





# Engineering GREAT solutions

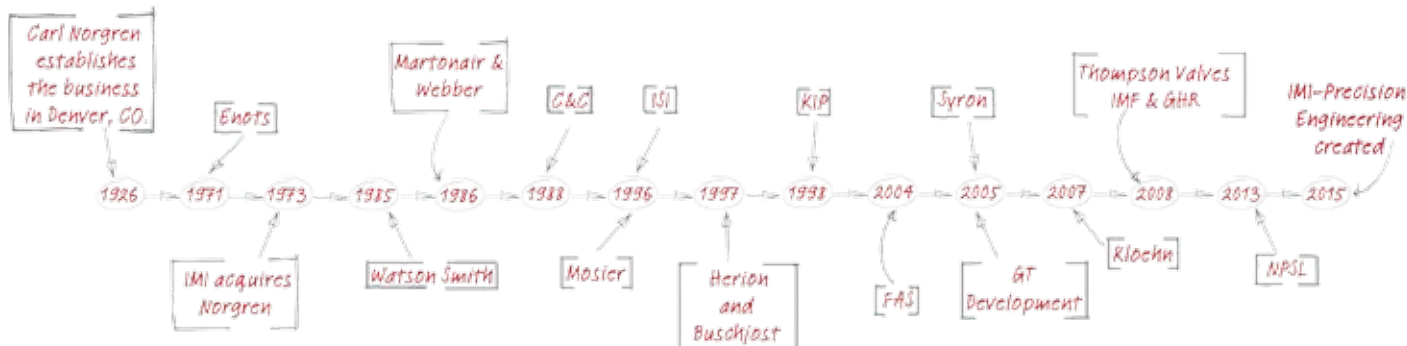
*We deliver GREAT solutions for our customers tackling the world's most demanding engineering challenges.*

**IMI Precision Engineering** is a world leader in motion and fluid control technologies. Wherever precision, speed and engineering reliability are essential, we deliver exceptional solutions which improve the productivity and efficiency of our customers' equipment.

Part of IMI plc, (listed on the London Stock Exchange since 1966), IMI Precision Engineering has \$1,214m in sales generated from a sales and service network in 75 countries, as well as manufacturing capabilities in the USA, Germany, China, UK, Switzerland, Czech Republic, Mexico and Brazil. We support this with our global centers of technical excellence and facilities for CFD design and R&D testing. We employ a dedicated team of field engineers, sector specialists and key account managers – all committed to providing excellent service to our customers.

As a business, we aim to UNDERSTAND our customers' challenges. We then CONNECT our products, people and expertise in order to DELIVER exceptional service and solutions. Together these actions IMPROVE the performance of our customers' machinery.

We call this Engineering Great. We deliver it to customers through a world-class portfolio of high performance products, and strong partnerships for problem-solving utilizing our global network of support.



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## Express Catalog

1.800.514.0129

[store.norgren.com/us](http://store.norgren.com/us)

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# How we deliver value to our customers

## Partnerships & problem solving

We have a global team of key account managers and over 400 highly experienced engineers – many with in-depth expertise of key industry sectors.

We recruit and develop the industry's top talent, offering the best training and exposure to world-class products and technologies with some of the world's leading businesses. The strong relationships we form combined with the experience we offer enable us to understand our customers' exact challenges and resolve them precisely.



## High performance products

Designed to meet precise industry and application needs, our world-class products are proven to improve service life and performance of equipment.

Our global manufacturing capability and technical centers of excellence are each dedicated to developing and rigorously testing new high performance products to meet specific industry and application needs. Helping improve performance and reduce downtime and energy consumption on production lines across the world, our world-class portfolio includes IMI Norgren, IMI Buschjost, IMI FAS, IMI Herion and IMI Maxseal. Having proven their value over the years, they stand amongst the most trusted names in fluid and motion control. We are continuously adding to this portfolio through a program of innovation and new product development.

Because of this, we're able to help our customers solve the world's greatest engineering challenges – reliability, safety and efficiency.

## Reliability

As a world leader in our industry, we deliver and support our high quality products through our global service network.

We have world-class manufacturing, sales and service operations in 75 countries, supported by investment in robust project management systems and lean localized production. Together, with our integrated supply chain, and the speed of our Express service, we have the systems, processes and support to deliver quality products and aftersales service precisely, reliably, in full and on time, anywhere.

## Americas distributor network

In the Americas, IMI Precision Engineering has over 50 dedicated and experienced distributors to ensure products and expertise are available on a local level.

*We get closer to our customers to understand their exact challenges.*

## MADE TO SAVE YOU TIME AND MONEY

[STORE.NORGREN.COM/US](http://STORE.NORGREN.COM/US)



YOUR TIME IS VALUABLE. SUPPLYING YOU WITH QUICK SOLUTIONS IS JUST ONE OF THE WAYS WE PROVIDE YOU WITH A COMPETITIVE ADVANTAGE.

- > Easy search, by complete or partial part number. Access over 10,000 stocked catalog items.
- > Intuitive browsing. Easy to use navigation helps you quickly find what you're looking for
- > Detailed product information, helping you with your decision-making
- > Cross-referencing for auxiliary products, making it easy to source all the products you need on the same visit
- > CAD drawings. Downloadable in 15 formats and 2 and 3D models
- > Data library. Thousands of data sheets in many languages, ready for you to download
- > Real-time pricing and availability
- > Create and save quotes
- > Quick basket facility to add up to 10 items with one click – ideal if you know the part numbers
- > Paste basket options, allowing you to copy large lists of items from your purchasing system, spreadsheet, email or word document

### ORDERING COULDN'T BE SIMPLER

- > Find your parts quickly with our intuitive systems
- > Order online securely 24/7, with instant email acknowledgment
- > We notify you the moment orders are shipped (often same or next day)





## AVAILABILITY. SPEED. EXPERTISE. EASY SELECTION, EASY ORDERING – FINDING THE PARTS YOU NEED IS SIMPLICITY ITSELF!

### Using the Express Catalog

The Express catalog includes a number of features designed to help you select and order the best parts, quickly and efficiently.

#### AVAILABILITY – AT A GLANCE

We've color-coded the product availability to save you time

- In stock
- ◆ Ships within one week

\* Under normal operational circumstances



### Part numbers & technical information

Each product page has a full listing of part numbers, a photo and summary of technical information – everything you need to order the right part.

### Need more than one product?

Our 'easy link' boxes lead you to associated and auxiliary products. We also supply helpful tips to guide your decision-making.

### Made to order actuators

We can assemble an actuator tailored to your exact requirements at short notice. Call or email us for more information.

### Live chat

Connect with us instantly at: [store.norgren.com/us](http://store.norgren.com/us).

### Sector expertise

We service sectors ranging from Energy and Rail, to Commercial Vehicle, Food & Beverage, Life Sciences and Industrial Automation.

### Speed of delivery

Most of our products are available for same day dispatch, and we operate a global engineering and sales network and back every single transaction with expert support, helping you keep your equipment running smoothly - wherever you are.

### Trusted product brands

Manufactured to the most demanding standards, our product ranges include KIP, Kloehn, Herion, Martonair, Buschjost, Lintra plus, Olympian, Excelon, Maxseal, Watson Smith, and Pneufit.

### Reliability

Our products are backed by an industry leading warranty.

# SWITCH TO IMI NORGREN WITH OUR **CONVERSION TOOL**

Let us help streamline your supply chain. Convert your pneumatic components by performing a part number search on our part conversion page at [store.norgren.com/us](http://store.norgren.com/us).

PART NUMBER CONVERSIONS AT YOUR FINGERTIPS



Not seeing results? Try stripping down your part number to its most basic form based on the part numbering scheme of your existing supplier. Our online tools and technical experts available by phone or available to chat online will help you build back your complete configuration.

Not finding an exact match? Call **1.800.514.0129** to set up a time with our technical experts to discuss one part number or a complete list. We are capable of converting products that appear anywhere in your pneumatic system!

# ACTUATORS

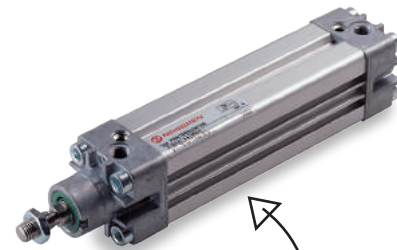
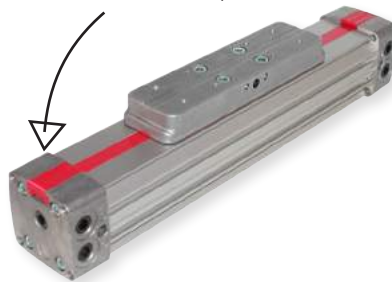


NFAA

Double acting,  
compact design



Rodless  
technology





ISO

IMI Precision Engineering offers one of the industry's most comprehensive line of pneumatic actuators. From 5/16" to 12" bores, NFAA, ISO, rodless, compacts, and many more. Choose from an assortment of construction materials. Made to order and custom applications are our specialty, and we provide quick turnaround.





# Fast Find Guide


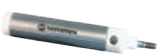
## NFPA ALUMINUM, STEEL, AND STAINLESS STEEL CYLINDERS

<p><b>NFPA A-Series</b> Aluminum Ø 1-1/2" to 4" -20°F to 200°F</p>  <p>ACT-04</p>	<p><b>NFPA J-Series</b> Steel Ø 1-1/2" to 4" -20°F to 200°F</p>  <p>ACT-14</p>	<p><b>NFPA Series SS</b> Stainless Steel Ø 1-1/2" to 4" -20°F to 200°F</p>  <p>ACT-24</p>	<p><b>Series N NFPA</b> Non-rotating 1-1/2" to 4" -20°F to 200°F</p>  <p>ACT-32</p>
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## ISO/VDMA CYLINDERS

<p><b>ISO/VDMA</b> Ø 32 to 100 mm</p>  <p>ACT-36</p>	<p><b>ISO/VDMA Profile</b> Ø 32 to 100 mm</p>  <p>ACT-38</p>
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## ROUNDLINE STAINLESS STEEL BODY

<p><b>Roundline Plus</b> Stainless Steel Ø 5/16" to 3" -20°F to 200°F</p>  <p>ACT-40</p>	<p><b>RPD Series Roundline Plus Acetal Resin caps</b> Ø 9/16" to 2" 32°F to 160°F</p>  <p>ACT-50</p>
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## F-SERIES PLUS COMPACT

**F-Series Plus**  
Ø 9/16" to 3"  
-40°F to 200°F



ACT-54

## LINTRA® PLUS RODLESS CYLINDERS

<p><b>LINTRA Plus</b> C/146000 Ø 25 to 63 mm -22°F to 176°F</p>  <p>ACT-57</p>	<p><b>LINTRA Plus</b> C/146100 Ø 25 to 63 mm -22°F to 176°F</p>  <p>ACT-57</p>
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## MAGNETICALLY OPERATED SWITCHES

**Magnetically operated**  
CS8, CS7, M50



ACT-62

**Magnetic piston standard**
**Non-cushion, adjustable, or fixed cushion**
**Impact dampening Ecology Seals optional**
**Ecology cylinders meet OSHA noise standards**
**NFPA interchangeable**

**Technical Data**
**Medium:**

Filtered compressed air to 250 PSI

**Operating temperature:**

-20°F to 200°F

**Operating Pressure:**

250 psig

**Bore Sizes:** 1-1/2", 2", 2-1/2", 3-1/4", 4"

**Lubrication:**

None required

**Materials**

Head and End Caps: Black anodized aluminum alloy

Tube: 1-1/2" to 4", Aluminum alloy, clear anodized O.D., hard coat anodized I.D..

Piston: Machined high-strength aluminum alloy.





Piston rod: hard chrome plated steel

Rod Bearing: oil impregnated sintered iron



Seals: Urethane rod seal/ wiper, nitrile piston seals, nitrile tube end seals

Tie Rods: high-tensile strength steel

**Accessories**

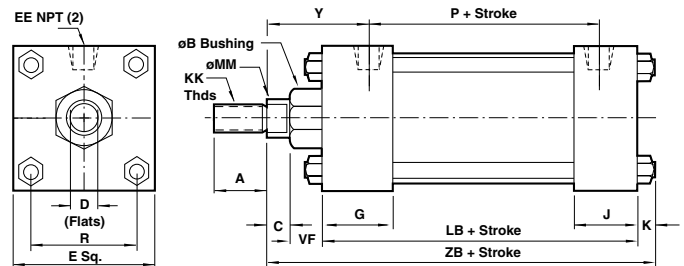
Bore	Rod eye	Rod clevis	Eye bracket	Rod alignment coupler
1-1/2"	 49015A ●	 49028A ●	 49021 ●	 CC-1-07 ●
2"	49015A ●	49028A ●	49021 ●	CC-1-07 ●
2-1/2"	49015A ●	49028A ●	49021 ●	CC-1-07 ●
3-1/4"	49013A ●	49030A ●	49020 ●	CC-1-12 ●
4"	49013A ●	49030A ●	49020 ●	CC-1-12 ●

**Switches**

Bore	Model	Type	Bore	Model	Type
3/4" – 2-1/2"	 CS8-2-04 ●	Reed	2" – 4"	 CS7-04 ●	Reed
3/4" – 2-1/2"	CS8-2-31 ●	Solid state (PNP)	2" – 4"	CS7-31 ●	Solid state (PNP)
3/4" – 2-1/2"	CS8-2-32 ●	Solid state (NPN)	2" – 4"	CS7-32 ●	Solid state (NPN)

**Dimensions in Inches**

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
ø Rod	5/8"	5/8"	5/8"	1"	1"
A	.750	.750	.750	1.125	1.125
C	.375	.375	.375	.500	.500
D	.500	.500	.500	.813	.813
E	2.000	2.500	3.000	3.750	4.500
EE	.375	.375	.375	.500	.500
G	1.500	1.500	1.500	1.750	1.750
J	1.000	1.000	1.000	1.250	1.250
K	.250	.313	.313	.375	.375
KK	7/16 – 20	7/16 – 20	7/16 – 20	3/4 – 16	3/4 – 16
LB	3.625	3.625	3.750	4.250	4.250
P	2.340	2.340	2.470	2.690	2.690
R	1.428	1.838	2.192	2.758	3.323
VF	.625	.625	.625	.875	.875
Y	1.840	1.840	1.840	2.380	2.380
ZB	4.875	4.938	5.063	6.000	6.000

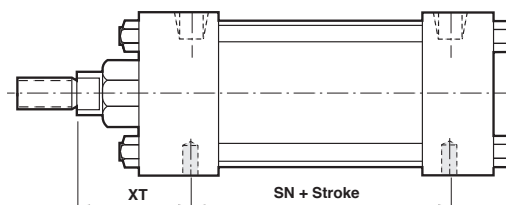
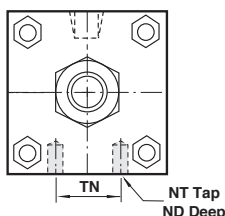


- In stock
- ◆ Ships within one week

Side Tapped (MS4) Non-cushioned







Dimensions in Inches

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
ND	0.375	0.375	0.5	0.75	0.75
NT	1/4-20	5/16-18	3/8-16	1/2-13	1/2-13
SN	2.25	2.25	2.375	2.625	2.625
TN	0.625	0.875	1.25	1.5	2.063
XT	1.938	1.938	1.938	2.438	2.438



Models

Accessories

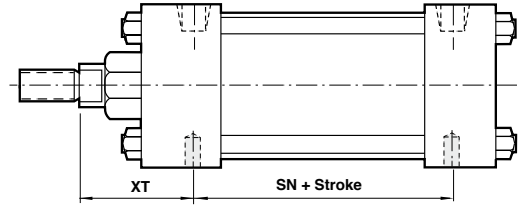
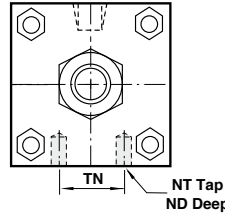
Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	Tube O.D.	Rod Bearing kit	Service kit	
										
A0133A1-1.50X1.000-PS	●	1-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
A0133A1-1.50X2.000-PS	●	1-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
A0133A1-1.50X3.000-PS	●	1-1/2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
A0133A1-1.50X4.000-PS	●	1-1/2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
A0133A1-1.50X5.000-PS	●	1-1/2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
A0133A1-1.50X6.000-PS	●	1-1/2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
A0133A1-1.50X8.000-PS	●	1-1/2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
A0133A1-1.50X10.000-PS	●	1-1/2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
A0133A1-1.50X12.000-PS	●	1-1/2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
A0133A1-2.00X1.000-PS	●	2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
A0133A1-2.00X2.000-PS	●	2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
A0133A1-2.00X3.000-PS	●	2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
A0133A1-2.00X4.000-PS	●	2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
A0133A1-2.00X5.000-PS	●	2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
A0133A1-2.00X6.000-PS	●	2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
A0133A1-2.00X8.000-PS	●	2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
A0133A1-2.00X10.000-PS	●	2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
A0133A1-2.00X12.000-PS	●	2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
A0133A1-2.50X1.000-PS	●	2-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
A0133A1-2.50X2.000-PS	●	2-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
A0133A1-2.50X3.000-PS	●	2-1/2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
A0133A1-2.50X4.000-PS	●	2-1/2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
A0133A1-2.50X5.000-PS	●	2-1/2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
A0133A1-2.50X6.000-PS	●	2-1/2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
A0133A1-2.50X8.000-PS	●	2-1/2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
A0133A1-2.50X10.000-PS	●	2-1/2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
A0133A1-2.50X12.000-PS	●	2-1/2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
A0133B1-3.25X1.000-PS	●	3-1/4	1	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
A0133B1-3.25X2.000-PS	●	3-1/4	2	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
A0133B1-3.25X3.000-PS	●	3-1/4	3	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
A0133B1-3.25X4.000-PS	●	3-1/4	4	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
A0133B1-3.25X5.000-PS	●	3-1/4	5	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
A0133B1-3.25X6.000-PS	●	3-1/4	6	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
A0133B1-3.25X8.000-PS	●	3-1/4	8	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
A0133B1-3.25X10.000-PS	●	3-1/4	10	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
A0133B1-3.25X12.000-PS	●	3-1/4	12	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
A0133B1-4.00X1.000-PS	●	4	1	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
A0133B1-4.00X2.000-PS	●	4	2	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
A0133B1-4.00X3.000-PS	●	4	3	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
A0133B1-4.00X4.000-PS	●	4	4	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
A0133B1-4.00X5.000-PS	●	4	5	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
A0133B1-4.00X6.000-PS	●	4	6	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
A0133B1-4.00X8.000-PS	●	4	8	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
A0133B1-4.00X10.000-PS	●	4	10	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
A0133B1-4.00X12.000-PS	●	4	12	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403

- In stock
- ◆ Ships within one week

**Side Tapped (MS4) Adjustable cushions**








**Dimensions in Inches**

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
ND	0.375	0.375	0.5	0.75	0.75
NT	1/4-20	5/16-18	3/8-16	1/2-13	1/2-13
SN	2.25	2.25	2.375	2.625	2.625
TN	0.625	0.875	1.25	1.5	2.063
XT	1.938	1.938	1.938	2.438	2.438



**Models**

**Accessories**

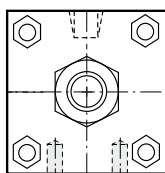
Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	Tube O.D.	Rod Bearing kit	Piston seal kit	Cushion seal kit
										
A0177A1-1.50X1.000-PS	1-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
A0177A1-1.50X2.000-PS	1-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
A0177A1-1.50X3.000-PS	1-1/2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
A0177A1-1.50X4.000-PS	1-1/2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
A0177A1-1.50X5.000-PS	1-1/2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
A0177A1-1.50X6.000-PS	1-1/2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
A0177A1-1.50X8.000-PS	1-1/2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
A0177A1-1.50X10.000-PS	1-1/2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
A0177A1-1.50X12.000-PS	1-1/2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
A0177A1-2.00X1.000-PS	2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
A0177A1-2.00X2.000-PS	2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
A0177A1-2.00X3.000-PS	2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
A0177A1-2.00X4.000-PS	2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
A0177A1-2.00X5.000-PS	2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
A0177A1-2.00X6.000-PS	2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
A0177A1-2.00X8.000-PS	2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
A0177A1-2.00X10.000-PS	2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
A0177A1-2.00X12.000-PS	2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
A0177A1-2.50X1.000-PS	2-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
A0177A1-2.50X2.000-PS	2-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
A0177A1-2.50X3.000-PS	2-1/2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
A0177A1-2.50X4.000-PS	2-1/2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
A0177A1-2.50X5.000-PS	2-1/2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
A0177A1-2.50X6.000-PS	2-1/2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
A0177A1-2.50X8.000-PS	2-1/2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
A0177A1-2.50X10.000-PS	2-1/2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
A0177A1-2.50X12.000-PS	2-1/2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
A0177B1-3.25X1.000-PS	3-1/4	1	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
A0177B1-3.25X2.000-PS	3-1/4	2	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
A0177B1-3.25X3.000-PS	3-1/4	3	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
A0177B1-3.25X4.000-PS	3-1/4	4	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
A0177B1-3.25X5.000-PS	3-1/4	5	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
A0177B1-3.25X6.000-PS	3-1/4	6	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
A0177B1-3.25X8.000-PS	3-1/4	8	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
A0177B1-3.25X10.000-PS	3-1/4	10	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
A0177B1-3.25X12.000-PS	3-1/4	12	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
A0177B1-4.00X1.000-PS	4	1	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
A0177B1-4.00X2.000-PS	4	2	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
A0177B1-4.00X3.000-PS	4	3	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
A0177B1-4.00X4.000-PS	4	4	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
A0177B1-4.00X5.000-PS	4	5	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
A0177B1-4.00X6.000-PS	4	6	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
A0177B1-4.00X8.000-PS	4	8	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
A0177B1-4.00X10.000-PS	4	10	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
A0177B1-4.00X12.000-PS	4	12	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23

- In stock
- ◆ Ships within one week

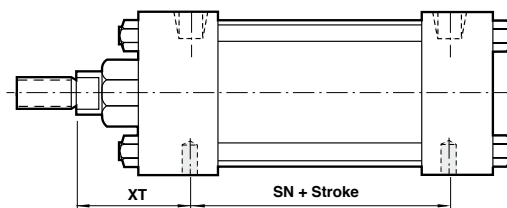
Side Tapped (MS4) With Impact Dampening Ecology Seals, fixed cushion

Dimensions in Inches

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
ND	0.375	0.375	0.5	0.75	0.75
NT	1/4-20	5/16-18	3/8-16	1/2-13	1/2-13
SN	2.25	2.25	2.375	2.625	2.625
TN	0.625	0.875	1.25	1.5	2.063
XT	1.938	1.938	1.938	2.438	2.438




NT Tap  
ND Deep



Models

Accessories

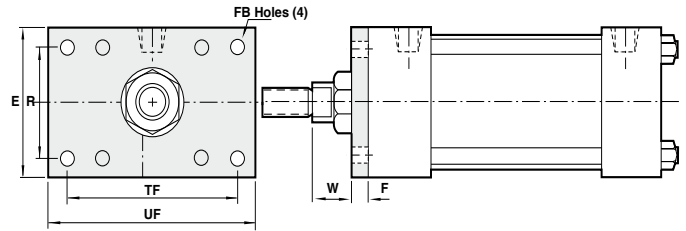
Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	Tube O.D.	Rod Bearing kit	Piston seal kit	Cushion seal kit	
 EA0155A1-1.50X1.000-PS	●	1-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EA0155A1-1.50X2.000-PS	●	1-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EA0155A1-1.50X3.000-PS	●	1-1/2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EA0155A1-1.50X4.000-PS	●	1-1/2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EA0155A1-1.50X5.000-PS	●	1-1/2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EA0155A1-1.50X6.000-PS	●	1-1/2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EA0155A1-1.50X8.000-PS	●	1-1/2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EA0155A1-1.50X10.000-PS	●	1-1/2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EA0155A1-1.50X12.000-PS	●	1-1/2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EA0155A1-2.00X1.000-PS	●	2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EA0155A1-2.00X2.000-PS	●	2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EA0155A1-2.00X3.000-PS	●	2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EA0155A1-2.00X4.000-PS	●	2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EA0155A1-2.00X5.000-PS	●	2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EA0155A1-2.00X6.000-PS	●	2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EA0155A1-2.00X8.000-PS	●	2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EA0155A1-2.00X10.000-PS	●	2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EA0155A1-2.00X12.000-PS	●	2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EA0155A1-2.50X1.000-PS	●	2-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EA0155A1-2.50X2.000-PS	●	2-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EA0155A1-2.50X3.000-PS	●	2-1/2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EA0155A1-2.50X4.000-PS	●	2-1/2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EA0155A1-2.50X5.000-PS	●	2-1/2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EA0155A1-2.50X6.000-PS	●	2-1/2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EA0155A1-2.50X8.000-PS	●	2-1/2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EA0155A1-2.50X10.000-PS	●	2-1/2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EA0155A1-2.50X12.000-PS	●	2-1/2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EA0155B1-3.25X1.000-PS	●	3-1/4	1	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EA0155B1-3.25X2.000-PS	●	3-1/4	2	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EA0155B1-3.25X3.000-PS	●	3-1/4	3	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EA0155B1-3.25X4.000-PS	●	3-1/4	4	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EA0155B1-3.25X5.000-PS	●	3-1/4	5	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EA0155B1-3.25X6.000-PS	●	3-1/4	6	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EA0155B1-3.25X8.000-PS	●	3-1/4	8	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EA0155B1-3.25X10.000-PS	●	3-1/4	10	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EA0155B1-3.25X12.000-PS	●	3-1/4	12	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EA0155B1-4.00X1.000-PS	●	4	1	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EA0155B1-4.00X2.000-PS	●	4	2	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EA0155B1-4.00X3.000-PS	●	4	3	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EA0155B1-4.00X4.000-PS	●	4	4	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EA0155B1-4.00X5.000-PS	●	4	5	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EA0155B1-4.00X6.000-PS	●	4	6	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EA0155B1-4.00X8.000-PS	●	4	8	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EA0155B1-4.00X10.000-PS	●	4	10	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EA0155B1-4.00X12.000-PS	●	4	12	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23

- In stock
- ◆ Ships within one week

**Front Flange (MF1) Non-cushioned**







**Dimensions in Inches**

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
E	2	2.5	3	3.75	4.5
F	0.375	0.375	0.375	0.625	0.625
FB	0.313	0.375	0.375	0.438	0.438
R	1.428	1.838	2.192	2.758	3.323
TF	2.75	3.375	3.875	4.688	5.438
UF	3.375	4.125	4.625	5.5	6.25
W	0.625	0.625	0.625	0.75	0.75



**Models**

**Accessories**

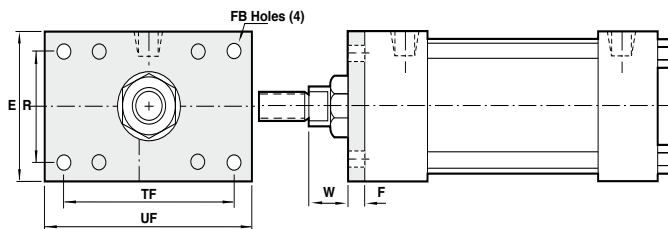
Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	Tube O.D.	Rod Bearing kit	Piston seal kit
									
A0333A1-1.50X1.000-PS	● 1-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
A0333A1-1.50X2.000-PS	● 1-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
A0333A1-1.50X3.000-PS	● 1-1/2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
A0333A1-1.50X4.000-PS	● 1-1/2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
A0333A1-1.50X5.000-PS	● 1-1/2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
A0333A1-1.50X6.000-PS	● 1-1/2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
A0333A1-1.50X8.000-PS	● 1-1/2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
A0333A1-1.50X10.000-PS	● 1-1/2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
A0333A1-1.50X12.000-PS	● 1-1/2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
A0333A1-2.00X1.000-PS	● 2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
A0333A1-2.00X2.000-PS	● 2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
A0333A1-2.00X3.000-PS	● 2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
A0333A1-2.00X4.000-PS	● 2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
A0333A1-2.00X5.000-PS	● 2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
A0333A1-2.00X6.000-PS	● 2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
A0333A1-2.00X8.000-PS	● 2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
A0333A1-2.00X10.000-PS	● 2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
A0333A1-2.00X12.000-PS	● 2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
A0333A1-2.50X1.000-PS	● 2-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
A0333A1-2.50X2.000-PS	● 2-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
A0333A1-2.50X3.000-PS	● 2-1/2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
A0333A1-2.50X4.000-PS	● 2-1/2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
A0333A1-2.50X5.000-PS	● 2-1/2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
A0333A1-2.50X6.000-PS	● 2-1/2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
A0333A1-2.50X8.000-PS	● 2-1/2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
A0333A1-2.50X10.000-PS	● 2-1/2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
A0333A1-2.50X12.000-PS	● 2-1/2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
A0333B1-3.25X1.000-PS	● 3-1/4	1	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
A0333B1-3.25X2.000-PS	● 3-1/4	2	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
A0333B1-3.25X3.000-PS	● 3-1/4	3	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
A0333B1-3.25X4.000-PS	● 3-1/4	4	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
A0333B1-3.25X5.000-PS	● 3-1/4	5	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
A0333B1-3.25X6.000-PS	● 3-1/4	6	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
A0333B1-3.25X8.000-PS	● 3-1/4	8	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
A0333B1-3.25X10.000-PS	● 3-1/4	10	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
A0333B1-3.25X12.000-PS	● 3-1/4	12	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
A0333B1-4.00X1.000-PS	● 4	1	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
A0333B1-4.00X2.000-PS	● 4	2	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
A0333B1-4.00X3.000-PS	● 4	3	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
A0333B1-4.00X4.000-PS	● 4	4	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
A0333B1-4.00X5.000-PS	● 4	5	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
A0333B1-4.00X6.000-PS	● 4	6	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
A0333B1-4.00X8.000-PS	● 4	8	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
A0333B1-4.00X10.000-PS	● 4	10	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
A0333B1-4.00X12.000-PS	● 4	12	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403

- In stock
- ◆ Ships within one week

Front Flange (MF1) Adjustable Cushions


Dimensions in Inches

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
E	2	2.5	3	3.75	4.5
F	0.375	0.375	0.375	0.625	0.625
FB	0.313	0.375	0.375	0.438	0.438
R	1.428	1.838	2.192	2.758	3.323
TF	2.75	3.375	3.875	4.688	5.438
UF	3.375	4.125	4.625	5.5	6.25
W	0.625	0.625	0.625	0.75	0.75



Models

Accessories

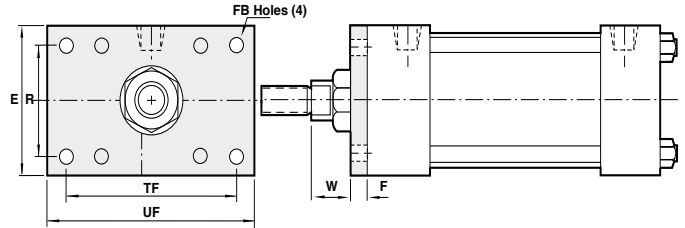
Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	Tube O.D.	Rod Bearing kit	Piston seal kit	Cushion seal kit	
 A0377A1-1.50X1.000-PS	●	1-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
A0377A1-1.50X2.000-PS	●	1-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
A0377A1-1.50X3.000-PS	●	1-1/2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
A0377A1-1.50X4.000-PS	●	1-1/2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
A0377A1-1.50X5.000-PS	●	1-1/2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
A0377A1-1.50X6.000-PS	●	1-1/2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
A0377A1-1.50X8.000-PS	●	1-1/2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
A0377A1-1.50X10.000-PS	●	1-1/2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
A0377A1-1.50X12.000-PS	●	1-1/2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
A0377A1-2.00X1.000-PS	●	2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
A0377A1-2.00X2.000-PS	●	2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
A0377A1-2.00X3.000-PS	●	2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
A0377A1-2.00X4.000-PS	●	2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
A0377A1-2.00X5.000-PS	●	2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
A0377A1-2.00X6.000-PS	●	2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
A0377A1-2.00X8.000-PS	●	2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
A0377A1-2.00X10.000-PS	●	2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
A0377A1-2.00X12.000-PS	●	2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
A0377A1-2.50X1.000-PS	●	2-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
A0377A1-2.50X2.000-PS	●	2-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
A0377A1-2.50X3.000-PS	●	2-1/2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
A0377A1-2.50X4.000-PS	●	2-1/2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
A0377A1-2.50X5.000-PS	●	2-1/2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
A0377A1-2.50X6.000-PS	●	2-1/2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
A0377A1-2.50X8.000-PS	●	2-1/2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
A0377A1-2.50X10.000-PS	●	2-1/2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
A0377A1-2.50X12.000-PS	●	2-1/2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
A0377B1-3.25X1.000-PS	●	3-1/4	1	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
A0377B1-3.25X2.000-PS	●	3-1/4	2	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
A0377B1-3.25X3.000-PS	●	3-1/4	3	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
A0377B1-3.25X4.000-PS	●	3-1/4	4	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
A0377B1-3.25X5.000-PS	●	3-1/4	5	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
A0377B1-3.25X6.000-PS	●	3-1/4	6	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
A0377B1-3.25X8.000-PS	●	3-1/4	8	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
A0377B1-3.25X10.000-PS	●	3-1/4	10	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
A0377B1-3.25X12.000-PS	●	3-1/4	12	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
A0377B1-4.00X1.000-PS	●	4	1	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
A0377B1-4.00X2.000-PS	●	4	2	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
A0377B1-4.00X3.000-PS	●	4	3	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
A0377B1-4.00X4.000-PS	●	4	4	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
A0377B1-4.00X5.000-PS	●	4	5	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
A0377B1-4.00X6.000-PS	●	4	6	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
A0377B1-4.00X8.000-PS	●	4	8	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
A0377B1-4.00X10.000-PS	●	4	10	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
A0377B1-4.00X12.000-PS	●	4	12	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23

- In stock
- ◆ Ships within one week

**Front Flange Mount (MF1) With Impact Dampening Ecology Seals and fixed cushion**









**Dimensions in Inches**

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
E	2	2.5	3	3.75	4.5
F	0.375	0.375	0.375	0.625	0.625
FB	0.313	0.375	0.375	0.438	0.438
R	1.428	1.838	2.192	2.758	3.323
TF	2.75	3.375	3.875	4.688	5.438
UF	3.375	4.125	4.625	5.5	6.25
W	0.625	0.625	0.625	0.75	0.75



**Models**

**Accessories**

Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	Tube O.D.	Rod Bearing kit	Piston seal kit	Cushion seal kit	
											
EA0355A1-1.50X1.000-PS	●	1-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EA0355A1-1.50X2.000-PS	●	1-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EA0355A1-1.50X3.000-PS	●	1-1/2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EA0355A1-1.50X4.000-PS	●	1-1/2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EA0355A1-1.50X5.000-PS	●	1-1/2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EA0355A1-1.50X6.000-PS	●	1-1/2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EA0355A1-1.50X8.000-PS	●	1-1/2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EA0355A1-1.50X10.000-PS	●	1-1/2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EA0355A1-1.50X12.000-PS	●	1-1/2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EA0355A1-2.00X1.000-PS	●	2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EA0355A1-2.00X2.000-PS	●	2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EA0355A1-2.00X3.000-PS	●	2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EA0355A1-2.00X4.000-PS	●	2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EA0355A1-2.00X5.000-PS	●	2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EA0355A1-2.00X6.000-PS	●	2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EA0355A1-2.00X8.000-PS	●	2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EA0355A1-2.00X10.000-PS	●	2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EA0355A1-2.00X12.000-PS	●	2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EA0355A1-2.50X1.000-PS	●	2-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EA0355A1-2.50X2.000-PS	●	2-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EA0355A1-2.50X3.000-PS	●	2-1/2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EA0355A1-2.50X4.000-PS	●	2-1/2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EA0355A1-2.50X5.000-PS	●	2-1/2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EA0355A1-2.50X6.000-PS	●	2-1/2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EA0355A1-2.50X8.000-PS	●	2-1/2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EA0355A1-2.50X10.000-PS	●	2-1/2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EA0355A1-2.50X12.000-PS	●	2-1/2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EA0355B1-3.25X1.000-PS	●	3-1/4	1	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EA0355B1-3.25X2.000-PS	●	3-1/4	2	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EA0355B1-3.25X3.000-PS	●	3-1/4	3	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EA0355B1-3.25X4.000-PS	●	3-1/4	4	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EA0355B1-3.25X5.000-PS	●	3-1/4	5	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EA0355B1-3.25X6.000-PS	●	3-1/4	6	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EA0355B1-3.25X8.000-PS	●	3-1/4	8	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EA0355B1-3.25X10.000-PS	●	3-1/4	10	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EA0355B1-3.25X12.000-PS	●	3-1/4	12	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EA0355B1-4.00X1.000-PS	●	4	1	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EA0355B1-4.00X2.000-PS	●	4	2	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EA0355B1-4.00X3.000-PS	●	4	3	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EA0355B1-4.00X4.000-PS	●	4	4	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EA0355B1-4.00X5.000-PS	●	4	5	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EA0355B1-4.00X6.000-PS	●	4	6	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EA0355B1-4.00X8.000-PS	●	4	8	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EA0355B1-4.00X10.000-PS	●	4	10	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EA0355B1-4.00X12.000-PS	●	4	12	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23

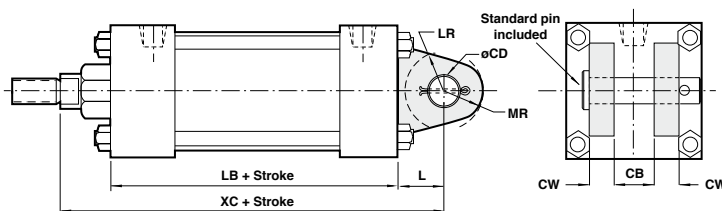
- In stock
- ◆ Ships within one week



Fixed Cap Clevis Mount (MP1) Non-cushioned







Dimensions in Inches

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
CB	0.75	0.75	0.75	1.25	1.25
CD	0.5	0.5	0.5	0.75	0.75
CW	0.5	0.5	0.5	0.625	0.625
L	0.75	0.75	0.75	1.25	1.25
LB	3.625	3.625	3.75	4.25	4.25
LR	0.75	0.75	0.75	1.25	1.25
MR	0.625	0.625	0.625	0.938	0.938
XC	5.375	5.375	5.5	6.875	6.875



Models

Accessories

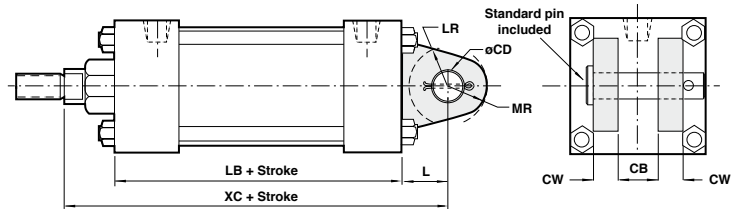
Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	Tube O.D.	Rod Bearing kit	Piston seal kit	
										
A1233A1-1.50X1.000-PS	●	1-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
A1233A1-1.50X2.000-PS	●	1-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
A1233A1-1.50X3.000-PS	●	1-1/2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
A1233A1-1.50X4.000-PS	●	1-1/2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
A1233A1-1.50X5.000-PS	●	1-1/2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
A1233A1-1.50X6.000-PS	●	1-1/2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
A1233A1-1.50X8.000-PS	●	1-1/2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
A1233A1-1.50X10.000-PS	●	1-1/2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
A1233A1-1.50X12.000-PS	●	1-1/2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
A1233A1-2.00X1.000-PS	●	2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
A1233A1-2.00X2.000-PS	●	2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
A1233A1-2.00X3.000-PS	●	2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
A1233A1-2.00X4.000-PS	●	2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
A1233A1-2.00X5.000-PS	●	2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
A1233A1-2.00X6.000-PS	●	2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
A1233A1-2.00X8.000-PS	●	2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
A1233A1-2.00X10.000-PS	●	2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
A1233A1-2.00X12.000-PS	●	2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
A1233A1-2.50X1.000-PS	●	2-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
A1233A1-2.50X2.000-PS	●	2-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
A1233A1-2.50X3.000-PS	●	2-1/2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
A1233A1-2.50X4.000-PS	●	2-1/2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
A1233A1-2.50X5.000-PS	●	2-1/2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
A1233A1-2.50X6.000-PS	●	2-1/2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
A1233A1-2.50X8.000-PS	●	2-1/2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
A1233A1-2.50X10.000-PS	●	2-1/2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
A1233A1-2.50X12.000-PS	●	2-1/2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
A1233B1-3.25X1.000-PS	●	3-1/4	1	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
A1233B1-3.25X2.000-PS	●	3-1/4	2	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
A1233B1-3.25X3.000-PS	●	3-1/4	3	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
A1233B1-3.25X4.000-PS	●	3-1/4	4	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
A1233B1-3.25X5.000-PS	●	3-1/4	5	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
A1233B1-3.25X6.000-PS	●	3-1/4	6	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
A1233B1-3.25X8.000-PS	●	3-1/4	8	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
A1233B1-3.25X10.000-PS	●	3-1/4	10	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
A1233B1-3.25X12.000-PS	●	3-1/4	12	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
A1233B1-4.00X1.000-PS	●	4	1	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
A1233B1-4.00X2.000-PS	●	4	2	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
A1233B1-4.00X3.000-PS	●	4	3	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
A1233B1-4.00X4.000-PS	●	4	4	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
A1233B1-4.00X5.000-PS	●	4	5	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
A1233B1-4.00X6.000-PS	●	4	6	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
A1233B1-4.00X8.000-PS	●	4	8	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
A1233B1-4.00X10.000-PS	●	4	10	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
A1233B1-4.00X12.000-PS	●	4	12	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403

- In stock
- ◆ Ships within one week

**Fixed Cap Clevis Mount (MP1) Adjustable Cushions**








**Dimensions in Inches**

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
CB	0.75	0.75	0.75	1.25	1.25
CD	0.5	0.5	0.5	0.75	0.75
CW	0.5	0.5	0.5	0.625	0.625
L	0.75	0.75	0.75	1.25	1.25
LB	3.625	3.625	3.75	4.25	4.25
LR	0.75	0.75	0.75	1.25	1.25
MR	0.625	0.625	0.625	0.938	0.938
XC	5.375	5.375	5.5	6.875	6.875



**Models**

**Accessories**

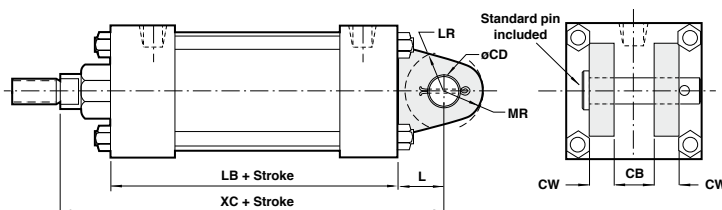
Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	Tube O.D.	Rod Bearing kit	Piston seal kit	Cushion seal kit
										
A1277A1-1.50X1.000-PS	● 1-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
A1277A1-1.50X2.000-PS	● 1-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
A1277A1-1.50X3.000-PS	● 1-1/2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
A1277A1-1.50X4.000-PS	● 1-1/2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
A1277A1-1.50X5.000-PS	● 1-1/2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
A1277A1-1.50X6.000-PS	● 1-1/2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
A1277A1-1.50X8.000-PS	● 1-1/2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
A1277A1-1.50X10.000-PS	● 1-1/2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
A1277A1-1.50X12.000-PS	● 1-1/2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
A1277A1-2.00X1.000-PS	● 2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
A1277A1-2.00X2.000-PS	● 2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
A1277A1-2.00X3.000-PS	● 2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
A1277A1-2.00X4.000-PS	● 2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
A1277A1-2.00X5.000-PS	● 2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
A1277A1-2.00X6.000-PS	● 2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
A1277A1-2.00X8.000-PS	● 2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
A1277A1-2.00X10.000-PS	● 2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
A1277A1-2.00X12.000-PS	● 2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
A1277A1-2.50X1.000-PS	● 2-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
A1277A1-2.50X2.000-PS	● 2-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
A1277A1-2.50X3.000-PS	● 2-1/2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
A1277A1-2.50X4.000-PS	● 2-1/2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
A1277A1-2.50X5.000-PS	● 2-1/2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
A1277A1-2.50X6.000-PS	● 2-1/2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
A1277A1-2.50X8.000-PS	● 2-1/2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
A1277A1-2.50X10.000-PS	● 2-1/2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
A1277A1-2.50X12.000-PS	● 2-1/2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
A1277B1-3.25X1.000-PS	● 3-1/4	1	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
A1277B1-3.25X2.000-PS	● 3-1/4	2	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
A1277B1-3.25X3.000-PS	● 3-1/4	3	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
A1277B1-3.25X4.000-PS	● 3-1/4	4	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
A1277B1-3.25X5.000-PS	● 3-1/4	5	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
A1277B1-3.25X6.000-PS	● 3-1/4	6	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
A1277B1-3.25X8.000-PS	● 3-1/4	8	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
A1277B1-3.25X10.000-PS	● 3-1/4	10	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
A1277B1-3.25X12.000-PS	● 3-1/4	12	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
A1277B1-4.00X1.000-PS	● 4	1	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
A1277B1-4.00X2.000-PS	● 4	2	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
A1277B1-4.00X3.000-PS	● 4	3	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
A1277B1-4.00X4.000-PS	● 4	4	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
A1277B1-4.00X5.000-PS	● 4	5	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
A1277B1-4.00X6.000-PS	● 4	6	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
A1277B1-4.00X8.000-PS	● 4	8	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
A1277B1-4.00X10.000-PS	● 4	10	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
A1277B1-4.00X12.000-PS	● 4	12	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23

- In stock
- ◆ Ships within one week

Fixed Cap Clevis Mount (MP1) With Impact Dampening Ecology Seals and fixed cushion








Dimensions in Inches

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
CB	0.75	0.75	0.75	1.25	1.25
CD	0.5	0.5	0.5	0.75	0.75
CW	0.5	0.5	0.5	0.625	0.625
L	0.75	0.75	0.75	1.25	1.25
LB	3.625	3.625	3.75	4.25	4.25
LR	0.75	0.75	0.75	1.25	1.25
MR	0.625	0.625	0.625	0.938	0.938
XC	5.375	5.375	5.5	6.875	6.875



Models

Accessories

Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	Tube O.D.	Rod Bearing kit	Piston seal kit	Cushion seal kit	
											
EA1255A1-1.50X1.000-PS	●	1-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EA1255A1-1.50X2.000-PS	●	1-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EA1255A1-1.50X3.000-PS	●	1-1/2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EA1255A1-1.50X4.000-PS	●	1-1/2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EA1255A1-1.50X5.000-PS	●	1-1/2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EA1255A1-1.50X6.000-PS	●	1-1/2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EA1255A1-1.50X8.000-PS	●	1-1/2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EA1255A1-1.50X10.000-PS	●	1-1/2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EA1255A1-1.50X12.000-PS	●	1-1/2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EA1255A1-2.00X1.000-PS	●	2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EA1255A1-2.00X2.000-PS	●	2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EA1255A1-2.00X3.000-PS	●	2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EA1255A1-2.00X4.000-PS	●	2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EA1255A1-2.00X5.000-PS	●	2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EA1255A1-2.00X6.000-PS	●	2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EA1255A1-2.00X8.000-PS	●	2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EA1255A1-2.00X10.000-PS	●	2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EA1255A1-2.00X12.000-PS	●	2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EA1255A1-2.50X1.000-PS	●	2-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EA1255A1-2.50X2.000-PS	●	2-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EA1255A1-2.50X3.000-PS	●	2-1/2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EA1255A1-2.50X4.000-PS	●	2-1/2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EA1255A1-2.50X5.000-PS	●	2-1/2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EA1255A1-2.50X6.000-PS	●	2-1/2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EA1255A1-2.50X8.000-PS	●	2-1/2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EA1255A1-2.50X10.000-PS	●	2-1/2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EA1255A1-2.50X12.000-PS	●	2-1/2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EA1255B1-3.25X1.000-PS	●	3-1/4	1	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EA1255B1-3.25X2.000-PS	●	3-1/4	2	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EA1255B1-3.25X3.000-PS	●	3-1/4	3	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EA1255B1-3.25X4.000-PS	●	3-1/4	4	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EA1255B1-3.25X5.000-PS	●	3-1/4	5	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EA1255B1-3.25X6.000-PS	●	3-1/4	6	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EA1255B1-3.25X8.000-PS	●	3-1/4	8	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EA1255B1-3.25X10.000-PS	●	3-1/4	10	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EA1255B1-3.25X12.000-PS	●	3-1/4	12	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EA1255B1-4.00X1.000-PS	●	4	1	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EA1255B1-4.00X2.000-PS	●	4	2	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EA1255B1-4.00X3.000-PS	●	4	3	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EA1255B1-4.00X4.000-PS	●	4	4	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EA1255B1-4.00X5.000-PS	●	4	5	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EA1255B1-4.00X6.000-PS	●	4	6	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EA1255B1-4.00X8.000-PS	●	4	8	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EA1255B1-4.00X10.000-PS	●	4	10	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EA1255B1-4.00X12.000-PS	●	4	12	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23

- In stock
- ◆ Ships within one week

**Non-cushion, adjustable, or fixed cushion**  
**Impact dampening Ecology Seals optional**  
**Ecology cylinders meet OSHA noise standards**  
**NFPA interchangeable**



### Technical Data

#### Medium:

Filtered compressed air to 250 PSI

#### Operating temperature:

-20°F to 200°F

#### Operating Pressure:

250 psig

**Bore Sizes:** 1-1/2", 2", 2-1/2", 3-1/4", 4"

#### Lubrication:

None required

#### Materials

Head and End Caps: Precision machined steel

Tube: 1-1/2" to 2-1/2" aluminum, clear anodized O.D., Hard coat anodized I.D. 3-1/4" and 4" Steel tube, hard chrome plated I.D.

Piston: Steel





Piston rod: hard chrome plated steel

Rod Bearing: oil impregnated sintered iron

Seals: Urethane rod seal/ wiper, nitrile piston seals, nitrile tube end seals

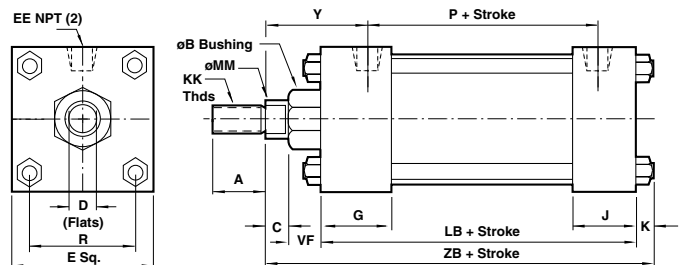
Tie Rods: high-tensile strength steel

### Accessories

Bore	Rod eye	Rod clevis	Eye bracket	Rod alignment coupler
1-1/2"	 49015A ●	 49028A ●	 49021 ●	 CC-1-07 ●
2"	49015A ●	49028A ●	49021 ●	CC-1-07 ●
2-1/2"	49015A ●	49028A ●	49021 ●	CC-1-07 ●
3-1/4"	49013A ●	49030A ●	49020 ●	CC-1-12 ●
4"	49013A ●	49030A ●	49020 ●	CC-1-12 ●

### Dimensions in Inches

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
ø Rod	5/8"	5/8"	5/8"	1"	1"
A	.750	.750	.750	1.125	1.125
C	.375	.375	.375	.500	.500
D	.500	.500	.500	.813	.813
E	2.000	2.500	3.000	3.750	4.500
EE	.375	.375	.375	.500	.500
G	1.500	1.500	1.500	1.750	1.750
J	1.000	1.000	1.000	1.250	1.250
K	.250	.313	.313	.375	.375
KK	7/16 – 20	7/16 – 20	7/16 – 20	3/4 – 16	3/4 – 16
LB	3.625	3.625	3.750	4.250	4.250
P	2.340	2.340	2.470	2.690	2.690
R	1.428	1.838	2.192	2.758	3.323
VF	.625	.625	.625	.875	.875
Y	1.840	1.840	1.840	2.380	2.380
ZB	4.875	4.938	5.063	6.000	6.000

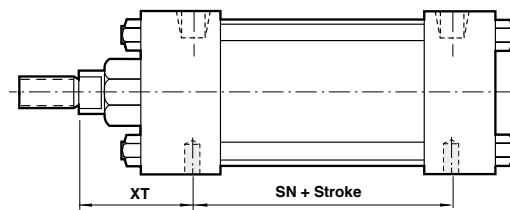
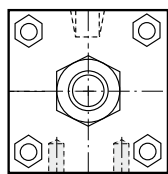


- In stock
- ◆ Ships within one week

Side Tapped (MS4) Non-cushioned







Dimensions in Inches

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
ND	0.375	0.375	0.5	0.75	0.75
NT	1/4-20	5/16-18	3/8-16	1/2-13	1/2-13
SN	2.25	2.25	2.375	2.625	2.625
TN	0.625	0.875	1.25	1.5	2.063
XT	1.938	1.938	1.938	2.438	2.438



Models

Accessories

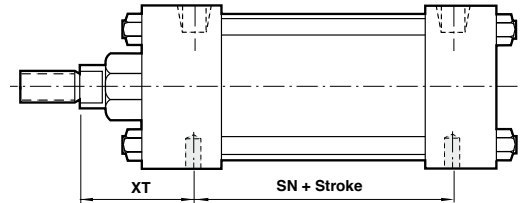
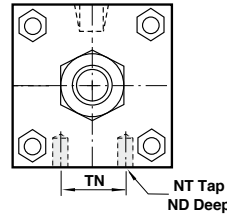
Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	Tube O.D.	Rod Bearing kit	Piston seal kit	
										
J0133A1-1.50X1.000	●	1-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
J0133A1-1.50X2.000	●	1-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
J0133A1-1.50X3.000	●	1-1/2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
J0133A1-1.50X4.000	●	1-1/2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
J0133A1-1.50X5.000	●	1-1/2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
J0133A1-1.50X6.000	●	1-1/2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
J0133A1-1.50X8.000	●	1-1/2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
J0133A1-1.50X10.000	●	1-1/2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
J0133A1-1.50X12.000	●	1-1/2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
J0133A1-2.00X1.000	●	2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
J0133A1-2.00X2.000	●	2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
J0133A1-2.00X3.000	●	2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
J0133A1-2.00X4.000	●	2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
J0133A1-2.00X5.000	●	2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
J0133A1-2.00X6.000	●	2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
J0133A1-2.00X8.000	●	2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
J0133A1-2.00X10.000	●	2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
J0133A1-2.00X12.000	●	2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
J0133A1-2.50X1.000	●	2-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
J0133A1-2.50X2.000	●	2-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
J0133A1-2.50X3.000	●	2-1/2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
J0133A1-2.50X4.000	●	2-1/2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
J0133A1-2.50X5.000	●	2-1/2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
J0133A1-2.50X6.000	●	2-1/2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
J0133A1-2.50X8.000	●	2-1/2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
J0133A1-2.50X10.000	●	2-1/2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
J0133A1-2.50X12.000	●	2-1/2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
J0133B1-3.25X1.000	●	3-1/4	1	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
J0133B1-3.25X2.000	●	3-1/4	2	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
J0133B1-3.25X3.000	●	3-1/4	3	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
J0133B1-3.25X4.000	●	3-1/4	4	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
J0133B1-3.25X5.000	●	3-1/4	5	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
J0133B1-3.25X6.000	●	3-1/4	6	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
J0133B1-3.25X8.000	●	3-1/4	8	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
J0133B1-3.25X10.000	●	3-1/4	10	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
J0133B1-3.25X12.000	●	3-1/4	12	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
J0133B1-4.00X1.000	●	4	1	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
J0133B1-4.00X2.000	●	4	2	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
J0133B1-4.00X3.000	●	4	3	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
J0133B1-4.00X4.000	●	4	4	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
J0133B1-4.00X5.000	●	4	5	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
J0133B1-4.00X6.000	●	4	6	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
J0133B1-4.00X8.000	●	4	8	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
J0133B1-4.00X10.000	●	4	10	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
J0133B1-4.00X12.000	●	4	12	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403

- In stock
- ◆ Ships within one week

**Side Tapped (MS4) Adjustable cushions**








**Dimensions in Inches**

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
ND	0.375	0.375	0.5	0.75	0.75
NT	1/4-20	5/16-18	3/8-16	1/2-13	1/2-13
SN	2.25	2.25	2.375	2.625	2.625
TN	0.625	0.875	1.25	1.5	2.063
XT	1.938	1.938	1.938	2.438	2.438



**Models**

**Accessories**

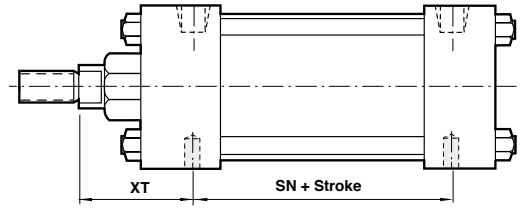
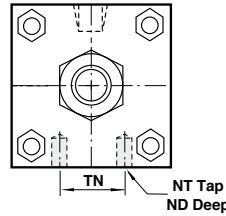
Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	Tube O.D.	Rod Bearing kit	Piston seal kit	Cushion seal kit
 J0177A1-1.50X1.000	● 1-1/2	1	3/8				3/8			
J0177A1-1.50X2.000	● 1-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
J0177A1-1.50X3.000	● 1-1/2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
J0177A1-1.50X4.000	● 1-1/2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
J0177A1-1.50X5.000	● 1-1/2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
J0177A1-1.50X6.000	● 1-1/2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
J0177A1-1.50X8.000	● 1-1/2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
J0177A1-1.50X10.000	● 1-1/2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
J0177A1-1.50X12.000	● 1-1/2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
J0177A1-2.00X1.000	● 2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
J0177A1-2.00X2.000	● 2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
J0177A1-2.00X3.000	● 2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
J0177A1-2.00X4.000	● 2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
J0177A1-2.00X5.000	● 2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
J0177A1-2.00X6.000	● 2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
J0177A1-2.00X8.000	● 2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
J0177A1-2.00X10.000	● 2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
J0177A1-2.00X12.000	● 2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
J0177A1-2.50X1.000	● 2-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
J0177A1-2.50X2.000	● 2-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
J0177A1-2.50X3.000	● 2-1/2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
J0177A1-2.50X4.000	● 2-1/2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
J0177A1-2.50X5.000	● 2-1/2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
J0177A1-2.50X6.000	● 2-1/2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
J0177A1-2.50X8.000	● 2-1/2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
J0177A1-2.50X10.000	● 2-1/2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
J0177A1-2.50X12.000	● 2-1/2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
J0177B1-3.25X1.000	● 3-1/4	1	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
J0177B1-3.25X2.000	● 3-1/4	2	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
J0177B1-3.25X3.000	● 3-1/4	3	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
J0177B1-3.25X4.000	● 3-1/4	4	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
J0177B1-3.25X5.000	● 3-1/4	5	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
J0177B1-3.25X6.000	● 3-1/4	6	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
J0177B1-3.25X8.000	● 3-1/4	8	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
J0177B1-3.25X10.000	● 3-1/4	10	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
J0177B1-3.25X12.000	● 3-1/4	12	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
J0177B1-4.00X1.000	● 4	1	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
J0177B1-4.00X2.000	● 4	2	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
J0177B1-4.00X3.000	● 4	3	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
J0177B1-4.00X4.000	● 4	4	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
J0177B1-4.00X5.000	● 4	5	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
J0177B1-4.00X6.000	● 4	6	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
J0177B1-4.00X8.000	● 4	8	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
J0177B1-4.00X10.000	● 4	10	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
J0177B1-4.00X12.000	● 4	12	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23

- In stock
- ◆ Ships within one week


Side Tapped (MS4) With Impact Dampening Ecology Seals, fixed cushion

Dimensions in Inches

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
ND	0.375	0.375	0.5	0.75	0.75
NT	1/4-20	5/16-18	3/8-16	1/2-13	1/2-13
SN	2.25	2.25	2.375	2.625	2.625
TN	0.625	0.875	1.25	1.5	2.063
XT	1.938	1.938	1.938	2.438	2.438



Models

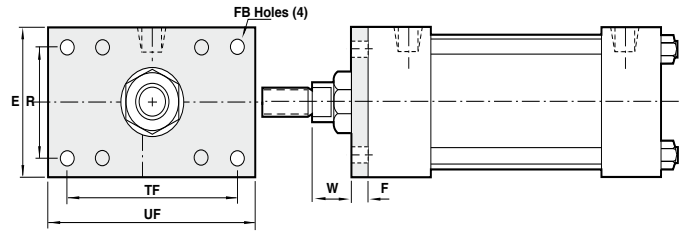
Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Accessories							
				Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	Tube O.D.	Rod Bearing kit	Piston seal kit	Cushion seal kit	
 EJ0155A1-1.50X1.000	●	1-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EJ0155A1-1.50X2.000	●	1-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EJ0155A1-1.50X3.000	●	1-1/2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EJ0155A1-1.50X4.000	●	1-1/2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EJ0155A1-1.50X5.000	●	1-1/2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EJ0155A1-1.50X6.000	●	1-1/2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EJ0155A1-1.50X8.000	●	1-1/2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EJ0155A1-1.50X10.000	●	1-1/2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EJ0155A1-1.50X12.000	●	1-1/2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EJ0155A1-2.00X1.000	●	2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EJ0155A1-2.00X2.000	●	2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EJ0155A1-2.00X3.000	●	2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EJ0155A1-2.00X4.000	●	2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EJ0155A1-2.00X5.000	●	2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EJ0155A1-2.00X6.000	●	2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EJ0155A1-2.00X8.000	●	2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EJ0155A1-2.00X10.000	●	2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EJ0155A1-2.00X12.000	●	2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EJ0155A1-2.50X1.000	●	2-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EJ0155A1-2.50X2.000	●	2-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EJ0155A1-2.50X3.000	●	2-1/2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EJ0155A1-2.50X4.000	●	2-1/2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EJ0155A1-2.50X5.000	●	2-1/2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EJ0155A1-2.50X6.000	●	2-1/2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EJ0155A1-2.50X8.000	●	2-1/2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EJ0155A1-2.50X10.000	●	2-1/2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EJ0155A1-2.50X12.000	●	2-1/2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EJ0155B1-3.25X1.000	●	3-1/4	1	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EJ0155B1-3.25X2.000	●	3-1/4	2	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EJ0155B1-3.25X3.000	●	3-1/4	3	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EJ0155B1-3.25X4.000	●	3-1/4	4	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EJ0155B1-3.25X5.000	●	3-1/4	5	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EJ0155B1-3.25X6.000	●	3-1/4	6	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EJ0155B1-3.25X8.000	●	3-1/4	8	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EJ0155B1-3.25X10.000	●	3-1/4	10	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EJ0155B1-3.25X12.000	●	3-1/4	12	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EJ0155B1-4.00X1.000	●	4	1	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EJ0155B1-4.00X2.000	●	4	2	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EJ0155B1-4.00X3.000	●	4	3	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EJ0155B1-4.00X4.000	●	4	4	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EJ0155B1-4.00X5.000	●	4	5	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EJ0155B1-4.00X6.000	●	4	6	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EJ0155B1-4.00X8.000	●	4	8	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EJ0155B1-4.00X10.000	●	4	10	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EJ0155B1-4.00X12.000	●	4	12	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23

- In stock
- ◆ Ships within one week

**Front Flange (MF1) Non-cushioned**







**Dimensions in Inches**

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
E	2	2.5	3	3.75	4.5
F	0.375	0.375	0.375	0.625	0.625
FB	0.313	0.375	0.375	0.438	0.438
R	1.428	1.838	2.192	2.758	3.323
TF	2.75	3.375	3.875	4.688	5.438
UF	3.375	4.125	4.625	5.5	6.25
W	0.625	0.625	0.625	0.75	0.75



**Models**

**Accessories**

Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	Tube O.D.	Rod Bearing kit	Piston seal kit
									
J0333A1-1.50X1.000	● 1-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
J0333A1-1.50X2.000	● 1-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
J0333A1-1.50X3.000	● 1-1/2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
J0333A1-1.50X4.000	● 1-1/2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
J0333A1-1.50X5.000	● 1-1/2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
J0333A1-1.50X6.000	● 1-1/2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
J0333A1-1.50X8.000	● 1-1/2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
J0333A1-1.50X10.000	● 1-1/2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
J0333A1-1.50X12.000	● 1-1/2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
J0333A1-2.00X1.000	● 2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
J0333A1-2.00X2.000	● 2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
J0333A1-2.00X3.000	● 2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
J0333A1-2.00X4.000	● 2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
J0333A1-2.00X5.000	● 2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
J0333A1-2.00X6.000	● 2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
J0333A1-2.00X8.000	● 2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
J0333A1-2.00X10.000	● 2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
J0333A1-2.00X12.000	● 2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
J0333A1-2.50X1.000	● 2-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
J0333A1-2.50X2.000	● 2-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
J0333A1-2.50X3.000	● 2-1/2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
J0333A1-2.50X4.000	● 2-1/2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
J0333A1-2.50X5.000	● 2-1/2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
J0333A1-2.50X6.000	● 2-1/2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
J0333A1-2.50X8.000	● 2-1/2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
J0333A1-2.50X10.000	● 2-1/2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
J0333A1-2.50X12.000	● 2-1/2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
J0333B1-3.25X1.000	● 3-1/4	1	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
J0333B1-3.25X2.000	● 3-1/4	2	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
J0333B1-3.25X3.000	● 3-1/4	3	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
J0333B1-3.25X4.000	● 3-1/4	4	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
J0333B1-3.25X5.000	● 3-1/4	5	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
J0333B1-3.25X6.000	● 3-1/4	6	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
J0333B1-3.25X8.000	● 3-1/4	8	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
J0333B1-3.25X10.000	● 3-1/4	10	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
J0333B1-3.25X12.000	● 3-1/4	12	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
J0333B1-4.00X1.000	● 4	1	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
J0333B1-4.00X2.000	● 4	2	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
J0333B1-4.00X3.000	● 4	3	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
J0333B1-4.00X4.000	● 4	4	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
J0333B1-4.00X5.000	● 4	5	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
J0333B1-4.00X6.000	● 4	6	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
J0333B1-4.00X8.000	● 4	8	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
J0333B1-4.00X10.000	● 4	10	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
J0333B1-4.00X12.000	● 4	12	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403

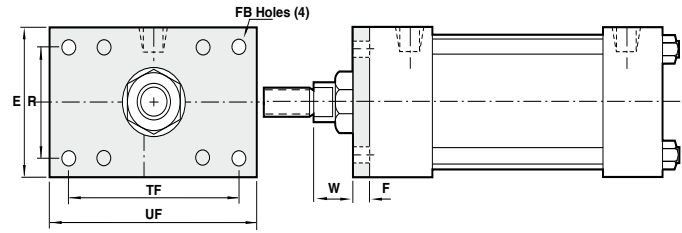
- In stock
- ◆ Ships within one week




Front Flange (MF1) Adjustable Cushions

Dimensions in Inches

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
E	2	2.5	3	3.75	4.5
F	0.375	0.375	0.375	0.625	0.625
FB	0.313	0.375	0.375	0.438	0.438
R	1.428	1.838	2.192	2.758	3.323
TF	2.75	3.375	3.875	4.688	5.438
UF	3.375	4.125	4.625	5.5	6.25
W	0.625	0.625	0.625	0.75	0.75



Models

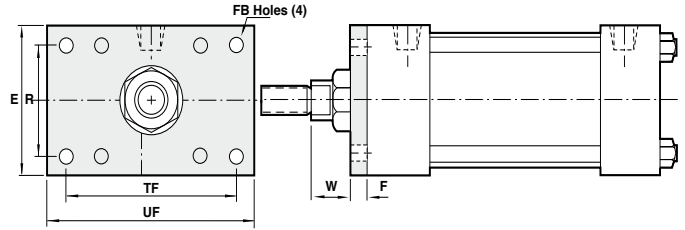
Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	Tube O.D.	Rod Bearing kit	Piston seal kit	Cushion seal kit
 J0377A1-1.50X1.000	● 1-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
J0377A1-1.50X2.000	● 1-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
J0377A1-1.50X3.000	● 1-1/2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
J0377A1-1.50X4.000	● 1-1/2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
J0377A1-1.50X5.000	● 1-1/2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
J0377A1-1.50X6.000	● 1-1/2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
J0377A1-1.50X8.000	● 1-1/2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
J0377A1-1.50X10.000	● 1-1/2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
J0377A1-1.50X12.000	● 1-1/2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
J0377A1-2.00X1.000	● 2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
J0377A1-2.00X2.000	● 2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
J0377A1-2.00X3.000	● 2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
J0377A1-2.00X4.000	● 2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
J0377A1-2.00X5.000	● 2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
J0377A1-2.00X6.000	● 2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
J0377A1-2.00X8.000	● 2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
J0377A1-2.00X10.000	● 2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
J0377A1-2.00X12.000	● 2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
J0377A1-2.50X1.000	● 2-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
J0377A1-2.50X2.000	● 2-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
J0377A1-2.50X3.000	● 2-1/2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
J0377A1-2.50X4.000	● 2-1/2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
J0377A1-2.50X5.000	● 2-1/2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
J0377A1-2.50X6.000	● 2-1/2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
J0377A1-2.50X8.000	● 2-1/2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
J0377A1-2.50X10.000	● 2-1/2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
J0377A1-2.50X12.000	● 2-1/2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
J0377B1-3.25X1.000	● 3-1/4	1	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
J0377B1-3.25X2.000	● 3-1/4	2	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
J0377B1-3.25X3.000	● 3-1/4	3	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
J0377B1-3.25X4.000	● 3-1/4	4	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
J0377B1-3.25X5.000	● 3-1/4	5	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
J0377B1-3.25X6.000	● 3-1/4	6	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
J0377B1-3.25X8.000	● 3-1/4	8	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
J0377B1-3.25X10.000	● 3-1/4	10	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
J0377B1-3.25X12.000	● 3-1/4	12	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
J0377B1-4.00X1.000	● 4	1	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
J0377B1-4.00X2.000	● 4	2	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
J0377B1-4.00X3.000	● 4	3	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
J0377B1-4.00X4.000	● 4	4	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
J0377B1-4.00X5.000	● 4	5	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
J0377B1-4.00X6.000	● 4	6	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
J0377B1-4.00X8.000	● 4	8	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
J0377B1-4.00X10.000	● 4	10	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
J0377B1-4.00X12.000	● 4	12	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23

- In stock
- ◆ Ships within one week

**Front Flange Mount (MF1) With Impact Dampening Ecology Seals and fixed cushion**









**Dimensions in Inches**

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
E	2	2.5	3	3.75	4.5
F	0.375	0.375	0.375	0.625	0.625
FB	0.313	0.375	0.375	0.438	0.438
R	1.428	1.838	2.192	2.758	3.323
TF	2.75	3.375	3.875	4.688	5.438
UF	3.375	4.125	4.625	5.5	6.25
W	0.625	0.625	0.625	0.75	0.75



**Models**

**Accessories**

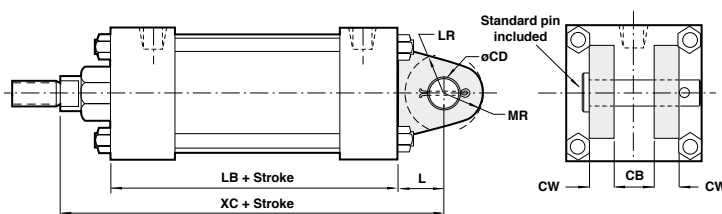
Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	Tube O.D.	Rod BEJring kit	Piston sEJ kit	Cushion sEJ kit	
											
EJ0355A1-1.50X1.000	●	1-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EJ0355A1-1.50X2.000	●	1-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EJ0355A1-1.50X3.000	●	1-1/2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EJ0355A1-1.50X4.000	●	1-1/2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EJ0355A1-1.50X5.000	●	1-1/2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EJ0355A1-1.50X6.000	●	1-1/2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EJ0355A1-1.50X8.000	●	1-1/2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EJ0355A1-1.50X10.000	●	1-1/2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EJ0355A1-1.50X12.000	●	1-1/2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EJ0355A1-2.00X1.000	●	2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EJ0355A1-2.00X2.000	●	2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EJ0355A1-2.00X3.000	●	2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EJ0355A1-2.00X4.000	●	2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EJ0355A1-2.00X5.000	●	2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EJ0355A1-2.00X6.000	●	2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EJ0355A1-2.00X8.000	●	2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EJ0355A1-2.00X10.000	●	2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EJ0355A1-2.00X12.000	●	2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EJ0355A1-2.50X1.000	●	2-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EJ0355A1-2.50X2.000	●	2-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EJ0355A1-2.50X3.000	●	2-1/2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EJ0355A1-2.50X4.000	●	2-1/2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EJ0355A1-2.50X5.000	●	2-1/2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EJ0355A1-2.50X6.000	●	2-1/2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EJ0355A1-2.50X8.000	●	2-1/2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EJ0355A1-2.50X10.000	●	2-1/2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EJ0355A1-2.50X12.000	●	2-1/2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EJ0355B1-3.25X1.000	●	3-1/4	1	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EJ0355B1-3.25X2.000	●	3-1/4	2	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EJ0355B1-3.25X3.000	●	3-1/4	3	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EJ0355B1-3.25X4.000	●	3-1/4	4	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EJ0355B1-3.25X5.000	●	3-1/4	5	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EJ0355B1-3.25X6.000	●	3-1/4	6	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EJ0355B1-3.25X8.000	●	3-1/4	8	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EJ0355B1-3.25X10.000	●	3-1/4	10	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EJ0355B1-3.25X12.000	●	3-1/4	12	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EJ0355B1-4.00X1.000	●	4	1	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EJ0355B1-4.00X2.000	●	4	2	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EJ0355B1-4.00X3.000	●	4	3	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EJ0355B1-4.00X4.000	●	4	4	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EJ0355B1-4.00X5.000	●	4	5	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EJ0355B1-4.00X6.000	●	4	6	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EJ0355B1-4.00X8.000	●	4	8	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EJ0355B1-4.00X10.000	●	4	10	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EJ0355B1-4.00X12.000	●	4	12	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23

- In stock
- ◆ Ships within one week

Fixed Cap Clevis Mount (MP1) Non-cushioned







Dimensions in Inches

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
CB	0.75	0.75	0.75	1.25	1.25
CD	0.5	0.5	0.5	0.75	0.75
CW	0.5	0.5	0.5	0.625	0.625
L	0.75	0.75	0.75	1.25	1.25
LB	3.625	3.625	3.75	4.25	4.25
LR	0.75	0.75	0.75	1.25	1.25
MR	0.625	0.625	0.625	0.938	0.938
XC	5.375	5.375	5.5	6.875	6.875



Models

Accessories

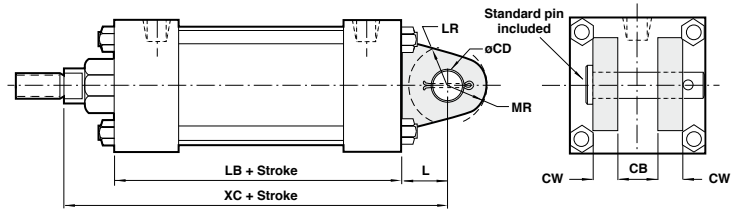
Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	Tube O.D.	Rod Bearing kit	Piston seal kit	
										
J1233A1-1.50X1.000	●	1-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
J1233A1-1.50X2.000	●	1-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
J1233A1-1.50X3.000	●	1-1/2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
J1233A1-1.50X4.000	●	1-1/2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
J1233A1-1.50X5.000	●	1-1/2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
J1233A1-1.50X6.000	●	1-1/2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
J1233A1-1.50X8.000	●	1-1/2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
J1233A1-1.50X10.000	●	1-1/2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
J1233A1-1.50X12.000	●	1-1/2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
J1233A1-2.00X1.000	●	2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
J1233A1-2.00X2.000	●	2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
J1233A1-2.00X3.000	●	2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
J1233A1-2.00X4.000	●	2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
J1233A1-2.00X5.000	●	2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
J1233A1-2.00X6.000	●	2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
J1233A1-2.00X8.000	●	2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
J1233A1-2.00X10.000	●	2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
J1233A1-2.00X12.000	●	2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203
J1233A1-2.50X1.000	●	2-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
J1233A1-2.50X2.000	●	2-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
J1233A1-2.50X3.000	●	2-1/2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
J1233A1-2.50X4.000	●	2-1/2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
J1233A1-2.50X5.000	●	2-1/2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
J1233A1-2.50X6.000	●	2-1/2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
J1233A1-2.50X8.000	●	2-1/2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
J1233A1-2.50X10.000	●	2-1/2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
J1233A1-2.50X12.000	●	2-1/2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253
J1233B1-3.25X1.000	●	3-1/4	1	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
J1233B1-3.25X2.000	●	3-1/4	2	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
J1233B1-3.25X3.000	●	3-1/4	3	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
J1233B1-3.25X4.000	●	3-1/4	4	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
J1233B1-3.25X5.000	●	3-1/4	5	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
J1233B1-3.25X6.000	●	3-1/4	6	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
J1233B1-3.25X8.000	●	3-1/4	8	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
J1233B1-3.25X10.000	●	3-1/4	10	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
J1233B1-3.25X12.000	●	3-1/4	12	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323
J1233B1-4.00X1.000	●	4	1	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
J1233B1-4.00X2.000	●	4	2	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
J1233B1-4.00X3.000	●	4	3	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
J1233B1-4.00X4.000	●	4	4	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
J1233B1-4.00X5.000	●	4	5	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
J1233B1-4.00X6.000	●	4	6	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
J1233B1-4.00X8.000	●	4	8	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
J1233B1-4.00X10.000	●	4	10	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403
J1233B1-4.00X12.000	●	4	12	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403

- In stock
- ◆ Ships within one week

**Fixed Cap Clevis Mount (MP1) Adjustable Cushions**









**Dimensions in Inches**

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
CB	0.75	0.75	0.75	1.25	1.25
CD	0.5	0.5	0.5	0.75	0.75
CW	0.5	0.5	0.5	0.625	0.625
L	0.75	0.75	0.75	1.25	1.25
LB	3.625	3.625	3.75	4.25	4.25
LR	0.75	0.75	0.75	1.25	1.25
MR	0.625	0.625	0.625	0.938	0.938
XC	5.375	5.375	5.5	6.875	6.875



**Models**

**Accessories**

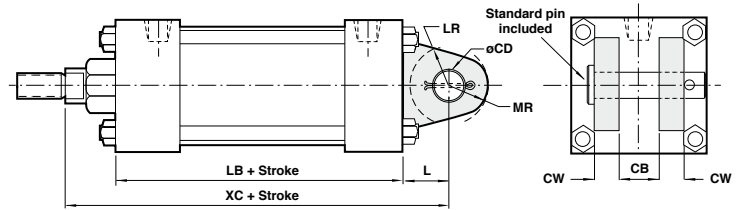
Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	Tube O.D.	Rod Bearing kit	Piston seal kit	Cushion seal kit
										
J1277A1-1.50X1.000	● 1-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
J1277A1-1.50X2.000	● 1-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
J1277A1-1.50X3.000	● 1-1/2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
J1277A1-1.50X4.000	● 1-1/2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
J1277A1-1.50X5.000	● 1-1/2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
J1277A1-1.50X6.000	● 1-1/2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
J1277A1-1.50X8.000	● 1-1/2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
J1277A1-1.50X10.000	● 1-1/2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
J1277A1-1.50X12.000	● 1-1/2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
J1277A1-2.00X1.000	● 2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
J1277A1-2.00X2.000	● 2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
J1277A1-2.00X3.000	● 2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
J1277A1-2.00X4.000	● 2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
J1277A1-2.00X5.000	● 2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
J1277A1-2.00X6.000	● 2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
J1277A1-2.00X8.000	● 2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
J1277A1-2.00X10.000	● 2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
J1277A1-2.00X12.000	● 2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-203	CSK-15-13
J1277A1-2.50X1.000	● 2-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
J1277A1-2.50X2.000	● 2-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
J1277A1-2.50X3.000	● 2-1/2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
J1277A1-2.50X4.000	● 2-1/2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
J1277A1-2.50X5.000	● 2-1/2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
J1277A1-2.50X6.000	● 2-1/2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
J1277A1-2.50X8.000	● 2-1/2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
J1277A1-2.50X10.000	● 2-1/2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
J1277A1-2.50X12.000	● 2-1/2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-253	CSK-15-13
J1277B1-3.25X1.000	● 3-1/4	1	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
J1277B1-3.25X2.000	● 3-1/4	2	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
J1277B1-3.25X3.000	● 3-1/4	3	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
J1277B1-3.25X4.000	● 3-1/4	4	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
J1277B1-3.25X5.000	● 3-1/4	5	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
J1277B1-3.25X6.000	● 3-1/4	6	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
J1277B1-3.25X8.000	● 3-1/4	8	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
J1277B1-3.25X10.000	● 3-1/4	10	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
J1277B1-3.25X12.000	● 3-1/4	12	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-323	CSK-25-23
J1277B1-4.00X1.000	● 4	1	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
J1277B1-4.00X2.000	● 4	2	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
J1277B1-4.00X3.000	● 4	3	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
J1277B1-4.00X4.000	● 4	4	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
J1277B1-4.00X5.000	● 4	5	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
J1277B1-4.00X6.000	● 4	6	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
J1277B1-4.00X8.000	● 4	8	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
J1277B1-4.00X10.000	● 4	10	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23
J1277B1-4.00X12.000	● 4	12	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	AJK-403	CSK-25-23

- In stock
- ◆ Ships within one week

Fixed Cap Clevis Mount (MP1) With Impact Dampening Ecology Seals and fixed cushion









Dimensions in Inches

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
CB	0.75	0.75	0.75	1.25	1.25
CD	0.5	0.5	0.5	0.75	0.75
CW	0.5	0.5	0.5	0.625	0.625
L	0.75	0.75	0.75	1.25	1.25
LB	3.625	3.625	3.75	4.25	4.25
LR	0.75	0.75	0.75	1.25	1.25
MR	0.625	0.625	0.625	0.938	0.938
XC	5.375	5.375	5.5	6.875	6.875



Models

Accessories

Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	Tube O.D.	Rod BEJring kit	Piston sEJ kit	Cushion sEJ kit	
											
EJ1255A1-1.50X1.000	●	1-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EJ1255A1-1.50X2.000	●	1-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EJ1255A1-1.50X3.000	●	1-1/2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EJ1255A1-1.50X4.000	●	1-1/2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EJ1255A1-1.50X5.000	●	1-1/2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EJ1255A1-1.50X6.000	●	1-1/2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EJ1255A1-1.50X8.000	●	1-1/2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EJ1255A1-1.50X10.000	●	1-1/2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EJ1255A1-1.50X12.000	●	1-1/2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EJ1255A1-2.00X1.000	●	2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EJ1255A1-2.00X2.000	●	2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EJ1255A1-2.00X3.000	●	2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EJ1255A1-2.00X4.000	●	2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EJ1255A1-2.00X5.000	●	2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EJ1255A1-2.00X6.000	●	2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EJ1255A1-2.00X8.000	●	2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EJ1255A1-2.00X10.000	●	2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EJ1255A1-2.00X12.000	●	2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-203	CSK-15-13
EJ1255A1-2.50X1.000	●	2-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EJ1255A1-2.50X2.000	●	2-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EJ1255A1-2.50X3.000	●	2-1/2	3	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EJ1255A1-2.50X4.000	●	2-1/2	4	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EJ1255A1-2.50X5.000	●	2-1/2	5	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EJ1255A1-2.50X6.000	●	2-1/2	6	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EJ1255A1-2.50X8.000	●	2-1/2	8	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EJ1255A1-2.50X10.000	●	2-1/2	10	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EJ1255A1-2.50X12.000	●	2-1/2	12	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-253	CSK-15-13
EJ1255B1-3.25X1.000	●	3-1/4	1	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EJ1255B1-3.25X2.000	●	3-1/4	2	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EJ1255B1-3.25X3.000	●	3-1/4	3	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EJ1255B1-3.25X4.000	●	3-1/4	4	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EJ1255B1-3.25X5.000	●	3-1/4	5	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EJ1255B1-3.25X6.000	●	3-1/4	6	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EJ1255B1-3.25X8.000	●	3-1/4	8	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EJ1255B1-3.25X10.000	●	3-1/4	10	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EJ1255B1-3.25X12.000	●	3-1/4	12	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-323	CSK-25-23
EJ1255B1-4.00X1.000	●	4	1	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EJ1255B1-4.00X2.000	●	4	2	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EJ1255B1-4.00X3.000	●	4	3	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EJ1255B1-4.00X4.000	●	4	4	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EJ1255B1-4.00X5.000	●	4	5	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EJ1255B1-4.00X6.000	●	4	6	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EJ1255B1-4.00X8.000	●	4	8	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EJ1255B1-4.00X10.000	●	4	10	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23
EJ1255B1-4.00X12.000	●	4	12	1/2	C24250748	C24470748	C2VA00748	1/2	RBK-25	EJK-403	CSK-25-23

- In stock
- ◆ Ships within one week

**Precision machined 300 Series stainless steel components**  
**Cushioned and non-cushioned models**  
**Rated for 250 psi Air and 400 psi hydraulic, non-shock**  
**Designed for non-lube service**



### Technical Data

#### Medium:

Filtered compressed air to 250 PSI

#### Operating temperature:

-20°F to 200°F

#### Operating Pressure:

250 psig

**Bore Sizes:** 1-1/2", 2", 2-1/2", 3-1/4", 4"

#### Lubrication:

None required

#### Materials:

Head and End Caps: 304 stainless steel

Tube: 304 stainless steel

Piston Rod: hard chrome plated

303 stainless steel

Piston: Aluminum alloy with PTFE composite wearband

Rod Bearings: 304 stainless steel

with PTFE composite wearband

Seals: urethane rod seal and

wiper, nitrile piston seals

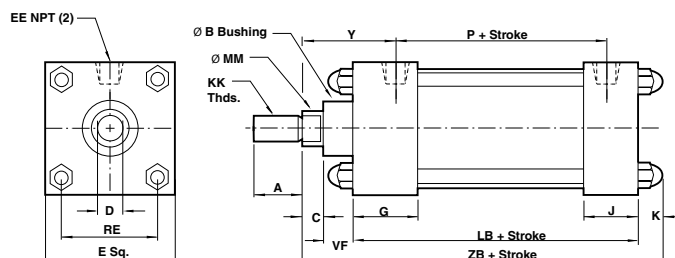
Tie Rods: 303 stainless steel

### Accessories

Bore	Rod clevis	Rod clevis pin	Eye bracket	Rod alignment coupler
1-1/2"	S-92-03A ◆	S-96-03A ◆	S-89-03A ◆	SC-1-07 ◆
2"	S-92-03A ◆	S-96-03A ◆	S-89-03A ◆	SC-1-07 ◆
2-1/2"	S-92-03A ◆	S-96-03A ◆	S-89-03A ◆	SC-1-07 ◆
3-1/4"	S-92-065 ◆	S-96-065 ◆	S-89-065A ◆	SC-1-12 ◆
4"	S-92-065 ◆	S-96-065 ◆	S-89-065A ◆	SC-1-12 ◆

### Dimensions in Inches

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
A	.750	.750	.750	1.125	1.125
C	.375	.375	.375	.500	.500
D	.500	.500	.500	.813	.813
E	2.000	2.500	3.000	3.750	4.500
EE	.375	.375	.375	.500	.500
G	1.500	1.500	1.500	1.750	1.750
J	1.000	1.000	1.000	1.250	1.250
K	.469	.531	.531	.625	.625
KK	7/16-20	7/16-20	7/16-20	3/4-16	3/4-16
LB	3.625	3.625	3.750	4.250	4.250
P	2.125	2.125	2.250	2.625	2.625
RE	1.428	1.838	2.192	2.758	3.323
VF	.625	.625	.625	.875	.875
Y	2.000	2.000	2.000	2.437	2.437
ZB	4.094	5.156	5.281	6.250	6.250
ZB	4.875	4.938	5.063	6.000	6.000

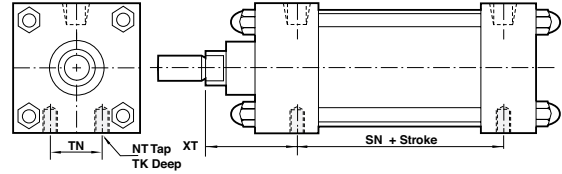


- In stock
- ◆ Ships within one week

Side Tapped (MS4) Non-cushioned





Dimensions in Inches

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
NT	1/4-20	5/16-18	3/8-16	1/2-13	1/2-13
SN	2.25	2.25	2.375	2.625	2.625
TK	0.375	0.500	0.625	0.750	0.750
TN	0.625	0.875	1.25	1.5	2.063
XT	1.938	1.938	1.938	2.438	2.438



Models

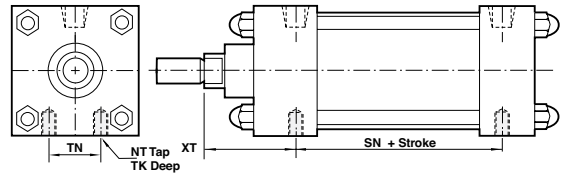
Accessories





Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight fitting	90° Elbow fitting	Tube O.D.	Piston seal kit
							
SC01A-B02-EAA00 ◆	1-1/2	1	3/8	D24250638	D24450638	3/8	SSK-03
SC02A-B02-EAA00 ◆	1-1/2	2	3/8	D24250638	D24450638	3/8	SSK-03
SC03A-B02-EAA00 ◆	1-1/2	3	3/8	D24250638	D24450638	3/8	SSK-03
SC04A-B02-EAA00 ◆	1-1/2	4	3/8	D24250638	D24450638	3/8	SSK-03
SC05A-B02-EAA00 ◆	1-1/2	5	3/8	D24250638	D24450638	3/8	SSK-03
SC06A-B02-EAA00 ◆	1-1/2	6	3/8	D24250638	D24450638	3/8	SSK-03
SC08A-B02-EAA00 ◆	1-1/2	8	3/8	D24250638	D24450638	3/8	SSK-03
SC10A-B02-EAA00 ◆	1-1/2	10	3/8	D24250638	D24450638	3/8	SSK-03
SD12A-B02-EAA00 ◆	1-1/2	12	3/8	D24250638	D24450638	3/8	SSK-04
SD01A-B02-EAA00 ◆	2	1	3/8	D24250638	D24450638	3/8	SSK-04
SD02A-B02-EAA00 ◆	2	2	3/8	D24250638	D24450638	3/8	SSK-04
SD03A-B02-EAA00 ◆	2	3	3/8	D24250638	D24450638	3/8	SSK-04
SD04A-B02-EAA00 ◆	2	4	3/8	D24250638	D24450638	3/8	SSK-04
SD05A-B02-EAA00 ◆	2	5	3/8	D24250638	D24450638	3/8	SSK-04
SD06A-B02-EAA00 ◆	2	6	3/8	D24250638	D24450638	3/8	SSK-04
SD08A-B02-EAA00 ◆	2	8	3/8	D24250638	D24450638	3/8	SSK-04
SD10A-B02-EAA00 ◆	2	10	3/8	D24250638	D24450638	3/8	SSK-04
SD12A-B02-EAA00 ◆	2	12	3/8	D24250638	D24450638	3/8	SSK-04
SE01A-B02-EAA00 ◆	2-1/2	1	3/8	D24250638	D24450638	3/8	SSK-05
SE02A-B02-EAA00 ◆	2-1/2	2	3/8	D24250638	D24450638	3/8	SSK-05
SE03A-B02-EAA00 ◆	2-1/2	3	3/8	D24250638	D24450638	3/8	SSK-05
SE04A-B02-EAA00 ◆	2-1/2	4	3/8	D24250638	D24450638	3/8	SSK-05
SE05A-B02-EAA00 ◆	2-1/2	5	3/8	D24250638	D24450638	3/8	SSK-05
SE06A-B02-EAA00 ◆	2-1/2	6	3/8	D24250638	D24450638	3/8	SSK-05
SE08A-B02-EAA00 ◆	2-1/2	8	3/8	D24250638	D24450638	3/8	SSK-05
SE10A-B02-EAA00 ◆	2-1/2	10	3/8	D24250638	D24450638	3/8	SSK-05
SE12A-B02-EAA00 ◆	2-1/2	12	3/8	D24250638	D24450638	3/8	SSK-05
SF01A-A02-EAA00 ◆	3-1/4	1	1/2	D24250748	D24450748	1/2	SSK-065
SF02A-A02-EAA00 ◆	3-1/4	2	1/2	D24250748	D24450748	1/2	SSK-065
SF03A-A02-EAA00 ◆	3-1/4	3	1/2	D24250748	D24450748	1/2	SSK-065
SF04A-A02-EAA00 ◆	3-1/4	4	1/2	D24250748	D24450748	1/2	SSK-065
SF05A-A02-EAA00 ◆	3-1/4	5	1/2	D24250748	D24450748	1/2	SSK-065
SF06A-A02-EAA00 ◆	3-1/4	6	1/2	D24250748	D24450748	1/2	SSK-065
SF08A-A02-EAA00 ◆	3-1/4	8	1/2	D24250748	D24450748	1/2	SSK-065
SF10A-A02-EAA00 ◆	3-1/4	10	1/2	D24250748	D24450748	1/2	SSK-065
SF12A-A02-EAA00 ◆	3-1/4	12	1/2	D24250748	D24450748	1/2	SSK-065
SG01A-A02-EAA00 ◆	4	1	1/2	D24250748	D24450748	1/2	SSK-08
SG02A-A02-EAA00 ◆	4	2	1/2	D24250748	D24450748	1/2	SSK-08
SG03A-A02-EAA00 ◆	4	3	1/2	D24250748	D24450748	1/2	SSK-08
SG04A-A02-EAA00 ◆	4	4	1/2	D24250748	D24450748	1/2	SSK-08
SG05A-A02-EAA00 ◆	4	5	1/2	D24250748	D24450748	1/2	SSK-08
SG06A-A02-EAA00 ◆	4	6	1/2	D24250748	D24450748	1/2	SSK-08
SG08A-A02-EAA00 ◆	4	8	1/2	D24250748	D24450748	1/2	SSK-08
SG10A-A02-EAA00 ◆	4	10	1/2	D24250748	D24450748	1/2	SSK-08
SG12A-A02-EAA00 ◆	4	12	1/2	D24250748	D24450748	1/2	SSK-08

- In stock
- ◆ Ships within one week

**Side Tapped (MS4) Adjustable cushion**
**Dimensions in Inches**

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
NT	1/4-20	5/16-18	3/8-16	1/2-13	1/2-13
SN	2.25	2.25	2.375	2.625	2.625
TK	0.375	0.500	0.625	0.750	0.750
TN	0.625	0.875	1.25	1.5	2.063
XT	1.938	1.938	1.938	2.438	2.438


**Models**

Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight fitting	90° Elbow fitting	Tube O.D.	Piston seal kit
							
SC01A-B02-EMA00	1-1/2	1	3/8	D24250638	D24450638	3/8	SSK-03
SC02A-B02-EMA00	1-1/2	2	3/8	D24250638	D24450638	3/8	SSK-03
SC03A-B02-EMA00	1-1/2	3	3/8	D24250638	D24450638	3/8	SSK-03
SC04A-B02-EMA00	1-1/2	4	3/8	D24250638	D24450638	3/8	SSK-03
SC05A-B02-EMA00	1-1/2	5	3/8	D24250638	D24450638	3/8	SSK-03
SC06A-B02-EMA00	1-1/2	6	3/8	D24250638	D24450638	3/8	SSK-03
SC08A-B02-EMA00	1-1/2	8	3/8	D24250638	D24450638	3/8	SSK-03
SC10A-B02-EMA00	1-1/2	10	3/8	D24250638	D24450638	3/8	SSK-03
SD12A-B02-EMA00	1-1/2	12	3/8	D24250638	D24450638	3/8	SSK-04
SD01A-B02-EMA00	2	1	3/8	D24250638	D24450638	3/8	SSK-04
SD02A-B02-EMA00	2	2	3/8	D24250638	D24450638	3/8	SSK-04
SD03A-B02-EMA00	2	3	3/8	D24250638	D24450638	3/8	SSK-04
SD04A-B02-EMA00	2	4	3/8	D24250638	D24450638	3/8	SSK-04
SD05A-B02-EMA00	2	5	3/8	D24250638	D24450638	3/8	SSK-04
SD06A-B02-EMA00	2	6	3/8	D24250638	D24450638	3/8	SSK-04
SD08A-B02-EMA00	2	8	3/8	D24250638	D24450638	3/8	SSK-04
SD10A-B02-EMA00	2	10	3/8	D24250638	D24450638	3/8	SSK-04
SD12A-B02-EMA00	2	12	3/8	D24250638	D24450638	3/8	SSK-04
SE01A-B02-EMA00	2-1/2	1	3/8	D24250638	D24450638	3/8	SSK-05
SE02A-B02-EMA00	2-1/2	2	3/8	D24250638	D24450638	3/8	SSK-05
SE03A-B02-EMA00	2-1/2	3	3/8	D24250638	D24450638	3/8	SSK-05
SE04A-B02-EMA00	2-1/2	4	3/8	D24250638	D24450638	3/8	SSK-05
SE05A-B02-EMA00	2-1/2	5	3/8	D24250638	D24450638	3/8	SSK-05
SE06A-B02-EMA00	2-1/2	6	3/8	D24250638	D24450638	3/8	SSK-05
SE08A-B02-EMA00	2-1/2	8	3/8	D24250638	D24450638	3/8	SSK-05
SE10A-B02-EMA00	2-1/2	10	3/8	D24250638	D24450638	3/8	SSK-05
SE12A-B02-EMA00	2-1/2	12	3/8	D24250638	D24450638	3/8	SSK-05
SF01A-A02-EMA00	3-1/4	1	1/2	D24250748	D24450748	1/2	SSK-065
SF02A-A02-EMA00	3-1/4	2	1/2	D24250748	D24450748	1/2	SSK-065
SF03A-A02-EMA00	3-1/4	3	1/2	D24250748	D24450748	1/2	SSK-065
SF04A-A02-EMA00	3-1/4	4	1/2	D24250748	D24450748	1/2	SSK-065
SF05A-A02-EMA00	3-1/4	5	1/2	D24250748	D24450748	1/2	SSK-065
SF06A-A02-EMA00	3-1/4	6	1/2	D24250748	D24450748	1/2	SSK-065
SF08A-A02-EMA00	3-1/4	8	1/2	D24250748	D24450748	1/2	SSK-065
SF10A-A02-EMA00	3-1/4	10	1/2	D24250748	D24450748	1/2	SSK-065
SF12A-A02-EMA00	3-1/4	12	1/2	D24250748	D24450748	1/2	SSK-065
SG01A-A02-EMA00	4	1	1/2	D24250748	D24450748	1/2	SSK-08
SG02A-A02-EMA00	4	2	1/2	D24250748	D24450748	1/2	SSK-08
SG03A-A02-EMA00	4	3	1/2	D24250748	D24450748	1/2	SSK-08
SG04A-A02-EMA00	4	4	1/2	D24250748	D24450748	1/2	SSK-08
SG05A-A02-EMA00	4	5	1/2	D24250748	D24450748	1/2	SSK-08
SG06A-A02-EMA00	4	6	1/2	D24250748	D24450748	1/2	SSK-08
SG08A-A02-EMA00	4	8	1/2	D24250748	D24450748	1/2	SSK-08
SG10A-A02-EMA00	4	10	1/2	D24250748	D24450748	1/2	SSK-08
SG12A-A02-EMA00	4	12	1/2	D24250748	D24450748	1/2	SSK-08

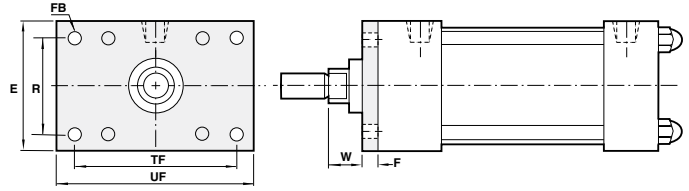
- In stock
- ◆ Ships within one week



Front Flange (MF1) Non-cushioned





Dimensions in Inches

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
E	2	2.5	3	3.75	4.5
F	0.375	0.375	0.375	0.625	0.625
FB	0.313	0.375	0.375	0.438	0.438
R	1.428	1.838	2.192	2.758	3.323
TF	2.75	3.375	3.875	4.688	5.438
UF	3.375	4.125	4.625	5.5	6.25
W	0.625	0.625	0.625	0.75	0.75



Models

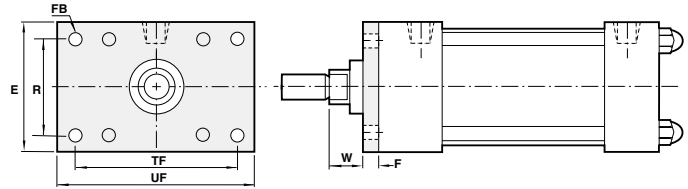
Accessories


Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight fitting	90° Elbow fitting	Tube O.D.	Piston seal kit
							
SC01A-B04-EAA00 ◆	1-1/2	1	3/8	D24250638	D24450638	3/8	SSK-03
SC02A-B04-EAA00 ◆	1-1/2	2	3/8	D24250638	D24450638	3/8	SSK-03
SC03A-B04-EAA00 ◆	1-1/2	3	3/8	D24250638	D24450638	3/8	SSK-03
SC04A-B04-EAA00 ◆	1-1/2	4	3/8	D24250638	D24450638	3/8	SSK-03
SC05A-B04-EAA00 ◆	1-1/2	5	3/8	D24250638	D24450638	3/8	SSK-03
SC06A-B04-EAA00 ◆	1-1/2	6	3/8	D24250638	D24450638	3/8	SSK-03
SC08A-B04-EAA00 ◆	1-1/2	8	3/8	D24250638	D24450638	3/8	SSK-03
SC10A-B04-EAA00 ◆	1-1/2	10	3/8	D24250638	D24450638	3/8	SSK-03
SD12A-B04-EAA00 ◆	1-1/2	12	3/8	D24250638	D24450638	3/8	SSK-04
SD01A-B04-EAA00 ◆	2	1	3/8	D24250638	D24450638	3/8	SSK-04
SD02A-B04-EAA00 ◆	2	2	3/8	D24250638	D24450638	3/8	SSK-04
SD03A-B04-EAA00 ◆	2	3	3/8	D24250638	D24450638	3/8	SSK-04
SD04A-B04-EAA00 ◆	2	4	3/8	D24250638	D24450638	3/8	SSK-04
SD05A-B04-EAA00 ◆	2	5	3/8	D24250638	D24450638	3/8	SSK-04
SD06A-B04-EAA00 ◆	2	6	3/8	D24250638	D24450638	3/8	SSK-04
SD08A-B04-EAA00 ◆	2	8	3/8	D24250638	D24450638	3/8	SSK-04
SD10A-B04-EAA00 ◆	2	10	3/8	D24250638	D24450638	3/8	SSK-04
SD12A-B04-EAA00 ◆	2	12	3/8	D24250638	D24450638	3/8	SSK-04
SE01A-B04-EAA00 ◆	2-1/2	1	3/8	D24250638	D24450638	3/8	SSK-05
SE02A-B04-EAA00 ◆	2-1/2	2	3/8	D24250638	D24450638	3/8	SSK-05
SE03A-B04-EAA00 ◆	2-1/2	3	3/8	D24250638	D24450638	3/8	SSK-05
SE04A-B04-EAA00 ◆	2-1/2	4	3/8	D24250638	D24450638	3/8	SSK-05
SE05A-B04-EAA00 ◆	2-1/2	5	3/8	D24250638	D24450638	3/8	SSK-05
SE06A-B04-EAA00 ◆	2-1/2	6	3/8	D24250638	D24450638	3/8	SSK-05
SE08A-B04-EAA00 ◆	2-1/2	8	3/8	D24250638	D24450638	3/8	SSK-05
SE10A-B04-EAA00 ◆	2-1/2	10	3/8	D24250638	D24450638	3/8	SSK-05
SE12A-B04-EAA00 ◆	2-1/2	12	3/8	D24250638	D24450638	3/8	SSK-05
SF01A-A04-EAA00 ◆	3-1/4	1	1/2	D24250748	D24450748	1/2	SSK-065
SF02A-A04-EAA00 ◆	3-1/4	2	1/2	D24250748	D24450748	1/2	SSK-065
SF03A-A04-EAA00 ◆	3-1/4	3	1/2	D24250748	D24450748	1/2	SSK-065
SF04A-A04-EAA00 ◆	3-1/4	4	1/2	D24250748	D24450748	1/2	SSK-065
SF05A-A04-EAA00 ◆	3-1/4	5	1/2	D24250748	D24450748	1/2	SSK-065
SF06A-A04-EAA00 ◆	3-1/4	6	1/2	D24250748	D24450748	1/2	SSK-065
SF08A-A04-EAA00 ◆	3-1/4	8	1/2	D24250748	D24450748	1/2	SSK-065
SF10A-A04-EAA00 ◆	3-1/4	10	1/2	D24250748	D24450748	1/2	SSK-065
SF12A-A04-EAA00 ◆	3-1/4	12	1/2	D24250748	D24450748	1/2	SSK-065
SG01A-A04-EAA00 ◆	4	1	1/2	D24250748	D24450748	1/2	SSK-08
SG02A-A04-EAA00 ◆	4	2	1/2	D24250748	D24450748	1/2	SSK-08
SG03A-A04-EAA00 ◆	4	3	1/2	D24250748	D24450748	1/2	SSK-08
SG04A-A04-EAA00 ◆	4	4	1/2	D24250748	D24450748	1/2	SSK-08
SG05A-A04-EAA00 ◆	4	5	1/2	D24250748	D24450748	1/2	SSK-08
SG06A-A04-EAA00 ◆	4	6	1/2	D24250748	D24450748	1/2	SSK-08
SG08A-A04-EAA00 ◆	4	8	1/2	D24250748	D24450748	1/2	SSK-08
SG10A-A04-EAA00 ◆	4	10	1/2	D24250748	D24450748	1/2	SSK-08
SG12A-A04-EAA00 ◆	4	12	1/2	D24250748	D24450748	1/2	SSK-08

- In stock
- ◆ Ships within one week

**Front Flange (MF1) Adjustable cushions**
**Dimensions in Inches**

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
E	2	2.5	3	3.75	4.5
F	0.375	0.375	0.375	0.625	0.625
FB	0.313	0.375	0.375	0.438	0.438
R	1.428	1.838	2.192	2.758	3.323
TF	2.75	3.375	3.875	4.688	5.438
UF	3.375	4.125	4.625	5.5	6.25
W	0.625	0.625	0.625	0.75	0.75


**Models**

Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight fitting	90° Elbow fitting	Tube O.D.	Piston seal kit
 SC01A-B04-EMA00	1-1/2	1	3/8	D24250638	D24450638	3/8	SSK-03
SC02A-B04-EMA00	1-1/2	2	3/8	D24250638	D24450638	3/8	SSK-03
SC03A-B04-EMA00	1-1/2	3	3/8	D24250638	D24450638	3/8	SSK-03
SC04A-B04-EMA00	1-1/2	4	3/8	D24250638	D24450638	3/8	SSK-03
SC05A-B04-EMA00	1-1/2	5	3/8	D24250638	D24450638	3/8	SSK-03
SC06A-B04-EMA00	1-1/2	6	3/8	D24250638	D24450638	3/8	SSK-03
SC08A-B04-EMA00	1-1/2	8	3/8	D24250638	D24450638	3/8	SSK-03
SC10A-B04-EMA00	1-1/2	10	3/8	D24250638	D24450638	3/8	SSK-03
SD12A-B04-EMA00	1-1/2	12	3/8	D24250638	D24450638	3/8	SSK-04
SD01A-B04-EMA00	2	1	3/8	D24250638	D24450638	3/8	SSK-04
SD02A-B04-EMA00	2	2	3/8	D24250638	D24450638	3/8	SSK-04
SD03A-B04-EMA00	2	3	3/8	D24250638	D24450638	3/8	SSK-04
SD04A-B04-EMA00	2	4	3/8	D24250638	D24450638	3/8	SSK-04
SD05A-B04-EMA00	2	5	3/8	D24250638	D24450638	3/8	SSK-04
SD06A-B04-EMA00	2	6	3/8	D24250638	D24450638	3/8	SSK-04
SD08A-B04-EMA00	2	8	3/8	D24250638	D24450638	3/8	SSK-04
SD10A-B04-EMA00	2	10	3/8	D24250638	D24450638	3/8	SSK-04
SD12A-B04-EMA00	2	12	3/8	D24250638	D24450638	3/8	SSK-04
SE01A-B04-EMA00	2-1/2	1	3/8	D24250638	D24450638	3/8	SSK-05
SE02A-B04-EMA00	2-1/2	2	3/8	D24250638	D24450638	3/8	SSK-05
SE03A-B04-EMA00	2-1/2	3	3/8	D24250638	D24450638	3/8	SSK-05
SE04A-B04-EMA00	2-1/2	4	3/8	D24250638	D24450638	3/8	SSK-05
SE05A-B04-EMA00	2-1/2	5	3/8	D24250638	D24450638	3/8	SSK-05
SE06A-B04-EMA00	2-1/2	6	3/8	D24250638	D24450638	3/8	SSK-05
SE08A-B04-EMA00	2-1/2	8	3/8	D24250638	D24450638	3/8	SSK-05
SE10A-B04-EMA00	2-1/2	10	3/8	D24250638	D24450638	3/8	SSK-05
SE12A-B04-EMA00	2-1/2	12	3/8	D24250638	D24450638	3/8	SSK-05
SF01A-A04-EMA00	3-1/4	1	1/2	D24250748	D24450748	1/2	SSK-065
SF02A-A04-EMA00	3-1/4	2	1/2	D24250748	D24450748	1/2	SSK-065
SF03A-A04-EMA00	3-1/4	3	1/2	D24250748	D24450748	1/2	SSK-065
SF04A-A04-EMA00	3-1/4	4	1/2	D24250748	D24450748	1/2	SSK-065
SF05A-A04-EMA00	3-1/4	5	1/2	D24250748	D24450748	1/2	SSK-065
SF06A-A04-EMA00	3-1/4	6	1/2	D24250748	D24450748	1/2	SSK-065
SF08A-A04-EMA00	3-1/4	8	1/2	D24250748	D24450748	1/2	SSK-065
SF10A-A04-EMA00	3-1/4	10	1/2	D24250748	D24450748	1/2	SSK-065
SF12A-A04-EMA00	3-1/4	12	1/2	D24250748	D24450748	1/2	SSK-065
SG01A-A04-EMA00	4	1	1/2	D24250748	D24450748	1/2	SSK-08
SG02A-A04-EMA00	4	2	1/2	D24250748	D24450748	1/2	SSK-08
SG03A-A04-EMA00	4	3	1/2	D24250748	D24450748	1/2	SSK-08
SG04A-A04-EMA00	4	4	1/2	D24250748	D24450748	1/2	SSK-08
SG05A-A04-EMA00	4	5	1/2	D24250748	D24450748	1/2	SSK-08
SG06A-A04-EMA00	4	6	1/2	D24250748	D24450748	1/2	SSK-08
SG08A-A04-EMA00	4	8	1/2	D24250748	D24450748	1/2	SSK-08
SG10A-A04-EMA00	4	10	1/2	D24250748	D24450748	1/2	SSK-08
SG12A-A04-EMA00	4	12	1/2	D24250748	D24450748	1/2	SSK-08

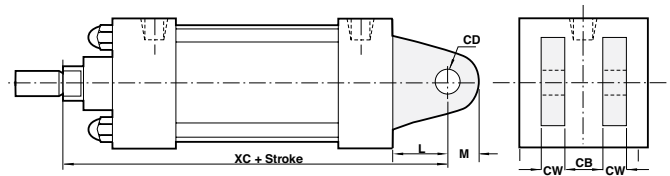
- In stock
- ◆ Ships within one week

Accessories

Cap Fixed Clevis (MP1) Non-cushioned





Dimensions in Inches

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
CB	0.75	0.75	0.75	1.25	1.25
CD	0.5	0.5	0.5	0.75	0.75
CW	0.5	0.5	0.5	0.625	0.625
L	0.75	0.75	0.75	1.25	1.25
LB	3.625	3.625	3.75	4.25	4.25
LR	0.75	0.75	0.75	1.25	1.25
M	0.5	0.5	0.5	0.75	0.75
MR	0.625	0.625	0.625	0.938	0.938
XC	5.375	5.375	5.5	6.875	6.875



Models

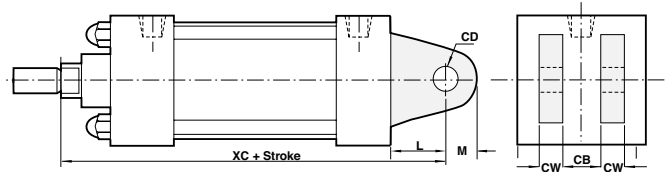
Accessories





Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight fitting	90° Elbow fitting	Tube O.D.	Piston seal kit
 SC01A-B06-EAA00	1-1/2	1	3/8			3/8	 SSK-03
SC02A-B06-EAA00	1-1/2	2	3/8	D24250638	D24450638	3/8	SSK-03
SC03A-B06-EAA00	1-1/2	3	3/8	D24250638	D24450638	3/8	SSK-03
SC04A-B06-EAA00	1-1/2	4	3/8	D24250638	D24450638	3/8	SSK-03
SC05A-B06-EAA00	1-1/2	5	3/8	D24250638	D24450638	3/8	SSK-03
SC06A-B06-EAA00	1-1/2	6	3/8	D24250638	D24450638	3/8	SSK-03
SC08A-B06-EAA00	1-1/2	8	3/8	D24250638	D24450638	3/8	SSK-03
SC10A-B06-EAA00	1-1/2	10	3/8	D24250638	D24450638	3/8	SSK-03
SD12A-B06-EAA00	1-1/2	12	3/8	D24250638	D24450638	3/8	SSK-04
SD01A-B06-EAA00	2	1	3/8	D24250638	D24450638	3/8	SSK-04
SD02A-B06-EAA00	2	2	3/8	D24250638	D24450638	3/8	SSK-04
SD03A-B06-EAA00	2	3	3/8	D24250638	D24450638	3/8	SSK-04
SD04A-B06-EAA00	2	4	3/8	D24250638	D24450638	3/8	SSK-04
SD05A-B06-EAA00	2	5	3/8	D24250638	D24450638	3/8	SSK-04
SD06A-B06-EAA00	2	6	3/8	D24250638	D24450638	3/8	SSK-04
SD08A-B06-EAA00	2	8	3/8	D24250638	D24450638	3/8	SSK-04
SD10A-B06-EAA00	2	10	3/8	D24250638	D24450638	3/8	SSK-04
SD12A-B06-EAA00	2	12	3/8	D24250638	D24450638	3/8	SSK-04
SE01A-B06-EAA00	2-1/2	1	3/8	D24250638	D24450638	3/8	SSK-05
SE02A-B06-EAA00	2-1/2	2	3/8	D24250638	D24450638	3/8	SSK-05
SE03A-B06-EAA00	2-1/2	3	3/8	D24250638	D24450638	3/8	SSK-05
SE04A-B06-EAA00	2-1/2	4	3/8	D24250638	D24450638	3/8	SSK-05
SE05A-B06-EAA00	2-1/2	5	3/8	D24250638	D24450638	3/8	SSK-05
SE06A-B06-EAA00	2-1/2	6	3/8	D24250638	D24450638	3/8	SSK-05
SE08A-B06-EAA00	2-1/2	8	3/8	D24250638	D24450638	3/8	SSK-05
SE10A-B06-EAA00	2-1/2	10	3/8	D24250638	D24450638	3/8	SSK-05
SE12A-B06-EAA00	2-1/2	12	3/8	D24250638	D24450638	3/8	SSK-05
SF01A-A06-EAA00	3-1/4	1	1/2	D24250748	D24450748	1/2	SSK-065
SF02A-A06-EAA00	3-1/4	2	1/2	D24250748	D24450748	1/2	SSK-065
SF03A-A06-EAA00	3-1/4	3	1/2	D24250748	D24450748	1/2	SSK-065
SF04A-A06-EAA00	3-1/4	4	1/2	D24250748	D24450748	1/2	SSK-065
SF05A-A06-EAA00	3-1/4	5	1/2	D24250748	D24450748	1/2	SSK-065
SF06A-A06-EAA00	3-1/4	6	1/2	D24250748	D24450748	1/2	SSK-065
SF08A-A06-EAA00	3-1/4	8	1/2	D24250748	D24450748	1/2	SSK-065
SF10A-A06-EAA00	3-1/4	10	1/2	D24250748	D24450748	1/2	SSK-065
SF12A-A06-EAA00	3-1/4	12	1/2	D24250748	D24450748	1/2	SSK-065
SG01A-A06-EAA00	4	1	1/2	D24250748	D24450748	1/2	SSK-08
SG02A-A06-EAA00	4	2	1/2	D24250748	D24450748	1/2	SSK-08
SG03A-A06-EAA00	4	3	1/2	D24250748	D24450748	1/2	SSK-08
SG04A-A06-EAA00	4	4	1/2	D24250748	D24450748	1/2	SSK-08
SG05A-A06-EAA00	4	5	1/2	D24250748	D24450748	1/2	SSK-08
SG06A-A06-EAA00	4	6	1/2	D24250748	D24450748	1/2	SSK-08
SG08A-A06-EAA00	4	8	1/2	D24250748	D24450748	1/2	SSK-08
SG10A-A06-EAA00	4	10	1/2	D24250748	D24450748	1/2	SSK-08
SG12A-A06-EAA00	4	12	1/2	D24250748	D24450748	1/2	SSK-08

- In stock
- ◆ Ships within one week

**Cap Fixed Clevis (MP1) Adjustable cushions**
**Dimensions in Inches**

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
CB	0.75	0.75	0.75	1.25	1.25
CD	0.5	0.5	0.5	0.75	0.75
CW	0.5	0.5	0.5	0.625	0.625
L	0.75	0.75	0.75	1.25	1.25
LB	3.625	3.625	3.75	4.25	4.25
LR	0.75	0.75	0.75	1.25	1.25
M	0.5	0.5	0.5	0.75	0.75
MR	0.625	0.625	0.625	0.938	0.938
XC	5.375	5.375	5.5	6.875	6.875


**Models**

Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Accessories		Tube O.D.	Piston seal kit
				Straight fitting	90° Elbow fitting		
							
SC01A-B06-EMA00	1-1/2	1	3/8	D24250638	D24450638	3/8	SSK-03
SC02A-B06-EMA00	1-1/2	2	3/8	D24250638	D24450638	3/8	SSK-03
SC03A-B06-EMA00	1-1/2	3	3/8	D24250638	D24450638	3/8	SSK-03
SC04A-B06-EMA00	1-1/2	4	3/8	D24250638	D24450638	3/8	SSK-03
SC05A-B06-EMA00	1-1/2	5	3/8	D24250638	D24450638	3/8	SSK-03
SC06A-B06-EMA00	1-1/2	6	3/8	D24250638	D24450638	3/8	SSK-03
SC08A-B06-EMA00	1-1/2	8	3/8	D24250638	D24450638	3/8	SSK-03
SC10A-B06-EMA00	1-1/2	10	3/8	D24250638	D24450638	3/8	SSK-03
SD12A-B06-EMA00	1-1/2	12	3/8	D24250638	D24450638	3/8	SSK-04
SD01A-B06-EMA00	2	1	3/8	D24250638	D24450638	3/8	SSK-04
SD02A-B06-EMA00	2	2	3/8	D24250638	D24450638	3/8	SSK-04
SD03A-B06-EMA00	2	3	3/8	D24250638	D24450638	3/8	SSK-04
SD04A-B06-EMA00	2	4	3/8	D24250638	D24450638	3/8	SSK-04
SD05A-B06-EMA00	2	5	3/8	D24250638	D24450638	3/8	SSK-04
SD06A-B06-EMA00	2	6	3/8	D24250638	D24450638	3/8	SSK-04
SD08A-B06-EMA00	2	8	3/8	D24250638	D24450638	3/8	SSK-04
SD10A-B06-EMA00	2	10	3/8	D24250638	D24450638	3/8	SSK-04
SD12A-B06-EMA00	2	12	3/8	D24250638	D24450638	3/8	SSK-04
SE01A-B06-EMA00	2-1/2	1	3/8	D24250638	D24450638	3/8	SSK-05
SE02A-B06-EMA00	2-1/2	2	3/8	D24250638	D24450638	3/8	SSK-05
SE03A-B06-EMA00	2-1/2	3	3/8	D24250638	D24450638	3/8	SSK-05
SE04A-B06-EMA00	2-1/2	4	3/8	D24250638	D24450638	3/8	SSK-05
SE05A-B06-EMA00	2-1/2	5	3/8	D24250638	D24450638	3/8	SSK-05
SE06A-B06-EMA00	2-1/2	6	3/8	D24250638	D24450638	3/8	SSK-05
SE08A-B06-EMA00	2-1/2	8	3/8	D24250638	D24450638	3/8	SSK-05
SE10A-B06-EMA00	2-1/2	10	3/8	D24250638	D24450638	3/8	SSK-05
SE12A-B06-EMA00	2-1/2	12	3/8	D24250638	D24450638	3/8	SSK-05
SF01A-A06-EMA00	3-1/4	1	1/2	D24250748	D24450748	1/2	SSK-065
SF02A-A06-EMA00	3-1/4	2	1/2	D24250748	D24450748	1/2	SSK-065
SF03A-A06-EMA00	3-1/4	3	1/2	D24250748	D24450748	1/2	SSK-065
SF04A-A06-EMA00	3-1/4	4	1/2	D24250748	D24450748	1/2	SSK-065
SF05A-A06-EMA00	3-1/4	5	1/2	D24250748	D24450748	1/2	SSK-065
SF06A-A06-EMA00	3-1/4	6	1/2	D24250748	D24450748	1/2	SSK-065
SF08A-A06-EMA00	3-1/4	8	1/2	D24250748	D24450748	1/2	SSK-065
SF10A-A06-EMA00	3-1/4	10	1/2	D24250748	D24450748	1/2	SSK-065
SF12A-A06-EMA00	3-1/4	12	1/2	D24250748	D24450748	1/2	SSK-065
SG01A-A06-EMA00	4	1	1/2	D24250748	D24450748	1/2	SSK-08
SG02A-A06-EMA00	4	2	1/2	D24250748	D24450748	1/2	SSK-08
SG03A-A06-EMA00	4	3	1/2	D24250748	D24450748	1/2	SSK-08
SG04A-A06-EMA00	4	4	1/2	D24250748	D24450748	1/2	SSK-08
SG05A-A06-EMA00	4	5	1/2	D24250748	D24450748	1/2	SSK-08
SG06A-A06-EMA00	4	6	1/2	D24250748	D24450748	1/2	SSK-08
SG08A-A06-EMA00	4	8	1/2	D24250748	D24450748	1/2	SSK-08
SG10A-A06-EMA00	4	10	1/2	D24250748	D24450748	1/2	SSK-08
SG12A-A06-EMA00	4	12	1/2	D24250748	D24450748	1/2	SSK-08

- In stock
- ◆ Ships within one week



## IVAC

INTEGRATED VALVE AND ACTUATOR CONTROL  
 PRA/88200 Series  
 32 TO 100MM BORE – UP TO 1,000MM STROKE LENGTH

WE'VE WORKED CLOSELY WITH CUSTOMERS IN KEY INDUSTRY SECTORS TO FULLY UNDERSTAND WHAT IMPROVEMENTS THEY WANTED FROM THEIR PNEUMATIC CONTROLS. THE RESPONSE HIGHLIGHTED A WIDESPREAD NEED FOR IMPROVED ENERGY EFFICIENCY, REDUCED DOWNTIME AND GREATER EASE OF USE.

THE IVAC NOW ANSWERS THESE NEEDS

A family of products incorporating proven technology, IVAC is a light weight, strong, actuator with integrated solenoid valve, cushion and speed control plus position sensors. The ISO/VDMA dimensions mean that it can be used to replace existing traditional systems, or used on new installations. Using IVAC rather than traditional components, energy consumption can be reduced by up to 50%.

The unit has been rigorously tested in operational conditions by customers in a wide range of industries.

THE UNIQUE PATENTED DESIGN DELIVERS SIGNIFICANT BENEFITS

### SAVES COST

- > Simplified specification and design, ordering, installation and maintenance
- > Only 1 air connection and 1 electrical connector per unit
- > Integrated sensor adjustment
- > Glandless spool valve for life expectancy of over 200 million cycles
- > Cleanline body offers simple washdown when used in critical applications

### SAVES ENERGY

- > Reduction in 'dead volume' of compressed air within system
- > Faster response times improve machine efficiency and increase production
- > Can achieve compressed air savings of up to 50% compared to conventional systems

CUT ENERGY CONSUMPTION BY UP TO 50%

FASTER RESPONSE TIMES



FULLY MODULAR DESIGN

**NFPA Interchangeable**  
**Adjustable cushion & magnetic piston**  
**standard**  
**Rated for 250 psi air**  
**Designed for non-lube service**



### TECHNICAL DATA

#### Medium:

Filtered compressed air to 250 PSI

#### Operating temperature:

-20°F to 200°F

#### Operating Pressure:

250 psig

**Bore Sizes:** 1-1/2", 2", 2-1/2",  
 3-1/4", 4"

#### Lubrication:

None required

#### Materials:

Head and end caps - black

anodized aluminum alloy

Tube: Aluminum, clear anodized

O.D., hard coat anodized I.D.

Piston Rod: Hard chrome plated  
 steel




Piston: Machined high-strength  
 aluminum alloy

Rod Bearings: Oil-impregnated  
 sintered iron

Seals: Nitrile

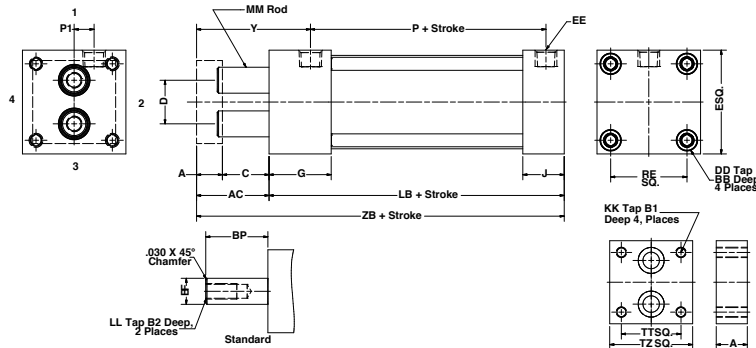
Tie Rods: High-tensile strength  
 steel

### Models

Bore	Eye bracket	Bore	Model	Type	Bore	Model	Type
1-1/2"	 49021 ●	3/4" - 2-1/2"	 CS8-2-04 ◆	Reed	2" - 4"	 CS7-04 ◆	Reed
2"	49021 ●	3/4" - 2-1/2"	CS8-2-31 ◆	Solid state (PNP)	2" - 4"	CS7-31 ◆	Solid state (PNP)
2-1/2"	49021 ●	3/4" - 2-1/2"	CS8-2-32 ◆	Solid state (NPN)	2" - 4"	CS7-32 ◆	Solid state (NPN)
3-1/4"	49020 ●						
4"	49020 ●						

### Accessories

### Basic Cylinder



### Dimensions in Inches

Bore	A	AC	B1	B2	BB	BF	BP	C	D	DD	E	EE	
1-1/2"	0.625	1.875	Thru	0.625	0.312	0.375	1.375	1.25	0.75	1/4 - 28	2	1/4	
2"	0.75	1.875	Thru	0.625	0.312	0.625	1.25	1.125	1.052	5/16 - 24	2.5	1/4	
2-1/2"	0.75	2.125	Thru	0.75	0.312	0.625	1.5	1.375	1.398	5/16 - 24	3	1/4	
3-1/4"	1.25	2.375	Thru	1	0.437	1	1.25	1.125	2	3/8 - 24	3.75	3/8	
4"	1.25	2.375	Thru	1	0.437	1	1.25	1.125	2.36	3/8 - 24	4.5	3/8	
Bore	G	J	KK	LB	LL	MM	P	P1	RE	TT	TZ	Y	ZB
1-1/2"	1.5	1	10 - 32	3.625	5/16 - 24	0.375	2.125	0.303	1.428	1.125	1.5	2.875	5.5
2"	1.5	1	1/4 - 28	3.625	5/16 - 24	0.625	2.125	0.48	1.84	1.43	2	2.875	5.5
2-1/2"	1.5	1	5/16 - 24	3.75	3/8 - 24	0.625	2.25	0.635	2.192	1.84	2.5	3.125	5.875
3-1/4"	1.75	1.25	3/8 - 24	4.25	1/2 - 20	1	2.625	0.845	2.758	1.76	3.25	3.437	6.625
4"	1.75	1.25	3/8 - 24	4.25	1/2 - 20	1	2.625	0.875	3.323	3.44	4	3.437	6.625

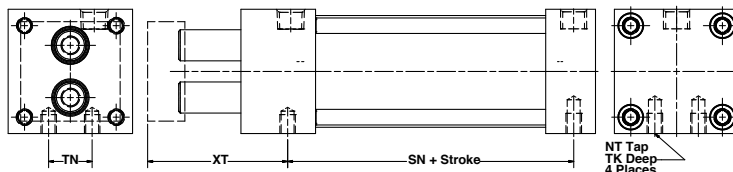
● In stock

◆ Ships within one week

Bottom Tapped (MS4) Cushioned

Dimensions in Inches

Bore	NT	SN	TK	TN	XT
1-1/2"	1/4 - 20	2.25	0.375	0.625	2.812
2"	5/16 - 18	2.25	0.375	0.875	2.812
2-1/2"	3/8 - 16	2.375	0.625	1.25	3.063
3-1/4"	1/2 - 13	2.625	0.625	1.5	3.437
4"	1/2 - 13	2.625	0.75	2.063	3.437



Models

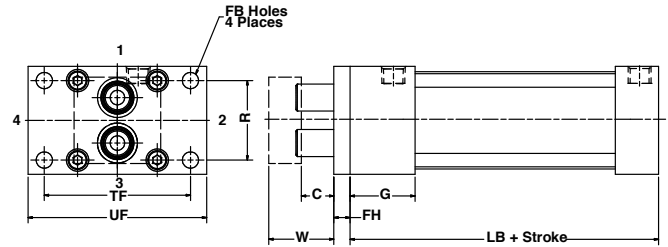
Bottom Tap Horizontal Rods		Bottom Tap Vertical Rods		Cylinder Bore Ø	Stroke Inches	Port size NPT	Accessories			Piston Seal kit
Model number	Model number	Model number	Model number				Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	
NC01A-E02-AMCMO	NC01A-N02-AMCMO	NC01A-E02-AMCMO	NC01A-N02-AMCMO	1-1/2	1	1/4	C24250428	C24470428	C2VA00428	1/4 NCSK-03
NC02A-E02-AMCMO	NC02A-N02-AMCMO	NC02A-E02-AMCMO	NC02A-N02-AMCMO	1-1/2	2	1/4	C24250428	C24470428	C2VA00428	1/4 NCSK-03
NC03A-E02-AMCMO	NC03A-N02-AMCMO	NC03A-E02-AMCMO	NC03A-N02-AMCMO	1-1/2	3	1/4	C24250428	C24470428	C2VA00428	1/4 NCSK-03
NC04A-E02-AMCMO	NC04A-N02-AMCMO	NC04A-E02-AMCMO	NC04A-N02-AMCMO	1-1/2	4	1/4	C24250428	C24470428	C2VA00428	1/4 NCSK-03
NC05A-E02-AMCMO	NC05A-N02-AMCMO	NC05A-E02-AMCMO	NC05A-N02-AMCMO	1-1/2	5	1/4	C24250428	C24470428	C2VA00428	1/4 NCSK-03
NC06A-E02-AMCMO	NC06A-N02-AMCMO	NC06A-E02-AMCMO	NC06A-N02-AMCMO	1-1/2	6	1/4	C24250428	C24470428	C2VA00428	1/4 NCSK-03
NC08A-E02-AMCMO	NC08A-N02-AMCMO	NC08A-E02-AMCMO	NC08A-N02-AMCMO	1-1/2	8	1/4	C24250428	C24470428	C2VA00428	1/4 NCSK-03
NC10A-E02-AMCMO	NC10A-N02-AMCMO	NC10A-E02-AMCMO	NC10A-N02-AMCMO	1-1/2	10	1/4	C24250428	C24470428	C2VA00428	1/4 NCSK-03
NC12A-E02-AMCMO	NC12A-N02-AMCMO	NC12A-E02-AMCMO	NC12A-N02-AMCMO	1-1/2	12	1/4	C24250428	C24470428	C2VA00428	1/4 NCSK-03
ND01A-E02-AMCMO	ND01A-N02-AMCMO	ND01A-E02-AMCMO	ND01A-N02-AMCMO	2	1	1/4	C24250428	C24470428	C2VA00428	1/4 NCSK-04
ND02A-E02-AMCMO	ND02A-N02-AMCMO	ND02A-E02-AMCMO	ND02A-N02-AMCMO	2	2	1/4	C24250428	C24470428	C2VA00428	1/4 NCSK-04
ND03A-E02-AMCMO	ND03A-N02-AMCMO	ND03A-E02-AMCMO	ND03A-N02-AMCMO	2	3	1/4	C24250428	C24470428	C2VA00428	1/4 NCSK-04
ND04A-E02-AMCMO	ND04A-N02-AMCMO	ND04A-E02-AMCMO	ND04A-N02-AMCMO	2	4	1/4	C24250428	C24470428	C2VA00428	1/4 NCSK-04
ND05A-E02-AMCMO	ND05A-N02-AMCMO	ND05A-E02-AMCMO	ND05A-N02-AMCMO	2	5	1/4	C24250428	C24470428	C2VA00428	1/4 NCSK-04
ND06A-E02-AMCMO	ND06A-N02-AMCMO	ND06A-E02-AMCMO	ND06A-N02-AMCMO	2	6	1/4	C24250428	C24470428	C2VA00428	1/4 NCSK-04
ND08A-E02-AMCMO	ND08A-N02-AMCMO	ND08A-E02-AMCMO	ND08A-N02-AMCMO	2	8	1/4	C24250428	C24470428	C2VA00428	1/4 NCSK-04
ND10A-E02-AMCMO	ND10A-N02-AMCMO	ND10A-E02-AMCMO	ND10A-N02-AMCMO	2	10	1/4	C24250428	C24470428	C2VA00428	1/4 NCSK-04
ND12A-E02-AMCMO	ND12A-N02-AMCMO	ND12A-E02-AMCMO	ND12A-N02-AMCMO	2	12	1/4	C24250428	C24470428	C2VA00428	1/4 NCSK-04
NE01A-E02-AMCMO	NE01A-N02-AMCMO	NE01A-E02-AMCMO	NE01A-N02-AMCMO	2-1/2	1	1/4	C24250428	C24470428	C2VA00428	1/4 NCSK-05
NE02A-E02-AMCMO	NE02A-N02-AMCMO	NE02A-E02-AMCMO	NE02A-N02-AMCMO	2-1/2	2	1/4	C24250428	C24470428	C2VA00428	1/4 NCSK-05
NE03A-E02-AMCMO	NE03A-N02-AMCMO	NE03A-E02-AMCMO	NE03A-N02-AMCMO	2-1/2	3	1/4	C24250428	C24470428	C2VA00428	1/4 NCSK-05
NE04A-E02-AMCMO	NE04A-N02-AMCMO	NE04A-E02-AMCMO	NE04A-N02-AMCMO	2-1/2	4	1/4	C24250428	C24470428	C2VA00428	1/4 NCSK-05
NE05A-E02-AMCMO	NE05A-N02-AMCMO	NE05A-E02-AMCMO	NE05A-N02-AMCMO	2-1/2	5	1/4	C24250428	C24470428	C2VA00428	1/4 NCSK-05
NE06A-E02-AMCMO	NE06A-N02-AMCMO	NE06A-E02-AMCMO	NE06A-N02-AMCMO	2-1/2	6	1/4	C24250428	C24470428	C2VA00428	1/4 NCSK-05
NE08A-E02-AMCMO	NE08A-N02-AMCMO	NE08A-E02-AMCMO	NE08A-N02-AMCMO	2-1/2	8	1/4	C24250428	C24470428	C2VA00428	1/4 NCSK-05
NE10A-E02-AMCMO	NE10A-N02-AMCMO	NE10A-E02-AMCMO	NE10A-N02-AMCMO	2-1/2	10	1/4	C24250428	C24470428	C2VA00428	1/4 NCSK-05
NE12A-E02-AMCMO	NE12A-N02-AMCMO	NE12A-E02-AMCMO	NE12A-N02-AMCMO	2-1/2	12	1/4	C24250428	C24470428	C2VA00428	1/4 NCSK-05
NF01A-E02-AMCMO	NF01A-N02-AMCMO	NF01A-E02-AMCMO	NF01A-N02-AMCMO	3-1/4	1	3/8	C24250638	C24470638	C2VA00638	3/8 NCSK-065
NF02A-E02-AMCMO	NF02A-N02-AMCMO	NF02A-E02-AMCMO	NF02A-N02-AMCMO	3-1/4	2	3/8	C24250638	C24470638	C2VA00638	3/8 NCSK-065
NF03A-E02-AMCMO	NF03A-N02-AMCMO	NF03A-E02-AMCMO	NF03A-N02-AMCMO	3-1/4	3	3/8	C24250638	C24470638	C2VA00638	3/8 NCSK-065
NF04A-E02-AMCMO	NF04A-N02-AMCMO	NF04A-E02-AMCMO	NF04A-N02-AMCMO	3-1/4	4	3/8	C24250638	C24470638	C2VA00638	3/8 NCSK-065
NF05A-E02-AMCMO	NF05A-N02-AMCMO	NF05A-E02-AMCMO	NF05A-N02-AMCMO	3-1/4	5	3/8	C24250638	C24470638	C2VA00638	3/8 NCSK-065
NF06A-E02-AMCMO	NF06A-N02-AMCMO	NF06A-E02-AMCMO	NF06A-N02-AMCMO	3-1/4	6	3/8	C24250638	C24470638	C2VA00638	3/8 NCSK-065
NF08A-E02-AMCMO	NF08A-N02-AMCMO	NF08A-E02-AMCMO	NF08A-N02-AMCMO	3-1/4	8	3/8	C24250638	C24470638	C2VA00638	3/8 NCSK-065
NF10A-E02-AMCMO	NF10A-N02-AMCMO	NF10A-E02-AMCMO	NF10A-N02-AMCMO	3-1/4	10	3/8	C24250638	C24470638	C2VA00638	3/8 NCSK-065
NF12A-E02-AMCMO	NF12A-N02-AMCMO	NF12A-E02-AMCMO	NF12A-N02-AMCMO	3-1/4	12	3/8	C24250638	C24470638	C2VA00638	3/8 NCSK-065
NG01A-E02-AMCMO	NG01A-N02-AMCMO	NG01A-E02-AMCMO	NG01A-N02-AMCMO	4	1	3/8	C24250638	C24470638	C2VA00638	3/8 NCSK-08
NG02A-E02-AMCMO	NG02A-N02-AMCMO	NG02A-E02-AMCMO	NG02A-N02-AMCMO	4	2	3/8	C24250638	C24470638	C2VA00638	3/8 NCSK-08
NG03A-E02-AMCMO	NG03A-N02-AMCMO	NG03A-E02-AMCMO	NG03A-N02-AMCMO	4	3	3/8	C24250638	C24470638	C2VA00638	3/8 NCSK-08
NG04A-E02-AMCMO	NG04A-N02-AMCMO	NG04A-E02-AMCMO	NG04A-N02-AMCMO	4	4	3/8	C24250638	C24470638	C2VA00638	3/8 NCSK-08
NG05A-E02-AMCMO	NG05A-N02-AMCMO	NG05A-E02-AMCMO	NG05A-N02-AMCMO	4	5	3/8	C24250638	C24470638	C2VA00638	3/8 NCSK-08
NG06A-E02-AMCMO	NG06A-N02-AMCMO	NG06A-E02-AMCMO	NG06A-N02-AMCMO	4	6	3/8	C24250638	C24470638	C2VA00638	3/8 NCSK-08
NG08A-E02-AMCMO	NG08A-N02-AMCMO	NG08A-E02-AMCMO	NG08A-N02-AMCMO	4	8	3/8	C24250638	C24470638	C2VA00638	3/8 NCSK-08
NG10A-E02-AMCMO	NG10A-N02-AMCMO	NG10A-E02-AMCMO	NG10A-N02-AMCMO	4	10	3/8	C24250638	C24470638	C2VA00638	3/8 NCSK-08
NG12A-E02-AMCMO	NG12A-N02-AMCMO	NG12A-E02-AMCMO	NG12A-N02-AMCMO	4	12	3/8	C24250638	C24470638	C2VA00638	3/8 NCSK-08

- In stock
- ◆ Ships within one week

**Front Flange (MF1) Cushioned**

**Dimensions in Inches**

Bore	C	FB	FH	R	TF	UF	W
1-1/2"	0.875	0.312	0.375	1.43	2.75	3.75	1.5
2"	0.75	0.375	0.375	1.84	3.375	4.125	1.5
2-1/2"	1	0.375	0.375	2.19	3.875	4.625	1.75
3-1/4"	0.5	0.437	0.625	2.76	4.688	5.5	1.75
4"	0.5	0.437	0.625	3.32	5.437	6.25	1.75



**Models**

Front Flange Horizontal Rods Model number	Front Flange Vertical Rods Model number	Cylinder Bore Ø	Stroke Inches	Port size NPT
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**Accessories**

Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	Tube O.D.	Piston Seal kit
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NC01A-E04-AMCMO	NC01A-N04-AMCMO	1-1/2	1	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-03
NC02A-E04-AMCMO	NC02A-N04-AMCMO	1-1/2	2	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-03
NC03A-E04-AMCMO	NC03A-N04-AMCMO	1-1/2	3	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-03
NC04A-E04-AMCMO	NC04A-N04-AMCMO	1-1/2	4	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-03
NC05A-E04-AMCMO	NC05A-N04-AMCMO	1-1/2	5	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-03
NC06A-E04-AMCMO	NC06A-N04-AMCMO	1-1/2	6	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-03
NC08A-E04-AMCMO	NC08A-N04-AMCMO	1-1/2	8	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-03
NC10A-E04-AMCMO	NC10A-N04-AMCMO	1-1/2	10	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-03
NC12A-E04-AMCMO	NC12A-N04-AMCMO	1-1/2	12	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-03
ND01A-E04-AMCMO	ND01A-N04-AMCMO	2	1	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-04
ND02A-E04-AMCMO	ND02A-N04-AMCMO	2	2	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-04
ND03A-E04-AMCMO	ND03A-N04-AMCMO	2	3	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-04
ND04A-E04-AMCMO	ND04A-N04-AMCMO	2	4	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-04
ND05A-E04-AMCMO	ND05A-N04-AMCMO	2	5	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-04
ND06A-E04-AMCMO	ND06A-N04-AMCMO	2	6	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-04
ND08A-E04-AMCMO	ND08A-N04-AMCMO	2	8	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-04
ND10A-E04-AMCMO	ND10A-N04-AMCMO	2	10	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-04
ND12A-E04-AMCMO	ND12A-N04-AMCMO	2	12	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-04
NE01A-E04-AMCMO	NE01A-N04-AMCMO	2-1/2	1	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-05
NE04A-E04-AMCMO	NE04A-N04-AMCMO	2-1/2	2	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-05
NE03A-E04-AMCMO	NE03A-N04-AMCMO	2-1/2	3	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-05
NE04A-E04-AMCMO	NE04A-N04-AMCMO	2-1/2	4	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-05
NE05A-E04-AMCMO	NE05A-N04-AMCMO	2-1/2	5	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-05
NE06A-E04-AMCMO	NE06A-N04-AMCMO	2-1/2	6	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-05
NE08A-E04-AMCMO	NE08A-N04-AMCMO	2-1/2	8	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-05
NE10A-E04-AMCMO	NE10A-N04-AMCMO	2-1/2	10	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-05
NE12A-E04-AMCMO	NE12A-N04-AMCMO	2-1/2	12	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-05
NF01A-E04-AMCMO	NF01A-N04-AMCMO	3-1/4	1	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-065
NF02A-E04-AMCMO	NF02A-N04-AMCMO	3-1/4	2	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-065
NF03A-E04-AMCMO	NF03A-N04-AMCMO	3-1/4	3	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-065
NF04A-E04-AMCMO	NF04A-N04-AMCMO	3-1/4	4	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-065
NF05A-E04-AMCMO	NF05A-N04-AMCMO	3-1/4	5	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-065
NF06A-E04-AMCMO	NF06A-N04-AMCMO	3-1/4	6	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-065
NF08A-E04-AMCMO	NF08A-N04-AMCMO	3-1/4	8	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-065
NF10A-E04-AMCMO	NF10A-N04-AMCMO	3-1/4	10	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-065
NF12A-E04-AMCMO	NF12A-N04-AMCMO	3-1/4	12	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-065
NG01A-E04-AMCMO	NG01A-N04-AMCMO	4	1	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-08
NG02A-E04-AMCMO	NG02A-N04-AMCMO	4	2	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-08
NG03A-E04-AMCMO	NG03A-N04-AMCMO	4	3	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-08
NG04A-E04-AMCMO	NG04A-N04-AMCMO	4	4	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-08
NG05A-E04-AMCMO	NG05A-N04-AMCMO	4	5	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-08
NG06A-E04-AMCMO	NG06A-N04-AMCMO	4	6	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-08
NG08A-E04-AMCMO	NG08A-N04-AMCMO	4	8	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-08
NG10A-E04-AMCMO	NG10A-N04-AMCMO	4	10	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-08
NG12A-E04-AMCMO	NG12A-N04-AMCMO	4	12	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-08

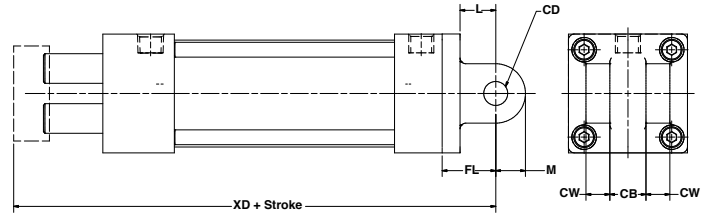
- In stock
- ◆ Ships within one week



Detachable Clevis (MP2) Cushioned

Dimensions in Inches

Bore	CB	CD	CW	FL	L	M	XD
1-1/8"	0.375	0.375	0.25	1.125	0.625	0.375	4.875
1-1/2"	0.75	0.5	0.5	1.125	0.75	0.625	6.625
2"	0.75	0.5	0.5	1.125	0.75	0.625	6.625
2-1/2"	0.75	0.5	0.5	1.125	0.75	0.625	7
3-1/4"	1.25	0.75	0.625	1.875	1.25	0.875	8.5
4"	1.25	0.75	0.625	1.875	1.25	0.875	8.5



Models

Detachable Clevis Horizontal Rods Model number	Detachable Clevis Vertical Rods Model number	Cylinder Bore Ø	Stroke Inches	Port size NPT
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Accessories

Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	Tube O.D.	Piston Seal kit
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NC01A-E07-AMCMO	NC01A-N07-AMCMO	1-1/2	1	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-03
NC02A-E07-AMCMO	NC02A-N07-AMCMO	1-1/2	2	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-03
NC03A-E07-AMCMO	NC03A-N07-AMCMO	1-1/2	3	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-03
NC04A-E07-AMCMO	NC04A-N07-AMCMO	1-1/2	4	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-03
NC05A-E07-AMCMO	NC05A-N07-AMCMO	1-1/2	5	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-03
NC06A-E07-AMCMO	NC06A-N07-AMCMO	1-1/2	6	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-03
NC08A-E07-AMCMO	NC08A-N07-AMCMO	1-1/2	8	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-03
NC10A-E07-AMCMO	NC10A-N07-AMCMO	1-1/2	10	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-03
NC12A-E07-AMCMO	NC12A-N07-AMCMO	1-1/2	12	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-03
ND01A-E07-AMCMO	ND01A-N07-AMCMO	2	1	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-04
ND02A-E07-AMCMO	ND02A-N07-AMCMO	2	2	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-04
ND03A-E07-AMCMO	ND03A-N07-AMCMO	2	3	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-04
ND04A-E07-AMCMO	ND04A-N07-AMCMO	2	4	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-04
ND05A-E07-AMCMO	ND05A-N07-AMCMO	2	5	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-04
ND06A-E07-AMCMO	ND06A-N07-AMCMO	2	6	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-04
ND08A-E07-AMCMO	ND08A-N07-AMCMO	2	8	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-04
ND10A-E07-AMCMO	ND10A-N07-AMCMO	2	10	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-04
ND12A-E07-AMCMO	ND12A-N07-AMCMO	2	12	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-04
NE01A-E07-AMCMO	NE01A-N07-AMCMO	2-1/2	1	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-05
NE07A-E07-AMCMO	NE07A-N07-AMCMO	2-1/2	2	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-05
NE03A-E07-AMCMO	NE03A-N07-AMCMO	2-1/2	3	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-05
NE04A-E07-AMCMO	NE04A-N07-AMCMO	2-1/2	4	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-05
NE05A-E07-AMCMO	NE05A-N07-AMCMO	2-1/2	5	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-05
NE06A-E07-AMCMO	NE06A-N07-AMCMO	2-1/2	6	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-05
NE08A-E07-AMCMO	NE08A-N07-AMCMO	2-1/2	8	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-05
NE10A-E07-AMCMO	NE10A-N07-AMCMO	2-1/2	10	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-05
NE12A-E07-AMCMO	NE12A-N07-AMCMO	2-1/2	12	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-05
NF01A-E07-AMCMO	NF01A-N07-AMCMO	3-1/4	1	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-065
NF02A-E07-AMCMO	NF02A-N07-AMCMO	3-1/4	2	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-065
NF03A-E07-AMCMO	NF03A-N07-AMCMO	3-1/4	3	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-065
NF04A-E07-AMCMO	NF04A-N07-AMCMO	3-1/4	4	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-065
NF05A-E07-AMCMO	NF05A-N07-AMCMO	3-1/4	5	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-065
NF06A-E07-AMCMO	NF06A-N07-AMCMO	3-1/4	6	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-065
NF08A-E07-AMCMO	NF08A-N07-AMCMO	3-1/4	8	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-065
NF10A-E07-AMCMO	NF10A-N07-AMCMO	3-1/4	10	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-065
NF12A-E07-AMCMO	NF12A-N07-AMCMO	3-1/4	12	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-065
NG01A-E07-AMCMO	NG01A-N07-AMCMO	4	1	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-08
NG02A-E07-AMCMO	NG02A-N07-AMCMO	4	2	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-08
NG03A-E07-AMCMO	NG03A-N07-AMCMO	4	3	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-08
NG04A-E07-AMCMO	NG04A-N07-AMCMO	4	4	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-08
NG05A-E07-AMCMO	NG05A-N07-AMCMO	4	5	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-08
NG06A-E07-AMCMO	NG06A-N07-AMCMO	4	6	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-08
NG08A-E07-AMCMO	NG08A-N07-AMCMO	4	8	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-08
NG10A-E07-AMCMO	NG10A-N07-AMCMO	4	10	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-08
NG12A-E07-AMCMO	NG12A-N07-AMCMO	4	12	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-08

- In stock
- ◆ Ships within one week

Conforms to ISO 15552, ISO 6431,  
VDMA 24562 and NFE 49-003-1  
High performance, ruggedness and reliability  
Extensive range of mountings



**Technical Data**

**Medium:**

Compressed air, filtered,  
lubricated or non-lubricated

**Standard:**

Conforms to ISO 15552, ISO  
6431, VDMA 24562,  
NFE 49-003-1 and corresponding  
BS

**Operation:**

DA/8000/M double acting,  
magnetic piston, adjustable  
cushioning

**Operating pressure:**

15 to 232 psig (1 to 16 bar)

**Operating temperature:**

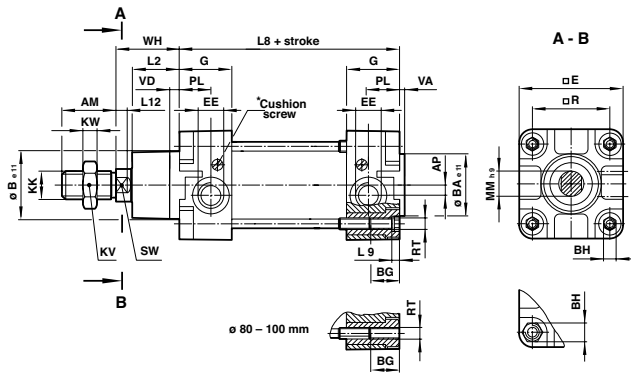
-4°F to +176°F  
(-20°C to +80°C) max.  
Consult our Technical Service for use  
below +35°F (+2°C)

**Materials**

Barrel: anodized aluminum  
End covers: pressure diecast  
aluminum  
Piston rod: 303 stainless steel  
Piston rod seals: polyurethane  
Piston seals: polyurethane  
'O'-rings: nitrile rubber

**Accessories**

Bore	Eye bracket (hinge)	Rod clevis	Rod alignment coupler	Front/rear flange	Rod clevis
32	M/P19493 ●	QM/8025/25 ●	QM/8025/38 ●	QA/8032/22 ●	QA/8032/23 ●
40	M/P19494 ●	QM/8040/25 ●	QM/8040/38 ●	QA/8040/22 ●	QA/8040/23 ●
50	M/P19495 ●	QM/8050/25 ●	QM/8050/38 ●	QA/8050/22 ●	QA/8050/23 ●
63	M/P19496 ●	QM/8050/25 ●	QM/8050/38 ●	QA/8063/22 ●	QA/8063/23 ●
80	M/P19497 ●	QM/8080/25 ●	QM/8080/38 ●	QA/8080/22 ●	QA/8080/23 ●
100	M/P19498 ●	QM/8080/25 ●	QM/8080/38 ●	QA/8100/22 ●	QA/8100/23 ●



**M/50 switches\*\***

Switch P/N	Cable Material	Type	Bracket model no.
M/50/LSU/*V ●	PVC	Reed LED	QM/27/2/1 ◆
M/50/EAN/*V ●	PVC	Solid State Sinking (NPN) LED	QM/27/2/1 ◆
M/50/EAP/*V ●	PVC	Solid State Sourcing (PNP) LED	QM/27/2/1 ◆






\*Insert cable length 2m, 5m, 10m

**Dimensions in mm.**

Ø	AM	AP	Ø B e11	Ø BA e11	BG	BH (A/F)	E	EE	G	KK	KV (A/F)	KW	L2
32	22	3.5	30	30	18	6	47	G 1/8	27.5	M10x1.25	17	5	20
40	24	4.5	35	35	18	6	53	G 1/4	32	M12x1.25	19	6	22
50	32	6	40	40	18	8	65	G 1/4	31	M16x1.5	24	8	27
63	32	10	45	45	17.5	8	75	G 3/8	33	M16x1.5	24	8	29
80	40	8.5	45	45	21.5	19	95	G 3/8	33	M20x1.5	30	10	33
100	40	9	55	55	21.5	19	115	G 1/2	37	M20x1.5	30	10	36
Ø	L8	L9	L12	Ø MM h9	PL	R	RT	SW (A/F)	VA	VD	WH	Cylinder weight	
32	94	4	6	12	13	32.5	M 6	10	3	6	26	1.12 lb	0.13 lb
40	105	4	6.5	16	15	38	M 6	13	3.5	6	30	1.76 lb	0.18 lb
50	106	5	8	20	18.5	46.5	M 8	17	3.5	6	37	2.93 lb	0.26 lb
63	121	5	8	20	19	56.5	M 8	17	4	6	37	3.97 lb	0.29 lb
80	128	-	10	25	19	72	M 10	22	4	6	46	7.17 lb	0.44 lb
100	138	-	10	25	18	89	M 10	22	4	6	51	10.6 lb	0.51 lb

Models

Accessories

Model Number	Cylinder Bore Ø	Stroke inches	Port Size ISO G	Piston rod Ø	Straight fitting	Elbow fitting	Banjo flow control	Service kit
								
DA/8032/M/25 ●	32	25	G1/4	12	C02250618	C02470618	C0K510618	QA/8032/00
DA/8032/M/50 ●	32	50	G1/4	12	C02250618	C02470618	C0K510618	QA/8032/00
DA/8032/M/75 ●	32	75	G1/4	12	C02250618	C02470618	C0K510618	QA/8032/00
DA/8032/M/100 ●	32	100	G1/4	12	C02250618	C02470618	C0K510618	QA/8032/00
DA/8032/M/125 ●	32	125	G1/4	12	C02250618	C02470618	C0K510618	QA/8032/00
DA/8032/M/150 ●	32	150	G1/4	12	C02250618	C02470618	C0K510618	QA/8032/00
DA/8032/M/200 ●	32	200	G1/4	12	C02250618	C02470618	C0K510618	QA/8032/00
DA/8032/M/250 ●	32	250	G1/4	12	C02250618	C02470618	C0K510618	QA/8032/00
DA/8032/M/300 ●	32	300	G1/4	12	C02250618	C02470618	C0K510618	QA/8032/00
DA/8040/M/25 ●	40	25	G1/4	16	C02250628	C02470628	C0K510628	QA/8040/00
DA/8040/M/50 ●	40	50	G1/4	16	C02250628	C02470628	C0K510628	QA/8040/00
DA/8040/M/75 ●	40	75	G1/4	16	C02250628	C02470628	C0K510628	QA/8040/00
DA/8040/M/100 ●	40	100	G1/4	16	C02250628	C02470628	C0K510628	QA/8040/00
DA/8040/M/125 ●	40	125	G1/4	16	C02250628	C02470628	C0K510628	QA/8040/00
DA/8040/M/150 ●	40	150	G1/4	16	C02250628	C02470628	C0K510628	QA/8040/00
DA/8040/M/200 ●	40	200	G1/4	16	C02250628	C02470628	C0K510628	QA/8040/00
DA/8040/M/250 ●	40	250	G1/4	16	C02250628	C02470628	C0K510628	QA/8040/00
DA/8040/M/300 ●	40	300	G1/4	16	C02250628	C02470628	C0K510628	QA/8040/00
DA/8050/M/25 ●	50	25	G1/4	20	C02250828	C02470828	C0K510828	QA/8050/00
DA/8050/M/50 ●	50	50	G1/4	20	C02250828	C02470828	C0K510828	QA/8050/00
DA/8050/M/75 ●	50	75	G1/4	20	C02250828	C02470828	C0K510828	QA/8050/00
DA/8050/M/100 ●	50	100	G1/4	20	C02250828	C02470828	C0K510828	QA/8050/00
DA/8050/M/125 ●	50	125	G1/4	20	C02250828	C02470828	C0K510828	QA/8050/00
DA/8050/M/150 ●	50	150	G1/4	20	C02250828	C02470828	C0K510828	QA/8050/00
DA/8050/M/200 ●	50	200	G1/4	20	C02250828	C02470828	C0K510828	QA/8050/00
DA/8050/M/250 ●	50	250	G1/4	20	C02250828	C02470828	C0K510828	QA/8050/00
DA/8050/M/300 ●	50	300	G1/4	20	C02250828	C02470828	C0K510828	QA/8050/00
DA/8063/M/25 ●	63	25	G3/8	20	C02250838	C02470838	C0K510838	QA/8063/00
DA/8063/M/50 ●	63	50	G3/8	20	C02250838	C02470838	C0K510838	QA/8063/00
DA/8063/M/75 ●	63	75	G3/8	20	C02250838	C02470838	C0K510838	QA/8063/00
DA/8063/M/100 ●	63	100	G3/8	20	C02250838	C02470838	C0K510838	QA/8063/00
DA/8063/M/125 ●	63	125	G3/8	20	C02250838	C02470838	C0K510838	QA/8063/00
DA/8063/M/150 ●	63	160	G3/8	20	C02250838	C02470838	C0K510838	QA/8063/00
DA/8063/M/200 ●	63	200	G3/8	20	C02250838	C02470838	C0K510838	QA/8063/00
DA/8063/M/250 ●	63	250	G3/8	20	C02250838	C02470838	C0K510838	QA/8063/00
DA/8063/M/300 ●	63	300	G3/8	20	C02250838	C02470838	C0K510838	QA/8063/00
DA/8080/M/25 ●	80	25	G3/8	25	C02251038	C02471038	C0K511038	QA/8080/00
DA/8080/M/50 ●	80	50	G3/8	25	C02251038	C02471038	C0K511038	QA/8080/00
DA/8080/M/75 ●	80	75	G3/8	25	C02251038	C02471038	C0K511038	QA/8080/00
DA/8080/M/100 ●	80	100	G3/8	25	C02251038	C02471038	C0K511038	QA/8080/00
DA/8080/M/125 ●	80	125	G3/8	25	C02251038	C02471038	C0K511038	QA/8080/00
DA/8080/M/160 ●	80	160	G3/8	25	C02251038	C02471038	C0K511038	QA/8080/00
DA/8080/M/200 ●	80	200	G3/8	25	C02251038	C02471038	C0K511038	QA/8080/00
DA/8080/M/250 ●	80	250	G3/8	25	C02251038	C02471038	C0K511038	QA/8080/00
DA/8080/M/300 ●	80	300	G3/8	25	C02251038	C02471038	C0K511038	QA/8080/00
DA/8100/M/25 ●	100	25	G1/2	25	C02251248	C02471248	C0K511248	QA/8100/00
DA/8100/M/50 ●	100	50	G1/2	25	C02251248	C02471248	C0K511248	QA/8100/00
DA/8100/M/75 ●	100	75	G1/2	25	C02251248	C02471248	C0K511248	QA/8100/00
DA/8100/M/100 ●	100	100	G1/2	25	C02251248	C02471248	C0K511248	QA/8100/00
DA/8100/M/125 ●	100	125	G1/2	25	C02251248	C02471248	C0K511248	QA/8100/00
DA/8100/M/150 ●	100	150	G1/2	25	C02251248	C02471248	C0K511248	QA/8100/00
DA/8100/M/200 ●	100	200	G1/2	25	C02251248	C02471248	C0K511248	QA/8100/00
DA/8100/M/250 ●	100	250	G1/2	25	C02251248	C02471248	C0K511248	QA/8100/00
DA/8100/M/300 ●	100	300	G1/2	25	C02251248	C02471248	C0K511248	QA/8100/00

- In stock
- ◆ Ships within one week

**Conforms to ISO 15552, ISO 6431, VDMA 24562 and NFE 49-003-1**

**Polyurethane seals ensure efficient low friction operation and long life**

**TECHNICAL DATA**

**Medium:**

Compressed air, filtered, lubricated or non-lubricated

**Standard:**

Conforms to ISO 15552, ISO 6431, VDMA 24562, NFE 49-003-1 and corresponding BS

**Operation:**

PDA/182000/M double acting, magnetic piston, adjustable cushioning

**Operating pressure:**

15 to 232 psig (1 to 16 bar)

**Operating temperature:**

-4°F to +176°F (-20°C to +80°C) max. Consult our Technical Service for use below +35°F (+2°C)

**Strokes:**

Standard, see table

**Materials**

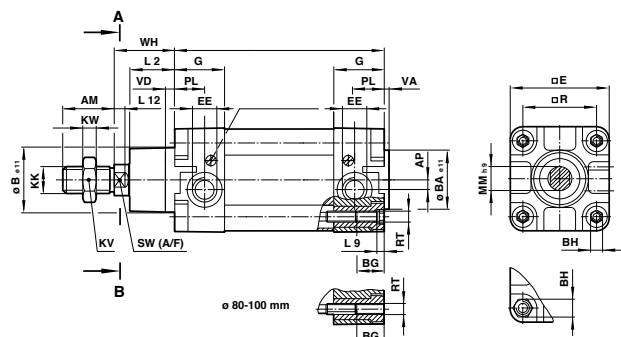
Barrel: anodized aluminum  
End covers: pressure diecast aluminium  
Piston rod: 303 stainless steel  
Piston rod seals: polyurethane  
Piston seals: polyurethane  
'O'-rings: nitrile rubber



**Accessories**

Bore	Eye bracket (hinge)	Rod clevis	Rod alignment coupler	Front/rear flange	Rod clevis
32	M/P19493 ●	QM/8025/25 ●	QM/8025/38 ●	QA/8032/22 ●	QA/8032/23 ●
40	M/P19494 ●	QM/8040/25 ●	QM/8040/38 ●	QA/8040/22 ●	QA/8040/23 ●
50	M/P19495 ●	QM/8050/25 ●	QM/8050/38 ●	QA/8050/22 ●	QA/8050/23 ●
63	M/P19496 ●	QM/8050/25 ●	QM/8050/38 ●	QA/8063/22 ●	QA/8063/23 ●
80	M/P19497 ●	QM/8080/25 ●	QM/8080/38 ●	QA/8080/22 ●	QA/8080/23 ●
100	M/P19498 ●	QM/8080/25 ●	QM/8080/38 ●	QA/8100/22 ●	QA/8100/23 ●

**Mounting kits**



**M/50 switches\*\***

Switch P/N	Cable Material	Type
M/50/LSU/*V ●	PVC	Reed LED
M/50/EAN/*V ●	PVC	Solid State Sinking (NPN) LED
M/50/EAP/*V ●	PVC	Solid State Sourcing (PNP) LED

\*Insert cable length 2m, 5m, 10m






**Dimensions in mm.**

Ø	AM	AP	Ø B e11	Ø BA e11	BG	BH (A/F)	E	EE	G	KK	KV (A/F)	KW	L2
32	22	3.5	30	30	18	6	47	G 1/8	27.5	M10 x 1.25	17	5	20
40	24	4.5	35	35	18	6	53	G 1/4	32	M12 x 1.25	19	6	22
50	32	6	40	40	18	8	65	G 1/4	31	M16 x 1.5	24	8	27
63	32	10	45	45	17.5	8	75	G 3/8	33	M16 x 1.5	24	8	29
80	40	8.5	45	45	21.5	19	95	G 3/8	33	M20 x 1.5	30	10	33
100	40	9	55	55	21.5	19	115	G 1/2	37	M20 x 1.5	30	10	36
Ø	L8	L9	L12	Ø MM h9	PL	... R	RT	SW (A/F)	VA	VD	WH	at 0 mm per	25 mm
32	94	4	6	12	13	32.5	M 6	10	3	6	26	1.12 lb	0.13 lb
40	105	4	6.5	16	15	38	M 6	13	3.5	6	30	1.80 lb	0.18 lb
50	106	5	8	20	18.5	46.5	M 8	17	3.5	6	37	2.93 lb	0.26 lb
63	121	5	8	20	19	56.5	M 8	17	4	6	37	3.97 lb	0.29 lb
80	128	-	10	25	19	72	M 10	22	4	6	46	7.17 lb	0.44 lb
100	138	-	10	25	18	89	M 10	22	4	6	51	10.6 lb	0.51 lb

- In stock
- ◆ Ships within one week

**Models**

**Accessories**

Model Number	Cylinder Bore Ø	Stroke inches	Port Size ISO G	Piston rod Ø	Straight fitting	90° Swivel Elbow fitting	Banjo flow control	Service kit
								
PDA/182032/M/25 ●	32	25	G1/8	12	C02250618	C02470618	C0K510618	QA/8032/00
PDA/182032/M/50 ●	32	50	G1/8	12	C02250618	C02470618	C0K510618	QA/8032/00
PDA/182032/M/75 ●	32	75	G1/8	12	C02250618	C02470618	C0K510618	QA/8032/00
PDA/182032/M/100 ●	32	100	G1/8	12	C02250618	C02470618	C0K510618	QA/8032/00
PDA/182032/M/125 ●	32	125	G1/8	12	C02250618	C02470618	C0K510618	QA/8032/00
PDA/182032/M/150 ●	32	150	G1/8	12	C02250618	C02470618	C0K510618	QA/8032/00
PDA/182032/M/200 ●	32	200	G1/8	12	C02250618	C02470618	C0K510618	QA/8032/00
PDA/182032/M/250 ●	32	250	G1/8	12	C02250618	C02470618	C0K510618	QA/8032/00
PDA/182032/M/300 ●	32	300	G1/8	12	C02250618	C02470618	C0K510618	QA/8032/00
PDA/182040/M/25 ●	40	25	G1/4	16	C02250628	C02470628	C0K510628	QA/8040/00
PDA/182040/M/50 ●	40	50	G1/4	16	C02250628	C02470628	C0K510628	QA/8040/00
PDA/182040/M/75 ●	40	75	G1/4	16	C02250628	C02470628	C0K510628	QA/8040/00
PDA/182040/M/100 ●	40	100	G1/4	16	C02250628	C02470628	C0K510628	QA/8040/00
PDA/182040/M/125 ●	40	125	G1/4	16	C02250628	C02470628	C0K510628	QA/8040/00
PDA/182040/M/150 ●	40	150	G1/4	16	C02250628	C02470628	C0K510628	QA/8040/00
PDA/182040/M/200 ●	40	200	G1/4	16	C02250628	C02470628	C0K510628	QA/8040/00
PDA/182040/M/250 ●	40	250	G1/4	16	C02250628	C02470628	C0K510628	QA/8040/00
PDA/182040/M/300 ●	40	300	G1/4	16	C02250628	C02470628	C0K510628	QA/8040/00
PDA/182050/M/25 ●	50	25	G1/4	20	C02250828	C02470828	C0K510828	QA/8050/00
PDA/182050/M/50 ●	50	50	G1/4	20	C02250828	C02470828	C0K510828	QA/8050/00
PDA/182050/M/75 ●	50	75	G1/4	20	C02250828	C02470828	C0K510828	QA/8050/00
PDA/182050/M/100 ●	50	100	G1/4	20	C02250828	C02470828	C0K510828	QA/8050/00
PDA/182050/M/125 ●	50	125	G1/4	20	C02250828	C02470828	C0K510828	QA/8050/00
PDA/182050/M/150 ●	50	150	G1/4	20	C02250828	C02470828	C0K510828	QA/8050/00
PDA/182050/M/200 ●	50	200	G1/4	20	C02250828	C02470828	C0K510828	QA/8050/00
PDA/182050/M/250 ●	50	250	G1/4	20	C02250828	C02470828	C0K510828	QA/8050/00
PDA/182050/M/300 ●	50	300	G1/4	20	C02250828	C02470828	C0K510828	QA/8050/00
PDA/182063/M/25 ●	63	25	G3/8	20	C02250838	C02470838	C0K510838	QA/8063/00
PDA/182063/M/50 ●	63	50	G3/8	20	C02250838	C02470838	C0K510838	QA/8063/00
PDA/182063/M/75 ●	63	75	G3/8	20	C02250838	C02470838	C0K510838	QA/8063/00
PDA/182063/M/100 ●	63	100	G3/8	20	C02250838	C02470838	C0K510838	QA/8063/00
PDA/182063/M/125 ●	63	125	G3/8	20	C02250838	C02470838	C0K510838	QA/8063/00
PDA/182063/M/150 ●	63	160	G3/8	20	C02250838	C02470838	C0K510838	QA/8063/00
PDA/182063/M/200 ●	63	200	G3/8	20	C02250838	C02470838	C0K510838	QA/8063/00
PDA/182063/M/250 ●	63	250	G3/8	20	C02250838	C02470838	C0K510838	QA/8063/00
PDA/182063/M/300 ●	63	300	G3/8	20	C02250838	C02470838	C0K510838	QA/8063/00
PDA/182080/M/25 ●	80	25	G3/8	25	C02251038	C02471038	C0K511038	QA/8080/00
PDA/182080/M/50 ●	80	50	G3/8	25	C02251038	C02471038	C0K511038	QA/8080/00
PDA/182080/M/75 ●	80	75	G3/8	25	C02251038	C02471038	C0K511038	QA/8080/00
PDA/182080/M/100 ●	80	100	G3/8	25	C02251038	C02471038	C0K511038	QA/8080/00
PDA/182080/M/125 ●	80	125	G3/8	25	C02251038	C02471038	C0K511038	QA/8080/00
PDA/182080/M/150 ●	80	160	G3/8	25	C02251038	C02471038	C0K511038	QA/8080/00
PDA/182080/M/200 ●	80	200	G3/8	25	C02251038	C02471038	C0K511038	QA/8080/00
PDA/182080/M/250 ●	80	250	G3/8	25	C02251038	C02471038	C0K511038	QA/8080/00
PDA/182080/M/300 ●	80	300	G3/8	25	C02251038	C02471038	C0K511038	QA/8080/00
PDA/182100/M/25 ●	100	25	G1/2	25	C02251248	C02471248	C0K511248	QA/8100/00
PDA/182100/M/50 ●	100	50	G1/2	25	C02251248	C02471248	C0K511248	QA/8100/00
PDA/182100/M/75 ●	100	75	G1/2	25	C02251248	C02471248	C0K511248	QA/8100/00
PDA/182100/M/100 ●	100	100	G1/2	25	C02251248	C02471248	C0K511248	QA/8100/00
PDA/182100/M/125 ●	100	125	G1/2	25	C02251248	C02471248	C0K511248	QA/8100/00
PDA/182100/M/150 ●	100	150	G1/2	25	C02251248	C02471248	C0K511248	QA/8100/00
PDA/182100/M/200 ●	100	200	G1/2	25	C02251248	C02471248	C0K511248	QA/8100/00
PDA/182100/M/250 ●	100	250	G1/2	25	C02251248	C02471248	C0K511248	QA/8100/00
PDA/182100/M/300 ●	100	300	G1/2	25	C02251248	C02471248	C0K511248	QA/8100/00

- In stock
- ◆ Ships within one week

**Full range of bore sizes**  
**All essential models**  
**Optional Ecology seal**

### TECHNICAL DATA

#### Medium:

Filtered, lubricated or non-lubricated, compressed air

#### Maximum Operating Pressure:

250 psig (17.2 bar)

#### Temperature Range\*:

Standard Nitrile Seals:  
-20° to 200°F (-29° to 93°C)

\*With dew point of supply air less than air temperature below 35°F (2°C)

#### Lubrication:

All Roundline Plus cylinders are pre-lubricated during assembly with a PTFE based grease for non-lube service and long life.

#### Materials:

Cylinder Body:  
304 Stainless Steel

Head and Cap:  
Aluminum Alloy

Piston Rod:  
Stainless steel in double rod cylinders, and 5/16", 7/16", and 9/16" bores. Chrome plated steel in all other bore sizes







Rod Bearing: Oil Impregnated Sintered Bronze

Piston: Aluminum Alloy or stainless steel

Rod & Piston Seals: Nitrile  
Pivot Bracket, Rod Clevis, Foot Bracket, Mounting Nut: Bright Zinc plated carbon steel

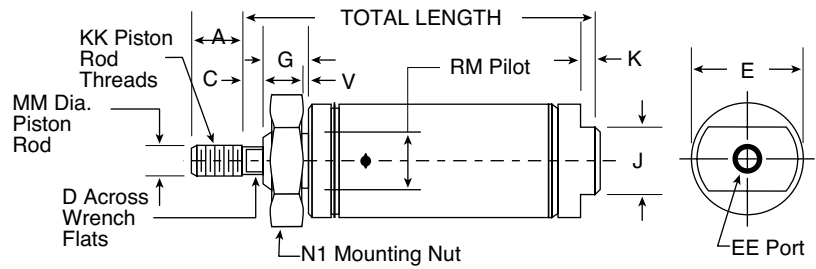


### Accessories

Bore	Pivot bracket	Rod Rod clevis	Foot bracket single acting	Foot bracket double acting	Mounting nut single acting	Mounting nut double acting
						
5/16	PB-0 ●	RC-0 ●	FB-0S ●	FB-0D ●	MN-0 ●	MN-1 ●
7/16	PB-1 ●	RC-1 ●	FB-1 ●	FB-2 ●	MN-1 ●	MN-2 ●
9/16	PB-1 ●	RC-1 ●	FB-2 ●	FB-2 ●	MN-2 ●	MN-2 ●
3/4	PB-2 ●	RC-2 ●	FB-3 ●	FB-4 ●	MN-3 ●	MN-4 ●
7/8	PB-2 ●	RC-2 ●	FB-4 ●	FB-4 ●	MN-4 ●	MN-4 ●
1-1/16	PB-2 ●	RC-3 ●	FB-4 ●	FB-4 ●	MN-4 ●	MN-4 ●
1-1/4	PB-2 ●	RC-4 ●	FB-5 ●	FB-5 ●	MN-5 ●	MN-5 ●
1-1/2	PB-3 ●	RC-4 ●	FB-5 ●	FB-5 ●	MN-5 ●	MN-5 ●
1-3/4	PB-4 ●	RC-5 ●	-	FB-5A ●	-	MN-5A ●
2	PB-4 ●	RC-5 ●	-	FB-6 ●	-	MN-6 ●
2-1/2	PB-4 ●	RC-5 ●	-	FB-7 ●	-	MN-7 ●
3	PB-5 ●	RC-6 ●	-	FB-8 ●	-	MN-8 ●

● In stock  
◆ Ships within one week

Single acting spring return  
with nose mount







Dimensions in Inches

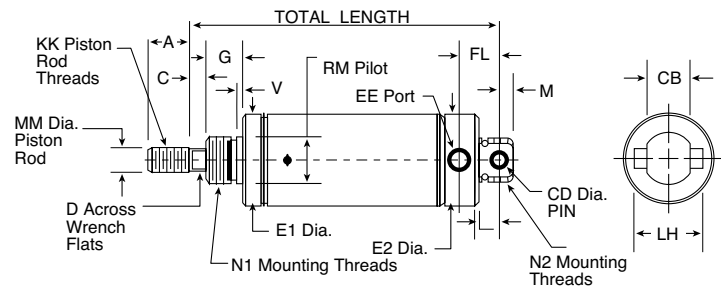
Bore	A	C	D	E	EE	G	J	K	KK	MM	N1	RM	V	Total Length
5/16"	0.38	N/A	N/A	0.36	10-32	0.25	N/A	N/A	5-40	0.125	1/4-28	.309/.312	0.03	1.12 + (0.75 per 1/2" of stroke)
7/16"	0.50	N/A	N/A	0.50	10-32	0.31	0.38	0.19	10-32	0.187	3/8-24	.369/.373	0.05	1.31 + (0.94 per 1/2" of stroke)
9/16"	0.50	N/A	N/A	0.62	10-32	0.38	0.50	0.19	10-32	0.187	7/16-20	.434/.437	0.06	1.53 + (1.62 per 1" of stroke)
3/4"	0.50	N/A	N/A	0.81	1/8 NPT	0.44	0.62	0.19	1/4-28	0.250	1/2-20	.494/.498	0.08	1.50 + (1.69 per 1" of stroke)
7/8"	0.50	N/A	N/A	0.94	1/8 NPT	0.50	0.62	0.19	1/4-28	0.250	5/8-18	.621/.624	0.09	1.84 + (1.56 per 1" of stroke)
1-1/16"	0.50	N/A	N/A	1.12	1/8 NPT	0.50	0.88	0.19	5/16-24	0.312	5/8-18	.621/.624	0.07	1.94 + (1.56 per 1" of stroke)
1-1/4"	0.75	0.25	0.38	1.34	1/8 NPT	0.63	0.88	0.25	7/16-20	0.437	3/4-16	.746/.749	0.09	2.66 + (1.81 per 1" of stroke)
1-1/2"	0.75	0.25	0.38	1.56	1/8 NPT	0.63	0.88	0.25	7/16-20	0.437	3/4-16	.746/.749	0.09	2.44 + (1.69 per 1" of stroke)

Models

Accessories

Model Number	Cylinder Bore Ø	Stroke inches	Port Size	Straight fitting	90° Swivel Elbow fitting	Banjo flow control	Tube O.D.
							
RP031X0.500-SAN	5/16	1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RP031X1.000-SAN	5/16	1	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RP031X1.500-SAN	5/16	1-1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RP031X2.000-SAN	5/16	2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RP031X2.500-SAN	5/16	2-1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RP031X3.000-SAN	5/16	3	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RP043X0.500-SAN	7/16	1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RP043X1.000-SAN	7/16	1	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RP043X1.500-SAN	7/16	1-1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RP043X2.000-SAN	7/16	2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RP043X2.500-SAN	7/16	2-1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RP043X3.000-SAN	7/16	3	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RP056X0.500-SAN	9/16	1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RP056X1.000-SAN	9/16	1	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RP056X1.500-SAN	9/16	1-1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RP056X2.000-SAN	9/16	2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RP056X2.500-SAN	9/16	2-1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RP056X3.000-SAN	9/16	3	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RP075X0.500-SAN	3/4	1/2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP075X1.000-SAN	3/4	1	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP075X1.500-SAN	3/4	1-1/2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP075X2.000-SAN	3/4	2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP075X2.500-SAN	3/4	2-1/2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP075X3.000-SAN	3/4	3	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP087X1.000-SAN	7/8	1	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP087X2.000-SAN	7/8	2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP087X3.000-SAN	7/8	3	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP087X4.000-SAN	7/8	4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP106X1.000-SAN	1-1/16	1	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP106X2.000-SAN	1-1/16	2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP106X3.000-SAN	1-1/16	3	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP106X4.000-SAN	1-1/16	4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP125X1.000-SAN	1-1/4	1	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP125X2.000-SAN	1-1/4	2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP125X3.000-SAN	1-1/4	3	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP125X4.000-SAN	1-1/4	4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP150X1.000-SAN	1-1/2	1	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP150X2.000-SAN	1-1/2	2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP150X3.000-SAN	1-1/2	3	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP150X4.000-SAN	1-1/2	4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4

**Single acting spring return  
with pivot mount**







**Dimensions in Inches**

Bore	A	CB	C	CD	D	E1	E2	EE	FL	G	KK	L	LH	M	MM	N1	N2	V	RM	Total Length
5/16"	0.38	0.25	N/A	0.125	N/A	0.36	0.36	10-32	0.34	0.25	5-40	0.19	N/A	0.16	0.125	1/4-28	3/8-24	0.03	.245/.249	1.52 + (.75 per 1/2" of stroke)
7/16"	0.50	0.31	N/A	0.156	N/A	0.50	0.74	10-32	0.44	0.31	10-32	0.25	0.50	0.25	0.187	3/8-24	7/16-20	0.05	.369/.373	1.75 + (.94 per 1/2" of stroke)
9/16"	0.50	0.31	N/A	0.156	N/A	0.62	0.62	10-32	0.38	0.38	10-32	0.25	N/A	0.19	0.187	7/16-20	7/16-20	0.06	.434/.437	1.81 + (1.62 per 1" of stroke)
3/4"	0.50	0.38	N/A	0.250	N/A	0.81	0.86	1/8 NPT	0.62	0.44	1/4-28	0.34	0.75	0.28	0.250	1/2-20	5/8-18	0.08	.494/.498	2.28 + (1.69 per 1" of stroke)
7/8"	0.50	0.38	N/A	0.250	N/A	0.94	0.94	1/8 NPT	0.62	0.50	1/4-28	0.34	0.75	0.28	0.250	5/8-18	5/8-18	0.09	.621/.624	2.47 + (1.56 per 1" of stroke)
1-1/16"	0.50	0.38	0.12	0.250	0.25	1.12	1.12	1/8 NPT	0.62	0.50	5/16-24	0.34	0.75	0.28	0.312	5/8-18	5/8-18	0.07	.621/.624	2.66 + (1.56 per 1" of stroke)
1-1/4"	0.75	0.50	0.25	0.250	0.38	1.34	1.34	1/8 NPT	0.78	0.63	7/16-20	0.41	N/A	0.40	0.437	3/4-16	3/4-16	0.09	.746/.749	3.38 + (1.81 per 1" of stroke)
1-1/2"	0.75	0.62	0.25	0.375	0.38	1.56	1.56	1/8 NPT	0.81	0.63	7/16-20	0.50	N/A	0.38	0.437	3/4-16	3/4-16	0.09	.746/.749	3.12 + (1.69 per 1" of stroke)

**Models**

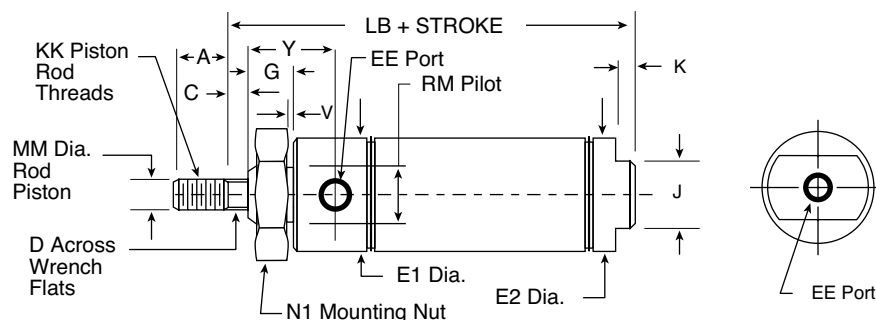
**Accessories**

Model Number	Cylinder Bore Ø	Stroke inches	Port Size	Straight fitting	90° Swivel Elbow fitting	Banjo flow control	Tube O.D.
	5/16	1/2	10-32 UNF				1/4
RP031X1.000-SAP	5/16	1	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RP031X1.500-SAP	5/16	1-1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RP031X2.000-SAP	5/16	2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RP031X2.500-SAP	5/16	2-1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RP031X3.000-SAP	5/16	3	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RP043X0.500-SAP	7/16	1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RP043X1.000-SAP	7/16	1	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RP043X1.500-SAP	7/16	1-1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RP043X2.000-SAP	7/16	2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RP043X2.500-SAP	7/16	2-1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RP043X3.000-SAP	7/16	3	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RP056X0.500-SAP	9/16	1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RP056X1.000-SAP	9/16	1	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RP056X1.500-SAP	9/16	1-1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RP056X2.000-SAP	9/16	2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RP056X2.500-SAP	9/16	2-1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RP056X3.000-SAP	9/16	3	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RP075X0.500-SAP	3/4	1/2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP075X1.000-SAP	3/4	1	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP075X1.500-SAP	3/4	1-1/2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP075X2.000-SAP	3/4	2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP075X2.500-SAP	3/4	2-1/2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP075X3.000-SAP	3/4	3	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP087X1.000-SAP	7/8	1	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP087X2.000-SAP	7/8	2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP087X3.000-SAP	7/8	3	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP087X4.000-SAP	7/8	4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP106X1.000-SAP	1-1/16	1	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP106X2.000-SAP	1-1/16	2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP106X3.000-SAP	1-1/16	3	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP106X4.000-SAP	1-1/16	4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP125X1.000-SAP	1-1/4	1	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP125X2.000-SAP	1-1/4	2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP125X3.000-SAP	1-1/4	3	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP125X4.000-SAP	1-1/4	4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP150X1.000-SAP	1-1/2	1	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP150X2.000-SAP	1-1/2	2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP150X3.000-SAP	1-1/2	3	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RP150X4.000-SAP	1-1/2	4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4

- In stock
- ◆ Ships within one week



Double acting with nose mount







Dimensions in Inches

Bore	A	C	D	EE	E1	E2	G	J	K	KK	LB	MM	N1	RM	Y	V
5/16"	0.38	N/A	N/A	10-32	0.61	0.36	0.31	0.36	N/A	5-40	1.64	0.125	3/8-24	.371/.373	0.47	0.03
7/16"	0.50	N/A	N/A	10-32	0.74	0.50	0.38	0.38	0.19	10-32	2.12	0.187	7/16-20	.434/.437	0.72	0.05
9/16"	0.50	N/A	N/A	10-32	0.62	0.62	0.38	0.50	0.19	10-32	2.28	0.187	7/16-20	.434/.437	0.75	0.06
3/4"	0.50	N/A	N/A	1/8 NPT	0.86	0.81	0.50	0.62	0.19	1/4-28	2.97	0.250	5/8-18	.621/.624	0.97	0.09
7/8"	0.50	N/A	N/A	1/8 NPT	0.94	0.94	0.50	0.62	0.19	1/4-28	2.94	0.250	5/8-18	.621/.624	0.97	0.09
1-1/16"	0.50	N/A	N/A	1/8 NPT	1.12	1.12	0.50	0.88	0.19	5/16-24	3.12	0.312	5/8-18	.621/.624	1.06	0.09
1-1/4"	0.75	0.25	0.38	1/8 NPT	1.34	1.34	0.63	0.88	0.25	7/16-20	4.00	0.437	3/4-16	.746/.749	1.37	0.09
1-1/2"	0.75	0.25	0.38	1/8 NPT	1.56	1.56	0.63	0.88	0.25	7/16-20	3.69	0.437	3/4-16	.746/.749	1.25	0.09
1-3/4"	0.88	0.31	0.44	1/4 NPT	1.84	1.84	0.75	1.25	0.25	1/2-20	4.69	0.500	1-14	1.029/1.032	1.63	0.09
2"	0.88	0.38	0.50	1/4 NPT	2.08	2.08	0.81	1.25	0.31	1/2-20	4.69	0.625	1-1/4-12	1.372/1.375	1.46	0.12
2-1/2"	0.88	0.38	0.50	1/4 NPT	2.59	2.59	0.81	1.75	0.31	1/2-20	4.69	0.625	1-3/8-12	1.497/1.500	1.46	0.12
3"	1.25	0.38	0.63	3/8 NPT	3.12	3.12	1.00	2.00	0.31	5/8-18	5.25	0.750	1-1/2-12	1.622/1.625	1.71	0.19





Models

Accessories

Model Number	Cylinder Bore Ø	Stroke inches	Port Size	Straight fitting	90° Swivel Elbow fitting	Banjo flow control	Tube O.D.
 RP031X0.500-DAN ●	5/16	1/2	10-32 UNF	 C24250410	 C24470410	 C2VA00410	1/4"
RP031X1.000-DAN ●	5/16	1	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP031X1.500-DAN ●	5/16	1-1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP031X2.000-DAN ●	5/16	2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP031X2.500-DAN ●	5/16	2-1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP031X3.000-DAN ●	5/16	3	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP031X4.000-DAN ●	5/16	4	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP031X5.000-DAN ●	5/16	5	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP031X6.000-DAN ●	5/16	6	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP043X0.500-DAN ●	7/16	1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP043X1.000-DAN ●	7/16	1	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP043X1.500-DAN ●	7/16	1-1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP043X2.000-DAN ●	7/16	2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP043X2.500-DAN ●	7/16	2-1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP043X3.000-DAN ●	7/16	3	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP043X4.000-DAN ●	7/16	4	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP043X5.000-DAN ●	7/16	5	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP043X6.000-DAN ●	7/16	6	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP056X0.500-DAN ●	9/16	1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP056X1.000-DAN ●	9/16	1	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP056X1.500-DAN ●	9/16	1-1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP056X2.000-DAN ●	9/16	2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP056X2.500-DAN ●	9/16	2-1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP056X3.000-DAN ●	9/16	3	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP056X4.000-DAN ●	9/16	4	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP056X5.000-DAN ●	9/16	5	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP056X6.000-DAN ●	9/16	6	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"

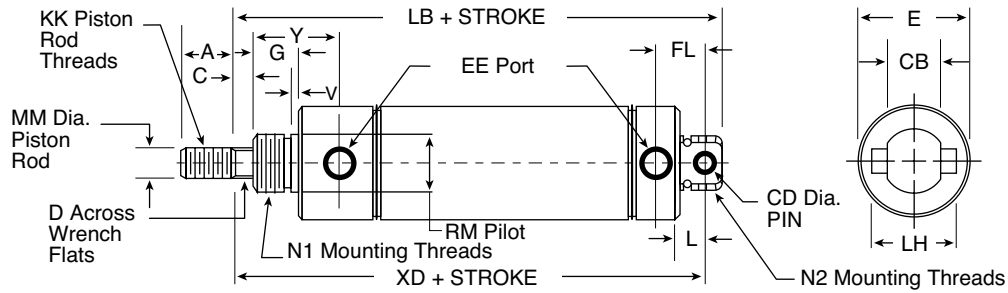
- In stock
- ◆ Ships within one week

**Double acting with nose mount (cont.)**

Models				Accessories			
Model Number	Cylinder Bore Ø	Stroke inches	Port Size	Straight fitting	90° Swivel Elbow fitting	Banjo flow control	Tube O.D.
							
RP075X0.500-DAN ●	3/4	1/2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP075X1.000-DAN ●	3/4	1	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP075X1.500-DAN ●	3/4	1-1/2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP075X2.000-DAN ●	3/4	2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP075X2.500-DAN ●	3/4	2-1/2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP075X3.000-DAN ●	3/4	3	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP075X4.000-DAN ●	3/4	4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP075X5.000-DAN ●	3/4	5	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP075X6.000-DAN ●	3/4	6	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP087X1.000-DAN ●	7/8	1	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP087X2.000-DAN ●	7/8	2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP087X3.000-DAN ●	7/8	3	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP087X4.000-DAN ●	7/8	4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP087X5.000-DAN ●	7/8	5	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP087X6.000-DAN ●	7/8	6	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP106X1.000-DAN ●	1-1/16	1	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP106X2.000-DAN ●	1-1/16	2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP106X3.000-DAN ●	1-1/16	3	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP106X4.000-DAN ●	1-1/16	4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP106X5.000-DAN ●	1-1/16	5	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP106X6.000-DAN ●	1-1/16	6	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP125X1.000-DAN ●	1-1/4	1	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP125X2.000-DAN ●	1-1/4	2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP125X3.000-DAN ●	1-1/4	3	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP125X4.000-DAN ●	1-1/4	4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP125X5.000-DAN ●	1-1/4	5	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP125X6.000-DAN ●	1-1/4	6	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP150X1.000-DAN ●	1-1/2	1	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP150X2.000-DAN ●	1-1/2	2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP150X3.000-DAN ●	1-1/2	3	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP150X4.000-DAN ●	1-1/2	4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP150X5.000-DAN ●	1-1/2	5	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP150X6.000-DAN ●	1-1/2	6	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP175X1.000-DAN ●	1-3/4	1	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP175X2.000-DAN ●	1-3/4	2	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP175X3.000-DAN ●	1-3/4	3	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP175X4.000-DAN ●	1-3/4	4	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP175X5.000-DAN ●	1-3/4	5	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP175X6.000-DAN ●	1-3/4	6	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP200X1.000-DAN ●	2	1	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP200X2.000-DAN ●	2	2	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP200X3.000-DAN ●	2	3	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP200X4.000-DAN ●	2	4	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP200X5.000-DAN ●	2	5	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP200X6.000-DAN ●	2	6	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP250X1.000-DAN ●	2-1/2	1	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP250X2.000-DAN ●	2-1/2	2	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP250X3.000-DAN ●	2-1/2	3	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP250X4.000-DAN ●	2-1/2	4	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP250X5.000-DAN ●	2-1/2	5	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP250X6.000-DAN ●	2-1/2	6	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP300X1.000-DAN ●	3	1	3/8 NPT	C24250638	C24470638	C2VA00638	3/8"
RP300X2.000-DAN ●	3	2	3/8 NPT	C24250638	C24470638	C2VA00638	3/8"
RP300X3.000-DAN ●	3	3	3/8 NPT	C24250638	C24470638	C2VA00638	3/8"
RP300X4.000-DAN ●	3	4	3/8 NPT	C24250638	C24470638	C2VA00638	3/8"
RP300X5.000-DAN ●	3	5	3/8 NPT	C24250638	C24470638	C2VA00638	3/8"
RP300X6.000-DAN ●	3	6	3/8 NPT	C24250638	C24470638	C2VA00638	3/8"

- In stock
- ◆ Ships within one week

Double acting with pivot mount







Dimensions in Inches

Bore	A	C	CB	CD	D	E	EE	FL	G	KK	L	LB	LH	MM	N1	N2	RM	V	XD	Y
5/16"	0.38	N/A	0.25	0.125	N/A	0.61	10-32	0.34	0.31	5-40	0.19	2.19	0.39	0.125	3/8-24	3/8-24	.371/.373	0.03	2.03	0.47
7/16"	0.50	N/A	0.31	0.156	N/A	0.74	10-32	0.44	0.38	10-32	0.25	2.81	0.50	0.187	7/16-20	7/16-20	.434/.437	0.05	2.56	0.72
9/16"	0.50	N/A	0.31	0.156	N/A	0.62	10-32	0.38	0.38	10-32	0.25	2.75	0.50	0.187	7/16-20	7/16-20	.434/.437	0.06	2.56	0.75
3/4"	0.50	N/A	0.38	0.250	N/A	0.86	1/8 NPT	0.62	0.50	1/4-28	0.34	4.03	0.75	0.250	5/8-18	5/8-18	.621/.624	0.09	3.75	0.97
7/8"	0.50	N/A	0.38	0.250	N/A	0.94	1/8 NPT	0.62	0.50	1/4-28	0.34	3.84	0.75	0.250	5/8-18	5/8-18	.621/.624	0.09	3.56	0.97
1-1/16"	0.50	0.12	0.38	0.250	0.25	1.12	1/8 NPT	0.62	0.50	5/16-24	0.34	4.12	0.75	0.312	5/8-18	5/8-18	.621/.624	0.09	3.84	1.07
1-1/4"	0.75	0.25	0.50	0.250	0.38	1.34	1/8 NPT	0.78	0.63	7/16-20	0.41	5.12	0.88	0.437	3/4-16	3/4-16	.746/.749	0.09	4.72	1.37
1-1/2"	0.75	0.25	0.62	0.375	0.38	1.56	1/8 NPT	0.81	0.63	7/16-20	0.50	4.75	1.00	0.437	3/4-16	3/4-16	.746/.749	0.09	4.38	1.25
1-3/4"	0.88	0.31	0.62	0.376	0.44	1.84	1/4 NPT	1.12	0.75	1/2-20	0.50	6.25	1.00	0.500	1-14	1-14	1.029/1.032	0.09	5.75	1.63
2"	0.88	0.38	0.75	0.375	0.50	2.08	1/4 NPT	1.03	0.81	1/2-20	0.56	6.06	1.63	0.625	1-1/4-12	1-1/4-12	1.372/1.375	0.12	5.62	1.54
2-1/2"	0.88	0.38	0.75	0.375	0.50	2.59	1/4 NPT	1.03	0.81	1/2-20	0.56	6.06	1.63	0.625	1-3/8-12	1-3/8-12	1.497/1.500	0.12	5.62	1.47
3"	1.25	0.38	0.88	0.500	0.63	3.12	3/8 NPT	1.34	1.00	5/8-18	0.81	7.12	1.90	0.750	1-1/2-12	1-1/2-12	1.622/1.625	0.19	6.50	1.71





Models

Accessories

Model Number	Cylinder Bore Ø	Stroke inches	Port Size	Straight fitting	90° Swivel Elbow fitting	Banjo flow control	Tube O.D.
 RP031X0.500-DAP	5/16	1/2	10-32 UNF				1/4"
RP031X1.000-DAP	5/16	1	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP031X1.500-DAP	5/16	1-1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP031X2.000-DAP	5/16	2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP031X2.500-DAP	5/16	2-1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP031X3.000-DAP	5/16	3	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP031X4.000-DAP	5/16	4	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP031X5.000-DAP	5/16	5	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP031X6.000-DAP	5/16	6	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP043X0.500-DAP	7/16	1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP043X1.000-DAP	7/16	1	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP043X1.500-DAP	7/16	1-1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP043X2.000-DAP	7/16	2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP043X2.500-DAP	7/16	2-1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP043X3.000-DAP	7/16	3	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP043X4.000-DAP	7/16	4	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP043X5.000-DAP	7/16	5	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP043X6.000-DAP	7/16	6	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP056X0.500-DAP	9/16	1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP056X1.000-DAP	9/16	1	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP056X1.500-DAP	9/16	1-1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP056X2.000-DAP	9/16	2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP056X2.500-DAP	9/16	2-1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP056X3.000-DAP	9/16	3	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP056X4.000-DAP	9/16	4	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP056X5.000-DAP	9/16	5	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP056X6.000-DAP	9/16	6	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"

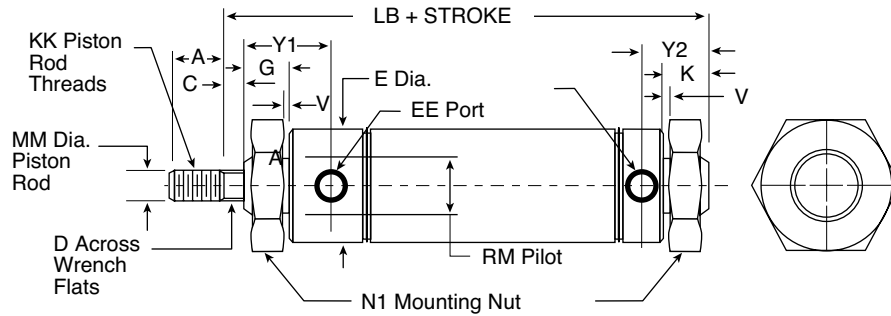
- In stock
- ◆ Ships within one week

**Double acting with pivot mount (cont.)**

Models			Accessories				
Model Number	Cylinder Bore Ø	Stroke inches	Port Size	Straight fitting	90° Swivel Elbow fitting	Banjo flow control	Tube O.D.
							
RP075X0.500-DAP ●	3/4	1/2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP075X1.000-DAP ●	3/4	1	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP075X1.500-DAP ●	3/4	1-1/2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP075X2.000-DAP ●	3/4	2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP075X2.500-DAP ●	3/4	2-1/2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP075X3.000-DAP ●	3/4	3	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP075X4.000-DAP ●	3/4	4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP075X5.000-DAP ●	3/4	5	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP075X6.000-DAP ●	3/4	6	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP087X1.000-DAP ●	7/8	1	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP087X2.000-DAP ●	7/8	2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP087X3.000-DAP ●	7/8	3	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP087X4.000-DAP ●	7/8	4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP087X5.000-DAP ●	7/8	5	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP087X6.000-DAP ●	7/8	6	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP106X1.000-DAP ●	1-1/16	1	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP106X2.000-DAP ●	1-1/16	2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP106X3.000-DAP ●	1-1/16	3	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP106X4.000-DAP ●	1-1/16	4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP106X5.000-DAP ●	1-1/16	5	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP106X6.000-DAP ●	1-1/16	6	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP125X1.000-DAP ●	1-1/4	1	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP125X2.000-DAP ●	1-1/4	2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP125X3.000-DAP ●	1-1/4	3	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP125X4.000-DAP ●	1-1/4	4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP125X5.000-DAP ●	1-1/4	5	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP125X6.000-DAP ●	1-1/4	6	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP150X1.000-DAP ●	1-1/2	1	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP150X2.000-DAP ●	1-1/2	2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP150X3.000-DAP ●	1-1/2	3	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP150X4.000-DAP ●	1-1/2	4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP150X5.000-DAP ●	1-1/2	5	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP150X6.000-DAP ●	1-1/2	6	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP175X1.000-DAP ●	1-3/4	1	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP175X2.000-DAP ●	1-3/4	2	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP175X3.000-DAP ●	1-3/4	3	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP175X4.000-DAP ●	1-3/4	4	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP175X5.000-DAP ●	1-3/4	5	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP175X6.000-DAP ●	1-3/4	6	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP200X1.000-DAP ●	2	1	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP200X2.000-DAP ●	2	2	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP200X3.000-DAP ●	2	3	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP200X4.000-DAP ●	2	4	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP200X5.000-DAP ●	2	5	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP200X6.000-DAP ●	2	6	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP250X1.000-DAP ●	2-1/2	1	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP250X2.000-DAP ●	2-1/2	2	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP250X3.000-DAP ●	2-1/2	3	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP250X4.000-DAP ●	2-1/2	4	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP250X5.000-DAP ●	2-1/2	5	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP250X6.000-DAP ●	2-1/2	6	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP300X1.000-DAP ●	3	1	3/8 NPT	C24250638	C24470638	C2VA00638	3/8"
RP300X2.000-DAP ●	3	2	3/8 NPT	C24250638	C24470638	C2VA00638	3/8"
RP300X3.000-DAP ●	3	3	3/8 NPT	C24250638	C24470638	C2VA00638	3/8"
RP300X4.000-DAP ●	3	4	3/8 NPT	C24250638	C24470638	C2VA00638	3/8"
RP300X5.000-DAP ●	3	5	3/8 NPT	C24250638	C24470638	C2VA00638	3/8"
RP300X6.000-DAP ●	3	6	3/8 NPT	C24250638	C24470638	C2VA00638	3/8"

- In stock
- ◆ Ships within one week

Double acting with Double end mount







Dimensions in Inches

Bore	A	C	D	E	EE	G	K	KK	LB	MM	N1	RM	V	Y1	Y2
5/16"	0.38	N/A	N/A	0.61	10-32	0.31	0.35	5-40	2.19	0.125	3/8-24	.371/.373	0.03	0.47	0.50
7/16"	0.50	N/A	N/A	0.74	10-32	0.38	0.50	10-32	2.81	0.187	7/16-20	.434/.437	0.05	0.73	0.69
9/16"	0.50	N/A	N/A	0.62	10-32	0.38	0.44	10-32	2.75	0.187	7/16-20	.434/.437	0.06	0.75	0.57
3/4"	0.50	N/A	N/A	0.86	1/8 NPT	0.50	0.62	1/4-28	4.03	0.250	5/8-18	.621/.624	0.09	0.97	0.90
7/8"	0.50	N/A	N/A	0.94	1/8 NPT	0.50	0.62	1/4-28	3.84	0.250	5/8-18	.621/.624	0.09	0.97	0.90
1-1/16"	0.50	0.12	0.25	1.12	1/8 NPT	0.50	0.62	5/16-24	4.12	0.312	5/8-18	.621/.624	0.09	1.07	0.90
1-1/4"	0.75	0.25	0.38	1.34	1/8 NPT	0.63	0.81	7/16-20	5.12	0.437	3/4-16	.746/.749	0.09	1.37	1.18
1-1/2"	0.75	0.25	0.38	1.56	1/8 NPT	0.63	0.62	7/16-20	4.75	0.437	3/4-16	.746/.749	0.09	1.25	0.94
1-3/4"	0.88	0.31	0.44	1.84	1/4 NPT	0.75	1.00	1/2-20	6.25	0.500	1-14	1.029/1.032	0.09	1.63	1.62
2"	0.88	0.38	0.50	2.08	1/4 NPT	0.81	1.00	1/2-20	6.06	0.625	1-1/4-12	1.372/1.375	0.12	1.46	1.47
2-1/2"	0.88	0.38	0.50	2.59	1/4 NPT	0.81	1.00	1/2-20	6.06	0.625	1-3/8-12	1.497/1.500	0.12	1.46	1.47
3"	1.25	0.38	0.63	3.12	3/8 NPT	1.00	1.43	5/8-18	7.12	0.750	1-1/2-12	1.622/1.625	0.19	1.71	1.96





Models

Accessories

Model Number	Cylinder Bore Ø	Stroke inches	Port Size	Straight fitting	90° Swivel Elbow fitting	Banjo flow control	Tube O.D.
 RP031X0.500-DAD ●	5/16	1/2	10-32 UNF				1/4"
RP031X1.000-DAD ●	5/16	1	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP031X1.500-DAD ●	5/16	1-1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP031X2.000-DAD ●	5/16	2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP031X2.500-DAD ●	5/16	2-1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP031X3.000-DAD ●	5/16	3	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP031X4.000-DAD ●	5/16	4	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP031X5.000-DAD ●	5/16	5	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP031X6.000-DAD ●	5/16	6	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP043X0.500-DAD ●	7/16	1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP043X1.000-DAD ●	7/16	1	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP043X1.500-DAD ●	7/16	1-1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP043X2.000-DAD ●	7/16	2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP043X2.500-DAD ●	7/16	2-1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP043X3.000-DAD ●	7/16	3	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP043X4.000-DAD ●	7/16	4	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP043X5.000-DAD ●	7/16	5	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP043X6.000-DAD ●	7/16	6	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP056X0.500-DAD ●	9/16	1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP056X1.000-DAD ●	9/16	1	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP056X1.500-DAD ●	9/16	1-1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP056X2.000-DAD ●	9/16	2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP056X2.500-DAD ●	9/16	2-1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP056X3.000-DAD ●	9/16	3	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP056X4.000-DAD ●	9/16	4	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP056X5.000-DAD ●	9/16	5	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"
RP056X6.000-DAD ●	9/16	6	10-32 UNF	C24250410	C24470410	C2VA00410	1/4"

- In stock
- ◆ Ships within one week

**Double acting with Double end mount (cont.)**

Models				Accessories			
Model Number	Cylinder Bore Ø	Stroke inches	Port Size	Straight fitting	90° Swivel Elbow fitting	Banjo flow control	Tube O.D.
							
RP075X0.500-DAD ●	3/4	1/2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP075X1.000-DAD ●	3/4	1	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP075X1.500-DAD ●	3/4	1-1/2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP075X2.000-DAD ●	3/4	2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP075X2.500-DAD ●	3/4	2-1/2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP075X3.000-DAD ●	3/4	3	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP075X4.000-DAD ●	3/4	4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP075X5.000-DAD ●	3/4	5	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP075X6.000-DAD ●	3/4	6	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP087X1.000-DAD ●	7/8	1	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP087X2.000-DAD ●	7/8	2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP087X3.000-DAD ●	7/8	3	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP087X4.000-DAD ●	7/8	4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP087X5.000-DAD ●	7/8	5	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP087X6.000-DAD ●	7/8	6	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP106X1.000-DAD ●	1-1/16	1	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP106X2.000-DAD ●	1-1/16	2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP106X3.000-DAD ●	1-1/16	3	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP106X4.000-DAD ●	1-1/16	4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP106X5.000-DAD ●	1-1/16	5	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP106X6.000-DAD ●	1-1/16	6	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP125X1.000-DAD ●	1-1/4	1	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP125X2.000-DAD ●	1-1/4	2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP125X3.000-DAD ●	1-1/4	3	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP125X4.000-DAD ●	1-1/4	4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP125X5.000-DAD ●	1-1/4	5	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP125X6.000-DAD ●	1-1/4	6	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP150X1.000-DAD ●	1-1/2	1	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP150X2.000-DAD ●	1-1/2	2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP150X3.000-DAD ●	1-1/2	3	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP150X4.000-DAD ●	1-1/2	4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP150X5.000-DAD ●	1-1/2	5	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP150X6.000-DAD ●	1-1/2	6	1/8 NPT	C24250418	C24470418	C2VA00418	1/4"
RP175X1.000-DAD ●	1-3/4	1	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP175X2.000-DAD ●	1-3/4	2	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP175X3.000-DAD ●	1-3/4	3	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP175X4.000-DAD ●	1-3/4	4	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP175X5.000-DAD ●	1-3/4	5	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP175X6.000-DAD ●	1-3/4	6	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP200X1.000-DAD ●	2	1	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP200X2.000-DAD ●	2	2	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP200X3.000-DAD ●	2	3	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP200X4.000-DAD ●	2	4	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP200X5.000-DAD ●	2	5	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP200X6.000-DAD ●	2	6	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP250X1.000-DAD ●	2-1/2	1	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP250X2.000-DAD ●	2-1/2	2	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP250X3.000-DAD ●	2-1/2	3	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP250X4.000-DAD ●	2-1/2	4	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP250X5.000-DAD ●	2-1/2	5	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP250X6.000-DAD ●	2-1/2	6	1/4 NPT	C24250628	C24470628	C2VA00628	3/8"
RP300X1.000-DAD ●	3	1	3/8 NPT	C24250638	C24470638	C2VA00638	3/8"
RP300X2.000-DAD ●	3	2	3/8 NPT	C24250638	C24470638	C2VA00638	3/8"
RP300X3.000-DAD ●	3	3	3/8 NPT	C24250638	C24470638	C2VA00638	3/8"
RP300X4.000-DAD ●	3	4	3/8 NPT	C24250638	C24470638	C2VA00638	3/8"
RP300X5.000-DAD ●	3	5	3/8 NPT	C24250638	C24470638	C2VA00638	3/8"
RP300X6.000-DAD ●	3	6	3/8 NPT	C24250638	C24470638	C2VA00638	3/8"

- In stock
- ◆ Ships within one week



## ISO ROUNDLINE CYLINDERS

WHEN APPLYING PNEUMATIC ACTUATORS TO LIGHTER DUTY, LOWER FORCE APPLICATIONS, MANY MACHINE BUILDERS TEND TO SELECT A SIMPLE 'ROUNDLINE' PRODUCT. THE MOST COMMON OF THESE ARE ACTUATORS THAT CONFORM TO ISO6432, A DIMENSIONAL STANDARD ENSURING INTERCHANGEABILITY BETWEEN MANUFACTURERS.

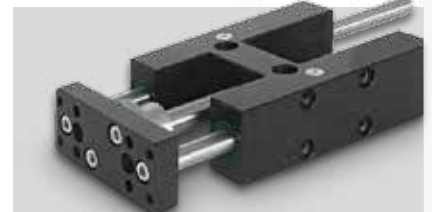
A number of features make the IMI Norgren range of ISO roundline cylinders stand apart from the competition:

- > We use a 'Z' type low friction seal to support both low and high speed applications with operating life up to 10 million cycles – one product applied to all manner of applications, with reduced maintenance scheduling, downtime and therefore cost of ownership
- > The standard actuator is fully non-corrodible in standard applications. For more arduous environments, you can choose a stainless version, reducing the need for more costly modification to machine functions
- > If you're looking for a more specialized and cost-effective solution, choose from double ended or non-rotating piston rods, add a rod lock, select different end-cap styles to save space, add a guide block to improve load capacity, or fit high temperature seals
- > Uses the standard IMI Norgren M/50 series switch (reed or solid state) as fitted to virtually the entire IMI Norgren actuator range – reducing expensive spares stockholding to a minimum and ensuring total familiarity across all types of actuator

ANYTHING MORE COMPACT?



LOAD TOO HEAVY?



**For additional information and availability of the products shown on this page please contact your Express Team at 1.800.514.0129**



**Double acting pneumatic cylinders**  
**Acetal Resin end caps**  
**Stainless Steel body**  
**Suitable for washdown and corrosive environments**



### Technical Data

#### Medium:

Filtered, lubricated or non-lubricated, compressed air

#### Maximum Operating Pressure:

125 psig (8.6 bar)

#### Temperature Range:

Standard Nitrile Seals:  
32° to 160°F (0°C to 72°C)





#### Lubrication:

All RPD cylinders are pre-lubricated during assembly with a PTFE based grease for non-lube service and long life.

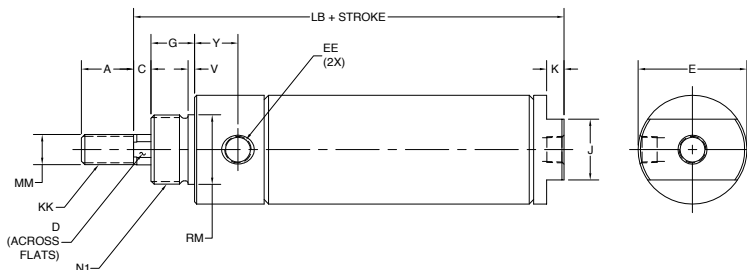
#### Materials:

Cylinder Body: 304 Series stainless steel  
 Head and Cap: Acetal Resin  
 Piston Rod: 300 Series chrome plated stainless steel  
 Piston: Anodized aluminum alloy or stainless steel  
 Rod & Piston Seals: Nitrile  
 Mounting Accessories: 300 Series: Stainless steel

### Accessories

Bore	SS Pivot bracket	SS Rod clevis	SS Foot bracket	SS Mounting nut
9/16"	 DPB-056 ◆	 DRC-056 ◆	 RPDFB-056 ◆	 52025-SS ◆
3/4"	DPB-075 ◆	DRC-075 ◆	RPDFB-075 ◆	52027-SS ◆
1-1/16"	DPB-076 ◆	DRC-106 ◆	RPDFB-075 ◆	52027-SS ◆
1-1/2"	DPB-150 ◆	DRC-150 ◆	RPDFB-150 ◆	52030-SS ◆
2"	DPB-200 ◆	DRC-200 ◆	RPDFB-200 ◆	52085-SS ◆

### Double Acting with Nose Mount



### Dimensions in Inches

Bore	A	C	D	EE	E1	E2	G	J	K	KK	LB	MM	N1	RM	Y	V
9/16"	0.50	N/A	N/A	10-32	0.62	0.62	0.38	0.50	0.19	10-32	2.28	0.187	7/16-20	.434/.437	0.75	0.06
3/4"	0.50	N/A	N/A	1/8 NPT	0.86	0.81	0.50	0.62	0.19	1/4-28	2.97	0.250	5/8-18	.621/.624	0.97	0.09
1-1/16"	0.50	N/A	N/A	1/8 NPT	1.12	1.12	0.50	0.88	0.19	5/16-24	3.12	0.312	5/8-18	.621/.624	1.06	0.09
1-1/2"	0.75	0.25	0.38	1/8 NPT	1.56	1.56	0.63	0.88	0.25	7/16-20	3.69	0.437	3/4-16	.746/.749	1.25	0.09
2"	0.88	0.38	0.50	1/4 NPT	2.08	2.08	0.81	1.25	0.31	1/2-20	4.69	0.625	1-1/4-12	1.372/1.375	1.46	0.12





- In stock
- ◆ Ships within one week



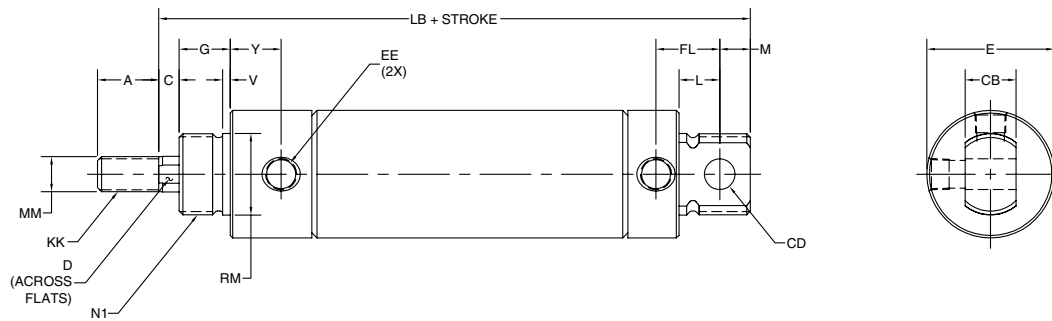
Double Acting with Nose Mount (DAN)

Models

Accessories

Model Number	Cylinder Bore Ø	Stroke inches	Port Size	Straight fitting	90° Swivel Elbow fitting	Banjo flow control	Tube O.D.
							
RPD056X0.500-DAN ◆	9/16	1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RPD056X1.000-DAN ◆	9/16	1	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RPD056X1.500-DAN ◆	9/16	1-1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RPD056X2.000-DAN ◆	9/16	2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RPD056X2.500-DAN ◆	9/16	2-1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RPD056X3.000-DAN ◆	9/16	3	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RPD056X4.000-DAN ◆	9/16	4	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RPD056X5.000-DAN ◆	9/16	5	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RPD056X6.000-DAN ◆	9/16	6	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RPD075X0.500-DAN ◆	3/4	1/2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD075X1.000-DAN ◆	3/4	1	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD075X1.500-DAN ◆	3/4	1-1/2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD075X2.000-DAN ◆	3/4	2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD075X2.500-DAN ◆	3/4	2-1/2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD075X3.000-DAN ◆	3/4	3	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD075X4.000-DAN ◆	3/4	4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD075X5.000-DAN ◆	3/4	5	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD075X6.000-DAN ◆	3/4	6	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD106X1.000-DAN ◆	1-1/16	1	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD106X2.000-DAN ◆	1-1/16	2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD106X3.000-DAN ◆	1-1/16	3	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD106X4.000-DAN ◆	1-1/16	4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD106X5.000-DAN ◆	1-1/16	5	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD106X6.000-DAN ◆	1-1/16	6	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD150X1.000-DAN ◆	1-1/2	1	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD150X2.000-DAN ◆	1-1/2	2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD150X3.000-DAN ◆	1-1/2	3	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD150X4.000-DAN ◆	1-1/2	4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD150X5.000-DAN ◆	1-1/2	5	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD150X6.000-DAN ◆	1-1/2	6	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD200X1.000-DAN ◆	2	1	1/4 NPT	C24250628	C24470628	C2VA00628	3/8
RPD200X2.000-DAN ◆	2	2	1/4 NPT	C24250628	C24470628	C2VA00628	3/8
RPD200X3.000-DAN ◆	2	3	1/4 NPT	C24250628	C24470628	C2VA00628	3/8
RPD200X4.000-DAN ◆	2	4	1/4 NPT	C24250628	C24470628	C2VA00628	3/8
RPD200X5.000-DAN ◆	2	5	1/4 NPT	C24250628	C24470628	C2VA00628	3/8
RPD200X6.000-DAN ◆	2	6	1/4 NPT	C24250628	C24470628	C2VA00628	3/8





- In stock
- ◆ Ships within one week

**Double Acting Pivot Mount (DAD)**

**Dimensions in Inches**

Bore	A	C	CB	CD	D	E	EE	FL	G	KK	L	LB	LH	MM	N1	RM	V	XD	Y
9/16"	0.50	N/A	0.31	0.156	N/A	0.61	10-32	0.38	0.38	10-32	0.25	2.75	0.50	0.19	7/16-20	.434/.437	0.06	2.56	0.38
3/4"	0.50	N/A	0.38	0.250	N/A	0.81	1/8 NPT	0.62	0.50	1/4-28	0.34	4.03	0.75	0.28	5/8-18	.621/.624	0.09	3.75	0.47
1-1/16"	0.50	0.12	0.38	0.250	0.25	1.12	1/8 NPT	0.62	0.50	5/16-24	0.34	4.12	0.75	0.28	5/8-18	.621/.624	0.09	3.84	0.56
1-1/2"	0.75	0.25	0.63	0.375	0.38	1.56	1/8 NPT	0.78	0.63	7/16-20	0.50	4.75	1.00	0.437	1-14	.996/.999	0.09	4.38	0.63
2"	0.88	0.38	0.74	0.375	0.50	2.08	1/4 NPT	1.03	0.81	1/2-20	0.56	6.06	1.63	0.625	1-1/4-12	1.371/1.374	0.12	5.62	0.73

- In stock
- ◆ Ships within one week

Double Acting Pivot Mount (DAD)

Models Model Number	Cylinder Bore Ø	Stroke inches	Port Size	Accessories			Tube O.D.
				Straight fitting	90° Swivel Elbow fitting	Banjo flow control	
							
RPD056X0.500-DAD ◆	9/16	1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RPD056X1.000-DAD ◆	9/16	1	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RPD056X1.500-DAD ◆	9/16	1-1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RPD056X2.000-DAD ◆	9/16	2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RPD056X2.500-DAD ◆	9/16	2-1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RPD056X3.000-DAD ◆	9/16	3	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RPD056X4.000-DAD ◆	9/16	4	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RPD056X5.000-DAD ◆	9/16	5	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RPD056X6.000-DAD ◆	9/16	6	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
RPD075X0.500-DAD ◆	3/4	1/2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD075X1.000-DAD ◆	3/4	1	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD075X1.500-DAD ◆	3/4	1-1/2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD075X2.000-DAD ◆	3/4	2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD075X2.500-DAD ◆	3/4	2-1/2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD075X3.000-DAD ◆	3/4	3	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD075X4.000-DAD ◆	3/4	4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD075X5.000-DAD ◆	3/4	5	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD075X6.000-DAD ◆	3/4	6	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD106X1.000-DAD ◆	1-1/16	1	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD106X2.000-DAD ◆	1-1/16	2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD106X3.000-DAD ◆	1-1/16	3	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD106X4.000-DAD ◆	1-1/16	4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD106X5.000-DAD ◆	1-1/16	5	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD106X6.000-DAD ◆	1-1/16	6	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD150X1.000-DAD ◆	1-1/2	1	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD150X2.000-DAD ◆	1-1/2	2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD150X3.000-DAD ◆	1-1/2	3	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD150X4.000-DAD ◆	1-1/2	4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD150X5.000-DAD ◆	1-1/2	5	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD150X6.000-DAD ◆	1-1/2	6	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
RPD200X1.000-DAD ◆	2	1	1/4 NPT	C24250628	C24470628	C2VA00628	3/8
RPD200X2.000-DAD ◆	2	2	1/4 NPT	C24250628	C24470628	C2VA00628	3/8
RPD200X3.000-DAD ◆	2	3	1/4 NPT	C24250628	C24470628	C2VA00628	3/8
RPD200X4.000-DAD ◆	2	4	1/4 NPT	C24250628	C24470628	C2VA00628	3/8
RPD200X5.000-DAD ◆	2	5	1/4 NPT	C24250628	C24470628	C2VA00628	3/8
RPD200X6.000-DAD ◆	2	6	1/4 NPT	C24250628	C24470628	C2VA00628	3/8

- In stock
- ◆ Ships within one week

**Compact design**  
**High quality components**  
**Dependable service, and long life**

### Technical Data

#### Medium:

Filtered, lubricated or non-lubricated, compressed air

#### Operating Pressure:

200 psig (13.6 Bar) Max.

#### Temperature Range:

Standard Nitrile seals-

-40°F to 200°F (-40°C to 93°C)

\*With dew point of supply air less than air temperature below 35°F (2°C).

#### Lubrication:

All F-Series Plus cylinders are prelubricated at the time of assembly with a PTFE based grease, for non-lube service and long life.

#### Side Loading:

Cylinders are specifically designed to push and pull. Side loading and misalignment of the piston rod should be avoided to ensure maximum operating performance and life.

#### Materials:

Cylinder Body: 304 Stainless Steel

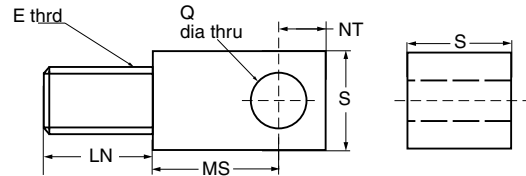
Head and Cap: Clear Anodized Aluminum Alloy

Piston Rod: 303 Stainless Steel

Rod Bearing: Oil Impregnated Bronze

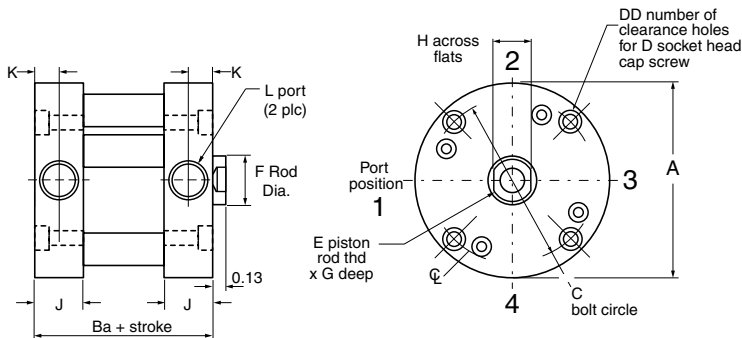
Piston: Aluminum Alloy

Rod & Piston seals: Buna-N



### Rod eye dimensions (Inches)

Bore	Part No.	E	LN	MS	NT	Q	S
9/16	FRE-1	#8-32 UNC	0.38	0.47	0.25	0.19	0.38
3/4	FRE-2	#10-32 UNF	0.38	0.47	0.25	0.19	0.38
1-1/16	FRE-3	5/16-24 UNF	0.63	0.47	0.25	0.19	0.38
1-1/2	FRE-4	3/8-24 UNF	0.63	0.75	0.44	0.38	0.75
2	FRE-5	1/2-20 UNF	0.75	0.75	0.44	0.38	0.75
2-1/2	FRE-5	1/2-20 UNF	0.75	0.75	0.44	0.38	0.75
3	FRE-6	5/8-18 UNF	0.88	1.00	0.63	0.63	1.00







### Cylinder dimensions (Inches)

Bore	Code	A	Ba*	C	DD	D	E thread	G depth	F	H	J	K	L
9/16	(056)	1.12	0.56	0.88	2	#4	8-32 UNC	.46	.25	.22	.34	.14	10-32 UNF
3/4	(075)	1.50	0.56	1.22	4	#6	10-32 UNC	.46	.31	.25	.34	.14	10-32 UNF
1-1/16	(106)	2.00	0.88	1.69	4	#6	5/16-24 UNF	.70	.50	.44	.50	.25	1/8 NPT
1-1/2	(150)	2.62	0.88	2.19	4	#10	3/8-24 UNF	.70	.63	.50	.50	.25	1/8 NPT
2	(200)	3.12	0.95	2.69	4	#10	1/2-20 UNF	.70	.75	.63	.53	.25	1/8 NPT
2-1/2	(250)	3.75	1.19	3.25	4	1/4	1/2-20 UNF	.70	.75	.63	.66	.33	1/4 NPT
3	(300)	4.25	1.25	3.78	4	1/4	5/8-18 UNF	.73	.88	.75	.69	.33	1/4 NPT

- In stock
- ◆ Ships within one week

Models

Accessories

Model Number	Cylinder Bore Ø	Stroke inches	Port Size	Straight fitting	90° Swivel Elbow fitting	Banjo flow control	Tube O.D.
							
FP056X0.250-BAM ◆	9/16	1/4	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
FP056X0.500-BAM ◆	9/16	1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
FP056X0.750-BAM ◆	9/16	3/4	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
FP056X1.000-BAM ◆	9/16	1	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
FP056X1.250-BAM ◆	9/16	1-1/4	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
FP056X1.500-BAM ◆	9/16	1-1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
FP056X1.750-BAM ◆	9/16	1-3/4	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
FP056X2.000-BAM ◆	9/16	2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
FP075X0.250-BAM ◆	3/4	1/4	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
FP075X0.500-BAM ◆	3/4	1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
FP075X0.750-BAM ◆	3/4	3/4	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
FP075X1.000-BAM ◆	3/4	1	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
FP075X1.250-BAM ◆	3/4	1-1/4	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
FP075X1.500-BAM ◆	3/4	1-1/2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
FP075X1.750-BAM ◆	3/4	1-3/4	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
FP075X2.000-BAM ◆	3/4	2	10-32 UNF	C24250410	C24470410	C2VA00410	1/4
FP106X0.250-BAM ◆	1-1/16	1/4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
FP106X0.500-BAM ◆	1-1/16	1/2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
FP106X0.750-BAM ◆	1-1/16	3/4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
FP106X1.000-BAM ◆	1-1/16	1	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
FP106X1.250-BAM ◆	1-1/16	1-1/4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
FP106X1.500-BAM ◆	1-1/16	1-1/2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
FP106X1.750-BAM ◆	1-1/16	1-3/4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
FP106X2.000-BAM ◆	1-1/16	2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
FP150X0.250-BAM ◆	1-1/2	1/4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
FP150X0.500-BAM ◆	1-1/2	1/2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
FP150X0.750-BAM ◆	1-1/2	3/4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
FP150X1.000-BAM ◆	1-1/2	1	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
FP150X1.250-BAM ◆	1-1/2	1-1/4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
FP150X1.500-BAM ◆	1-1/2	1-1/2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
FP150X1.750-BAM ◆	1-1/2	1-3/4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
FP150X2.000-BAM ◆	1-1/2	2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
FP200X0.250-BAM ◆	2	1/4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
FP200X0.500-BAM ◆	2	1/2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
FP200X0.750-BAM ◆	2	3/4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
FP200X1.000-BAM ◆	2	1	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
FP200X1.250-BAM ◆	2	1-1/4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
FP200X1.500-BAM ◆	2	1-1/2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
FP200X1.750-BAM ◆	2	1-3/4	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
FP200X2.000-BAM ◆	2	2	1/8 NPT	C24250418	C24470418	C2VA00418	1/4
FP250X0.250-BAM ◆	2-1/2	1/4	1/4 NPT	C24250418	C24470418	C2VA00418	1/4
FP250X0.500-BAM ◆	2-1/2	1/2	1/4 NPT	C24250418	C24470418	C2VA00418	1/4
FP250X0.750-BAM ◆	2-1/2	3/4	1/4 NPT	C24250418	C24470418	C2VA00418	1/4
FP250X1.000-BAM ◆	2-1/2	1	1/4 NPT	C24250418	C24470418	C2VA00418	1/4
FP250X1.250-BAM ◆	2-1/2	1-1/4	1/4 NPT	C24250418	C24470418	C2VA00418	1/4
FP250X1.500-BAM ◆	2-1/2	1-1/2	1/4 NPT	C24250418	C24470418	C2VA00418	1/4
FP250X1.750-BAM ◆	2-1/2	1-3/4	1/4 NPT	C24250418	C24470418	C2VA00418	1/4
FP250X2.000-BAM ◆	2-1/2	2	1/4 NPT	C24250418	C24470418	C2VA00418	1/4
FP300X0.250-BAM ◆	3	1/4	1/4 NPT	C24250628	C24470628	C2VA00628	3/8
FP300X0.500-BAM ◆	3	1/2	1/4 NPT	C24250628	C24470628	C2VA00628	3/8
FP300X0.750-BAM ◆	3	3/4	1/4 NPT	C24250628	C24470628	C2VA00628	3/8
FP300X1.000-BAM ◆	3	1	1/4 NPT	C24250628	C24470628	C2VA00628	3/8
FP300X1.250-BAM ◆	3	1-1/4	1/4 NPT	C24250628	C24470628	C2VA00628	3/8
FP300X1.500-BAM ◆	3	1-1/2	1/4 NPT	C24250628	C24470628	C2VA00628	3/8
FP300X1.750-BAM ◆	3	1-3/4	1/4 NPT	C24250628	C24470628	C2VA00628	3/8
FP300X2.000-BAM ◆	3	2	1/4 NPT	C24250628	C24470628	C2VA00628	3/8

- In stock
- ◆ Ships within one week



TWIN PORTED  
END CAP

## LINTRA® PLUS RANGE

OUR RODLESS ACTUATOR RANGE, KNOWN GENERALLY BY THE 'LINTRA' (LINEAR TRANSPORTER) BRAND HAS, OVER THE LAST 25 YEARS, DEVELOPED FROM THE ORIGINAL C/45000 TO THE CURRENT C/146000 'LINTRA® PLUS' SERIES.

This range is one of the widest and most comprehensive rodless ranges available. Still unique are the integrated guides housed in the main extrusion and the user-friendly sealing strip.

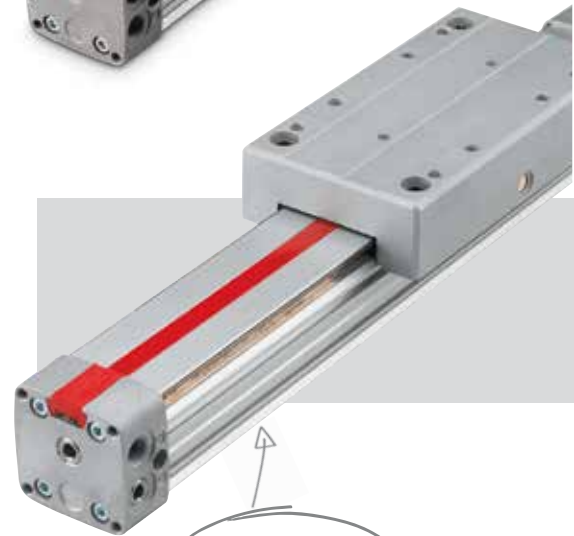
The latest version also has slots to take the standard M/50 series switch, along with grooves which accept industry-standard aluminum machine building systems.

> Three basic versions, covering light to heavy duty applications, all based around the same high strength, low weight aluminum profile and identical internal parts. This enables consistency of design across all machine functions, reduced spare parts holding and ease of maintenance

> Quality, long-life sealing system with unique zip action on seal/cover strip and protection system preventing dust ingress. Extremely low static leakage values when in use – offers responsive, reliable operation up to 3,700 miles of travel, and low costs of ownership

> Improved version (C/146000) is totally interchangeable with previous C/46000 model, with lower weight, greater load capacity, improved end caps and carriage design, and improved sealing performance now with added dust protection to meet ATEX requirements. Ongoing product development means that existing machine life cycles can be extended without compromise on expensive conversions or increased maintenance schedules

HIGH STRENGTH  
LIGHT WEIGHT



USER FRIENDLY  
SEALING STRIP

**Lightweight design extrusion  
with universal mounting grooves  
Proven and patented sealing system  
Dust protection as standard  
Interchangeability with series C/46000**



**Technical Data**

**Medium:**

Compressed air, filtered,  
lubricated or non-lubricated

**Operation:**

Double acting with adjustable cushioning  
and magnetic piston

**Operating pressure:**

14.5 to 116 psi (1 to 8 bar)

**Operating temperature:**

-22°F to 176°F (-30°C to +80°C) max.

(consult our Technical Service for use below 36°F [+2°C])

**Cylinder diameter:**

25, 32, 40, 50, 63 mm

**Materials:**

End covers: anodized aluminum

Yoke: anodized aluminum

Carriage, closer & cover: aluminum diecast

Guiding bridge and profile barrel: anodized aluminum





Seal strip, wiper and piston seal: polyurethane

Cover strip: polyamide


Other seals: nitrile rubber

For more information about the Lintra Plus range please visit  
[www.norgren.com/lintra](http://www.norgren.com/lintra)

**Mounts**

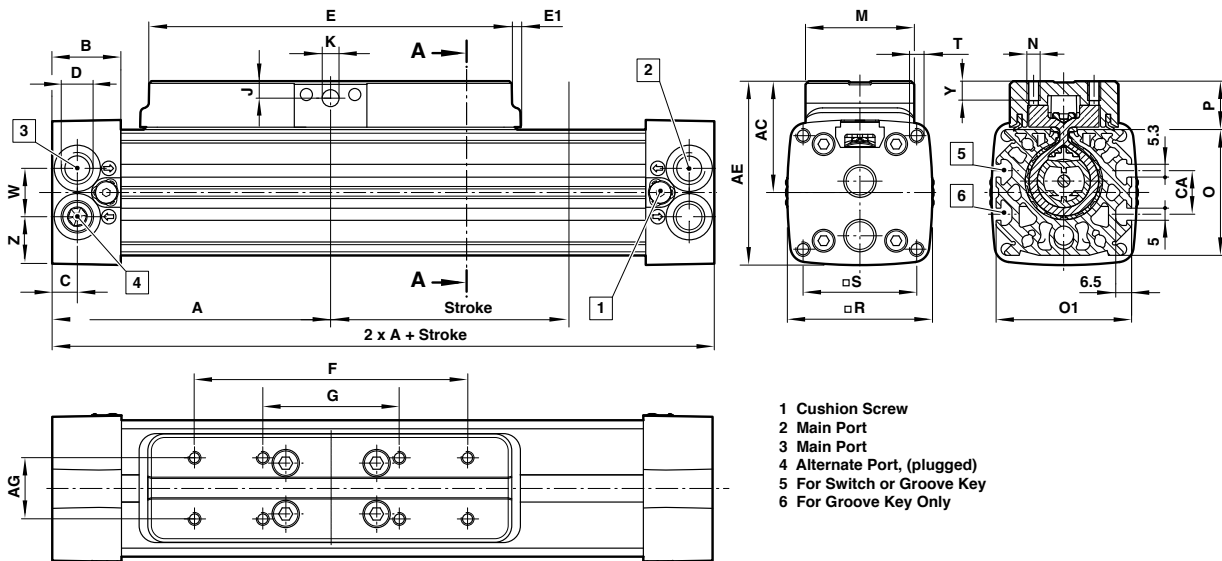
Bore	Foot mounts	Center support	Groove key for guided carriage	Groove key for profile barrel
				
25	QM/146025/21 ●	QM/146025/32 ●	M/P74065 ●	M/P74065 ●
32	QM/146032/21 ●	QM/146032/32 ●	M/P74065 ●	M/P74065 ●
40	QM/146040/21 ●	QM/146040/32 ●	M/P74066 ●	M/P74065 ●
50	QM/146050/21 ●	QM/146050/32 ●	M/P41858 ●	M/P74065 ●
63	QM/146063/21 ●	QM/146063/32 ●	M/P41858 ●	M/P74065 ●

**M/50 switches\***

Switch P/N	Cable Material	Type
		
M/50/LSU/*V ●	PVC	Reed LED
M/50/EAN/*V ●	PVC	Solid State Sinking (NPN) LED
M/50/EAP/*V ●	PVC	Solid State Sourcing (PNP) LED

\*Insert cable length 2m, 5m, 10m

- In stock
- ◆ Ships within one week

**C/146000 - Internally guided, magnetic, adjustable cushions**


- 1 Cushion Screw
- 2 Main Port
- 3 Main Port
- 4 Alternate Port, (plugged)
- 5 For Switch or Groove Key
- 6 For Groove Key Only






**Dimensions in Inches**

Model	Ø	A	AC	AE	AG	B	C	CA	D	E	E1	F	G	J	Ø K <sup>07</sup>
C/146025/...	25	3.94	1.42	2.20	0.78	0.91	0.33	—	1/8 NPT	5.12	—	3.54	1.77	0.19	0.20
C/146032/...	32	4.72	1.81	2.99	0.98	1.12	0.41	0.71	1/4 NPT	6.30	0.14	4.72	2.36	0.28	0.28
C/146040/...	40	5.91	2.07	3.54	0.98	1.12	0.45	0.71	1/4 NPT	8.46	—	6.30	3.15	0.28	0.28
C/146050/...	50	7.09	2.58	4.33	0.98	1.50	0.59	0.94	3/8 NPT	9.84	—	7.48	3.74	0.37	0.35
C/146063/...	63	8.46	3.25	4.92	0.98	1.50	0.67	—	1/2 NPT	12.60	—	9.45	4.72	0.37	0.35
Model	Ø	M	N	O	O 1	P	R	S	T	W	Y	Z	Weight at 0 in.	Weight per 4 in.	
C/146025/...	25	1.26	M5	1.57	1.81	0.63	1.89	1.46	M5-13*	0.63	0.28	0.63	1.5 lbs.	0.55 lbs.	
C/146032/...	32	1.77	M5	2.05	2.20	0.79	2.36	1.85	M6-17*	0.79	0.31	0.79	3 lbs.	0.66 lbs.	
C/146040/...	40	1.77	M6	2.56	2.68	0.79	2.93	2.28	M8-20*	0.98	0.31	0.98	5.5 lbs.	0.93 lbs.	
C/146050/...	50	1.97	M8	3.15	3.31	1.00	3.50	2.76	M8-20*	1.18	0.43	1.16	9.7 lbs.	1.3 lbs.	
C/146063/...	63	1.97	M8	3.74	3.82	0.98	4.13	3.31	M10-24*	1.38	0.43	1.38	15.2 lbs.	2 lbs.	

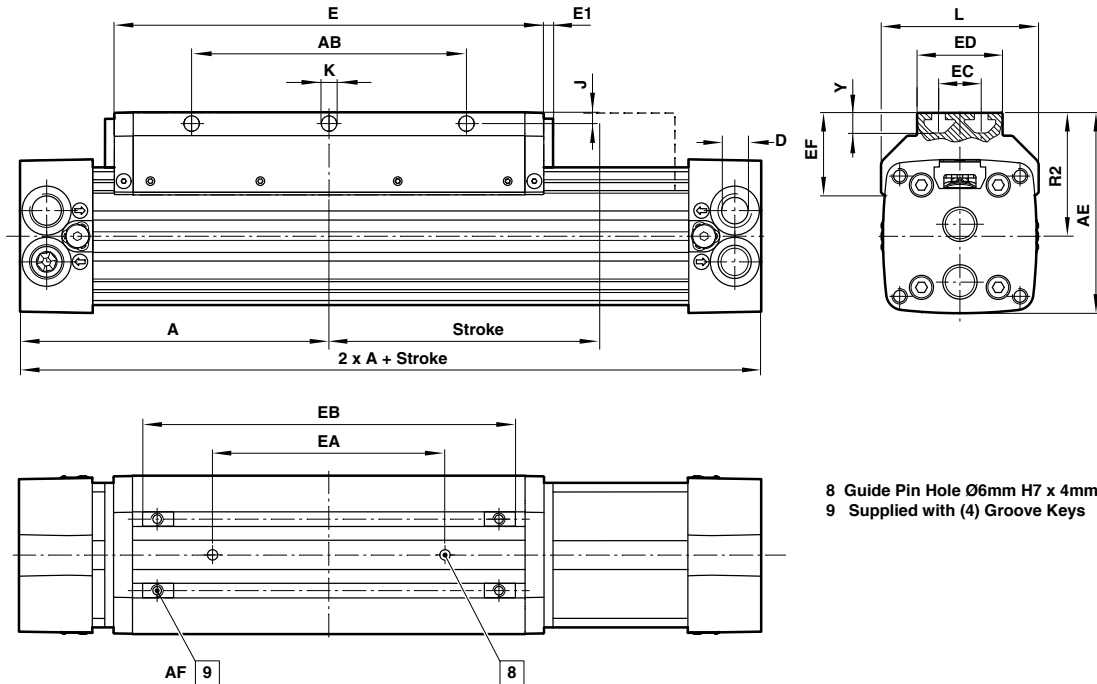
- In stock
- ◆ Ships within one week



C/146000 - Internally guided, magnetic, adjustable cushions

Model				Accessories			
Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight fitting	90° Swivel Elbow fitting	Banjo flow control	Service kit
							
C/146025/MC/6.000	● 25	6	1/8	C24250418	C24470418	C2VA00418	QA/146025/88/1000
C/146025/MC/12.000	● 25	12	1/8	C24250418	C24470418	C2VA00418	QA/146025/88/1000
C/146025/MC/18.000	● 25	18	1/8	C24250418	C24470418	C2VA00418	QA/146025/88/1000
C/146025/MC/24.000	● 25	24	1/8	C24250418	C24470418	C2VA00418	QA/146025/88/1000
C/146025/MC/30.000	● 25	30	1/8	C24250418	C24470418	C2VA00418	QA/146025/88/1000
C/146025/MC/36.000	● 25	36	1/8	C24250418	C24470418	C2VA00418	QA/146025/88/1000
C/146025/MC/42.000	● 25	42	1/8	C24250418	C24470418	C2VA00418	QA/146025/88/3000
C/146025/MC/48.000	● 25	48	1/8	C24250418	C24470418	C2VA00418	QA/146025/88/3000
C/146032/MC/6.000	● 32	6	1/4	C24250628	C24470628	C2VA00628	QA/146032/88/1000
C/146032/MC/12.000	● 32	12	1/4	C24250628	C24470628	C2VA00628	QA/146032/88/1000
C/146032/MC/18.000	● 32	18	1/4	C24250628	C24470628	C2VA00628	QA/146032/88/1000
C/146032/MC/24.000	● 32	24	1/4	C24250628	C24470628	C2VA00628	QA/146032/88/1000
C/146032/MC/30.000	● 32	30	1/4	C24250628	C24470628	C2VA00628	QA/146032/88/1000
C/146032/MC/36.000	● 32	36	1/4	C24250628	C24470628	C2VA00628	QA/146032/88/1000
C/146032/MC/42.000	● 32	42	1/4	C24250628	C24470628	C2VA00628	QA/146032/88/3000
C/146032/MC/48.000	● 32	48	1/4	C24250628	C24470628	C2VA00628	QA/146032/88/3000
C/146040/MC/6.000	● 40	6	1/4	C24250628	C24470628	C2VA00628	QA/146040/88/1000
C/146040/MC/12.000	● 40	12	1/4	C24250628	C24470628	C2VA00628	QA/146040/88/1000
C/146040/MC/18.000	● 40	18	1/4	C24250628	C24470628	C2VA00628	QA/146040/88/1000
C/146040/MC/24.000	● 40	24	1/4	C24250628	C24470628	C2VA00628	QA/146040/88/1000
C/146040/MC/30.000	● 40	30	1/4	C24250628	C24470628	C2VA00628	QA/146040/88/1000
C/146040/MC/36.000	● 40	36	1/4	C24250628	C24470628	C2VA00628	QA/146040/88/1000
C/146040/MC/42.000	● 40	42	1/4	C24250628	C24470628	C2VA00628	QA/146040/88/3000
C/146040/MC/48.000	● 40	48	1/4	C24250628	C24470628	C2VA00628	QA/146040/88/3000
C/146050/MC/6.000	● 50	6	3/8	C24250638	C24470638	C2VA00638	QA/146050/88/1000
C/146050/MC/12.000	● 50	12	3/8	C24250638	C24470638	C2VA00638	QA/146050/88/1000
C/146050/MC/18.000	● 50	18	3/8	C24250638	C24470638	C2VA00638	QA/146050/88/1000
C/146050/MC/24.000	● 50	24	3/8	C24250638	C24470638	C2VA00638	QA/146050/88/1000
C/146050/MC/30.000	● 50	30	3/8	C24250638	C24470638	C2VA00638	QA/146050/88/1000
C/146050/MC/36.000	● 50	36	3/8	C24250638	C24470638	C2VA00638	QA/146050/88/1000
C/146050/MC/42.000	● 50	42	3/8	C24250638	C24470638	C2VA00638	QA/146050/88/3000
C/146050/MC/48.000	● 50	48	3/8	C24250638	C24470638	C2VA00638	QA/146050/88/3000
C/146063/MC/6.000	● 63	6	1/2	C24250748	C24470748	C2VA00748	QA/146063/88/1000
C/146063/MC/12.000	● 63	12	1/2	C24250748	C24470748	C2VA00748	QA/146063/88/1000
C/146063/MC/18.000	● 63	18	1/2	C24250748	C24470748	C2VA00748	QA/146063/88/1000
C/146063/MC/24.000	● 63	24	1/2	C24250748	C24470748	C2VA00748	QA/146063/88/1000
C/146063/MC/30.000	● 63	30	1/2	C24250748	C24470748	C2VA00748	QA/146063/88/1000
C/146063/MC/36.000	● 63	36	1/2	C24250748	C24470748	C2VA00748	QA/146063/88/1000
C/146063/MC/42.000	● 63	42	1/2	C24250748	C24470748	C2VA00748	QA/146063/88/3000
C/146063/MC/48.000	● 63	48	1/2	C24250748	C24470748	C2VA00748	QA/146063/88/3000

- In stock
- ◆ Ships within one week

**C/146100 - Externally guided, magnetic, adjustable cushions**







- 8 Guide Pin Hole Ø6mm H7 x 4mm Deep  
 9 Supplied with (4) Groove Keys

**Dimensions in inches**

Type	Ø	A	AB	AE	AF	D NPT	E	E1	EA ±0.05	EB	ED	EC	EF	J	Ø K	L	R 2	Y	Weight at 0 mm	Weight per 100 mm
C/146125/..	25	3.94	2.76	2.66	M5	1/8	5.12	-	1.97	4.02	1.26	0.79	1.34	0.20	0.22	2.05	-	0.37	1.7 lbs.	0.44 lbs.
C/146132/..	32	4.72	3.54	3.23	M5	1/4	6.30	0.16	2.76	5.43	1.77	0.98	1.44	0.20	0.22	2.52	2.05	0.26	3.3 lbs.	0.66 lbs.
C/146140/..	40	5.91	4.72	3.84	M6	1/4	8.46	-	4.13	7.60	1.77	0.98	1.69	0.20	0.26	3.11	2.36	0.37	5.7 lbs.	0.93 lbs.
C/146150/..	50	7.09	6.30	4.59	M8	3/8	9.84	-	5.31	8.98	1.97	0.98	1.87	0.26	0.35	3.62	2.83	0.45	10 lbs.	1.4 lbs.
C/146163/..	63	8.46	7.48	5.39	M8	1/2	12.60	-	5.91	11.50	1.97	0.98	2.32	0.30	0.35	4.33	3.33	0.65	16 lbs.	2 lbs.

- In stock  
 ◆ Ships within one week

C/146100 - Externally guided, magnetic, adjustable cushions

Models		Accessories						
Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight fitting	90° Swivel Elbow fitting	Banjo flow control	Service kit	
								
C/146125/MC/6.000	25	6	1/8	C24250418	C24470418	C2VA00418	QA/146025/88/1000	
C/146125/MC/12.000	25	12	1/8	C24250418	C24470418	C2VA00418	QA/146025/88/1000	
C/146125/MC/18.000	25	18	1/8	C24250418	C24470418	C2VA00418	QA/146025/88/1000	
C/146125/MC/24.000	25	24	1/8	C24250418	C24470418	C2VA00418	QA/146025/88/1000	
C/146125/MC/30.000	25	30	1/8	C24250418	C24470418	C2VA00418	QA/146025/88/1000	
C/146125/MC/36.000	25	36	1/8	C24250418	C24470418	C2VA00418	QA/146025/88/1000	
C/146125/MC/42.000	25	42	1/8	C24250418	C24470418	C2VA00418	QA/146025/88/3000	
C/146125/MC/48.000	25	48	1/8	C24250418	C24470418	C2VA00418	QA/146025/88/3000	
C/146132/MC/6.000	32	6	1/4	C24250628	C24470628	C2VA00628	QA/146032/88/1000	
C/146132/MC/12.000	32	12	1/4	C24250628	C24470628	C2VA00628	QA/146032/88/1000	
C/146132/MC/18.000	32	18	1/4	C24250628	C24470628	C2VA00628	QA/146032/88/1000	
C/146132/MC/24.000	32	24	1/4	C24250628	C24470628	C2VA00628	QA/146032/88/1000	
C/146132/MC/30.000	32	30	1/4	C24250628	C24470628	C2VA00628	QA/146032/88/1000	
C/146132/MC/36.000	32	36	1/4	C24250628	C24470628	C2VA00628	QA/146032/88/1000	
C/146132/MC/42.000	32	42	1/4	C24250628	C24470628	C2VA00628	QA/146032/88/3000	
C/146132/MC/48.000	32	48	1/4	C24250628	C24470628	C2VA00628	QA/146032/88/3000	
C/146140/MC/6.000	40	6	1/4	C24250628	C24470628	C2VA00628	QA/146040/88/1000	
C/146140/MC/12.000	40	12	1/4	C24250628	C24470628	C2VA00628	QA/146040/88/1000	
C/146140/MC/18.000	40	18	1/4	C24250628	C24470628	C2VA00628	QA/146040/88/1000	
C/146140/MC/24.000	40	24	1/4	C24250628	C24470628	C2VA00628	QA/146040/88/1000	
C/146140/MC/30.000	40	30	1/4	C24250628	C24470628	C2VA00628	QA/146040/88/1000	
C/146140/MC/36.000	40	36	1/4	C24250628	C24470628	C2VA00628	QA/146040/88/1000	
C/146140/MC/42.000	40	42	1/4	C24250628	C24470628	C2VA00628	QA/146040/88/3000	
C/146140/MC/48.000	40	48	1/4	C24250628	C24470628	C2VA00628	QA/146040/88/3000	
C/146150/MC/6.000	50	6	3/8	C24250638	C24470638	C2VA00638	QA/146050/88/1000	
C/146150/MC/12.000	50	12	3/8	C24250638	C24470638	C2VA00638	QA/146050/88/1000	
C/146150/MC/18.000	50	18	3/8	C24250638	C24470638	C2VA00638	QA/146050/88/1000	
C/146150/MC/24.000	50	24	3/8	C24250638	C24470638	C2VA00638	QA/146050/88/1000	
C/146150/MC/30.000	50	30	3/8	C24250638	C24470638	C2VA00638	QA/146050/88/1000	
C/146150/MC/36.000	50	36	3/8	C24250638	C24470638	C2VA00638	QA/146050/88/1000	
C/146150/MC/42.000	50	42	3/8	C24250638	C24470638	C2VA00638	QA/146050/88/3000	
C/146150/MC/48.000	50	48	3/8	C24250638	C24470638	C2VA00638	QA/146050/88/3000	
C/146163/MC/6.000	63	6	1/2	C24250748	C24470748	C2VA00748	QA/146063/88/1000	
C/146163/MC/12.000	63	12	1/2	C24250748	C24470748	C2VA00748	QA/146063/88/1000	
C/146163/MC/18.000	63	18	1/2	C24250748	C24470748	C2VA00748	QA/146063/88/1000	
C/146163/MC/24.000	63	24	1/2	C24250748	C24470748	C2VA00748	QA/146063/88/1000	
C/146163/MC/30.000	63	30	1/2	C24250748	C24470748	C2VA00748	QA/146063/88/1000	
C/146163/MC/36.000	63	36	1/2	C24250748	C24470748	C2VA00748	QA/146063/88/1000	
C/146163/MC/42.000	63	42	1/2	C24250748	C24470748	C2VA00748	QA/146063/88/3000	
C/146163/MC/48.000	63	48	1/2	C24250748	C24470748	C2VA00748	QA/146063/88/3000	

- In stock
- ◆ Ships within one week

Magnetically operated, non-contact sensing system.


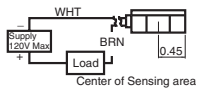
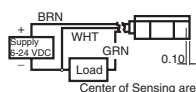
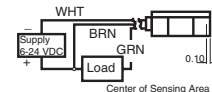
One or more switches may be mounted to provide an indication of piston position or to control or initiate any sequence function.


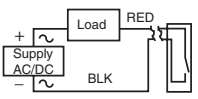
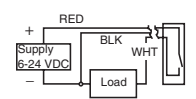
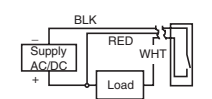
Adjustable mounting brackets allow for switches to be securely positioned anywhere along the range of piston travel.

LED indicator light facilitates installation and troubleshooting.



### Switches for A Series, and Series N Cylinders

Switch Model	CS8-2-04* Reed ●	CS8-2-31* Solid State (PNP) ●	CS8-2-32* Solid State (NPN) ●
			
<b>Bore Sizes</b>	3/4" thru 2-1/2"	3/4" thru 2-1/2"	3/4" thru 2-1/2"
<b>Switch Type</b>	Reed Switch, *MOV & Light	Solid State & Light, Sourcing PNP	Solid State & Light, Sinking NPN
<b>Function</b>	SPST Normally Open	Normally Open	Normally Open
<b>Switching Voltage</b>	5-120 VDC/VAC/ 50/60 Hz	6-24 VDC	6-24 VDC
<b>Switching Current</b>	.5 Amp Max/.005 Amp Min	.5 Amp Max	.5 Amp Max
<b>Switching Power</b>	10 VA	12 Watts Max	12 Watts Max
<b>Max Voltage Drop</b>	3.5 Volts	.5 Volts	.5 Volts
<b>Magnetic Sensitivity</b>	85 Gauss	85 Gauss	85 Gauss
<b>Enclosure Classification</b>	NEMA 6 & CSA Approved	NEMA 6 & CSA Approved	NEMA 6 & CSA Approved
<b>Temperature Range</b>	-22°F to +176°F	-22°F to +176°F	-22°F to +176°F

Switch Model	CS7-04* Reed ●	CS7-31* Solid State (PNP) ●	CS7-32* Solid State (NPN) ●
			
<b>Bore Sizes</b>	2" thru 6"	2" thru 6"	2" thru 6"
<b>Switch Type</b>	Reed Switch, *MOV & Light	Solid State & Light, Sourcing PNP	Solid State & Light, Sinking NPN
<b>Function</b>	Normally Open	Normally Open	Normally Open
<b>Switching Voltage</b>	5-240 VDC/VAC/ 50/60 Hz	6-24 VDC	6-24 VDC
<b>Switching Current</b>	1 Amp Max	1 Amp Max	1 Amp Max
<b>Switching Power</b>	30 Watts Max	24 Watts Max	24 Watts Max
<b>Max Voltage Drop</b>	3 Volts	.5 Volts	.5 Volts
<b>Magnetic Sensitivity</b>	85 Gauss	85 Gauss	85 Gauss
<b>Enclosure Classification</b>	NEMA 6 & CSA Approved	NEMA 6 & CSA Approved	NEMA 6 & CSA Approved
<b>Temperature Range</b>	-22°F to +176°F	-22°F to +176°F	-22°F to +176°F

\* All switches in this series include mounting bracket.

- In stock
- ◆ Ships within one week





Switches for DA/8000,

PDA/182000,

and C/146000

Series Cylinders

Switch P/N	Cable material	Type	Wire connection	Function	Voltage	Switching current	Switching power	Contact resistance	Operating temperature	Protection rating	Bracket†
 <b>M/50/LSU/**V</b> ●	PVC	Reed LED	2 Wire	Normally Open	10-240 VAC 10-170 VDC	180 mA	10 W	150m Ohm	-20°C to +80°C	IP66 (DIN 40050)	 <b>QM/27/2/1</b> ●
<b>M/50/EAN/**V</b> ●	PVC	Solid state sinking (NPN) LED	3 Wire	Normally Open	10-30 VDC	150 mA	4.5 W	N/A	-20°C to +80°C	IP67 (DIN 40050)	<b>QM/27/2/1</b> ●
<b>M/50/EAP/**V</b> ●	PVC	Solid state, sourcing, (PNP) LED	3 Wire	Normally Open	10-30 VDC	150 mA	4.5 W	N/A	-20°C to +80°C	IP67 (DIN 40050)	<b>QM/27/2/1</b> ●

\*\* Insert cable length 2, 5, or 10 meters  
 † Bracket needed for DA/8000 Series only

- In stock
- ◆ Ships within one week

### IMI FAS on/off cartridge valves

#### IMI FAS 8mm Chipsol

- > 2/2 or 3/2, NC or NO direct acting valve
- > Orifice size: 0.5mm to 1mm
- > Pressure rating: 0 to 8 Bar
- > Materials: PPS and stainless steel body, HNBR Seal
- > Power consumption: 0.5W

### IMI FAS on/off valves

- > Excellent flow to size ratio
- > Low power consumption
- > Validated to 100 million cycles
- > Manifold mount

#### IMI FAS 10mm Picosol

- > 2/2 or 3/2, NC or NO valve
- > Orifice size: 0.6 to 2 mm
- > Flow: 5 to 32 l/min at 2 BAR
- > Pressure rating: 0 to 10 Bar

#### IMI FAS 15mm Microsol

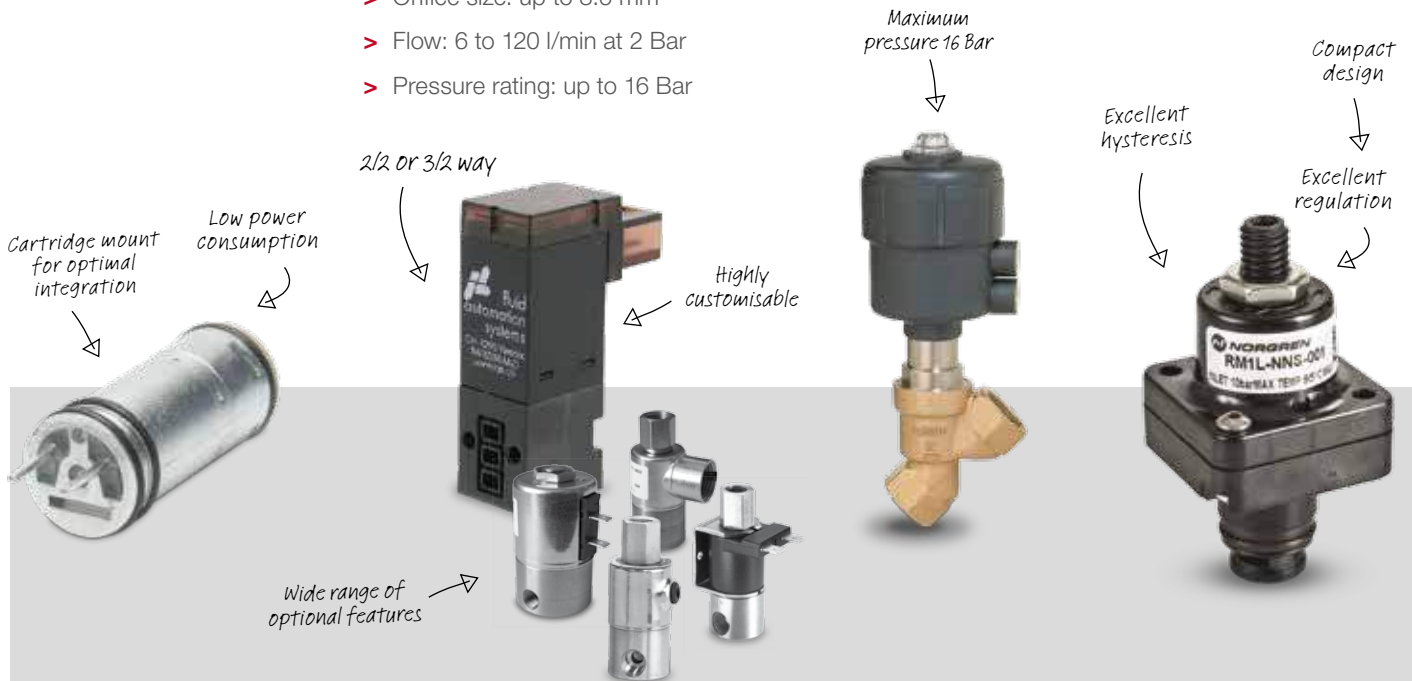
- > 2/2 or 3/2, NC or NO valve
- > Orifice size: up to 3.6 mm
- > Flow: 6 to 120 l/min at 2 Bar
- > Pressure rating: up to 16 Bar

### IMI Buschjost angle seat valves

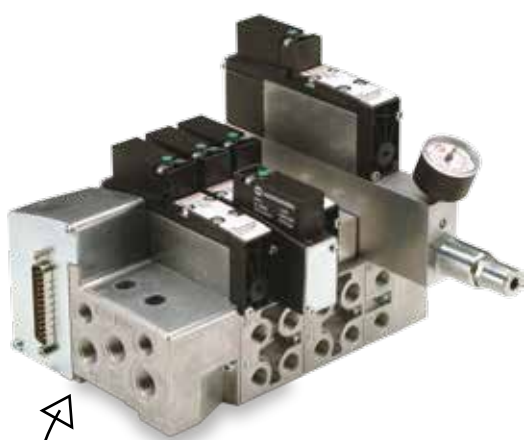
- > 84500 and 84520 series
- > Pressure actuated valves featuring high flow rate and flexibility
- > Suitable for neutral or aggressive gases and liquids

### RM1 Pressure Regulator

- > Cleaned for Oxygen use
- > Maximum inlet pressure: 10 Bar
- > Maximum outlet pressure: 4 Bar
- > Maximum flow: 400l/min
- > Base mounting
- > Excellent hysteresis characteristics



# VALVES



Fieldbus expandable



High flow rate



High speed



Durable and lightweight

An unmatched, state-of-the-art lineup of pneumatic and fluid control valves for any application. IMI Precision Engineering offers high-flow, compact valves used in multi-industry solutions. From Valve Manifolds to Solenoid and Air Pilot Valves to Manual/Mechanical Valves to Safety Valves to Fluid Control Valves, we have a comprehensive range to meet demanding applications.

# Fast Find Guide

## IMI NORGREN VALVE MANIFOLDS

### VS18

Plug-in Mini ISO Valves  
2x2/2, 2x3/2, 5/2 and 5/3  
ISO 15407-2,  
Size 18mm, Cv 0.66



VAL-04

### VS26

Plug-in Mini ISO Valves  
2x2/2, 2x3/2, 5/2 and 5/3  
valves ISO 15407-2,  
Size 26mm, Cv 1.37



VAL-10

### V40/V41

Mini ISO Valves  
2x3/2, 5/2 and 5/3, Solenoid  
and Pilot Actuated  
ISO 15407-1 / VDMA 24 563  
Size 18 mm, Cv 1.37



VAL-16

### V44/V45

Mini ISO Valves  
2x3/2, 5/2 and 5/3, Solenoid  
and Pilot Actuated  
ISO 15407-1 / VDMA 24 563  
Size 26 mm, Cv 1.17



VAL-20

### ISO Star

5/2 and 5/3 ISO #1 and ISO #2  
solenoid and air pilot actuated  
Cv 4.4



VAL-24

## IMI NORGREN SOLENOID AND AIR PILOT VALVES

### V60-V62 Series

3/2, 5/2, 5/3, and 2 x 3/2  
Directional control valves  
1/8" to 3/8"  
Cv 2.6



VAL-28

### V50 to V53 Series

3/2, 5/2 and 5/3 Spool valves  
Solenoid actuated and air pilot  
operated 1/8" to 1/2"  
Cv 2.48



VAL-36

### Nugget 200 Series

Solenoid and Air Pilot  
1/4", 3/8" and 1/2"  
3/2, 5/2 and 5/3 Cv 4.7



VAL-48

### Nugget 500 Series Valves

1/2" and 3/4"  
5/2 and 5/3 directional control  
spool valves  
Cv 4.7



VAL-52

### Prospector Series Poppet Valves

1/4" to 1-1/2" Solenoid and Air  
Pilot Actuated, 2/2, 3/2, & 4/2  
Cv 49.5



VAL-54

## IMI NORGREN MANUAL AND MECHANICAL VALVES

### Super X

Manual & Mechanical spool  
valves  
In-line 3/2, 5/2 & 5/3, 1/8" &  
1/4" NPT, Cv 0.98



VAL-58

### Nugget 200 Series Manual/Mechanical

1/4", 3/8", or 1/2" Ports,  
3/2, 5/2, & 5/3 In-line Valves  
Cv 1.7



VAL-66

## IMI NORGREN LOCKOUT VALVES

### Inline Lockout Valves

For installation in 1/4" through  
1-1/2" air lines



VAL-70

## IMI NORGREN PROPORTIONAL PRESSURE CONTROL

### VP10

Electronic Pressure Regulator



VAL-71

### VP50

Proportional Pressure Control  
Valve, 1/4" NPT



VAL-73

### VP50S

Proportional pressure  
control valve 1/4" NPT



VAL-74

### VP51

Programmable proportional  
pressure control valve  
1/4" NPT



VAL-75



# Fast Find Guide

## IMI NORGREN DRAIN VALVES

### Electronic Drain Valves

1/4" and 1/2"



VAL-76

## IMI NORGREN SOLENOID VALVES

### KIP Series 1 Solenoid Valves

2 and 3 way,  
1/8" NPT  
-4°F to 104°F



VAL-77

### KIP Series 2 Solenoid Valves

2 and 3 way,  
1/8" NPT  
-4°F to 104°F



VAL-78

### KIP Series 3 Solenoid Valves

2 and 3 way,  
1/8" NPT  
-4°F to 104°F



VAL-80

### KIP Series 6 Solenoid Valves

2 and 3 way,  
1/4" NPT  
-4°F to 104°F



VAL-82

### KIP Series 9 Low Watt Valves

2 and 3 way,  
10-32 UNF ports



VAL-84

### KIP Q2 Quick-Connect Valves

Orifice 1/8" to 5/16"



VAL-85

## IMI BUSCHJOST VALVES

### Series 82640 Diaphragm valves

2/2, 3/8" to 1" NPT,  
Orifice 0.3 to 1.0



VAL-86

### Series 82410 Diaphragm valves

2/2, 1/4" to 2" NPT, Orifice  
0.3 to 2.0



VAL-87

### Series 82410 Explosion Proof

2/2, 3/8" to 1" NPT, Orifice



VAL-88

### Series 82640 Explosion Proof

2/2, 3/8" to 1" NPT, Orifice



VAL-89

### Series 82740 Explosion Proof

2/2, 3/8" to 1" NPT, Orifice



VAL-90

### Series 84490 Explosion Proof

2/2, 3/8" to 1" NPT, Orifice



VAL-91

## IMI HERION VALVES

### Air Operated solenoid valve

Fluid Temp: 15°F to 105°F,  
3/8" NPT



VAL-92

### Solenoid Operated valve

5/2 Soft seal spool  
Fluid Temp: 15°F to 105°F  
1/4" and 3/8" NPT



VAL-93

### Series 97100

Inline and NAMUR interface  
spool valve, 5/2  
Fluid Temp: -13°F to 122°F  
1/4" NPT



VAL-94

### Herion XSz

Double valve, Cv 62.4  
1/4" to 1-1/2", 145 psig  
14°F to 140°F



VAL-95

## IMI MAXSEAL VALVES

### ICO3S

1/4"  
3/2



VAL-100

### ICO4S

1/2"  
3/2  
12 Bar (174 psi)



VAL-101

### QEV Quick Exhaust Valve

1/4", 1/2", and 3/4"



VAL-102

*\*New to this catalog*

**Multipole or integrated fieldbus for installation flexibility**

**Field expandable with single add-on stations**

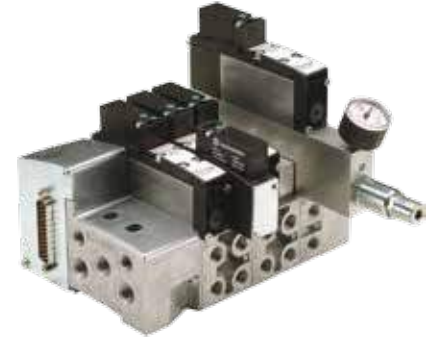
**Dual spool technology:**

- Glandless spool and sleeve for long life
- Softseal spool for high flow

**Wide range of accessories**

**ATEX**

**Universal PNP/NPN 24 VDC Multipole**



### Technical data

**Medium:**

Compressed air, filtered to 40 µm, lubricated or non-lubricated

**Operation:**

Spool valve indirectly actuated

**Operating pressure:**

Glandless – maximum 232 psig (16 bar)

Softseal – maximum 145 psig (10 bar)

**Flow:**

VS18 0.66 Cv (650 l/min) max.

VS26 1.37 Cv (1350 l/min) max.

**Voltage:**

24 VDC, 115 AC

**Ambient temperature\*:**

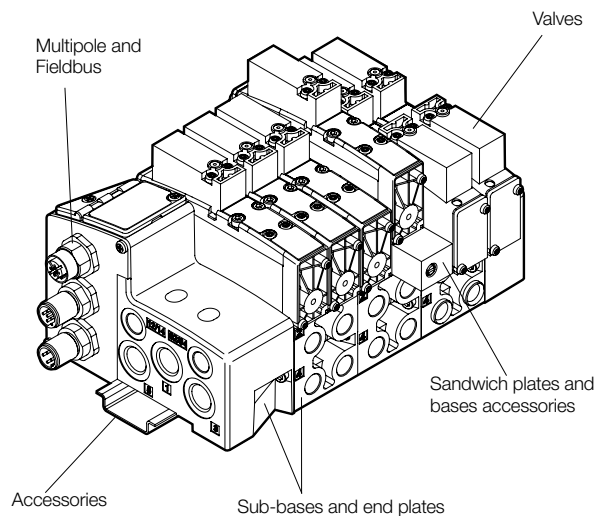
5°F to 122°F (–15°C to +50°C)

\* Consult our Technical Service for use below 35°F (2°C)

**Degree of protection:**

Multipole and fieldbus IP65

To order please use valve manifold configurator available at [www.norgren.com/usa](http://www.norgren.com/usa).



● In stock

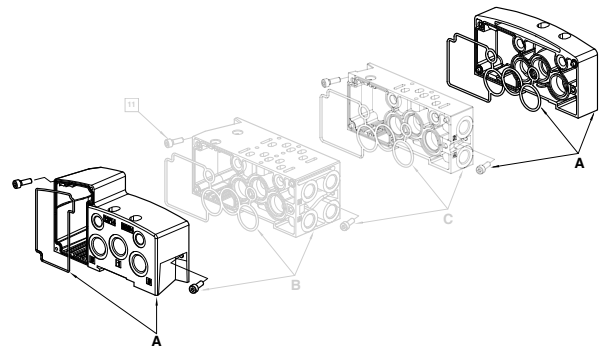
◆ Ships within one week

**STEP 1**

Start with your 1/4" NPT Endplate kit for multipole.

**A- End plate kit**

Model	Ports	Ports
	1, 3 & 5	12/14 & 82/84
VS1872000-RFC0 ●	NPTF 1/4	NPTF1/8

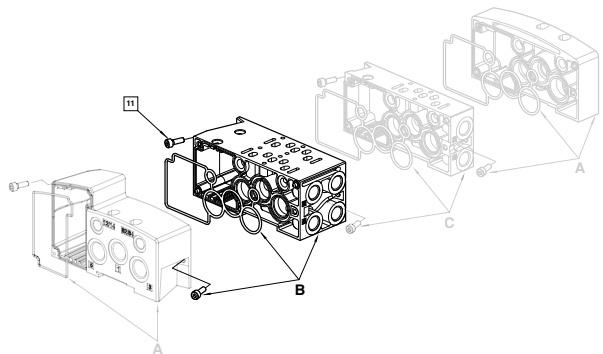


**STEP 2**

Determine port size: 1/8" NPT, or 1/4" PIF (push-in fitting) ports, and number of valve stations required

**B – Double station modular sub-base**

Model	Ports
	2 & 4
VS1872002-PFF0 ●	NPTF 1/8
VS1872002-1FF0 ●	PIF 1/4

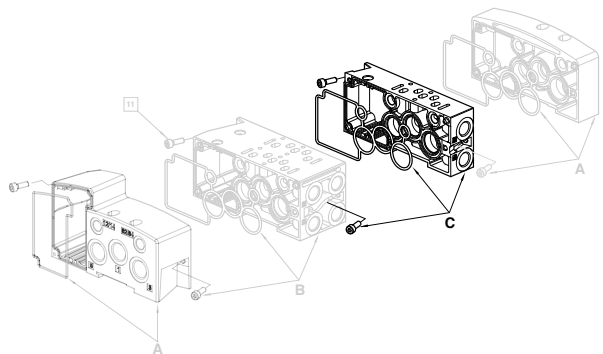


**STEP 3**

If your manifold has an even number of stations skip this step. For an odd number subbase manifold order one subbase with either 1/8" NPT, or 1/4" PIF.

**C – Single station modular sub-base**

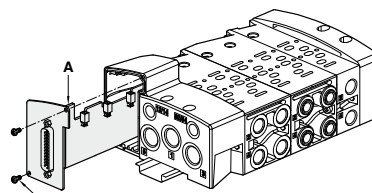
Model	Ports
	2 & 4
VS1872003-PFF0 ●	NPTF 1/8
VS1872003-1FF0 ●	PIF 1/4



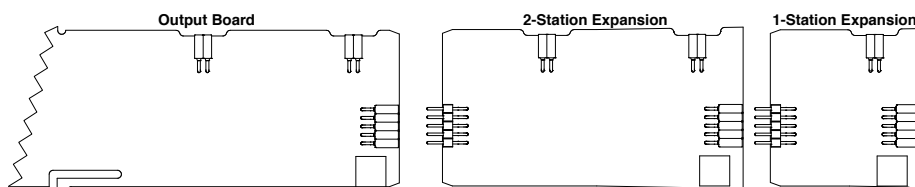
- In stock
- ◆ Ships within one week

**STEP 4**

Determine the electrical control of your manifold by using the tables below to select your multipole connection.



Multipole Connection	Number of Stations														Voltage		
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	24 VDC	115 VAC
9-pin D-Sub	Y	Y	Y													Y	
15-pin D-Sub	Y	Y	Y	Y	Y	Y										Y	
25-Pin D-Sub	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y					Y	
44-pin D-Sub									Y	Y	Y	Y	Y	Y	Y	Y	
1" Conduit	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y					Y	Y



9-pin D-Sub Multipole Connection (24 VDC)						
Number of Stations	Qty	Output Board	Qty	2-Station Expansion	Qty	1-Station Expansion
2-station	1	VS1872217-KF00 ●				
3-station	1	VS1872217-KF00 ●			1	VS1872255-KF00 ●
4-station	1	VS1872217-KF00 ●	1	VS1872213-KF00 ●		

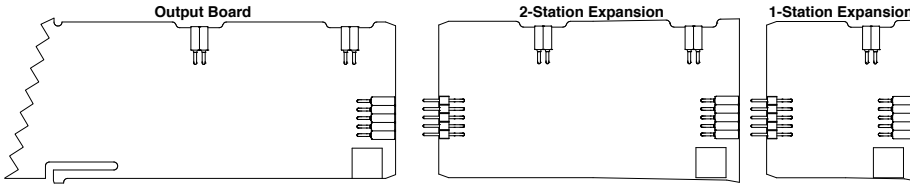
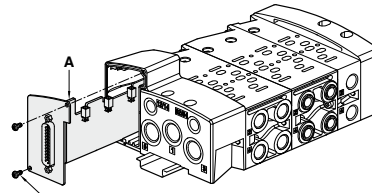
15-pin D-Sub Multipole Connection (24 VDC)						
Number of Stations	Qty	Output Board	Qty	2-Station Expansion	Qty	1-Station Expansion
2-station	1	VS1872218-KF00 ●				
3-station	1	VS1872218-KF00 ●			1	VS1872255-KF00 ●
4-station	1	VS1872205-KF00 ●				
5-station	1	VS1872205-KF00 ●			1	VS1872255-KF00 ●
6-station	1	VS1872205-KF00 ●	1	VS1872213-KF00 ●		
7-station	1	VS1872205-KF00 ●	1	VS1872213-KF00 ●	1	VS1872255-KF00 ●

25-pin D-Sub Multipole Connection (24 VDC)						
Number of Stations	Qty	Output Board	Qty	2-Station Expansion	Qty	1-Station Expansion
2-station	1	VS1872219-KF00 ●				
3-station	1	VS1872219-KF00 ●			1	VS1872255-KF00 ●
4-station	1	VS1872200-KF00 ●				
5-station	1	VS1872200-KF00 ●			1	VS1872255-KF00 ●
6-station	1	VS1872201-KF00 ●				
7-station	1	VS1872201-KF00 ●			1	VS1872255-KF00 ●
8-station	1	VS1872202-KF00 ●				
9-station	1	VS1872202-KF00 ●			1	VS1872255-KF00 ●
10-station	1	VS1872202-KF00 ●	1	VS1872213-KF00 ●		
11-station	1	VS1872202-KF00 ●	1	VS1872213-KF00 ●	1	VS1872255-KF00 ●
12-station	1	VS1872202-KF00 ●	2	VS1872213-KF00 ●		

● In stock  
◆ Ships within one week

**STEP 4**

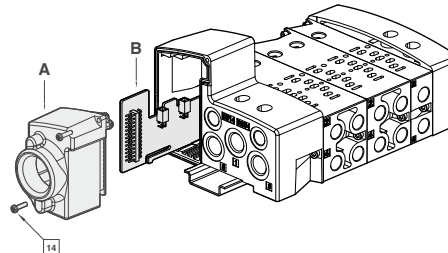
Determine the electrical control of your manifold by using the tables below to select your multipole connection.



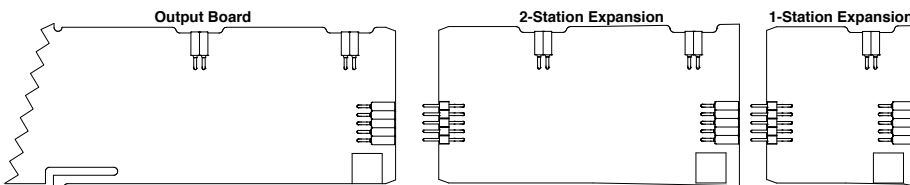
44-pin D-Sub Multipole Connection (24 VDC)						
Number of Stations	Qty	Output Board	Qty	2-Station Expansion	Qty	1-Station Expansion
10-station	1	VS1872206-KF00 ●				
11-station	1	VS1872206-KF00 ●			1	VS1872255-KF00 ●
12-station	1	VS1872204-KF00 ●				
13-station	1	VS1872204-KF00 ●			1	VS1872255-KF00 ●
14-station	1	VS1872204-KF00 ●	1	VS1872213-KF00 ●		
15-station	1	VS1872204-KF00 ●	1	VS1872213-KF00 ●	1	VS1872255-KF00 ●
16-station	1	VS1872204-KF00 ●	2	VS1872213-KF00 ●		

**STEP 4A**

Order 1" Conduit Housing for use with 1" Conduit Multipole Connector.



1" Conduit Housing		
Part Number	Description	Voltage
VS2672742-KG00 ●	E-connector kit, 1" NPTF Conduit entry	115 VAC, 24 VDC





1" Conduit Multipole Connection (24 VDC or 115 VAC)						
Number of Stations	Qty	Output Board	Qty	2-Station Expansion	Qty	1-Station Expansion
2-station	1	VS1872208-KF00 ●				
3-station	1	VS1872208-KF00 ●			1	VS1872256-KF00 ●
4-station	1	VS1872209-KF00 ●				
5-station	1	VS1872209-KF00 ●			1	VS1872256-KF00 ●
6-station	1	VS1872210-KF00 ●				
7-station	1	VS1872210-KF00 ●			1	VS1872256-KF00 ●
8-station	1	VS1872211-KF00 ●				
9-station	1	VS1872211-KF00 ●			1	VS1872256-KF00 ●
10-station	1	VS1872211-KF00 ●	1	VS1872215-KF00 ●		
11-station	1	VS1872211-KF00 ●	1	VS1872215-KF00 ●	1	VS1872256-KF00 ●
12-station	1	VS1872211-KF00 ●	2	VS1872215-KF00 ●		

● In stock  
◆ Ships within one week



## STEP 5

## Choose your VS18 valves



## 2X3/2 Single solenoid/spring actuated valves

Model No.	Spool type	Flow Cv	Operating pressure PSI	Manual override	Voltage	Solenoid
						
VS18SA11DF313A <sup>1</sup>	Soft Seal	0.61	36 to 145	Non-Locking	24 VDC	VS2672930-KG00 ●
VS18SA11DF213A <sup>1</sup>	Soft Seal	0.61	36 to 145	Locking	24 VDC	VS2672932-KG00 ●
VS18SB11DF313A <sup>2</sup>	Soft Seal	0.61	36 to 145	Non-Locking	24 VDC	VS2672930-KG00 ●
VS18SC11DF313A	Soft Seal	0.61	36 to 145	Non-Locking	24 VDC	VS2672930-KG00 ●
VS18SA11DF318A <sup>1</sup>	Soft Seal	0.61	36 to 145	Non-Locking	115 VAC	VS2672931-KG00 ●
VS18SA11DF218A <sup>1</sup>	Soft Seal	0.61	36 to 145	Locking	115 VAC	VS2672933-KG00 ●
VS18SB11DF318A <sup>2</sup>	Soft Seal	0.61	36 to 145	Non-Locking	115 VAC	VS2672931-KG00 ●
VS18SC11DF318A <sup>1,2</sup>	Soft Seal	0.61	36 to 145	Non-Locking	115 VAC	VS2672931-KG00 ●



## 5/2 Single solenoid/spring actuated valves

Model No.	Spool type	Flow Cv	Operating pressure PSI	Manual override	Voltage	Solenoid
						
VS18S517DF313A ●	Soft Seal	0.66	29 to 145	Non-Locking	24 VDC	VS2672930-KG00 ●
VS18S517DF213A ●	Soft Seal	0.66	29 to 145	Locking	24 VDC	VS2672932-KG00 ●
VS18G517DF313A ●	Glandless	0.56	23 to 145	Non-Locking	24 VDC	VS2672930-KG00 ●
VS18G517DF213A ●	Glandless	0.56	23 to 145	Locking	24 VDC	VS2672932-KG00 ●
VS18S517DF318A ●	Soft Seal	0.66	29 to 145	Non-Locking	115 VAC	VS2672931-KG00 ●
VS18S517DF218A ●	Soft Seal	0.66	29 to 145	Locking	115 VAC	VS2672933-KG00 ●
VS18G517DF318A ●	Glandless	0.56	23 to 145	Non-Locking	115 VAC	VS2672931-KG00 ●
VS18G517DF218A ●	Glandless	0.56	23 to 145	Locking	115 VAC	VS2672933-KG00 ●

## 5/2 Double solenoid actuated valves

Model No.	Spool type	Flow Cv	Operating pressure PSI	Manual override	Voltage	Solenoid
						
VS18S511DF313A ●	Soft Seal	0.66	29 to 145	Non-Locking	24 VDC	VS2672930-KG00 ●
VS18S511DF213A ●	Soft Seal	0.66	29 to 145	Locking	24 VDC	VS2672932-KG00 ●
VS18G511DF313A ●	Glandless	0.56	29 to 145	Non-Locking	24 VDC	VS2672930-KG00 ●
VS18G511DF213A ●	Glandless	0.56	29 to 145	Locking	24 VDC	VS2672932-KG00 ●
VS18S511DF318A ●	Soft Seal	0.66	29 to 145	Non-Locking	115 VAC	VS2672931-KG00 ●
VS18S511DF218A ●	Soft Seal	0.66	29 to 145	Locking	115 VAC	VS2672933-KG00 ●
VS18G511DF318A ●	Glandless	0.56	29 to 145	Non-Locking	115 VAC	VS2672931-KG00 ●
VS18G511DF218A ●	Glandless	0.56	29 to 145	Locking	115 VAC	VS2672933-KG00 ●

## 5/3 Double solenoid actuated valves

Model No.	Spool type	Flow Cv	Operating pressure PSI	Manual override	Voltage	Solenoid
						
VS18S611DF313A <sup>3</sup> ●	Soft Seal	0.66	29 to 145	Non-Locking	24 VDC	VS2672930-KG00 ●
VS18S711DF313A <sup>4</sup> ●	Soft Seal	0.66	29 to 145	Non-Locking	24 VDC	VS2672930-KG00 ●
VS18S611DF318A <sup>3</sup> ●	Soft Seal	0.66	29 to 145	Non-Locking	115 VAC	VS2672931-KG00 ●
VS18S711DF318A <sup>4</sup> ●	Soft Seal	0.66	29 to 145	Non-Locking	115 VAC	VS2672931-KG00 ●

1 Normally closed

2 Normally open

3 All ports blocked

4 Center open to exhaust

● In stock

◆ Ships within one week

Output boards with D-sub connectors

Model No.	Description	Expandable to max stations	Voltage
VS1872217-KF00	2-station PCB 9 pin	4	24 VDC
VS1872218-KF00	2-station PCB 15 pin	6	24 VDC
VS1872205-KF00	4-station PCB 15 pin	7	24 VDC
VS1872219-KF00	2-station PCB 25 pin	6	24 VDC
VS1872200-KF00	4-station PCB 25 pin	8	24 VDC
VS1872201-KF00	6-station PCB 25 pin	10	24 VDC
VS1872202-KF00	8-station PCB 25 pin	12	24 VDC
VS1872206-KF00	10-station PCB 44 pin	14	24 VDC
VS1872204-KF00	12-station PCB 44 pin	16	24 VDC
VS1872255-KF00	Multipole PCB 1 station		24 VDC
VS1872213-KF00	Multipole PCB 2 station		24 VDC






Expansion output boards for D-sub connectors

Model No.	Description	Voltage
VS2672755-KF00	Multipole PCB 1 station	24 VDC
VS2672713-KF00	Multipole PCB 2 station	24 VDC

Valve and Manifold Gaskets

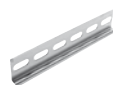





Part Number	Description
94.00907	VS18 Valve to VS18 Manifold Gasket
94.01015	VS18 Manifold to VS18 Manifold Gasket
94.00816	VS18 Electrical Gasket

Multipole Accessories with IP65\*

D-Sub connector 9-pin	D-Sub connector 15-pin	D-Sub connector 25-pin	D-Sub connector 44-pin	M23 connector 19-pin
				
VS2672910-KG00 3' (1m)	VS2672915-KG00 3' (1m)	V11569-E01 3' (1m)	V11570-E01 3' (1m)	VS2672943-KG00 3' (1m)
VS2672911-KG00 10' (3m)	VS2672916-KG00 10' (3m)	V11569-E03 10' (3m)	V11570-E03 10' (3m)	VS2672944-KG00 10' (3m)
VS2672912-KG00 16' (5m)	VS2672917-KG00 16' (5m)	V11569-E05 16' (5m)	V11570-E05 16' (5m)	VS2672945-KG00 16' (5m)






\* Required for ATEX.

Accessories


DIN EN 50 022 rail (1 meter)	DIN-rail mounting kit	Blanking disc to modular sub-base	Manual override set-up kit	Extended manual override kit	Blanking plug for base connector hole <sup>1</sup>
					
V10009-C00 (35 x 7.5 mm)	V70531-KA0	VS1872405-KF00 (Ports 1, 3, 5)	VS2673606-KG00	VS2672960-KG00	VS2672914-KG00
V10592-C01 (35 x 15 mm)		VS1872406-KF00 (Port 12/14)			

1) When V40/V41 valves are fitted on VS18 bases.

Sandwich plates and base accessories

Single pressure regulator plate	Double pressure regulator plate	Sandwich flow control	Blanking plate	Replacement gauge
				
VS1872400-KF10 (Port 1)	VS1872400-KF40 (Ports 2+4)	VS1872401-KF00 (Ports 3+5)	VS1872404-KF00	V70534-500
VS1872400-KF20 (Port 2)				
VS1872400-KF30 (Port 4)				

Stand alone subbase

Model No.	Description	Ports 1,2, 3,4 & 5	Ports 12/14 & 82/84	Electrical connection	Voltage
					
VS1872010-PF00	Stand alone single subbase	NPFT 1/8"	NPFT 1/8"	M12	24 VDC
VS1872011-PF00	Stand alone single subbase	NPFT 1/8"	NPFT 1/8"	1/2" Conduit	115 VAC or 24 VDC

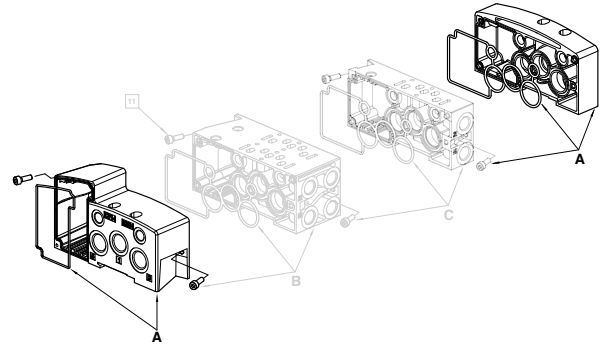
- In stock
- ◆ Ships within one week

**STEP 1**

Start with your 3/8" NPT Endplate kit for multipole.

**A – End plate kit**

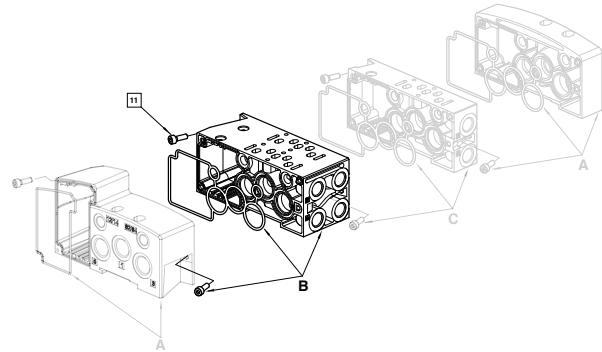
Model	Description	Ports 2 & 4 NPTF 3/8	Ports 12/14 & 82/84 NPTF 1/8
VS2672500-SGCO	● End plate kit for Multipole		

**STEP 2**

Determine port size: 1/4" NPT, or 3/8" PIF (push-in fitting) ports, and number of valve stations required.

**B – Double station modular sub-base**

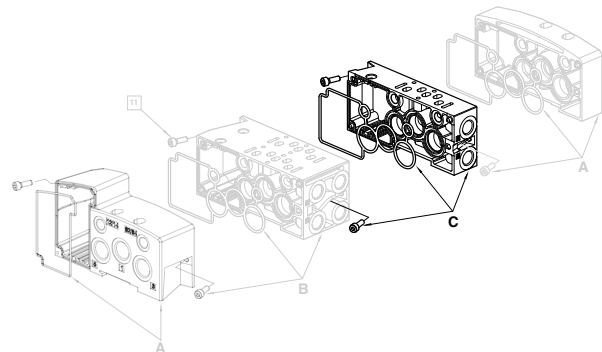
Model	Ports 2 & 4 NPTF 1/4 PIF 3/8
VS2672502-RGFO	●
VS2672502-2GFO	●

**STEP 3**

If your manifold has an even number of stations skip this step. For an odd number subbase manifold order one subbase with either 1/4" NPT, or 3/8" PIF.

**C – Single station modular sub-base**

Model	Ports 2 & 4 NPTF 1/4 PIF 3/8
VS2672503-RGFO	●
VS2672503-2GFO	●

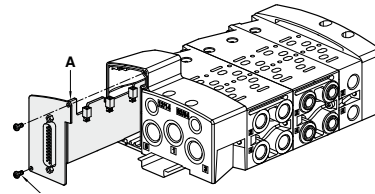


- In stock
- ◆ Ships within one week

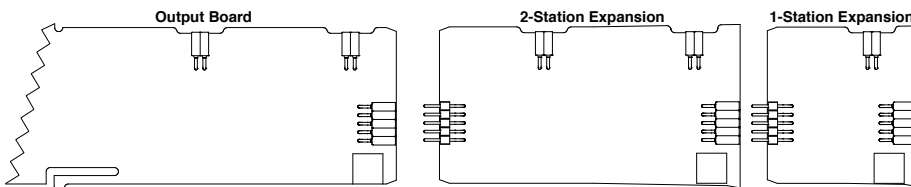


**STEP 4**

Determine the electrical control of your manifold by using the tables below to select your multipole connection.



Multipole Connection	Number of Stations														Voltage		
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	24Vdc	115Vac
9-pin D-Sub	Y	Y	Y													Y	
15-pin D-Sub	Y	Y	Y	Y	Y	Y										Y	
25-Pin D-Sub	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y					Y	
44-pin D-Sub									Y	Y	Y	Y	Y	Y	Y	Y	
1" Conduit	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y					Y	Y

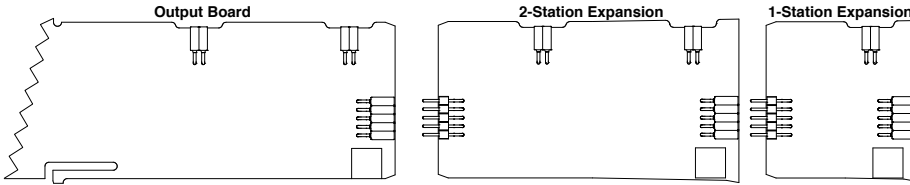
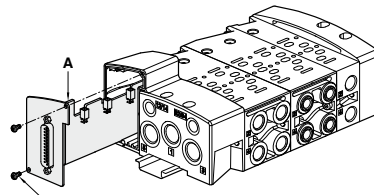


9-pin D-Sub Multipole Connection (24 VDC)						
Number of Stations	Qty	Output Board	Qty	2-Station Expansion	Qty	1-Station Expansion
2-station	1	VS2672717-KG00 ●				
3-station	1	VS2672717-KG00 ●			1	VS2672755-KG00 ●
4-station	1	VS2672717-KG00 ●	1	VS2672713-KG00 ●		

15-pin D-Sub Multipole Connection (24 VDC)						
Number of Stations	Qty	Output Board	Qty	2-Station Expansion	Qty	1-Station Expansion
2-station	1	VS2672718-KG00 ●				
3-station	1	VS2672718-KG00 ●			1	VS2672755-KG00 ●
4-station	1	VS2672705-KG00 ●				
5-station	1	VS2672705-KG00 ●			1	VS2672755-KG00 ●
6-station	1	VS2672705-KG00 ●	1	VS2672713-KG00 ●		
7-station	1	VS2672705-KG00 ●	1	VS2672713-KG00 ●	1	VS2672755-KG00 ●

25-pin D-Sub Multipole Connection (24 VDC)						
Number of Stations	Qty	Output Board	Qty	2-Station Expansion	Qty	1-Station Expansion
2-station	1	VS2672719-KG00 ●				
3-station	1	VS2672719-KG00 ●			1	VS2672755-KG00 ●
4-station	1	VS2672700-KG00 ●				
5-station	1	VS2672700-KG00 ●			1	VS2672755-KG00 ●
6-station	1	VS2672701-KG00 ●				
7-station	1	VS2672701-KG00 ●			1	VS2672755-KG00 ●
8-station	1	VS2672702-KG00 ●				
9-station	1	VS2672702-KG00 ●			1	VS2672755-KG00 ●
10-station	1	VS2672702-KG00 ●	1	VS2672713-KG00 ●		
11-station	1	VS2672702-KG00 ●	1	VS2672713-KG00 ●	1	VS2672755-KG00 ●
12-station	1	VS2672702-KG00 ●	2	VS2672713-KG00 ●		

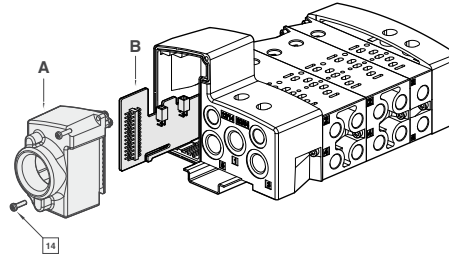
- In stock
- ◆ Ships within one week



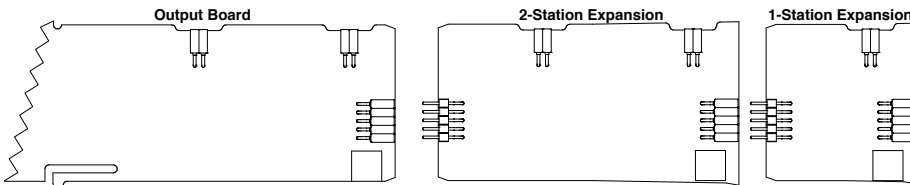
44-pin D-Sub Multipole Connection (24 VDC)						
Number of Stations	Qty	Output Board	Qty	2-Station Expansion	Qty	1-Station Expansion
10-station	1	VS2672706-KG00 ●				
11-station	1	VS2672706-KG00 ●				1 VS2672755-KG00 ●
12-station	1	VS2672704-KG00 ●				
13-station	1	VS2672704-KG00 ●				1 VS2672755-KG00 ●
14-station	1	VS2672704-KG00 ●	1	VS2672713-KG00 ●		
15-station	1	VS2672704-KG00 ●	1	VS2672713-KG00 ●	1	VS2672755-KG00 ●
16-station	1	VS2672704-KG00 ●	2	VS2672713-KG00 ●		

**STEP 4A**

Order 1" Conduit Housing for use with 1" Conduit Multipole Connector.



1" Conduit Housing		
Part Number	Description	Voltage
VS2672742-KG00 ●	E-connector kit, 1" NPTF Conduit entry	115 VAC, 24 VDC



1" Conduit Multipole Connection (24 VDC or 115 VAC)						
Number of Stations	Qty	Output Board	Qty	2-Station Expansion	Qty	1-Station Expansion
2-station	1	VS2672708-KG00 ●				
3-station	1	VS2672708-KG00 ●				1 VS2672756-KG00 ●
4-station	1	VS2672709-KG00 ●				
5-station	1	VS2672709-KG00 ●				1 VS2672756-KG00 ●
6-station	1	VS2672710-KG00 ●				
7-station	1	VS2672710-KG00 ●				1 VS2672756-KG00 ●
8-station	1	VS2672711-KG00 ●				
9-station	1	VS2672711-KG00 ●				1 VS2672756-KG00 ●
10-station	1	VS2672711-KG00 ●	1	VS2672715-KG00 ●		
11-station	1	VS2672711-KG00 ●	1	VS2672715-KG00 ●	1	VS2672756-KG00 ●
12-station	1	VS2672711-KG00 ●	2	VS2672715-KG00 ●		



- In stock
- ◆ Ships within one week

**STEP 5**



**Choose your VS26 valves**

**Models – VS26 Series**



**2X3/2 Double solenoid/spring actuated valves**

Model No.	Spool type	Flow Cv	Operating pressure PSI	Manual override	Voltage	Solenoid
						
VS26SA11DF313A <sup>1</sup> ●	Soft Seal	1.27	36 to 145	Non-Locking	24 VDC	VS2672930-KG00 ●
VS26SA11DF213A <sup>1</sup> ●	Soft Seal	1.27	36 to 145	Locking	24 VDC	VS2672932-KG00 ●
VS26SB11DF313A <sup>2</sup> ●	Soft Seal	1.27	36 to 145	Non-Locking	24 VDC	VS2672930-KG00 ●
VS26SC11DF313A <sup>1,2</sup> ●	Soft Seal	1.27	36 to 145	Non-Locking	24 VDC	VS2672930-KG00 ●



**5/2 Solenoid/spring actuated valves**

Model No.	Spool type	Flow Cv	Operating pressure PSI	Manual override	Voltage	Solenoid
						
VS26S517DF313A ●	Soft Seal	1.37	29 to 145	Non-Locking	24 VDC	VS2672930-KG00 ●
VS26S517DF213A ●	Soft Seal	1.37	29 to 145	Locking	24 VDC	VS2672932-KG00 ●
VS26G517DF313A ●	Glandless	1.02	23 to 145	Non-Locking	24 VDC	VS2672930-KG00 ●
VS26G517DF213A ●	Glandless	1.02	23 to 145	Locking	24 VDC	VS2672932-KG00 ●
VS26S517DF318A ●	Soft Seal	1.37	29 to 145	Non-Locking	115 VAC	VS2672931-KG00 ●
VS26S517DF218A ●	Soft Seal	1.37	29 to 145	Locking	115 VAC	VS2672933-KG00 ●
VS26G517DF318A ●	Glandless	1.02	23 to 145	Non-Locking	115 VAC	VS2672931-KG00 ●
VS26G517DF218A ●	Glandless	1.02	23 to 145	Locking	115 VAC	VS2672933-KG00 ●

**2X3/2 Solenoid/spring actuated valves**

Model No.	Spool type	Flow Cv	Operating pressure PSI	Manual override	Voltage	Solenoid
						
VS26SA11DF318A <sup>1</sup> ●	Soft Seal	1.27	36 to 145	Non-Locking	115 VAC	VS2672931-KG00 ●
VS26SA11DF218A <sup>1</sup> ●	Soft Seal	1.27	36 to 145	Locking	115 VAC	VS2672933-KG00 ●
VS26SB11DF318A <sup>2</sup> ●	Soft Seal	1.27	36 to 145	Non-Locking	115 VAC	VS2672931-KG00 ●
VS26SC11DF318A <sup>1,2</sup> ●	Soft Seal	1.27	36 to 145	Non-Locking	115 VAC	VS2672931-KG00 ●

**5/2 Double solenoid actuated valves**

Model No.	Spool type	Flow Cv	Operating pressure PSI	Manual override	Voltage	Solenoid
						
VS26S511DF313A ●	Soft Seal	1.37	29 to 145	Non-Locking	24 VDC	VS2672930-KG00 ●
VS26S511DF213A ●	Soft Seal	1.37	29 to 145	Locking	24 VDC	VS2672932-KG00 ●
VS26G511DF313A ●	Glandless	1.02	29 to 145	Non-Locking	24 VDC	VS2672930-KG00 ●
VS26G511DF213A ●	Glandless	1.02	29 to 145	Locking	24 VDC	VS2672932-KG00 ●
VS26S511DF318A ●	Soft Seal	1.37	29 to 145	Non-Locking	115 VAC	VS2672931-KG00 ●
VS26S511DF218A ●	Soft Seal	1.37	29 to 145	Locking	115 VAC	VS2672933-KG00 ●
VS26G511DF318A ●	Glandless	1.02	29 to 145	Non-Locking	115 VAC	VS2672931-KG00 ●
VS26G511DF218A ●	Glandless	1.02	29 to 145	Locking	115 VAC	VS2672933-KG00 ●

1 Normally closed



2 Normally open

1 Normally closed

2 Normally open

- In stock
- ◆ Ships within one week


**Models – VS26 Series**
**5/3 Double solenoid actuated valves**

Model No.	Spool type	Flow Cv	Operating pressure PSI	Manual override	Voltage	Solenoid
						
VS26S611DF313A <sup>3</sup> ●	Soft Seal	1.37	36 to 145	Non-Locking	24 VDC	VS2672930-KG00 ●
VS26S711DF313A <sup>4</sup> ●	Soft Seal	1.37	36 to 145	Non-Locking	24 VDC	VS2672930-KG00 ●
VS26S611DF318A <sup>3</sup> ●	Soft Seal	1.37	36 to 145	Non-Locking	115 VAC	VS2672931-KG00 ●
VS26S711DF318A <sup>4</sup> ●	Soft Seal	1.37	36 to 145	Non-Locking	115 VAC	VS2672931-KG00 ●

3 All ports blocked

4 Center open to exhaust


**VS26 BASES AND ACCESSORIES**
**Single station expansion subbase**

Model No.	Description	Ports 1, 3 & 5
		
VS2672503-RGF0 ●	1-station base threaded port	NPTF 1/8
VS2672503-2GF0 ●	1-station base with fitting	3/8" PIF


**Valve and Manifold Gaskets**

Part Number	Description
94.00759 ●	VS26 Valve to VS26 Manifold Gasket
94.00815 ●	VS26 Manifold to VS26 Manifold Gasket
94.00816 ●	VS26 Electrical Gasket


**Double station subbase**

Model No.	Description	Ports 2 & 4
		
VS2672502-RGF0 ●	2-station base threaded port	NPTF 1/8
VS2672502-2GF0 ●	2-station base with fitting	3/8" PIF

**Stand alone subbase**

Model No.	Description	Ports 1,2, 3,4 & 5	Ports 12/14 & 82/84	Electrical connection	Voltage
					
VS2672510-RG00 ●	Stand alone single subbase	NPTF 1/4"	NPTF 1/8"	M12	24 VDC
VS2672511-RG00 ●	Stand alone single subbase	NPTF 1/4"	NPTF 1/8"	1/2" conduit	115 VAC or 24 VDC

**Endplate kit for multipole**

Model No.	Description	Ports 1, 3, & 5	Ports 12/14 & 82/84
			
VS2672500-SGC0 ●	End plate kit for multipole –	NPTF 3/8	NPTF 1/8

● In stock

◆ Ships within one week

**VS26 Multipole Components**  
**Output boards with D-sub connectors**

Model No.	Description	Expandable to max stations	Voltage
VS2672717-KG00 ●	2-station PCB 9-PIN	4	24 VDC
VS2672718-KG00 ●	2-station PCB 15-PIN	6	24 VDC
VS2672705-KG00 ●	4-station PCB 15-PIN	7	24 VDC
VS2672719-KG00 ●	2-station PCB 25-PIN	6	24 VDC
VS2672700-KG00 ●	4-station PCB 25-PIN	8	24 VDC
VS2672701-KG00 ●	6-station PCB 25-PIN	10	24 VDC
VS2672702-KG00 ●	8-station PCB 25-PIN	12	24 VDC
VS2672706-KG00 ●	10-station PCB 44-PIN	14	24 VDC
VS2672704-KG00 ●	12-station PCB 44-PIN	16	24 VDC

**Connector kits**

Model No.	Description	Voltage
VS2672742-KG00 ●	E-Connector Kit 1" Conduit entry	115 VAC or 24 VDC
VS2672743-KG00 ●	E-Connector Kit M23 connector	115 VAC or 24 VDC

**Output boards with conduit connectors**

Model No.	Description	Expandable to max stations	Voltage
VS2672708-KG00 ●	2-station PCB	6	115 VAC or 24 VDC
VS2672709-KG00 ●	4-station PCB	8	115 VAC or 24 VDC
VS2672710-KG00 ●	6-station PCB	10	115 VAC or 24 VDC
VS2672711-KG00 ●	8-station PCB	12	115 VAC or 24 VDC






**Expansion output boards for D-sub connectors**

Model No.	Description	Voltage
VS2672755-KG00 ●	Multipole PCB 1 station	24 VDC
VS2672713-KG00 ●	Multipole PCB 2 station	24 VDC

**Expansion output boards for 1" conduit & M23**







Model No.	Description	Voltage
VS2672756-KG00 ●	Multipole PCB 1 station	115 VAC or 24 VDC
VS2672715-KG00 ●	Multipole PCB 2 station	115 VAC or 24 VDC

**Multipole Accessories with IP65\***

D-Sub connector 9-pin	D-Sub connector 15-pin	D-Sub connector 25-pin	D-Sub connector 44-pin	M23 connector 19-pin
				
VS2672910-KG00 3' (1m) ●	VS2672915-KG00 3' (1m) ●	V11569-E01 3' (1m) ●	V11570-E01 3' (1m) ●	VS2672943-KG00 3' (1m) ●
VS2672911-KG00 10' (3m) ●	VS2672916-KG00 10' (3m) ●	V11569-E03 10' (3m) ●	V11570-E03 10' (3m) ●	VS2672944-KG00 10' (3m) ●
VS2672912-KG00 16' (5m) ●	VS2672917-KG00 16' (5m) ●	V11569-E05 16' (5m) ●	V11570-E05 16' (5m) ●	VS2672945-KG00 16' (5m) ●






\* Required for ATEX.

**Accessories**

DIN EN 50 022 rail (1 meter)	DIN-rail mounting kit	Blanking disc to modular sub-base	Manual override set-up kit	Extended manual override kit	Blanking plug for base connector hole <sup>1</sup>
					
V10009-C00 (35 x 7.5 mm) ●	V70531-KA0 ●	V70522-K00 (Ports 1, 3, 5)	VS2673606-KG00 ●	VS2672960-KG00 ●	VS2672914-KG00 ●
V10592-C01 (35 x 15 mm) ●		V70523-K00 (Ports 12/14)			

1) When V40/V41 valves are fitted on VS18 bases.

**Sandwich plates and base accessories**

Single pressure regulator plate	Double pressure regulator plate	Sandwich flow control	Blanking plate	Replacement gauge
				
VS2672900-KG10 (port 1) ●	VS2672900-KG40 (port 2+4) ●	VS2672901-KG00 (ports 3+5) ●	VS2672904-KG00 ●	V70534-500 ●
VS2672900-KG20 (port 2) ●				
VS2672900-KG30 (port 4) ●				

- In stock
- ◆ Ships within one week

- High performance, compact design
- Flexible sub-base system
- Multipressure system capability
- Wide range of accessories
- Dual spool technology
  - V40 Glandless spool and sleeve (long life)
  - V41 Softseal spool (high flow)
- Easy to convert from internal to external pilot supply



**Technical data**

**Medium:**

Compressed air, 40 µm filtered, lubricated or non-lubricated

**Operation:**

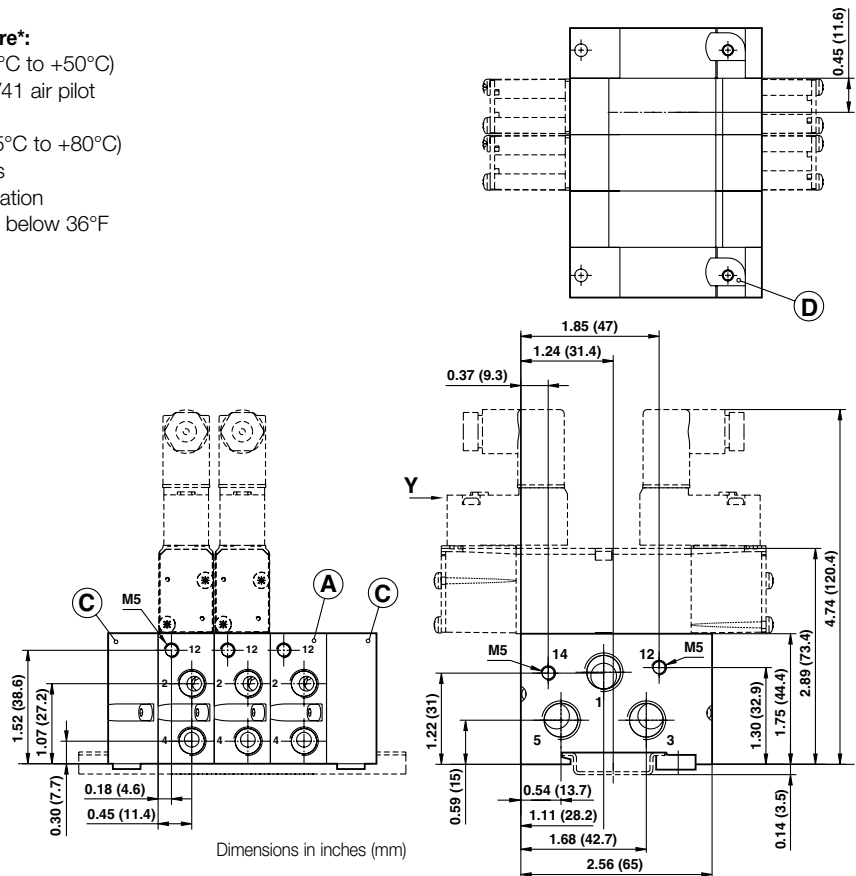
V40: Glandless spool valve, solenoid pilot or air pilot actuated  
V41: Softseal spool valve, solenoid pilot or air pilot actuated

**Operating pressure:**

145 psig (10 bar) V41 models and V40 solenoid pilot actuated valves with internal pilot supply  
232 psig (16 bar) V40 solenoid pilot actuated valves with external pilot supply and V40 air pilot actuated valves


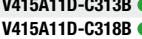
**Ambient temperature\*:**

5°F to +122°F (-15°C to +50°C)  
V40/V41 sol. and V41 air pilot models.  
5°F\* to +176°F (-15°C to +80°C)  
V40 air pilot models  
\*Consult our Application Engineering for use below 36°F (+2°C)



**Models – Softseal Spool (V41 Series)**






**2 X 3/2 NC/NC valves – Solenoid/solenoid actuated valves with internal pilot supply**

Model Number	Spool type	Size	Flow CV	Operating pressure PSI	Voltage	Valve body	Solenoid	Connector
 V415A11D-C313B	Soft Seal	18mm	0.62	36-145	24 VDC	V415A11D-A1000	VZC7L2C1-C313A	V10027-D00
 V415A11D-C318B	Soft Seal	18mm	0.62	36-145	115V 50/60Hz	V415A11D-A1000	VZC7L2C1-C318A	V10027-D00








- In stock
- ◆ Ships within one week

**Models – Softseal Spool (V41 Series) (cont.)**








**2 X 3/2 NC/NC valves – Solenoid/solenoid actuated valves with internal pilot supply**

Model Number	Spool type	Size	Flow CV	Operating pressure PSI	Voltage	Valve body	Solenoid	Connector
 <b>V415A11D-C313A</b> ●	Soft Seal	18mm	0.62	36-145	24 VDC			Not included
<b>V415A11D-C318A</b> ●	Soft Seal	18mm	0.62	36-145	115V 50/60Hz			Not included








**5/2 Valves – Solenoid/spring actuated valves with internal pilot supply**

Model Number	Spool type	Size	Flow CV	Operating pressure PSI	Voltage	Valve body	Solenoid	Connector
 <b>V415517D-C313B</b> ●	Soft Seal	18 mm	0.66	29-145	24 VDC			 V10027-D00 ●
<b>V415517D-C318B</b> ●	Soft Seal	18 mm	0.66	29-145	110/120 VAC			 V10027-D00 ●


**5/2 Valves – Solenoid/solenoid actuated valves with internal pilot supply**

Model Number	Spool type	Size	Flow CV	Operating pressure PSI	Voltage	Valve body	Solenoid	Connector
 <b>V415511D-C313B</b> ●	Soft Seal	18 mm	0.66	29-145	24 VDC			 V10027-D00 ●
<b>V415511D-C318B</b> ●	Soft Seal	18 mm	0.66	29-145	110/120 VAC			 V10027-D00 ●

**5/3 Valves – All ports blocked, Solenoid/solenoid actuated valves internal pilot supply**


Model Number	Spool type	Size	Flow CV	Operating pressure PSI	Voltage	Valve body	Solenoid	Connector
 <b>V415611D-C313B</b> ●	Soft Seal	18mm	0.69	29-145	24 VDC			 V10027-D00 ●
<b>V415611D-C318B</b> ●	Soft Seal	18mm	0.69	29-145	115V 50/60Hz			 V10027-D00 ●

**5/2 Valves – Air pilot/air pilot air actuated valves**

Model Number	Spool type	Size	Flow CV	Operating pressure PSI	Voltage	Valve body	Solenoid	Connector
 <b>V415533A-X0020*</b> ●	Soft Seal	18 mm	0.66	26" Hg - 145	NA	NA	NA	NA

\* Requires modular sub-base V70426-P5F








**5/2 Valves – Air pilot/spring actuated valves**

Model Number	Spool type	Size	Flow CV	Operating pressure PSI	Voltage	Valve body	Solenoid	Connector
 <b>V415537A-X0090*</b> ●	Soft Seal	18 mm	0.66	26" Hg - 145	NA	NA	NA	NA








\* Requires modular sub-base V70426-P5F

- In stock
- ◆ Ships within one week


**Models – Glandless Spool (V40 Series)**
**5/2 Valves – Solenoid/spring actuated valves with internal pilot supply**

Model Number	Spool type	Size	Flow CV	Operating pressure PSI	Voltage	Valve body	Solenoid	Connector
 <b>V405516D-C313B</b> ●	Glandless	18 mm	0.58	29-145	24 VDC	 ●	 ●	 ●
<b>V405516D-C318B</b> ●	Glandless	18 mm	0.58	29-145	110/120 VAC	 ●	 ●	 ●

**5/2 Valves – Double solenoid actuated valves with internal pilot supply**


Model Number	Spool type	Size	Flow CV	Operating pressure PSI	Voltage	Valve body	Solenoid	Connector
 ●	Glandless	18 mm	0.58	29-145	24 VDC	 ●	 ●	 ●
<b>V405511D-C318B</b> ●	Glandless	18 mm	0.58	29-145	110/120 VAC	 ●	 ●	 ●

**5/2 Valves – Pilot air/air actuated valves**

Model Number	Spool type	Size	Flow CV	Operating pressure PSI	Voltage	Valve body	Solenoid	Connector
 ●	Glandless	18 mm	0.58	26" Hg - 232	NA	NA	NA	NA

\* Requires modular sub-base V70426-P5F

**5/2 Valves – Pilot air/spring actuated valves**

Model Number	Spool type	Size	Flow CV	Operating pressure PSI	Voltage	Valve body	Solenoid	Connector
 ●	Glandless	18 mm	0.58	26" Hg - 232	NA	NA	NA	NA





\* Requires modular sub-base V70426-P5F

● In stock





◆ Ships within one week
























### Bases and Accessories

Flow regulator plate	DIN-rail mounting kit	Blanking plate for unused station	Blanking disk to modular sub-base (qty 1)
			
V70428-K50 (Ports 3+5 reg.) ●	V70531-KA0 ●	V70400-K50 ●	V70422-K50 (Ports 1, 3 or 5) ●

### Single station

Model No.	Description	Accessories				
		Thread NPT	Tube Size	Straight Fitting	90° swivel elbow fitting	Muffler
						
V70401-P5B ●	Single station side ported with pilot ports – 1/8"	1/8	1/4"	C24250418 ●	C24470418 ●	MS001A ●

### Modular sub-bases and end plates

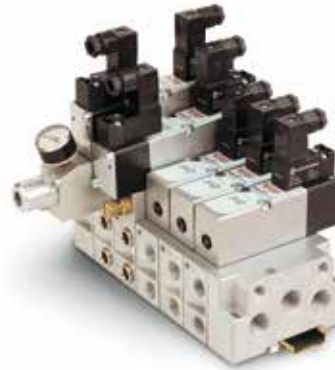
Model No.	Description	Thread	Tube Size	Straight Fitting	90° swivel elbow fitting	Muffler
						
V70425-P5F ●	Modular sub-base side ported (PTF) without pilot ports – 1/8"	1/8	1/4"	C24250418 ●	C24470418 ●	MS001A ●
V70426-P5F ●	Modular sub-base side ported (PTF) with pilot ports – 1/8"	1/8	1/4"	C24250418 ●	C24470418 ●	MS001A ●
						
V70425-15F ●	Modular sub-base side ported (PIF) without pilot ports – 1/4"	1/4	3/8"	–	–	–
						
V70432-P5F ●	Double modular sub-base side ports w/o pilot ports – 1/8" PTF	1/8	1/4"	C24250418 ●	C24470418 ●	MS001A ●
						
V70424-R5C ●	End plate kit. End ported – 1/4" PTF	1/4	3/8"	C24250628 ●	C24470628 ●	MS002A ●
						
V70431-P5F ●	End plate kit w/ 2 side ported valve stations w/o pilot ports –					
	Inlet ports 1/4" PTF	1/4	3/8"	C24250628 ●	C24470628 ●	MS002A ●
	Exhaust ports 1/8" PTF	1/8	1/4"	C24250418 ●	C24470418 ●	MS001A ●
						
V70429-P50 ●	Intermediate supply/exhaust manifold – 1/8" NPTF	1/4	3/8"	C24250628 ●	C24470628 ●	MS002A ●

### Valve and Manifold Gaskets

Part Number	Description
94.00367 ●	V40/41 Valve to V40/41 Manifold Gasket
94.00517 ●	V40/41 Manifold to V40/41 Manifold Gasket

- In stock
- ◆ Ships within one week

- High performance, compact design
- Flexible sub-base system
- Multipressure system capability
- Wide range of accessories
- Dual spool technology
- V44 Glandless spool and sleeve (long life)
- V45 Softseal spool (high flow)
- Easy to convert from internal to external pilot supply
- Valve exchange under pressure



**Technical data**

**Medium:**

Compressed air, 40 µm filtered, lubricated or non-lubricated

**Operation:**

V44: Glandless spool valve, solenoid pilot or air pilot actuated  
V45: Softseal spool valve, solenoid pilot or air pilot actuated

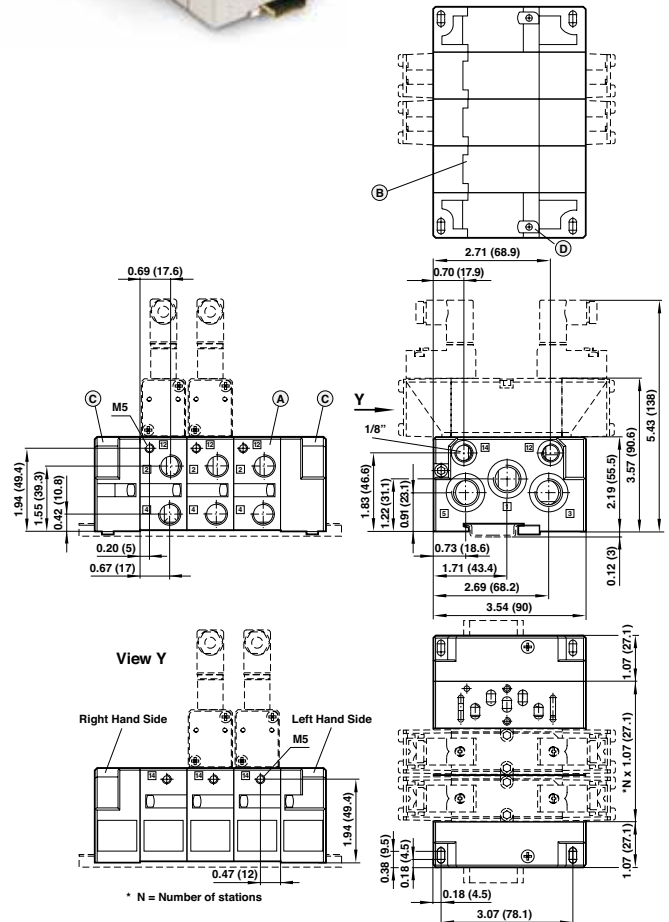
**Operating pressure:**

Maximum pressure  
145 psig (10 bar) V45 models and V44 solenoid pilot actuated valves with internal pilot supply  
232 psig (16 bar) V44 solenoid pilot actuated valves with external pilot supply and V44 air pilot actuated valves

**Ambient temperature\*:**






-15°C to +50°C V44/V45 solenoid and V45 air pilot 5°F to +122°F (-15°C to +50°C) V44/V45 sol. and V45 air pilot models 5°F to +176°F (-15°C to +80°C) V44 air pilot models  
\*Consult our Application Engineering for use below 36° F (+2°C)

Dimensions in inches (mm)



**Models – Softseal Spool (V45 Series)**






**5/2 Valves – Solenoid/spring actuated valves with internal pilot supply and Softseal spool**

Model No.	Size	Flow Cv	Operating pressure psi	Voltage	Valve body	Solenoid	Connector
 V45A517D-C313B	26mm	1.2	23.2-145	24 VDC	 V45A517D-A1000	 VZC7L2C1-C313A	 V10027-D00
V45A517D-C318B	26mm	1.2	23.2-145	115V 50/60 Hz	V45A517D-A1000	VZC7L2C1-C318A	V10027-D00
 V45A517D-C313A	26mm	1.2	23.2-145	24 VDC	V45A517D-A1000	VZC7L2C1-C313A	Not included
V45A517D-C318A	26mm	1.2	23.2-145	115V 50/60Hz	V45A517D-A1000	VZC7L2C1-C318A	Not included




- In stock
- ◆ Ships within one week

**Models – Softseal Spool (V45 Series) cont.**






**5/2 Valves – Double solenoid actuated valves internal pilot supply and Softseal spool**

Model No.	Size	Flow Cv	Operating pressure psi	Voltage	Valve body	Solenoid	Connector
 V45A511D-C313B ●	26mm	1.2	29-145	24 VDC	 V45A511D-A1000 ●	 VZC7L2C1-C313A ●	 V10027-D00 ●
 V45A511D-C318B ●	26mm	1.2	29-145	115V 50/60 Hz	V45A511D-A1000 ●	VZC7L2C1-C318A ●	V10027-D00 ●




**5/2 Valves – Double solenoid/spring actuated valves internal pilot supply and Softseal spool**

Model No.	Size	Flow Cv	Operating pressure psi	Voltage	Valve body	Solenoid	Connector
 V45A511D-C313A ●	26mm	1.2	29-145	24 VDC	 V45A511D-A1000 ●	 VZC7L2C1-C313A ●	Not included


**5/3 Valves – Double solenoid actuated valves internal pilot supply and Softseal spool**

Model No.	Size	Flow Cv	Operating pressure psi	Voltage	Valve body	Solenoid	Connector
 V45A611D-C313B ●	26mm	1.1	29-145	24 VDC	 V45A611D-A1000 ●	 VZC7L2C1-C313A ●	 V10027-D00 ●
 V45A611D-C318B ●	26mm	1.1	29-145	115V 50/60 Hz	V45A611D-A1000 ●	VZC7L2C1-C318A ●	V10027-D00 ●


**5/3 Valves – Double solenoid/spring actuated valves internal pilot supply and Softseal spool**

Model No.	Size	Flow Cv	Operating pressure psi	Voltage	Valve body	Solenoid	Connector
 V45A611D-C313A ●	26mm	1.1 (1100)	29-145	24 VDC	 V45A611D-A1000 ●	 VZC7L2C1-C313A ●	Not included

**5/2 Valves – Pilot air/air actuated valves and Softseal spool**

Model No.	Size	Flow Cv	Operating pressure psi	Voltage	Valve body	Solenoid	Connector
 V45A533A-X0020 ●	26 mm	1.2	26" - 145	NA	NA	NA	NA



**5/2 Valves – Pilot air/spring actuated valves and Softseal spool**

Model No.	Size	Flow Cv	Operating pressure psi	Voltage	Valve body	Solenoid	Connector
 V45A537A-X0090 ●	26 mm	1.2	26" - 145	NA	NA	NA	NA



- In stock
- ◆ Ships within one week

## Models – Softseal Spool (V45 Series)


## 2 X 3/2 Valves – Double solenoid/spring actuated valves with internal pilot supply and Softseal spool

Model No.	Size	Flow Cv	Operating pressure psi	Voltage	Valve body	Solenoid	Connector
							
V45AA11D-C313B ●	18mm	1.1	43.5-145	24 VDC	V45AA11D-A1000 ●	VZC7L2C1-C313A ●	V10027-D00 ●
V45AA11D-C318B ●	18mm	1.1	43.5-145	115V 50/60Hz	V45AA11D-A1000 ●	VZC7L2C1-C318A ●	V10027-D00 ●
							
V45AA11D-C313A ●	18mm	1.1	43.5-145	24 VDC	V45AA11D-A1000 ●	VZC7L2C1-C313A ●	Not included
V45AA11D-C318A ●	18mm	1.1	43.5-145	115V 50/60Hz	V45AA11D-A1000 ●	VZC7L2C1-C318A ●	Not included


## 2 X 3/2 Valves – Solenoid/spring actuated valves with internal pilot supply and Softseal spool

Model No.	Size	Flow Cv	Operating pressure psi	Voltage	Valve body	Solenoid	Connector
							
V45A517D-C313B ●	26mm	1.2	23.2-145	24 VDC	V45A517D-A1000 ●	VZC7L2C1-C313A ●	V10027-D00 ●
V45A517D-C318B ●	26mm	1.2	23.2-145	115V 50/60Hz	V45A517D-A1000 ●	VZC7L2C1-C318A ●	V10027-D00 ●
							
V45A517D-C313A ●	26mm	1.2	23.2-145	24 VDC	V45A517D-A1000 ●	VZC7L2C1-C313A ●	Not included
V45A517D-C318A ●	26mm	1.2	23.2-145	115V 50/60Hz	V45A517D-A1000 ●	VZC7L2C1-C318A ●	Not included


## 5/3 Valves – Double solenoid actuated valves with internal pilot supply and Softseal spool

Model No.	Size	Flow Cv	Operating pressure psi	Voltage	Valve body	Solenoid	Connector
							
V45A511D-C313B ●	26mm	1.2	29-145	24 VDC	V45A511D-A1000 ●	VZC7L2C1-C313A ●	V10027-D00 ●
V45A511D-C318B ●	26mm	1.2	29-145	115V 50/60 Hz	V45A511D-A1000 ●	VZC7L2C1-C318A ●	V10027-D00 ●

## 5/3 Valves – Double solenoid actuated valves with internal pilot supply and Softseal spool





Model No.	Size	Flow Cv	Operating pressure psi	Voltage	Valve body	Solenoid	Connector
							
V45A611D-C313B ●	26mm	1.1	29-145	24 VDC	V45A611D-A1000 ●	VZC7L2C1-C313A ●	V10027-D00 ●
V45A611D-C313A ●	26mm	1.1	29-145	24 VDC	V45A611D-A1000 ●	VZC7L2C1-C313A ●	Not included
V45A611D-C318B ●	26mm	1.1	29-145	115V 50/60Hz	V45A611D-A1000 ●	VZC7L2C1-C318A ●	V10027-D00 ●

## 5/2 Valves – Solenoid/spring actuated valves with internal pilot supply and Glandless spool






Model No.	Size	Flow Cv	Operating pressure psi	Voltage	Valve body	Solenoid	Connector
							
V44A517D-C313B ●	26mm	0.92	23.2-145	24 VDC	V44A517D-A1000 ●	VZC7L2C1-C313A ●	V10027-D00 ●
V44A517D-C318B ●	26mm	0.92	23.2-145	115V 50/60Hz	V44A517D-A1000 ●	VZC7L2C1-C318A ●	V10027-D00 ●

● In stock

◆ Ships within one week

5/2 Valves – Double solenoid actuated valves with internal pilot supply and Glandless spool	Model No.	Size	Flow Cv	Operating pressure psi	Voltage	Valve body	Solenoid	Connector
	V44A511D-C313B	26mm	0.92	29-145	24 VDC			
	V44A511D-C318B	26mm	0.92	29-145	115V 50/60Hz	V44A511D-A1000	VZC7L2C1-C318A	V10027-D00

**Bases and accessories**

Single pressure regulator plate	Regulator plate replacement gauge	Flow regulator plate	Blanking plate for unused station	Blanking disk to modular sub-base (qty 1)
				
V70527-KA1 (Port 1 reg.)	V70534-500	V70528-KA0 (Ports 3+5 reg.)	V70500-KA0	V70522-K00 (Ports 1,3,or 5)



**Additional connectors**

Part Number	Description
V10027-D00	Cable grip
V10013-D03	10 ft. molded cable, 0-240 VAC/ VDC
V10012-D13	Cable grip w/indicator light, 24 VAC/ VDC
V10012-D18	Cable grip w/indicator light, 120 VAC/ VDC
V10014-D03	10 ft. molded cable w/ indicator light, surge suppression, 24 VAC/ VDC
V10015-D03	10 ft. molded cable with indicator light, 110V/50 Hz-120V.60Hz





**Valve and Manifold Gaskets**

Part Number	Description
65.2519	V44/45 Valve to V44/45 Manifold Gasket
94.00031	V44/45 Manifold to V44/45 Manifold Gasket

**Single Station**

Model No.	Description	Thread	Tube Size	Straight Fitting	90° swivel elbow fitting	Muffler	
	V70501-RAB	Single station side ported with pilot ports – 1/4"	1/4" NPT	3/8"			
				C24250628	C24470628	MS002A	

**Modular sub-bases and end plates**

Model No.	Description	Thread	Tube Size	Straight Fitting	90° swivel elbow fitting	Muffler	
	V70525-2AF	Modular sub-base side ported (PIF) without pilot ports – 3/8"	1/4" NPT	3/8"	NA	NA	NA
	V70525-RAF	Modular sub-base side ported (PTF) without pilot ports – 1/4"	1/8" NPT	1/4"	C24250418	C24470418	MS001A
	V70526-RAF	Modular sub-base ported (NPTF) with pilot ports – 1/4"	1/4" NPT	3/8"	C24250628	C24470628	MS002A
	V70524-SAC	End plate kit. End ported – 3/8"	1/4" NPT	3/8"	C24250628	C24470628	MS002A

- In stock
- ◆ Ships within one week

**Specially coated glandless spool and sleeve for extremely long life**

**Available with integral flow regulators on ISO #1 and #2 sizes**

**Low power solenoids and manual override as standard**

**Wide range of sub-bases and accessories**

**Meet 5599/1 ISO Standard**



### Technical data

#### Medium:

Compressed air, 40 µm filtered, lubricated or non-lubricated

#### Operation:

Glandless spool valve, solenoid pilot or air pilot actuated

#### Maximum Pressure:

145 psig (10 bar) solenoid pilot actuated valves with internal pilot supply

232 psig (16 bar) solenoid pilot actuated valves with external pilot supply

232 psig (16 bar) air pilot actuated valves

#### Ambient temperature\*:

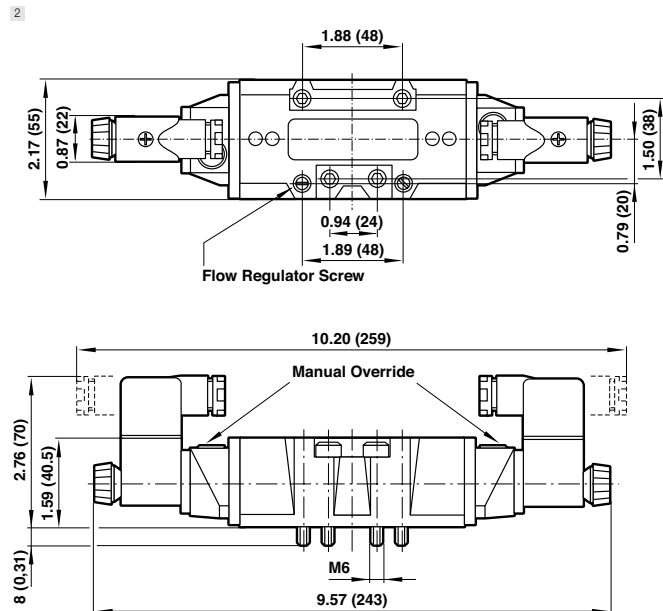
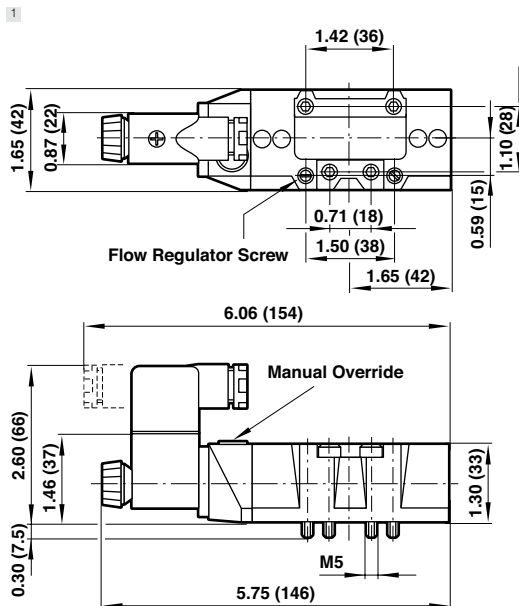
5°F to 122°F (-15°C to 50°C)

solenoid pilot actuated valves

5°F to 176°F (-15°C to 80°C) air pilot actuated valves

\*Consult our Technical Service for use below 36°F (2°C)

Dimensions in inches (mm)











● In stock









◆ Ships within one week

**Models – 5/2 valves**









**5/2 Valves – solenoid/air spring actuated with internal pilot supply**

Model No.	Size	Flow Cv	Integral flow control	Operating pressure psi	Voltage	Valve body	Coil	Connector	Drawing
									
<b>SXE9573-A80-00-13JB</b> ●	ISO 1	1.2	Yes	14.5 - 145	24 VDC	SXE9573-A80-00K ●	54469-02 ●	54934-01 ●	1
<b>SXE9573-A70-00-13JB</b> ●	ISO 1	1.2	No	14.5 - 145	24 VDC	SXE9573-A70-00K ●	54469-02 ●	54934-01 ●	1
<b>SXE9573-A80-00-18JB</b> ●	ISO 1	1.2	Yes	14.5 - 145	115V 50/60 Hz	SXE9573-A80-00K ●	54469-03 ●	54934-01 ●	1
<b>SXE9573-A70-00-18JB</b> ●	ISO 1	1.2	No	14.5 - 145	115V 50/60 Hz	SXE9573-A70-00K ●	54469-03 ●	54934-01 ●	1
									
<b>SXE9574-A80-00-13JB</b> ●	ISO 2	2.4	Yes	14.5 - 145	24 VDC	SXE9574-A80-00K ●	54469-02 ●	54934-01 ●	1
<b>SXE9574-A80-00-18JB</b> ●	ISO 2	2.4	Yes	14.5 - 145	115V 50/60 Hz	SXE9574-A80-00K ●	54469-03 ●	54934-01 ●	1

**5/2 Valves – Double solenoid actuated with internal pilot supply**

Model No.	Size	Flow Cv	Integral flow control	Operating pressure psi	Voltage	Valve body	Coil	Connector	Drawing
									
<b>SXE0573-A60-00-13JB</b> ●	ISO 1	1.2	Yes	29 - 145	24 VDC	SXE0573-A60-00K ●	54469-02 ●	54934-01 ●	1
<b>SXE0573-A50-00-13JB</b> ●	ISO 1	1.2	No	29 - 145	24 VDC	SXE0573-A50-00K ●	54469-02 ●	54934-01 ●	1
<b>SXE0573-A60-00-18JB</b> ●	ISO 1	1.2	Yes	29 - 145	115V 50/60 Hz	SXE0573-A60-00K ●	54469-03 ●	54934-01 ●	1
<b>SXE0573-A50-00-18JB</b> ●	ISO 1	1.2	No	29 - 145	115V 50/60 Hz	SXE0573-A50-00K ●	54469-03 ●	54934-01 ●	1
									
<b>SXE0574-A60-00-13JB</b> ●	ISO 2	2.4	Yes	29 - 145	24 VDC	SXE0574-A60-00K ●	54469-02 ●	54934-01 ●	1
<b>SXE0574-A60-00-18JB</b> ●	ISO 2	2.4	Yes	29 - 145	115V 50/60 Hz	SXE0574-A60-00K ●	54469-03 ●	54934-01 ●	1


**5/3 Valves – Double solenoid actuated with internal pilot supply**

Model No.	Size	Flow Cv	Integral flow control	Operating pressure psi	Voltage	Valve body	Coil	Connector	Drawing
									
<b>SXE9673-A60-00-13JB</b> ³ ●	ISO 1	1.2	Yes	29 - 145	24 VDC	SXE9673-A60-00K ●	54469-02 ●	54934-01 ●	2
<b>SXE9673-A60-00-18JB</b> ³ ●	ISO 1	1.2	Yes	29 - 145	115V 50/60 Hz	SXE9673-A60-00K ●	54469-03 ●	54934-01 ●	2
									
<b>SXE9674-A60-00-13JB</b> ³ ●	ISO 2	2.4	Yes	29 - 145	24 VDC	SXE9674-A60-00K ●	54469-02 ●	54934-01 ●	2
<b>SXE9674-A60-00-18JB</b> ³ ●	ISO 2	2.4	Yes	29 - 145	115V 50/60 Hz	SXE9674-A60-00K ●	54469-03 ●	54934-01 ●	2


3 All ports blocked

- In stock
- ◆ Ships within one week

**5/2 Valves – Pilot air/spring actuated**

Model No.	Size	Flow Cv	Integral flow control	Operating pressure psi
 SXP9573-170-00 ●	ISO 1	1.2	Yes	26"HG - 232

**5/2 Valves – Pilot air/air actuated**

Model No.	Size	Flow Cv	Integral flow control	Operating pressure psi
 SXP9573-170-00 ●	ISO 1	1.2	Yes	26"HG - 232













**VDMA 24 345 Base Range and Accessories**


239-251 ●	Blanking disc (dual supply) 1/4"	Size ISO 1
239-252 ●	Blanking disc (dual supply) 3/8"	Size ISO 2



RM1A-8B ●	Single pressure regulator, port 1 regulated 1/4"
RM2A-8B ●	Single pressure regulator, port 1 regulated 3/8"

**Modular sub-bases and end plates**

Model No.	Description	Size	Thread	Tube Size	Straight Fitting	90° swivel elbow fitting	Muffler
							
C/P19126 ●	Form 'A' single station sub-base, side ported – 1/4" ISO 1		1/8" NPT	1/4"	C24250418 ●	C24470418 ●	MS001A ●
C/P19132 ●	Form 'A' single station sub-base, side ported – 3/8" ISO 2		1/4" NPT	3/8"	C24250628 ●	C24470628 ●	MS002A ●
C/P19138 ●	Form 'A' single station sub-base, side ported – 1/2" ISO 3		1/2" NPT	1/2"	C24250748 ●	C24470748 ●	MS004A ●
							
239-238B ●	Form 'C' modular sub-base, bottom ported – 1/4"	ISO 1	1/4" NPT	3/8"	C24250628 ●	C24470628 ●	MS002A ●
							
239-289B ●	Form 'D' modular sub-base end plates – 1/4"	ISO 1	1/4" NPT	3/8"	C24250628 ●	C24470628 ●	MS002A ●

**Gaskets**

Part number	Function	Size
65.25057 ●	External Pilot Gasket	ISO Size 1
65.25178 ●	External Pilot Gasket	ISO Size 2
94.00224 ●	External Pilot Gasket	ISO Size 3

**Coils**

Standard (22 mm coil industrial standard)				
Model	Voltage	Coil code	Power inrush/hold	Coil retention nut
54469-01 ●	12 VDC	12J	2 W	59.05261 ●
54469-02 ●	24 VDC	13J	2 W	59.05261 ●
54469-03 ●	110/120 V 50/60 Hz	18J	4/2.5 VA	59.05261 ●
54469-08 ●	220/240 V 50/60 Hz	19J	6/5 VA	59.05261 ●

**Connectors**

Part number	Code
<b>3-Pin Industrial Standard 22mm</b>	
-	A = no connector
54934-01 ●	B = Cable grip 0-240 VAC/ VDC
54934-21 ●	C = 6 ft molded cable, 0-240 VAC/ VDC
54934-08 ●	H = Cable grip w/indicator light 24 VDC
54934-02 ●	J = Cable grip w/indicator light 120 VAC
54934-05 ●	Z = 1/2" Conduit 0-240 VAC/ VDC
54934-30 ●	5 = 6 ft molded cable w/indicator light, surge suppression, 24 VAC/ VDC
54934-35 ●	6 = 6 ft molded cable w/indicator light, 120 VAC

● In stock

◆ Ships within one week



# SWITCH TO IMI NORGREN WITH OUR **CONVERSION TOOL**

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**Long life****High flow rate****Low power consumption (2 W)****Technical data****Medium:**

Compressed air, filtered to 50 µm, lubricated or non-lubricated.

**Operation:** See tables

**Mounting:**

Individual or fixed length manifold

**Connection:** See tables

**Operating pressure:**

145 psi (10 bar)

**Flow direction:**

Internal pilot supply: fixed  
External pilot supply: optional

**Flow:** See tables

**Ambient temperature:**

14°F to 122°F (-10°C to 50°C)

Consult our Technical Service for use

below 36°F (2°C).

**Materials**

Housing and base plate:  
aluminum

Spool: stainless steel,

Piston, spacers and cover:





synthetic material

Static and dynamic seals: NBR




Screws: zinc plated

Springs: stainless steel





**Models – 3/2 Valves****Solenoid actuated/spring return, internal pilot, industrial standard 22mm coil, 24 VDC voltage**

Model No.	Port size NPT	Flow Cv	Operating pressure (psi)	Manual override	Drawing No.	Valve body	Coil	Connector
								
V60P417A-A213JB' ●	1/8	0.75	29 to 145	locking	1	V60P417A-A2000A ●	54469-02 ●	54934-01 ●
V60P417A-A313JB' ●	1/8	0.75	29 to 145	non-locking	1	V60P417A-A3000A ●	54469-02 ●	54934-01 ●
V61R417A-A213JB' ●	1/4	1.30	29 to 145	locking	1	V61R417A-A2000A ●	54469-02 ●	54934-01 ●
V61R417A-A313JB' ●	1/4	1.30	29 to 145	non-locking	1	V61R417A-A3000A ●	54469-02 ●	54934-01 ●
V62S417A-A313JB' ●	3/8	2.60	29 to 145	non-locking	1	V62S417A-A3000A ●	54469-02 ●	54934-01 ●




**Solenoid actuated/spring return, internal pilot, industrial standard 22mm coil, 24 VDC voltage, without connector**

Model No.	Port size NPT	Flow Cv	Operating pressure (psi)	Manual override	Drawing No.	Valve body	Coil	Connector
								
V60P417A-A213JA' ●	1/8	0.75	29 to 145	locking	1	V60P417A-A2000A ●	54469-02 ●	Not included
V60P417A-A313JA' ●	1/8	0.75	29 to 145	non-locking	1	V60P417A-A3000A ●	54469-02 ●	Not included
V61R417A-A213JA' ●	1/4	1.30	29 to 145	locking	1	V61R417A-A2000A ●	54469-02 ●	Not included
V61R417A-A313JA' ●	1/4	1.30	29 to 145	non-locking	1	V61R417A-A3000A ●	54469-02 ●	Not included
V62S417A-A313JA' ●	3/8	2.60	29 to 145	non-locking	1	V62S417A-A3000A ●	54469-02 ●	Not included

**Solenoid actuated/spring return, internal pilot, industrial standard 22mm coil, 120 VAC voltage**

Model No.	Port size NPT	Flow Cv	Operating pressure (psi)	Manual override	Drawing No.	Valve body	Coil	Connector
								
V60P417A-A218JB' ●	1/8	0.75	29 to 145	locking	1	V60P417A-A2000A ●	54469-03 ●	54934-01 ●
V60P417A-A318JB' ●	1/8	0.75	29 to 145	non-locking	1	V60P417A-A3000A ●	54469-03 ●	54934-01 ●
V61R417A-A218JB' ●	1/4	1.30	29 to 145	locking	1	V61R417A-A2000A ●	54469-03 ●	54934-01 ●
V61R417A-A318JB' ●	1/4	1.30	29 to 145	non-locking	1	V61R417A-A3000A ●	54469-03 ●	54934-01 ●
V62S417A-A318JB' ●	3/8	2.60	29 to 145	non-locking	1	V62S417A-A3000A ●	54469-03 ●	54934-01 ●

**Solenoid actuated/spring return, internal pilot, industrial standard 22mm coil, 120 VAC voltage, without connector**

Model No.	Port size NPT	Flow Cv	Operating pressure (psi)	Manual override	Drawing No.	Valve body	Coil	Connector
								
V60P417A-A218JA' ●	1/8	0.75	29 to 145	locking	1	V60P417A-A2000A ●	54469-03 ●	Not included
V60P417A-A318JA' ●	1/8	0.75	29 to 145	non-locking	1	V60P417A-A3000A ●	54469-03 ●	Not included
V61R417A-A218JA' ●	1/4	1.30	29 to 145	locking	1	V61R417A-A2000A ●	54469-03 ●	Not included
V61R417A-A318JA' ●	1/4	1.30	29 to 145	non-locking	1	V61R417A-A3000A ●	54469-03 ●	Not included
V62S417A-A318JA' ●	3/8	2.60	29 to 145	non-locking	1	V62S417A-A3000A ●	54469-03 ●	Not included





<sup>1</sup> Normally closed

● In stock




◆ Ships within one week

**Models – 5/2 Valves**





**Solenoid actuated/spring return, internal pilot, industrial standard 22mm coil, 24 VDC voltage**

Model No.	Port size NPT	Flow Cv	Operating pressure (psi)	Manual override	Drawing No.	Valve body	Coil	Connector
								
V60P517A-A213JB ●	1/8	0.75	29 to 145	locking	9	V60P517A-A2000A ●	54469-02 ●	54934-01 ●
V60P517A-A313JB ●	1/8	0.75	29 to 145	non-locking	9	V60P517A-A3000A ●	54469-02 ●	54934-01 ●
V61R517A-A313JB ●	1/4	1.30	29 to 145	non-locking	9	V61R517A-A3000A ●	54469-02 ●	54934-01 ●
V61R517A-A213JB ●	1/4	1.30	29 to 145	locking	9	V61R517A-A2000A ●	54469-02 ●	54934-01 ●
V62S517A-A313JB ●	3/8	2.60	29 to 145	non-locking	9	V62S517A-A3000A ●	54469-02 ●	54934-01 ●




**Solenoid actuated/spring return, internal pilot, industrial standard 22mm coil, 24 VDC voltage, without connector**

Model No.	Port size NPT	Flow Cv	Operating pressure (psi)	Manual override	Drawing No.	Valve body	Coil	Connector
								
V60P517A-A213JA ●	1/8	0.75	29 to 145	locking	9	V60P517A-A2000A ●	54469-02 ●	Not included
V60P517A-A313JA ●	1/8	0.75	29 to 145	non-locking	9	V60P517A-A3000A ●	54469-02 ●	Not included
V61R517A-A313JA ●	1/4	1.30	29 to 145	non-locking	9	V61R517A-A3000A ●	54469-02 ●	Not included
V61R517A-A213JA ●	1/4	1.30	29 to 145	locking	9	V61R517A-A2000A ●	54469-02 ●	Not included
V62S517A-A313JA ●	3/8	2.60	29 to 145	non-locking	9	V62S517A-A3000A ●	54469-02 ●	Not included

**Solenoid actuated/spring return, internal pilot, industrial standard 22mm coil, 120 VAC voltage**

Model No.	Port size NPT	Flow Cv	Operating pressure (psi)	Manual override	Drawing No.	Valve body	Coil	Connector
								
V60P517A-A218JB ●	1/8	0.75	29 to 145	locking	9	V60P517A-A2000A ●	54469-03 ●	54934-01 ●
V60P517A-A318JB ●	1/8	0.75	29 to 145	non-locking	9	V60P517A-A3000A ●	54469-03 ●	54934-01 ●
V61R517A-A318JB ●	1/4	1.30	29 to 145	non-locking	9	V61R517A-A3000A ●	54469-03 ●	54934-01 ●
V61R517A-A218JB ●	1/4	1.30	29 to 145	locking	9	V61R517A-A2000A ●	54469-03 ●	54934-01 ●
V62S517A-A318JB ●	3/8	2.60	29 to 145	non-locking	9	V62S517A-A3000A ●	54469-03 ●	54934-01 ●

**Solenoid actuated/spring return, internal pilot, industrial standard 22mm coil, 120 VAC voltage, without connector**

Model No.	Port size NPT	Flow Cv	Operating pressure (psi)	Manual override	Drawing No.	Valve body	Coil	Connector
								
V60P517A-A218JA ●	1/8	0.75	29 to 145	locking	9	V60P517A-A2000A ●	54469-03 ●	Not included
V60P517A-A318JA ●	1/8	0.75	29 to 145	non-locking	9	V60P517A-A3000A ●	54469-03 ●	Not included
V61R517A-A318JA ●	1/4	1.30	29 to 145	non-locking	9	V61R517A-A3000A ●	54469-03 ●	Not included
V61R517A-A218JA ●	1/4	1.30	29 to 145	locking	9	V61R517A-A2000A ●	54469-03 ●	Not included
V62S517A-A318JA ●	3/8	2.60	29 to 145	non-locking	9	V62S517A-A3000A ●	54469-03 ●	Not included

**Connectors**





Part number	Code
<b>3-Pin Industrial Standard 22mm</b>	
–	A = no connector
54934-01 ●	B = Cable grip 0-240 VAC/ VDC
54934-21 ●	C = 6 ft molded cable, 0-240 VAC/ VDC
54934-08 ●	H = Cable grip w/indicator light 24 VDC
54934-02 ●	J = Cable grip w/indicator light 120 VAC
54934-05 ●	Z = 1/2" Conduit 0-240 VAC/ VDC
54934-30 ●	5 = 6 ft molded cable w/indicator light, surge suppression, 24 VAC/ VDC
54934-35 ●	6 = 6 ft molded cable w/indicator light, 120 VAC

**Coils**




Standard (22 mm coil industrial standard)			
Model	Voltage	Coil code	Power inrush/hold
54469-01 ●	12 VDC	12J	2 W
54469-02 ●	24 VDC	13J	2 W
54469-03 ●	110/120 V 50/60 Hz	18J	4/2.5 VA
54469-08 ●	220/240 V 50/60 Hz	19J	6/5 VA

- In stock
- ◆ Ships within one week

**Models – 5/2 Valves (cont.)**
**Solenoid actuated/spring return, internal pilot, industrial standard 22mm coil, 12 VDC voltage**

Model No.	Port size NPT	Flow Cv	Operating pressure (psi)	Manual override	Drawing No.	Valve body	Coil	Connector
								
V60P517A-A212JB ●	1/8	0.75	29 to 145	Locking		V60P517A-A2000A ●	54469-01 ●	54934-01 ●
V60P517A-A312JB ●	1/8	0.75	29 to 145	Non-Locking		V60P517A-A3000A ●	54469-01 ●	54934-01 ●
V61R517A-A312JB ●	1/4	1.3	29 to 145	Non-Locking		V61R517A-A3000A ●	54469-01 ●	54934-01 ●
V61R517A-A212JB ●	1/4	1.3	29 to 145	Locking		V61R517A-A2000A ●	54469-01 ●	54934-01 ●

**Solenoid actuated/spring return, internal pilot, industrial standard 22mm coil, 12 VDC voltage, without connector**

Model No.	Port size NPT	Flow Cv	Operating pressure (psi)	Manual override	Drawing No.	Valve body	Coil	Connector
								
V60P517A-A212JA ●	1/8	0.75	29 to 145	Locking		V60P517A-A2000A ●	54469-01 ●	Not included
V60P517A-A312JA ●	1/8	0.75	29 to 145	Non-Locking		V60P517A-A3000A ●	54469-01 ●	Not included
V61R517A-A312JA ●	1/4	1.3	29 to 145	Non-Locking		V61R517A-A3000A ●	54469-01 ●	Not included
V61R517A-A212JA ●	1/4	1.3	29 to 145	Locking		V61R517A-A2000A ●	54469-01 ●	Not included

**Connectors**

Part number	Code
3-Pin Industrial Standard 22mm	
–	A = no connector
54934-01 ●	B = Cable grip 0-240 VAC/ VDC
54934-21 ●	C = 6 ft molded cable, 0-240 VAC/ VDC
54934-08 ●	H = Cable grip w/indicator light 24 VDC
54934-02 ●	J = Cable grip w/indicator light 120 VAC
54934-05 ●	Z = 1/2" Conduit 0-240 VAC/ VDC
54934-30 ●	5 = 6 ft molded cable w/indicator light, surge suppression, 24 VAC/ VDC
54934-35 ●	6 = 6 ft molded cable w/indicator light, 120 VAC





**Coils**

Standard (22 mm coil industrial standard)			
Model	Voltage	Coil code	Power inrush/hold
54469-01 ●	12 VDC	12J	2 W
54469-02 ●	24 VDC	13J	2 W
54469-03 ●	110/120 V 50/60 Hz	18J	4/2.5 VA
54469-08 ●	220/240 V 50/60 Hz	19J	6/5 VA




- In stock
- ◆ Ships within one week

Models - 5/2 Valves (cont.)





Solenoid actuated/solenoid return, internal pilot, industrial standard 22mm coil, 24 VDC voltage

Model No.	Port size NPT	Flow Cv	Operating pressure (psi)	Manual override	Drawing No.	Valve body	Coil	Connector
								
V60P511A-A213JB ●	1/8	0.75	29 to 145	locking	10	V60P511A-A2000A ●	54469-02 ●	54934-01 ●
V60P511A-A313JB ●	1/8	0.75	29 to 145	non-locking	10	V60P511A-A3000A ●	54469-02 ●	54934-01 ●
V61R511A-A213JB ●	1/4	1.30	29 to 145	locking	10	V61R511A-A2000A ●	54469-02 ●	54934-01 ●
V61R511A-A313JB ●	1/4	1.30	29 to 145	non-locking	10	V61R511A-A3000A ●	54469-02 ●	54934-01 ●
V62S511A-A313JB ●	3/8	2.50	29 to 145	non-locking	10	V62S511A-A3000A ●	54469-02 ●	54934-01 ●




Solenoid actuated/solenoid return, internal pilot, industrial standard 22mm coil, 24 VDC, without connector

Model No.	Port size NPT	Flow Cv	Operating pressure (psi)	Manual override	Drawing No.	Valve body	Coil
							
V60P511A-A213JA ●	1/8	0.75	29 to 145	locking	10	V60P511A-A2000A ●	54469-02 ●
V60P511A-A313JA ●	1/8	0.75	29 to 145	non-locking	10	V60P511A-A3000A ●	54469-02 ●
V61R511A-A213JA ●	1/4	1.30	29 to 145	locking	10	V61R511A-A2000A ●	54469-02 ●
V61R511A-A313JA ●	1/4	1.30	29 to 145	non-locking	10	V61R511A-A3000A ●	54469-02 ●
V62S511A-A313JA ●	3/8	2.50	29 to 145	non-locking	10	V62S511A-A3000A ●	54469-02 ●

Solenoid actuated/solenoid return, internal pilot, industrial standard 22mm coil, 120 VAC voltage

Model No.	Port size NPT	Flow Cv	Operating pressure (psi)	Manual override	Drawing No.	Valve body	Coil	Connector
								
V60P511A-A218JB ●	1/8	0.75	29 to 145	locking	10	V60P511A-A2000A ●	54469-03 ●	54934-01 ●
V60P511A-A318JB ●	1/8	0.75	29 to 145	non-locking	10	V60P511A-A3000A ●	54469-03 ●	54934-01 ●
V61R511A-A218JB ●	1/4	1.30	29 to 145	locking	10	V61R511A-A2000A ●	54469-03 ●	54934-01 ●
V61R511A-A318JB ●	1/4	1.30	29 to 145	non-locking	10	V61R511A-A3000A ●	54469-03 ●	54934-01 ●
V62S511A-A318JB ●	3/8	2.60	29 to 145	non-locking	10	V62S511A-A3000A ●	54469-03 ●	54934-01 ●

Solenoid actuated/solenoid return, internal pilot, industrial standard 22mm coil, 120 VAC voltage, without connector

Model No.	Port size NPT	Flow Cv	Operating pressure (psi)	Manual override	Drawing No.	Valve body	Coil
							
V60P511A-A218JA ●	1/8	0.75	29 to 145	locking	10	V60P511A-A2000A ●	54469-03 ●
V60P511A-A318JA ●	1/8	0.75	29 to 145	non-locking	10	V60P511A-A3000A ●	54469-03 ●
V61R511A-A218JA ●	1/4	1.30	29 to 145	locking	10	V61R511A-A2000A ●	54469-03 ●
V61R511A-A318JA ●	1/4	1.30	29 to 145	non-locking	10	V61R511A-A3000A ●	54469-03 ●
V62S511A-A318JA ●	3/8	2.60	29 to 145	non-locking	10	V62S511A-A3000A ●	54469-03 ●

Connectors





Part number	Code
3-Pin Industrial Standard 22mm	
-	A = no connector
54934-01 ●	B = Cable grip 0-240 VAC/ VDC
54934-21 ●	C = 6 ft molded cable, 0-240 VAC/ VDC
54934-08 ●	H = Cable grip w/indicator light 24 VDC
54934-02 ●	J = Cable grip w/indicator light 120 VAC
54934-05 ●	Z = 1/2" Conduit 0-240 VAC/ VDC
54934-30 ●	5 = 6 ft molded cable w/indicator light, surge suppression, 24 VAC/ VDC
54934-35 ●	6 = 6 ft molded cable w/indicator light, 120 VAC

Coils




Standard Model	(22 mm coil industrial standard Voltage)	Coil code	Power inrush/hold
54469-01 ●	12 VDC	12J	2 W
54469-02 ●	24 VDC	13J	2 W
54469-03 ●	110/120V 50/60 Hz	18J	4/2.5 VA
54469-08 ●	220/240V 50/60 Hz	19J	6/5 VA

- In stock
- ◆ Ships within one week





**Models - 5/3 Valves**
**Solenoid actuated/spring centered, internal pilot, industrial standard 22mm coil, 120 VAC voltage**

Model No.	Port size NPT	Flow Cv	Operating pressure (psi)	Manual override	Drawing No.	Valve body	Coil	Connector
								
V60P611A-A318JB <sup>3</sup> ●	1/8	0.75	29 to 145	non-locking	14	V60P611A-A3000A ●	54469-03 ●	54934-01 ●
V61R611A-A318JB <sup>3</sup> ●	1/4	1.30	29 to 145	non-locking	14	V61R611A-A3000A ●	54469-03 ●	54934-01 ●
V62S611A-A318JB <sup>3</sup> ●	3/8	2.60	29 to 145	non-locking	14	V62S611A-A3000A ●	54469-03 ●	54934-01 ●




**Solenoid actuated/spring centered, internal pilot, industrial standard 22mm coil, 120 VAC voltage, without connector**

Model No.	Port size NPT	Flow Cv	Operating pressure (psi)	Manual override	Drawing No.	Valve body	Coil
							
V60P611A-A318JA <sup>3</sup> ●	1/8	0.75	29 to 145	non-locking	14	V60P611A-A3000A ●	54469-03 ●
V61R611A-A318JA <sup>3</sup> ●	1/4	1.30	29 to 145	non-locking	14	V61R611A-A3000A ●	54469-03 ●
V62S611A-A318JA <sup>3</sup> ●	3/8	2.60	29 to 145	non-locking	14	V62S611A-A3000A ●	54469-03 ●

**Solenoid actuated/spring centered, internal pilot, industrial standard 22mm coil, 24 VDC voltage**

Model No.	Port size NPT	Flow Cv	Operating pressure (psi)	Manual override	Drawing No.	Valve body	Coil	Connector
								
V60P611A-A313JB <sup>3</sup> ●	1/8	0.75	29 to 145	non-locking	14	V60P611A-A3000A ●	54469-02 ●	54934-01 ●
V61R611A-A313JB <sup>3</sup> ●	1/4	1.30	29 to 145	non-locking	14	V61R611A-A3000A ●	54469-02 ●	54934-01 ●
V62S611A-A313JB <sup>3</sup> ●	3/8	2.60	29 to 145	non-locking	14	V62S611A-A3000A ●	54469-02 ●	54934-01 ●

**Solenoid actuated/spring centered, internal pilot, industrial standard 22mm coil, 24 VDC voltage, without connector**

Model No.	Port size NPT	Flow Cv	Operating pressure (psi)	Manual override	Drawing No.	Valve body	Coil
							
V60P611A-A313JA <sup>3</sup> ●	1/8	0.75	29 to 145	non-locking	14	V60P611A-A3000A ●	54469-02 ●
V61R611A-A313JA <sup>3</sup> ●	1/4	1.30	29 to 145	non-locking	14	V61R611A-A3000A ●	54469-02 ●
V62S611A-A313JA <sup>3</sup> ●	3/8	2.60	29 to 145	non-locking	14	V62S611A-A3000A ●	54469-02 ●

3 All ports blocked

**Connectors**

Part number	Code
<b>3-Pin Industrial Standard 22mm</b>	
-	A = no connector
54934-01 ●	B = Cable grip 0-240 VAC/ VDC
54934-21 ●	C = 6 ft molded cable, 0-240 VAC/ VDC
54934-08 ●	H = Cable grip w/indicator light 24 VDC
54934-02 ●	J = Cable grip w/indicator light 120 VAC
54934-05 ●	Z = 1/2" Conduit 0-240 VAC/ VDC
54934-30 ●	5 = 6 ft molded cable w/indicator light, surge suppression, 24 VAC/ VDC
54934-35 ●	6 = 6 ft molded cable w/indicator light, 120 VAC


**Coils**

Standard (22 mm coil industrial standard)			
Model	Voltage	Coil code	Power inrush/hold
54469-01 ●	12 VDC	12J	2 W
54469-02 ●	24 VDC	13J	2 W
54469-03 ●	110/120 V 50/60 Hz	18J	4/2.5 VA
54469-08 ●	220/240 V 50/60 Hz	19J	6/5 VA


- In stock
- ◆ Ships within one week

### Models - 3/2 Valves

#### Air actuated/air return


Model No.	Port size	Flow Cv	Pilot port inch	Operating pressure (psig)	Drawing No.
					
V60P4DDA-XP0200 ●	1/8	0.75	1/8	26" Hg to 145	16
V61R4DDA-XP0200 ●	1/4	1.30	1/8	26" Hg to 145	16

#### Air actuated/spring return


Model No.	Port size	Flow Cv	Pilot port inch	Operating pressure (psig)	Drawing No.
					
V60P4D7A-XP0900 ●	1/8	0.75	1/8	26" Hg to 145	16
V61R4D7A-XP0900 ●	1/4	1.30	1/8	26" Hg to 145	16
V62S4D7A-XP0900 ●	3/8	2.60	1/8	26" Hg to 145	16

### Model - 5/2 Valves

#### Air actuated/air return


Model No.	Port size	Flow Cv	Pilot port inch	Operating pressure (psig)	Drawing No.
					
V60P5DDA-XP0200 ●	1/8	0.75	1/8	26" Hg to 145	23
V61R5DDA-XP0200 ●	1/4	1.30	1/8	26" Hg to 145	23
V62S5DDA-XP0200 ●	3/8	2.60	1/8	26" Hg to 145	23

#### Air actuated/spring return

Model No.	Port size	Flow Cv	Pilot port inch	Operating pressure (psig)	Drawing No.
					
V60P5D7A-XP0900 ●	1/8	0.75	1/8	26" Hg to 145	22
V61R5D7A-XP0900 ●	1/4	1.30	1/8	26" Hg to 145	22
V62S5D7A-XP0900 ●	3/8	2.60	1/8	26" Hg to 145	15

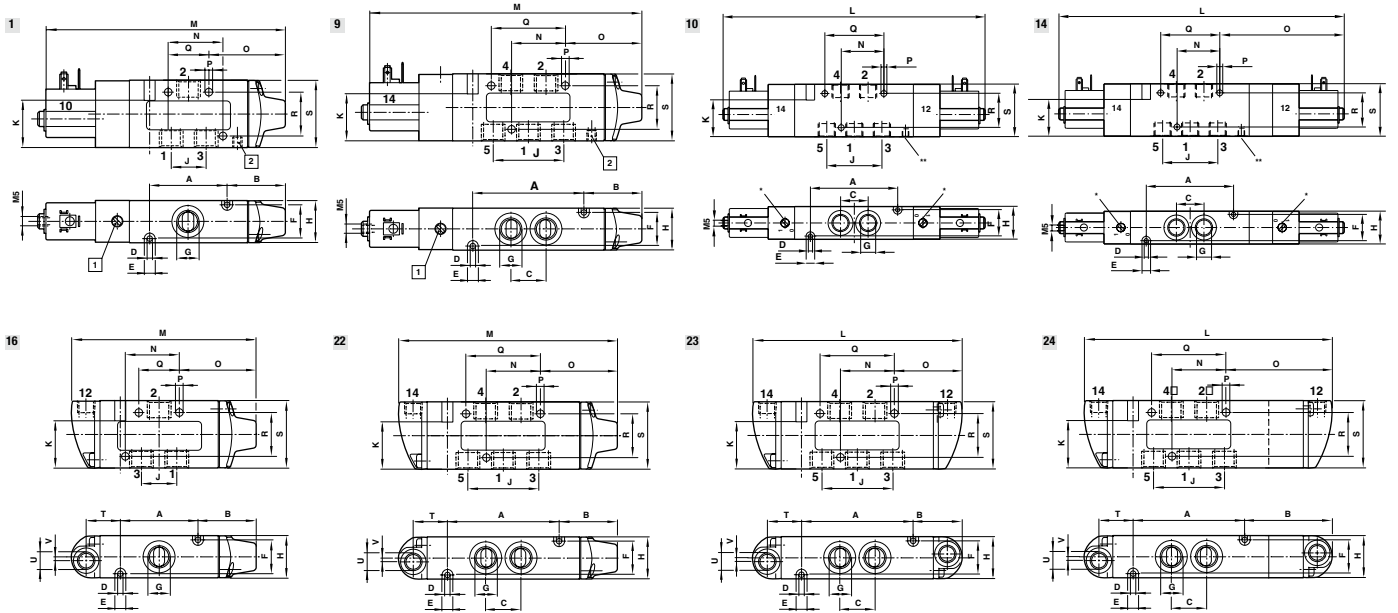
### Model - 5/3 Valves

#### Air actuated/spring centered

Model No.	Port size	Flow Cv	Pilot port inch	Operating pressure (psig)	Drawing No.
					
V60P6DDA-XP0200 <sup>3</sup> ●	1/8"	0.75	1/8	26" Hg to 145	24
V61R6DDA-XP0200 <sup>3</sup> ●	1/4"	0.95	1/8	26" Hg to 145	24
V62S6DDA-XP0200 <sup>3</sup> ●	3/8"	1.90	1/8	26" Hg to 145	24

3 All ports blocked

- In stock
- ◆ Ships within one week



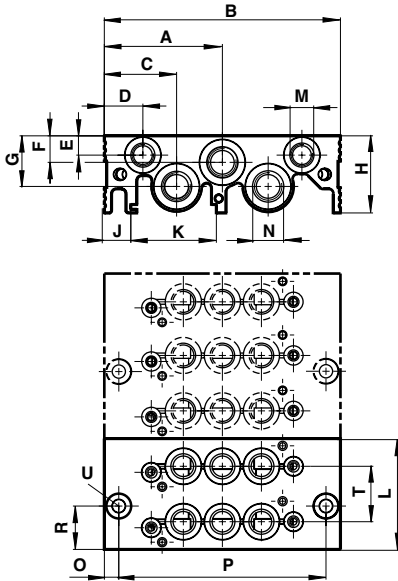
Series	Drawing	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	T	U
V60	1	1.38	0.67	-	0.13	0.26	0.67	1/8	0.87	0.64	1.10	-	4.49	0.98	0.98	0.18	0.71	1.02	1.38	-	-
V61	1	1.81	0.79	-	0.13	0.26	0.79	1/4	0.98	0.83	1.10	-	5.22	1.26	1.22	0.18	0.94	1.02	1.57	-	-
V62	1	2.13	0.83	-	0.18	0.31	1.10	3/8	1.34	0.96	1.73	-	5.71	0.47	1.42	0.18	1.02	1.42	2.17	-	-
V60	9	1.97	0.67	0.64	0.13	0.26	0.67	1/8	0.87	1.28	1.10	-	5.08	0.98	0.98	0.18	1.32	1.02	1.38	-	-
V61	9	2.60	0.79	0.83	0.13	0.26	0.79	1/4	0.98	1.65	1.10	-	6.00	1.26	1.22	0.18	1.73	1.02	1.57	-	-
V62	9	3.07	0.83	0.96	0.18	0.31	1.10	3/8	1.34	1.92	1.73	-	6.69	0.47	2.36	0.18	1.02	1.42	2.17	-	-
V60	10	1.97	-	0.64	0.13	0.26	0.67	1/8	0.87	1.28	1.10	6.89	-	0.98	-	0.18	1.32	1.02	1.38	-	-
V61	10	2.60	-	0.83	0.13	0.26	0.79	1/4	0.98	1.65	1.10	7.83	-	1.26	-	0.18	1.73	1.02	1.57	-	-
V62	10	3.07	-	0.96	0.18	0.31	1.10	3/8	1.34	1.92	1.73	8.58	-	0.47	-	0.18	1.02	1.42	2.17	-	-
V60	14	1.97	-	0.64	0.13	0.26	0.67	1/8	0.87	1.28	1.10	7.44	-	0.98	3.33	0.18	1.32	1.02	1.38	-	-
V61	14	2.60	-	0.83	0.13	0.26	0.79	1/4	0.98	1.65	1.10	8.54	-	1.26	-	0.18	1.73	1.02	1.57	-	-
V62	14	3.07	-	0.96	0.18	0.31	1.10	3/8	1.34	1.92	1.73	9.49	-	0.47	5.20	0.18	1.02	1.42	2.17	-	-
V60	16	1.38	1.08	-	0.13	0.26	0.67	1/8	0.87	0.64	1.10	-	3.54	0.98	1.41	0.18	0.71	1.02	1.38	0.73	1/8" NPT
V61	16	1.81	1.36	-	0.13	0.26	0.79	1/4	0.98	0.83	1.10	-	4.33	1.26	1.79	0.18	0.94	1.02	1.57	0.80	1/8" NPT
V62	16	2.13	1.69	-	0.18	0.31	1.10	3/8	1.34	0.96	1.73	-	4.88	0.47	2.28	0.18	1.02	1.42	2.17	0.83	1/8" NPT
V60	22	1.97	1.08	0.64	0.13	0.26	0.67	1/8	0.87	1.28	1.10	-	4.13	0.98	1.41	0.18	1.73	1.02	1.38	0.74	1/8" NPT
V61	22	2.60	1.36	0.83	0.13	0.26	0.79	1/4	0.98	1.65	1.10	-	5.12	1.26	1.79	0.18	1.02	1.02	1.57	0.80	1/8" NPT
V62	22	3.07	1.69	0.96	0.18	0.31	1.10	3/8	1.34	1.92	1.73	-	5.83	0.47	3.23	0.18	1.32	1.42	2.17	0.83	1/8" NPT
V60	23	1.97	1.07	0.64	0.13	0.26	0.67	1/8	0.87	1.28	1.10	4.11	-	0.98	1.40	0.18	1.73	1.02	1.38	0.74	1/8" NPT
V61	23	2.60	1.14	0.83	0.13	0.26	0.79	1/4	0.98	1.65	1.10	4.88	-	1.26	1.57	0.18	1.02	1.02	1.57	0.80	1/8" NPT
V62	23	3.07	1.06	0.96	0.18	0.31	1.10	3/8	1.34	1.92	1.73	5.20	-	0.47	2.60	0.18	1.32	1.42	2.17	0.83	1/8" NPT
V60	24	1.97	1.63	0.64	0.13	0.26	0.67	1/8	0.87	1.28	1.10	4.67	-	0.98	1.95	0.18	1.73	1.02	1.38	0.74	1/8" NPT
V61	24	2.60	2.05	0.83	0.13	0.26	0.79	1/4	0.98	1.65	1.10	5.79	-	1.26	2.48	0.18	1.02	1.02	1.57	0.80	1/8" NPT
V62	24	3.07	1.95	0.96	0.18	0.31	1.10	3/8	1.34	1.92	1.73	6.08	-	0.47	3.48	0.18	1.32	1.42	2.17	0.83	1/8" NPT

Dimensions in inches (mm)

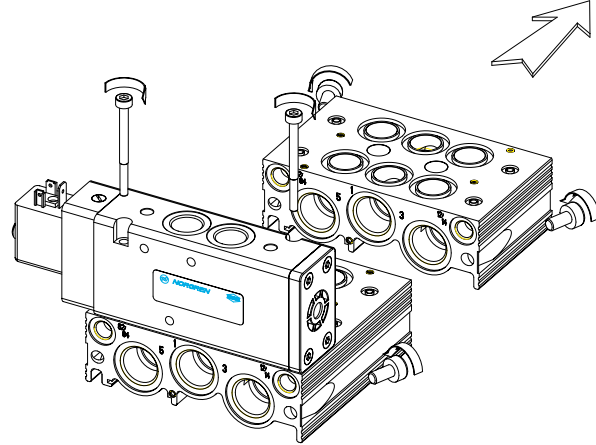
- In stock
- ◆ Ships within one week



**Drawing dimensions**  
**Manifold plate 2 stations + 3 stations**



**Extension possibilities with manifold plates**



VALVES

Type	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	T	U
V60 2 stations	1.93	3.86	1.18	0.63	0.31	0.43	0.83	1.26	0.43	1.40	1.81	1/8	1/4	0.24	3.39	1.10	0.91	10-32
V60 3 stations	1.93	3.86	1.18	0.63	0.31	0.43	0.83	1.26	0.43	1.40	2.72	1/8	1/4	0.24	3.39	1.10	0.91	10-32
V61 2 stations	2.05	4.09	1.02	0.35	0.31	0.51	0.83	1.30	0.39	1.40	2.05	1/8	3/8	1.57	0.94	1.02	1.02	10-32
V61 3 stations	2.05	4.09	1.02	0.35	0.31	0.51	0.79	1.30	0.39	1.40	3.07	1/8	3/8	1.57	0.94	2.05	1.02	10-32
V62 2 stations	2.36	4.72	1.14	0.35	0.31	0.59	0.87	1.50	0.51	1.40	2.76	1/8	1/2	1.73	1.26	1.38	1.38	M6
V62 3 stations	2.36	4.72	1.14	0.35	0.31	0.59	0.87	1.50	0.51	1.40	4.13	1/8	1/2	1.73	1.26	2.76	1.38	M6

Dimensions in inches (mm)

**Manifold Plates\***

Series	2 valve ports model number	3 valve ports Model number	Blanking plates	DIN rail kit
V60	2221032 ●	2221033 ●	0100561 ●	0101796 ●
V61	2221132 ●	2221133 ●	0100563 ●	0101796 ●
V62	2221232 ●	2221233 ●	0100565 ●	0101796 ●

\*For 5-ported valves only.

- In stock
- ◆ Ships within one week

**High flow in-line valves**  
**Compact and robust design**  
**Flexible in-line and manifold mounting options**



### Technical data

#### Medium:

Compressed air, filtered to 40 µm, lubricated or non-lubricated

#### Operation:

Softseal spool valve, solenoid and air pilot actuated

#### Mounting:

In-line or fixed length manifold

#### Maximum operating pressure:

116 psi (8 bar)

#### Ambient & medium

##### temperature\*:

23°F to 140°F (-5°C to 60°C)

pilot models

23°F to 122°F (-5°C to 50°C)

solenoid models

\* (Consult our Technical Service for use below 36°F (2°C))

#### Materials

Body/sub-base: die-cast aluminum alloy or aluminum alloy



Softseal spool: NBR/aluminum alloy

Mounting screws: Plated steel

Springs: stainless steel



### Model - 3/2 Valves

#### V50 – 1/8" NPT, air pilot valves

Model No.	Actuation	Flow Cv	Pilot port inch	Operating Pressure (psi)	Drawing No.
 V50P4DDA-XP0200 ●	Air/air	0.48	1/8	0 to 116	14
 V50P4D3A-XP0900' ●	Air/spring	0.48	1/8	0 to 116	12

### Model - 5/2 Valves

#### V50 – 1/8" NPT, air pilot valves

Model No.	Actuation	Flow Cv	Pilot port inch	Operating Pressure (psi)	Drawing No.
 V50P5DDA-XP0200 ●	Air/air	0.48	1/8	0 to 116	18
 V50P5D3A-XP0900 ●	Air/spring	0.48	1/8	0 to 116	16


1 Normally closed

● In stock

◆ Ships within one week



**Model - 5/3 Valves**

**V50 – 1/8" NPT, air pilot valves**

Model No.	Actuation	Flow Cv	Pilot port inch	Operating Pressure (psi)	Drawing No.
					
V50P6DDA-XP0200 <sup>3</sup> ●	Air/air	0.27	1/8	0 to 116	20


**Model - 3/2 Valves**

**V51 – 1/4" NPT, air pilot valves**

Model No.	Actuation	Flow Cv	Pilot port inch	Operating Pressure (psi)	Drawing No.
					
V51R4DDA-XP0200 ●	Pilot/pilot	1.02	1/8	0 to 116	14
					
V51R4D7A-XP0900 <sup>1</sup> ●	Pilot/spring	1.02	1/8	0 to 116	12


**Model - 5/2 Valves**

**V51 – 1/4" NPT, air pilot valves**

Model No.	Actuation	Flow Cv	Pilot port inch	Operating Pressure (psi)	Drawing No.
Image not available					
V51R5DDA-XP0200 ●	Air/air	1.02	1/8	0 to 116	18
					
V51R5D7A-XP0900 ●	Pilot/spring	1.02	1/8	0 to 116	16

**Model - 5/3 Valves**


**V51 – 1/4" NPT, air pilot valves**

Model No.	Actuation	Flow Cv	Pilot port inch	Operating Pressure (psi)	Drawing No.
					
V51R6DDA-XP0200 <sup>3</sup> ●	Air/air	0.75	1/8	0 to 116	20



1 Normally closed  
 3 All ports blocked

- In stock
- ◆ Ships within one week


**Model - 3/2 Valves**
**V52 – 3/8" NPT, air pilot valves**

Model No.	Actuation	Flow Cv	Pilot port inch	Operating Pressure (psi)	Drawing No.
 V52S4DDA-XP0200 ●	Pilot/Pilot	1.70	1/8	0 to 116	15
 V52S4D7A-XP0900 ●	Pilot/Spg	1.70	1/8	0 to 116	13

**Model - 5/2 Valves**
**V52 – 3/8" NPT, air pilot valves**

Model No.	Actuation	Flow Cv	Pilot port inch	Operating Pressure (psi)	Drawing No.
 V52S5DDA-XP0200 ●	Pilot/Pilot	1.70	1/8	0 to 116	19
 V52S5D7A-XP0900 ●	Pilot/Spg	1.70	1/8	0 to 116	17

**Model - 5/3 Valves**
**V52 – 3/8" NPT, air pilot valves**



Model No.	Actuation	Flow Cv	Pilot port inch	Operating Pressure (psi)	Drawing No.
 V52S6DDA-XP0200 <sup>3</sup> ●	Pilot/Pilot	1.19	1/8	0 to 116	22

- 1 Normally closed
- 2 Normally open
- 3 All ports blocked
- 4 Center open to exhaust

- In stock
- ◆ Ships within one week



**Model - 3/2 Valves**

**V53 – 1/2" NPT, air pilot valves**

Model No.	Actuation	Flow Cv	Pilot port inch	Operating Pressure (psi)	Drawing No.
 V53T4DDA-XP0200 ●	Pilot/Pilot	2.48	1/8	0 to 116	15
 V53T4D7A-XP0900' ●	Pilot/Spq	2.48	1/8	0 to 116	13


**Model - 5/2 Valves**

**V53 – 1/2" NPT, air pilot valves**

Model No.	Actuation	Flow Cv	Pilot port inch	Operating Pressure (psi)	Drawing No.
 V53T5DDA-XP0200 ●	Pilot/Pilot	2.48	1/8	0 to 116	19
 V53T5D7A-XP0900 ●	Pilot/Spq	2.48	1/8	0 to 116	17

**Model - 5/3 Valves**

**V53 – 1/2" NPT, air pilot valves**









Model No.	Actuation	Flow Cv	Pilot port inch	Operating Pressure (psi)	Drawing No.
 V53T6DDA-XP0200 <sup>3</sup> ●	Pilot/Pilot	1.91	1/8	0 to 116	23

- 1 Normally closed
- 2 Normally open
- 3 All ports blocked
- 4 Center open to exhaust

- In stock
- ◆ Ships within one week









## Model - 3/2 Valves

## V50 - 1/8" NPT, Internal pilot solenoid valves with locking overrides

Model No.	Actuation	Flow Cv	Operating pressure (psi)	Voltage	Valve body	Coil	Connector	Drawing No.
 V50P411A-A213AB ●	Sol/Sol	0.48	29 to 116	24 VDC	 V50P411A-A2000 ●	 V12958-A13 ●	 V10027-D00 ●	3
V50P411A-A218AB ●	Sol/Sol	0.48	29 to 116	110/120 VAC	V50P411A-A2000 ●	V12958-A18 ●	V10027-D00 ●	3
 V50P413A-A213AB ●	Sol/Air spg	0.48	29 to 116	24 VDC	 V50P413A-A2000 ●	 V12958-A13 ●	 V10027-D00 ●	1
V50P413A-A218AB ●	Sol/Air spg	0.48	29 to 116	110/120 VAC	V50P413A-A2000 ●	V12958-A18 ●	V10027-D00 ●	1





## Model - 5/2 Valves

## V50 - 1/8" NPT, Internal pilot solenoid valves with locking overrides

Model No.	Actuation	Flow Cv	Operating pressure (psi)	Voltage	Valve body	Coil	Connector	Drawing No.
 V50P511A-A213AB ●	Sol/Sol	0.48	29 to 116	24 VDC	 V50P511A-A2000 ●	 54469-02 ●	 54934-01 ●	8
V50P511A-A218AB ●	Sol/Sol	0.48	29 to 116	110/120 VAC	V50P511A-A2000 ●	54469-03 ●	54934-01 ●	8
 V50P513A-A213AB ●	Sol/Spring	0.48	29 to 116	24 VDC	 V50P513A-A2000 ●	 54469-02 ●	 54934-01 ●	6
V50P513A-A218AB ●	Sol/Spring	0.48	29 to 116	110/120 VAC	V50P513A-A2000 ●	54469-03 ●	54934-01 ●	6

## Model - 5/3 Valves

## V50 - 1/8" NPT, Internal pilot solenoid valves with locking overrides









Model No.	Actuation	Flow Cv	Operating pressure (psi)	Voltage	Valve body	Coil	Connector	Drawing No.
 V50P611A-A213AB ●	Sol/Sol	0.27	44 to 116	24 VDC	 V50P611A-A2000 ●	 V12958-A13 ●	 V10027-D00 ●	9
V50P611A-A218AB ●	Sol/Sol	0.27	44 to 116	110/120 VAC	V50P611A-A2000 ●	V12958-A18 ●	V10027-D00 ●	9

1 Normally closed  
3 All ports blocked

● In stock  
◆ Ships within one week









**Model - 3/2 Valves**

**V51 – 1/4" NPT, Internal pilot solenoid valves with locking overrides**

Model No.	Actuation	Flow Cv	Operating pressure (psi)	Voltage	Valve body	Coil	Connector	Drawing No.
								
V51R411A-A213JB ●	Sol/Sol	1.02	29 to 116	24 VDC	V51R411A-A2000 ●	54469-02 ●	54934-01 ●	4
V51R411A-A218JB ●	Sol/Sol	1.02	29 to 116	110/120 VAC	V51R411A-A2000 ●	54469-03 ●	54934-01 ●	4
								
V51R417A-A213JB' ●	Sol/Spring	1.02	29 to 116	24 VDC	V51R417A-A2000 ●	54469-02 ●	54934-01 ●	2
V51R417A-A218JB' ●	Sol/Spring	1.02	29 to 116	110/120 VAC	V51R417A-A2000 ●	54469-03 ●	54934-01 ●	2





**Model - 5/2 Valves**

**V51 – 1/4" NPT, Internal pilot solenoid valves with locking overrides**

Model No.	Actuation	Flow Cv	Operating pressure (psi)	Voltage	Valve body	Coil	Connector	Drawing No.
								
V51R511A-A213JB ●	Sol/Sol	1.02	29 to 116	24 VDC	V51R511A-A2000 ●	54469-02 ●	54934-01 ●	8
V51R511A-A218JB ●	Sol/Sol	1.02	29 to 116	110/120 VAC	V51R511A-A2000 ●	54469-03 ●	54934-01 ●	8
								
V51R517A-A213JB ●	Sol/Spring	1.02	29 to 116	24 VDC	V51R517A-A2000 ●	54469-02 ●	54934-01 ●	6
V51R517A-A218JB ●	Sol/Spring	1.02	29 to 116	110/120 VAC	V51R517A-A2000 ●	54469-03 ●	54934-01 ●	6

**Model - 5/3 Valves**

**V51 – 1/4" NPT, Internal pilot solenoid valves with locking overrides**









Model No.	Actuation	Flow Cv	Operating pressure (psi)	Voltage	Valve body	Coil	Connector	Drawing No.
								
V51R611A-A213JB <sup>3</sup> ●	Sol/Sol	0.75	44 to 116	24 VDC	V51R611AA2000 ●	54469-02 ●	54934-01 ●	10
V51R611A-A218JB <sup>3</sup> ●	Sol/Sol	0.75	44 to 116	110/120 VAC	V51R611AA2000 ●	54469-03 ●	54934-01 ●	10

1 Normally closed  
3 All ports blocked

- In stock
- ◆ Ships within one week









### Model - 3/2 Valves

**V52 – 3/8" NPT, Internal pilot solenoid valves with locking overrides**

Model No.	Actuation	Flow Cv	Operating pressure (psi)	Voltage	Body	Coil	Connector	Drawing No.
								
V52S411A-A213JB ●	Sol/Sol	1.7	29 to 116	24 VDC	V52S411A-A2000 ●	54469-02 ●	54934-01 ●	4
V52S411A-A218JB ●	Sol/Sol	1.7	29 to 116	110/120 VAC	V52S411A-A2000 ●	54469-03 ●	54934-01 ●	4
								
V52S417A-A213JB' ●	Sol/Spring	1.7	29 to 116	24 VDC	V52S417A-A2000 ●	54469-02 ●	54934-01 ●	2
V52S417A-A218JB' ●	Sol/Spring	1.7	29 to 116	110/120 VAC	V52S417A-A2000 ●	54469-03 ●	54934-01 ●	2





### Model - 5/2 Valves

**V52 – 3/8" NPT, Internal pilot solenoid valves with locking overrides**

Model No.	Actuation	Flow Cv	Operating pressure (psi)	Voltage	Body	Coil	Connector	Drawing No.
								
V52S511A-A213JB ●	Sol/Sol	1.7	29 to 116	24 VDC	V52S511A-A2000 ●	54469-02 ●	54934-01 ●	8
V52S511A-A218JB ●	Sol/Sol	1.7	29 to 116	110/120 VAC	V52S511A-A2000 ●	54469-03 ●	54934-01 ●	8
								
V52S517A-A213JB ●	Sol/Spring	1.7	29 to 116	24 VDC	V52S517A-A2000 ●	54469-02 ●	54934-01 ●	6
V52S517A-A218JB ●	Sol/Spring	1.7	29 to 116	110/120 VAC	V52S517A-A2000 ●	54469-03 ●	54934-01 ●	6

### Model - 5/3 Valves

**V52 – 3/8" NPT, Internal pilot solenoid valves with locking overrides**

Model No.	Actuation	Flow Cv	Operating pressure (psi)	Voltage	Body	Coil	Connector	Drawing No.
								
V52S611A-A213JB <sup>3</sup> ●	Sol/Sol	1.19	44 to 116	24 VDC	V52S611A-A2000 ●	54469-02 ●	54934-01 ●	11
V52S611A-A218JB <sup>3</sup> ●	Sol/Sol	1.19	44 to 116	110/120 VAC	V52S611A-A2000 ●	54469-03 ●	54934-01 ●	11









- 1 Normally closed  
 3 All ports blocked

- In stock  
 ◆ Ships within one week











**Model - 3/2 Valves**

**V53 – 1/2" NPT, Internal pilot solenoid valves with locking overrides**

Model No.	Actuation	Flow Cv	Operating pressure (psi)	Voltage	Body	Coil	Connector	Drawing No.
								
V53T411A-A213JB ●	Sol/Sol	2.48	29 to 116	24 VDC	V53T411A-A2000 ●	54469-02 ●	54934-01 ●	4
V53T411A-A218JB ●	Sol/Sol	2.48	29 to 116	110/120 VAC	V53T411A-A2000 ●	54469-03 ●	54934-01 ●	4
								
V53T417A-A213JB' ●	Sol/Spring	2.48	29 to 116	24 VDC	V53T417A-A2000 ●	54469-02 ●	54934-01 ●	2
V53T417A-A218JB' ●	Sol/Spring	2.48	29 to 116	110/120 VAC	V53T417A-A2000 ●	54469-03 ●	54934-01 ●	2





**Model - 5/2 Valves**

**V53 – 1/2" NPT, Internal pilot solenoid valves with locking overrides**

Model No.	Actuation	Flow Cv	Operating pressure (psi)	Voltage	Body	Coil	Connector	Drawing No.
								
V53T511A-A213JB ●	Sol/Sol	2.48	29 to 116	24 VDC	V53T511A-A2000 ●	54469-02 ●	54934-01 ●	8
V53T511A-A218JB ●	Sol/Sol	2.48	29 to 116	110/120 VAC	V53T511A-A2000 ●	54469-03 ●	54934-01 ●	8
								
V53T517A-A213JB ●	Sol/Spring	2.48	29 to 116	24 VDC	V53T517A-A2000 ●	54469-02 ●	54934-01 ●	6
V53T517A-A218JB ●	Sol/Spring	2.48	29 to 116	110/120 VAC	V53T517A-A2000 ●	54469-03 ●	54934-01 ●	6

**Model - 5/3 Valves**

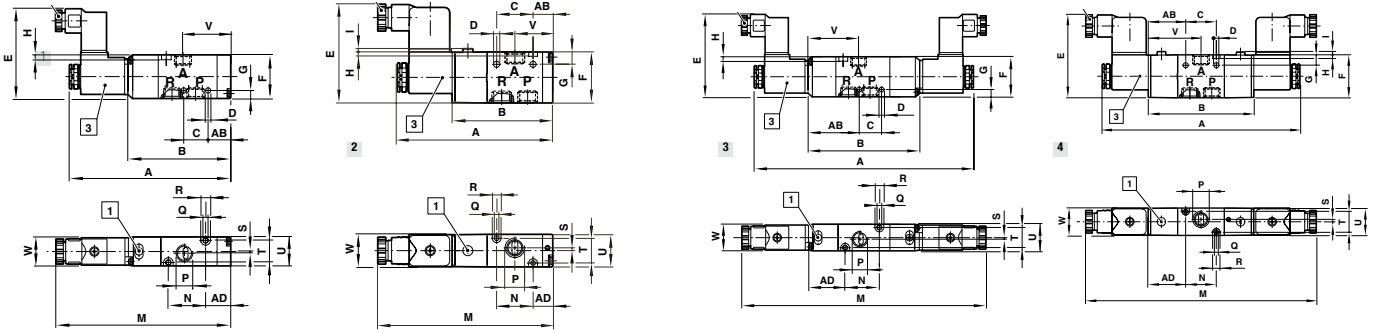
**V53 – 1/2" NPT, Internal pilot solenoid valves with locking overrides**

Model No.	Actuation	Flow Cv	Operating pressure (psi)	Voltage	Body	Coil	Connector	Drawing No.
								
V53T611A-A213JB³ ●	Sol/Sol	1.91	44 to 116	24 VDC	V53T611A-A2000 ●	54469-02 ●	54934-01 ●	11
V53T611A-A218JB³ ●	Sol/Sol	1.91	44 to 116	110/120 VAC	V53T611A-A2000 ●	54469-03 ●	54934-01 ●	11

1 Normally closed  
3 All ports blocked

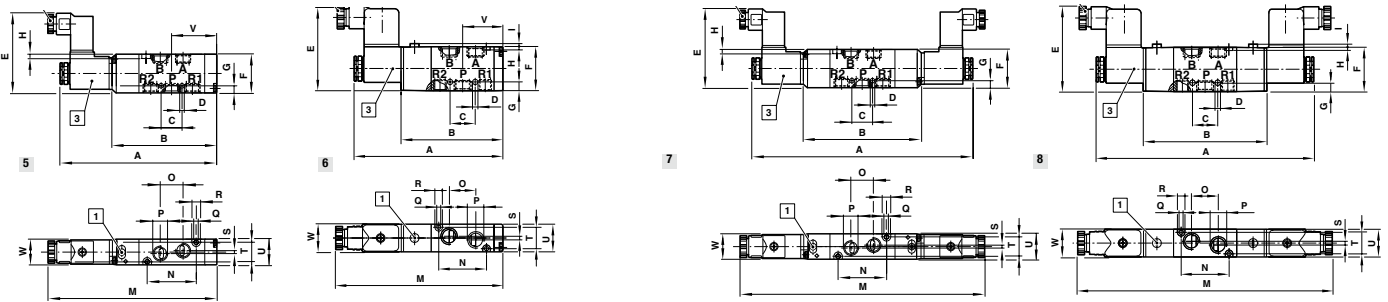
- In stock
- ◆ Ships within one week

Dimensions in inches (mm)



Series	Drawing	A	AB	AC	AD	B	C	D	E	F	G	H	I	J
V50	1	3.92	0.53	0.85	0.59	2.56	0.59	0.13	2.19	1.06	0.20	0.12	-	1/8"
V51	2	4.23	0.53	0.67	0.53	2.72	0.98	0.17	2.68	1.38	0.33	0.12	0.12	1/4"
V52	2	4.98	0.51	1.02	0.59	3.50	1.02	0.18	2.87	1.83	1.56	0.16	0.12	3/8"
V53	2	5.24	0.49	1.06	0.59	3.78	1.14	0.18	2.87	1.83	1.56	0.16	0.12	1/2"
Series	Drawing	L	M	N	P	Q	R	S	T	U	V	W	X	
V50	1	0.57	4.25	0.91	1/8"	0.13	0.24	0.04	0.51	0.71	1.16	0.63	0.02	
V51	2	0.71	4.72	0.98	1/4"	0.13	0.24	0.08	0.67	0.89	1.02	0.87	-	
V52	2	1.02	5.49	1.61	3/8"	0.18	0.31	-	0.91	1.18	1.61	0.87	-	
V53	2	1.14	5.75	1.89	1/2"	0.17	0.31	0.10	0.91	1.18	1.59	0.87	-	

Series	Drawing	A	AB	AC	AD	B	C	D	E	F	G	H	I	J
V50	3	5.69	1.44	1.14	1.06	3.01	0.59	0.13	2.19	1.06	0.20	0.12	-	1/8"
V51	4	5.75	1.20	1.34	1.20	3.39	0.98	0.17	2.68	1.38	0.33	0.12	0.12	1/4"
V52	4	7.17	1.22	1.73	1.30	4.21	1.02	0.18	2.87	1.83	1.56	0.16	0.12	3/8"
V53	4	7.40	1.20	1.77	1.30	4.49	1.14	0.18	2.87	1.83	1.56	0.16	0.12	1/2"
Series	Drawing	L	M	N	P	Q	R	S	T	U	V	W	X	
V50	3	0.58	6.46	0.92	1/8"	0.13	0.24	0.04	0.52	0.72	1.42	0.64	0.02	
V51	4	0.72	7.52	1.00	1/4"	0.13	0.24	0.08	0.68	0.90	1.72	0.88	-	
V52	4	1.04	8.32	1.64	3/8"	0.18	0.32	-	0.92	1.20	2.38	0.88	-	
V53	4	1.16	8.56	1.92	1/2"	0.17	0.32	0.10	0.92	1.20	2.34	0.88	-	

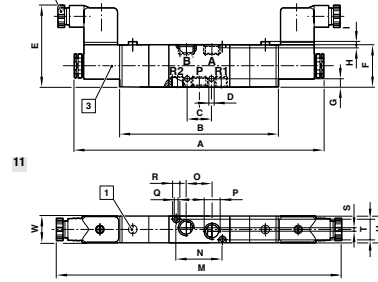
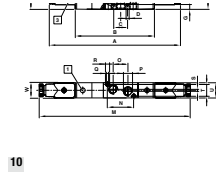
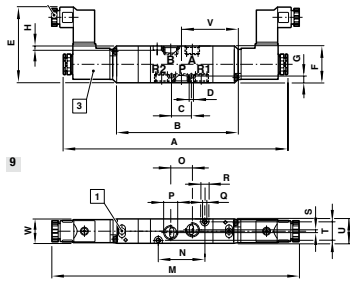


Series	Drawing	A	B	C	D	E	F	G	H	I	J	K	L
V50	5	4.25	2.99	0.57	0.13	2.17	1.06	0.20	0.12	-	1/8"	1/8"	1.14
V51	6	4.55	3.19	0.79	0.17	2.64	1.38	0.28	0.12	0.12	1/4"	1/8"	1.42
V52	6	5.59	4.25	1.02	0.22	2.83	1.83	0.18	0.16	0.12	3/8"	3/8"	2.05
V53	6	6.18	4.72	1.14	0.18	2.87	1.83	0.28	0.16	0.12	1/2"	1/2"	2.28
Series	Drawing	M	N	O	P	Q	R	S	T	U	V	W	
V50	5	4.72	1.34	0.63	1/8"	0.13	0.24	0.08	0.51	0.71	1.30	0.63	
V51	6	5.12	1.50	0.83	1/4"	0.13	0.24	0.12	0.67	0.89	1.26	0.87	
V52	6	6.14	0.51	1.18	3/8"	0.18	0.31	-	0.91	1.18	1.77	0.87	
V53	6	6.69	2.83	1.10	1/2"	0.17	0.31	0.18	0.91	1.18	2.01	0.87	

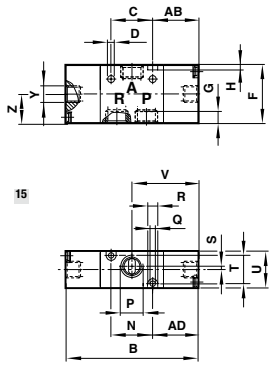
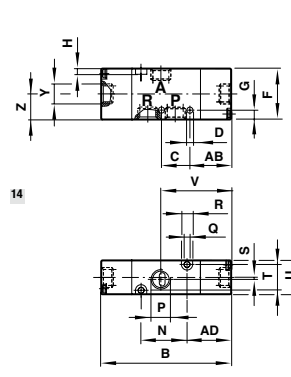
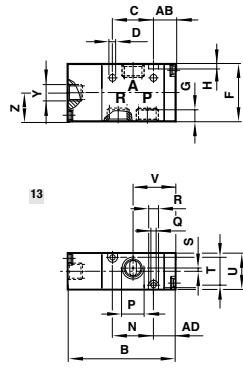
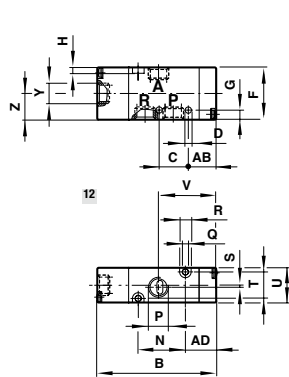
Series	Drawing	A	B	C	D	E	F	G	H	I	J	K	L
V50	7	6.06	3.43	0.57	0.13	2.17	1.06	0.20	0.12	-	1/8"	1/8"	1.14
V51	8	6.57	3.82	0.79	0.17	2.64	1.38	0.28	0.12	0.12	1/4"	1/8"	1.42
V52	8	7.64	4.96	1.02	0.22	2.83	1.83	0.18	0.16	0.12	3/8"	3/8"	2.05
V53	8	8.35	5.43	1.14	0.18	2.87	1.83	0.28	0.16	0.12	1/2"	1/2"	2.28
Series	Drawing	M	N	O	P	Q	R	S	T	U	W		
V50	7	6.89	1.34	0.63	1/8"	0.13	0.24	0.08	0.51	0.71	0.63		
V51	8	7.80	1.50	0.83	1/4"	0.13	0.24	0.12	0.67	0.89	0.87		
V52	8	8.74	0.51	1.18	3/8"	0.18	0.31	-	0.91	1.18	0.87		
V53	8	9.37	2.83	1.10	1/2"	0.17	0.31	0.18	0.91	1.18	0.87		

- In stock
- ◆ Ships within one week

Dimensions in inches (mm)



Series	Drawing	A	B	C	D	E	F	G	H	I	J	K	L
V50	9	6.42	3.78	0.57	0.13	2.17	1.06	0.20	0.12	-	1/8"	1/8"	1.14
V51	10	7.40	4.69	0.79	0.17	2.64	1.38	0.28	0.12	0.12	1/4"	1/8"	1.42
V52	11	9.61	7.07	1.02	0.22	2.83	1.83	0.18	0.16	0.12	3/8"	3/8"	2.05
V53	11	10.45	7.54	1.14	0.18	2.87	1.83	0.28	0.16	0.12	1/2"	1/2"	2.28
Series	Drawing	M	N	O	P	Q	R	S	T	U	V	W	
V50	9	7.24	1.34	0.63	1/8"	0.13	0.24	0.08	0.51	0.71	1.71	0.63	
V51	10	8.62	1.50	0.83	1/4"	0.13	0.24	0.12	0.67	0.89	1.91	0.87	
V52	11	10.83	0.51	1.18	3/8"	0.18	0.31	-	-	0.91	1.18	0.87	
V53	11	11.48	2.83	1.10	1/2"	0.17	0.31	0.18	0.91	1.18	-	0.87	

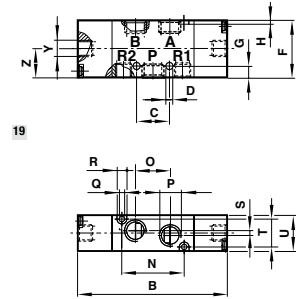
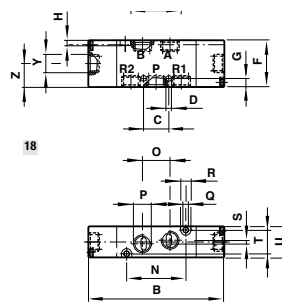
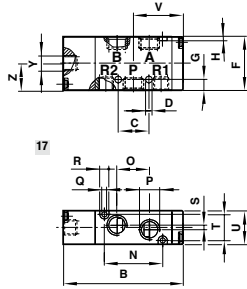
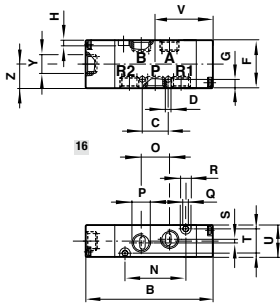


Series	Drawing	AB	AC	AD	B	C	D	F	G	H	J	L
V50	12	0.53	0.85	0.59	2.44	0.59	0.13	1.06	0.20	0.12	1/8"	0.57
V51	13	0.53	0.67	0.53	2.58	0.98	0.17	1.38	0.33	0.12	1/4"	0.71
V52	13	0.51	1.02	0.59	3.43	1.02	0.18	1.83	1.56	0.16	3/8"	1.02
V53	13	0.49	1.06	0.59	0.16	1.14	0.18	1.83	1.56	0.16	1/2"	1.14
Series	Drawing	N	P	Q	R	S	T	U	V	X	Y	Z
V50	12	0.91	1/8"	0.13	0.24	0.04	0.51	0.71	1.16	0.02	1/8"	0.53
V51	13	0.98	1/4"	0.13	0.24	0.08	0.67	0.89	1.02	-	1/8"	0.69
V52	13	1.61	3/8"	0.18	0.31	-	0.91	1.18	1.61	-	1/8"	0.67
V53	13	1.89	1/2"	0.17	0.31	0.10	0.91	1.18	1.59	-	1/8"	0.79

Series	Drawing	AB	AC	AD	B	C	D	F	G	H	J	L
V50	14	0.54	0.86	0.62	2.74	0.60	0.13	1.07	0.20	0.12	1/8"	0.58
V51	15	0.54	0.68	0.54	3.14	0.99	0.17	1.39	0.34	0.12	1/4"	0.72
V52	15	0.52	1.03	0.60	4.10	1.03	0.18	1.85	1.57	0.16	3/8"	1.03
V53	15	0.50	1.07	0.60	4.38	1.15	0.18	1.85	1.57	0.16	1/2"	1.15
Series	Drawing	N	P	Q	R	S	T	U	V	X	Y	Z
V50	14	0.91	1/8"	0.13	0.24	0.04	0.51	0.71	1.16	0.02	1/8"	0.53
V51	15	0.98	1/4"	0.13	0.24	0.08	0.67	0.89	1.02	-	1/8"	0.69
V52	15	1.61	3/8"	0.18	0.31	0.00	0.91	1.18	1.61	-	1/8"	0.67
V53	15	1.89	1/2"	0.17	0.31	0.10	0.91	1.18	1.59	-	1/8"	0.67

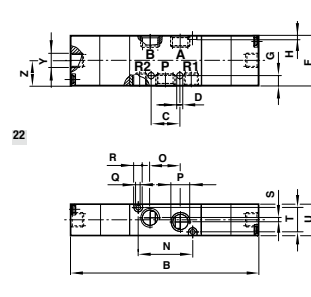
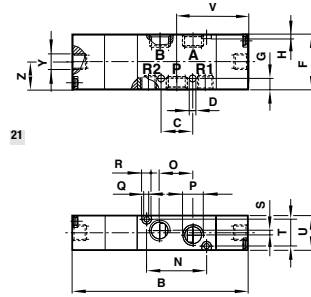
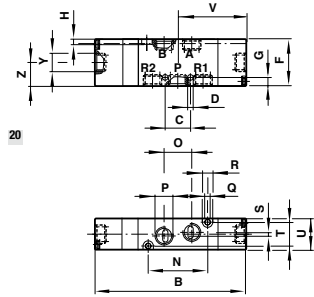
- In stock
- ◆ Ships within one week

Dimensions in inches (mm)



Series	Drawing	B	C	D	F	G	H	J	K	L	N
V50	16	2.87	0.57	0.13	1.06	0.20	0.12	1/8"	1/8"	1.14	1.34
V51	17	3.05	0.79	0.17	1.38	0.28	0.12	1/4"	1/8"	1.42	1.50
V52	17	4.17	1.02	0.22	1.83	0.18	0.16	3/8"	3/8"	2.05	0.51
V53	17	4.65	1.14	0.18	1.83	0.28	0.16	1/2"	1/2"	2.28	2.83
Series	Drawing	O	P	Q	R	S	T	U	V	Y	Z
V50	16	0.63	1/8"	0.13	0.24	0.08	0.51	0.71	1.30	1/8"	0.53
V51	17	0.83	1/4"	0.13	0.24	0.12	0.67	0.89	1.26	1/8"	0.69
V52	17	1.18	3/8"	0.18	0.31	-	0.91	1.18	1.77	1/8"	0.67
V53	17	1.10	1/2"	0.17	0.31	0.18	0.91	1.18	2.01	1/8"	0.79

Series	Drawing	B	C	D	F	G	H	J	K	L	N
V50	18	3.15	0.57	0.13	1.06	0.20	0.12	1/8"	1/8"	1.14	1.34
V51	19	3.58	0.79	0.17	1.38	0.28	0.12	1/4"	1/8"	1.42	1.50
V52	19	4.80	1.02	0.22	1.83	0.18	0.16	3/8"	3/8"	2.05	0.51
V53	19	5.28	1.14	0.18	1.83	0.28	0.16	1/2"	1/2"	2.28	2.83
Series	Drawing	O	P	Q	R	S	T	U	Y	Z	
V50	18	0.63	1/8"	0.13	0.24	0.08	0.51	0.71	1/8"	0.53	
V51	19	0.83	1/4"	0.13	0.24	0.12	0.67	0.89	1/8"	0.69	
V52	19	1.18	3/8"	0.18	0.31	-	0.91	1.18	1/8"	0.67	
V53	19	1.10	1/2"	0.17	0.31	0.18	0.91	1.18	1/8"	0.79	



Series	Drawing	B	C	D	F	G	H	J	K	L	N
V50	20	3.50	0.57	0.13	1.06	0.20	0.12	1/8"	1/8"	1.14	1.34
V51	21	4.41	0.79	0.17	1.38	0.28	0.12	1/4"	1/8"	1.42	1.50
V52	22	6.91	1.02	0.22	1.83	0.18	0.16	3/8"	3/8"	2.05	0.51
V53	22	7.38	1.14	0.18	1.83	0.28	0.16	1/2"	1/2"	2.28	2.83
Series	Drawing	O	P	Q	R	S	T	U	V	Y	Z
V50	20	0.63	1/8"	0.13	0.24	0.08	0.51	0.71	1.30	1/8"	0.53
V51	21	0.83	1/4"	0.13	0.24	0.12	0.67	0.89	1.30	1/8"	0.69
V52	22	1.18	3/8"	0.18	0.31	-	0.91	1.18	1.77	1/8"	0.67
V53	22	1.10	1/2"	0.17	0.31	0.18	0.91	1.18	2.01	1/8"	0.79

- In stock
- ◆ Ships within one week

**V50 Series replacement coils**

Model	Voltage	Power Inrush/hold
V12958-A12 ●	12 VDC	2.5 W
V12958-A13 ●	24 VDC	2.5 W
V12958-A18 ●	110/120 VAC 50/60 Hz	3.7/3.1 VA

**V51...V53 Series replacement coils**

22 mm coil industrial standard		
Model	Voltage	Inrush/hold
54469-01 ●	12 VDC	2 W
54469-02 ●	24 VDC	2W
54469-03 ●	110/120 V50/60Hz	4/2.5VA
54469-08 ●	220/240 V 50/60 Hz	6/5 VA

**V50 Series Replacement connectors**

Model	Description	Connector Type
V10027-D00 ●	0 to 240 VAC/ VDC, cable grip	DIN 43650 Table C
V10013-D03 ●	0 to 240 VAC/ VDC, 6 ft. molded cable	DIN 43650 Table C
V10012-D13 ●	12 to 24 VAC/ VDC w/indicator light	DIN 43650 Table C
V10012-D18 ●	120 VAC/ VDC w/indicator light	DIN 43650 Table C

**V51...V53 Series replacement connectors**

Part number	Description	Connector Type
3-Pin Industrial Standard 22mm		
54934-01 ●	Cable grip 0-240 VAC/ VDC	22 mm industrial standard
54934-21 ●	6 ft molded cable, 0-240 VAC/ VDC	22 mm industrial standard
54934-08 ●	Cable grip w/indicator light 24 VDC	22 mm industrial standard
54934-02 ●	Cable grip w/indicator light 120 VAC	22 mm industrial standard
54934-05 ●	1/2" Conduit 0-240 VAC/ VDC	22 mm industrial standard
54934-30 ●	6 ft molded cable w/indicator light, surge suppression, 24 VAC/ VDC	22 mm industrial standard
54934-35 ●	6 ft molded cable w/indicator light, 120 VAC	22 mm industrial standard

**Models - Manifolds and mounting kit**

Number of stations	Valve type	V50 model	Port size inch	V51 model	Port size inch	V52 model	Port size inch	V53 model	Port size inch
2	5/2, 5/3	 V50P502 ●	1/8	 V51R502 ●	1/4	 V52S502 ●	3/8	 V53T502 ●	1/2
3	5/2, 5/3	 V50P503 ●	1/8	 V51R503 ●	1/4	 V52S503 ●	3/8	 V53T503 ●	1/2
4	5/2, 5/3	 V50P504 ●	1/8	 V51R504 ●	1/4	 V52S504 ●	3/8	 V53T504 ●	1/2

**V50...V53 Series blanking plates\***

Model
V500551 ●
V510551 ●
V520551 ●
V530551 ●



\*For 5-ported valves only.

- In stock
- ◆ Ships within one week

**Long lasting spool design**

**High flow compact valves**

**Wide range of operators and voltages available**

**Three functional types: available in 3/2, 5/2, and 5/3 configurations**



### Technical data

#### Medium:

Filtered and lubricated or non-lubricated compressed air or vacuum.

#### Operation:

Spool valve solenoid pilot actuated.

#### Mounting:

Stacking – through holes on manifold base.  
Inline – through holes in valve body.

#### Port Size:

PTF – 1/4", 3/8", 1/2"  
ISO G – 1/4", 3/8"

#### Operating Pressure:

Maximum 150 psig (10.3 bar).

#### Operating Temperature:





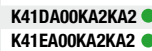


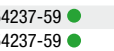
-20° to 120°F (-29° to 50°C)  
Consult Technical Service for use below 35°F (2°C).

#### Materials:








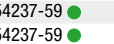
Body: Aluminum  
Spool: Anodized aluminum  
Solenoid Operator Base: plastic  
Plunger and spring: Stainless steel  
Elastomers: Nitrile and special nitrile-based low-friction elastomers.

### Model - 3/2 Valves

#### Air actuated/air return

Model No.	Flow Cv	Port size inch	Operating pressure psig	Body and spool	Operator	Repair kit
 K41DA00KA2KA2 ●	1.67	1/4	35 - 150	 K41DA00 ●	 KA2 ●	 54237-59 ●
 K41EA00KA2KA2 ●	1.67	3/8	35 - 150	 K41EA00 ●	 KA2 ●	 54237-59 ●

#### Air actuated/spring return





Model No.	Flow Cv	Port size inch	Operating pressure psig	Body and spool	Operator	Repair kit
 K41DA00KS6KA2 ●	1.67	1/4	45 - 150	 K41DA00 ●	 KA2 ●	 54237-59 ●
 K41EA00KS6KA2 ●	1.67	3/8	45 - 150	 K41EA00 ●	 KA2 ●	 54237-59 ●

● In stock

◆ Ships within one week





**Model - 5/2 Valves**

**Air actuated/spring return**

Model No.	Flow Cv	Port size inch	Operating pressure psig	Body and spool	Operator	Repair kit
						
K71DA00KS6KA2 ●	1.67	1/4	35 - 150	K71DA00 ●	KA2 ●	54237-56 ●
K71EA00KS6KA2 ●	1.67	3/8	35 - 150	K71EA00 ●	KA2 ●	54237-56 ●
K71EA01KS6KA1* ●	1.67	3/8	35 - 150	K71EA01 ●	KA1 ●	54237-56 ●





\* Low profile

**Air actuated/air return**

Model No.	Flow Cv	Port size inch	Operating pressure psig	Body and spool	Operator	Repair kit
						
K71DA00KA2KA2 ●	1.67	1/4	15 - 150	K71DA00 ●	KA2 ●	54237-56 ●
K71EA00KA2KA2 ●	1.67	3/8	15 - 150	K71EA00 ●	KA2 ●	54237-56 ●





**Model - 5/3 Valves**

**Air actuated/air return**

Model No.	Flow Cv	Port size inch	Operating pressure psig	Body and spool	Operator	Repair kit
						
K81DA00KACKAC3 ●	1.67	1/4	45 - 150	K81DA00 ●	KAC ●	54237-56 ●
K81EA00KACKAC3 ●	1.67	3/8	45 - 150	K81EA00 ●	KAC ●	54237-56 ●





**Model - 3/2 Valves**

**Solenoid actuated/spring return**

Model No.	Voltage	Connecton	Manual override	Flow Cv	Port size inch	Operating pressure psig	Body and spool	Operator	Repair kit
									
K41DA00KS6KV21W2 ●	24 VDC	Cable grip	Locking	1.67	1/4	35 - 150	K41EA00 ●	KV21W2 ●	54237-59 ●
K41EA00KS6KV21W2 ●	24 VDC	Cable grip	Locking	1.67	3/8	35 - 150	K41EA00 ●	KV21W2 ●	54237-59 ●
K41DA00KS6KV2 ●	120 VAC	Cable grip	Locking	1.67	1/4	35 - 150	K41DA00 ●	KV2 ●	54237-59 ●
K41EA00KS6KV2 ●	120 VAC	Cable grip	Locking	1.67	3/8	35 - 150	K41EA00 ●	KV2 ●	54237-59 ●

**Model - 5/2 Valves**





**Solenoid actuated/spring return**

Model No.	Voltage	Connecton	Manual override	Flow Cv	Port size inch	Operating pressure psig	Body and spool	Operator	Repair kit
									
K71DA00KS6KV21W2 ●	24 VDC	Cable grip	Locking	1.67	1/4	35 - 150	K71DA00 ●	KV21W2 ●	54237-56 ●
K71EA00KS6KV21W2 ●	24 VDC	Cable grip	Locking	1.67	3/8	35 - 150	K71EA00 ●	KV21W2 ●	54237-56 ●
K71FA00KS6KV21W2 ●	24 VDC	Cable grip	Locking	1.67	1/2	35 - 150	K71FA00 ●	KV21W2 ●	54237-56 ●
K71DA00KS6K32 ●	120 VAC	1/2" conduit	Locking	1.67	1/4	35 - 150	K71DA00 ●	K32 ●	54237-56 ●
K71DA00KS6KV2 ●	120 VAC	Cable grip	Locking	1.67	1/4	35 - 150	K71DA00 ●	KV2 ●	54237-56 ●
K71DA00KS6KV1 ●	120 VAC	Cable grip	Non-locking	1.67	1/4	35 - 150	K71DA00 ●	KV1 ●	54237-56 ●
K71EA00KS6K32 ●	120 VAC	1/2" conduit	Locking	1.67	3/8	35 - 150	K71EA00 ●	K32 ●	54237-56 ●
K71EA00KS6KV2 ●	120 VAC	Cable grip	Locking	1.67	3/8	35 - 150	K71EA00 ●	KV2 ●	54237-56 ●
K71EA00KS6KV1 ●	120 VAC	Cable grip	Non-locking	1.67	3/8	35 - 150	K71EA00 ●	KV1 ●	54237-56 ●
K71FA00KS6KV2 ●	120 VAC	Cable grip	Locking	1.67	1/2	35 - 150	K71FA00 ●	KV2 ●	54237-56 ●





3 All ports blocked

- In stock
- ◆ Ships within one week

**Model - 5/2 Valves**
**Solenoid actuated/solenoid return**









Model No.	Voltage	Connection	Manual override	Flow Cv	Port size inch	Operating pressure psig	Body and spool	Operator	Repair kit
									
K71DA00KV2KV22W2 ●	24 VDC	Cable grip	Locking	1.67	1/4	15 to150	K71DA00 ●	KV21W2 ●	54237-56 ●
K71EA00KV2KV22W2 ●	24 VDC	Cable grip	Locking	1.67	3/8	15 to150	K71EA00 ●	KV21W2 ●	54237-56 ●
K71DA00KV2KV2 ●	120 VAC	Cable grip	Locking	1.67	1/4	15 to150	K71DA00 ●	KV2 ●	54237-56 ●
K71EA00KV2KV2 ●	120 VAC	Cable grip	Locking	1.67	3/8	15 to150	K71EA00 ●	KV2 ●	54237-56 ●

**Model - 5/3 Valves**
**Solenoid actuates/spring return**

Model No.	Voltage	Connection	Manual override	Flow Cv	Port size inch	Operating pressure psig	Body and spool	Operator	Repair kit
									
K81DA00KV0KV0 ●	120 VAC	Cable grip	Locking	1.67	1/4	15 - 150	K81DA00 ●	KV0 ●	54237-56 ●
K81EA00KV0KV0 ●	120 VAC	Cable grip	Locking	1.67	3/8	15 - 150	K81EA00 ●	KV0 ●	54237-56 ●

3 All ports blocked

**Specials**
**Solenoid actuates/spring return**

Model No.	Function	Description	Flow Cv	Port size	Operating pressure psig	Body and spool	Operator	Repair kit
								
K910014 ●	5/2	Sol/Spring with Extended Manual Override 12 VDC Connector Down	1.67	3/8	35 - 150	K71EA00 ●	K910020 ●	54237-56 ●
								
K910019 ●	5/2	Sol/Spring with Extended Manual Override 12 VDC Connector Up	1.67	3/8	35 - 150	K71EA00 ●	K910020 ●	54237-56 ●

**Solenoid Coils**

Part number	Description
54452-07 ●	240V/60Hz-220V/50Hz, 7.5W
54452-01 ●	120V/60Hz-110V/50Hz, 7.5W
54452-02 ●	12 VDC, 7.5W
54452-03 ●	24 VDC, 6W
54452-05 ●	24 VAC

**Connectors**

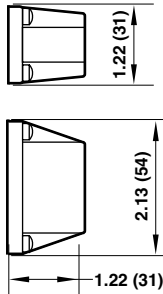
Part number	Code
<b>3-Pin Industrial Standard 22mm</b>	
-	A = no connector
54934-01 ●	B = Cable grip 0-240 VAC/ VDC
54934-21 ●	C = 6 ft molded cable, 0-240 VAC/ VDC
54934-08 ●	H = Cable grip w/indicator light 24 VDC
54934-02 ●	J = Cable grip w/indicator light 120 VAC
54934-05 ●	Z = 1/2" Conduit 0-240 VAC/ VDC
54934-30 ●	5 = 6 ft molded cable w/indicator light, surge sup pression, 24 VAC/ VDC
54934-35 ●	6 = 6 ft molded cable w/indicator light, 120 VAC

- In stock
- ◆ Ships within one week

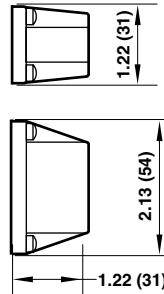


Dimensions in inches (mm)

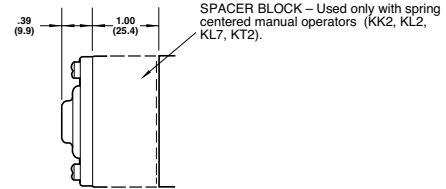
**KS1 Spring Return & End Cap**



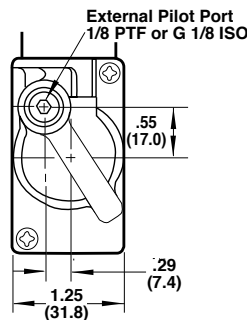
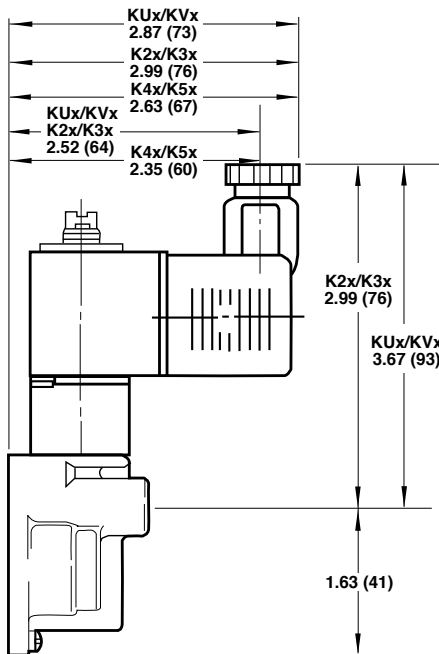
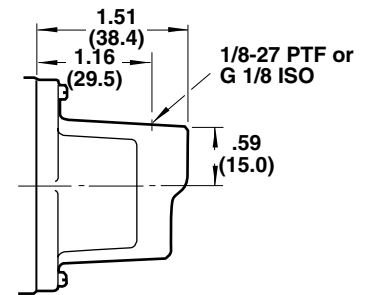
**KS6 Spring Return**



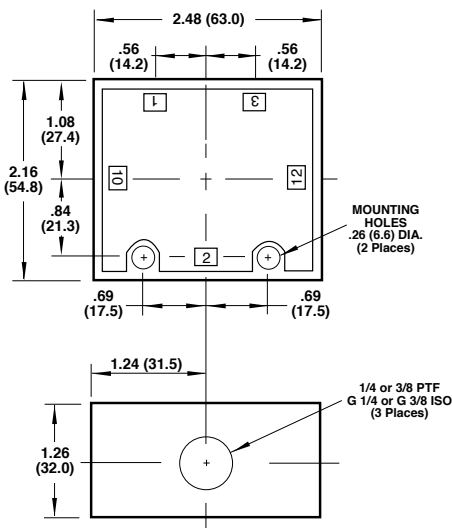
**KC0 End Cap**



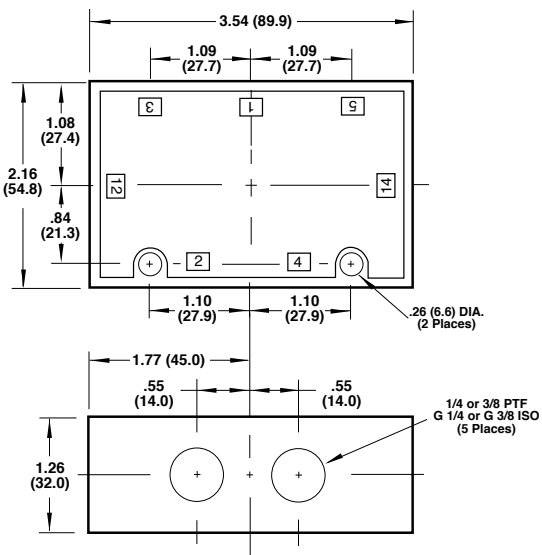
**KA2**



**3-WAY - 1/4" & 3/8" PORTS  
K41**



**4-WAY - 1/4" & 3/8" PORTS  
K71 or K81**



- In stock
- ◆ Ships within one week

Long lasting spool design  
High flow compact valves  
Wide range of operators available  
Two functional types: available in 5/2, and 5/3 configurations

### Technical data

#### Medium:

Filtered, lubricated or non-lubricated, compressed air or Vacuum

#### Operation:

Spool valve air pilot actuated

#### Operating Pressure:

Maximum 150 psig (10.3 bar).

#### Operating Temperature

Solenoid Operated Valves:  
-20° to 120°F (-29° to 50°C)



#### Air Operated Valves:

-20° to 160°F (-29° to 71°C)



\*Consult our Technical Service for use below 36°F (2°C)



### Models – 5/2 Air/Spring

Part Number	Function	Actuation	Port size NPT	Flow Cv	Operating pressure PSI	Repair kit
						
MN01CGA33A000 ●	5/2	Air/Spring	1/2	5.0	40-150	54677-60 ●
MN01CGA73A000 ●	5/2	Air/ Air Ass't Spring	1/2	5.0	40-150	54677-60 ●
MN01CHA73A000 ●	5/2	Air/ Air Ass't Spring	1/2	5.0	40-150	54677-60 ●

### Models – 5/2 Air/Air

Part Number	Function	Actuation	Port size NPT	Flow Cv	Operating pressure PSI	Repair kit
						
MN01CGA23A000 ●	5/2	Air/air	1/2	5.0	30 - 150	54677-60 ●
MN01CHA23A000 ●	5/2	Air/air	3/4	5.0	30 - 150	54677-60 ●

### Models – 5/3 Air/Air





Part Number	Function	Actuation	Port size NPT	Flow Cv	Operating pressure PSI	Repair kit
						
MN03CGA23F000 ●	5/3 <sup>3</sup>	Air/air	1/2	5.0	20 - 150	54677-61 ●
MN03CHA23F000 ●	5/3 <sup>3</sup>	Air/air	3/4	5.0	20 - 150	54677-61 ●

3 All ports blocked





● In stock

◆ Ships within one week




**Models – 5/2 Solenoid/Spring**

Part Number	Actuation	Function	Override	Port size NPT	Flow Cv	Operating press. PSI	Coil	Connector	Repair kit
									
MN01CGA35AJJA ●	5/2	Solenoid / spring	Non-locking	1/2	5.0	40-150	54469-03 ●	54934-01 ●	54677-60 ●
MN01CGA75AJJA ●	5/2	Solenoid / air assisted spring	Non-locking	1/2	5.0	40-150	54469-03 ●	54934-01 ●	54677-60 ●
MN01CGA75AJPA ●	5/2	Solenoid / air assisted spring	Non-locking	1/2	5.0	40-150	54469-02 ●	54934-01 ●	54677-60 ●
MN01CHA75AJJA ●	5/2	Solenoid / air assisted spring	Non-locking	3/4	5.0	40-150	54469-02 ●	54934-01 ●	54677-60 ●

**Models – 5/2 Solenoid/Solenoid**

Part Number	Actuation	Function	Override	Port size NPT	Flow Cv	Operating press. PSI	Coil	Connector	Repair kit
									
MN01CGA25AJJA ●	5/2	Solenoid / Solenoid	Non-locking	1/2	5.0	30 - 150	54469-03 ●	54934-01 ●	54677-60 ●
MN01CHA25AJJA ●	5/2	Solenoid / Solenoid	Non-locking	3/4	5.0	30 - 150	54469-03 ●	54934-01 ●	54677-60 ●

**Models – 5/3 Solenoid/Solenoid**

Part Number	Actuation	Function	Override	Port size NPT	Flow Cv	Operating press. PSI	Coil	Connector	Repair kit
									
MN03CGA25FJJA ●	5/3 <sup>3</sup>	Solenoid / Solenoid	Non-locking	1/2	5.0	20 - 150	54469-03 ●	54934-01 ●	54677-61 ●
MN03CHA25FJJA ●	5/3 <sup>3</sup>	Solenoid / Solenoid	Non-locking	3/4	5.0	20 - 150	54469-03 ●	54934-01 ●	54677-61 ●

3 All ports blocked

- In stock
- ◆ Ships within one week

**Durable, robust construction**

1/4" to 1-1/2" PTF threads

Available in 2/2, 3/2 and 4/2 configurations

**Technical data****Medium:**

Filtered and lubricated or non-lubricated compressed air or vacuum.

**Operation:**

Poppet valve solenoid or air pilot actuated.

**Mounting:**

Through-holes in valve body and subbase.

**Operating Temperature:**




-20°F to 120°F\* (-29°C to 49°C)

\* Consult Technical Service for use below 34°F (+2°C).




**Materials:**

Body: Aluminum alloy body  
 Operators: Zinc or aluminum solenoid pilot operators, stainless steel or steel, reinforced polyester, brass or polyurethane, acetal, copper wire.  
 Elastomers: Nitrile rubber seals  
 Internals: Aluminum




**2/2 Single air pilot operated spring return inline valves**

Model	Basic size inch	Port size PTF	Flow Cv	Operating pressure (psi)	Pilot pressure <sup>2</sup> (psi)	Body and spool	Operator
							
A1012H-A1' ●	1/2	1/4	2.1	0 - 300	30 - 300	A1012H ●	-A1 ●
A1013H-A1' ●	1/2	3/8	3.4	0 - 300	30 - 300	A1013H ●	-A1 ●
A1014H-A1' ●	1/2	1/2	5.3	0 - 300	30 - 300	A1014H ●	-A1 ●
A1015H-A1' ●	1/2	3/4	6.5	0 - 300	30 - 300	A1015H ●	-A1 ●
A1026H-A1' ●	1	1	10.7	0 - 300	30 - 300	A1026H ●	-A1 ●
A1027H-A1' ●	1	1-1/4	13.5	0 - 300	30 - 300	A1027H ●	-A1 ●
A1038H-A1' ●	2	1-1/2	34	0 - 300	30 - 300	A1038H ●	-A1 ●

**3/2 Air/spring normally closed inline valves**

Model	Basic size inch	Port size PTF	Flow Cv	Operating pressure (psi)	Pilot pressure <sup>2</sup> (psi)	Body and spool	Operator
							
D1023H-A1' ●	1/2	3/8	1.7 to 1.8	0 - 300	30 - 300	D1023H ●	-A1 ●
D1024H-A1' ●	1/2	1/2	4.6 to 5.8	0 - 300	30 - 300	D1024H ●	-A1 ●
D1025H-A1' ●	1/2	3/4	5.4 to 6.2	0 - 300	30 - 300	D1025H ●	-A1 ●
D1036H-A1' ●	1	1	13.2 to 14.6	0 - 300	30 - 300	D1036H ●	-A1 ●
D1047H-A1' ●	1	1-1/4	16.6 to 18.4	0 - 300	30 - 300	D1047H ●	-A1 ●

**3/2 Air/spring multi-directional inline valves**

Model	Basic size inch	Port size PTF	Flow Cv	Operating pressure (psi)	Pilot pressure <sup>2</sup> (psi)	Body and spool	Operator
							
C1014H-A1' ●	1/2	1/2	5.7 to 3.4	0 - 300	30 - 300	C1014H ●	-A1 ●
C1025H-A1' ●	1/2	3/4	6.1 to 4.0	0 - 300	30 - 300	C1025H ●	-A1 ●
C1036H-A1' ●	1	1	17.7 to 13.2	0 - 300	30 - 300	C1036H ●	-A1 ●
C1037H-A1' ●	1	1-1/4	18.3 to 14	0 - 300	30 - 300	C1037H ●	-A1 ●
C1048H-A1' ●	2	1-1/2	44.8 to 33.1	0 - 300	30 - 300	C1048H ●	-A1 ●




1 Normally closed

2 Pilot pressure must be equal to or greater than the operating pressure




● In stock

◆ Ships within one week




4/2 Air/spring

Model	Basic size inch	Port size PTF	Flow Cv	Operating pressure (psi)	Pilot pressure <sup>2</sup> (psi)	Body and spool	Operator
							
F1024H-A1 ●	1/2	1/2	4.0 to 5.5	0 - 300	30 - 300	F1024H ●	-A1 ●
F1025H-A1 ●	1/2	3/4	4.8 to 5.8	0 - 300	30 - 300	F1025H ●	-A1 ●
F1036H-A1 ●	1	1	11.3 14.3	0 - 300	30 - 300	F1036H ●	-A1 ●
F1037H-A1 ●	1	1-1/4	11.6 to 14.5	0 - 300	30 - 300	F1037H ●	-A1 ●




2/2 Solenoid/spring (110/120 VAC)

Model	Basic size inch	Port size PTF	Flow Cv	Operating pressure (psi)	Pilot pressure <sup>2</sup> (psi)	Body and spool	Operator
							
A1014C-CY <sup>1</sup> ●	1/2	1/2	5.3	30 - 150	30 - 150	A1014C ●	-CY ●
A1015C-CY <sup>1</sup> ●	1/2	3/4	6.5	30 - 150	30 - 150	A1015C ●	-CY ●
A1026C-CC <sup>1</sup> ●	1	1	10.7	30 - 150	30 - 150	A1026C ●	-CC ●

3/2 Solenoid/spring (110/120 VAC)

Model	Basic size inch	Port size PTF	Flow Cv	Operating pressure (psi)	Pilot pressure <sup>2</sup> (psi)	Body and spool	Operator
							
D1023C-CY <sup>1</sup> ●	1/2	3/8	1.7 to 1.8	30 - 150	30 - 150	D1023C ●	-CY ●
D1024C-CY <sup>1</sup> ●	1/2	1/2	4.6 to 5.8	30 - 150	30 - 150	D1024C ●	-CY ●
D1025C-CC <sup>1</sup> ●	1/2	3/4	5.4 to 6.2	30 - 150	30 - 150	D1025C ●	-CC ●
D1036C-CC <sup>1</sup> ●	1	1	13.2 to 14.6	30 - 150	30 - 150	D1036C ●	-CC ●
C1036C-CC <sup>1</sup> ●	1	1	17.7 to 13.2	30 - 150	30 - 150	C1036C ●	-CC ●

4/2 Solenoid/spring (110/120 VAC)

Model	Basic size inch	Port size PTF	Flow Cv	Operating pressure (psi)	Pilot pressure <sup>2</sup> (psi)	Body and spool	Operator
							
F1024C-CC ●	1/2	1/2	4.0 to 5.5	30 - 150	30 - 150	F1024C ●	-CC ●
F1025C-CC ●	1/2	3/4	4.8 to 5.8	30 - 150	30 - 150	F1025C ●	-CC ●
F1036C-CC ●	1	1	11.3 14.3	30 - 150	30 - 150	F1036C ●	-CC ●
F1037C-CC ●	1	1-1/4	11.6 to 14.5	30 - 150	30 - 150	F1037C ●	-CC ●

1 Normally closed

2 Pilot pressure must be equal to or greater than the operating pressure

Operators



-A1  
Air



-CC  
30 mm coil, DIN  
43650

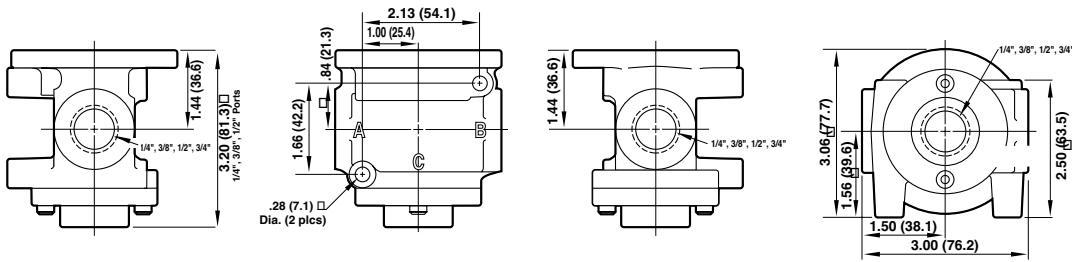


-CY  
22 mm  
Industrial Standard

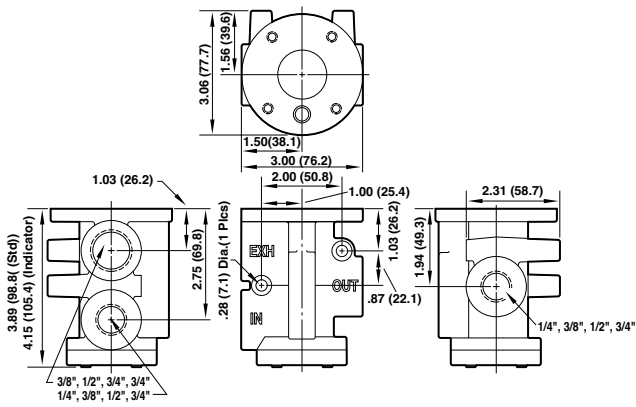
- In stock
- ◆ Ships within one week

Dimensions in inches (mm)

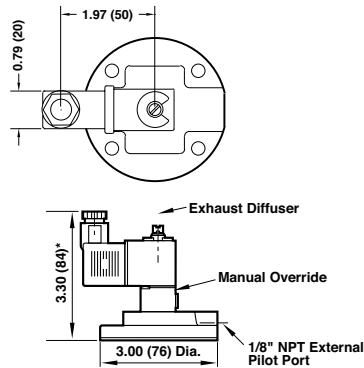
2-port/2-position 1/2" body (A101\*C)



3-port/2-position 1/2" body (D1024C)

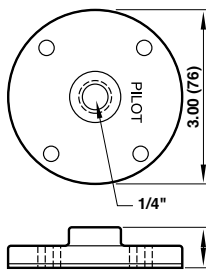


-CY Valve body operator with cable grip

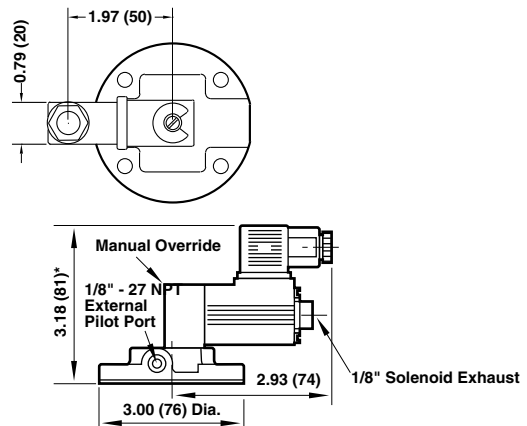


\*Gasket 0.03 (0.8) thick included in dimensions

-A1 Air Pilot Operator



-CC Valve body operator with cable grip



- In stock
- ◆ Ships within one week

### Solenoid Coils (22 mm coil)

Part number	Description
54452-07 ●	240V/60Hz-220V/50Hz, 7.5W
54452-01 ●	120V/60Hz-110V/50Hz, 7.5W
54452-02 ●	12 VDC, 7.5W
54452-03 ●	24 VDC, 6W

### Replacement Parts

Part number	Description
A1014C ●	2-way, normally closed valve
D1024C ●	3-way, inline, normally closed valve
F1024B ●	4-way, inline valve
-CY ●	non-locking solenoid pilot
-CC ●	solenoid pilot assembly
-A1 ●	air operator
54452-01 ●	Replacement coil for -CY operator
54934-01 ●	Replacement Connector for -CY operator
40110-A04 ●	Replacement coil for -CC
54933-05 ●	Replacement Connector for -CC operator

### Connectors

Part number	Code
<b>3-Pin Industrial Standard 22mm</b>	
-	A = no connector
54934-01 ●	B = Cable grip 0-240 VAC/ VDC
54934-21 ●	C = 6 ft molded cable, 0-240 VAC/ VDC
54934-08 ●	H = Cable grip w/indicator light 24 VDC
54934-02 ●	J = Cable grip w/indicator light 120 VAC
54934-05 ●	Z = 1/2" Conduit 0-240 VAC/ VDC
54934-30 ●	5 = 6 ft molded cable w/indicator light, surge suppression, 24 VAC/ VDC
54934-35 ●	6 = 6 ft molded cable w/indicator light, 120 VAC

### Replacement kit seals

Part number	Description
53474-03 ●	1/2" basic body
53475-01 ●	1" basic body
53822-01 ●	2" basic body

- In stock
- ◆ Ships within one week

**Wide range of operators**
**Suitable for multi-directional flow and dual supply applications**
**High flow capacity**
**Lightweight corrosion resistant materials**

**Technical data**
**Medium:**

Compressed air, filtered, lubricated and non-lubricated

**Operation:**

Spool Valve, directly and indirectly actuated

**Mounting:**

Through-holes in valve body

**Port Size:**

1/8" and 1/4" NPT

**Operating Pressure:**

Maximum 26.5" Hg to 145 psig (-0.9 to 10 bar)

**Flow Characteristics:**

Size	Function	Cv	l/min
1/8" NPT	3/2, 5/2, 5/3	0.34	335
1/4" NPT	3/2, 5/2, 5/3	0.98	965

**Operating Temperature:**





























32°F\* to 158°F (0°C\* to 70°C)

\* Consult our Technical Service for use below 35°F (2°C).

**Materials**

Diecast aluminum alloy body, aluminum or glass filled nylon end covers, nitrile rubber seals

**Models – 3/2 Mechanical Valves**
**Accessories**

Model no.	Actuation	Port size NPT	Flow Cv	Drawing no.	Thread NPT	Tube Size	Straight Fitting	90° swivel elbow	Muffler
 03029322' ●	Roller lever (heavy duty)/Spg	1/8	0.34	A, 10	1/8	1/4			
 03040222' ●	Roller/Spring	1/8	0.34	A, 2	1/8	1/4			
 03040022' ●	Plunger Spring	1/8	0.34		1/8	1/4			
 03041122' ●	Roller lever/Spring	1/8	0.34	A, 4	1/8	1/4			
 03061122' ●	Roller lever/Spring	1/4	0.98	B, 9	1/4	3/8			
 03043222' ●	Antenna/Spring	1/8	0.34	A, 8	1/8	1/4			
 03041022' ●	One-way trip	1/8	0.34	A, 33	1/8	1/4			

1 Normally closed

























● In stock

◆ Ships within one week

















**Models – 5/2 Mechanical Valves**

















































Model no.	Actuation	Port size NPT	Flow Cv	Drawing no.	Accessories				
					Thread NPT	Tube Size	Straight Fitting	90° swivel elbow	Muffler
 X3039322 ●	Roller lever (heavy duty)/Spg	1/8	0.34	E, 10	1/8	1/4	 C24250418 ●	 C24470418 ●	 MS001A ●
 X3045122 ●	Roller lever/Spring	1/8	0.34	E, 4	1/8	1/4	 C24250418 ●	 C24470418 ●	 MS001A ●
 X3065122 ●	Roller lever/Spring	1/4	0.98	F, 9	1/4	3/8	 C24250628 ●	 C24470628 ●	 MS002A ●
 X3044222 ●	Roller/Spring	1/8	0.34	E, 2	1/8	1/4	 C24250418 ●	 C24470418 ●	 MS001A ●
 X3064222 ●	Roller/Spring	1/4	0.98	F, 6	1/4	3/8	 C24250628 ●	 C24470628 ●	 MS002A ●
 X3047222 ●	Antenna/Spring	1/8	0.34	E, 8	1/8	1/4	 C24250418 ●	 C24470418 ●	 MS001A ●

**Models – 3/2 Manual Valves**

















Model no.	Actuation	Port size NPT	Flow Cv	Drawing no.	Accessories				
					Thread NPT	Tube Size	Straight Fitting	90° swivel elbow	Muffler
 03029622 ●	Lever/lever	1/8	0.34	–	1/8	1/4	 C24250418 ●	 C24470418 ●	 MS001A ●
 03040322 ●	Toggle/toggle	1/8	0.34	A, 2	1/8	1/4	 C24250418 ●	 C24470418 ●	 MS001A ●
 03041922 ●	Rotary knob/rotary knob	1/8	0.34	A, 26	1/8	1/4	 C24250418 ●	 C24470418 ●	 MS001A ●

- In stock
- ◆ Ships within one week

**Models – 3/2 Manual Valves**

Model no.	Actuation	Port size NPT	Flow Cv	Drawing no.	Accessories				
					Thread NPT	Tube Size	Straight Fitting	90° swivel elbow	Muffler
									
03040422' 	Black – Button/spring	1/8	0.34	A, 12	1/8	1/4	C24250418 	C24470418 	MS001A 
03060422' 	Black – Button/Spring	1/4	0.98	A, 12	1/4	3/8	C24250628 	C24470628 	MS002A 
									
03041822801 	Button (palm) Key	1/8	0.34		1/8	1/4	C24250418 	C24470418 	MS001A 
									
03041422' 	Black – Button (shrouded) spring	1/8	0.34	A, 13	1/8	1/4	C24250418 	C24470418 	MS001A 
									
03042522 	Knob/knob	1/8	0.34	A, 21	1/8	1/4	C24250418 	C24470418 	MS001A 
03062522 	Knob/knob	1/4	0.98	B, 20	1/4	3/8	C24250628 	C24470628 	MS002A 
									
03042422 	Knob/knob or pilot	1/8	0.34	29	1/8	1/4	C24250418 	C24470418 	MS001A 

























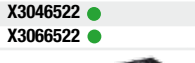











**Models – 5/2 Manual Valves**

Model no.	Actuation	Port size NPT	Flow Cv	Drawing no.	Accessories				
					Thread NPT	Tube Size	Straight Fitting	90° swivel elbow	Muffler
									
X3044422 	Black palm button	1/8	0.34	A, 12	1/8	1/8	C24250418 	C24470418 	MS001A 
									
X3064422 	Black palm button	1/4	0.98	A, 12	1/4	3/8	C24250628 	C24470628 	MS002A 





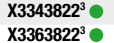



1 Normally closed

 In stock  
 Ships within one week

**Models – 5/2 Manual Valves**

Model no.	Actuation	Port size NPT	Flow Cv	Drawing no.	Accessories				
					Thread NPT	Tube Size	Straight Fitting	90° swivel elbow	Muffler
 X3044322 ●	Toggle/toggle	1/8	0.34	E, 24	1/8	1/4	 C24250418 ●	 C24470418 ●	 MS001A ●
 X3047722 ●	Lever/lever	1/8	0.34	E, 23	1/8	1/4	 C24250418 ●	 C24470418 ●	 MS001A ●
 X3067722 ●	Lever/lever	1/4	0.98	F, 31	1/4	3/8	 C24250628 ●	 C24470628 ●	 MS002A ●
 X3029622 ●	Heavy Duty Lever / Lever	1/8	0.34	E, 27	1/8	1/4	 C24250418 ●	 C24470418 ●	 MS001A ●
 X3045922 ●	Rotary knob/rotary knob	1/8	0.34	E, 27	1/8	1/4	 C24250418 ●	 C24470418 ●	 MS001A ●
 X3046522 ●	Knob, push/knob, pull	1/8	0.34	E, 26	1/8	1/4	 C24250418 ●	 C24470418 ●	 MS001A ●
 X3066522 ●	Knob, push/knob, pull	1/4	0.98	F, 20	1/4	3/8	 C24250628 ●	 C24470628 ●	 MS002A ●
 X3045822801 ●	Button (palm) Key	1/8	0.34	E, 26	1/8	1/4	 C24250418 ●	 C24470418 ●	 MS001A ●
 X3046822 ●	RED Emergency Stop /Twist ring	1/8	0.98	F, 20	1/4	3/8	 C24250628 ●	 C24470628 ●	 MS002A ●

**Models – 5/3 Manual Valves**

Model no.	Actuation	Port size NPT	Flow Cv	Drawing no.	Accessories				
					Thread NPT	Tube Size	Straight Fitting	90° swivel elbow	Muffler
 X3343822 <sup>3</sup> ●	Lever/spring/lever	1/8	0.34	J, 30	1/8	1/4	 C24250418 ●	 C24470418 ●	 MS001A ●
 X3363822 <sup>3</sup> ●	Lever/spring/lever	1/4	0.98	J, 31	1/4	3/8	 C24250628 ●	 C24470628 ●	 MS002A ●

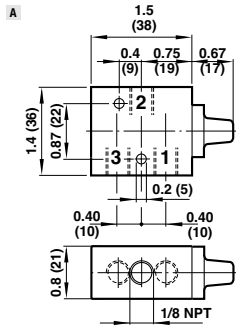
3 All ports blocked

- In stock
- ◆ Ships within one week

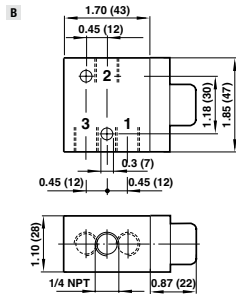
Dimensions in inches (mm)

Valve bodies

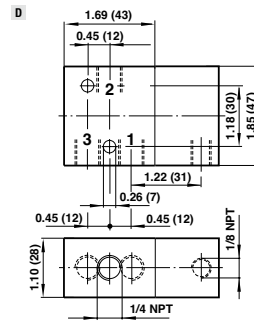
1/8, 3/2 Spring return, basic body



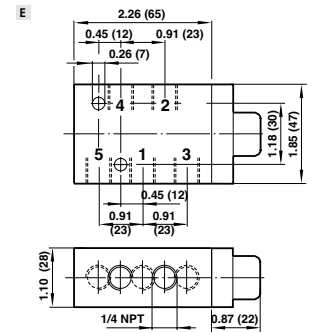
1/4, 3/2 Spring return, basic body



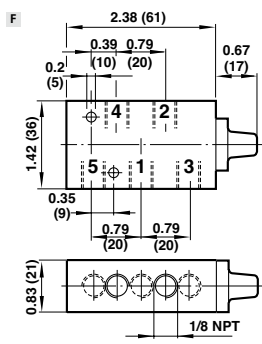
1/4, 3/2 Pilot return, basic body



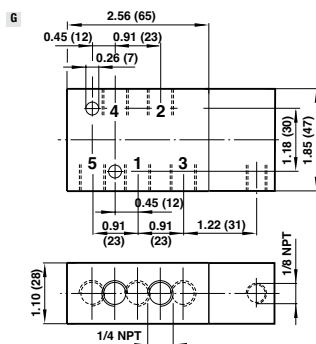
1/8, 5/2 Spring return, basic body



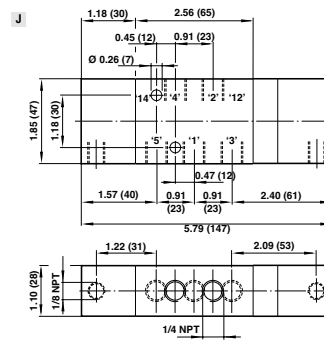
1/4, 5/2 Spring return, basic body



1/8, 5/2 Pilot return, basic body



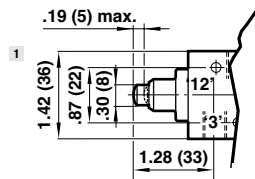
1/4, 5/3 Spring return, basic body



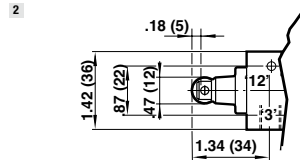
Mechanical valve actuators

Dimensions in inches (mm)

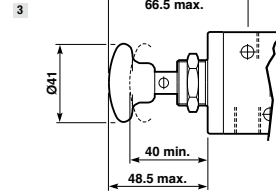
Plunger – 1/8 valves



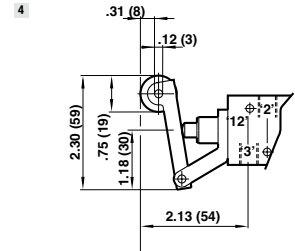
Roller – 1/8 valves



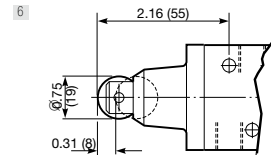
Plunger – G1/4 valves



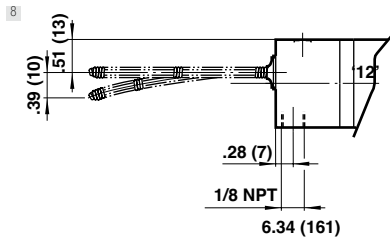
Roller lever – 1/8 valves



Roller – 1/4 valves



Antenna – 1/8 valves

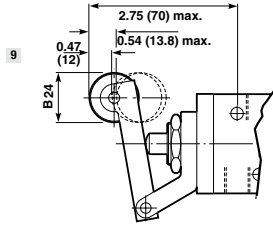


- In stock
- ◆ Ships within one week

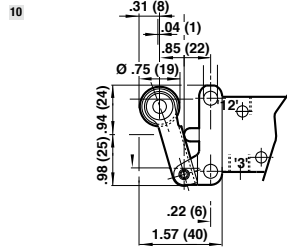
Dimensions in inches (mm)

**Mechanical valve actuators**

**Roller lever – 1/4 valves**

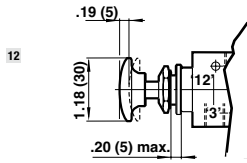


**Heavy duty roller lever – 1/8 valves**

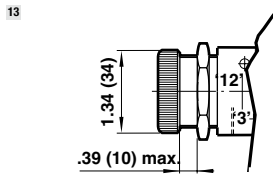


**Manual valve actuators**

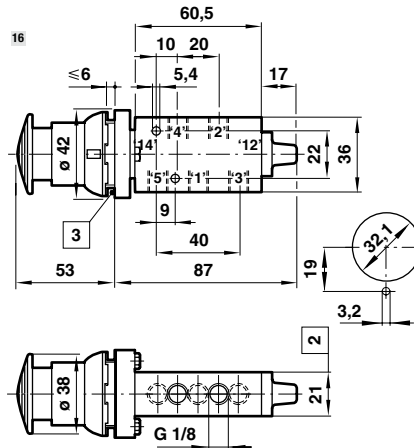
**Button – G1/8 valves**



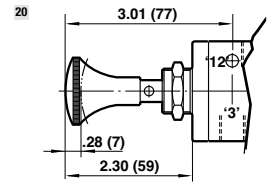
**Button (shrouded) – 1/8 valves**



**Emergency stop – 1/8 valves**



**Knob – G1/4 valves**

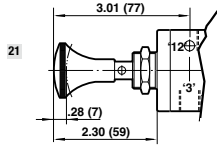


- In stock
- ◆ Ships within one week

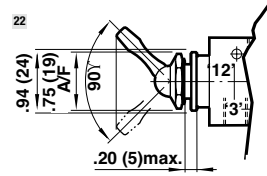
**Manual valve actuators**

Dimensions in inches (mm)

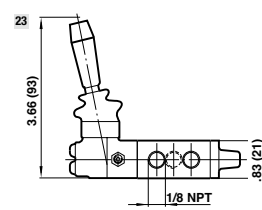
**Knob – 1/8 valves**



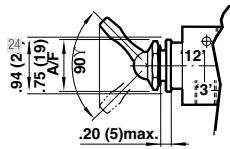
**Lever operated spring return valve – 1/8 valves**



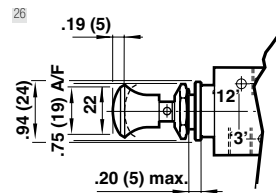
**Lever operated spring return valve – 1/8 valves**



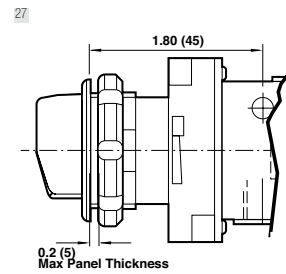
**Switch – G1/8 valves**



**Knob operated knob return valve – G1/8 valves**



**Rotary knob – 1/8 valves**

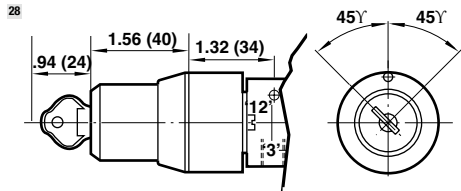


- In stock
- ◆ Ships within one week

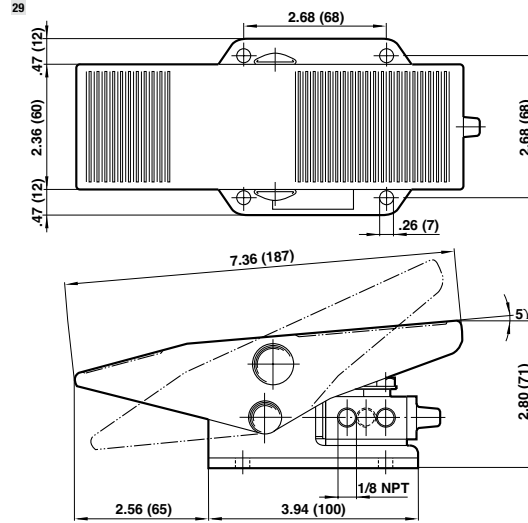
Manual valve actuators

Dimensions in inches (mm)

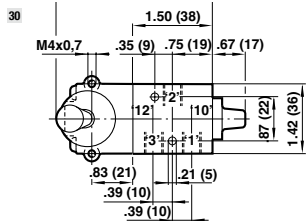
Key – 1/8 valves



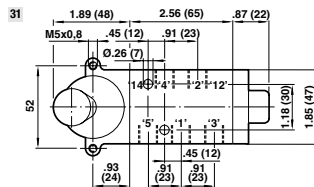
Pedal/treadle – 1/8-1/4 valves



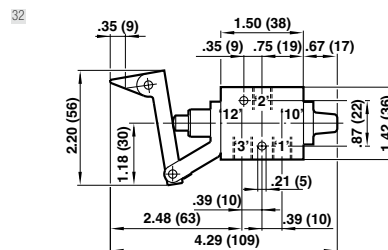
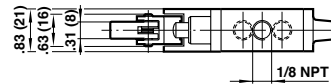
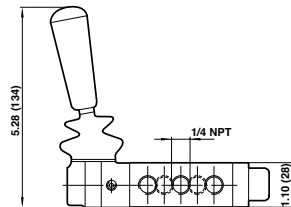
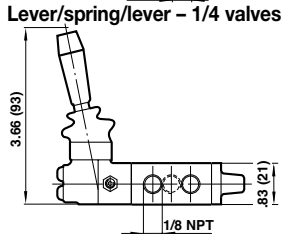
Lever – 1/8 valves



Lever – 1/4 valves



Lever/spring/lever – 1/4 valves



Operating force: 12 N (X3 3638 02 & X3 3678 02), 15 N (X3 3637 02 & X3 3677 02)  
Panel hole: Ø 31 mm  
Panel thickness: 8 mm maximum

- In stock
- ◆ Ships within one week

**Long lasting spool design**

**High flow compact valves**

**Wide range of Manual and Mechanical Operators available**

**Three functional types available in 3/2, 5/2, and 5/3 configurations**



### Technical data

**Medium:**

Filtered and lubricated or non-lubricated compressed air or vacuum.

**Operation:**

Spool valve manual or mechanical actuation.

**Mounting:**

Inline – through holes in valve body.

**Port Size:**

1/4", 3/8" & 1/2" NPT  
1/4" & 3/8" ISO G

**Operating Pressure:**

Maximum 150 psig (10.3 bar).

**Operating Temperature:**

-20°F to 160°F (-29°C to 71°C)  
Consult Technical Service for use below 35°F (2°C).

**Materials:**

Body: Aluminum  
Spool: Anodized aluminum  
Elastomers: Nitrile and special nitrile-based low-friction elastomers.

### Average Flow Factors in Cv‡ (l/min)

Valve	Flow Path		
	Port Size	Port 1 to 2 1 to 4	Port 2 to 3 4 to 5
3-Port, Inline	1/4"	1.6 (1600)	1.7 (1700)
	3/8"	1.6 (1600)	1.7 (1700)
5-Port, Inline	1/4"	1.6 (1600)	1.7 (1700)
	3/8"	1.6 (1600)	1.7 (1700)
	1/2"	1.6 (1600)	1.7 (1700)

‡ Flow Rating determined in accordance with NFPA/T3.21.3, Pneumatic fluid power – Flow test procedure and reporting method – For fixed orifice components.

● In stock











◆ Ships within one week



Models – 3/2 Manual Valves

Model No.	Actuation	Port size NPT	Flow Cv	Operating press psig	Body and spool	Operators	Repair kit	Drawing no.
								
K41DA00KS6KF0' <span style="color: green;">●</span>	Foot pedal/heavy duty spring	1/4	1.67	-10" Hg to 150	K41DA00 <span style="color: green;">●</span>	KF0 <span style="color: green;">●</span>	54237-59 <span style="color: green;">●</span>	1
K41EA00KS6KF0' <span style="color: green;">●</span>	Foot pedal/spring	3/8	1.67	-10" Hg to 150	K41DA00 <span style="color: green;">●</span>	KF0 <span style="color: green;">●</span>	54237-59 <span style="color: green;">●</span>	1
								
K41DA00KC0KL1 <span style="color: green;">●</span>	Lever/lever/Detent	1/4	1.67	-10" Hg to 150	K41DA00 <span style="color: green;">●</span>	KL1 <span style="color: green;">●</span>	54237-59 <span style="color: green;">●</span>	2
								
K41DA00KS6KLO' <span style="color: green;">●</span>	Lever/spring	1/4	1.67	-10" Hg to 150	K41DA00 <span style="color: green;">●</span>	KL0 <span style="color: green;">●</span>	54237-59 <span style="color: green;">●</span>	2
								
K41DA00C0KB3' <span style="color: green;">●</span>	Palm button/Detent	1/4	1.67	-10" Hg to 150	K41DA00 <span style="color: green;">●</span>	KB3 <span style="color: green;">●</span>	54237-59 <span style="color: green;">●</span>	3
K41EA00C0KB3' <span style="color: green;">●</span>	Palm button/Detent	3/8	1.67	-10" Hg to 150	K41EA00 <span style="color: green;">●</span>	KB3 <span style="color: green;">●</span>	54237-59 <span style="color: green;">●</span>	3
								
K41DA00KS6KB01P2' <span style="color: green;">●</span>	Palm button/spring	1/4	1.67	-10" Hg to 150	K41DA00 <span style="color: green;">●</span>	KB0 <span style="color: green;">●</span>	54237-59 <span style="color: green;">●</span>	3
								
K41DA00C0KB0 <span style="color: green;">●</span>	Palm Button/spring	1/4	1.67	-10" Hg to 150	K41DA00 <span style="color: green;">●</span>	KB0 <span style="color: green;">●</span>	54237-59 <span style="color: green;">●</span>	3

Models – 3/2 Mechanical Valves

Model No.	Actuation	Port size NPT	Flow Cv	Operating pressure (psig)	Body and spool	Operator	Repair kit	Drawing no.
								
K41DA00KS6KP0' <span style="color: green;">●</span>	tappet/spring	1/4	1.67	-10" Hg to 150	K41DA00 <span style="color: green;">●</span>	KP0 <span style="color: green;">●</span>	54237-59 <span style="color: green;">●</span>	5
								
K41DA00KS6KR2' <span style="color: green;">●</span>	Lever roller/spring, Horizontal	1/4	1.67	-10" Hg to 150	K41DA00 <span style="color: green;">●</span>	KR2 <span style="color: green;">●</span>	54237-59 <span style="color: green;">●</span>	5
Image not available								
K41EA00KS6KR4' <span style="color: green;">●</span>	Lever roller/spring, Vertical	3/8	1.67	-10" Hg to 150	K41EA00 <span style="color: green;">●</span>	KR4 <span style="color: green;">●</span>	54237-59 <span style="color: green;">●</span>	5





1 Normally closed

- In stock
- ◆ Ships within one week

**Models – 5/2 Manual Valves**

Model no.	Actuation	Port size NPT	Flow Cv	Operating press psig	Body and spool	Operator	Repair kit	Drawing no.
 <b>K71DA00KS6KF0</b> ●	Foot pedal/spring	1/4	1.67	-10" Hg to 150	 ●	 ●	 ●	1
 <b>K71DA00KC0KT1</b> ●	Treadle pedal	1/4	1.67	-10" Hg to 150	 ●	 ●	 ●	1
 <b>K71DA00KC0KL1</b> ●	Lever/lever	1/4	1.67	-10" Hg to 150	 ●	 ●	 ●	2
 <b>K71DA00KC0KLO</b> ●	Detent lever/detent lever	1/4	1.67	-10" Hg to 150	 ●	 ●	 ●	2
 <b>K71DA00KS6KLO</b> ●	Lever/spring	1/4	1.67	-10" Hg to 150	 ●	 ●	 ●	2
 <b>K71DA00KC0KB0</b> ●	Palm button, black	1/4	1.67	-10" Hg to 150	 ●	 ●	 ●	3
 <b>K71DA00KC0KB31P2</b> ●	Detent palm button	1/4	1.67	-10" Hg to 150	 ●	 ●	 ●	3
 <b>K71DA00KS6KB01P2</b> ●	Palm button/spring, panel nut, black	1/4	1.67	-10" Hg to 150"	 ●	 ●	 ●	3
 <b>K71EA00KS6KF0</b> ●	Foot pedal/spring	3/8	1.67	-10" Hg to 150	 ●	 ●	 ●	1
 <b>K71EA00KC0KL1</b> ●	Detent lever/detent lever	3/8	1.67	-10" Hg to 150	 ●	 ●	 ●	2



**Models – 5/2 Mechanical Valves**

Model no.	Actuation	Port size NPT	Flow Cv	Operating press psig	Body	Operator	Repair kit	Drawing no.
 <b>K71DA00KS6KR2</b> ●	Lever roller/spring,	1/4	1.67	-10" Hg to 150	 ●	 ●	 ●	4

● In stock

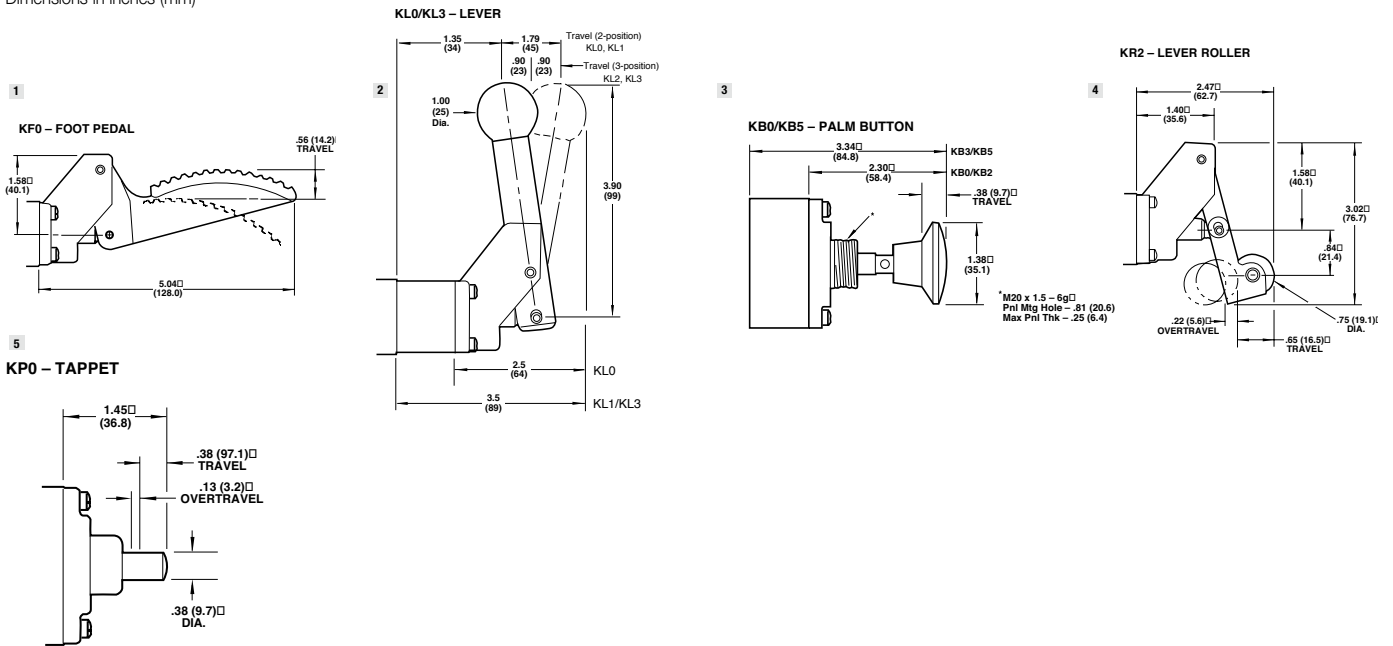
◆ Ships within one week

Models – 5/3 Manual Valves

Model No.	Actuation	Port size NPT	Flow Cv	Pilot pressure (psig)	Body and spool	Operators	Repair kit	Drawing no.
	lever/lever/lever, Detent	1/4	1.67	-10" Hg to 150	K81DA00	KL3	54237-56	2
K81EA00KC0KL3								
	lever/lever/lever	1/4	1.67	-10" Hg to 150	K81DA06	KL2	54237-56	2
	lever/lever/lever	1/4	1.67	-10" Hg to 150	K81DA00	KL2	54237-56	2
K81DA00KL2KC0	lever	1/4	1.67	-10" Hg to 150		KL2		
K81EA00KC0KL2	lever/lever/lever	3/8	1.67	-10" Hg to 150		KL2		
K81FA00KC0KL2	lever/lever/lever	1/2	1.67	-10" Hg to 150		KL2		
	Treadle, spring centered	1/4	1.67	-10" HG to 150	K81DA00	KT2	54237-56	2
	Foot guard for use with KF0 operators							

3 All ports blocked

Dimensions in inches (mm)



- In stock
- ◆ Ships within one week

3-way, manually operated, full flow lockout valves can be locked in the closed position with a customer supplied padlock.

Helps you comply to OSHA regulations, as they relate to OSHA regulation 29 CFR Part 1910, standard for lockout/tagout procedures.

### Technical data

#### Fluid:

Compressed air  
Maximum Pressure:  
300 psig (20.4 bar)

#### Temperature Range\*:

-20° to 175°F (-29° to 79°C)

\*With a dew point of supply air less than air temperature below 35°F (2°C).

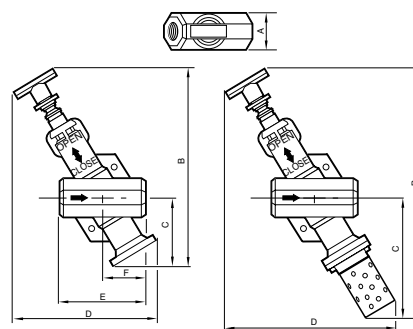
#### Maximum Diameter of Lock

##### Shackle:

5/16" (8mm)

##### Materials

Valve Body: Aluminum  
Muffler Base: Zinc  
Spool, T-Handle  
Spring Detent: Stainless Steel  
Elastomers  
Nitrile and Polyurethane





Dimensions in inches (mm)

### Inline Lockout

Valve Type	A	B		C		D		E	F
		Without Muffler	With Muffler	Without Muffler	With Muffler	Without Muffler	With Muffler		
1/2" basic	1.87 (48)	9.33 (237)	11.78 (299)	2.90 (74)	5.35 (136)	6.97 (177)	7.97 (202)	4.00 (102)	2.00 (51)
1" basic	2.26 (57)	12.07 (307)	15.72 (399)	4.13 (105)	7.78 (198)	8.65 (220)	10.46 (266)	5.00 (127)	2.50 (64)

### Inline Lockout

Model No. with muffler Black handle	Basic size inch	Handle color	Port size NPT	Cv Factor In-Out	Cv Factor Out-Exhaust Ports	Replacement Muffler
 C0023B ●	1/2	Black	3/8	6.6	6.6	ML004F ●
C0023C ●	1/2	Black	1/2	9.3	7.9	ML004F ●
C0023D ●	1/2	Black	3/4	12.6	8.6	ML004F ●
C0024B ●	1	Black	1	16.2	9.2	ML008F ●
C0024C ●	1	Black	1-1/4	25.3	8.9	ML008F ●
C0024D ●	1	Black	1-1/2"	22.4	10.0	ML008F ●

Model No. No muffler Red handle	Basic size	Handle color	Port size NPT	Cv Factor In-Out Ports	Cv Factor Out-Exhaust Ports	Exhaust port NPT
 CR021C1M2 ●	1/2	Red	1/2	9.3	7.9	3/4
CR021D1M2 ●	1/2	Red	3/4	12.6	8.6	3/4
CR022B1M1 ●	1	Red	1	16.2	9.2	3/4

● In stock

◆ Ships within one week

**Reliable, rugged proportional I/P and E/P converters**  
**Suitable for a wide range of applications**  
**Excellent accuracy**  
**High flow versions**  
**NEMA4 environmental protection in normal operation**

**Technical data**

**Medium:**

Oil free, dry air, filtered to 5 micron

**Flow capacity:**

Up to 10 scfm (300 l/min)

**Operating pressure:**

At least 10 psig above maximum required output pressure

**Connections:**

NPT 1/4"

**Operating temperature:**

-4° to 160°F (-20°C to 70°C)

**Response time:**

<30 psig: less than 0.5 seconds for 10-90% step change  
 >30 psig: 2 seconds for 10-90% step change

**Total error:**

±0.5% of span (typical, independent error includes the combined effect of non-linearity, hysteresis, deadzone and repeatability)

**Supply sensitivity:**

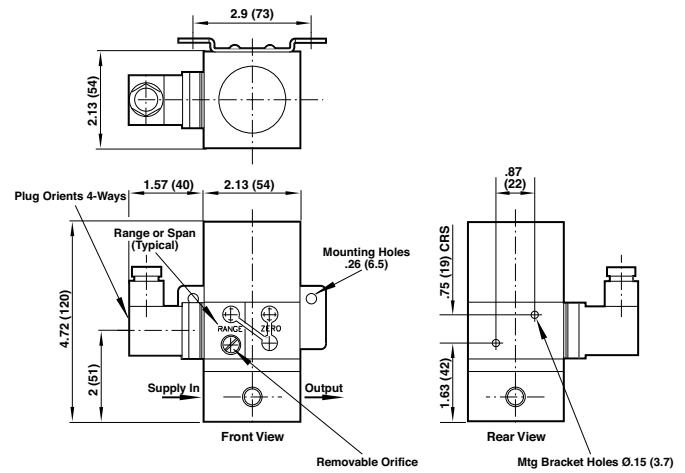
>0.025% span output change per % supply pressure change

**Failure mode:**

Signal falls to bleed pressure when electrical supply fails


**Material of construction:**

Zinc die-casting passivated and epoxy paint, nitrile diaphragms, stainless steel/nylon flapper nozzle and supply valve  
 Mass: 3.3 lbs (1500g) approx.



Dimensions in Inches (mm)

**Standard Models**

Model No.	Port Size	Outlet Pressure	Control Signal	Unit measure	Electrical Connection	Cable Grip Connector	6 ft molded cable
 VP1001PK400A00 ●	1/4" NPT	3-14.5 psi	4-20mA	PSI	30mm DIN 43650, form A	54933-05 ●	54933-06 ●
VP1006PK401A00 ●	1/4" NPT	3-90 psi	4-20mA	PSI	30mm DIN 43650, form A	54933-05 ●	54933-06 ●
VP1008PK401A00 ●	1/4" NPT	3-145 psi	4-20mA	PSI	30mm DIN 43650, form A	54933-05 ●	54933-06 ●

- In stock
- ◆ Ships within one week

## SWITCH TO IMI NORGREN WITH OUR **CONVERSION TOOL**

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**Closed loop air pilot operated  
proportional pressure control valve**

**Adjustable for a wide range of  
applications**

**Fast response**

**Low power consumption**

**High flow**



**Technical data**

**Medium:**

Compressed air, filtered to 5 micron, non-lubricated

**Operation:**

Proportional, direct acting air piloted spool

**Supply Pressure:**

200 psig (14 bar) max

**Supply Sensitivity:**

Better than 0.75% span output change per bar supply pressure change

**Flow Capacity:**

Up to 50 scfm (1400 NI/min)

**Response Time:**

< 80 mS (from 10-90% of output pressure into a 0.1 litre load)

**Air Consumption:**

< .177 scfm (5 l/min)

**Port Size:**

1/4 PTF (G1/4)

**Total Error:**

Max. error < ±1% of span (independent error includes the combined effect of non-linearity, hysteresis, deadzone and repeatability)

**Operating Temperature:**

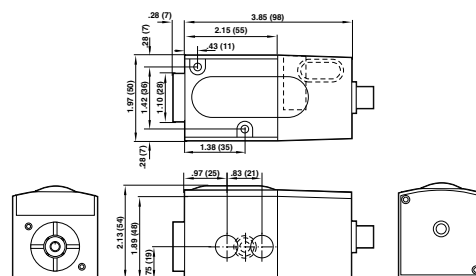
23° to 120°F (-5° to 50°C)

**Degree of protection:**

NEMA 4 (IP65) in normal operation





**Material of Construction:**

Aluminum body, zinc diecast lid and end cover



**Models**

**Electrical connectors**

Model No.	Port Size NPT	Outlet Pressure	Control Signal	Units	Electrical Connection	M12 90 deg Connector 6ft	M12 Straight Connector 16ft	M12 Straight Connector 30ft
								
VP5010PK111H00	1/4"	0 - 145 psi	0-10V	PSI	M12x1, 5-pin	8112194000000000	0250081000000000	0250472000000000
VP5010BJ111H00	1/4"	0 - 6 bar	0-10V	Bar	M12x1, 5-pin	8112194000000000	0250081000000000	0250472000000000
VP5010PK411H00	1/4"	0 - 145 psi	4-20mA	PSI	M12x1, 5-pin	8112194000000000	0250081000000000	0250472000000000
VP5010BJ411H00	1/4"	0 - 10 bar	4-20mA	Bar	M12x1, 5-pin	8112194000000000	0250081000000000	0250472000000000
VP5006PK111H00	1/4"	0 - 90 psi	0-10V	PSI	M12x1, 5-pin	8112194000000000	0250081000000000	0250472000000000
VP5006BJ111H00	1/4"	0 - 10 bar	0-10V	Bar	M12x1, 5-pin	8112194000000000	0250081000000000	0250472000000000
VP5006PK411H00	1/4"	0 - 90 psi	4-20mA	PSI	M12x1, 5-pin	8112194000000000	0250081000000000	0250472000000000
VP5006BJ411H00	1/4"	0 - 6 bar	4-20mA	Bar	M12x1, 5-pin	8112194000000000	0250081000000000	0250472000000000
VP5002PK111H00	1/4"	0 - 30 psi	0-10V	PSI	M12x1, 5-pin	8112194000000000	0250081000000000	0250472000000000
VP5002PK411H00	1/4"	0 - 30 psi	4-20mA	PSI	M12x1, 5-pin	8112194000000000	0250081000000000	0250472000000000

- In stock
- ◆ Ships within one week

**Closed loop air pilot operated  
proportional pressure control valve with  
pressure output display**

**Fast response time**

**High flow**

**Excellent performance characteristics**

**Adjustable gain**

**Adjustable pressure range**

**Low power consumption**

**Feedback signal**

**Manifold mountable**



### Technical data

#### Medium:

Compressed air filtered to 5 µm,  
dry and  
non-lubricated

#### Operation:

Air piloted spool valve with  
integrated electronic pressure  
control

#### Supply pressure:

Minimum 2 bar above maximum  
output required,  
14 bar max.

#### Supply sensitivity:

Better than 0,75% span output  
change per bar supply pressure  
change

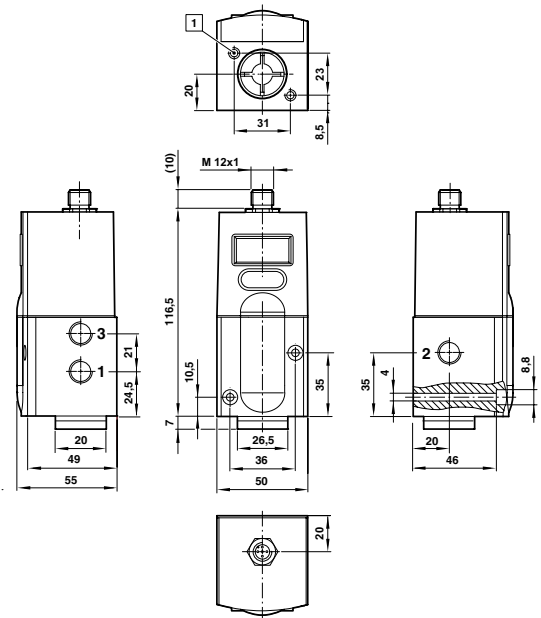
#### Flow:

Up to 1400 N l/min





#### Ambient temperature:

32°F to 122°F

Contact our technical service for  
use below +32°F



### Models

Model No.	Port Size NPT	Outlet Pressure	Control Signal	Units	Electrical Connection	M12 90 deg Connector 6ft	M12 Straight Connector 16ft	M12 Straight Connector 30ft
								
VP5010SPK111H00	1/4"	0 - 145psi	0-10V	PSI	M12x1, 5-pin	8112194000000000	0250081000000000	0250472000000000
VP5010SPK411H00	1/4"	0 - 145psi	4-20mA	PSI	M12x1, 5-pin	8112194000000000	0250081000000000	0250472000000000
VP5006SPK111H00	1/4"	0 - 90psi	0-10V	PSI	M12x1, 5-pin	8112194000000000	0250081000000000	0250472000000000
VP5006SPK411H00	1/4"	0 - 90psi	4-20mA	PSI	M12x1, 5-pin	8112194000000000	0250081000000000	0250472000000000
VP5002SPK111H00	1/4"	0 - 30psi	0-10V	PSI	M12x1, 5-pin	8112194000000000	0250081000000000	0250472000000000
VP5002SPK411H00	1/4"	0 - 30psi	4-20mA	PSI	M12x1, 5-pin	8112194000000000	0250081000000000	0250472000000000

● In stock

◆ Ships within one week



- Fully programmable with on-board diagnostics
- Multi-option language display
- Password protection option at first level functionality
- Instant LED warning functions
- Application specific set-up
- Pressure output display; no gauge necessary
- High speed response
- Optional manifold mount utilizes the ISO Size 2 subbase



**Technical data**

**Medium**

Compressed air filtered to 40 µm, non-lubricated

**Supply pressure**

205 psig (14 bar) max.

**Supply sensitivity**

< 50 mbar between 160 and 90 psig (11 and 6 bar) supply

**Response time**

< 100 ms (from 10 to 90% of output pressure into a 0.1 litre load)

**Total error**

Maximum error ± 1.45 psig (100 mbar) of total span (independent error includes the combined effect of non-linearity, hysteresis, deadzone and repeatability)

**Ambient temperature**

-4°F to 122°F (-20°C to 50°C)

**Degree of protection**

NEMA 4 in normal operation

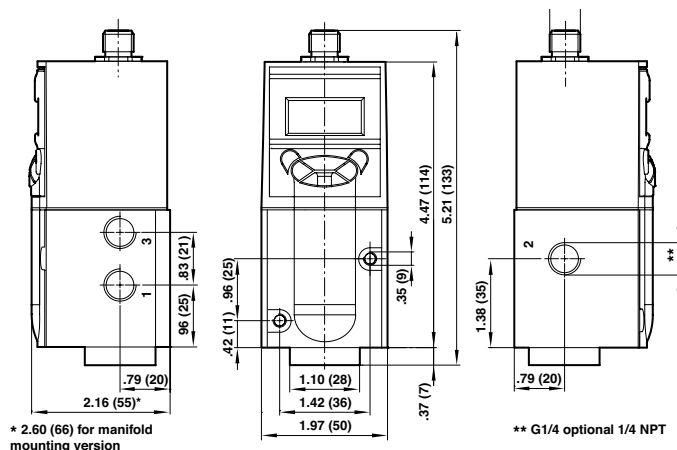
**Weight**

1.76 lbs (0.8 kg)


**Materials**

Body: aluminum

Lid and end cover: zinc diecast



**Models**

Model No.	Port Size	Outlet Pressure	Control Signal	Units	Electrical Connection	M12 90 deg Connector 6ft	M12 Straight Connector 16ft	M12 Straight Connector 30ft
 VP5110PK111H00	1/4" NPT	0 - 145 psi	0-10V	PSI	M12x1, 5-pin	8112194000000000	0250081000000000	0250472000000000
VP5110BJ111H00	1/4" ISOG	0 - 10 bar	0-10V	Bar	M12x1, 5-pin	8112194000000000	0250081000000000	0250472000000000
VP5110PK411H00	1/4" NPT	0 - 145 psi	4-20mA	PSI	M12x1, 5-pin	8112194000000000	0250081000000000	0250472000000000
VP5110BJ411H00	1/4" ISOG	0 - 10 bar	4-20mA	Bar	M12x1, 5-pin	8112194000000000	0250081000000000	0250472000000000

- In stock
- ◆ Ships within one week

**NEMA 4 electrical rating****CE marked**

**Dual timers allow full adjustment of both the drain interval (0.5 to 45 minutes) and the valve actuation duration (0.5 to 10 seconds)**

**Two indicator lights for visual inspection of power on and valve actuation**

**Solid state electronics**

**Non-position sensitive installation**

**Technical data****Timer****Interval Time T2(1):**

0.5 - 45 minutes

**Discharge Time T1(1):**

0.5 - 10 seconds

**Manual Test Switch****Supply Voltage (2):**

24V - 240V± 10% 50/60Hz

**Current Consumption:**

Max. 4mA

**Operating Temperature:**

32° to 130°F

**Environmental Protection:**

IP 65 NEMA 4

**Case Material:**

ABS Plastic FR Grade

**Connection:**

DIN 43650A ISO 4400/6952

**Indicators (2):**

Yellow, valve open

Yellow, valve closed

**Valve****Type:**

2/2-Way direct acting valve

**In/Out Ports:**

1/4", 3/8", 1/2" NPT-Female

**Max. Working Pressure:**

300 Psi

**Operating Temperature:**

32°F/130°F ambient

**Media Temperature:**

Max. 194°F

**Valve Body:**

Stainless Steel, Orifice 3/16"

**Insulation:**

Thermal group H

**Environmental Protection:**

IP 65 NEMA 4

**Supply Voltage\*:**

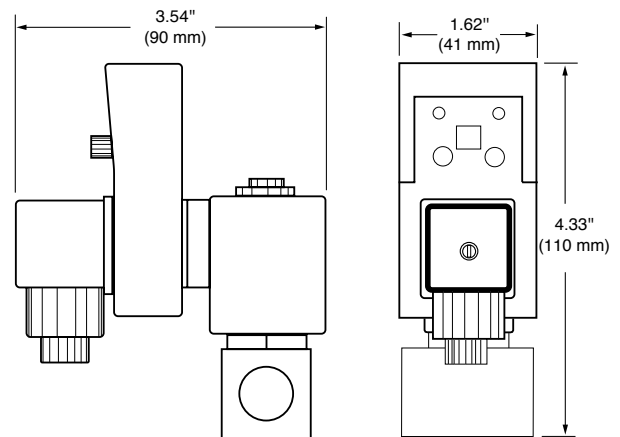
24V - 240V

**Voltage Tolerance:**

± 10%





**Mounting:**

Any position






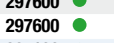


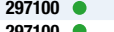





\*See coil for the correct supply voltage  
Dimensions in inches (mm)

**Models**

Model No.	Port size NPT	Voltage
 17-020-300 ●	1/4"	115 VAC
 17-020-306 ●	1/2"	115 VAC
 17-020-301 ●	1/4"	230 VAC
 17-020-307 ●	1/2"	230 VAC

**Service parts**

Timer	Service kit	Coils
 8030 ●	 298211 ●	 297600 ●
 8030 ●	 298211 ●	 297600 ●
 8030 ●	 298211 ●	 297100 ●
 8030 ●	 298211 ●	 297100 ●

Function: The function of the electronic drain valve is to drain condensate from air compressors, air dryers, condensate separators and air filters. The condensate can be drained in any interval between the adjustable time cycles of 0.5 to 45 minutes. The draining time can be set between 0.5 to 10 seconds.

Function: The function of the electronic drain valve is to drain condensate from air compressors, air dryers, condensate separators and air filters. The condensate can be drained in any interval between the adjustable time cycles of 0.5 to 45 minutes. The draining time can be set between 0.5 to 10 seconds.

● In stock

◆ Ships within one week

Ideally suited for the control of liquid, air or vacuum

Compact design allows for easy installations

UL Listed



**Technical data**

**Medium**

For liquid, air, or vacuum

**Operating Temperature**

32°F to 104°F (at 100% duty cycle)

**Connection Type**

1/8" NPT

**Response Time (On)**

9-16 ms Typical

**Weight**

0.3 lbs (.14 kg)

**Wattage**

6W

**Coil Type**

Dry tape wrapped with leads

Free standing molded - 1/4" spade

**Approvals**

UL and CSA listed

**CV Body**

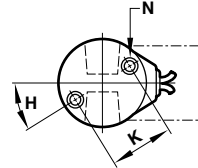
Max.= 0.290 Min. = 0.035

**CV Stop**

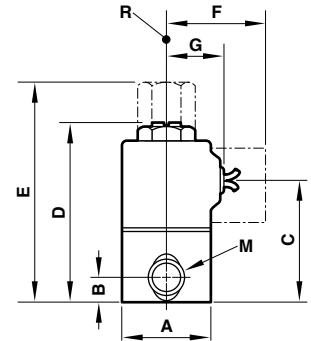
Max.= 0.115 Min. = 0.025

**Internal Wetted Material**

430FR & 300 Series Cress



Dimensions in inches (mm)



**Dimensions**

A	B	C	D	E	F	G	H	K	M	N	R
.99 (25)	.28 (7)	1.33 (33)	2.12 (54)	2.47 (63)	1.12 (29)	.64 (16)	32-1/2"	.73 (19)	1/8-27 NPTF	#8-32 x MFT UNC	1/8-27 NPTF

**Series 1 valves, 1/8" NPT port, 2-way Normally closed**

Part number	Port NPT	Function	Orifice Body	MOPD*	Body material	Housing type	Seal material	Voltage
U142010-24VDC	1/8"	2WNC	1/32"	800	Stainless steel	1/2" NPT Conduit	Buna	24 DC
U142112-02-24VDC	1/8"	2WNC	1/16"	300	Brass	1/2" NPT Conduit	Fluorocarbon	24 DC
U142111-120-60	1/8"	2WNC	3/64"	200	Brass	1/2" NPT Conduit	Buna	120 AC
U142111-24VDC	1/8"	2WNC	3/64"	200	Brass	1/2" NPT Conduit	Buna	24 DC
U142015-24VDC	1/8"	2WNC	1/8"	100	Stainless steel	1/2" NPT Conduit	Buna	24 DC

**Series 1 valves, 1/8" NPT port, 3-way Normally closed**

Part number	Port NPT	Function	Orifice Body	MOPD*	Body material	Housing type	Seal material	Voltage
U142131-120-60	1/8"	3WNC	3/64"	150	Brass	1/2" NPT Conduit	Buna	120 AC
U142132-24VDC	1/8"	3WNC	1/16"	100	Brass	1/2" NPT Conduit	Buna	24 DC
U142133-120-60	1/8"	3WNC	5/64"	80	Brass	1/2" NPT Conduit	Buna	120 AC

\* MOPD - Maximum operating pressure differential between in and out ports

2-way and 3-way valves for neutral gases, liquids, and vacuum

Fluorocarbon seals for better fluid compatibility.

Wide pressure range to meet your challenging applications

UL Listed

### Technical data

#### Medium

For neutral gases, liquid, or vacuum

#### Operating Temperature

32°F to 104°F (at 100% duty cycle)

#### Connection Type

1/8" NPT

#### Response Time (On)

9-16 ms Typical

#### Mass

0.33 lbs (.15 kg) Typical

#### Wattage

7W

#### Approvals

UL and CSA listed

#### Materials

Body Material: Stainless Steel

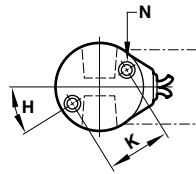
Seal Materials: Fluorocarbon

Internal Wetted Material:

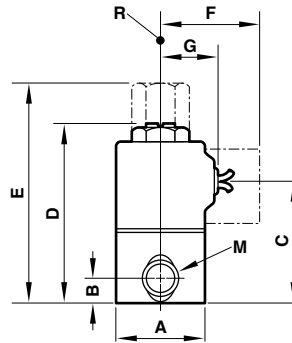
430FR & 300 Series Cres

Housing: Slotted

Coil Type: Molded with leads



Dimensions in inches (mm)



### Dimensions

A	B	C	D	E	F	G	H	K	M	N	R
.99 (25)	.28 (7)	1.51 (38)	2.32 (59)	2.66 (68)	1.12 (29)	.64 (16)	32-1/2°	.73 (19)	1/8-27 NPTF	#8-32 x MFT UNC	1/8-27 NPTF

### Series 2 valves, 1/8" NPT port, 2-way Normally closed

Part number	Port NPT	Function	Orifice Body	Orifice Stop	CV Body	CV Stop	MOPD*	Voltage
U249010-0261-120-60	◆ 1/8"	2WNC	1/32"	NA	0.035	NA	1000	120/60 VAC
U249010-0261-12VDC	◆ 1/8"	2WNC	1/32"	NA	0.035	NA	1000	12 VDC
U249010-0261-24VDC	◆ 1/8"	2WNC	1/32"	NA	0.035	NA	1000	2 VDC
U249012-0261-120-60	◆ 1/8"	2WNC	1/16"	NA	0.095	NA	400	120/60 VAC
U249012-0261-12VDC	◆ 1/8"	2WNC	1/16"	NA	0.095	NA	400	12 VDC
U249012-0261-24VDC	◆ 1/8"	2WNC	1/16"	NA	0.095	NA	400	24 VDC
U249014-0261-120-60	◆ 1/8"	2WNC	3/32"	NA	0.175	NA	250	120/60 VAC
U249014-0261-12VDC	◆ 1/8"	2WNC	3/32"	NA	0.175	NA	250	12 VDC
U249014-0261-24VDC	◆ 1/8"	2WNC	3/32"	NA	0.175	NA	250	24 VDC
U249015-0261-120-60	◆ 1/8"	2WNC	1/8"	NA	0.245	NA	150	120/60 VAC
U249015-0261-12VDC	◆ 1/8"	2WNC	1/8"	NA	0.245	NA	150	12 VDC
U249015-0261-24VDC	◆ 1/8"	2WNC	1/8"	NA	0.245	NA	150	24 VDC
U249016-0261-120-60	◆ 1/8"	2WNC	5/32"	NA	0.29	NA	100	120/60 VAC
U249016-0261-12VDC	◆ 1/8"	2WNC	5/32"	NA	0.29	NA	100	12 VDC
U249016-0261-24VDC	◆ 1/8"	2WNC	5/32"	NA	0.29	NA	100	24 VDC

\*MOPD - Maximum operating pressure differential between in and out ports

● In stock

◆ Ships within one week

**Series 2 valves 1/8" NPT port, 3-way Normally closed**

Part number	Port NPT	Function	Orifice Body	Orifice Stop	CV Body	CV Stop	MOPD*	Voltage
U249040-0261-120-60 ◆	1/8"	3WNC	1/32"	1/32"	0.035	0.025	250	120/60 VAC
U249040-0261-12VDC ◆	1/8"	3WNC	1/32"	1/32"	0.035	0.025	250	12 VDC
U249040-0261-24VDC ◆	1/8"	3WNC	1/32"	1/32"	0.035	0.025	250	24 VDC
U249042-0261-120-60 ◆	1/8"	3WNC	1/16"	1/16"	0.085	0.115	125	120/60 VAC
U249042-0261-12VDC ◆	1/8"	3WNC	1/16"	1/16"	0.085	0.115	125	12 VDC
U249042-0261-24VDC ◆	1/8"	3WNC	1/16"	1/16"	0.085	0.115	125	24 VDC
U249044-0261-120-60 ◆	1/8"	3WNC	3/32"	5/64"	0.165	0.14	75	120/60 VAC
U249044-0261-12VDC ◆	1/8"	3WNC	3/32"	5/64"	0.165	0.14	75	12 VDC
U249044-0261-24VDC ◆	1/8"	3WNC	3/32"	5/64"	0.165	0.14	75	24 VDC
U249045-0261-120-60 ◆	1/8"	3WNC	1/8"	5/64"	0.24	0.14	45	120/60 VAC
U249045-0261-12VDC ◆	1/8"	3WNC	1/8"	5/64"	0.24	0.14	45	12 VDC
U249045-0261-24VDC ◆	1/8"	3WNC	1/8"	5/64"	0.24	0.14	45	24 VDC
U249046-0261-120-60 ◆	1/8"	3WNC	5/32"	5/64"	0.285	0.14	20	120/60 VAC
U249046-0261-12VDC ◆	1/8"	3WNC	5/32"	5/64"	0.285	0.14	20	12 VDC
U249046-0261-24VDC ◆	1/8"	3WNC	5/32"	5/64"	0.285	0.14	20	24 VDC

**Series 2 valves 1/8" NPT port, 3-way Multi-position**

Part number	Port NPT	Function	Orifice Body	Orifice Stop	CV Body	CV Stop	MOPD*	Voltage
U249060-0261-120-60 ◆	1/8"	3WMP	1/32"	1/32"	0.035	0.035	175	120/60 VAC
U249060-0261-12VDC ◆	1/8"	3WMP	1/32"	1/32"	0.035	0.035	175	12 VDC
U249060-0261-24VDC ◆	1/8"	3WMP	1/32"	1/32"	0.035	0.035	175	24 VDC
U249062-0261-120-60 ◆	1/8"	3WMP	1/16"	1/16"	0.085	0.115	100	120/60 VAC
U249062-0261-12VDC ◆	1/8"	3WMP	1/16"	1/16"	0.085	0.115	100	12 VDC
U249062-0261-24VDC ◆	1/8"	3WMP	1/16"	1/16"	0.085	0.115	100	24 VDC
U249064-0261-120-60 ◆	1/8"	3WMP	3/32"	5/64"	0.165	0.14	50	120/60 VAC
U249064-0261-12VDC ◆	1/8"	3WMP	3/32"	5/64"	0.165	0.14	50	12 VDC
U249064-0261-24VDC ◆	1/8"	3WMP	3/32"	5/64"	0.165	0.14	50	24 VDC
U249065-0261-120-60 ◆	1/8"	3WMP	1/8"	5/64"	0.24	0.14	25	120/60 VAC
U249065-0261-12VDC ◆	1/8"	3WMP	1/8"	5/64"	0.24	0.14	25	12 VDC
U249065-0261-24VDC ◆	1/8"	3WMP	1/8"	5/64"	0.24	0.14	25	24 VDC
U249066-0261-120-60 ◆	1/8"	3WMP	5/32"	5/64"	0.285	0.14	15	120/60 VAC
U249066-0261-12VDC ◆	1/8"	3WMP	5/32"	5/64"	0.285	0.14	15	12 VDC
U249066-0261-24VDC ◆	1/8"	3WMP	5/32"	5/64"	0.285	0.14	15	24 VDC

\*MOPD - Maximum operating pressure differential between in and out ports

- In stock
- ◆ Ships within one week

Ideally suited for the control of liquid, air or vacuum

Compact design allow for easy installations

1/4" Porting

Increased pressures to allow for maximum flow.

UL Listed

#### Technical data

##### Medium

For liquid, air, or vacuum

##### Operating Temperature

32°F to 104°F (at 100% duty cycle)

##### Connection Type

1/4" NPT

##### Response Time (On)

9-16 ms Typical

##### Mass

0.43 lbs (.2 kg) Typical

##### Wattage

7W

##### Housing

See tables

##### Coil Type

Dry tape wrapped with leads

Free standing molded - 1/4" spade

##### Approvals

UL and CSA listed

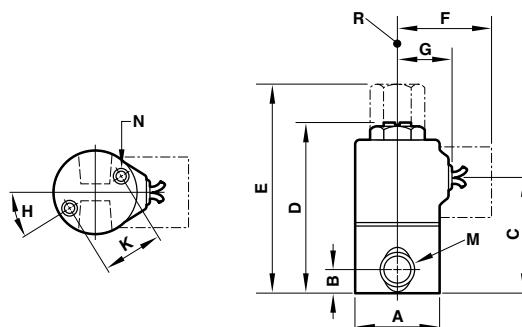
##### Materials

Body Material: See tables

Seal Materials: See tables

Internal Wetted Material:

430FR & 300 Series Cres



Dimensions in inches (mm)

#### Dimensions

A	B	C	D	E	F	G	H	K	M	N	R
1.18 (30)	.355 (9)	1.65 (42)	2.46 (62)	2.80 (71)	1.19 (30)	.78 (20)	41° 0°	.91 (23)	1/4-18 NPTF	#10-32 UNF x 1/4 MFT #8-32 UNC x 1/4 MFT	1/8-27 NPTF or 1/4-18 NPTF

- In stock
- ◆ Ships within one week

**Series 3 valves 1/4" NPT port, 2-way Normally closed**

Part number	Port NPT	Function	Orifice Body	MOPD*	Body material	Housing type	Seal material	Voltage
U352114-02-120-60	◆ 1/4"	2WNC	3/32"	250	Brass	1/2" NPT Conduit	Fluorocarbon	120 AC
U352014-12VDC	◆ 1/4"	2WNC	3/32"	250	Stainless Steel	1/2" NPT Conduit	Buna	12 DC
U353014-0151-24VDC	◆ 1/4"	2WNC	3/32"	250	Stainless Steel	Yoke	Buna	24 DC
U353114-0151-120-60	◆ 1/4"	2WNC	3/32"	250	Brass	Yoke	Buna	120 AC
U352115-120-60	◆ 1/4"	2WNC	1/8"	150	Brass	1/2" NPT Conduit	Buna	120 AC
U352115-12VDC	◆ 1/4"	2WNC	1/8"	150	Brass	1/2" NPT Conduit	Buna	12 DC
U359015-0151-12VDC	◆ 1/4"	2WNC	1/8"	150	Stainless Steel	Slotted	Buna	12 DC
U353115-0151-12VDC	◆ 1/4"	2WNC	1/8"	150	Brass	Yoke	Buna	12 DC
U353015-0151-24VDC	◆ 1/4"	2WNC	1/8"	150	Stainless Steel	Yoke	Buna	24 DC
U353115-0151-24VDC	◆ 1/4"	2WNC	1/8"	150	Brass	Yoke	Buna	24 DC
U353015-0151-120-60	◆ 1/4"	2WNC	1/8"	150	Stainless Steel	Yoke	Buna	120 AC
U353115-0151-120-60	◆ 1/4"	2WNC	1/8"	150	Brass	Yoke	Buna	120 AC
U353115-0251-120-60	◆ 1/4"	2WNC	1/8"	150	Brass	Yoke	Fluorocarbon	120 AC
U352016-02-120-60	◆ 1/4"	2WNC	5/32"	100	Stainless Steel	1/2" NPT Conduit	Fluorocarbon	120 AC
U352016-120-60	◆ 1/4"	2WNC	5/32"	100	Stainless Steel	1/2" NPT Conduit	Buna	120 AC
U352016-02-24VDC	◆ 1/4"	2WNC	5/32"	100	Stainless Steel	1/2" NPT Conduit	Fluorocarbon	24 DC
U352016-13-120-60	◆ 1/4"	2WNC	5/32"	100	Stainless Steel	1/2" NPT Conduit	EPR	120 AC
U352116-02-120-60	◆ 1/4"	2WNC	5/32"	100	Brass	1/2" NPT Conduit	Fluorocarbon	120 AC
U353116-0151-12VDC	◆ 1/4"	2WNC	5/32"	100	Brass	Yoke	Buna	12 DC
U353016-1351-24VDC	◆ 1/4"	2WNC	5/32"	100	Stainless Steel	Yoke	EPR	24 DC
U353116-0151-120-60	◆ 1/4"	2WNC	5/32"	100	Brass	Yoke	Buna	120 AC
U352017-120-60	◆ 1/4"	2WNC	3/16"	40	Stainless Steel	1/2" NPT Conduit	Buna	120 AC
U352017-24VDC	◆ 1/4"	2WNC	3/16"	40	Stainless Steel	1/2" NPT Conduit	Buna	24 DC
U352018-120-60	◆ 1/4"	2WNC	1/4"	15	Stainless Steel	1/2" NPT Conduit	Buna	120 AC
U352118-120-60	◆ 1/4"	2WNC	1/4"	15	Brass	1/2" NPT Conduit	Buna	120 AC
U353018-1351-12VDC	◆ 1/4"	2WNC	1/4"	15	Stainless Steel	Yoke	EPR	12 DC
U353018-0151-24VDC	◆ 1/4"	2WNC	1/4"	15	Stainless Steel	Yoke	Buna	24 DC
U353018-1351-24VDC	◆ 1/4"	2WNC	1/4"	15	Stainless Steel	Yoke	EPR	24 DC
U353118-0151-120-60	◆ 1/4"	2WNC	1/4"	15	Brass	Yoke	Buna	120 AC

**Series 3 valves 1/4" NPT port, 3-way Multi-position**

Part number	Port NPT	Function	Orifice Body	MOPD*	Body material	Housing type	Seal material	Voltage
U352164-02-24VDC	◆ 1/4"	3WMP	3/32"	50	Brass	1/2" NPT Conduit	Fluorocarbon	24 DC
U352165-120-60	◆ 1/4"	3WMP	1/8"	25	Brass	1/2" NPT Conduit	Buna	120 AC
U353165-0151-24VDC	◆ 1/4"	3WMP	1/8"	25	Brass	Yoke	Buna	24 DC
U353166-0251-24VDC	◆ 1/4"	3WMP	5/32"	15	Brass	Yoke	Fluorocarbon	24 DC
U353068-0151-24VDC	◆ 1/4"	3WMP	1/4"	5	Stainless Steel	Yoke	Buna	24 DC
U353068-1351-24VDC	◆ 1/4"	3WMP	1/4"	5	Stainless Steel	Yoke	EPR	24 DC

**Series 3 valves 1/4" NPT port, 3-way Normally closed**

Part number	Port NPT	Function	Orifice Body	MOPD*	Body material	Housing type	Seal material	Voltage
U352037-120-60	◆ 1/4"	3WNC	3/16"	10	Stainless Steel	1/2" NPT Conduit	Buna	120 AC
U359138-0151-12VDC	◆ 1/4"	3WNC	1/4"	5	Brass	Slotted	Buna	12 DC
U359138-0151-24VDC	◆ 1/4"	3WNC	1/4"	5	Brass	Slotted	Buna	24 DC

**Series 3 valves 1/4" NPT port, 3-way Normally open**

Part number	Port NPT	Function	Orifice Body	MOPD*	Body material	Housing type	Seal material	Voltage
U352054-24VDC	◆ 1/4"	3WNO	3/32"	75	Stainless Steel	1/2" NPT Conduit	Buna	24 DC
U352154-02-24VDC	◆ 1/4"	3WNO	3/32"	75	Brass	1/2" NPT Conduit	Fluorocarbon	24 DC
U359055-0251-24VDC	◆ 1/4"	3WNO	1/8"	60	Stainless Steel	Slotted	Fluorocarbon	24 DC

\*MOPD - Maximum operating pressure differential between in and out ports

- In stock
- ◆ Ships within one week

2-way and 3-way valves for neutral gases, liquids, and vacuum

Fluorocarbon seals for wider fluid compatibility.

Wide pressure range to meet your challenging applications

UL Listed

### Technical data

#### Medium

Solenoid valve for air, water, and other neutral fluids

#### Operating Temperature

32°F to 104°F  
(at 100% duty cycle)

#### Connection Type

1/4" NPT

#### Response Time (On)

9-16 ms Typical

#### Mass

1.1 lbs (.5 kg) Typical

#### Wattage

10W

#### Approvals

UL and CSA listed

#### Housing

Grommet

#### Coil Type

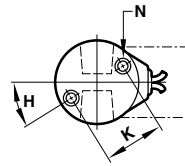
Molded with leads

#### Materials

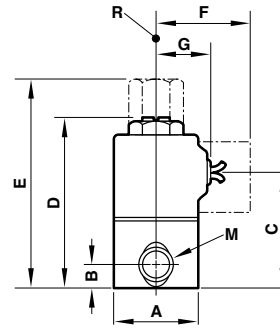
Body Material: Stainless Steel

Seal Materials: Fluorocarbon

Internal Wetted Material: 430FR & 300 Series Cres



Dimensions in inches (mm)



### Dimensions

A	B	C	D	E	F	G	H	K	M	N	R
1.62 (41)	.344 (9)	G-2.04 (52) C-1.87 (48)	2.86 (73)	3.54 (90)	1.58 (40)	1.03 (26)	45°	1.24 (31)	1/8-27 NPTF or 1/4-18 NPTF	#10-32 UNF x 5/16 MFT	1/8-27 NPTF or 1/4-18 NPTF

### Series 6 valves, 1/4" NPT port, 2-way Normally closed

Part number	Port NPT	Function	Orifice Body	Orifice Stop	CV Body	CV Stop	MOPD*	Voltage
U651010-0241-120-60	1/4"	2WNC	1/32"	NA	0.035	NA	1200	120/60 VAC
U651010-0241-12VDC	1/4"	2WNC	1/32"	NA	0.035	NA	1200	12 VDC
U651010-0241-24VDC	1/4"	2WNC	1/32"	NA	0.035	NA	1200	24 VDC
U651012-0241-120-60	1/4"	2WNC	1/16"	NA	0.095	NA	500	120/60 VAC
U651012-0241-12VDC	1/4"	2WNC	1/16"	NA	0.095	NA	500	12 VDC
U651012-0241-24VDC	1/4"	2WNC	1/16"	NA	0.095	NA	500	24 VDC
U651014-0241-120-60	1/4"	2WNC	3/32"	NA	0.2	NA	200	120/60 VAC
U651014-0241-12VDC	1/4"	2WNC	3/32"	NA	0.2	NA	200	12 VDC
U651014-0241-24VDC	1/4"	2WNC	3/32"	NA	0.2	NA	200	24 VDC
U651015-0241-120-60	1/4"	2WNC	1/8"	NA	0.295	NA	150	120/60 VAC
U651015-0241-12VDC	1/4"	2WNC	1/8"	NA	0.295	NA	150	12 VDC
U651015-0241-24VDC	1/4"	2WNC	1/8"	NA	0.295	NA	150	24 VDC
U651016-0241-120-60	1/4"	2WNC	5/32"	NA	0.37	NA	110	120/60 VAC
U651016-0241-12VDC	1/4"	2WNC	5/32"	NA	0.37	NA	110	12 VDC
U651016-0241-24VDC	1/4"	2WNC	5/32"	NA	0.37	NA	110	24 VDC
U651018-0241-120-60	1/4"	2WNC	1/4"	NA	0.61	NA	30	120/60 VAC
U651018-0241-12VDC	1/4"	2WNC	1/4"	NA	0.61	NA	30	12 VDC
U651018-0241-24VDC	1/4"	2WNC	1/4"	NA	0.61	NA	30	24 VDC

\*MOPD - Maximum operating pressure differential between in and out ports

● In stock

◆ Ships within one week



## Series 6 valves, 1/4" NPT port, 2-way Normally open

Part number	Port NPT	Function	Orifice Body	Orifice Stop	CV Body	CV Stop	MOPD*	Voltage
U651020-0241-120-60 ◆	1/4"	2WNO	1/32"	NA	0.035	NA	1000	120/60 VAC
U651020-0241-12VDC ◆	1/4"	2WNO	1/32"	NA	0.035	NA	1000	12 VDC
U651020-0241-24VDC ◆	1/4"	2WNO	1/32"	NA	0.035	NA	1000	24 VDC
U651022-0241-120-60 ◆	1/4"	2WNO	1/16"	NA	0.095	NA	350	120/60 VAC
U651022-0241-12VDC ◆	1/4"	2WNO	1/16"	NA	0.095	NA	350	12 VDC
U651022-0241-24VDC ◆	1/4"	2WNO	1/16"	NA	0.095	NA	350	24 VDC
U651024-0241-120-60 ◆	1/4"	2WNO	3/32"	NA	0.2	NA	175	120/60 VAC
U651024-0241-12VDC ◆	1/4"	2WNO	3/32"	NA	0.2	NA	175	12 VDC
U651024-0241-24VDC ◆	1/4"	2WNO	3/32"	NA	0.2	NA	175	24 VDC
U651025-0241-120-60 ◆	1/4"	2WNO	1/8"	NA	0.295	NA	100	120/60 VAC
U651025-0241-12VDC ◆	1/4"	2WNO	1/8"	NA	0.295	NA	100	12 VDC
U651025-0241-24VDC ◆	1/4"	2WNO	1/8"	NA	0.295	NA	100	24 VDC

## Series 6 valves, 1/4" NPT port, 3-way Normally closed

Part number	Port NPT	Function	Orifice Body	Orifice Stop	CV Body	CV Stop	MOPD*	Voltage
U651040-0241-120-60 ◆	1/4"	3WNC	1/32"	1/32"	0.035	0.025	300	120/60 VAC
U651040-0241-12VDC ◆	1/4"	3WNC	1/32"	1/32"	0.035	0.025	300	12 VDC
U651040-0241-24VDC ◆	1/4"	3WNC	1/32"	1/32"	0.035	0.025	300	24 VDC
U651042-0241-120-60 ◆	1/4"	3WNC	1/16"	1/16"	0.09	0.115	200	120/60 VAC
U651042-0241-12VDC ◆	1/4"	3WNC	1/16"	1/16"	0.09	0.115	200	12 VDC
U651042-0241-24VDC ◆	1/4"	3WNC	1/16"	1/16"	0.09	0.115	200	24 VDC
U651044-0241-120-60 ◆	1/4"	3WNC	3/32"	3/32"	0.18	0.21	125	120/60 VAC
U651044-0241-12VDC ◆	1/4"	3WNC	3/32"	3/32"	0.18	0.21	125	12 VDC
U651044-0241-24VDC ◆	1/4"	3WNC	3/32"	3/32"	0.18	0.21	125	24 VDC
U651046-0241-120-60 ◆	1/4"	3WNC	5/32"	1/8"	0.37	0.24	50	120/60 VAC
U651046-0241-12VDC ◆	1/4"	3WNC	5/32"	1/8"	0.37	0.24	50	12 VDC
U651046-0241-24VDC ◆	1/4"	3WNC	5/32"	1/8"	0.37	0.24	50	24 VDC
U651048-0241-120-60 ◆	1/4"	3WNC	1/4"	1/8"	0.65	0.24	15	120/60 VAC
U651048-0241-12VDC ◆	1/4"	3WNC	1/4"	1/8"	0.65	0.24	15	12 VDC
U651048-0241-24VDC ◆	1/4"	3WNC	1/4"	1/8"	0.65	0.24	15	24 VDC

## Series 6 valves, 1/4" NPT port, 3-way Multi-position

Part number	Port NPT	Function	Orifice Body	Orifice Stop	CV Body	CV Stop	MOPD*	Voltage
U651060-0241-120-60 ◆	1/4"	3WMP	1/32"	1/32"	0.035	0.025	275	120/60 VAC
U651060-0241-12VDC ◆	1/4"	3WMP	1/32"	1/32"	0.035	0.025	275	12 VDC
U651060-0241-24VDC ◆	1/4"	3WMP	1/32"	1/32"	0.035	0.025	275	24 VDC
U651064-0241-120-60 ◆	1/4"	3WMP	3/32"	3/32"	0.18	0.21	100	120/60 VAC
U651064-0241-12VDC ◆	1/4"	3WMP	3/32"	3/32"	0.18	0.21	100	12 VDC
U651064-0241-24VDC ◆	1/4"	3WMP	3/32"	3/32"	0.18	0.21	100	24 VDC
U651065-0241-120-60 ◆	1/4"	3WMP	1/8"	1/8"	0.75	0.24	60	120/60 VAC
U651065-0241-12VDC ◆	1/4"	3WMP	1/8"	1/8"	0.75	0.24	60	12 VDC
U651065-0241-24VDC ◆	1/4"	3WMP	1/8"	1/8"	0.75	0.24	60	24 VDC
U651066-0241-120-60 ◆	1/4"	3WMP	5/32"	1/8"	0.37	0.24	40	120/60 VAC
U651066-0241-12VDC ◆	1/4"	3WMP	5/32"	1/8"	0.37	0.24	40	12 VDC
U651066-0241-24VDC ◆	1/4"	3WMP	5/32"	1/8"	0.37	0.24	40	24 VDC
U651068-0241-120-60 ◆	1/4"	3WMP	1/4"	1/8"	0.65	0.24	15	120/60 VAC
U651068-0241-12VDC ◆	1/4"	3WMP	1/4"	1/8"	0.65	0.24	15	12 VDC
U651068-0241-24VDC ◆	1/4"	3WMP	1/4"	1/8"	0.65	0.24	15	24 VDC

\*MOPD - Maximum operating pressure differential between in and out ports

- In stock
- ◆ Ships within one week

Ideally suited for the control of liquid, air or vacuum

Compact low watt solution without sacrificing performance

Available in 2 and 3-way configurations

Nickel plated housing for a durable, corrosion resistant package



### Technical data

#### Medium

For liquid, air, water, or vacuum

#### Operating Temperature

32°F to 104°F (at 100% duty cycle)

#### Wattage

0.65W

#### Coil Type

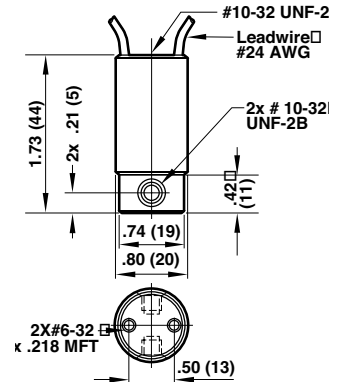
12" long #24 AWG electrical leads

#### Materials

Body Material options: brass & stainless steel

Seal Materials: see product details in table below

Internal Wetted Material: PPS and Stainless Steel



#### Series 9 valves 10-32 UNF port, 2-way Normally closed

Part Number	Port	Function	Orifice size	MOPD*	Body material	Seal Material	Voltage
971012-02-24VDC	10-32 UNF	2WNC	1/16"	100	Stainless steel	Fluorocarbon	24 DC
971012-12VDC	10-32 UNF	2WNC	1/16"	100	Stainless steel	Buna	12 DC
971012-13-12VDC	10-32 UNF	2WNC	1/16"	100	Stainless steel	EPR	12 DC
971012-13-24VDC	10-32 UNF	2WNC	1/16"	100	Stainless steel	EPR	24 DC
971112-02-12VDC	10-32 UNF	2WNC	1/16"	100	Brass	Fluorocarbon	12 DC
971112-12VDC	10-32 UNF	2WNC	1/16"	100	Brass	Buna	12 DC
971112-24VDC	10-32 UNF	2WNC	1/16"	100	Brass	Buna	24 DC

#### Series 9 valves 10-32 UNF port, 2-way Normally open

Part Number	Port	Function	Orifice size	MOPD*	Body material	Seal Material	Voltage
971022-02-24VDC	10-32 UNF	2WNO	1/16"	90	Stainless steel	Fluorocarbon	24 DC
971022-12VDC	10-32 UNF	2WNO	1/16"	90	Stainless steel	Buna	12 DC
971022-24VDC	10-32 UNF	2WNO	1/16"	90	Stainless steel	Buna	24 DC
971122-12VDC	10-32 UNF	2WNO	1/16"	90	Brass	Buna	12 DC
971122-24VDC	10-32 UNF	2WNO	1/16"	90	Brass	Buna	24 DC

#### Series 9 valves 10-32 UNF port, 3-way Multi-position

Part Number	Port	Function	Orifice size	MOPD*	Body material	Seal Material	Voltage
971062-02-24VDC	10-32 UNF	3WMP	1/16"	40	Stainless steel	Fluorocarbon	24DC
971062-12VDC	10-32 UNF	3WMP	1/16"	40	Stainless steel	Buna	12DC
971162-12VDC	10-32 UNF	3WMP	1/16"	40	Brass	Buna	12DC
971162-13-24VDC	10-32 UNF	3WMP	1/16"	40	Brass	EPR	24DC
971162-24VDC	10-32 UNF	3WMP	1/16"	40	Brass	Buna	24DC

#### Series 9 valves 10-32 UNF port, 3-way Normally closed

Part Number	Port	Function	Orifice size	MOPD*	Body material	Seal Material	Voltage
971042-12VDC	10-32 UNF	3WNC	1/16"	80	Stainless steel	Buna	12 DC
971042-13-24VDC	10-32 UNF	3WNC	1/16"	80	Stainless steel	EPR	24 DC
971042-24VDC	10-32 UNF	3WNC	1/16"	80	Stainless steel	Buna	24 DC
971142-12VDC	10-32 UNF	3WNC	1/16"	80	Brass	Buna	12 DC

#### Series 9 Valves 10-32 UNF port, 3-way Normally closed

Part Number	Port	Function	Orifice size	MOPD*	Body material	Seal Material	Voltage
971052-12VDC	10-32 UNF	3WNO	1/16"	60	Stainless steel	Buna	12 DC
971052-24VDC	10-32 UNF	3WNO	1/16"	60	Stainless steel	Buna	24 DC

\*MOPD - Maximum operating pressure differential between in and out ports

- In stock
- ◆ Ships within one week

**Q2 Quick-Connect Plastic Body Valve**  
 Durable, lightweight plastic body  
 Quick push-to-connect fittings  
 NSF and cURus (UL and CSA) Certified  
 Minimal Pressure drop



**Technical data**

**Power rating**

10 Watt

**Temperature rating**

-10°F to 100°F (-23°C to 37°C)

**Housing**


Yoke

**Coil**

1/4" top spade



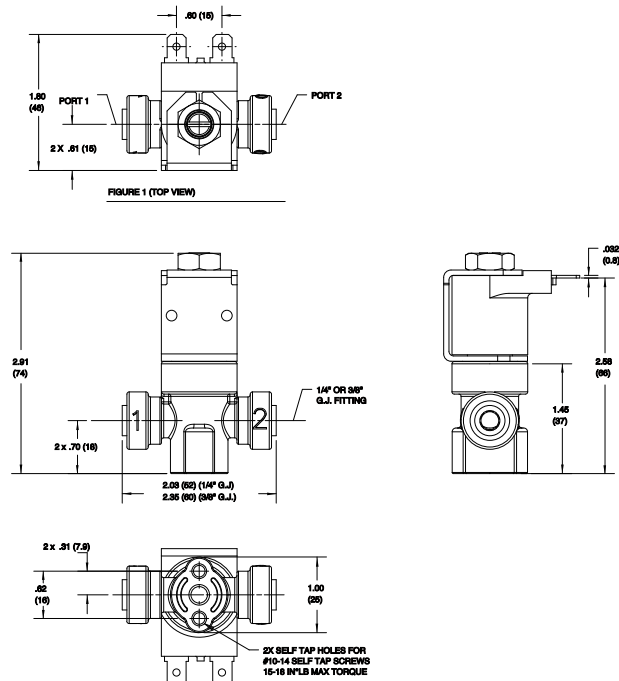
**Standard Valves**

Part Number	Orifice Diameter body inch	Seal Material	Porting inch	Cv factor body	MOPD*	Voltage
 <b>Q212315-1351B-D</b> ◆	1/8	Food-Grade EPR**	1/4	0.228	120	24 VDC
<b>Q212315-1351B-G</b> ◆	1/8	Food-Grade EPR**	1/4	0.228	120	120/60 VAC
<b>Q213318-1351B-D</b> ◆	3/16	Food-Grade EPR**	1/4	0.367	80	24 VDC
<b>Q213318-1351B-G</b> ◆	3/16	Food-Grade EPR**	1/4	0.367	80	120/60 VAC

\*MOPD - Maximum operating pressure differential between in and out ports

\*\* Food-Grade EPR seals are NSF approved

Dimensions in inches (mm)



- In stock
- ◆ Ships within one week

**For neutral gases and liquids**  
**Solenoid actuated, with forced lifting**  
**Diaphragm valves**  
**Internal thread 3/8" NPT to 1" NPT**

### Technical data

#### Medium

Solenoid valve for air, water, and other neutral fluids

#### Operating pressure

0 to 232 psi (0 to 16 bar)

#### Switching function

Normally closed

#### Flow direction

Determined

#### Fluid temperature

14°F up to max. 194°F  
 (-10 °C up to max. +90 °C)

#### Ambient temperature

14°F up to max. 122°F  
 (-10 °C up to max. +50 °C)

#### Mounting position

As required, preferably with solenoid vertical on top

#### Material

Body: Brass

Seat seal: NBR

Internal parts: Stainless steel,  
 PVDF, Brass

For contaminated fluids the use of a strainer upstream of the valve is recommended.

#### Features

High flow rate

For robust industry applications

Damped operation

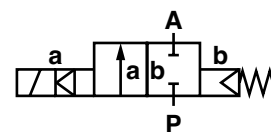
Suitable for vacuum

For systems with low or fluctuating pressure


Valve operates without differential pressure (Zero Delta P)

Solenoid interchangeable without tools (Click-on®)

**Click-on®**  
 Solenoid interchangeable without tools



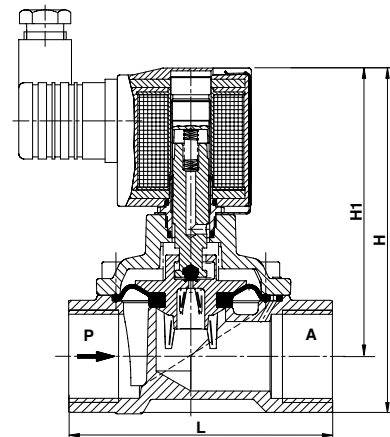
### Standard Models

Model	Connection	Orifice (inch)	Cv-Value	Voltage
 8264100.9151.02400	3/8"	0.4	3.5	24 VDC
8264100.9151.12060	3/8"	0.4	3.5	120/60 VAC
8264200.9151.02400	1/2"	0.5	3.9	24 VDC
8264200.9151.12060	1/2"	0.5	3.9	120/60 VAC
8264300.9151.02400	3/4"	0.8	6.7	24 VDC
8264300.9151.12060	3/4"	0.8	6.7	120/60 VAC
8264400.9151.02400	1"	1	9.2	24 VDC
8264400.9151.12060	1"	1	9.2	120/60 VAC

Dimensions in inches

Connection size NPT	L Inches	B* Inches	H Inches	H1 Inches
3/8	2.36	1.73	4.09	3.64
1/2	2.64	1.73	4.25	3.72
3/4	3.15	1.97	4.53	3.90
1	3.74	2.44	4.88	4.07

\* B = maximum width



- In stock
- ◆ Ships within one week

**High flow rate**  
**Damped operation**  
**Solenoid interchangeable without tools**  
**(Click-on®)**  
**Suitable as a water valve according to**  
**DIN EN 60730-2-8**

**Technical data**

**Medium**

For neutral gases and liquids

**Operating pressure**

1.45 to 232 psi (0.1 to 16 bar)

**Switching function**

Normally closed

**Flow direction**

Determined

**Fluid temperature**

14°F up to max. 194°F  
 (-10 °C up to max. +90 °C)

**Ambient temperature**

14°F up to max. 122°F  
 (-10 °C up to max. +50 °C)

**Mounting position**

As required, preferably with solenoid vertical on top

**Material**

Body: Brass, PA 66


Seat seal: NBR

Internal parts: Stainless steel, PVDF

Note: For contaminated fluids the use of a strainer upstream of the valve is recommended.

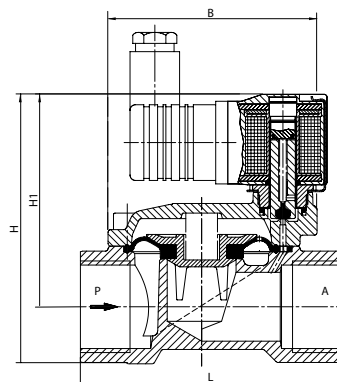


**Standard Models**

Model	Connection	Orifice (inch)	Cv-Value	Voltage
				
8241100.9101.02400 ◆	3/8"	0.4	3.5	24 VDC
8241100.9101.12060 ◆	3/8"	0.4	3.5	120 VAC
8241200.9101.02400 ◆	1/2"	0.5	4.4	24 VDC
8241200.9101.12060 ◆	1/2"	0.5	4.4	120 VAC
8241300.9101.02400 ◆	3/4"	0.8	6.9	24 VDC
8241300.9101.12060 ◆	3/4"	0.8	6.9	120 VAC
8241400.9101.02400 ◆	1"	1.0	10.9	24 VDC
8241400.9101.12060 ◆	1"	1.0	10.9	120 VAC

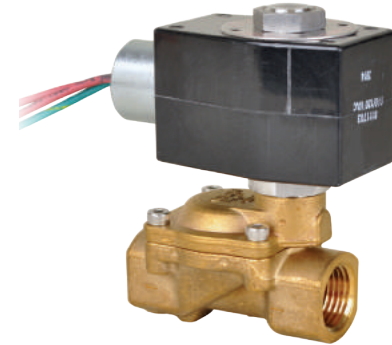
Dimensions in inches

Connection size NPT	L	B	H	H1
3/8	2.36	1.73	3.09	2.64
1/2	2.64	1.73	3.19	2.64
3/4	3.15	1.97	3.46	2.81
1	3.74	2.44	3.84	3.03



- In stock
- ◆ Ships within one week

**Pilot operated solenoid valve**  
**Hazardous location coil enclosure**  
**High flow rate**  
**Damped operation**  
**Compact design**



### Technical data

**Medium:**

Neutral gases and liquids

**Function:**

Normally closed

**Flow direction:**

Determined

**Mounting position:**

As required. Preferably with solenoid vertical on top.

**Electrical connection:**

Stranded wire 18" long, (ground is green wire) threaded pipe 1/2"-14 NPT

**Operating pressure:**

1.45 to 232 psi  
 .1 to 16 bar

**Minimum differential pressure:**

1.45 psi required (NBR & FKM)  
 4.35 psi required (EPDM)

**Fluid temperature:**

14°F to 176°F  
 -10°C to 80°C

**Ambient temperature:**

14°F to 122°F  
 -10°C to 50°C

**Protection class:**

ANSI/NEMA 1, 3, 4,  
 4X, 6, 6P, 7, and 9

FM – File No. 2Z2A6.AE

CSA – File No. LR 57643-6

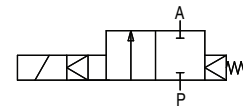
**Materials:**

Valve cover and body: Brass


Seat seal: NBR

Internal parts:

Stainless steel, PVDF, copper

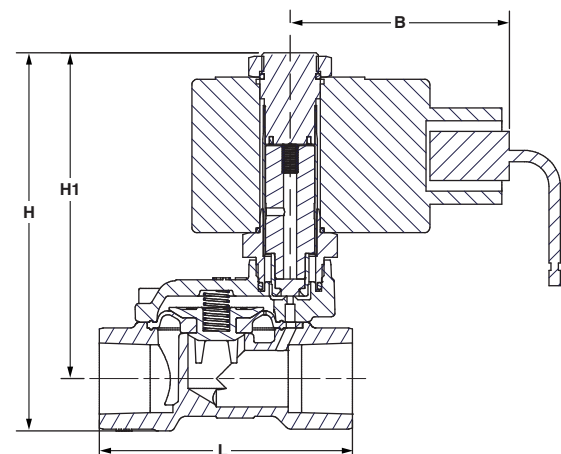


### Standard Models

Model	Connection	Orifice (inch)	Cv-Value	Voltage
				
8241100.3826.02400 ◆	3/8"	0.4	3.5	24 VDC
8241100.3827.12060 ◆	3/8"	0.4	3.5	120/60 VAC
8241200.3826.02400 ◆	1/2"	0.5	4.4	24 VDC
8241200.3827.12060 ◆	1/2"	0.5	4.4	120/60 VAC
8241300.3826.02400 ◆	3/4"	0.8	6.9	24 VDC
8241300.3827.12060 ◆	3/4"	0.8	6.9	120/60 VAC
8241400.3826.02400 ◆	1"	1	10.9	24 VDC
8241400.3827.12060 ◆	1"	1	10.9	120/60 VAC

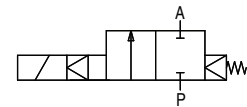
### Valve with solenoid

Connection NPT Inch	L Inch	B Inch	H Inch	H1 Inch	Weight lbs.
3/8	2.36	2.36	3.84	3.39	.99
1/2	2.64	2.36	3.93	3.39	1.10
3/4	3.15	2.36	4.19	3.54	1.43
1	3.74	2.36	4.58	3.77	2.09



- In stock
- ◆ Ships within one week

- Direct lift solenoid valve
- Hazardous location coil enclosure
- Damped operation
- Compact design
- High flow rate



**Technical data**

**Medium:**  
Neutral gases and liquids

**Function:**  
Normally closed

**Flow direction:**  
Determined

**Mounting position:**  
As required. Preferably with solenoid vertical on top.

**Electrical connection:**  
3 wire-18" leads,  
(ground is green wire)  
threaded pipe 1/2"-14 NPT

**Operating pressure:**  
0 to 145 psi  
0 to 10 bar

**Minimum differential pressure:**  
0 psi required


**Fluid temperature:**  
14°F to 176°F  
-10°C to 80°C

**Ambient temperature:**  
14°F to 122°F  
-10°C to 50°C

**Protection class:**  
ANSI/NEMA 1, 3, 4,  
4X, 6, 6P, 7, and 9  
FM – File No. 2Z2A6.AE  
CSA – File No. LR 57643-6

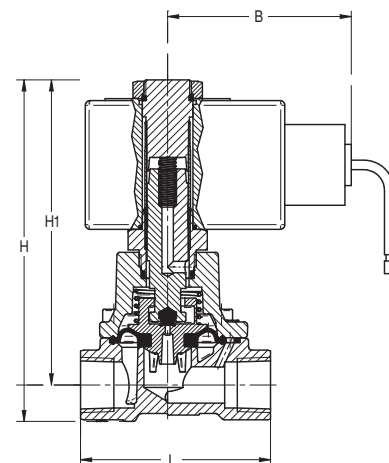
**Materials:**  
Valve cover and body: Brass  
Seat seal: NBR  
Internal parts:  
Stainless steel, PVDF

**Standard Models**

Model	Connection	Orifice (inch)	Cv-Value	Voltage
 8264100.3826.02400 ◆	3/8"	0.4	3.5	24 VDC
8264100.3827.12060 ◆	3/8"	0.4	3.5	120/60 VAC
8264200.3826.02400 ◆	1/2"	0.5	3.9	24 VDC
8264200.3827.12060 ◆	1/2"	0.5	3.9	120/60 VAC
8264300.3826.02400 ◆	3/4"	0.8	6.7	24 VDC
8264300.3827.12060 ◆	3/4"	0.8	6.7	120/60 VAC
8264400.3826.02400 ◆	1"	1	9.2	24 VDC
8264400.3827.12060 ◆	1"	1	9.2	120/60 VAC

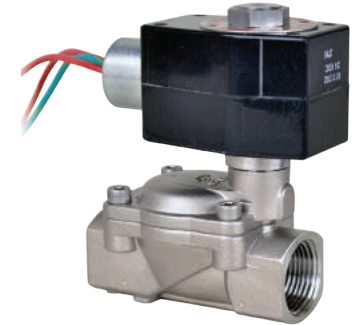
**Valve with solenoid**

Connection NPT Inch	L Inch	B Inch	H Inch	H1 Inch	Weight lbs.
3/8	2.36	2.36	4.23	3.78	1.84
1/2	2.64	2.36	4.33	3.78	2.05
3/4	3.15	2.36	4.63	3.98	2.27
1	3.74	2.36	4.95	4.13	2.94



- In stock
- ◆ Ships within one week

Pilot operated solenoid valve  
Hazardous location coil enclosure  
Damped operation  
Compact design  
High flow rate



### Technical data

#### Medium:

For slightly aggressive gases and liquids

#### Function:

Normally closed

#### Flow direction:

Determined

#### Mounting position:

As required. Preferably with solenoid vertical on top.

#### Electrical connection:

3 wire-18" leads,  
(ground is green wire)  
threaded pipe 1/2"-14 NPT

#### Operating pressure:

1.45 to 232 psi  
.1 to 16 bar

#### Minimum differential pressure:

1.45 psi required (NBR & FKM)  
4.35 psi required (EPDM)

#### Fluid temperature:

14°F to 176°F  
-10°C to 80°C

#### Ambient temperature:

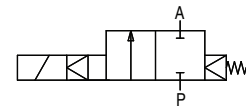
14°F to 122°F  
-10°C to 50°C

#### Protection class:


ANSI/NEMA 1, 3, 4,  
4X, 6, 6P, 7, and 9  
FM – File No. 2Z2A6.AE  
CSA – File No. LR 57643-6

#### Materials:

Valve cover and body:  
316 Stainless steel  
Seat seal: NBR  
Internal parts:  
Stainless steel, PVDF,  
copper

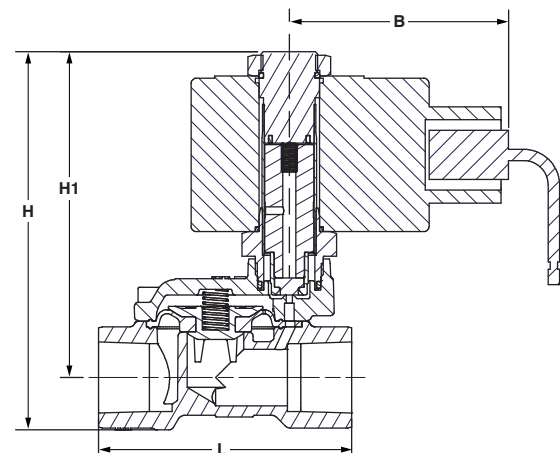


### Standard Models

Model	Connection	Orifice (inch)	Cv-Value	Voltage
 8274100.3826.02400 ◆	3/8"	0.4	3.5	24 VDC
8274100.3827.12060 ◆	3/8"	0.4	3.5	120/60 VAC
8274200.3826.02400 ◆	1/2"	0.5	4.4	24 VDC
8274200.3827.12060 ◆	1/2"	0.5	4.4	120/60 VAC
8274300.3826.02400 ◆	3/4"	0.8	6.9	24 VDC
8274300.3827.12060 ◆	3/4"	0.8	6.9	120/60 VAC
8274400.3826.02400 ◆	1"	1	10.9	24 VDC
8274400.3827.12060 ◆	1"	1	10.9	120/60 VAC

### Valve with solenoid

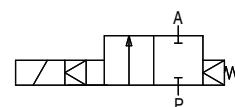
Connection NPT Inch	L Inch	B Inch	H Inch	H1 Inch	Weight lbs.
3/8	2.36	2.36	3.84	3.39	.99
1/2	2.64	2.36	3.93	3.39	1.10
3/4	3.15	2.36	4.19	3.54	1.43
1	3.74	2.36	4.58	3.77	2.09



- In stock
- ◆ Ships within one week



Direct lift solenoid valve  
Hazardous location coil enclosure  
Damped operation  
Compact design  
High flow rate



**Technical data**

**Medium:**  
For slightly aggressive gases and liquids

**Function:**  
Normally closed

**Flow direction:**  
Determined

**Mounting position:**  
As required. Preferably with solenoid vertical on top.

**Electrical connection:**  
3 wire-18" leads,  
(ground is green wire)  
threaded pipe 1/2"-14 NPT,

**Operating pressure:**  
0 to 145 psi  
0 to 10 bar

**Minimum differential pressure:**  
0 psi required


**Fluid temperature:**  
14°F to 176°F  
-10°C to 80°C

**Ambient temperature:**  
14°F to 122°F  
-10°C to 50°C

**Protection class:**  
ANSI/NEMA 1, 3, 4,  
4X, 6, 6P, 7, and 9  
FM – File No. 2Z2A6.AE  
CSA – File No. LR 57643-6

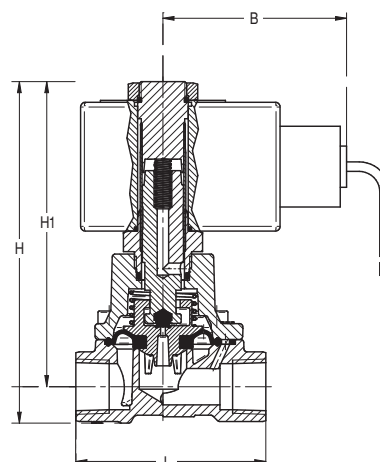
**Materials:**  
Valve cover and body:  
316 Stainless steel  
Seat seal: NBR  
Internal parts:  
Stainless steel, PVDF

**Standard Models**

Model	Connection	Orifice (inch)	Cv-Value	Voltage
				
8449100.3826.02400 ◆	3/8"	0.4	3.5	24 VDC
8449100.3827.12060 ◆	3/8"	0.4	3.5	120/60 VAC
8449200.3826.02400 ◆	1/2"	0.5	3.9	24 VDC
8449200.3827.12060 ◆	1/2"	0.5	3.9	120/60 VAC
8449300.3826.02400 ◆	3/4"	0.8	6.7	24 VDC
8449300.3827.12060 ◆	3/4"	0.8	6.7	120/60 VAC
8449400.3826.02400 ◆	1"	1	9.2	24 VDC
8449400.3827.12060 ◆	1"	1	9.2	120/60 VAC

**Valve with solenoid**

Connection NPT Inch	L Inch	B Inch	H Inch	H1 Inch	Weight lbs.
3/8	2.36	2.36	4.23	3.78	1.84
1/2	2.64	2.36	4.33	3.78	2.05
3/4	3.15	2.36	4.63	3.98	2.27
1	3.74	2.36	4.95	4.13	2.94



- In stock
- ◆ Ships within one week

**Simplified soft seal system, incorporating HERION's unique T-Seal**

**Low maintenance and easy to service**

**Compact construction**

**Many configurations - air return, spring return or double air operated**

**Universal flow**



### Technical data

#### Port Sizes

3/8" NPT

#### Fluid

Filtered air, lubricated or non-lubricated

#### Fluid Temperature

15°F to 105° F

#### Ambient Temperature

15°F to 140° F

#### Materials

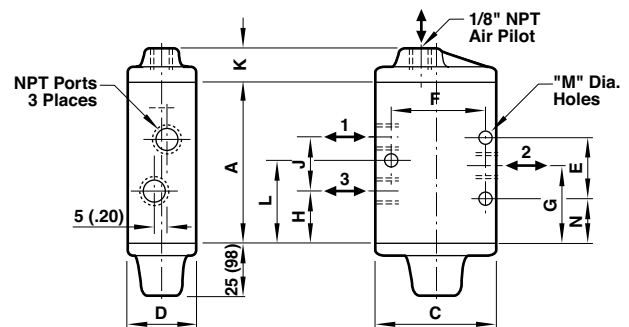
Housing: Clear anodized aluminum

Seals: BUNA-N

NOTE: Pilot pressure must be equal to or greater than system pressure.


Do not restrict exhaust port no. 3 on these valves.

Dimensions in inches (mm)



A	B	D	F	G	H	J	K	L	M	N
3.27	2.56	1.38	1.81	1.73	0.98	1.30	0.63	2.89	0.28	1.08

### Models -3/2 Air/Spring

Part number	Function	Actuation	Port size NPT	Flow	Operating pressure PSI	Pilot pressure PSI	Spare kit
 4022072000000000	3/2	Air/spring	3/8	2.6	Vac - 230	5 - 230	8110828000000000

● In stock

◆ Ships within one week

Noise reduction through integrated pilot valve silencer

High flow performance

Manual override standard on most models

Quick change of solenoids



**Technical data**

**Port Sizes**

1/4" and 3/8" NPT

**Fluid**

Filtered air, lubricated or non-lubricated

**Fluid Temperature**

15°F to 105°F

**Ambient Temperature**

15°F to 140°F

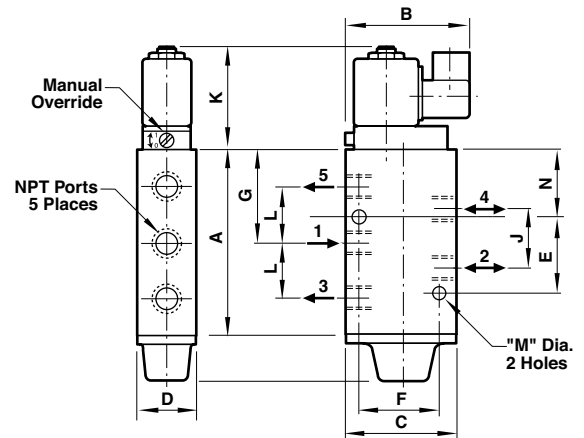
**Materials**

Housing

Clear anodized aluminum









Seals: BUNA N

Dimensions in inches (mm)



Port	A	B	C	D	E	F	G	J	K	L	M	N
1/4"	4.02	2.60	2.17	1.18	2.64	1.57	2.01	0.94	2.40	0.94	0.28	0.55

**Models -5/2 Solenoid/Air Spring**

Part number	Function	Actuation	Port size NPT	Flow Cv	Operating pressure PSI	Voltage	Connector type	Coil	Connector	Spare kit
										
2636070024702400	5/2	Sol/air spring	1/4	1.4	25-150	24 VDC	Cable Grip	000000024602400	0570275000000000	8110831000000000
2636070024712060	5/2	Sol/air spring	1/4	1.4	25-150	120 VAC	Cable Grip	000000024612060	0570275000000000	8110831000000000
										
2636070024602400	5/2	Sol/air spring	1/4	1.4	25-150	24 VDC	None	000000024602400	-	8110831000000000
2636070024612060	5/2	Sol/air spring	1/4	1.4	25-150	120 VAC	None	000000024612060	-	8110831000000000
										
2636070-0247N-D	5/2	Sol/air spring	1/4	1.4	25-150	24 VDC	1/2" NPT conduit	000000024602400	0661374000000000	8110831000000000
2636070-0247N-G	5/2	Sol/air spring	1/4	1.4	25-150	120 VAC	1/2" NPT conduit	000000024612060	0661374000000000	8110831000000000

- In stock
- ◆ Ships within one week

**Indirectly controlled soft seal  
spool valves****Solenoid actuated****Port size 1/4" NPT****NAMUR Interface****Technical data****Medium**Filtered, non-lubricated and dry  
compressed air\***Operation:**

Solenoid, indirectly controlled

**Mounting position:** as required**Flow direction:** Fixed

Nominal size:

Connection 1: 1/4" NPT

Connection 3 and 5: 1/8" NPT

**Temperatures:**

Valve: -13°F to 122°F

(-25 °C to +50 °C)

**Material**

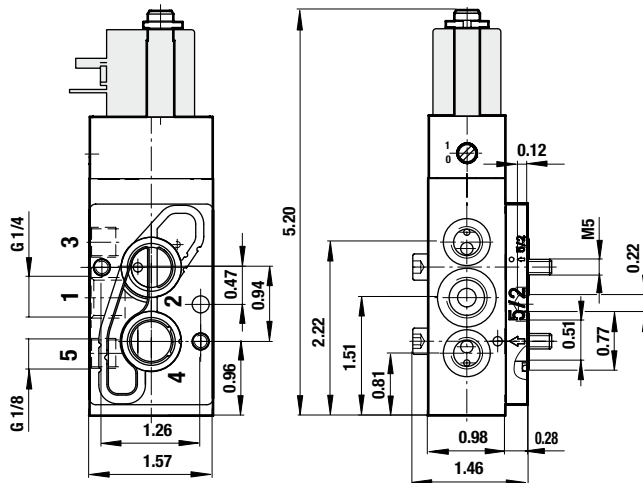
Body: Aluminium anodized





Pilot flange: PBT

Seals: NBR



Dimensions in inches (mm)

**Models -5/2 Solenoid/Solenoid**

Part number	Function	Actuation	Inlet port NPT	Exhaust port NPT	Outlet port	Flow Cv	Voltage	Body	Coil	Connector
	5/2	Sol/Sol	1/4	1/8	Flange	0.75	24 VDC			
9710010303612060	5/2	Sol/Sol	1/4	1/8	Flange	0.75	120/60 VAC	9710010000000000	0000000303612060	-
9710010-3037N-D	5/2	Sol/Sol	1/4	1/8	Flange	0.75	24 VDC	9710010000000000	0000000303602400	0661374000000000
9710010-3037N-G	5/2	Sol/Sol	1/4	1/8	Flange	0.75	120/60 VAC	9710010000000000	0000000303612060	0661374000000000

● In stock

◆ Ships within one week

**Inherently fail-safe without residual pressure**

**Dynamic self monitoring**

**Double valve control system**

**For use with pneumatic clutch and brake systems and other 3-way safety functions, such as monitored dump valve with feedback system**

**Poppet design with feedback signal ports**

**Fast exhaust capability**

**Meets the intent of Press Safety Standards - ANSI B11-1 2009; CSA Z142-10, BG692, OSHA Code 29 part 1910.217 (b) (7) (I and XI).**

**Conforms to ISO 13849-1 (performance level “e” category IV)**

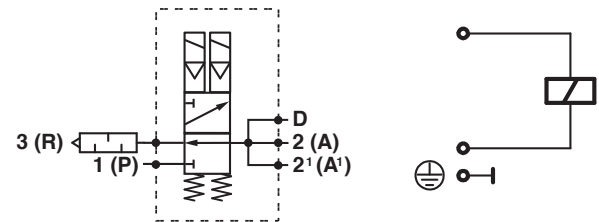
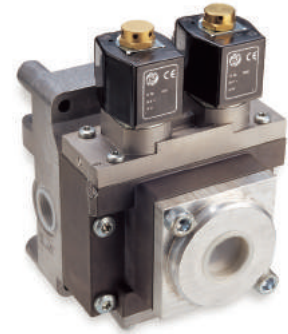
**Improves safety and reduces downtime**

**Quick and easy adjustment of ‘overlap’ on mechanical presses**

**No additional electrical monitoring required**

**Easily fitted into existing systems**

**Norgren-Herion XSz safety valves are also available in 5-port configuration**



**Technical data**

**Medium**

Compressed air, filtered, lubricated or non-lubricated  
Shell Hydrol DO 32, Esso Febis K 32 (as of July 1992) or comparable oil with DVI values < 8 (DIN 53521) and ISO viscosity class 32-46 (DIN 51519), Filtration 25 - 50 mm

**Operating Pressure:**

29 to 145 psig (2 to 10 bar)

**Temperature range:**

14°F to 140°F (-10 to 60°C)

To secure the safety function of the valve at subzero temperatures it is important that the air is dry enough to prevent an icing of valve and silencer.

**Mounting position:**

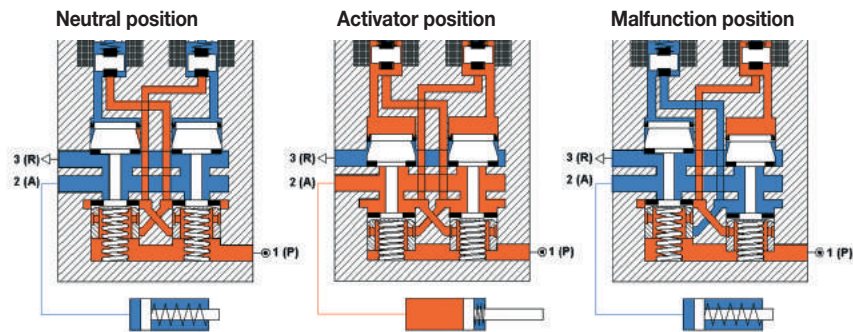
Preferably vertically

**Additional equipment:**

- Soft clutch module
- Soft brake module
- Safety silencer
- Failure indication elements
- Nozzle for overlap adjustment (exclusively XSz32 and 50)

**Materials:**
















- Body: aluminium
- Seals: polyurethane (AU), NBR
- Materials: Body: aluminium
- Seals: polyurethane (AU), NBR



P = Air pressure port. A = Power port (clutch / brake). R = Exhaust



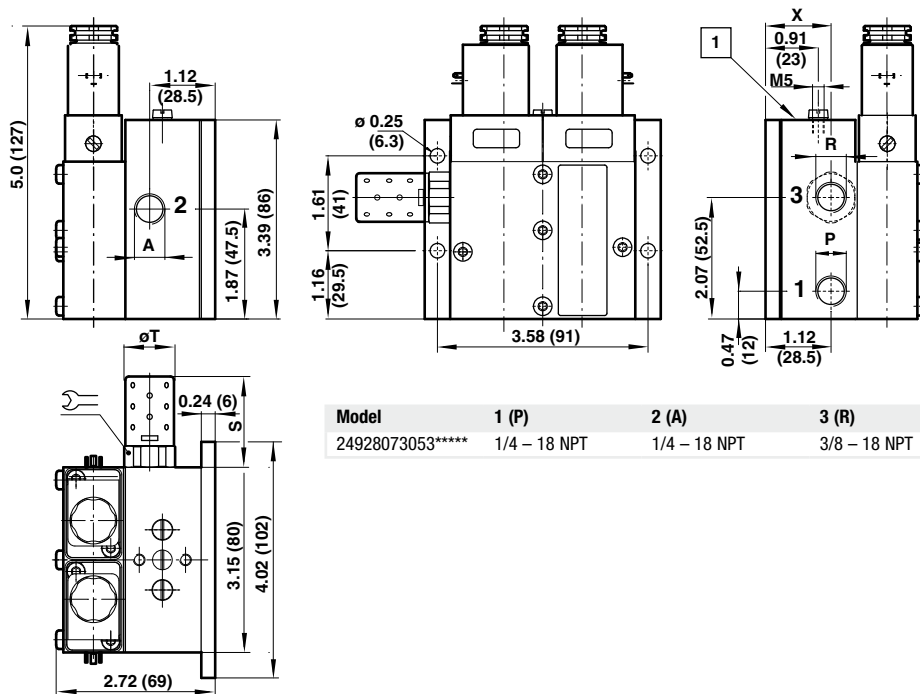
- In stock
- ◆ Ships within one week

Model	Voltage	Type	Port Size			Coil	Connector
			1 (P)	2 (A)	3 (R)		
							
2492807305312060 ●	120 VAC	XSz-8	1/4"	1/4"	3/8"	0000000305212060 ●	6800030000000000 ●
2492807305302400 ●	24 VDC	XSz-8	1/4"	1/4"	3/8"	0000000305202400 ●	6800030000000000 ●
							
2492931305312060 ●	120 VAC	XSz-10	1/2"	1/2"	3/4"	0000000305212060 ●	6800030000000000 ●
2492931305302400 ●	24 VDC	XSz-10	1/2"	1/2"	3/4"	0000000305202400 ●	6800030000000000 ●
							
2493039020112060 ●	120 VAC	XSz-20	3/4"	3/4"	1"	000000020012060 ●	5702750000000000 ●
2493039020102400 ●	24 VDC	XSz-20	3/4"	3/4"	1"	000000020002400 ●	5702750000000000 ●
							
2493120080112060 ●	120 VAC	XSz-32	1"	1"	1-1/2"	000000080012060 ●	5702750000000000 ●
2493120080102400 ●	24 VDC	XSz-32	1"	1"	1-1/2"	000000080002400 ●	5702750000000000 ●
							
2493220080112060 ●	120 VAC	XSz-50	1-1/2"	2"	2"	000000080012060 ●	5702750000000000 ●
2493220080102400 ●	24 VDC	XSz-50	1-1/2"	2"	2"	000000080002400 ●	5702750000000000 ●

1 (P) = Pressure Port, 2(A)= Working Port, 3 (R)= Exhaust Port  
 CSA certification should requested with the purchase order

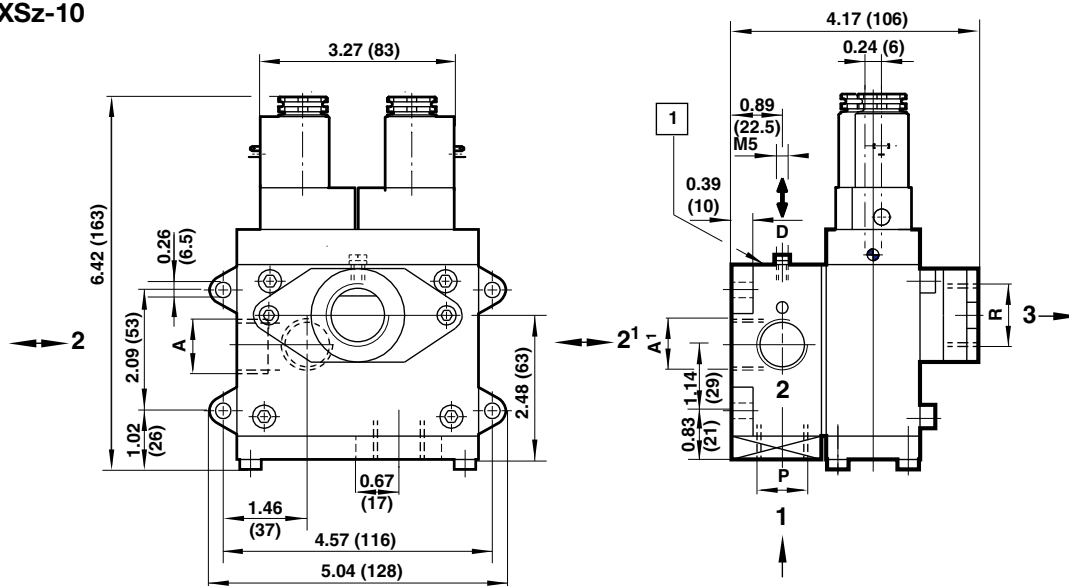
- In stock
- ◆ Ships within one week

XSz-8



Model	1 (P)	2 (A)	3 (R)	S	øT	X	⊕
24928073053*****	1/4 - 18 NPT	1/4 - 18 NPT	3/8 - 18 NPT	75	32	26,5	32

XSz-10



Model**	1 (P)	2 (A)	2' (A')	3 (R)
24929313053*****	1/2 NPT	1/2 NPT	-	3/4 NPT

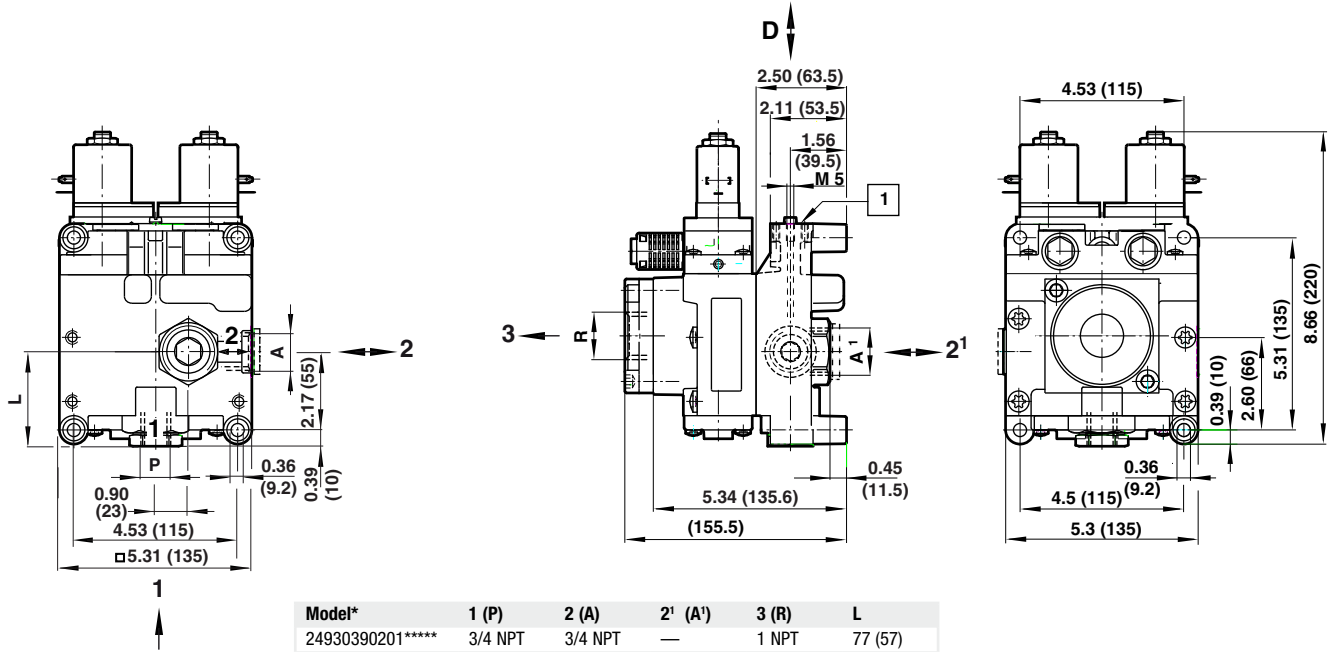
\* Closed

\*\* Dimensions shown are without DIN connectors

- In stock
- ◆ Ships within one week

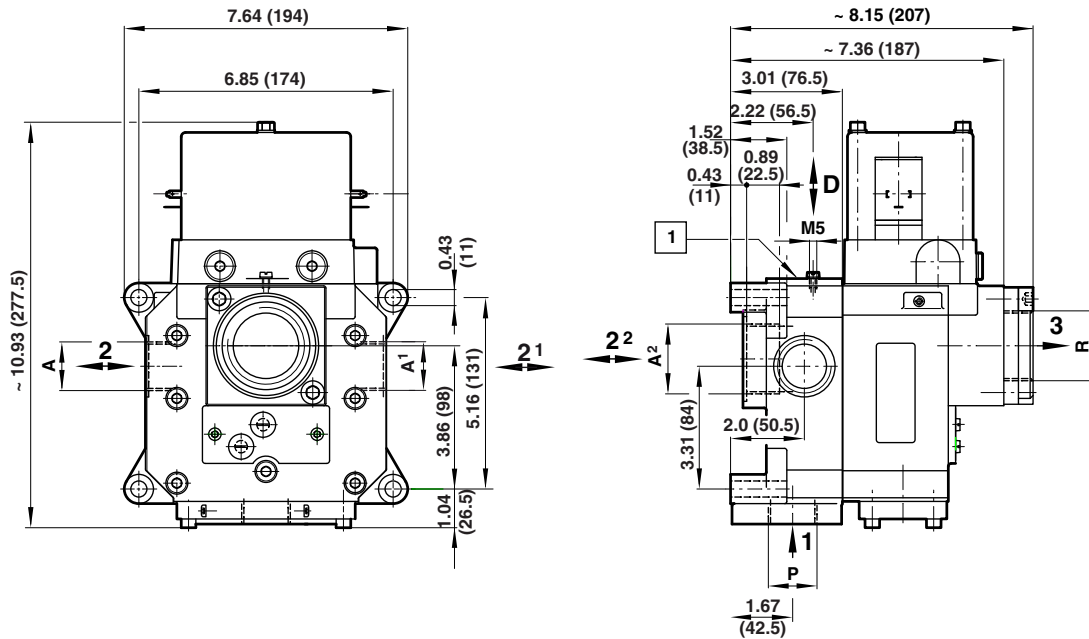
Dimensions in inches (mm)

XSz-20



\* Dimensions shown are without DIN connectors

XSz-32



Model*	1(P)	2(A)	3(R)
24931200801*****	1"NPT	1"NPT	1-1/2"NPT

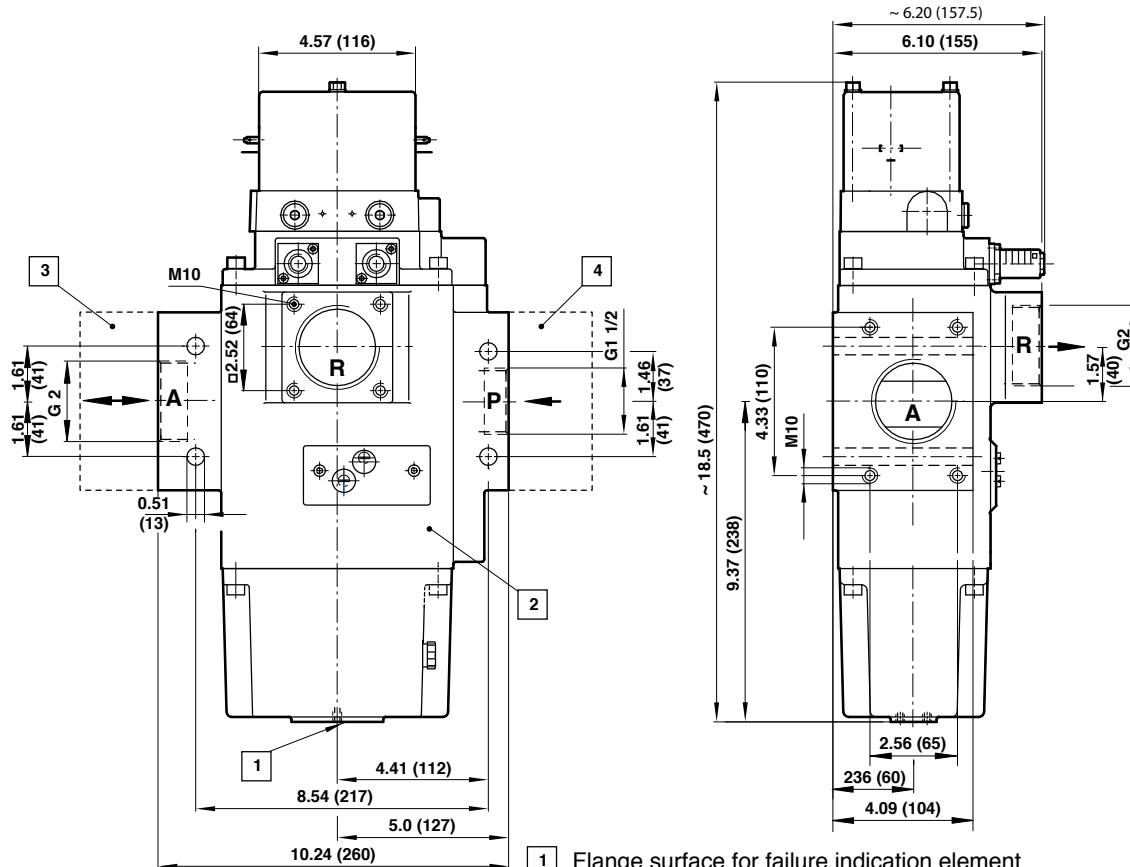
\* Dimensions shown are without DIN connectors

- In stock
- ◆ Ships within one week

Dimensions in inches (mm)



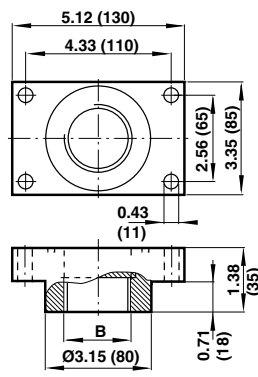
XSz-50



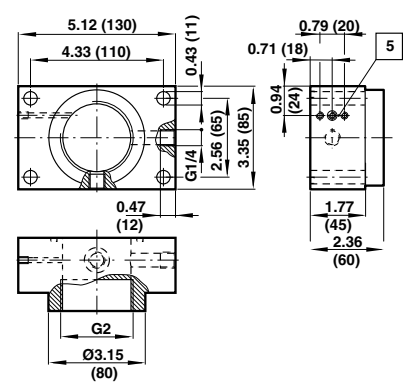
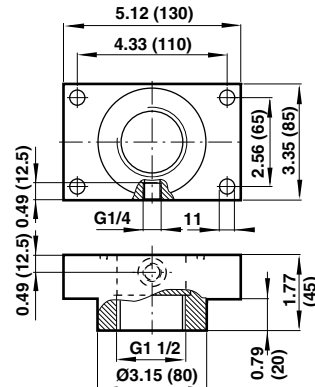
- 1 Flange surface for failure indication element
- 2 Flange surface for Pressure Balance element
- 3 Flange surface for standard flange or 18D Pressure Switch flange model number 0545005000000000
- 4 Flange surface for standard flange or optional flange 0547365000000000
- 5 Flange surface for 18D Pressure Switch

Model*	1(P)	2(A)	3(R)
24932200801*****	1-1/2"NPT	2"NPT	2"NPT

\* Dimensions shown are without DIN connectors and port flanges



Standard flange	
Port (P)1	G 1-1/2" or 1-1/2" NPT



Optional flange, G threads only	
Model number	
0547365000000000	Port (P)1
0545005000000000	Port (A)1

- In stock
- ◆ Ships within one week

Dimensions in inches (mm)

**Direct acting solenoid valve****High flow**

**A direct acting solenoid operated valve for the control of pneumatic or hydraulic operated equipment**

**Reliable and long life, ideal for a one time installation**

**Technical data**

**ATEX, CSA, GOST K & R, IECEx and NEMA 4X**

**Maximum inlet pressure:**

174 psi (12 bar)

**Flow rates:**

$C_v = 0.6$  US gpm for 1 psi

$K_v = 8.64$  l/min for 1 bar (15 psi)

**Temperature ratings:**

-67°F/194°F (-55°C/90°C) Media

**Ambient temperature:**

-67°F/194°F (-55°C/90°C) **T4**

-67°F/122°F (-55°C/50°C) **T6**

**Valve size:**

1/4" poppet valve

**Process connections:**

1/4" and 1/2" NPT

**Conduit connection:**

M20 x 1.5 conduit thread,

1/2" NPT

**Signal connection:**

1/4" NPT

**Media:**

Liquid & gases

**Weight:**

5.5 lbs. (2.5 kg)

**Materials**

Solenoid pot - stainless steel -

BFC 316

Top cover - stainless steel -

BFC 316

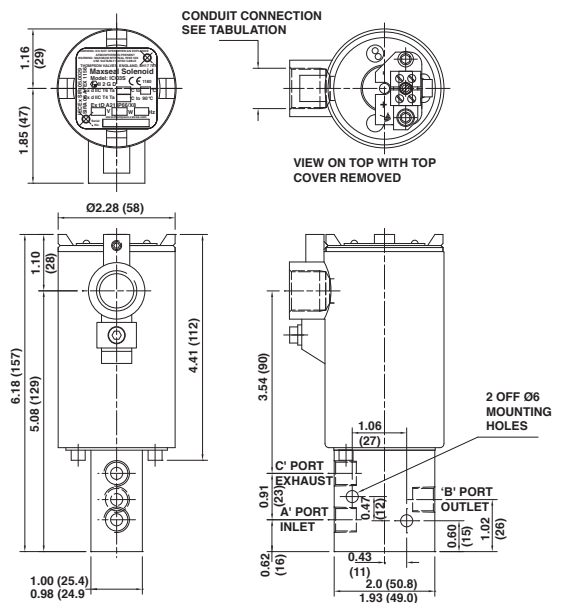
Valve body & trim materials -

316 stainless steel - 316L stainless

steel


O-rings & seals - nitrile (NBR)

Coil insulation - class H



Profile and dimensions Inches (mm)

**Models – 3/2 Solenoid**

Part number	ATEX certification	Function	Operation	Port size NPT	Seat/seat materials	Conduit/signal connection	Voltage/signal
 Y013AA1H1BS ●	Ex d	3/2	Automatic	1/4	Nitrile -67°F to 194°F	20 mm x 1.5 mm ISO (F)	24 VDC/3 watts
Y013AA1H2LS1WCSA ●	Ex d	3/2	Automatic	1/4	FPM -67°F to 194°F	1/2" NPT	12 VDC/1 watts
Y013PA1H1BS ●	Ex d	3/2	push button/auto reset	1/4	Nitrile -67°F to 194°F	20 mm x 1.5 mm ISO (F)	24 VDC/3 watts
Y013AA3H1BS ●	Ex d	3/2	Automatic	1/2	Nitrile -67°F to 194°F	20 mm x 1.5 mm ISO (F)	24 VDC/3 watts

● In stock

◆ Ships within one week

**Direct acting solenoid valve**  
**Low pressure, high flow**  
**Reliable and long life, ideal for a one time installation**  
**Control of pneumatic or hydraulic operated equipment**  
**ATEX, CSA, GOST K & R, IECEX and NEMA 4X**



**Technical data**

**Maximum inlet pressure:**

290 psi (20 bar)

**Flow rates:**

$C_v = 0.8$  US gpm for 1 psi  $\Delta p$

$K_v = 11.5$  l/min for 1 bar

(15 psi)  $\Delta p$

**Temperature ratings:**

-4°F/194°F (-20°C/90°C) Media

**Ambient temperature:**

-76°F/194°F (-60°C/90°C) **T4**

-76°F/118°F (-60°C/48°C) **T6**

**Valve size:**

1/4" balanced poppet valve

**Weight:** 12 lb. (5.5 kg)

**Process connections:** 1/4" NPT

**Conduit connection:**

M20 x 1.5 conduit thread

**Media:**

Liquid & gases

**Materials:**

Solenoid pot - stainless steel -

BFC 316

Top cover - stainless steel - BFC

316

Valve body & trim materials -

316 stainless steel - 316L stainless

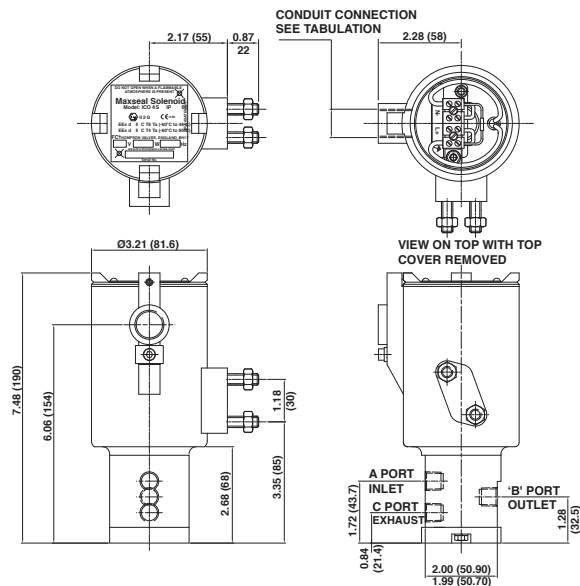
steel to the valve body and trim

materials

O-rings seats & seals -high nitrile


(NBR)

Coil insulation - class H



Profile and dimensions Inches (mm)

**Models – 3/2 Solenoid**

Part number	ATEX certification	Function	Operation	Port size NPT	Seat/seat materials	Conduit/signal connection	Voltage/signal
 <b>Y123AA1H1BS</b> ●	Ex d	3/2	Automatic	1/4	Nitrile -67°F to 194°F	20 mm x 1.5 mm ISO (F)	24 VDC

- In stock
- ◆ Ships within one week

**Inlet - outlet - exhaust**

**Certification:** No "T" class rating applicable for quick exhaust valves or Ambient temperature indential to media temperatures

**Atex certification** none, not applicable

**Technical data****Max. inlet pressure:**

0.5-12 bar (7-174 psi)

**Temperature ratings:**

Media (min/max): -50°C/80°C (-58°F/176°F)

Ambient: must be used within 'T' class temperature ranges shown

**Process connections:**

NPT

**Conduit / Signal Conns:**

None

**Media:**

Customer to specify and confirm compatibility

**Operation:**

Automatic

**Leak Performance:**

Bubble tight

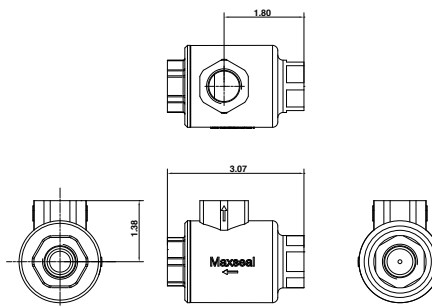
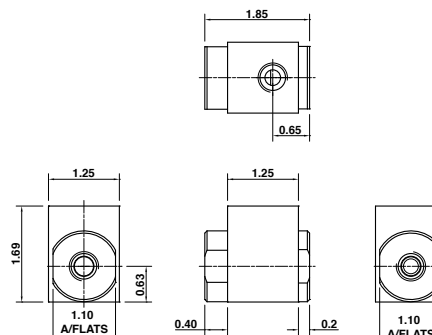
**Materials**

Valve body & trim - 316L stainless steel

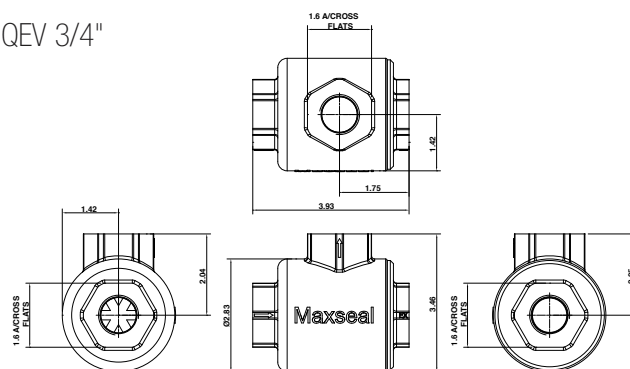
O-Rings seats & seals - nitrile


Paint finish - stainless steel

construction - unpainted



QEV 3/4"

**Models**

Part number	Port size NPT	Flow rate Cv	Weight lb.
 QEV13AA1H00S ●	1/4	1.6/2.1 USgpm for 1 psi Δp	0.77
QEV13AA3H00S ●	1/2	6.4/5.5 USgpm for 1 psi Δp	1.21
QEV13AA5H00S ●	3/4	10.4/10.8 USgpm for 1 psi Δp	3.26

● In stock

◆ Ships within one week



### Low Power ICO3 Valves

The Low Power ICO3S range of direct acting solenoid valves provide a low power option for high-flow instrument change over applications. With a nominal steady state power consumption of 1.0W, the Low Power ICO3S exhibits a 67% reduction in steady-state power consumption when compared to the standard ICO3S, while retaining identical flow and safety integrity level due to an uncompromised 11 lb (5 kg) spring-force and associated high force/friction ratio.

Unlike many other Low Power valves, the IMI Maxseal Low Power ICO3S does not achieve reduced energy consumption through a weakened return spring or internal piloting. Instead, the valve uses an integrated PWM driver to regulate the power delivered to the coil. The benefit of this approach is that internally the valve is in all ways identical to a standard ICO3S.

The Low Power ICO3S has been developed for applications where power supply is at a premium, such as remote shale gas installations. Often such installations are renewable, generator or battery powered, and as such, a power consumption of just 1.0W per valve makes the Low Power ICO3S the solenoid valve of choice, particularly where safety is paramount.

- > Full 316L Stainless Steel construction
- > IP66/X8 ingress protection
- > Saves 650kWh over 25 year life (compared with standard 4w valve)



← 67% reduction in power consumption

↗ Low power ICO3

## SWITCHES AND SENSORS



A comprehensive range of Pressure Sensing and Liquid Level sensors, providing a range of different options for converting pressure changes into an electrical signal. The range includes electromechanical and electronic switches suitable for pneumatic and all fluid applications. The range also contains NAS Nut /Thread Sensors applicable to a wide variety of industrial applications.

# Fast Find Guide

## PRESSURE SWITCHES

**Herion 18D Pneumatic**  
Vac - 435 psi



**SAS-04**

**Herion 18D Hydraulic**  
70 to 6100 psi



**SAS-06**

## SOLID STATE SWITCHES

**Herion 33D**  
Pneumatic / all-fluid  
Vac - 9100 psi



**SAS-08**

**Herion 51D**  
Pneumatic / all-fluid  
14.5 to 145 psi

*new\**



**SAS-10**

## LIQUID LEVEL SENSORS

**KIP LS 1 Series**  
150 PSI  
-40°F to 150°F  
1/8" NPT or 7/16 - 20 UNF



**SAS-15**

**KIP LS 11 Series**  
-40°F to 150°F Polypro  
-40°F to 225°F PBT



**SAS-18**

**KIP 25 BN Series**  
1000 PSI Maximum  
-40° to 300°F



**SAS-19**

**KIP 50 BN Series**  
150 PSI  
-40°F to 225°F

*new\**



**SAS-20**

**KIP 35 SS Series**  
275 PSI  
-40° to 300°F



**SAS-22**

**KIP 40 SS Series**  
400 PSI  
-40° to 300°F

*new\**



**SAS-23**

**KIP 50 SS Series**  
300 PSI  
-40° to 300°F



**SAS-24**

## NAS NUT/THREAD SENSORS

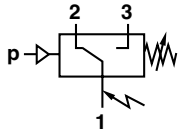
**NAS Nut/Thread Sensors**



**Page SAS-27**

*\*New to this catalog*

- Adjustable setpoint**
- Gold-plated contacts**
- Vibration resistant to 15 g**
- Microswitch approved by UL and CSA**



DIN 43650



### Technical data

#### Medium

Neutral, gaseous and liquid fluids

#### Operation

Diaphragm

#### Mounting position

Optional

#### Operating pressure

Vac to 435 psi

#### Over pressure

1150 psi

#### Ambient temperature

14°F to 185°F (-10°C to 85°C)

(NBR)

32°F to 175°F (0°C to 80°C)

(FPM)

#### Viscosity

Up to 1000 mm<sup>2</sup>/s (±450 ssu).

#### Fluid temperature

14°F to 185°F (-10°C to 85°C)

(NBR)

32°F to 175°F (0°C to 80°C)

(FPM)

Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C)

#### Repeatability

+/- 3% for vacuum

+/- 4% of final value

(depending on regulating pressure)

#### Electrical connection

DIN 43650

#### Switching element

Microswitch with gold plated contacts

#### Degree of protection

IP 65

#### Weight

.4 lbs (0.2 kg)

#### Materials

Housing: aluminum

Seals: NBR, FPM

'O'-ring: NBR

### Model numbers - pneumatic/lubrication applications

Port size	Type	Pressure range psi (bar)		Switching pressure difference psi* (bar)		Sealing	Model	Dimension Drawing No.
				lower range	upper range			
1/4 NPT	Female	-14 - 0	(-1 - 0)	2 (0.15)	3 (0.18)	FPM	0880120000000000	1
-	Flange	-14 - 0	(-1 - 0)	2 (0.15)	3 (0.18)	FPM	0881100000000000	3
1/4 NPT	Female	3 - 30	(0.2 - 2)	2 (0.15)	4 (0.27)	FPM	0880220000000000	1
-	Flange	3 - 30	(0.2 - 2)	2 (0.15)	4 (0.27)	NBR	0881200000000000	3
1/4 NPT	Female	7 - 120	(0.5 - 8)	4 (0.2)	9 (0.65)	NBR	0880320000000000	2
-	Flange	7 - 120	(0.5 - 8)	4 (0.2)	9 (0.65)	NBR	0881300000000000	3
1/4 NPT	Female	15 - 230	(1 - 16)	4 (0.2)	13 (0.90)	NBR	0880420000000000	2
-	Flange	15 - 230	(1 - 16)	4 (0.2)	13 (0.90)	NBR	0881400000000000	3
1/4 NPT	Female	15 - 435	(1 - 30)	15 (1.0)	75 (5.0)	NBR	0880620000000000	2

Note: Switches are supplied with DIN 43650 mating connector.

\* Switching pressure difference (hysteresis) is not adjustable. Typical valves are shown.

Caution: Observe switching range. Do not subject switch to maximum allowable pressure during normal operation. Even short pressure peaks must not exceed this value.

- In stock
- ◆ Ships within one week



**Switching capacity**

**Commutator with gold plated contacts**

Current	type	Load type *2)	U min [V]	Max. permanent current I <sub>max</sub> [A] at U *1)					Contact life
				(UL & CSA) M 12x1 30 V	DIN EN 175301-803, form A				
				30 V	30 V	48 V	125 V	250 V	
AC		ohmic, inductive	6	0.1	0.1	0.1	0.1	0.1	≥ 2 x 10 <sup>5</sup> switching cycles
DC		ohmic, inductive	6	0.1	—	—	—	—	

Reference number: 20/min, Reference temperature: +20°C.

I<sub>min</sub> = 1 mA at 24 VDC or 5 mA at 6 VDC

\*1) Higher currents (5 A max) will cause a reduction of the durability of the micro-switch contacts. Furthermore additional measurements has to be taken to fulfill the EMV regulation 2004/108/EG by the manufacturer

\*2) Spark quenching/overload protection will be necessary using inductive loads.

**Recommended circuit**

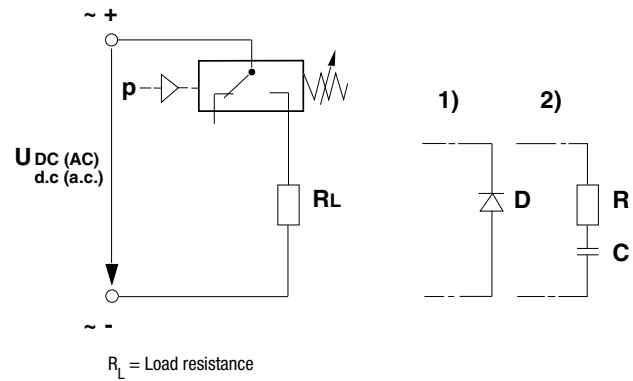
**Spark quenching and EMV intrinsically safe**

- Quick diode (D) with  $t_v \leq 200$  ns, parallel to inductive load.
- RC link in parallel to load in parallel to switching contact.

Dimensioning principles:

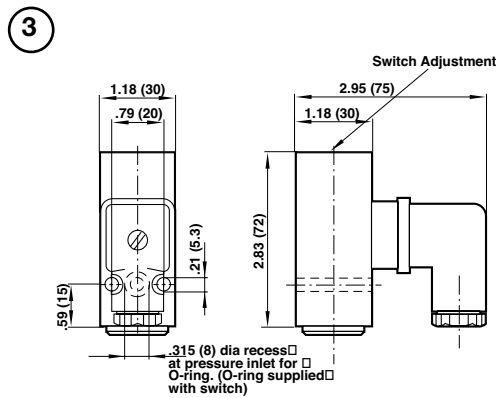
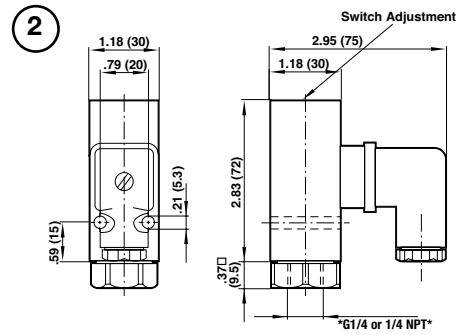
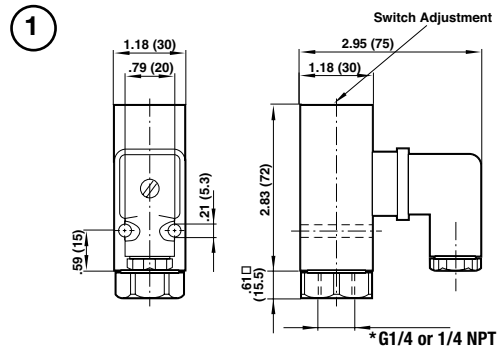
$R_L$  in  $\Omega \approx 0.2 \times R_{Load}$  in  $\Omega$

$C$  in  $[\mu F] \approx I_{Load}$  in [A]

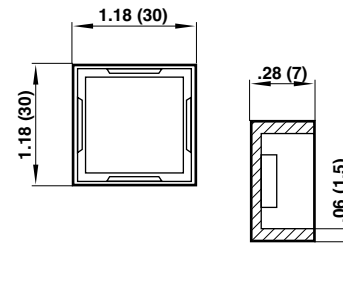


**Switching function**

<p>Plug DIN EN 175301-803, form A          Microswitch SPDT          Terminals 1 - 3: Contacts close on rising pressure.          Terminals 1 - 2: Contacts open on rising pressure.</p>	<p>Switching function IEC 947-5-2, M12 x 1:          Microswitch SPDT          Terminals 1 - 4: Contacts close on rising pressure.          Terminals 1 - 2: Contacts open on rising pressure.</p>
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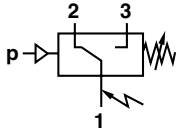
**Protective Cover**  
 An optional elastomer cover for protection of the switch adjustment against dirt and splashing liquids Part No. 055473700000000



- In stock
- ◆ Ships within one week

Dimensions in inches (mm)

- Adjustable setpoint**
- Gold-plated contacts**
- Vibration resistant to 15 g**
- Microswitch approved by UL and CSA**



DIN 43650

### Technical data

#### Medium

For Neutral, self lubricating fluids, e.g. hydraulic oil, lube oil, light fuel oil

#### Operation

Softseal Piston

#### Mounting position

Optional

#### Operating pressure

70 to 6100 psi

#### Ambient temperature

-4°F to 175°F (-20°C to + 80°C)

#### Viscosity

Up to 1000 mm<sup>2</sup>/s (±450 ssu).

#### Fluid temperature

-4°F to 175°F (-20°C to +80°C)

#### Repeatability

±3%

#### Electrical connection

DIN 43 650

#### Switching element

Microswitch

#### Degree of protection

IP 65

#### Weight

.2 lbs (0.2 kg)

#### Materials

Housing aluminum

Port: stainless steel

Seals: PTFE/Buna-N

### Model numbers - hydraulic applications

Port size	Type	Pressure range psi (bar)	Switching pressure Difference (Hysteresis)* psi (bar)				Model	Dimension Drawing No.
			Lower range	Upper range				
-	flange	70 – 1015 (5 – 70)	152	(10.5)	218	(15)	0883100000000000	● 2
7/16-20 UNF	female	70 – 1015 (5 – 70)	152	(10.5)	218	(15)	0882119000000000	● 1
1/4 NPT	female	70 – 1015 (5 – 70)	152	(10.5)	218	(15)	0882120000000000	● 1
-	flange	150 – 2320 (10 – 160)	160	(11)	247	(17)	0883200000000000	● 2
7/16-20 UNF	female	150 – 2320 (10 – 160)	160	(11)	247	(17)	0882219000000000	● 1
1/4 NPT	female	150 – 2320 (10 – 160)	160	(11)	247	(17)	0882220000000000	● 1
-	flange	360 – 3600 (25 – 250)	160	(11)	247	(17)	0883300000000000	● 2
7/16-20 UNF	female	360 – 3600 (25 – 250)	160	(11)	247	(17)	0882319000000000	● 1
1/4 NPT	female	360 – 3600 (25 – 250)	160	(11)	247	(17)	0882320000000000	● 1
-	flange	580 – 6100 (40 – 420)	247	(17)	508	(35)	0883400000000000	● 2
7/16-20 UNF	female	580 – 6100 (40 – 420)	247	(17)	508	(35)	0882419000000000	● 1
1/4 NPT	female	580 – 6100 (40 – 420)	247	(17)	508	(35)	0882420000000000	● 1

Note: Switches are supplied with DIN 43650 mating connector

\* Switching pressure difference (hysteresis) is not adjustable. Maximum values are shown.

- In stock
- ◆ Ships within one week

**Switching capacity**

**Commutator with gold plated contacts**

Current	type	Load type *2)	U min [V]	Max. permanent current I <sub>max</sub> [A] at U *1) (UL & CSA)					Contact life
				M 12x1 30 V	DIN EN 175301-803, form A 30 V	48 V	125 V	250 V	
AC		ohmic, inductive	6	0.1	0.1	0.1	0.1	0.1	≥ 2 x 10 <sup>6</sup> switching cycles
DC		ohmic, inductive	6	0.1	—	—	—	—	

Reference number: 20/min, Reference temperature: +20°C.

I<sub>min</sub> = 1 mA at 24 VDC or 5 mA at 6 VDC

\*1) Higher currents (5 A max) will cause a reduction of the durability of the micro-switch contacts. Furthermore additional measurements has to be taken to fulfill the EMV regulation 2004/108/EG by the manufacturer

\*2) Spark quenching/overload protection will be necessary using inductive loads.

**Recommended circuit**

**Spark quenching and EMV intrinsically safe**

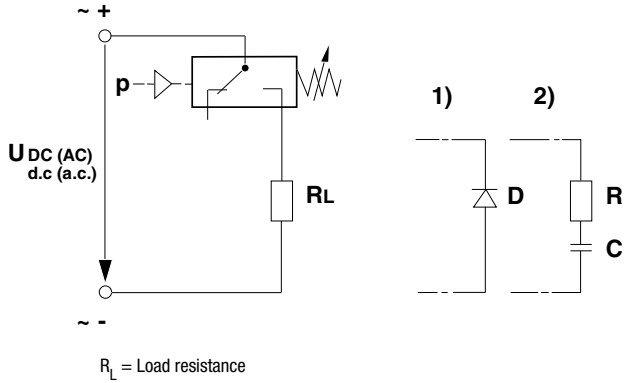
1. Quick diode (D) with t<sub>v</sub> ≤ 200 ns, parallel to inductive load.

2. RC link in parallel to load in parallel to switching contact.

Dimensioning principles:

R<sub>L</sub> in Ω ≈ 0.2 x RLoad in Ω

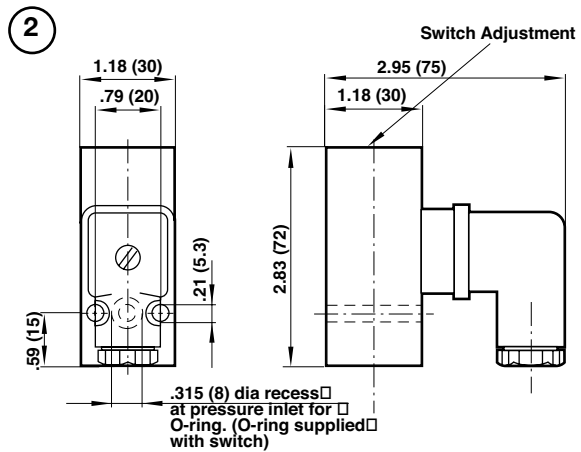
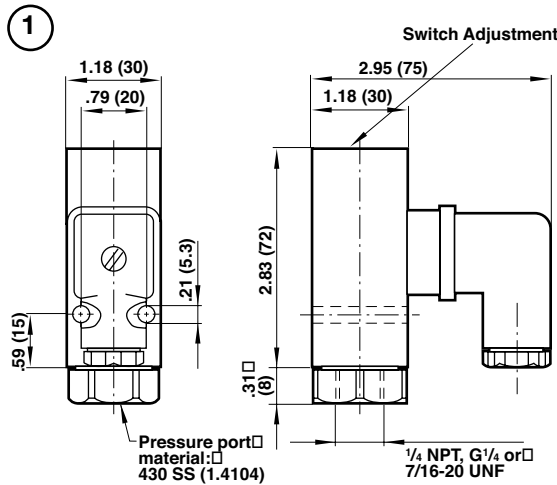
C in [µF] ≈ Load in [A]



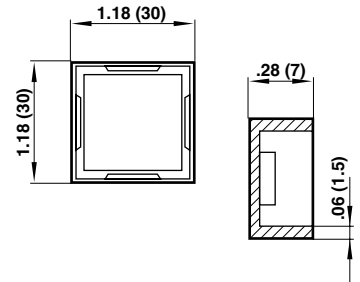
R<sub>L</sub> = Load resistance

**Switching function**

<p>Plug DIN EN 175301-803, form A          Microswitch SPDT          Terminals 1 - 3: Contacts close on rising pressure.          Terminals 1 - 2: Contacts open on rising pressure.</p>	<p>Switching function IEC 947-5-2, M12 x 1:          Microswitch SPDT          Terminals 1 - 4: Contacts close on rising pressure.          Terminals 1 - 2: Contacts open on rising pressure.</p>
--	--



Protective Cover  
 An optional elastomer cover for protection of the switch adjustment against dirt and splashing liquids Part No. 0554737000000000



- In stock
- ◆ Ships within one week

Dimensions in inches (mm)



- Real time pressure display with backlight**
- Compact and robust design**
- Easy programming of set points and additional functions**
- Transistor output signals 1 x PNP, 2 x PNP, or 1 x PNP + 4 to 20 mA**
- Electronic lock**
- Switching status indicated by LED**
- Standard M12x1 electrical connection (IP 65)**
- For pneumatic, all fluid and hydraulic applications**

**Technical data**

**Medium**

Pneumatic types: compressed air or neutral gases  
 All fluid types: gasses or liquids, including aggressive

**Display**

LCD 4 digits illuminated, pressure unit programmable for bar, psi, mpa

**Mounting position**

Optional

**Operating pressure**

Vac to 230 psi (pneumatic)  
 0 to 9100 psi (hydraulic/allfluid)

**Temperature sensitivity**

(zero point)  
 0.4% of final value/10 K

**Temperature sensitivity**

(range)  
 0.4% FS/10 K

**Ambient temperature**

14°F to 140°F (-10°C to 60°C)

**Fluid temperature**

14°F to 75°F (-10°C to 80°C)

**Switching point**

Adjustable between 0 and 100% FS

**Reset point**

Adjustable between 0 and 100% FS

**Electrical connection**

M12 x 1  
 Linearity  
 < 0.2% FS ±1 digit  
 Degree of protection to DIN 40 050  
 IP 65 (with mounted plug)

**Materials**

Housing: aluminum  
 Pneumatic version  
 Seal : FPM O-ring (FKM)  
 Sensor: silicon  
 Hydraulic/All fluid version  
 Porting block / sensor:  
 316 SS welded

**Model number - standard pneumatic models\***

Port size	Measuring range (psi) (relative pressure)	Maximum overpressure (psi)	Output signal	Model
1/4 NPT	Vac-15	145	1 x PNP	0863014000000000 ●
Flange	Vac-15	145	1 x PNP	0863016000000000 ●
1/4 NPT	Vac-15	145	2 x PNP	0863024000000000 ●
Flange	Vac-15	145	2 x PNP	0863026000000000 ●
1/4 NPT	Vac-15	145	1 x PNP / 4-20 mA	0863044000000000 ●
Flange	Vac-15	145	1 x PNP / 4-20 mA	0863046000000000 ●
1/4 NPT	0 - 230	435	1 x PNP	0863214000000000 ●
Flange	0 - 230	435	1 x PNP	0863216000000000 ●
1/4 NPT	0 - 230	435	2 x PNP	0863224000000000 ●
Flange	0 - 230	435	2 x PNP	0863226000000000 ●
1/4 NPT	0 - 230	435	1 x PNP / 4-20 mA	0863244000000000 ●
Flange	0 - 230	435	1 x PNP / 4-20 mA	0863246000000000 ●

\* M12 x 1 connector not included. Please see table on next page.

**Options selector 0863\*\*\*00000000**

Pressure range (pneumatic)	Substitute	Fluid/electrical connection	Substitute
Vac-15 psi	0	G 1/4, M12 x 1	2
0 - 230 psi	2	1/4 NPT, M12 x 1	4
		Flange, M12 x 1	6
Pressure range (allfluid)	Substitute	Output signal	Substitute
0 - 145 psi	1	1 digital out	1
0 - 580 psi	3	2 digital out	2
0 - 1450 psi	4	1 digital out/4 - 20 mA**	4
0 - 2300 psi	5		
0 - 3600 psi	6		
0 - 5800 psi	7		
0 - 9100 psi	8		

\*\* 4-20 mA option not available on flange mounted versions.

- In stock
- ◆ Ships within one week

**Electrical parameters**

Electrical connection	M12 x 1
Power supply	10 – 32 V d.c. (polarity safe) digital models 15 – 32 V d.c. (polarity safe) analog models
Permissible residual ripple	10% (within 12 to 32 V)
Current consumption	<50 mA (plus load current)

**Electromagnetic compatibility**

Interference emission	Conforming to EN 50081. Part 1
Interference immunity	Conforming to EN 50082. Part 2

**Electrical connection M12 x 1**

Pin	Signal	Cable
1	Supply voltage	Brown
2	Out 2 (PNP) / analog 4 – 20 mA	White
3	Common	Blue
4	Out 1 (PNP)	Black
5	Earth ground	Grey

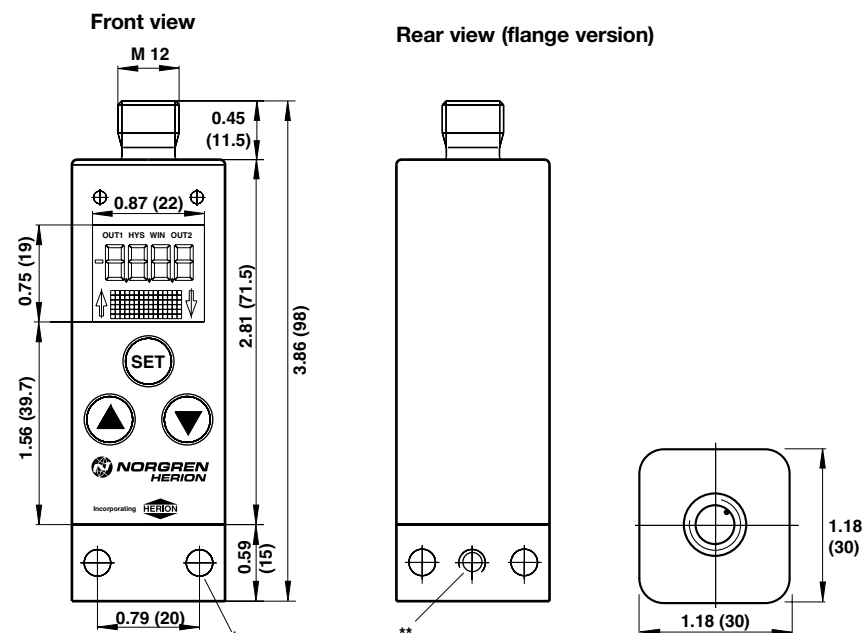
**Switching output**

<b>Switching mode</b>	<b>PNP sourcing type transistor, suitable for inductive load</b>
Output voltage	Supply voltage -1.5 V
Analog output	4 – 20mA
Contact rating	I <sub>max</sub> = 500 mA (short-circuit proof)
Switching time	< 10 ms
Damping	5 ms – 0.64 sec programmable
Signal delay:	On/off 0 to 20 sec programmable
Service life	min. 100 million switching cycles
Switching logic	n.o. / n.c. programmable
Operating mode	Standard, hysteresis and window mode Separately selectable for each output

**Accessories**

Part number	Connectors and cordsets (M12 x 1)*
8112184000000000	Mating connector 5-pin straight w/screw terminals, no cable

\* must be ordered separately



\* Suitable for M 5 x 35 or 10-24 screws

\*\* Flange diameter 8 x 1.2 deep, O-ring 4.47 x 1.78 (FPM 90)

Dimensions in inches (mm)

- In stock
- ◆ Ships within one week

**System pressure (unit bar, psi, Mpa, KPa, kgf/cm<sup>2</sup>, mmHg, InHg or mmH<sub>2</sub>O) selectable**

**High accuracy and resolution**

**Switching status indicated by LED**

**Output: 2 x PNP**



### Technical features

#### Medium:

For filtered, lubricated or non lubricated compressed air, neutral and incombustible gases

#### Pressure range:

-14.5 to 145 psi (-1 to 10 bar)  
-14.5 to 14.5 psi (-1 to 1 bar)

#### Display:

3 1/2 digit LED

#### Mounting position:

Optional

#### Repeatability (switch output):

$\sqrt{\pm 0.2\%}$  of full scale  $\pm 1$  digit - without temperature sensitivit

#### Response time:

$\pm 2.5$  ms

#### Shock proof:

100g (980 m/s<sup>2</sup>), xyz

#### Vibration proof:

88g, 10 - 55 Hz, xyz

#### Degree of protection acc. to DIN 40050:

IP65 (with mounted dust proof protector)

#### Weight:

3 oz. (83g)

#### Temperature sensitivity:

$\sqrt{2\%}$  of full scale (FS) of detected pressure 77°F (25°C)

#### Ambient/Media temperature:

0°F to 122°F (0°C to 50°C)

#### Storage temperature:

-4°F to 140°F (-20°C to 60°C)

No condensation or freezing

Air supply must be dry enough

to avoid ice formation at

temperature below + 35°F (+2°C)

#### Materials:

Body: PC

### Electrical parameters

#### Electrical connection:

M12 x 1

#### Power supply:

12 to 24 VDC  
24 VDC (PNP) maximum

#### Residual voltage:

$\sqrt{1}$  V (load current 80 mA)

#### Permissible residual ripple:

10% or less (P-P)

#### Current consumption:

$\sqrt{50}$  mA

#### Load current:

80 mA maximum (with output short circuit protection)

#### Switching mode:

PNP

#### Indicator:

Green LED (OUT1), red LED (OUT2)

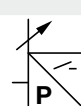
#### Insulation resistance:

50 M $\Omega$  min (at 500 VDC (between case and lead wire)

#### Electromagnetic compatibility:




According to EN 61326-1

### Technical data

Symbol	Port size	Switching pressure range (psi) (bar)		Output signal	Model
	1/8 NPT	-14.5 to 145	-1 to 10	2 x PNP	0860811000000000 ●
	1/8 NPT	-14.5 to 14.5	-1 to 1	2 x PNP	0860821000000000 ●

\*1) Short-term pressure peaks are not allowed to exceed this limit value during operation. Operative utilization of the limit value is not permitted. The limit value corresponds to the maximum testing pressure

### Accessories

Mounting bracket (wall mounting)	Mounting bracket (bottom mounting)	Panel mounting kit
		
0860000000000000 ●	0860001000000000 ●	0860005000000000 ●

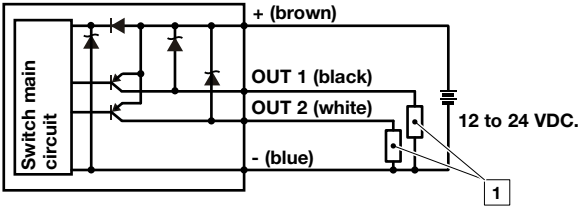
● In stock

◆ Ships within one week

**Electrical connection M12 x 1**

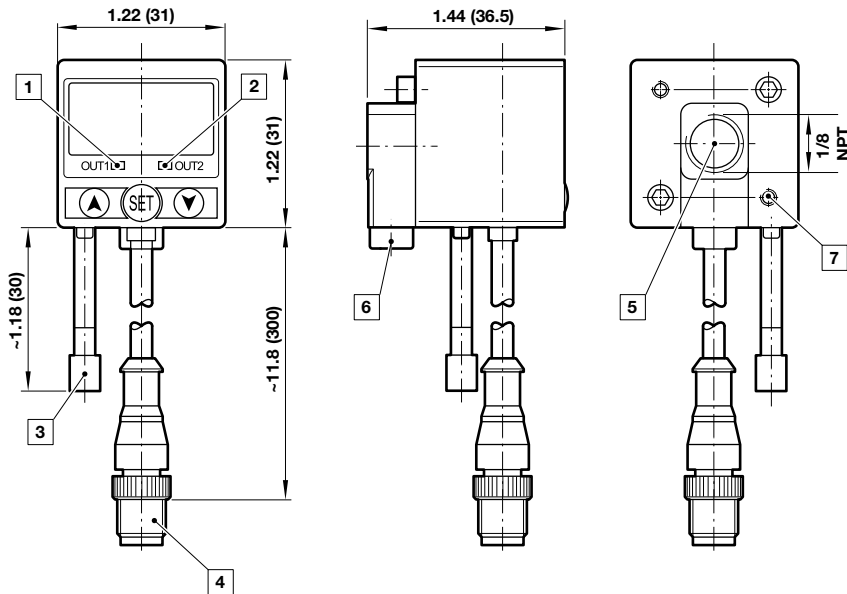
	PIN-No.	Signal	Cable
	1	+ UB	brown
	2	Out 2	white
	3	-	blue
	4	Out 1	black

**PNP**



**Pressure switch**

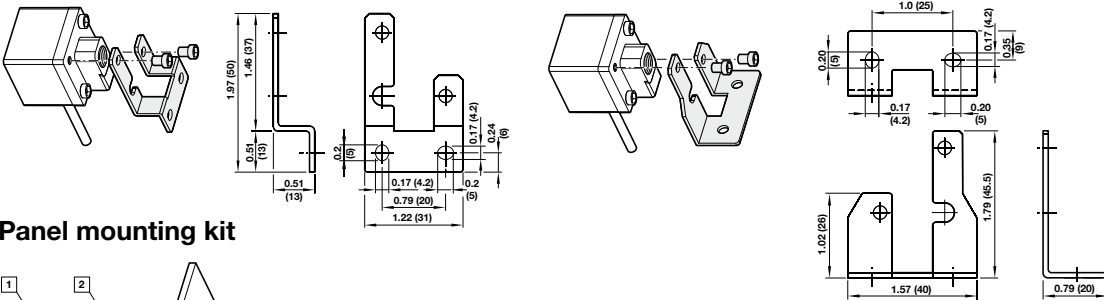
1 Load



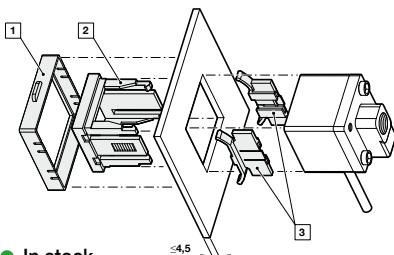
- 1 Switch OUT 1, green LED
- 2 Switch OUT 2, red LED
- 3 Dustproof protector
- 4 Connector M12 x 1
- 5 Inlet port
- 6 Alternative inlet port G1/8 plugged
- 7 Thread for mounting screw

**Mounting bracket (wall mounting)**

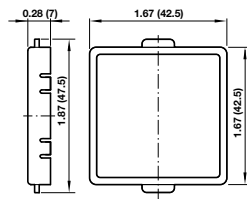
**Mounting bracket (bottom mounting)**



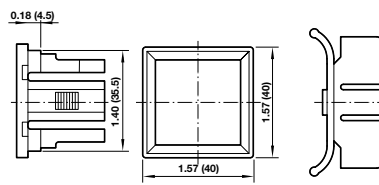
**Panel mounting kit**



**Front protective lid**



**Panel adaptor**



- 1 Front protection lid
- 2 Panel adaptor
- 3 Safety adaptors

- In stock
- ◆ Ships within one week

Engineering  
GREAT  
Solutions



## Engineering GREAT solutions through people, products, innovation and service

IMI Precision Engineering is a world-leader in fluid and motion control. Building close, collaborative relationships with our customers, we gain a deep understanding of their engineering needs and then mobilize our resources and expertise to deliver distinctive products and solutions.

Wherever precision, speed and engineering reliability are essential, our global footprint, problem-solving capability and portfolio of high performance products enables us to deliver GREAT solutions which help customers tackle the world's most demanding engineering challenges.

### > Reliability

We deliver and support our high quality products through our global service network.

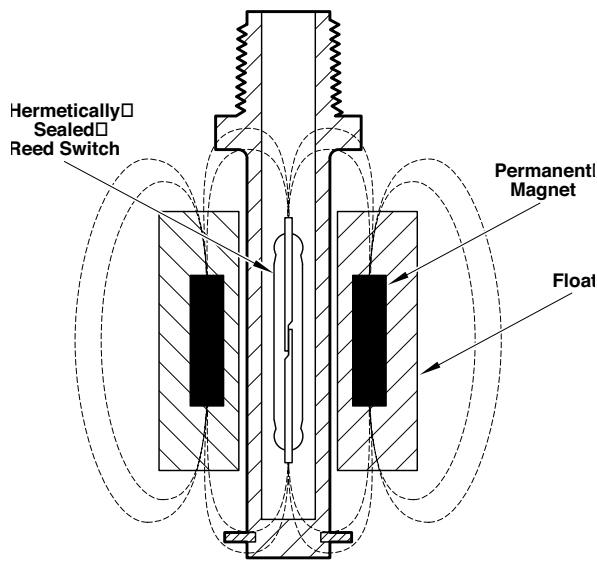
### > High performance products

Calling on a world-class portfolio of fluid and motion control products including IMI Norgren, IMI Buschjost, IMI FAS, IMI Herion and IMI Maxseal. We can supply these singly, or combined in powerful customized solutions to improve performance and productivity.

### > Partnership & Problem Solving

We get closer to our customers to understand their exact challenges.





### Design Considerations

- Pressure
- Temperature
- Mounting
- Termination
- Media Characteristics, such as
  - Specific gravity
  - Corrosive characteristics
  - Viscosity
- Actuation Point(s)
- Materials of construction
- Switch life/Switch load

Our liquid level switches are designed to meet a complete range of application requirements. We have the design engineering and application engineering expertise to help you select the best level control for your application.

The switch contact ratings, as listed in the switch data chart, are based on use with a resistive type load. For applications requiring the control of an inductive or capacitance load, additional interface circuitry may be required. Please contact technical support for assistance or to have a life-cycle test performed on your load with Leveline switches.

### Operation

The hermetically sealed reed switch located inside the stem is actuated by a magnetic field created by a magnet equipped float. As the float rises and falls the magnetic field passing the switch in the stem causes the switch to either close or open.

Switches can be mounted from tank top or tank bottom or can be adapted for side mounting. Switches will operate normally with up to a 30° tilt from vertical.

Most single point switches operate in either a Normally Open (NO) or Normally Closed (NC) mode. Selecting the mode is as easy as removing the retaining clip and reversing the float on the stem. Switches are shipped normally open as standard. However, some are non reversible and must be ordered as NO, NC or SPDT.

### Design Flexibility

#### Interface Detection

Many models can be modified to detect the level of two dissimilar liquids such as oil and water.

#### Mounting Styles

Other mounting configurations are available such as flanges, bent stem, different NPT, straight thread and metric size mounting plugs.

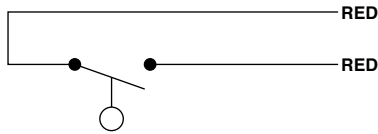
#### Terminations

A variety of wire terminations, custom lead lengths, cable jackets and connectors are also available.

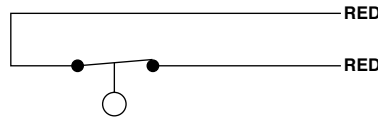
In addition to single point detectors, we offer multipoint products for OEM applications. Complete the Application Inquiry Sheet and fax to 860-677-4999 or call 800-722-5547.

Standard reed switches are SPST or SPDT. The diagrams below show the typical wiring.

**Form A SPST - single pole / single throw**  
Normally open dry

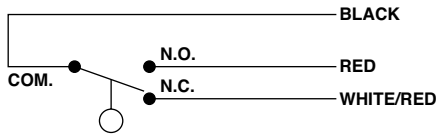


**Normally Closed Dry**



**Form C SPDT - Single Pole / Double Throw**

**SPDT Dry Condition**



Each level switch varies in rating depending on the unit, see the chart below for electrical ratings.

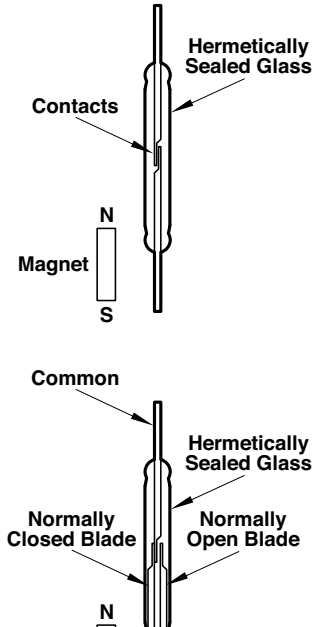
**Switch Ratings Max - Resistive Loads**

Contact Rating	Volts	Amps AC	Amps DC
10 VA	0-50	.20	.13
	120	.08	.05
	240	.04	N/A
20 VA	0-50	.40	.30
	120	.17	.13
	240	.08	.06
50 VA	0-50	.50	.50
	120	.41	.41
	240	.20	.20
100 VA	120	.83	N/A
	240	.41	N/A

NOTE: Above ratings are for resistive loads only

- In stock
- ◆ Ships within one week

The reed switch is designed for reliability to millions of cycles. To ensure long life and repeatability, see the contact protection information below.

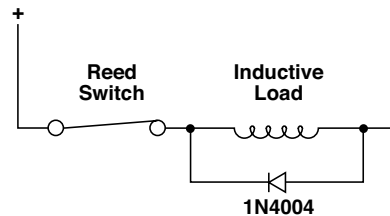


**Contact Protection**

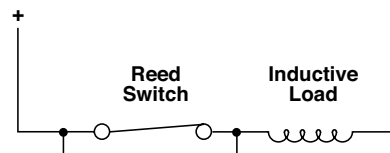
In order to take advantage of the long life, highly reliable characteristics of a reed switch, it is essential to provide protection when switching inductive loads.

When current is interrupted, the inductance of the load generates a high frequency voltage, which appears across the switch contacts. If the voltage is large enough, it can cause arcing. Arcing can cause the contacts to weld to each other resulting in unreliable switching performance. It is essential to protect the circuit by suppressing the voltage to prevent arcing. This can easily be accomplished through the use of a diode for DC circuits (Figure 1) and a resistor-capacitor network for AC circuits (Figure 2).

**Figure 1**  
**D.C. Contact Protection**



**Figure 2**  
**A.C. Contact Protection**



**Reliable, compact, low cost solution to liquid-level control**

**Small, compact size with small displacement**

**Seamless cellular construction**

**Excellent chemical resistance**

**NSF Approved**

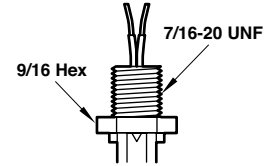
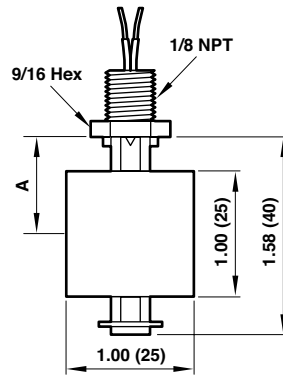
**Unique hex designed stem**



Polypropylene Foamed Float



Polypropylene Hollow Float



A - actuation point is approximately midway of float travel in liquid with a specific gravity of 1.0.

**Technical data**

**Maximum Pressure**

@70° F

**Foamed Float**

150 PSI (10.3 bar)

**Hollow Float**

10 PSI (.69 bar)

**Temp. Operating Range**

Foamed Float

-40° to 150° F (-40° to 66° C)

**Leadwire**

Polypro Units

22 AWG, 24" long

**Recommended Minimum**

**Liquid SP GR**

Foamed Polypro Float

0.72

Hollow Polypro Float

0.55

**LS 1 Series Ordering Numbers:**

Part Number	MTG	Stem Material	Float Material	Other Wetted Parts	Switch Rating
0255-024†	◆ 1/8" NPT	Polypro	Polypro	Polypro	20 VA*
0507-024†	◆ 1/8" NPT	Polypro	Polypro	Polypro	10 VA
0689-024†	◆ 1/8" NPT	Polypro	Polypro	Polypro	3 VA SPDT
2574-024	◆ 1/8" NPT	Polypro	Hollow polypro	Polypro	20 VA

\* UL and CSA switch ratings are 20VA pilot duty rated; 120VAC - 240VAC

† "NSF Certified" - These products conform to the requirements of

NSF Criteria C2 - Special and/or Devices.

- For NSF label add prefix N to the part number when ordering.

UL Recognized  
File No. E 129277



CSA Approved  
File No. LR 90981



- In stock
- ◆ Ships within one week

**Mini LS 1 Series**

- The LS 1 Series with a float diameter of 0.75 fits into those hard to reach places
- Ultra compact size fits through small bottle or tank openings
- Seamless cellular construction for a rugged float design
- Ideal for food and beverage applications
- Unique hex stem design minimizes potential for liming

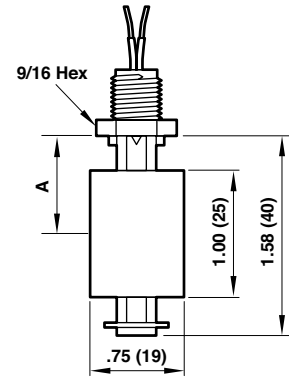
**Technical data**

<b>Maximum Pressure</b> 150 PSI (10.3 bar) @ 70°F	<b>Recommended Minimum</b> Liquid SP GR 0.90
<b>Temp. Operating Range</b> -40°F to 150°F (-40°C to 66°C)	<b>Float Material</b> Seamless Cellular Polypropylene
<b>Mounting</b> 1/8" NPT or 7/16 - 20 UNF	<b>Stem and Other Parts</b> Polypropylene
<b>Leads</b> 22 AWG, 24" long	

**Mini LS 1 Series Ordering Numbers:**

Part Number	MTG	Material	Switch Rating
0763-024 <sup>†</sup> ◆	1/8" NPT	Polypro	20 VA
1340-024 <sup>†</sup> ◆	7/16-20 UNF	Polypro	20 VA

† "NSF Certified" - these products conform to the requirements of NSF Criteria C2 - Special and/or Devices.  
- for NSF label add prefix N to the part number when ordering.



A - actuation point is approximately midway of float travel in liquid with a specific gravity of 1.0.

UL Recognized  
File No. E 129277



CSA Approved  
File No. LR 90981

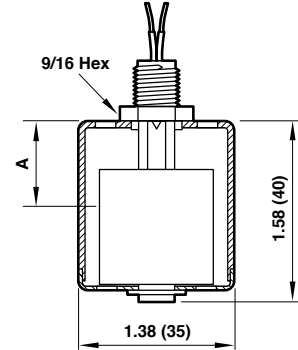


**LS 1 Series with Slosh Shield**

- Slosh shield provides a means of dampening turbulent fluids
- All Polypropylene construction ideal for beverage dispensing and ice machines
- Compact size allows for minimum displacement
- Easily adaptable to other switch types and float combinations for OEM applications

**Technical data**

<b>Maximum Pressure</b> @70° F	<b>Leadwire</b> Polypro Units 22 AWG, 24" long
<b>Foamed Float</b> 150 PSI (10.3 bar)	<b>Recommended Minimum</b> <b>Liquid SP GR</b> Foamed Polypro Float 0.72
<b>Hollow Float</b> 10 PSI (.69 bar)	Hollow Polypro Float 0.55
<b>Temp. Operating Range</b> Foamed Float -40°F to 150° F (-40°C to 66° C)	
Hollow Float (PP) -40°F to 150° F (-40°C to 66° C)	



A - actuation point is approximately midway of float travel in liquid with a specific gravity of 1.0.

UL Recognized  
File No. E 129277



CSA Approved  
File No. LR 90981



**LS 1 Series with Slosh Shield:**

Part Number	MTG	Stem Material	Float Material	Other Wetted Parts	Switch Rating
1347-001 <sup>†</sup> ◆	1/8" NPT	Polypro	Polypro	Polypro	20 VA
1347-002 <sup>†</sup> ◆	7/16-20 UNF	Polypro	Polypro	Polypro	20 VA
2841-024 ◆	1/8" NPT	Polypro	Hollow Polypro	Polypro	20 VA

† "NSF Certified" - these products conform to the requirements of NSF Criteria C2 - Special and/or Devices.  
- for NSF label add prefix N to the part number when ordering.

- In stock
- ◆ Ships within one week

**LS 1 Series Ultra Low Level**

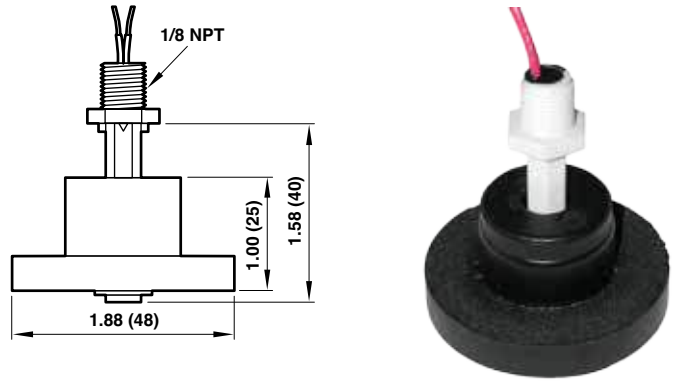
**Detect Liquids as Low as 5/8"**

**Reed switch is activated with float riding close to the surface of the liquid**

**Variety of stem materials to meet your specific requirements**

**Float can be combined with other floats on a miniature multi-level control only for a custom liquid level sensor to meet your needs**

**Available in different lead wire lengths, with connectors for OEM's**



**Technical data**

**Maximum Pressure**

50 PSI (3.4 bar)

**Temp. Operating Range**

-40° to 150°F in Water

(-40° to 82°C)

-40° to 225°F in Oil

(-40° to 107°C)

(Stainless and Brass)

**Mounting**

1/8" NPT

**Leads**

22 AWG, 24" long

**LS 1 Series Ultra Low Level:**

Part Number	Stem Material	Float Material	Other Material	Switch Rating
0768-024	◆ Polypro	Buna N	316 SS	20 VA N.C.
0769-024	◆ Brass	Buna N	316 SS	20 VA N.C.
0774-024	◆ 316 SS	Buna N	316 SS	20 VA N.C.

**LS 1 Series - Sidemount**

**Sidemounted unit ideal for tight spaces**

**Sidemount design fits small vessels**

**Minimal float travel and displacement**

**Highly chemical resistant**

**Technical data**

**Maximum Pressure**

Type B 70 PSI (4.8 bar)

Type P 40 PSI (2.8 bar)

**Temperature Range**

Type B -40°F to 176°F

(-40° to 80°C)

Type P -40°F to 176°F

(-40° to 80°C)

**Mounting**

PF 1/4

**Leads**

22 AWG, 24" long

**Recommended Minimum**

Type B .60

Liquid SP GR

Type P .80

**Type B**

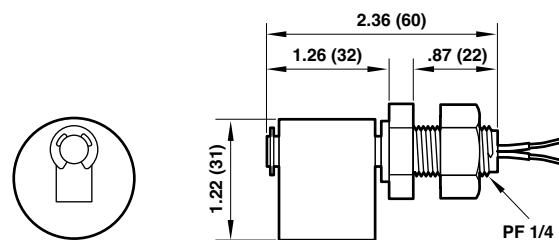


**Type P**



**LS 1 Sidemount Ordering Numbers**

Part Number	Stem Material	Float Material	Other Wetted Parts	Switch Rating
0508-024	◆ Polyacetal	Buna N	316 SS	20 VA
0509-024	◆ Polypro	Polypro	Polypro	20 VA



- In stock
- ◆ Ships within one week

**LS 11 Plastic Sidemount**

**Direct side mounted level controls in Polypropylene and PBT**

**All polypropylene construction offers broad fluid compatibility**

**Single unit offers normally open or normally closed operation**

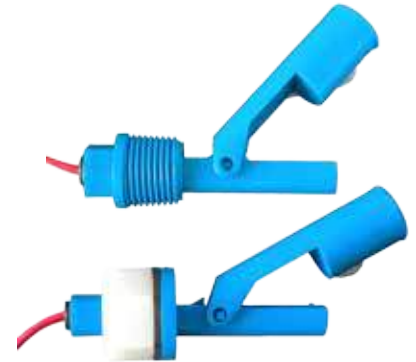
**Mounting available internally or direct external entry**

**Normally Open Dry Condition:**

Float rises with liquid level to stop, where upon switch closes.

**Normally Closed Dry Condition:**

Float falls with liquid level to stop, where upon switch closes. Actuation point is 15° +10° of float arc.



**Technical data**

**Maximum Pressure**

100 PSI (6.9 bar) @ 70°F

**Temp. Operating Range**

-40°F to 150°F

(-40° to 66°C)

Polypro

-40°F to 225°F

(-40° to 107°C) PBT

**Leads**

22 AWG, 24" long

**Recommended Minimum**

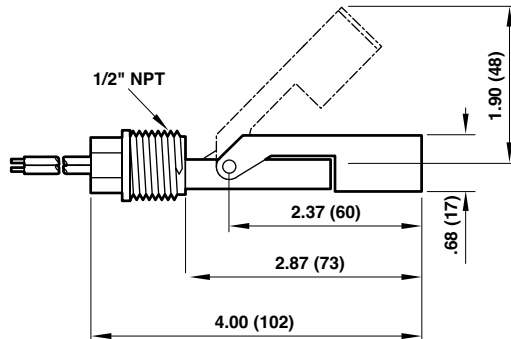
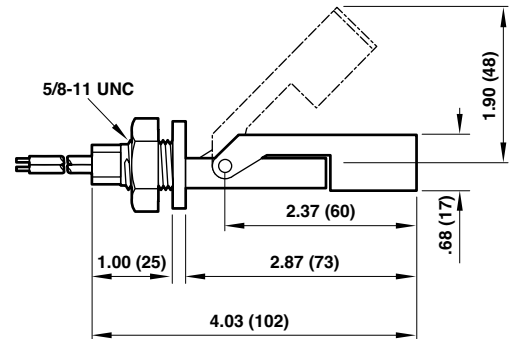
Liquid SP GR 0.65



**LS 11 Ordering Numbers:**

Part Number	Mounting	Material	Switch Rating
1870-024† ◆	1/2" NPT	Polypro	20 VA
1872-024† ◆	5/8-11 UNC	Polypro	20 VA
1873-024 ◆	5/8-11 UNC	PBT	20 VA

† "NSF Certified" - these products conform to the requirements of NSF Criteria C2 - Special and/or Devices.  
 - for NSF label add prefix N to the part number when calling



All Dimensions in Inches (mm)

- In stock
- ◆ Ships within one week

**25 BN Series—PTFE Float**

Spring biased PTFE float for high pressure applications

Small float design (.850 Dia.) provides flexibility for those tight spaces

Solid PTFE float design for pressures up to 1000 PSI

Variety of stem float combinations to meet your technical and cost requirements

**Technical data**

**Switch Rating**

SPST 20VA

**Operating Pressure**

1000 PSI Maximum (68.9 bar)

**Operating Temperature**

-40° to 300°F (-40 to 149°C)

**Float Material**

PTFE

**Other Wetted Materials**

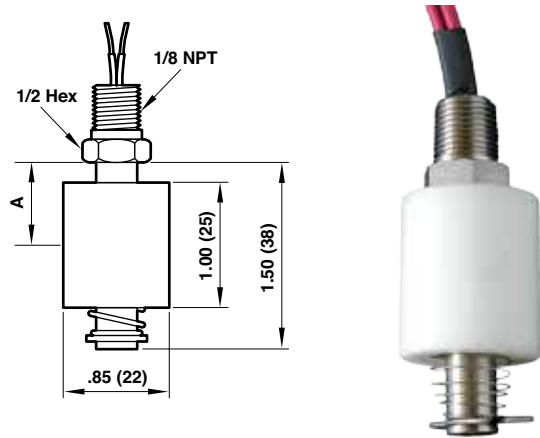
300 Series Stainless, Epoxy

**Leads**

22 AWG, 24" long

**Recommended Minimum**

Liquid SP GR 0.75



A - actuation point is approximately midway of float travel in liquid with a specific gravity of 1.0.

**25 BN Series Ordering Numbers:**

Part Number	Stem Material	Switch Rating
1275-024 ◆	316 SS	20 VA N.O. DRY*
1276-024 ◆	316 SS	20 VA N.C. DRY*

\* UL and CSA switch ratings are 20VA pilot duty rated; 120VAC - 240VAC  
PTFE is a registered trademark of E.I. Dupont De Nemours Co.

**25 BN Series**

Buna N general purpose single point detector

Small, compact size

Precise repeatability

Reliable, long-life performance

Highly resistant to shock and vibration

Stem available in 316 SS or Brass

**Technical data**

**Maximum Pressure**

150 PSI (10.3 bar)

**Temperature Operating Range**

-40° to 225°F

(-40° to 107°C) in oil

to 180°F (82°C) in water

**Mounting**

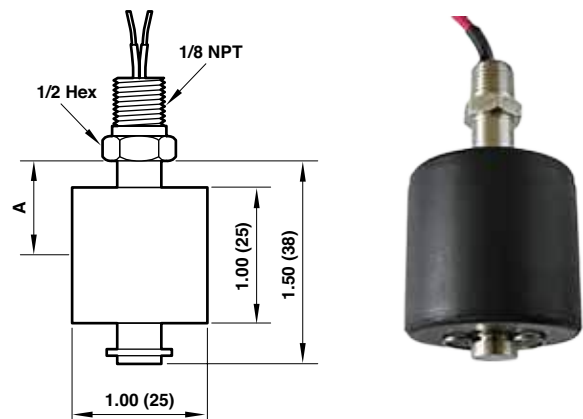
1/8" NPT

**Leads**

22 AWG, 24" long

**Recommended Minimum**

Liquid SP GR 0.50



A - actuation point is approximately midway of float travel in liquid with a specific gravity of 1.0.

**25 BN Series Ordering Numbers:**

Part Number	Stem Material	Float Material	Other Wetted Parts	Switch Rating
0105-024 ◆	316 SS	Buna N	316 SS	20 VA
0106-024 ◆	Brass	Buna N	316 SS	20 VA

UL Recognized  
File No. E 129277



CSA Approved  
File No. LR 90981



- In stock
- ◆ Ships within one week

### 50 BN moisture resistant liquid level switch

Construction provides maximum resistance to moisture, condensation or water.

Ideal for use in sumps or bilges

Construction can be adapted to other switches

Dual wall polyolefin shrink tubing resists moisture

#### Technical data

##### Maximum Pressure

150 PSI (10.3 bar)

##### Temperature

-40°F to 225°F

(-40°C to 107°C) in oil

##### Operating Range

-40°F to 180°F

(-40°C to 82°C) in water

##### Mounting

1/4" NPT

##### Leads

18 AWG, 36" long

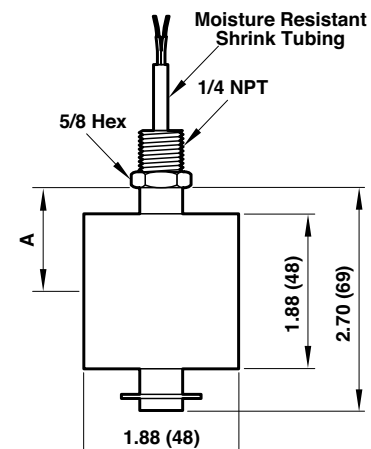
##### Recommended Minimum

Liquid SP GR 0.55



#### Liquid Level Switch Ordering Numbers:

Part Number	Stem / Float Material	Other Wetted Mounting Material	Switch Rating
1344-004 ◆	304 SS / Buna	Stainless / Epoxy	SPST 100 VA
1344-006 ◆	304 SS / 316 SS	316 SS	SPST 100 VA



A - actuation point is approximately midway of float travel in liquid with a specific gravity of 1.0.

- In stock
- ◆ Ships within one week



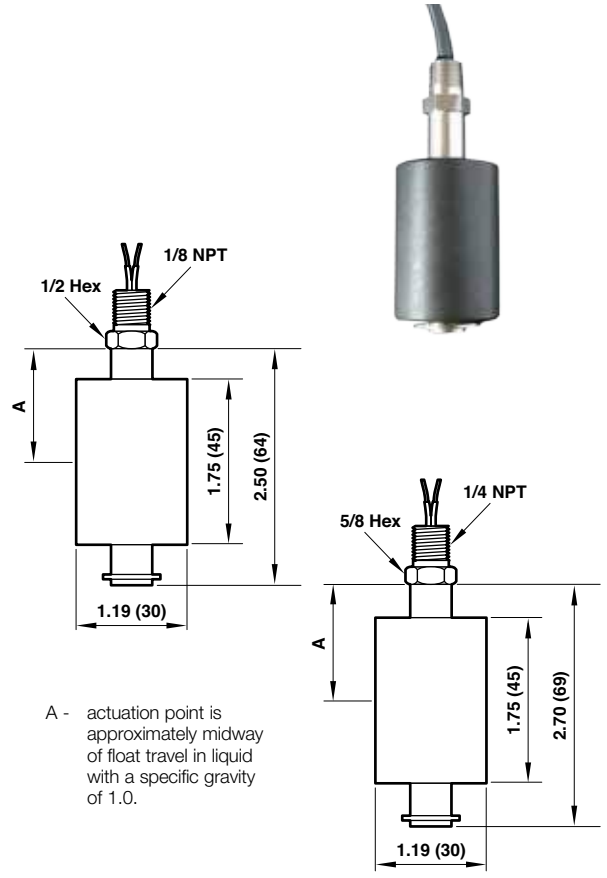
**50 BN Series Intermediate**  
**Intermediate size general purpose detector**  
**Highly reliable, yet inexpensive**  
**Compact, narrow displacement**  
**Stem available in 316 SS or Brass**  
**Long operating life**

**Technical data**

<b>Maximum Pressure</b> 150 PSI (10.3 bar)	<b>Mounting</b> 1/8" NPT - 1/4" NPT
<b>Temp. Operating Range</b> -40°F to 225°F (-40°C to 107°C) in oil -40°F to 180°F (-40°C to 82°C) in water	<b>Leads</b> 18 AWG, 24" long
	<b>Recommended Minimum</b> Liquid SP GR 0.58

**50 BN Series Inter. Ordering Numbers**

Part Number	MTG	Stem Material	Float Material	Other Wetted Parts	Switch Rating
0108-024	◆ 1/8"	316 SS	Buna N	316 SS	100 VA
0109-024	◆ 1/8"	Brass	Buna N	316 SS	100 VA
0500-024	◆ 1/4"	316 SS	Buna N	316 SS	100 VA
0501-024	◆ 1/4"	Brass	Buna N	316 SS	100 VA
0502-024	◆ 1/8"	316 SS	Buna N	316 SS	20 VA
0503-024	◆ 1/8"	Brass	Buna N	316 SS	20 VA
0504-024	◆ 1/4"	316 SS	Buna N	316 SS	20 VA
0505-024	◆ 1/4"	Brass	Buna N	316 SS	20 VA



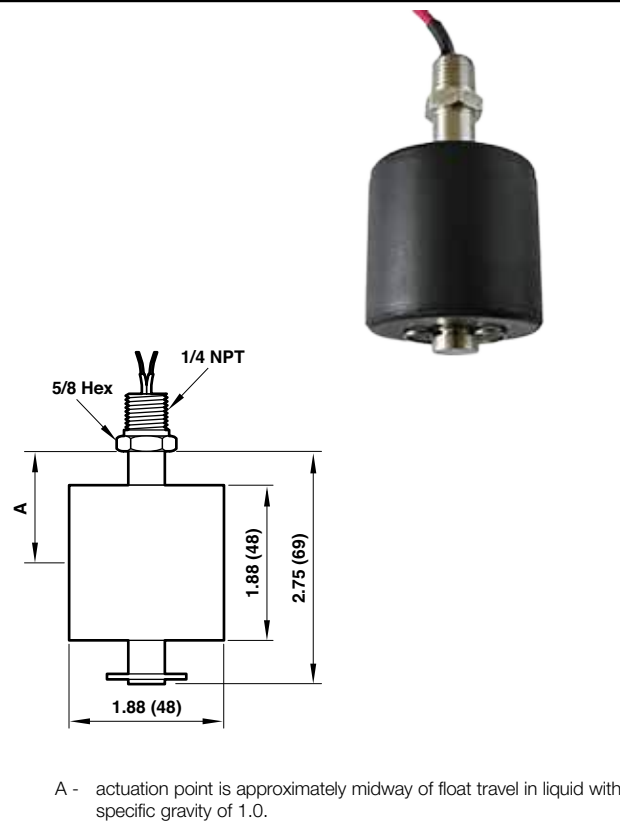
**50 BN Series Large**  
**Large size general purpose detector**  
**Large float provides maximum displacement in high viscosity fluids**  
**Can be easily extended to multiple float arrangement up to 72" long**  
**Rugged design for heavy duty service**

**Technical data**

<b>Maximum Pressure</b> 150 PSI (10.3 bar)	<b>Mounting</b> 1/4" NPT
<b>Temp. Operating Range</b> -40°F to 225°F (-40°C to 107°C) in oil -40°F to 180°F (-40°C to 82°C) in water	<b>Leads</b> 18 AWG, 24" long
	<b>Recommended Minimum</b> Liquid SP GR 0.55

**50 BN Series Large Ordering Numbers:**

Part Number	MTG	Stem Material	Float Material	Other Wetted Parts	Switch Rating
0512-024	◆ 1/4"	316 SS	Buna N	316 SS	100 VA
0513-024	◆ 1/4"	Brass	Buna N	316 SS	100 VA
0515-024	◆ 1/4"	Brass	Buna N	316 SS	20 VA



- In stock
- ◆ Ships within one week

A - actuation point is approximately midway of float travel in liquid with a specific gravity of 1.0.

**35 SS Series**

**Compact stainless steel detector for high corrosive, high temperature applications**

**Compact size**

**Long operating life**

**Highly resistant to shock and vibration**

**Technical data**

**Maximum Pressure**

275 PSI (19.0 bar)

**Temp. Operating Range**

-40° to 300°F (-40° to 149°C)

**Mounting**

1/8" NPT

**Leads**

22 AWG, 24" long

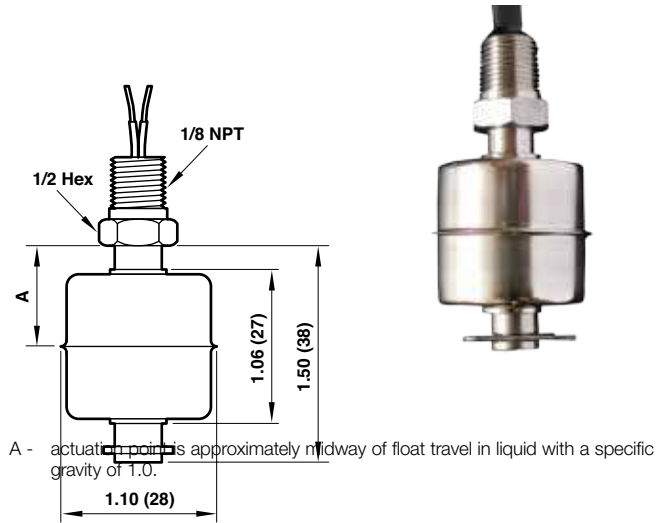
**Recommended Minimum**

Liquid SP GR 0.80

**35 SS Series Ordering Numbers:**

Part Number	Stem Material	Float Material	Other Wetted Parts	Switch Rating
0511-024	Brass	304 SS	316 SS	20VA*

\* UL and CSA switch ratings are 20VA pilot duty rated; 120VAC - 240VAC



UL Recognized  
File No. E 129277



CSA Approved  
File No. LR 90981



**35 SS Series - Sidemount**

**"Bent Stem" level control for mounting through tank walls**

**90° bend allows for side mounting where access to tank top and bottom is restricted**

**Available in all 316 SS construction**

**Technical data**

**Maximum Pressure**

SS  
275 PSI (19.0 bar)

Buna

150 PSI (10.3 bar)

**Temp. Operating Range**

-40°F to 300°F (-40°C to 149°C)

**Buna Float**

-40°F to 225°F

(-40°C to 107°C) in oil

-40°F to 180°F

(-40°C to 82°C) in water

**Mounting**

3/8 - 24

**Leads**

22 AWG, 24" long

**Recommended Minimum**

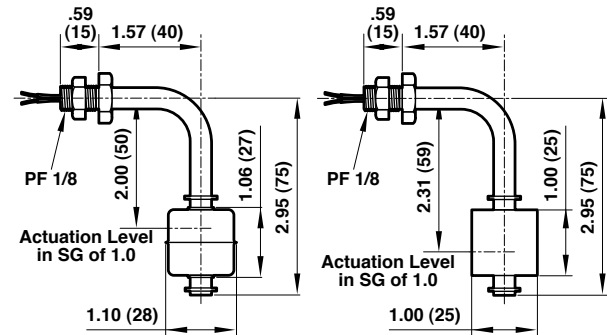
Liquid SP GR

SS 0.80

Buna 0.50

**35 SS Series Sidemount Ordering Numbers:**

Part Number	Stem Material	Float Material	Other Wetted Parts	Switch Rating
2350-024	316 SS	316 SS	PH 15-7 MO	20 VA
2351-024	316 SS	Buna	PH 15-7 MO	20 VA
2352-024	Brass	316 SS	Beryllium Copper	20 VA



L1 Dimension is Actuation Level in Liquid Specific Gravity of 1.0

- In stock
- ◆ Ships within one week

**40 SS Series Sidemount**

- Direct side mounted level controls
- Precise repeatability
- Ease of installation
- Internal and external mounting available

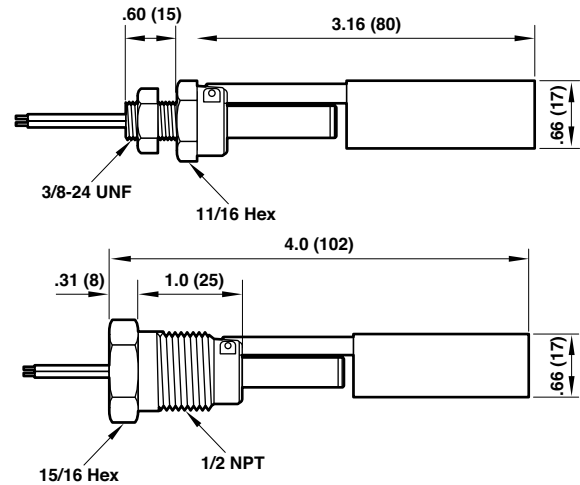
**Technical data**

<b>Maximum Pressure</b> 400 PSI (27.6 bar)	<b>Leads</b> 22 AWG, 24" long
<b>Temp. Operating Range</b> -40° to 300°F (-40° to 149°C)	<b>Recommended Minimum</b> Liquid SP GR 0.58



**40 SS Series Sidemount Ordering Numbers:**

Part Number	Mounting	Stem Material	Other Wetted Materials	Switch Rating
3736-024 ◆	3/8-24 UNF	316 SS	304 SS	20 VA
3735-024 ◆	1/2" NPT	316 SS	304 SS	20 VA



- In stock
- ◆ Ships within one week

### 50 SS Series low specific gravity

Buoyant float design for media with specific gravity as low as .40

Ideal for use as a high, low or intermediate level alarm in the storage of propane and butane

Float design can be adapted to multi-level configuration for total control

Temperature range of -40°F to 300°F

#### Technical data

**Maximum Pressure**

300 PSI (20.7 bar)

**Temp. Operating Range**

-40°F to 300°F (-40°C to 149°C)

**Mounting**

1/2" NPT

**Lead Wires**

18 AWG, 24" long

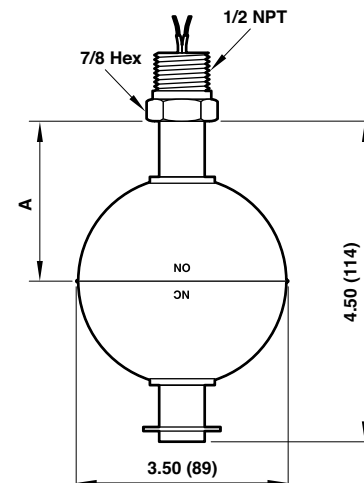
**Recommended Minimum**

Liquid SP GR0 0.40



#### Low Gravity Float Ordering Numbers:

Part Number	Stem / Float Material	Other Wetted Materials	Switch Rating
1348-004 ◆	316 SS / 316 SS	Stainless Steel	SPST 20 VA
1348-005 ◆	316 SS / 316 SS	Stainless Steel	SPST 100 VA
1348-006 ◆	316 SS / 316 SS	Stainless Steel	SPDT 20 VA



A - actuation point is approximately midway of float travel in liquid with a specific gravity of 1.0.

- In stock
- ◆ Ships within one week

**50 SS Series**

**Stainless steel detector for high pressure, corrosive and high temperature applications**

**All stainless steel wetted surfaces**

**High resistance to corrosive chemicals**

**Operates in high temperatures**

**Operates in high pressure environments**



**Technical data**

**Maximum Pressure**

750 PSI (51.7 bar)

**Temp. Operating Range**

-40°F to 300°F (-40°C to 149°C)

**Mounting**

1/4" NPT

**Leads**

18 AWG, 24" long

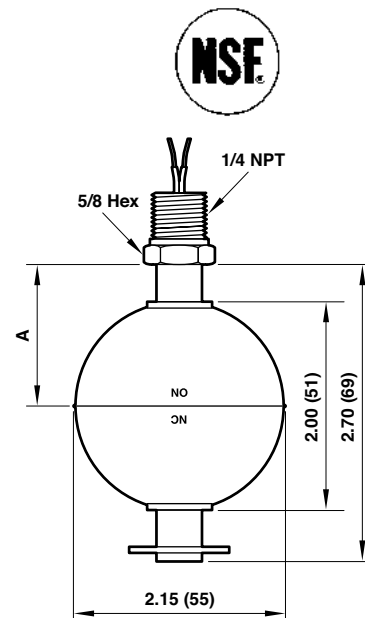
**Recommended Minimum**

Liquid SP GR. 0.73

**50 SS Series Ordering Numbers:**

Part Number	Stem Material	Float Material	Other Wetted Parts	Switch Rating
0110-024† ◆	316 SS	316 SS	316 SS	100 VA
0521-024† ◆	316 SS	316 SS	316 SS	20 VA

† "NSF Certified" - these products conform to the requirements of NSF Criteria C2 - Special and/or Devices.  
 - for NSF label add prefix N to the part number when ordering.



A - actuation point is approximately midway of float travel in liquid with a specific gravity of 1.0.

- In stock
- ◆ Ships within one week



## DEF (DIESEL EXHAUST FLUID) TANK HEATING

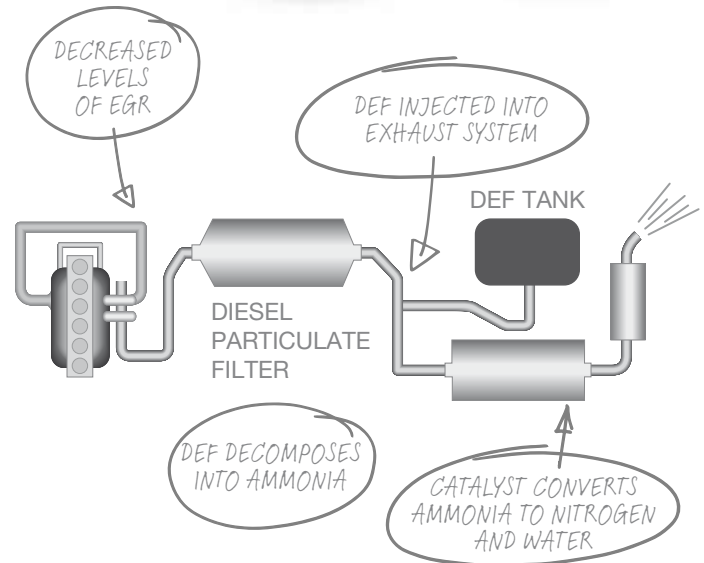
### » CUSTOMER APPLICATION

Coolant circuit shut-off valve for medium and heavy duty truck DEF Tank Heating Circuits.

### » IMI NORGREN CV SOLUTION

Valve regulating the flow of coolant to the DEF/Urea holding tank for temperature regulation in cold ambient temperatures.

- » Suitable for all engine applications, either on or off highway
- » Applicable for all EPA 2010 and Euro VI SCR systems
- » Reliably used in the field since 2004
- » Fully interchangeable fittings
- » Electrical connector orientation can be modified to meet customer requirements
- » Damped closing – to reduce strain on the components within the cooling system



### » CUSTOMER BENEFIT

- » Production proven design for medium and heavy duty commercial vehicles and off road vehicles
- » Damped closing valve to improve cooling system component life
- » High flow rate for fast heat up of DEF

# NUT/THREAD SENSORS

## NAS NUT AND THREAD SENSORS SOLUTIONS

### NUT AND THREAD DETECTION SYSTEMS:

- > **REDUCE COSTLY PRODUCT REJECTS**
- > **DETECT MISSING NUTS AT THE WELD STATION**
- > **VERIFY THREAD PRESENCE OR QUALITY**
- > **ARE SENSITIVE**
- > **EASY TO CALIBRATE**
- > **AFFORDABLE**

NORGREN AUTOMATION SOLUTIONS IS A LEADER IN ENGINEERED SOLUTIONS FOR THE AUTOMOTIVE AND AUTOMATION INDUSTRY.

In car assemblies, an automatic system welds nuts to sheet metal so auto body parts can be bolted together later. If a nut is missing or not aligned with the hole, the part may have to be scrapped. But these nuts are often hidden from view, making visual inspection slow and costly. Existing hidden part sensors could measure thickness, (indicating whether a nut was present) but they were expensive and difficult to configure into a workable package. Automotive manufacturers needed a sensor that was:

**Sensitive**

**Easy to calibrate**

**Affordable**

NAS MET THE CUSTOMER CHALLENGE

Manufacturers now have a probe that is:

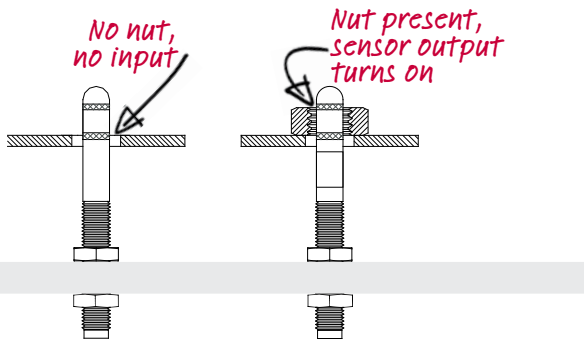
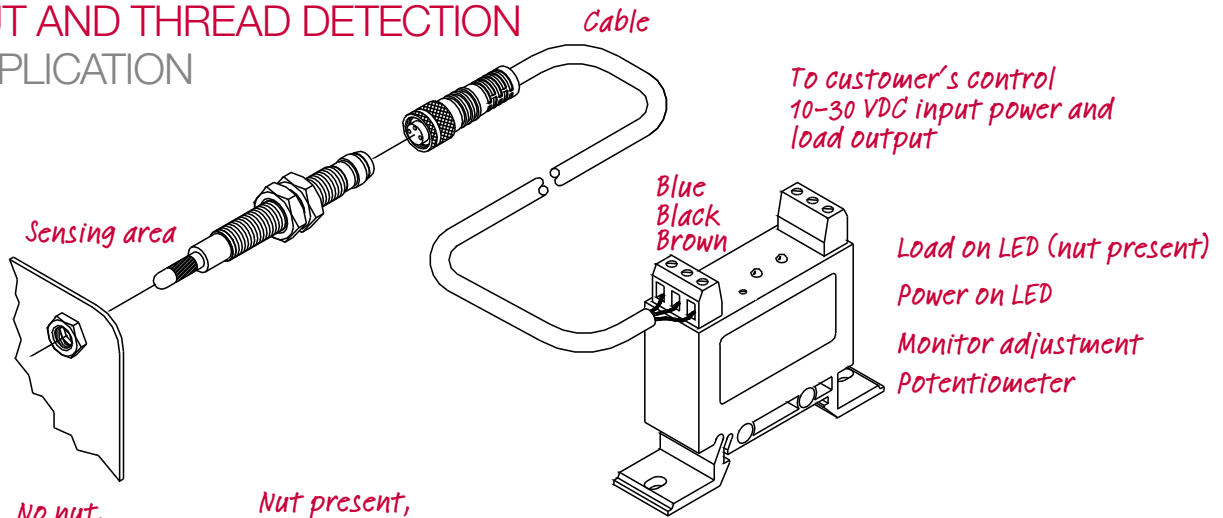
**PRECISE** – The sensor easily detects whether a nut is present or absent. Furthermore, it can be calibrated to detect thread quality using a simple hand adjustment and an LED indicator.

**AGILE** – An optional spring mount allows the probe to retract without damage if a hole is missing. The probe can also offset up to five degrees when a hole and nut are misaligned.

**COST-EFFECTIVE** – Not only does the new radial sensor technology make the probe affordable, but manufacturers realize significant savings by eliminating manual inspections and avoiding scrap of costly car assemblies.

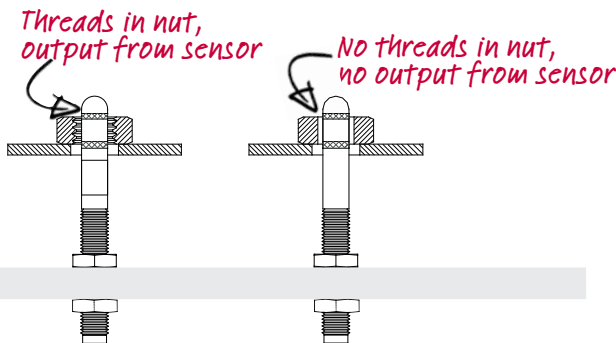


# NUT AND THREAD DETECTION APPLICATION



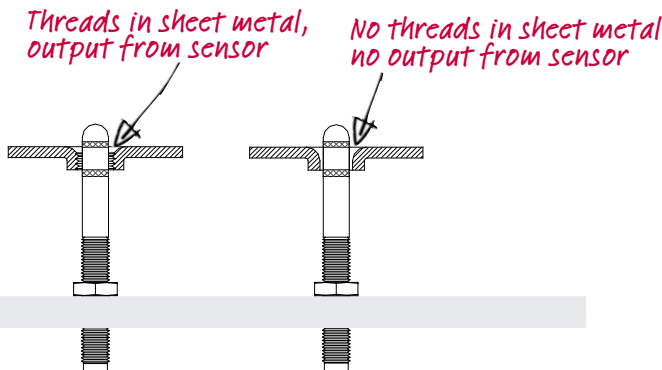
### NUT DETECTION

The probe can be used to verify nut presence prior to allowing the weld process to proceed or immediately after the attachment process to verify nut presence.



### THREAD DETECTION IN NUTS OR SHEET METAL

SNP probes can be calibrated to detect missing threads in nuts or sheet metal.





# Fast Find Guide

## NUT/THREAD SENSORS



## TOUGHENED NUT/THREAD SENSORS



## MONITORS FOR NUT/THREAD SENSORS



## NUT/THREAD SENSOR SPRING MOUNT



## CABLES AND CONNECTORS



**Abrasion and impact resistant.**

**For light duty applications with sensor tip radial loads up to 30 lbs.**

**Exceptional for thread detection and thread quality detection.**

**Immune to weld fields and resistant to weld slag.**

**Minimum nut thickness is;**

**4.0mm (.16") for M5 nut**

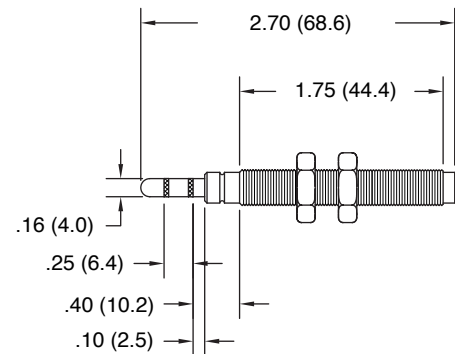
**5.0mm (.20") for M6 nut**

**6.5mm (.26") for M8 nut**

**Maximum blank thickness is 1.6mm (0.06")**



Dimensions Inches (mm)



### Technical data

#### Sensor connector:

3-pin (male) 8mm (pico) connector

#### Operating temperature range:

32°F to 212°F (0°C to 100°C)

#### Target material:

Ferrous/Non-Ferrous

### M5 Nut/Thread Detector System

Sensor	Monitor	Cable	Spring mount	Weight
SNP50608 ●	SMR36005 (NPN) ●	SCE13000 6 ft (2m) Straight ●	SAB30403 ●	0.029 lbs / 13 gm
	SMR37005 (PNP) ●	SCE13005 16 ft (5m) Straight ●		
		SCE13001 6 ft (2m) Angled ●		
		SCE13005RA 16 ft (5m) Angled ●		

### M6 Nut/Thread Detector System

Sensor	Monitor	Cable	Spring mount	Weight
SNP50608 ●	SMR36006 (NPN) ●	SCE13000 2m (6ft) ●	SAB30403 ●	0.029 lbs / 13 gm
	SMR37006 (PNP) ●	SCE13001 2m (6ft) (Angled) ●		
		SCE13001 6 ft (2m) Angled ●		
		SCE13005RA 16 ft (5m) Angled ●		

### M8 Nut/Thread Detector System

Sensor	Monitor	Cable	Spring mount	Weight
SNP50608 ●	SMR36008 (NPN) ●	SCE13000 2m (6ft) ●	SAB30403 ●	0.029 lbs / 13 gm
	SMR37008 (PNP) ●	SCE13001 2m (6ft) (Angled) ●		
		SCE13001 6 ft (2m) Angled ●		
		SCE13005RA 16 ft (5m) Angled ●		

● In stock

◆ Ships within one week

**Abrasion and impact resistant.**

**For light duty applications with sensor tip radial loads up to 35 lbs.**

**Exceptional for thread detection and thread quality detection.**

**Immune to weld fields and resistant to weld slag.**

**Minimum nut thickness is:**

**8.0mm (.31") for M10 nut**

**10.0mm (.39") for M12 nut**

**Maximum blank thickness is 2.5mm (.10")**



**Technical data**

**Sensor connector:**

3-pin (male) 8mm (pico) connector

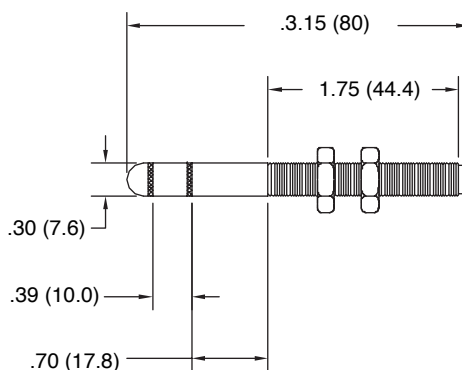
**Operating temperature range:**

32°F to 212°F (0°C to 100°C)

**Target material:**

Ferrous/Non-Ferrous

Dimensions Inches (mm)



**M10 Nut/Thread Detector System**

Sensor	Monitor	Cable	Spring mount	Weight
SNP01012 ●	SMR36010 (NPN) ●	SCE13000 6 ft (2m) Straight ●	SAB30403 ●	0.037 lbs/ 17 gm
	SMR37010 (PNP) ●	SCE13005 16 ft (5m) Straight ●		
		SCE13001 6 ft (2m) Angled ●		
		SCE13005RA 16 ft (5m) Angled ●		

**M12 Nut/Thread Detector System**

Sensor	Monitor	Cable	Spring mount	Weight
SNP01012 ●	SMR36012 (NPN) ●	SCE13000 6 ft (2m) Straight ●	SAB30403 ●	0.037 lbs/ 17 gm
	SMR37012 (PNP) ●	SCE13005 16 ft (5m) Straight ●		
		SCE13001 6 ft (2m) Angled ●		
		SCE13005RA 16 ft (5m) Angled ●		

- In stock
- ◆ Ships within one week

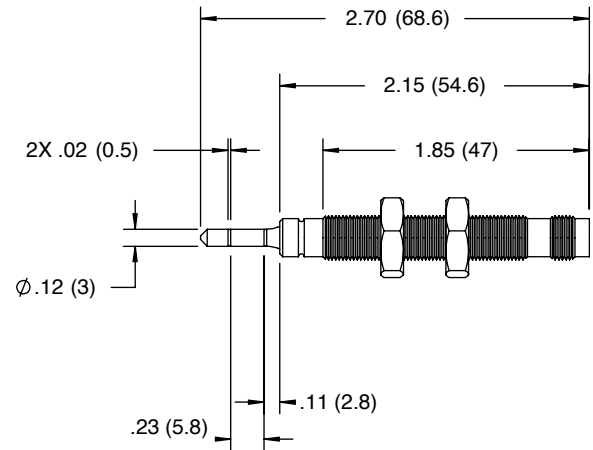
For heavy duty applications with sensor tip radial loads up to 32 lbs.  
 For use in weld applications  
 Immune to weld fields and resistant to weld slag.  
 Can be used to detect thread presence  
 Minimum nut thickness is 4.0 mm (.16")  
 Maximum blank thickness is 1.6mm (.06")



**Technical data**

**Sensor connector:**  
 3-pin (male) 8mm (pico) connector  
**Operating temperature range:**  
 32°F to 212°F (0°C to 100°C)  
**Target material:**  
 Ferrous/Non-Ferrous

Dimensions Inches (mm)



**M4 Nut/Thread Detector System**

Sensor	Monitor	Cable	Spring mount	Weight
SNS04 ●	SMH36004 (NPN) ● SMH37004 (PNP) ●	SCE13000 6 ft (2m) Straight ● SCE13005 16 ft (5m) Straight ● SCE13001 6 ft (2m) Angled ● SCE13005RA 16 ft (5m) Angled ●	SAB30403 ●	0.019 lbs / 9 gm

- In stock
- ◆ Ships within one week

For heavy duty applications with sensor tip radial loads up to 38 lbs.  
 For use in weld applications  
 Immune to weld fields and resistant to weld slag.  
 Can be used to detect thread presence  
 Minimum nut thickness is 4.0 mm (.16")  
 Maximum blank thickness is 1.6mm (.06")



**Technical data**

**Sensor connector:**

3-pin (male) 8mm (pico) connector

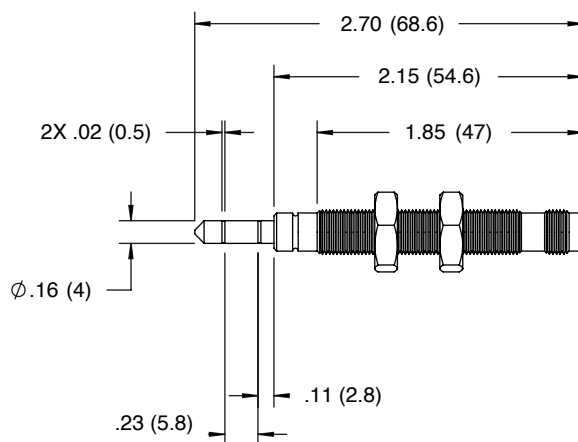
**Operating temperature range:**

32°F to 212°F (0°C to 100°C)

**Target material:**

Ferrous/Non-Ferrous

Dimensions Inches (mm)



**M5 Nut/Thread Detector System**

Sensor	Monitor	Cable	Spring mount	Weight
SNS05 ●	SMH36005 (NPN) ● SMH37005 (PNP)	SCE13000 6 ft (2m) Straight ● SCE13005 16 ft (5m) Straight SCE13001 6 ft (2m) Angled ● SCE13005RA 16 ft (5m) Angled ●	SAB30403 ●	0.019 lbs / 9 gm

- In stock
- ◆ Ships within one week

**For Heavy Duty Applications with sensor tip radial loads up to 50 lbs.**

**For use in weld applications.**

**Immune to weld fields and resistant to weld slag.**

**Can be used to detect thread presence.**

**Can be used as a locating pin.**

**Minimum nut thickness is 5.0mm (.20") for M6 nut**

**Maximum blank thickness is 1.6mm (.06")**



### Technical data

**Sensor connector:**

3-pin (male) 8mm (pico) connector

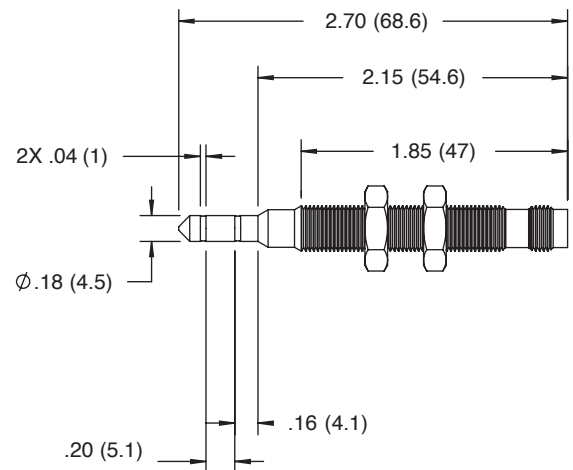
**Operating temperature range:**

32°F to 212°F (0°C to 100°C)

**Target material:**

Ferrous/Non-Ferrous

Dimensions Inches (mm)



### M6 Nut/Thread Detector System

Sensor	Monitor	Cable	Spring mount	Weight
SNS06 ●	SMH36006 (NPN) ●	SCE13000 6 ft (2m) Straight ●	SAB30403 ●	0.037 lbs / 17 gm
	SMH37006 (PNP) ●	SCE13005 16 ft (5m) Straight ●		
		SCE13001 6 ft (2m) Angled ●		
		SCE13005RA 16 ft (5m) Angled ●		

● In stock

◆ Ships within one week

**For heavy duty applications with sensor tip radial loads up to 38 lbs.**  
**For use in weld applications**  
**Immune to weld fields and resistant to weld slag.**  
**Can be used to detect thread presence**  
**Minimum nut thickness is 6.5mm (.26") for M8 nut**  
**Maximum blank thickness is 1.6mm (.06")**



**Technical data**

**Sensor connector:**

3-pin (male) 8mm (pico) connector

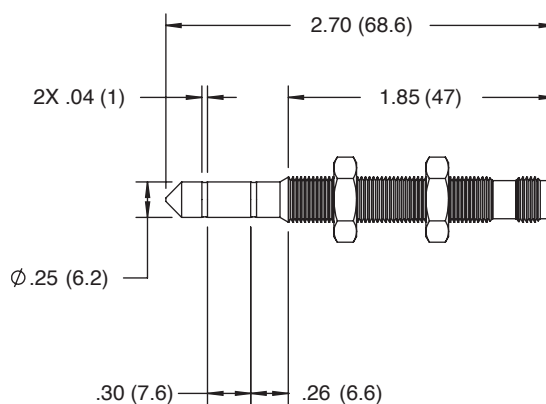
**Operating temperature range:**

32°F to 212°F (0°C to 100°C)

**Target material:**

Ferrous/Non-Ferrous

Dimensions Inches (mm)



**M6 Nut/Thread Detector System**

Sensor	Monitor	Cable	Spring mount	Weight
SNS08 ●	SMH36008 (NPN) ●	SCE13000 6 ft (2m) Straight ●	SAB30403 ●	0.033 lbs / 15 gm
	SMH37008 (PNP) ●	SCE13005 16 ft (5m) Straight ●		
		SCE13001 6 ft (2m) Angled ●		
		SCE13005RA 16 ft (5m) Angled ●		

- In stock
- ◆ Ships within one week

**For heavy duty applications with  
sensor tip radial loads up to 40 lbs.**

**For use in weld applications**

**Immune to weld fields and resistant to weld slag.**

**Can be used to detect thread presence**

**Minimum nut thickness is 8.0 mm (.31")**

**Maximum blank thickness is 2.5mm (.10")**



### Technical data

**Sensor connector:**

4-pin (male) 12mm (pico) connector

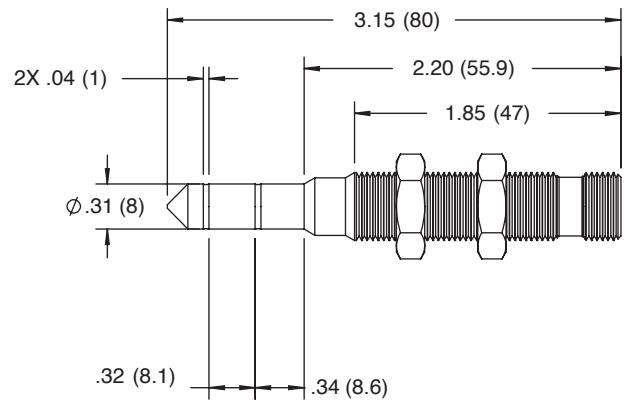
**Operating temperature range:**

32°F to 212°F (0°C to 100°C)

**Target material:**

Ferrous/Non-Ferrous

Dimensions Inches (mm)



### M10 Nut/Thread Detector System

Sensor	Monitor	Cable	Weight
SNS10 ●	SMH36010 (NPN) ●	SCF12060 6 ft (2M) Straight ●	0.082 lbs / 37 gm
	SMH37010 (PNP) ●	SCF12160 6ft (2M) Angled ●	

- In stock
- ◆ Ships within one week



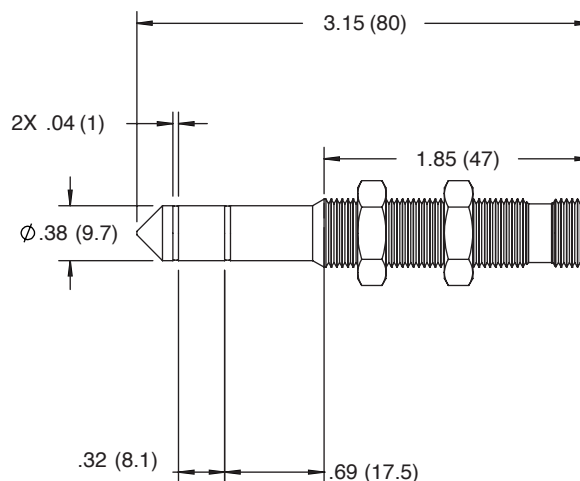
**For heavy duty applications with  
sensor tip radial loads up to 60 lbs.  
For use in weld applications  
Immune to weld fields and resistant to weld slag.  
Can be used to detect thread presence  
Minimum nut thickness is 10.0 mm (.39")  
Maximum blank thickness is 2.5mm (.10")**



**Technical data**

**Sensor connector:**  
4-pin (male) 12mm (pico) connector  
**Operating temperature range:**  
32°F to 212°F (0°C to 100°C)  
**Target material:**  
Ferrous/Non-Ferrous

Dimensions Inches (mm)



**M12 Nut/Thread Detector System**

Sensor	Monitor	Cable	Weight
SNS12 ●	SMH36012 (NPN) ●	SCF12060 6 ft (2M) Straight ●	0.082 lbs / 37 gm
	SMH37012 (PNP) ●	SCF12160 6ft (2M) Angled ●	

- In stock
- ◆ Ships within one week

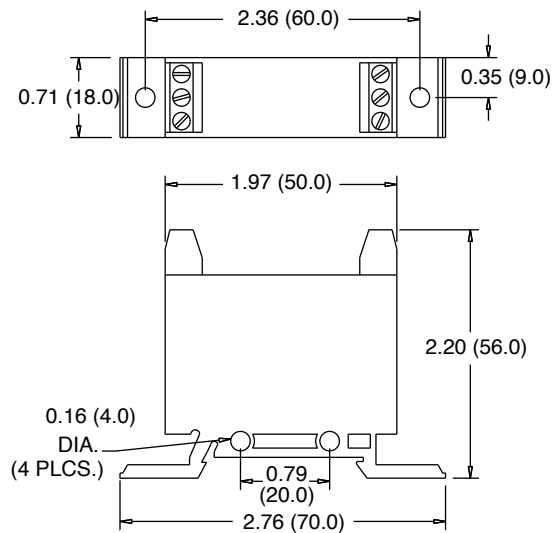
**Abrasion and impact resistant.**  
**LED for on/off status of sensor.**  
**Interface directly to programmable controllers**

**Technical data**

- Sensor connector:**  
2 X 3-pin terminal strips
- Supply Voltage Range:**  
10VDC to 30 VDC
- Maximum Load Current:**  
180mA
- Operating temperature range:**  
32°F to 140°F (0°C to +60°C)
- Response time:**  
25ms turn-on, 25ms turn-off
- Indicator lights:**  
GREEN: DC power connect  
AMBER: Target detected
- Target material:**  
Ferrous/Non-Ferrous
- Short circuit protection:**  
Yes
- Overload protection:**  
Yes
- Weight:**  
.091 lbs / 41 gms



Dimensions Inches (mm)



**System**

System	Sensor	Monitor	Switch type	Cable
M5 Nut Detector	SNP50608 ●	SMR36005 (NPN) ● SMR37005 (PNP) ●	Current sinking Current sourcing	
M6 Nut Detector	SNP50608 ●	SMR36006 (NPN) ● SMR37006 (PNP) ●	Current sinking Current sourcing	SCE13000 6 ft (2m) Straight ● SCE13005 16 ft (5m) Straight ●
M8 Nut Detector	SNP50608 ●	SMR36008 (NPN) ● SMR37008 (PNP) ●	Current sinking Current sourcing	SCE13001 6 ft (2m) Angled ● SCE13005RA 16 ft (5m) Angled ●
M10 Nut Detector	SNP01012 ●	SMR36010 (NPN) ● SMR37010 (PNP) ●	Current sinking Current sourcing	
M12 Nut Detector	SNP01012 ●	SMR36012 (NPN) ● SMR37012 (PNP) ●	Current sinking Current sourcing	

- In stock
- ◆ Ships within one week

**Abrasion and impact resistant.**  
**LED for on/off status of sensor.**  
**Interface directly to programmable controllers**

**Technical data**

**Power/sensor connector:**  
2 X 3-pin terminal connector

**Supply voltage range:**  
10VDC to 30 VDC

**Maximum load current:**  
180mA

**Operating temperature range:**  
32°F to 140°F (0°C to +60°C)

**Response time:**  
25ms turn-on, 25ms turn-off

**Indicator lights:**  
GREEN: DC power connect  
AMBER: Target detected

**Target material:**  
Ferrous/Non-Ferrous

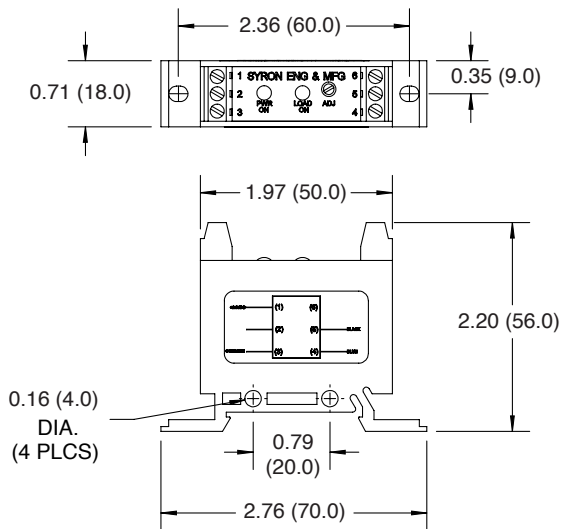
**Short circuit protection:**  
Yes

**Overload protection:**  
Yes

**Weight:**  
.091 lbs / 41 gms



Dimensions Inches (mm)



**System**

System	Sensor	Monitor	Switch type	Cable
M4 Toughened Nut Detector	SNS04 ●	SMH36004 (NPN) ● SMH37004 (PNP) ●	Current sinking Current sourcing	
M5 Toughened Nut Detector	SNS05 ●	SMH36005 (NPN) ● SMH37005 (PNP) ●	Current sinking Current sourcing	SCE13000 6 ft (2m) Straight ● SCE13005 16 ft (5m) Straight ● SCE13001 6 ft (2m) Angled ● SCE13005RA 16 ft (5m) Angled ●
M6 Toughened Nut Detector	SNS06 ●	SMH36006 (NPN) ● SMH37006 (PNP) ●	Current sinking Current sourcing	
M8 Toughened Nut Detector	SNS08 ●	SMH36008 (NPN) ● SMH37008 (PNP) ●	Current sinking Current sourcing	
M10 Toughened Nut Detector	SNS10 ●	SMH36010 (NPN) ● SMH37010 (PNP) ●	Current sinking Current sourcing	SCF12060 6 ft (2M) Straight ● SCF12160 6ft (2M) Angled ●
M12 Toughened Nut Detector	SNS12 ●	SMH36012 (NPN) ● SMH37012 (PNP) ●	Current sinking Current sourcing	

- In stock
- ◆ Ships within one week

**For mounting the Nut Sensor.**

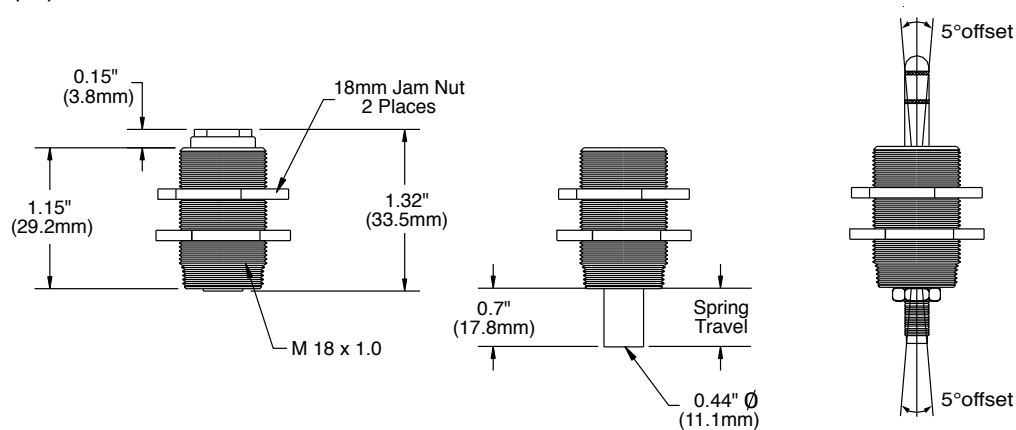
**Allows sensor probe to retract when nut is out of place.**

**Allows sensor tip to offset up to 5° off centerline of spring mount to locate misaligned holes.**


**Technical data**
**Weight:**

53 grams

NOTE: Nut Sensor Spring Mounts are compatible with all Nut Sensors except the SNS10 and SNS12.

**Dimensions Inches (mm)**

**Nut/Thread Sensor Spring Mount**

Sensor	Weight
SAB30403 ●	1.87 oz. / 53 gm

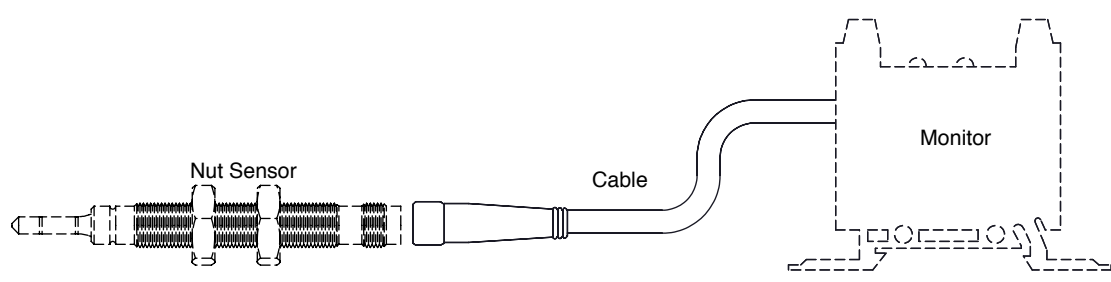
- In stock
- ◆ Ships within one week

Pre-wired M8 & M12 Cables





Technical data

Operating temperature:  
32°F to 140°F (0°C to 60°C)

Dimensions Inches (mm)



Models

Part number	Pin connection	Connector shape	Cable length
 <b>SCE13000</b> ●	3 pin M8	Straight	6 ft (2m) long
<b>SCE13005</b> ●	3 pin M8	Straight	16 ft (5m) long
 <b>SCE13001</b> ●	3 pin M8	Angled	6 ft (2m) long
<b>SCE13005RA</b> ●	3 pin M8	Angled	16 ft (5m) long
 <b>SCF12060</b> ●	4 pin M12	Straight	6 ft (2m) long
 <b>SCF12160</b> ●	4 pin M12	Angled	6 ft (2m) long

- In stock
- ◆ Ships within one week

## Case study

**Location:** Michigan, USA

**Customer:** Automotive manufacturer

**Growth driver:**



## Detector for nuts, threads reduces scrap

### Requirement

In car assemblies, an automatic system welds nuts to sheet metal so auto body parts can be bolted together later. If a nut is missing or not aligned with the hole, the part may have to be scrapped. But these nuts are often hidden from view, making visual inspection slow and costly. Existing hidden part sensors could measure thickness, (indicating whether a nut was present) but they were expensive and difficult to configure into a workable package. Automotive manufacturers needed an affordable sensor that was sensitive enough to detect the presence of a nut and easy to calibrate to detect thread quality.

### Solution

Using their expertise in inductive proximity sensing, where a probe emits an oscillating signal, automation experts at IMI Precision Engineering developed the first-ever radial probe sensor. The probe is inserted through the hole in the sheet metal and sends a signal back to a monitor. The operating frequency of the signal indicates whether the nut is present or absent. The sensor can be calibrated to detect thread quality using a simple hand adjustment and an LED indicator. An optional spring mount allows the probe to retract without damage if a hole is missing. Radial sensor technology makes the probe affordable, and manufacturers realize significant savings by eliminating manual inspections and avoiding scrap of costly car assemblies.

*Engineering  
GREAT Solutions*



# AIR PREPARATION PRODUCTS



In this section you will find a whole family of air preparation products. Tried and tested Excelon ranges, miniature and large capacity units. We list units for general purpose use and more specialized applications - precision regulators, stainless steel units, valves for safety critical situations, etc.

Use the fast find guide to identify the right product to get the job done quickly. PDF datasheets are available online via our website or call the team for rapid quotation and delivery.

# Fast Find Guide

## EXCELON® – MODULAR SYSTEM

<p><b>Modular system Box sets</b> 1/4" to 3/4"</p>  <p>APP-05</p>	<p><b>General purpose filters</b> F72G, F73G, F74G 1/4" to 3/4"</p>  <p>APP-06</p>	<p><b>Oil removal filters</b> F72C, F73C, F74C, F74H 1/4" to 3/4"</p>  <p>APP-08</p>	<p><b>Oil vapor removal filters</b> F72V, F74V 1/4" to 3/4"</p>  <p>APP-10</p>	<p><b>Manifold regulators</b> R72M, R74M 1/4" and 1/2"</p>  <p>APP-11</p>	<p><b>Pressure regulators</b> R72G, R73G, R74G 1/4" to 3/4"</p>  <p>APP-12</p>
<p><b>Filter/regulators</b> B72G, B73G, B74G 1/4" to 3/4"</p>  <p>APP-14</p>	<p><b>Lubricators</b> L72, L73, L74 1/4" to 3/4"</p>  <p>APP-16</p>	<p><b>Pressure relief valves</b> V72G, V74G 1/4" to 3/4"</p>  <p>APP-18</p>	<p><b>Lockout valves</b> T72, T73, T74 1/4" to 3/4"</p>  <p>APP-19</p>	<p><b>Soft start/dump valves</b> P72F, P74F 1/4" to 3/4"</p>  <p>APP-20</p>	<p><b>Filter-Regulator-Lubricator combination units</b> 3/8", 1/2"</p>  <p>APP-21</p>
<p><b>Filter/regulator-lubricator combination units</b></p>  <p>APP-22</p>	<p><b>Excelon® W74D Desiccant Compressed Air Dryer</b> 3/8", 1/2"</p> <p><i>new*</i></p>  <p>APP-23</p>				

## OLYMPIAN PLUS PLUG-IN SYSTEM

<p><b>Filter/regulator and lubricator BL64</b> G1/2"</p> <p><i>new*</i></p>  <p>APP-25</p>	<p><b>General purpose filters</b> F64G, F68G No yoke</p> <p><i>new*</i></p>  <p>APP-26</p>	<p><b>Oil vapor removal filters</b> F64B No yoke</p> <p><i>new*</i></p>  <p>APP-28</p>	<p><b>Filter/regulators</b> B64G, B68E/G No yoke</p> <p><i>new*</i></p>  <p>APP-30</p>	<p><b>Regulators</b> R64G, R68G No Yoke</p> <p><i>new*</i></p>  <p>APP-32</p>	<p><b>Lubricators</b> L64M/C, L68M/C No yoke</p> <p><i>new*</i></p>  <p>APP-34</p>
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## MINIATURE SERIES, GENERAL PURPOSE

<p><b>Filter/regulators-lubricators PTH</b> 1/8" and 1/4"</p>  <p>APP-36</p>	<p><b>General purpose filter</b> F07 1/8", 1/4"</p>  <p>APP-37</p>	<p><b>Oil removal filter</b> F39 1/8", 1/4"</p>  <p>APP-38</p>	<p><b>Regulators</b> R07, R46 1/8", 1/4"</p>  <p>APP-39</p>	<p><b>Filter/regulator</b> B07 1/8", 1/4"</p>  <p>APP-40</p>	<p><b>Lubricators</b> L07 1/8", 1/4"</p>  <p>APP-41</p>
<p><b>Pressure relief valve - diaphragm</b> V07 1/8", 1/4"</p>  <p>APP-42</p>					

*\*New to this catalog*



# Fast Find Guide

## MAINLINE SERIES UNITS

**P8A Combination units**  
17 Series  
3/4" to 1-1/2"



**APP-43**

**General purpose filters**  
F17  
3/4" to 1-1/2"



**APP-44**

**Coalescing filter**  
F46  
3/4", 1", 1-1/4"



**APP-45**

**Regulators**  
R17  
3/4" to and 1-1/2"



**APP-46**

**Lubricators**  
L17  
3/4" to 1-1/2"



**APP-47**

**General purpose filters**  
F18  
1-1/2" and 2"



**APP-48**

**Pilot operated regulators**  
R18  
1-1/2" and 2"



**APP-49**

## SPECIAL PURPOSE

**'Micro Trol' special purpose pressure regulators**  
R24  
1/4" to 1-1/4"



**APP-50**

**Precision regulators**  
11-002  
1/4" to 1/2"



**APP-51**

**Pilot operated pressure regulator**  
11-008, 11-042  
1/2" to 1-1/4"



**APP-52**

**Conventional and Feedback pilot regulators**  
R40, R41  
1/4"



**APP-53**

**Pilot operated regulators**  
11-104  
1/4"



**APP-54**

**Precision pressure regulators**  
11-018, R27  
1/4"



**APP-55**

**Precision instrument regulator and filter/regulator**  
R38, B38  
1/4"



**APP-56**


## STAINLESS STEEL – GENERAL PURPOSE AND PRECISION

**Maxseal IFR3 & IFR4 filter/regulator**  
1/4", and 1/2"



**APP-57**

**General purpose filter/regulator**  
R38, B38  
1/4" PTF



**APP-58**

**General purpose filter/regulator**  
B38  
1/2" PTF



**APP-59**

**Filters, pressure regulators, lubricators**  
F22, R22, L22  
1/2" NPTF



**APP-60**

**General purpose filter**  
F05  
1/4" PTF



**APP-62**

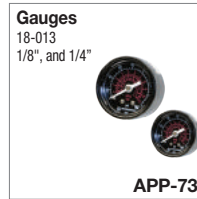
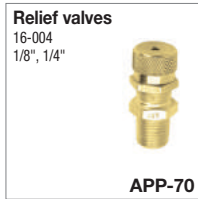
**General purpose regulators & filter-regulator**  
R05, B05  
1/4" PTF



**APP-63**

# Fast Find Guide

## COMPRESSED AIR, WATER, AND BEVERAGE



*\*New to this catalog*

**Boxed sets include: filter/regulator and micro-fog lubricator complete with exhausting shut-off valve, pressure gauge and mounting brackets**

**True modularity with IMI Norgren Quikclamp® connections**

**Quick release bayonet bowl**

**Lubricator flow sensor provides a nearly constant oil/air ratio over a wide range of air flows**

**All around (360°) visibility of the lubricator sight-feed dome simplifies installation and adjustment**

**Regulator balanced valve minimizes effect of variation in the inlet pressure on the outlet pressure**



BL73-301A

**Technical data**

**Fluid:**

Compressed air

**Maximum pressure:**

Transparent bowl: 150 psig (10 bar)

Metal bowl: 250 psig (17 bar)

**Operating temperature\*:**

Transparent bowl:

0° to 125°F (-20° to 50°C)

Metal bowl:

0° to 150°F (-20° to 65°C)

\* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

**Particle removal:**

40 µm filter element

**Materials**

Body: zinc or aluminum

Bonnet: acetal or aluminum

Bowl:

(72) polycarbonate

(73, 74) aluminum

Metal bowl liquid level indicator

lens: transparent nylon
















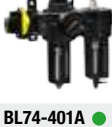




Sight-feed dome: transparent nylon

Element: sintered polypropylene

Elastomers: CR, nitrile

**Models**

**Accessories**

Model No.	Port size PTF	Diaphragm	Outlet pressure range psig	Filter drain	Bowl type	Tamper evident kit	Element	Filter / regulator service kit	Lubricator service kit
 BL72-201A ●	1/4"	Relieving	5 to 150	Auto	Transparent	 4255-51 ●	 5925-02 ●	 4383-500 ●	 4382-500 ●
 BL73-301A ●	3/8"	Relieving	5 to 150	Auto	Metal	 4455-51 ●	 4438-03 ●	 4383-600 ●	 4382-600 ●
 BL74-401A ●	1/2"	Relieving	5 to 150	Auto	Metal	 4355-51 ●	 4338-05 ●	 4383-700 ●	 4382-700 ●
 BL74-601A ●	3/4"	Relieving	5 to 150	Auto	Metal	 4355-51 ●	 4338-05 ●	 4383-700 ●	 4382-700 ●

● In stock

◆ Ships within one week

**Excelon® design allows in-line or modular installation with other Excelon® products**

**Quick release bayonet bowl**

**Highly visible prismatic liquid level indicator lens on metal bowls**

**Technical data**

**Fluid:**

Compressed air

**Operating pressure:**

Transparent bowl: 150 psig (10 bar)

Metal bowl: 250 psig (17 bar)

**F72G** w/metal bowl and automatic drain: 150 psig (10 bar)

**Operating temperature\*:**

Transparent bowl: -30° to 125°F (-34° to 50°C)

Metal bowl:

**(72)** -30° to 150°F (-34° to 66°C)

**(73, 74)** -30° to 175°F (-34° to 80°C)

\* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

**Flow\*\***

**Model SCFM**

F72G-2AN 55

F73G-3AN 63

F74G-4AN 140

\*\* Typical flow with 40 µm element at 90 psig inlet pressure and 5 psig pressure drop.

**Materials**

**F72G**

Body: zinc

Transparent bowl: polycarbonate

Metal bowl: zinc

Metal bowl liquid level indicator lens: transparent nylon

Element: sintered polypropylene

Elastomers: CR and nitrile

**F73G & F74G:**

Body: aluminum

Metal bowl: aluminum

Transparent bowl: Polycarbonate

Transparent bowl guard:

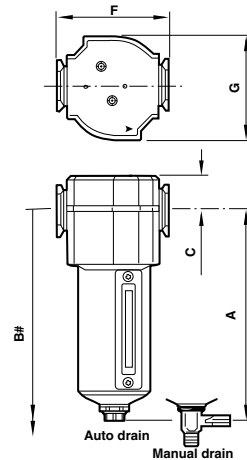
73: Steel

74: Aluminum

Metal bowl liquid level indicator lens: transparent nylon

Element: sintered polypropylene

Elastomers: CR and nitrile



**Dimensions (inches)**

Series	Drain type	A	B#	C	F	G
72	Auto	5.51	7.52	0.75	1.97	1.89
	Manual	5.83	7.83	0.75	1.97	1.89
72 Long	Auto	6.07	8.08	0.75	1.97	1.89
	Manual	6.39	8.39	0.75	1.97	1.89
73	Auto	5.80	8.15	0.98	2.68	2.44
	Manual	6.15	8.50	0.98	2.68	2.44
74	Auto	6.35	9.06	0.98	3.15	2.91
	Manual	6.95	9.69	0.98	3.15	2.91

B# - Minimum distance required to remove bowl

**Models**

**Accessories**

























F72G Autodrain Model No.	F72G Manual Drain Model No.	Port size PTF	Bowl type	Element	Wall mounting bracket	Quickmount pipe adapter	Quikclamp	Quikclamp and bracket	Service kit*	Element
		1/4"	Transparent	40 µm						
		3/8"	Transparent	40 µm						
		1/4"	Metal	40 µm						
		3/8"	Metal	40 µm						
		1/4"	Metal - Long	5 µm						

















\* Kit includes seal and gasket

- In stock
- ◆ Ships within one week

**Models**

**Accessories**

F73G Autodrain Model No.	F73G Manual Drain Model No.	Port size PTF	Bowl type	Element	Wall mounting bracket	Quickmount pipe adapter	Quikclamp	Quikclamp and bracket	Service kit*	Element
		1/4"	Transparent	40 µm						
F73G-2AN-AT3 ●	F73G-2AN-QT3 ●	1/4"	Transparent	40 µm	4424-50 ●	4315-01 ●	4314-51 ●	4314-52 ●	4380-600 ●	4438-03 ●
F73G-4AN-AT3 ●	F73G-4AN-QT3 ●	1/2"	Transparent	40 µm	4424-50 ●	4315-03 ●	4314-51 ●	4314-52 ●	4380-600 ●	4438-03 ●
		1/4"	Metal	40 µm						
F73G-2AN-AD3 ●	F73G-2AN-QD3 ●	1/4"	Metal	40 µm	4424-50 ●	4315-01 ●	4314-51 ●	4314-52 ●	4380-600 ●	4438-03 ●
F73G-2AN-AD1 ●	F73G-2AN-QD1 ●	1/4"	Metal	5 µm	4424-50 ●	4315-01 ●	4314-51 ●	4314-52 ●	4380-600 ●	4438-01 ●
F73G-3AN-AD3 ●	F73G-3AN-QD3 ●	3/8"	Metal	40 µm	4424-50 ●	4315-02 ●	4314-51 ●	4314-52 ●	4380-600 ●	4438-03 ●
F73G-3AN-AD1 ●	F73G-3AN-QD1 ●	3/8"	Metal	5 µm	4424-50 ●	4315-02 ●	4314-51 ●	4314-52 ●	4380-600 ●	4438-01 ●
F73G-4AN-AD3 ●	F73G-4AN-QD3 ●	1/2"	Metal	40 µm	4424-50 ●	4315-03 ●	4314-51 ●	4314-52 ●	4380-600 ●	4438-03 ●
F73G-4AN-AD1 ●	F73G-4AN-QD1 ●	1/2"	Metal	5 µm	4424-50 ●	4315-03 ●	4314-51 ●	4314-52 ●	4380-600 ●	4438-01 ●
		1/4"	Transparent with guard	40 µm						
F73G-2AN-AP3 ●	F73G-2AN-QP3 ●	1/4"	Transparent with guard	40 µm	4424-50 ●	4315-01 ●	4314-51 ●	4314-52 ●	4380-600 ●	4438-03 ●
F73G-3AN-AP3 ●	F73G-3AN-QP3 ●	3/8"	Transparent with guard	40 µm	4424-50 ●	4315-02 ●	4314-51 ●	4314-52 ●	4380-600 ●	4438-03 ●
F73G-4AN-AP3 ●	F73G-4AN-QP3 ●	1/2"	Transparent with guard	40 µm	4424-50 ●	4315-03 ●	4314-51 ●	4314-52 ●	4380-600 ●	4438-03 ●

F74G Autodrain Model No.	F74G Manual Drain Model No.	Port size PTF	Bowl type	Element	Wall mounting bracket	Quickmount pipe adapter	Quikclamp	Quikclamp and bracket	Service kit*	Element
		3/8"	Metal	40 µm						
F74G-3AN-AD3 ●	F74G-3AN-QD3 ●	3/8"	Metal	40 µm	4324-50 ●	4315-02 ●	4314-51 ●	4314-52 ●	4380-700 ●	4338-05 ●
F74G-3AN-AD1 ●	F74G-3AN-QD1 ●	3/8"	Metal	5 µm	4324-50 ●	4315-02 ●	4314-51 ●	4314-52 ●	4380-700 ●	4338-04 ●
F74G-4AN-AD3 ●	F74G-4AN-QD3 ●	1/2"	Metal	40 µm	4324-50 ●	4315-03 ●	4314-51 ●	4314-52 ●	4380-700 ●	4338-05 ●
F74G-4AN-AD1 ●	F74G-4AN-QD1 ●	1/2"	Metal	5 µm	4324-50 ●	4315-03 ●	4314-51 ●	4314-52 ●	4380-700 ●	4338-04 ●
F74G-6AN-AD3 ●	F74G-6AN-QD3 ●	3/4"	Metal	40 µm	4324-50 ●	4315-04 ●	4314-51 ●	4314-52 ●	4380-700 ●	4338-05 ●
F74G-6AN-AD1 ●	F74G-6AN-QD1 ●	3/4"	Metal	5 µm	4324-50 ●	4315-04 ●	4314-51 ●	4314-52 ●	4380-700 ●	4338-04 ●
		3/8"	Transparent with guard	40 µm						
F74G-3AN-AP3 ●	F74G-3AN-QP3 ●	3/8"	Transparent with guard	40 µm	4324-50 ●	4315-02 ●	4314-51 ●	4314-52 ●	4380-700 ●	4338-05 ●
F74G-4AN-AP1 ●	F74G-4AN-QP1 ●	1/2"	Transparent with guard	5 µm	4324-50 ●	4315-02 ●	4314-51 ●	4314-52 ●	4380-700 ●	4338-04 ●
F74G-4AN-AP3 ●	F74G-4AN-QP3 ●	1/2"	Transparent with guard	40 µm	4324-50 ●	4315-03 ●	4314-51 ●	4314-52 ●	4380-700 ●	4338-05 ●
F74G-6AN-AP3 ●	F74G-6AN-QP3 ●	3/4"	Transparent with guard	40 µm	4324-50 ●	4315-04 ●	4314-51 ●	4314-52 ●	4380-700 ●	4338-05 ●

\* Kit includes: seal and gasket

- In stock
- ◆ Ships within one week

**Excelon® design allows in-line or modular installation**

**High efficiency oil and particle removal**

**Quick release bayonet bowl**

**Standard visual service life indicator turns from green to red when the filter element needs to be replaced**

### Technical data

#### Fluid:

Compressed air

#### Maximum pressure:

Transparent bowl:

150 psig (10 bar)

F72C metal bowl w/auto drain:

150 psig (10 bar)

Metal bowl:

250 psig (17 bar)

#### Operating temperature\*:

Transparent bowl:

-30° to 125°F (-34° to 50°C)

Metal bowl:

-30° to 150°F (-34° to 65°C)

\* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

#### Oil removal:

0.01 µm at 70°F (21°C)

Remaining oil content: 0.01 mg/m<sup>3</sup> at 70°F (21°C)

#### Flow\*\*

**Model SCFM**

F72C 9.5

F73C 21.2

F74C 33.9

F74H 59.3

\*\* Typical flow with 90 psig inlet pressure to maintain stated oil removal performance.

#### Materials

##### F72C

Body: zinc

Bowl transparent: polycarbonate

Bowl Metal: zinc

Metal bowl liquid level indicator

lens: Transparent nylon

Element: synthetic fiber and

polyurethane foam

Elastomers: CR and nitrile

Service life indicator materials-

Body: transparent nylon.

Internal parts: acetal.

Spring: stainless steel.

Elastomers: nitrile

##### F73C and F74C

Body: aluminum

Bowl: aluminum

Bowl liquid level indicator lens:

Transparent nylon

Element: synthetic fiber and

polyurethane foam

Elastomers: CR and nitrile

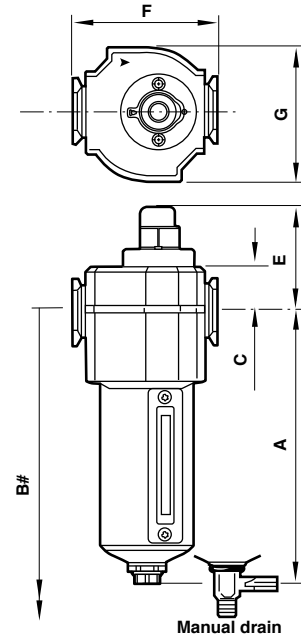
Mechanical service indicator

materials Body: transparent nylon

Internal parts: Acetal

Spring: Stainless steel

Elastomers: Nitrile



# Minimum clearance required to remove bowl

### Dimensions (inches)

Series	Drain type	A	B	C	E	F	G
F72C	Auto	5.51	7.52	0.75	2.09	1.97	1.89
	Manual	5.83	7.83	0.75	2.09	1.97	1.89
F73C	Auto	5.80	8.15	0.98	2.36	2.68	2.44
	Manual	6.15	8.50	0.98	2.36	2.68	2.44
F74C	Auto	6.35	9.17	0.98	2.36	3.15	2.91
	Manual	6.95	9.80	0.98	2.36	3.15	2.91
F74H	Auto	8.44	11.18	0.98	2.36	3.15	2.91
	Manual	9.04	11.81	0.98	2.36	3.15	2.91

● In stock

◆ Ships within one week

Models

Accessories

F72C Autodrain Model No.	F72C Manual Drain Model No.	Port size PTF	Bowl type	Wall mounting bracket	Quick-mount pipe adapter	Quikclamp	Quikclamp and bracket	Visual service indicator	Electrical service life indicator	Service kit*	Element
		1/4"	Transparent								
F72C-2AD-ALO ●	F72C-2AD-QTO ●	1/4"	Transparent	4224-50 ●	4215-02 ●	4214-51 ●	4214-52 ●	5797-50 ●	4020-51R ●	4380-500 ●	5925-09 ●
F72C-3AD-ALO ●	F72C-3AD-QTO ●	3/8"	Transparent	4224-50 ●	4215-03 ●	4214-51 ●	4214-52 ●	5797-50 ●	4020-51R ●	4380-500 ●	5925-09 ●
		1/4"	Metal								
F72C-2AD-AEO ●	F72C-2AD-QDO ●	1/4"	Metal	4224-50 ●	4215-02 ●	4214-51 ●	4214-52 ●	5797-50 ●	4020-51R ●	4380-500 ●	5925-09 ●
F72C-3AD-AEO ●	F72C-3AD-QDO ●	3/8"	Metal	4224-50 ●	4215-03 ●	4214-51 ●	4214-52 ●	5797-50 ●	4020-51R ●	4380-500 ●	5925-09 ●
		1/4"	Metal								
F73C-2AD-ADO ●	F73C-2AD-QDO ●	1/4"	Metal	4424-50 ●	4315-01 ●	4314-51 ●	4314-52 ●	5797-50 ●	4020-51R ●	4380-602 ●	4444-01 ●
F73C-3AD-ADO ●	F73C-3AD-QDO ●	3/8"	Metal	4424-50 ●	4315-02 ●	4314-51 ●	4314-52 ●	5797-50 ●	4020-51R ●	4380-602 ●	4444-01 ●
F73C-4AD-ADO ●	F73C-4AD-QDO ●	1/2"	Metal	4424-50 ●	4315-03 ●	4314-51 ●	4314-52 ●	5797-50 ●	4020-51R ●	4380-602 ●	4444-01 ●
		3/8"	Metal								
F74C-3AD-ADO ●	F74C-3AD-QDO ●	3/8"	Metal	4324-50 ●	4315-02 ●	4314-51 ●	4314-52 ●	5797-50 ●	4020-51R ●	4380-730 ●	4344-01 ●
F74C-4AD-ADO ●	F74C-4AD-QDO ●	1/2"	Metal	4324-50 ●	4315-03 ●	4314-51 ●	4314-52 ●	5797-50 ●	4020-51R ●	4380-730 ●	4344-01 ●
		1/2"	Metal								
F74H-4AD-ADO ●	F74H-4AD-QDO ●	1/2"	Metal	4324-50 ●	4315-03 ●	4314-51 ●	4314-52 ●	5797-50 ●	4020-51R ●	4380-730 ●	4344-02 ●
F74H-6AD-ADO ●	F74H-6AD-QDO ●	3/4"	Metal	4324-50 ●	4315-04 ●	4314-51 ●	4314-52 ●	5797-50 ●	4020-51R ●	4380-730 ●	4344-02 ●

\* Kit includes: seal and gasket

- In stock
- ◆ Ships within one week

**Excelon design allows in-line or modular installation with other Excelon products**

**Adsorbing type activated carbon element removes oil vapors and most hydrocarbon odors**

**Quick release bayonet bowl**

**High intensity blue color change indication**

**Technical data**

**Fluid:**

Compressed air  
Maximum pressure:  
Transparent bowl: 150 psig (10 bar)  
Metal bowl: 250 psig (17 bar)

**Operating temperature\*:**

Transparent bowl:  
0° to 125°F (-20° to 50°C)  
Metal bowl:  
0° to 150°F (-20° to 65°C)  
\* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C)

**Flow\*\***

**Model SCFM**

F72V 3.4  
F74V 21.0

\*\* Typical flow with 90 psig inlet pressure to maintain stated oil removal performance.

**Maximum remaining oil content in outlet air:**

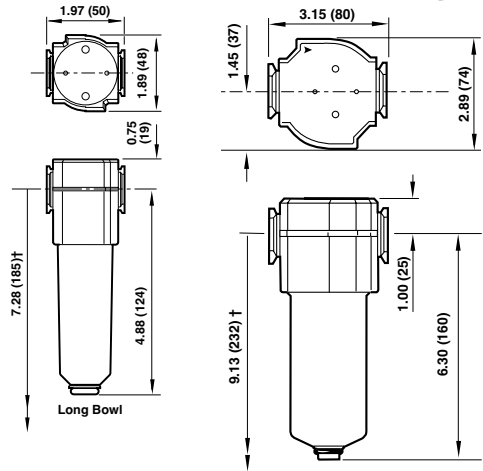
0.003 ppm at 70°F (20°C)

**Materials**

**F72V**  
Body and metal bowl: zinc  
Transparent bowl: polycarbonate  
Element: Activated carbon  
Elastomers: CR and nitrile

**F74V**

Body: aluminum  
Metal bowl: aluminum  
Element: Activated carbon  
Elastomers: CR and nitrile



\* Minimum clearance required to remove bowl

**Dimensions (inches)**

Series	A	B	C	D	E	F	G	H
72	2.36	1.65	1.54	0.73	0.16	1.50	0.24	2.01
74	3.11	2.72	1.97	0.79	0.20	2.01	0.24	2.40

**Models**

**Accessories**

F72V Model No.	Port size PTF	Bowl type	Wall mounting bracket	Quickmount pipe adapter	Quikclamp	Quikclamp and bracket	Service kit*	Element
	1/4"	Transparent						
F72V-2AN-ELC	1/4"	Transparent	4224-50	4215-02	4214-51	4214-52	4380-500	4241-01
F72V-3AN-ELC	3/8"	Transparent	4224-50	4215-03	4214-51	4214-52	4380-500	4241-01
F72V Model No.	Port size PTF	Bowl type	Wall mounting bracket	Quickmount pipe adapter	Quikclamp	Quikclamp and bracket	Service kit*	Element
	1/4"	Metal						
F72V-2AN-ECC	1/4"	Metal	4224-50	4215-02	4214-51	4214-52	4380-500	4241-01
F72V-3AN-ECC	3/8"	Metal	4224-50	4215-03	4214-51	4214-52	4380-500	4241-01
F74V Model No.	Port size PTF	Bowl type	Wall mounting bracket	Quickmount pipe adapter	Quikclamp	Quikclamp and bracket	Element	
	3/8"	Metal						
F74V-3AN-EMA	3/8"	Metal	4324-50	4315-02	4314-51	4314-52	4341-01	
F74V-4AN-EMA	1/2"	Metal	4324-50	4315-03	4314-51	4314-52	4341-01	
F74V-6AN-EMA	3/4"	Metal	4324-50	4315-04	4314-51	4314-52	4341-01	

\* Kit includes seal and gasket



Excelon® design allows in-line or modular installation  
Manifold typically up to six regulators without booster signal



**Technical data**

**Fluid:**

Compressed air

**Maximum pressure:**

300 psig (20 bar)

**Operating temperature\*:**

**R72M:** -30° to 150°F (-34° to 65°C)

**R74M:** -30° to 175°F (-34° to 80°C)

\* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

**Ports:**

Inlet ports (2):

**R72M:** 1/4" or 3/8" PTF

**R74M:** 1/2" PTF

**Outlet port (1):**

**R72M:** 1/4" PTF

**R74M:** 1/2" PTF

**Gauge port (1):**

1/8" PTF

**Flow\*\***

**Model**

R72M

R74M

**SCFM**

83

220

\*\* Typical flow with 150 psig inlet pressure, 90 psig set pressure and a 15 psig droop from set.

NOTE: Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

**Materials**

**R72**

Body: Zinc

Bonnet: Acetal

**R74**

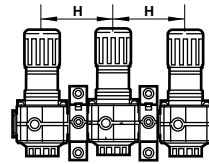
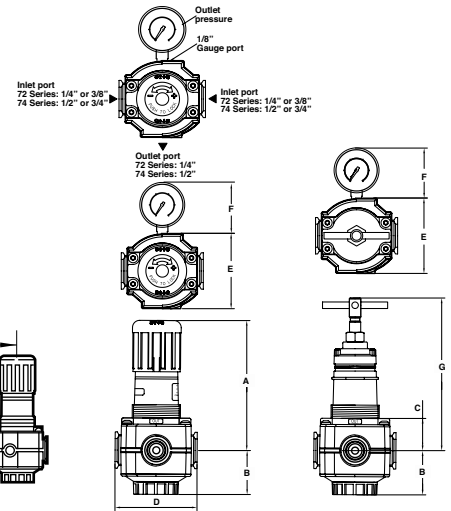
Body and bonnet: Aluminum

R72 and 74

Elastomers: Nitrile

Bottom plug: Acetal

Valve: Polypropylene and Geolast





















R74 shown

**Dimensions (inches)**

Series	A	B	C	D	E	F	G	H	Panel Ø	Panel depth
72	2.88	1.31	1.01	1.98	1.91	1.90	4.03/4.25**	2.24	1.57	0 to .16
74	4.98	1.69	1.24	3.1	2.89	2.72	5.86	3.68	2.05	.07 to .25

**Models**

**Accessories**

R72M Series Model No.	Inlet Port (2) - PTF	Outlet Port (1) - PTF	Wall mounting bracket	Quickmount pipe adapter	Quikclamp	Quikclamp and bracket	Neck mounting bracket	Tamper evident cover & Wire	Gauge psig	Service kit†
										
<b>R72M-2AK-RMN</b>	1/4"	1/4"	4224-50	4215-02	4214-51	4214-52	74316-50	4255-51	18-013-273	4381-500
<b>R72M-2AK-RMG</b>	1/4"	1/4"	4224-50	4215-02	4214-51	4214-52	74316-50	4255-51	Gauge included	4381-500
<b>R72M-3AK-RMN</b>	3/8"	1/4"	4224-50	4215-03	4214-51	4214-52	74316-50	4255-51	18-013-273	4381-500
<b>R72M-3AK-RMG</b>	3/8"	1/4"	4224-50	4215-03	4214-51	4214-52	74316-50	4255-51	Gauge included	4381-500
										
<b>R74M-4AK-RMN</b>	1/2"	1/2"	4324-50	4315-03	4314-51	4314-52	4368-51	4355-51	18-013-273	4381-700
<b>R74M-4AK-RMG</b>	1/2"	1/2"	4324-50	4315-03	4314-51	4314-52	4368-51	4355-51	Gauge included	4381-700
<b>R74M-6AK-RMN</b>	3/4"	1/2"	4324-50	4315-04	4314-51	4314-52	4368-51	4355-51	18-013-273	4381-700

† Kit includes: diaphragm, valve, valve spring, and o-rings

- In stock
- ◆ Ships within one week

**Balanced valve design for optimum pressure control**

**Standard relieving models allow reduction of downstream pressure when the system is dead-ended**

**Push to lock adjusting knob with tamper evident accessory**

**Technical data**

**Fluid:**

Compressed air

**Maximum pressure:**

300 psig (20 bar)

**Operating temperature\*:**

R72: -30° to 150°F

(-34° to 65°C)

R73 and R74: -30° to 175°F

(-34° to 80°C)

\* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

**Materials**

Elastomers: nitrile

Bottom plug: acetal

R72G

Body: zinc

Bonnet: acetal

Valve: Polypropylene and Geolast®

R73G, R74G

Body: aluminum

Bonnet: aluminum or zinc

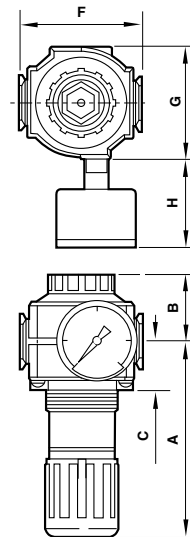
Valve: Polypropylene and Geolast®

**Flow\*\***

Model	SCFM	Model	SCFM
R72G	70	R74G 3AK	208
R73G 2AK	91	R74G 4AK	220
R73G 3AK	144	R74G 6AK	220
R73G 4AK	144		

\*\* Typical flow with 150 psig inlet pressure, 90 psig set pressure and a 15 psig drop from set.

NOTE: Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.



**Dimensions (inches)**

Series	A	B	C	F	G	H	Panel Ø	Panel depth
72	2.87	1.30	1.02	1.97	1.89	1.38	1.57	0 to .16
73	3.78	1.54	1.22	2.68	2.44	2.20	1.89	.07 to .25
74	5.00	1.69	1.22	3.15	2.91	2.20	2.05	.07 to .25

**Models**

**Accessories**

R72G Series Model No.	Port size PTF	Spring rate psig	Wall mounting bracket	Quick-mount pipe adapter	Quikclamp	Quikclamp and bracket	Neck mounting bracket	Tamper evident cover & wire	Gauge psig	Service kit*
R72G-2AK-RFN	1/4"	5 to 60	4224-50	4215-02	4214-51	4214-52	74316-50	4255-51	18-013-211	4381-500
R72G-2AK-RFG	1/4"	5 to 60	4224-50	4215-02	4214-51	4214-52	74316-50	4255-51	Gauge included	4381-500
R72G-2AK-RMN	1/4"	5 to 150	4224-50	4215-02	4214-51	4214-52	74316-50	4255-51	18-013-212	4381-500
R72G-2AK-RMG	1/4"	5 to 150	4224-50	4215-02	4214-51	4214-52	74316-50	4255-51	Gauge included	4381-500
R72G-3AK-RFN	3/8"	5 to 60	4224-50	4215-03	4214-51	4214-52	74316-50	4255-51	18-013-211	4381-500
R72G-3AK-RFG	3/8"	5 to 60	4224-50	4215-03	4214-51	4214-52	74316-50	4255-51	Gauge included	4381-500
R72G-3AK-RMN	3/8"	5 to 150	4224-50	4215-03	4214-51	4214-52	74316-50	4255-51	18-013-212	4381-500
R72G-3AK-RMG	3/8"	5 to 150	4224-50	4215-03	4214-51	4214-52	74316-50	4255-51	Gauge included	4381-500










\* Kit includes: diaphragm, valve, valve spring, and o-rings










† Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a 15 psig (1 bar) drop from set.

- In stock
- ◆ Ships within one week

Models

Accessories

R73G Series Model No.	Port size PTF	Spring rate psig	Wall mounting bracket	Quick-mount pipe adapter	Quikclamp	Quikclamp and bracket	Neck mounting bracket	Tamper evident cover & wire	Gauge psig	Service kit*
										
R73G-2AK-RFN	1/4"	5 to 60	4424-50	4315-01	4314-51	4314-52	4461-50	4455-51	18-013-208	4381-600
R73G-2AK-RFG	1/4"	5 to 60	4424-50	4315-01	4314-51	4314-52	4461-50	4455-51	Gauge included	4381-600
R73G-2AK-RMN	1/4"	5 to 150	4424-50	4315-01	4314-51	4314-52	4461-50	4455-51	18-013-209	4381-600
R73G-2AK-RMG	1/4"	5 to 150	4424-50	4315-01	4314-51	4314-52	4461-50	4455-51	Gauge included	4381-600
R73G-2AK-RSN	1/4"	10 to 250	4424-50	4315-01	4314-51	4314-52	4461-50	4455-51	18-013-210	4381-600
R73G-2AK-RSG	1/4"	10 to 250	4424-50	4315-01	4314-51	4314-52	4461-50	4455-51	Gauge included	4381-600
R73G-3AK-RFN	3/8"	5 to 60	4424-50	4315-02	4314-51	4314-52	4461-50	4455-51	18-013-208	4381-600
R73G-3AK-RFG	3/8"	5 to 60	4424-50	4315-02	4314-51	4314-52	4461-50	4455-51	Gauge included	4381-600
R73G-3AK-RMN	3/8"	5 to 150	4424-50	4315-02	4314-51	4314-52	4461-50	4455-51	18-013-209	4381-600
R73G-3AK-RMG	3/8"	5 to 150	4424-50	4315-02	4314-51	4314-52	4461-50	4455-51	Gauge included	4381-600
R73G-3AK-RSN	3/8"	10 to 250	4424-50	4315-02	4314-51	4314-52	4461-50	4455-51	18-013-210	4381-600
R73G-3AK-RSG	3/8"	10 to 250	4424-50	4315-02	4314-51	4314-52	4461-50	4455-51	Gauge included	4381-600
R73G-4AK-RFN	1/2"	5 to 60	4424-50	4315-03	4314-51	4314-52	4461-50	4455-51	18-013-208	4381-600
R73G-4AK-RFG	1/2"	5 to 60	4424-50	4315-03	4314-51	4314-52	4461-50	4455-51	Gauge included	4381-600
R73G-4AK-RMN	1/2"	5 to 150	4424-50	4315-03	4314-51	4314-52	4461-50	4455-51	18-013-209	4381-600
R73G-4AK-RMG	1/2"	5 to 150	4424-50	4315-03	4314-51	4314-52	4461-50	4455-51	Gauge included	4381-600
R73G-4AK-RSN	1/2"	10 to 250	4424-50	4315-03	4314-51	4314-52	4461-50	4455-51	18-013-210	4381-600
R73G-4AK-RSG	1/2"	10 to 250	4424-50	4315-03	4314-51	4314-52	4461-50	4455-51	Gauge included	4381-600

R74G Series Model No.	Port size PTF	Spring rate psig	Wall mounting bracket	Quick-mount pipe adapter	Quikclamp	Quikclamp and bracket	Neck mounting bracket	Tamper evident cover & wire	Gauge psig	Service kit*
										
R74G-3AK-RMN	3/8"	5 to 150	4324-50	4315-02	4314-51	4314-52	4368-51	4355-51	18-013-209	4381-700
R74G-3AK-RMG	3/8"	5 to 150	4324-50	4315-02	4314-51	4314-52	4368-51	4355-51	Gauge included	4381-700
R74G-4AK-RFN	1/2"	5 to 60	4324-50	4315-03	4314-51	4314-52	4368-51	4355-51	18-013-208	4381-700
R74G-4AK-RFG	1/2"	5 to 60	4324-50	4315-03	4314-51	4314-52	4368-51	4355-51	Gauge included	4381-700
R74G-4AK-RMN	1/2"	5 to 150	4324-50	4315-03	4314-51	4314-52	4368-51	4355-51	18-013-209	4381-700
R74G-4AK-RMG	1/2"	5 to 150	4324-50	4315-03	4314-51	4314-52	4368-51	4355-51	Gauge included	4381-700
R74G-4AT-RMN**	1/2"	5 to 150	4324-50	4315-03	4314-51	4314-52	4368-51	4355-51	18-013-209	4381-700
R74G-4AT-RMG**	1/2"	5 to 150	4324-50	4315-03	4314-51	4314-52	4368-51	4355-51	Gauge included	4381-700
R74G-4AT-RSN**	1/2"	10 to 250	4324-50	4315-03	4314-51	4314-52	4368-51	4355-51	18-013-210	4381-700
R74G-4AT-RSG**	1/2"	10 to 250	4324-50	4315-03	4314-51	4314-52	4368-51	4355-51	Gauge included	4381-700
R74G-6AK-RFN	3/4"	5 to 60	4324-50	4315-04	4314-51	4314-52	4368-51	4355-51	18-013-208	4381-700
R74G-6AK-RFG	3/4"	5 to 60	4324-50	4315-04	4314-51	4314-52	4368-51	4355-51	Gauge included	4381-700
R74G-6AK-RMN	3/4"	5 to 150	4324-50	4315-04	4314-51	4314-52	4368-51	4355-51	18-013-209	4381-700
R74G-6AK-RMG	3/4"	5 to 150	4324-50	4315-04	4314-51	4314-52	4368-51	4355-51	Gauge included	4381-700
R74G-6AT-RMG**	3/4"	5 to 150	4324-50	4315-04	4314-51	4314-52	4368-51	4355-51	Gauge included	4381-700
R74G-6AT-RSN**	3/4"	10 to 250	4324-50	4315-04	4314-51	4314-52	4368-51	4355-51	18-013-210	4381-700
R74G-6AT-RSG**	3/4"	10 to 250	4324-50	4315-04	4314-51	4314-52	4368-51	4355-51	Gauge included	4381-700

\* Kit includes: diaphragm, valve, valve spring, and o-rings  
\*\* T-handle adjustment

- In stock
- ◆ Ships within one week

**High efficiency water and particle removal**

**Quick release bayonet bowl**

**Push to lock adjusting knob with tamper evident accessory**

**Technical data**

**Fluid:**  
 Compressed air  
 Maximum pressure:  
 Transparent bowl: 150 psig (10 bar)  
 Metal bowl: 250 psig (17 bar)  
**B72G** metal bowl w/ auto drain:  
 150 psig (10 bar)  
**Operating temperature\*:**  
 Transparent bowl:  
**(72)** -30° to 125°F (-34° to 50°C)  
 Metal bowl:  
**(72)** -30° to 150°F (-34° to 66°C)  
**(73, 74)** -30° to 175°F (-34° to 80°C)  
 \* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).  
 Particle removal: 5 or 40 µm

NOTE: Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

**Materials**  
**B72G**  
 Body: zinc  
 Bonnet: acetal  
 Valve: Polypropylene and Geolast  
 Transparent bowl: polycarbonate  
 Metal bowl: zinc  
 Liquid level indicator lens (metal bowl): transparent nylon  
 Element: sintered polypropylene  
 Elastomers: CR & nitrile

**B73G & B74G:**  
 Body: aluminum  
 Bonnet: (73) Zinc, (74) aluminum  
 Transparent bowl (74): polycarbonate  
 Transparent bowl guard (74): aluminum  
 Metal bowl: aluminum  
 Liquid level indicator lens (metal bowl): transparent nylon  
 Element: sintered polypropylene  
 Elastomers: CR & nitrile  
 Valve: Polypropylene and Geolast

**Flow\*\***

Model	SCFM
B72G	80
B73G 2AK	78
B73G 3AK	123
B73G 4AK	123
B74G 3AK	163
B74G 4AK	212
B74G 6AK	212

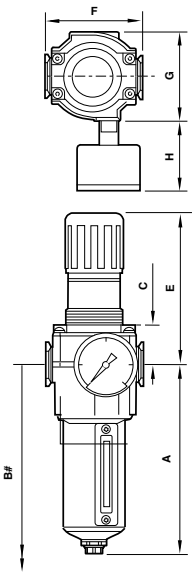
\*\* Typical flow with 150 psig inlet pressure, 90 psig set pressure a15 psig droop from set and 40 µm element.

**Models**

B72G Autodrain Model No.	B72G Manual Drain Model No.	Port size PTF	Bowl type	Element	Wall mounting bracket	Neck mounting bracket	Tamper evident cover wire	Gauge 0 to 160 psig	Replacement element	Service kit
		1/4"	Transparent	40µ						
		3/8"	Transparent	40µ						
		1/4"	Metal	40µ						
		1/4"	Metal	5µ						
		1/4"	Metal	40µ						
		3/8"	Metal	40µ						
		3/8"	Metal	5µ						
		3/8"	Metal	40µ						

\*Kit includes: Diaphragm assembly, valve assembly, valve spring, louvre O-ring, bowl O-ring, drain seal

- In stock
- ◆ Ships within one week



# Minimum clearance required to remove bowl

**Dimensions (inches)**

























Series	Drain	A	B	C	E	F	G	H	Panel Ø	Panel depth
B72	Auto	5.51	7.52	1.02	2.87	1.97	1.89	1.38	1.57	0 to .16
	Manual	5.83	7.83	1.02	2.87	1.97	1.89	1.38	1.57	0 to .16
B73	Auto	5.80	8.15	1.22	3.78	2.68	2.44	2.20	1.89	.07 to .25
	Manual	6.15	8.50	1.22	3.78	2.68	2.44	2.20	1.89	.07 to .25
B74	Auto	6.35	9.06	1.22	5.00	3.15	2.91	2.20	2.05	.07 to .25
	Manual	6.95	9.69	1.22	5.00	3.15	2.91	2.20	2.05	.07 to .25

**Accessories**

Wall mounting bracket	Neck mounting bracket	Tamper evident cover wire	Gauge 0 to 160 psig	Replacement element	Service kit

**Models**

**Accessories**

B73G Autodrain Model No.	B73G Manual Drain Model No.	Port size PTF	Bowl type	Element	Wall moun- ting bracket	Neck mounting bracket	Tamper evident cover wire	Gauge 0 to 160 psig	Replacement element	Service kit*
										
B73G-2AK-AD1-RMN ●	B73G-2AK-QD1-RMN ●	1/4"	Metal	5µ	4424-50 ●	4461-50 ●	4455-51 ●	18-013-209 ●	4438-01 ●	4383-600 ●
B73G-2AK-AD3-RMN ●	B73G-2AK-QD3-RMN ●	1/4"	Metal	40µ	4424-50 ●	4461-50 ●	4455-51 ●	18-013-209 ●	4438-03 ●	4383-600 ●
B73G-2AK-AD1-RMG ●	B73G-2AK-QD1-RMG ●	1/4"	Metal	5µ	4424-50 ●	4461-50 ●	4455-51 ●	Gauge included	4438-01 ●	4383-600 ●
B73G-2AK-AD3-RMG ●	B73G-2AK-QD3-RMG ●	1/4"	Metal	40µ	4424-50 ●	4461-50 ●	4455-51 ●	Gauge included	4438-03 ●	4383-600 ●
B73G-3AK-AD1-RMN ●	B73G-3AK-QD1-RMN ●	3/8"	Metal	5µ	4424-50 ●	4461-50 ●	4455-51 ●	18-013-209 ●	4438-01 ●	4383-600 ●
B73G-3AK-AD3-RMN ●	B73G-3AK-QD3-RMN ●	3/8"	Metal	40µ	4424-50 ●	4461-50 ●	4455-51 ●	18-013-209 ●	4438-03 ●	4383-600 ●
B73G-3AK-AD1-RMG ●	B73G-3AK-QD1-RMG ●	3/8"	Metal	5µ	4424-50 ●	4461-50 ●	4455-51 ●	Gauge included	4438-01 ●	4383-600 ●
B73G-3AK-AD3-RMG ●	B73G-3AK-QD3-RMG ●	3/8"	Metal	40µ	4424-50 ●	4461-50 ●	4455-51 ●	Gauge included	4438-03 ●	4383-600 ●
B73G-4AK-AD1-RMN ●	B73G-4AK-QD1-RMN ●	1/2"	Metal	5µ	4424-50 ●	4461-50 ●	4455-51 ●	18-013-209 ●	4438-01 ●	4383-600 ●
B73G-4AK-AD3-RMN ●	B73G-4AK-QD3-RMN ●	1/2"	Metal	40µ	4424-50 ●	4461-50 ●	4455-51 ●	18-013-209 ●	4438-03 ●	4383-600 ●
B73G-4AK-AD1-RMG ●	B73G-4AK-QD1-RMG ●	1/2"	Metal	5µ	4424-50 ●	4461-50 ●	4455-51 ●	Gauge included	4438-01 ●	4383-600 ●
B73G-4AK-AD3-RMG ●	B73G-4AK-QD3-RMG ●	1/2"	Metal	40µ	4424-50 ●	4461-50 ●	4455-51 ●	Gauge included	4438-03 ●	4383-600 ●
										
B74G-3AK-AD3-RMN ●	B74G-3AK-QD3-RMN ●	3/8"	Metal	40µ	4324-50 ●	4368-51 ●	4355-51 ●	18-013-209 ●	4338-05 ●	4383-700 ●
B74G-3AK-AD1-RMG ●	B74G-3AK-QD1-RMG ●	3/8"	Metal	5µ	4324-50 ●	4368-51 ●	4355-51 ●	Gauge included	4338-04 ●	4383-700 ●
B74G-3AK-AD3-RMG ●	B74G-3AK-QD3-RMG ●	3/8"	Metal	40µ	4324-50 ●	4368-51 ●	4355-51 ●	Gauge included	4338-05 ●	4383-700 ●
B74G-4AK-AD3-RMN ●	B74G-4AK-QD3-RMN ●	1/2"	Metal	40µ	4324-50 ●	4368-51 ●	4355-51 ●	18-013-209 ●	4338-05 ●	4383-700 ●
B74G-4AK-AD1-RMN ●	B74G-4AK-QD1-RMN ●	1/2"	Metal	5µ	4324-50 ●	4368-51 ●	4355-51 ●	18-013-209 ●	4338-04 ●	4383-700 ●
B74G-4AK-AD1-RMG ●	B74G-4AK-QD1-RMG ●	1/2"	Metal	5µ	4324-50 ●	4368-51 ●	4355-51 ●	Gauge included	4338-04 ●	4383-700 ●
B74G-4AK-AD3-RMG ●	B74G-4AK-QD3-RMG ●	1/2"	Metal	40µ	4324-50 ●	4368-51 ●	4355-51 ●	Gauge included	4338-05 ●	4383-700 ●
B74G-6AK-AD3-RMN ●	B74G-6AK-QD3-RMN ●	3/4"	Metal	40µ	4324-50 ●	4368-51 ●	4355-51 ●	18-013-209 ●	4338-05 ●	4383-700 ●
B74G-6AK-AD1-RMN ●	B74G-6AK-QD1-RMN ●	3/4"	Metal	5µ	4324-50 ●	4368-51 ●	4355-51 ●	18-013-209 ●	4338-04 ●	4383-700 ●
B74G-6AK-AD1-RMG ●	B74G-6AK-QD1-RMG ●	3/4"	Metal	5µ	4324-50 ●	4368-51 ●	4355-51 ●	Gauge included	4338-04 ●	4383-700 ●
B74G-6AK-AD3-RMG ●	B74G-6AK-QD3-RMG ●	3/4"	Metal	40µ	4324-50 ●	4368-51 ●	4355-51 ●	Gauge included	4338-05 ●	4383-700 ●
										
B74G-4AK-AP3-RMN ●	B74G-4AK-QP3-RMN ●	1/2"	Transparent with guard	40µ	4324-50 ●	4368-51 ●	4355-51 ●	18-013-209 ●	4338-05 ●	4383-700 ●
B74G-4AK-AP3-RMG ●	B74G-4AK-QP3-RMG ●	1/2"	Transparent with guard	40µ	4324-50 ●	4368-51 ●	4355-51 ●	Gauge included	4338-05 ●	4383-700 ●
B74G-6AK-AP3-RMN ●	B74G-6AK-QP3-RMN ●	3/4"	Transparent with guard	40µ	4324-50 ●	4368-51 ●	4355-51 ●	18-013-209 ●	4338-05 ●	4383-700 ●
B74G-6AK-AP3-RMG ●	B74G-6AK-QP3-RMG ●	3/4"	Transparent with guard	40µ	4324-50 ●	4368-51 ●	4355-51 ●	Gauge included	4338-05 ●	4383-700 ●

\*Kit includes: Diaphragm assembly, valve assembly, valve spring, louvre O-ring, bowl O-ring, drain seal

- In stock
- ◆ Ships within one week

**In-line or modular installation**

**Flow sensor provides a nearly constant oil/air ratio over a wide range of flows**

**All round (360°) visibility of sight-feed dome for ease of drip rate setting**

**Micro-fog lubricators for best lubrication in general purpose pneumatic applications**

**Technical data**

**Fluid:**

Compressed air  
Maximum pressure:  
Transparent bowl: 150 psig  
Metal bowl: 250 psig  
Operating temperature\*:  
(72) -30° to 150°F  
(73, 74) -30 ° to 175°F  
\*Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

**Flow\*\***

Model	SCFM	Model	SCFM
L72	51	L74C 3	118
L73	60	L74C 4	192
L74M 3	114	L74C 6	186
L74M 4	154		

\*\* Typical flow with 90 psig inlet pressure and drop of 7 psig.

**Materials:**

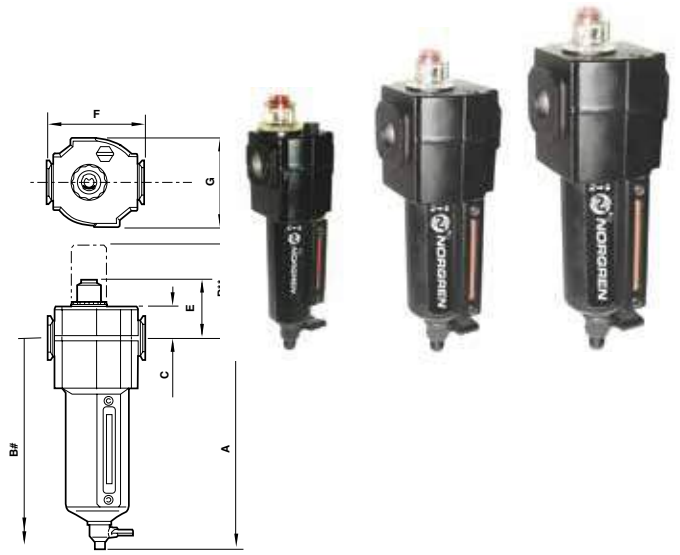
Transparent bowl: polycarbonate  
Liquid level indicator lens (metal bowl): transparent nylon  
Sight-feed dome: nylon

**L72**

Body: zinc  
Elastomers: CR, nitrile & Geolast  
Metal bowl: zinc

**L73, L74**

Body: aluminum  
Metal bowl: aluminum  
Elastomers: CR & nitrile



















# Minimum clearance required to remove bowl









**Dimensions (inches)**

Series	A	B	C	D	E	F	G
72	5.83	9.13	0.75	2.52	1.61	1.97	1.89
73	6.15	10.04	0.98	2.76	1.85	2.68	2.44
74	6.95	10.87	0.98	2.68	1.85	3.15	2.91

**Models**

L72 Series Model No.	Port size PTF	Lubrication type	Bowl type	Wall mounting bracket	Quick-mount pipe adapter	Quikclamp	Quikclamp and bracket	Quick fill nipple	Sight feed dome*	Service kit**
										
L72M-2AP-QTN	1/4"	Micro-Fog	Transparent	4224-50	4215-02	4214-51	4214-52	N/A	4055-50	4382-500
L72C-2AP-QTN	1/4"	Oil Fog	Transparent	4224-50	4215-02	4214-51	4214-52	N/A	4055-51	4382-500
L72M-3AP-QTN	3/8"	Micro-Fog	Transparent	4224-50	4215-03	4214-51	4214-52	N/A	4055-50	4382-500
L72C-3AP-QTN	3/8"	Oil Fog	Transparent	4224-50	4215-03	4214-51	4214-52	N/A	4055-51	4382-500

L72 Series Model No.	Port size PTF	Lubrication type	Bowl type	Wall mounting bracket	Quick-mount pipe adapter	Quikclamp	Quikclamp and bracket	Quick fill nipple	Sight feed dome*	Service kit**
										
L72M-2AP-QDN	1/4"	Micro-Fog	Metal	4224-50	4215-02	4214-51	4214-52	N/A	4055-50	4382-500
L72M-2AP-QEN	1/4"	Micro-Fog	Metal - Long	4224-50	4215-02	4214-51	4214-52	N/A	4055-51	4382-500
L72C-2AP-QDN	1/4"	Oil Fog	Metal	4224-50	4215-02	4214-51	4214-52	N/A	4055-51	4382-500
L72M-3AP-QDN	3/8"	Micro-Fog	Metal	4224-50	4215-03	4214-51	4214-52	N/A	4055-50	4382-500
L72M-3AP-QEN	3/8"	Micro-Fog	Metal - Long	4224-50	4215-03	4214-51	4214-52	N/A	4055-50	4382-500
L72C-3AP-QDN	3/8"	Oil Fog	Metal	4224-50	4215-03	4214-51	4214-52	N/A	4055-51	4382-500









L73 Series Model No.	Port size PTF	Lubrication type	Bowl type	Wall mounting bracket	Quick-mount pipe adapter	Quikclamp	Quikclamp and bracket	Quick fill nipple	Sight feed dome*	Service kit**
										
L73C-2AP-QTN	1/4"	Oil Fog	Transparent	4424-50	4315-01	4314-51	4314-52	18-011-024	4055-51	4382-600
L73C-3AP-QTN	3/8"	Oil Fog	Transparent	4424-50	4315-01	4314-51	4314-52	18-011-024	4055-51	4382-600

\* Micro-Fog sight dome shown \*\* Kit includes: Seal and gasket









● In stock

◆ Ships within one week

L73 Series Model No.	Port size PTF	Lubrication type	Bowl type	Wall mounting bracket	Quick-mount pipe adapter	Quikclamp	Quikclamp and bracket	Quick fill nipple	Sight feed dome*	Service kit**
										
L73M-2AP-QPN ●	1/4"	Micro-Fog	Transparent with guard	4424-50 ●	4315-01 ●	4314-51 ●	4314-52 ●	18-011-024 ●	4055-50 ●	4382-600 ●
L73C-2AP-QPN ●	1/4"	Oil Fog	Transparent with guard	4424-50 ●	4315-01 ●	4314-51 ●	4314-52 ●	18-011-024 ●	4055-51 ●	4382-600 ●
L73M-3AP-QPN ●	3/8"	Micro-Fog	Transparent with guard	4424-50 ●	4315-01 ●	4314-51 ●	4314-52 ●	18-011-024 ●	4055-50 ●	4382-600 ●
L73C-3AP-QPN ●	3/8"	Oil Fog	Transparent with guard	4424-50 ●	4315-01 ●	4314-51 ●	4314-52 ●	18-011-024 ●	4055-51 ●	4382-600 ●
L73M-4AP-QPN ●	1/2"	Micro-Fog	Transparent with guard	4424-50 ●	4315-03 ●	4314-51 ●	4314-52 ●	18-011-024 ●	4055-51 ●	4382-600 ●

L73 Series Model No.	Port size PTF	Lubrication type	Bowl type	Wall mounting bracket	Quick-mount pipe adapter	Quikclamp	Quikclamp and bracket	Quick fill nipple	Sight feed dome*	Service kit**
										
L73M-2AP-QDN ●	1/4"	Micro-Fog	Metal	4424-50 ●	4315-01 ●	4314-51 ●	4314-52 ●	18-011-024 ●	4055-50 ●	4382-600 ●
L73C-2AP-QDN ●	1/4"	Oil Fog	Metal	4424-50 ●	4315-01 ●	4314-51 ●	4314-52 ●	18-011-024 ●	4055-51 ●	4382-600 ●
L73M-3AP-QDN ●	3/8"	Micro-Fog	Metal	4424-50 ●	4315-02 ●	4314-51 ●	4314-52 ●	18-011-024 ●	4055-50 ●	4382-600 ●
L73C-3AP-QDN ●	3/8"	Oil Fog	Metal	4424-50 ●	4315-02 ●	4314-51 ●	4314-52 ●	18-011-024 ●	4055-51 ●	4382-600 ●
L73C-4AP-QDN ●	1/2"	Oil Fog	Metal	4424-50 ●	4315-03 ●	4314-51 ●	4314-52 ●	18-011-024 ●	4055-51 ●	4382-600 ●
L73M-4AP-QDN ●	1/2"	Micro-Fog	Metal	4424-50 ●	4315-03 ●	4314-51 ●	4314-52 ●	18-011-024 ●	4055-50 ●	4382-600 ●

L74 Series Model No.	Port size PTF	Lubrication type	Bowl type	Wall mounting bracket	Quick-mount pipe adapter	Quikclamp	Quikclamp and bracket	Quick fill nipple	Sight feed dome*	Service kit**
										
L74M-3AP-QPN ●	3/8"	Micro-Fog	Transparent with guard	4324-50 ●	4315-02 ●	4314-51 ●	4314-52 ●	18-011-024 ●	4055-50 ●	4382-700 ●
L74C-3AP-QPN ●	3/8"	Oil Fog	Transparent with guard	4324-50 ●	4315-02 ●	4314-51 ●	4314-52 ●	18-011-024 ●	4055-51 ●	4382-700 ●
L74M-4AP-QPN ●	1/2"	Micro-Fog	Transparent with guard	4324-50 ●	4315-03 ●	4314-51 ●	4314-52 ●	18-011-024 ●	4055-50 ●	4382-700 ●
L74C-4AP-QPN ●	1/2"	Oil Fog	Transparent with guard	4324-50 ●	4315-03 ●	4314-51 ●	4314-52 ●	18-011-024 ●	4055-51 ●	4382-700 ●
L74M-6AP-QPN ●	3/4"	Micro-Fog	Transparent with guard	4324-50 ●	4315-04 ●	4314-51 ●	4314-52 ●	18-011-024 ●	4055-50 ●	4382-700 ●
L74C-6AP-QPN ●	3/4"	Oil Fog	Transparent with guard	4324-50 ●	4315-04 ●	4314-51 ●	4314-52 ●	18-011-024 ●	4055-51 ●	4382-700 ●

L74 Series Model No.	Port size PTF	Lubrication type	Bowl type	Wall mounting bracket	Quick-mount pipe adapter	Quikclamp	Quikclamp and bracket	Quick fill nipple	Sight feed dome*	Service kit**
										
L74M-3AP-QDN ●	3/8"	Micro-Fog	Metal	4324-50 ●	4315-02 ●	4314-51 ●	4314-52 ●	18-011-024 ●	4055-50 ●	4382-700 ●
L74C-3AP-QDN ●	3/8"	Oil Fog	Metal	4324-50 ●	4315-02 ●	4314-51 ●	4314-52 ●	18-011-024 ●	4055-51 ●	4382-700 ●
L74M-4AP-QAN ●	1/2"	Micro-Fog	Metal (1 qt.)	4324-50 ●	4315-03 ●	4314-51 ●	4314-52 ●	18-011-024 ●	4055-50 ●	4382-700 ●
L74M-4AP-QDN ●	1/2"	Micro-Fog	Metal	4324-50 ●	4315-03 ●	4314-51 ●	4314-52 ●	18-011-024 ●	4055-50 ●	4382-700 ●
L74C-4AP-QDN ●	1/2"	Oil Fog	Metal	4324-50 ●	4315-03 ●	4314-51 ●	4314-52 ●	18-011-024 ●	4055-51 ●	4382-700 ●
L74M-6AP-QDN ●	3/4"	Micro-Fog	Metal	4324-50 ●	4315-04 ●	4314-51 ●	4314-52 ●	18-011-024 ●	4055-50 ●	4382-700 ●
L74C-6AP-QDN ●	3/4"	Oil Fog	Metal	4324-50 ●	4315-04 ●	4314-51 ●	4314-52 ●	18-011-024 ●	4055-51 ●	4382-700 ●

\* Micro-Fog sight dome shown \*\* Kit includes: Seal and gasket

- In stock
- ◆ Ships within one week

**Excelon design allows in-line installation or modular installation with other Excelon products**

**Push to lock adjusting knob with tamper evident accessory**

**Helps protect air operated equipment from over pressurization**

IMI Norgren pressure relief valves comply with category 0 (S.E.P.) and category 1 of the Pressure Equipment Directive 97/23/EC.

**Technical data**

**Medium:**

Compressed air

**Gauge ports:**

**V72G:** 1/8" PTF

**V74G:** 1/4" PTF

**Relief port:**

**V72G:** 1/4" PTF

**V74G:** 1/2" PTF

**Ambient temperature\*:**

(72) -30° to 150°F (-34° to 65°C)

(74) -30° to 175°F (-34° to 80°C)

\* Consult our Technical Service for use below +2°C

**Relief pressure adjustment**

**range:** 150 psig (10 bar)

NOTE: Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

**Materials**

**V72G**

Body: zinc body

Bonnet: acetal

Diaphragm: nitrile

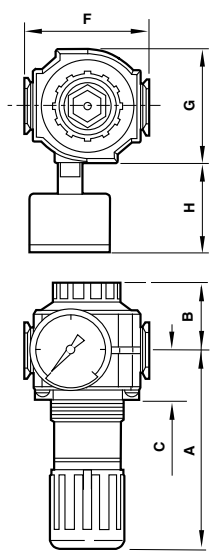
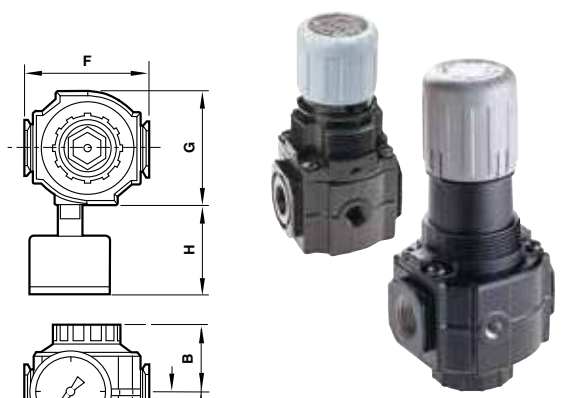
**V74G**

Body & bonnet: aluminum

Valve: aluminum and nitrile

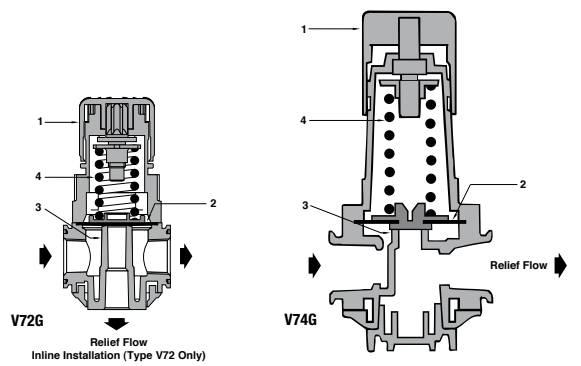
Diaphragm: CR

Bottom plug: acetal













**Dimensions (inches)**











Series	A	B	C	F	G	H	Panel Ø	Panel depth
V72	2.87	0.98	1.02	1.97	1.89	1.38	1.57	0 to 0.2
V74	5.00	1.69	1.22	3.15	2.91	2.20	2.05	0.08 to 0.2



**Models**

**Accessories**

V72 Series Model No.	Port size PTF	Wall mounting bracket	Quick-mount pipe adapter	Quikclamp	Quikclamp and bracket	Neck mounting bracket	Tamper evident cover & wire	Gauge 0 to 160 psig	Silencer	Diaphragm and seal
										
V72G-2AK-NMN	1/4"	4224-50	4215-02	4214-51	4214-52	74316-50	4255-51	18-013-212	MB002A	4209-03
V72G-3AK-NMN	3/8"	4224-50	4215-03	4214-51	4214-52	74316-50	4255-51	18-013-212	MB002A	4209-03

V74 Series Model No.	Port size PTF	Wall mounting bracket	Quick-mount pipe adapter	Quikclamp	Quikclamp and bracket	Neck mounting bracket	Tamper evident cover & wire	Gauge 0 to 160 psig	Silencer	Diaphragm and seal
										
V74G-3AK-NMN	3/8"	4324-50	4315-02	4314-51	4314-52	4368-51	4355-51	18-013-209	MB004A	4384-700
V74G-4AK-NMN	1/2"	4324-50	4315-03	4314-51	4314-52	4368-51	4355-51	18-013-209	MB004A	4384-700
V74G-6AK-NMN	3/4"	4324-50	4315-04	4314-51	4314-52	4368-51	4355-51	18-013-209	MB004A	4384-700

- In stock
- ◆ Ships within one week



Excelon® design allows in-line or modular installation

Valves can be locked in the closed position only

Excelon® 3-port/2-position lockout valves help conform to OSHA Lockout regulations in USA market.

**Technical data**

**Fluid:**

Compressed air

**Maximum Pressure:**

250 psig (17 bar)

**Operating Temperature\*:**

-30° to 150°F (-34° to 65°C)

\* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

**Cv factor from IN to OUT ports**

1/4" ports: 4.0

3/8" ports: T73 - 8.0, T74 - 7.1

1/2" ports: T73 - 7.8, T74 - 8.1

3/4" ports: 7.7

**Cv factor from OUT to Exhaust ports on 3-port/2-position valves:**

0.2.

Hole diameter in slide for padlock:

T72 and T73: 5/16" (8 mm)

T74: 0.29" (7.5 mm)

**Materials**

Body: Zinc

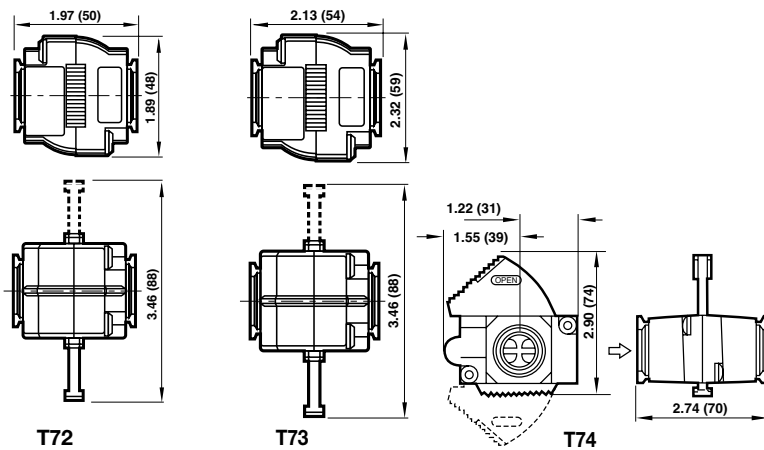
Slide: Acetal plastic

Elastomers: Nitrile



T72 and T73

T74



T72

T73

T74

**Models**

Model No. Port size PTF



- T72E-2AA-P1N ● 1/4"
- T72E-3AA-P1N ● 3/8"
- T73E-2AA-P1N ● 1/4"
- T73E-3AA-P1N ● 3/8"
- T73E-4AA-P1N ● 1/2"



- T74E-3AA-P1N ● 3/8"
- T74E-4AA-P1N ● 1/2"
- T74E-6AA-P1N ● 3/4"

**Accessories**

Quick-mount pipe adapter Quikclamp Quikclamp and bracket

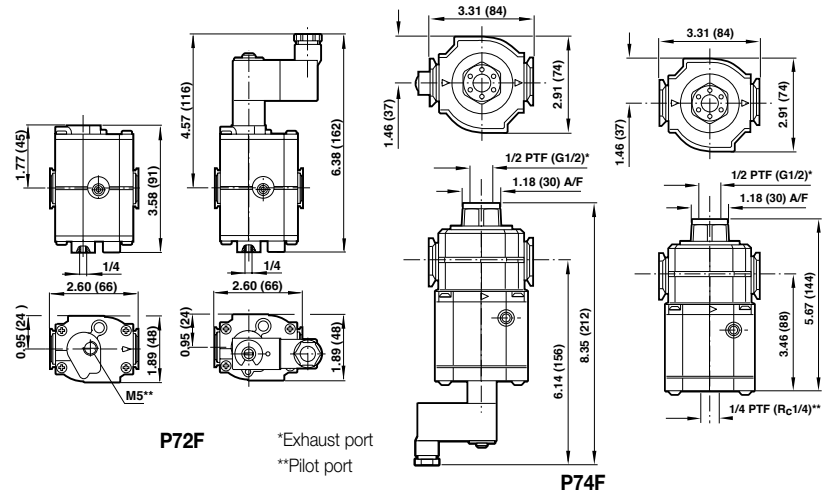
Model No.	Port size PTF	Quick-mount pipe adapter	Quikclamp	Quikclamp and bracket
T72E-2AA-P1N ●	1/4"	4215-02 ●	4214-51 ●	4214-52 ●
T72E-3AA-P1N ●	3/8"	4215-03 ●	4214-51 ●	4214-52 ●
T73E-2AA-P1N ●	1/4"	4315-01 ●	4314-51 ●	4314-52 ●
T73E-3AA-P1N ●	3/8"	4315-02 ●	4314-51 ●	4314-52 ●
T73E-4AA-P1N ●	1/2"	4315-03 ●	4314-51 ●	4314-52 ●
T74E-3AA-P1N ●	3/8"	4315-02 ●	4314-51 ●	4314-52 ●
T74E-4AA-P1N ●	1/2"	4315-03 ●	4314-51 ●	4314-52 ●
T74E-6AA-P1N ●	3/4"	4315-04 ●	4314-51 ●	4314-52 ●

- In stock
- ◆ Ships within one week

**Controlled increase of downstream pressure on start up reduces possible damage and hazard to personnel and equipment**  
**High forward flow capacity**  
**High flow dump facility**

**Technical data**

**Fluid:**  
Compressed air  
**Maximum pressure solenoid operated:**  
150 psig (10 bar)  
**Maximum pressure pilot operated:**  
250 psig (17 bar)  
**Minimum operating pressure:**  
44 psig (3 bar)  
**Operating temperature solenoid operated:**  
0° to 125°F\* (-20° to 50°C)  
**Operating temperature pilot operated:**  
0°\* to 150°F (-20°\* to 65°C) (72)  
 0°\* to 175°F (-20°\* to 80°C) (74)  
 \* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).



**Models**

**P72F Series**  
24 VDC  
Solenoid Operated

**P72F Series**  
Air Pilot  
Operated

Port size PTF



P72F-2AC-PFA ●  
P72F-3AC-PFA ●



P72F-2AA-NNN ●  
P72F-3AA-NNN ●

1/4"  
3/8"

**Accessories**

**Quickmount pipe adapter**   **Quikclamp**   **Quikclamp and bracket**   **Connector**   **Silencer**



4215-02 ●   4214-51 ●   4214-52 ●   54934-01 ●   MB002A ●  
 4215-03 ●   4214-51 ●   4214-52 ●   54934-01 ●   MB002A ●

**P74F Series**  
24 VDC  
Solenoid Operated

**P74F Series**  
Air Pilot  
Operated

Port size PTF



P74F-4AC-PFA ●  
P74F-6AC-PFA ●



P74F-4AA-NNN ●  
P74F-6AA-NNN ●

1/2"  
3/4"

**Quickmount pipe adapter**   **Quikclamp**   **Quikclamp and bracket**   **Connector**   **Silencer**



4315-03 ●   4314-51 ●   4314-52 ●   54934-01 ●   MB004A ●  
 4315-04 ●   4314-51 ●   4314-52 ●   54934-01 ●   MB004A ●

● In stock  
 ◆ Ships within one week

**Compact design**

**Filter has high efficiency water and particle removal**

**Push to lock adjusting knob with  
tamper resistant option**

**Nearly constant oil density output with varying air flow**

**Use Micro-Fog models in applications  
containing one or more points of lubrication.**



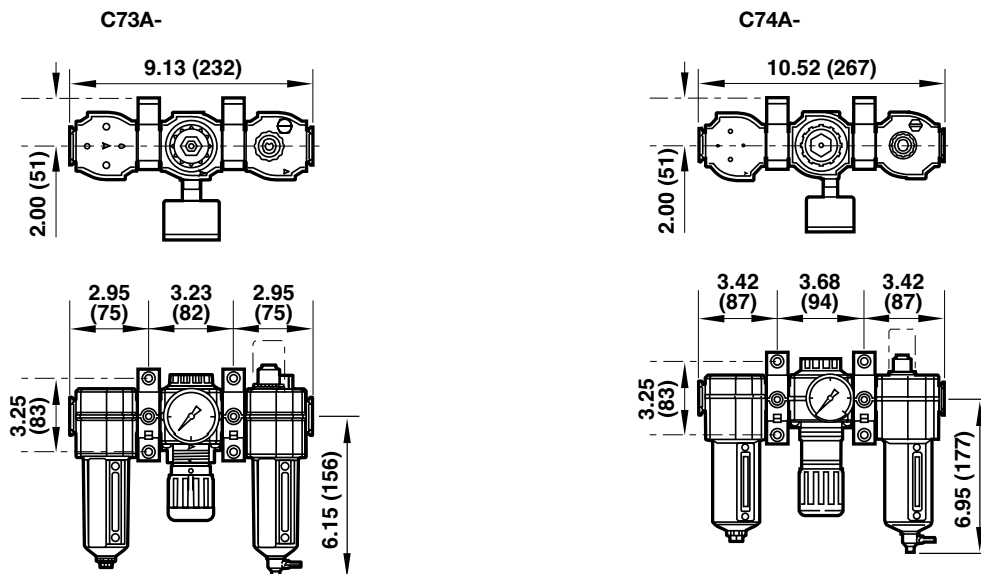
**Technical data**

Refer to individual component sections for product specifications

**Ordering information**

Models listed include PTF threads. Filter drain as noted, metal bowl with level indicator, and a 40µm element. Regulator (R) is relieving type with knob adjustment, 5 to 150 psig (.3 to 10 bar) regulating spring, and gauge. Lubricator (L) is a Micro-Fog model with 1/4 turn manual drain and metal bowl with level indicator.

Combination Unit Type	Port Size	Model with 1/4 turn manual filter drain	Model with auto filter drain	Model with auto filter drain and Quikclamp wall brackets	Weight lb (kg)
Filter-Regulator-Lubricator	3/8"	-	<b>C73A-3AK-AD3-RMG-QDN</b> ●	-	4.36 (1.98)
Filter-Regulator-Lubricator	1/2"	<b>C73A-4AK-QD3-RMG-QDN</b> ●	-	-	4.36 (1.98)
Filter-Regulator-Lubricator	1/2"	-	-	<b>C74A-4AK-AD3-RMG-QDB</b> ●	6.04 (2.74)
Filter-Regulator-Lubricator	1/2"	-	<b>C74A-4AK-AD3-RMG-QDN</b> ●	-	6.04 (2.74)
Filter-Regulator-Lubricator	1/2"	<b>C74A-4AK-QD3-RMG-QDN</b> ●	-	-	6.04 (2.74)



Dimensions in inches (mm).

- In stock
- ◆ Ships within one week

**True modularity with Norgren Quikclamp® connections**

**Quick release bayonet bowl**

**Lubricator flow sensor provides a nearly constant oil/air ratio over a wide range of air flows**

**All around (360°) visibility of the lubricator sight-feed dome simplifies installation and adjustment**

**Regulator balanced valve minimizes effect of variation in the inlet pressure on the outlet pressure**



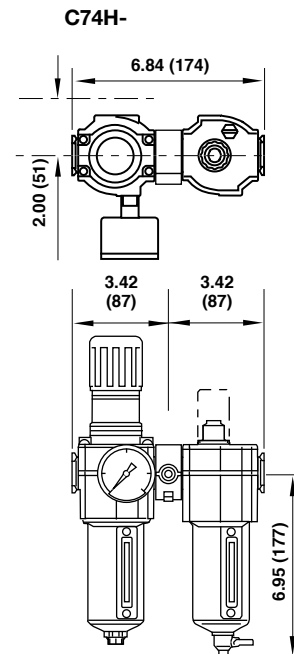
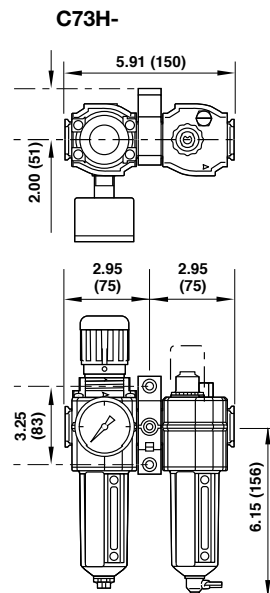
### Technical data

Refer to individual component sections for product specifications

### Ordering information

Models listed include PTF threads. Filter drain as noted, metal bowl with level indicator, and a 40µm element. Regulator (R) is relieving type with knob adjustment, 5 to 150 psig (.3 to 10 bar) regulating spring, and gauge. Lubricator (L) is a Micro-Fog model with 1/4 turn manual drain and metal bowl with level indicator.

Combination Unit Type	Port Size	Model with 1/4 turn manual filter drain	Model with auto filter drain	Weight lb (kg)
Filter/Regulator-Lubricator	3/8"	C72H-3AK-QD3-RMG-QDB (with Quikclamp wall brackets) ●	–	2.37 (1.08)
Filter/Regulator-Lubricator	1/2"	C73H-4AK-QD3-RMG-QDB (with Quikclamp wall brackets) ●	–	3.0 (1.36)
Filter/Regulator-Lubricator	1/2"	C74H-4AK-QD3-RMG-QDN (no wall brackets) ●	C74H-4AK-AD3-RMG-QDN ●	5.07 (2.30)



- In stock
- ◆ Ships within one week

Dimensions in inches (mm).

Helps eliminate condensate at point-of-use.

Replaceable element filters outlet air to help prevent desiccant dust migration down stream.

Desiccant color changes from orange to light green at the 35% moisture adsorption level at 77°F, and continues to an intense violet at the 50% moisture adsorption level at 77° (25°C).

Desiccant can be dried and reused or replaced with new packet.

Typical dew point suppression of 15°F (-10°C) below inlet ambient pressure dew point.



**Technical data**

**Fluid: Compressed air**

**Maximum pressure**

150 psig (10 bar)

**Operating temperature\***

0° to 125°F (-20° to 50°C)

\* Air supply must be dry enough to avoid ice formation at temperatures below 35°F( 2°C).

**Nominal bowl capacity**

0.25 pounds (0.11 kg) desiccant

**Maximum allowable air flow:**

10 scfm (4.72 dm³/g)

**Nominal air drying capacity:**

At 100 psig (6.9 bar) inlet pressure and 77°F (25°C) 750 cubic feet (21 cubic meters)

**Minimum required prefilters:**

General purpose filter with 5-micron element and an oil removal filter with equivalent pipe size and flow capacity equal to or greater than the desiccant dryer. (Oil vapor removal filter suggested).

**Desiccant regeneration:**

Desiccant can be dried and reused by removing from dryer and heating to 275°F (135°C). Regeneration is complete when desiccant returns to original orange color.

**Materials**

Body: Aluminum

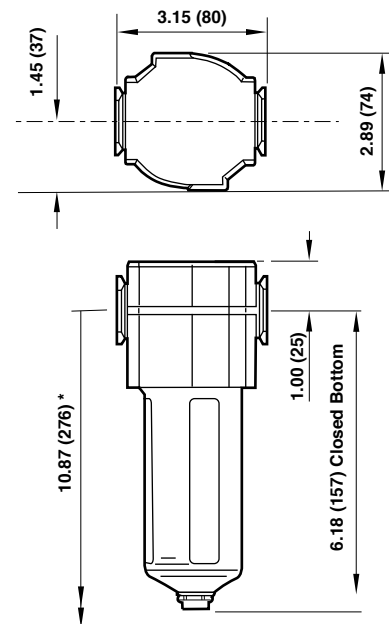
Bowl: Polycarbonate with steel bowl guard

Supply tube assembly: Aluminum/ stainless steel screen

Desiccant drying agent: Silica gel


Filter element: Sintered polypropylene

Elastomers: CR and Nitrile



\* Minimum clearance required to remove bowl.

**Models**

Model No.	Port size PTF	Bowl (closed bottom)	Maximum pressure psig (bar)	Element	Service kit*	Replacement Desiccant**	Weight lb (kg)
 W74D3ANNPN ●	3/8"	Transparent w/metal Guard	150 (10)	Desiccant	4385-710	4385-700	2.00 (0.91)
W74D4ANNPN ●	1/2"	Transparent w/metal Guard	150 (10)	Desiccant	4385-710	4385-700	2.00 (0.91)

\* Seal and filter element

\*\* 5 bags desiccant, 0.25 lb. (0.11 kg) in each bag

● In stock

◆ Ships within one week

## SWITCH TO IMI NORGREN WITH OUR **CONVERSION TOOL**

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Not finding an exact match? Call **1.800.514.0129** to set up a time with our technical experts to discuss one part number or a complete list. We are capable of converting products that appear anywhere in your pneumatic system!

Port size: G1/2" (ISO G)

Complete air processing units pre-assembled, ready to install

**Technical data**

**Medium:**

Compressed air only

**Maximum operating pressure:**

17 bar (246 psi)

**Pressure range:**

0.3 to 10 bar (4 to 145 psi)

**Port sizes:**

G1/2

**Gauge ports:**

Rc 1/8

**Relieving:**

Standard

**Element:**

40 µm

**Drain:**

Manual or automatic

**Automatic drain conditions:**

Pressure to close drain:

> 0.3 bar (4.3 psi)

Pressure to open drain:

< 0.2 bar (2.9 psi)

Minimum air flow to close drain:

0.6 dm³/s (1.3 scfm)

**Bowl size (lubricator):**

0.2 liter (7 fluid oz)

**Ambient/Media temperature:**

-20°C to 80°C (-4°F to 176°F)\*

\* Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

**Materials:**

Body and yoke: Zinc alloy

Connection piece: Aluminum

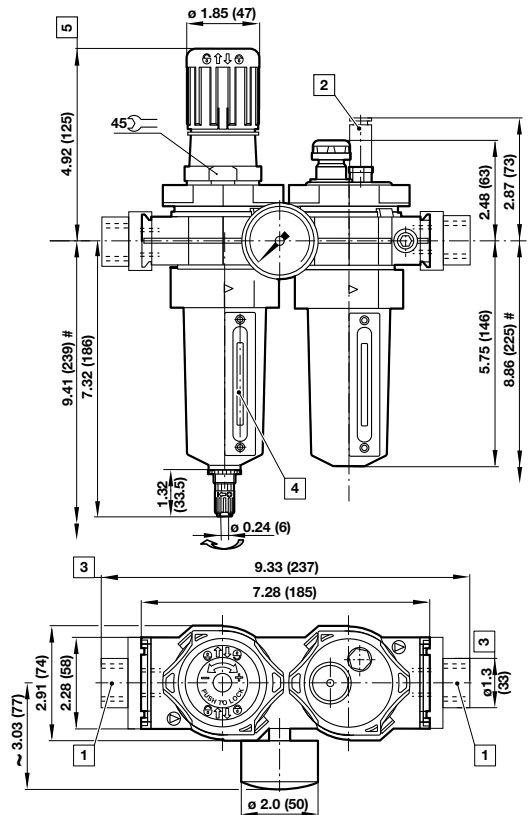
Metal bowl: Aluminum

Prismatic liquid level indicator: Grilamid


Sight dome: transparent PA

Element: Sintered bronze or plastic

Elastomers: NBR



**Models**

Model No.	Port size ISO G	Size	Pressure range (bar)	Element (µm)	Drain	Lubricator	Mounting	Gauge	Shut-off valve
 BL64-401 ●	G1/2"	Basic	0.3to 10	40	Automatic	Micro fog	Bracket	With	With

● In stock

◆ Ships within one week

**Effective liquid removal and positive solid particle filtration**  
**Large filter element area provides minimum pressure drop**



F64G

F68E

### Technical data

#### Fluid:

Compressed air, neutral gases

NOTE: Contact technical support for use with other media.

#### 64 Series

##### Maximum pressure

Metal bowl: 250 psig (17 bar)

##### Operating temperature\*:

Metal bowl:

0°F to 175°F (-20°C to 80°C)

#### 68 Series

##### Maximum pressure:

250 psig (17 bar)

##### Operating temperature\*:

0°F to 175°F (-20°C to 80°C)

\* Air supply must be dry enough to avoid ice formation at temperatures below +35°F (+2°C).

#### Materials

##### F64G

Body: Zinc

Yoke: Zinc

Metal bowl: aluminum

Standard metal bowl prismatic

liquid level indicator lens: Grilamid

Element: polypropylene

Elastomers: nitrile

##### F68E

Body: aluminum

Yoke: aluminum

Bowl: aluminum

Element: sintered bronze or

polypropylene

Elastomers: nitrile





Auto Drain




Manual Drain

### F64G Ordering information

Port Size	Model with auto drain	Model with 1/4 turn manual drain	Filtration	Flow† scfm (dm <sup>3</sup> /s)	Weight lb (kg)
					
No yoke	<b>F64G-NNN-AD3</b> ●	<b>F64G-NNN-QD3</b> ●	40 μm	140 (66)	3.13 (1.42)

†Typical flow with 40 μm element at 90 psig (6.3 bar) inlet pressure and a 5 psig (0.35 bar) pressure drop.

### F68E Ordering information - Long bowl (1 liter)

Port Size	Model auto drain 1 qt (1 liter bowl)	Filtration	Flow† scfm (dm <sup>3</sup> /s)	Weight lb (kg)
				
No yoke	<b>F68E-NNN-AU3</b> ●	40 μm	403 (190)	5.14 (2.33)




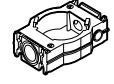
†Typical flow with 40 μm element at 90 psig (6.3 bar) inlet pressure and a 5 psig (0.35 bar) pressure drop.

● In stock

◆ Ships within one week

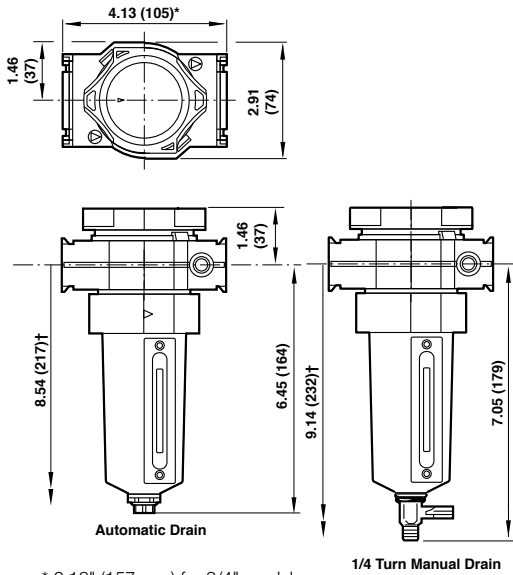


Accessories

Series	Size	Bracket kit	Bracket kit	3/2 Shut-off valve PTF threads	Single Yoke
F64G	1/4				
	3/8				
	1/2				
F68G	3/4	18-001-979 ●	–		Y68A-6AA-N1N ●
	1	18-001-979 ●	–	T68E-8AB-B2N ●	Y68A-8AN-N1N ●
	1-1/4	–	–		Y68A-AA-N1N ●
	1-1/2	–	–		Y68A-BAN-N1N ●

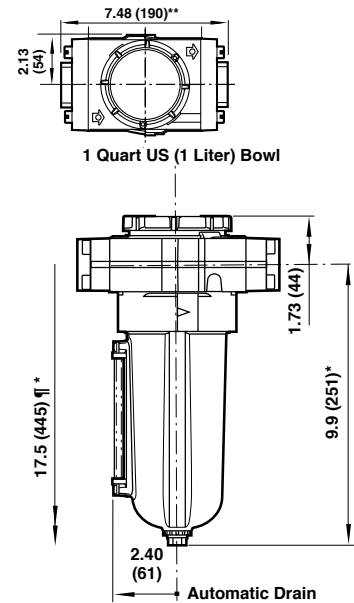
Dimensions in inches (mm).

F64G



\* 6.18" (157 mm) for 3/4" models  
† Minimum clearance required to remove bowl.

F68E



† For optional electrical service life indicator add 0.20" (5 mm)  
\*\* For 1-1/4" and 1-1/2" ported yokes, add 0.39" (10 mm).  
‡ Minimum clearance required to remove bowl.

Products shown with mounting yokes.

- In stock
- ◆ Ships within one week

**Olympian Plus plug in system**

Adsorbing type activated carbon element removes oil vapors and most hydrocarbon odors

F68 V/Y inlet air must be pre filtered with an F68G and F68 C/H


**Technical data**
**Fluid:**

Compressed air, neutral gases

NOTE: Contact technical support for use with other media.

**Maximum pressure**

250 psig (17 bar)

**Operating temperature\*:**

0°F to 150°F (-20°C to 65°C)

\* Air supply must be dry enough to avoid ice formation at temperatures below +35°F (+2°C).

**Maximum remaining oil content:**

0.003 mg/m<sup>3</sup> at +70°F (+20°C)

**Materials**



Body: F64- zinc

Yoke: F64- zinc

Bowl: F64- aluminum

Elastomers: nitrile

**F64B Ordering information**



Port Size	Model with transparent bowl and auto drain	Model with metal bowl, auto drain and liquid level indicator	Filtration	Flow† scfm (dm <sup>3</sup> /s)	Weight lb (kg)
No yoke	 <b>F64B-NNN-ATO</b> ●	 <b>F64B-NNN-ARO</b> ●	Oil vapor removal	15 (7)	3.51 (1.59)

\*Maximum flow at 90 psig (6.3 bar) inlet pressure to maintain stated oil removal performance.

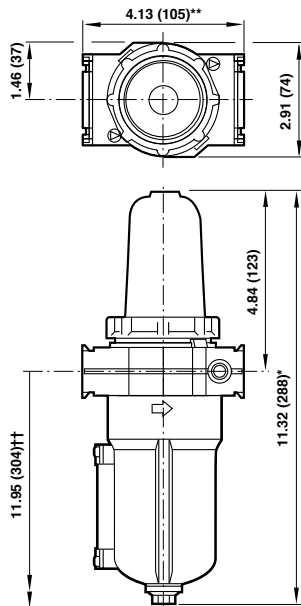
● In stock

◆ Ships within one week

Accessories

Series	Size	Bracket kit	Single Yoke
			
F64B	1/4	74504-50 ●	Y64A-2AA-N1N ●
	3/8	74504-50 ●	Y64A-3AA-N1N ●
	1/2	74504-50 ●	Y64A-4AA-N1N ●

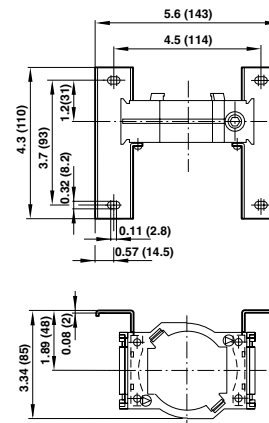
F64B



\*Automatic drain shown. Subtract 0.3" (mm) for manual drain.  
 ††Minimum clearance required to remove bowl.  
 \*\* 6.18 (157 mm) for models with 3/4" ports.

Dimensions in inches (mm)  
 Products shown with mounting yokes.

Mounting bracket (F64B)



- In stock
- ◆ Ships within one week

**Olympian Plus plug in system**
**Effective liquid removal and particulate filtration**
**Large filter element area provides minimum pressure drop**
**High flow unit with large valve and diaphragm**
**Push to lock adjusting knob with tamper resistant option**

**B64G**
**B68G**
**Technical data**
**Fluid:**

 Compressed air, neutral gases  
 NOTE: Contact technical support for use with other media.

**B64G**
**Maximum pressure:**

Metal bowl: 250 psig (17 bar)

**Operating temperature\*:**

Metal bowl:

0°F to 175°F (-20°C to 80°C)

**B68E/G**
**Maximum pressure:**

250 psig (17 bar)

**Operating temperature\*:**

 0°F to 175°F (-20°C to 80°C)  
 \* Air supply must be dry enough to avoid ice formation at temperatures below +35°F (+2°C).

**Particle removal:**

5 or 40 µm.

**Materials**
**B64G**

Body: zinc

Bonnet: aluminum

Yoke: zinc

Metal bowl: aluminum

Standard metal bowl prismatic

liquid level indicator lens: Grilamid

Element: sintered polypropylene

Elastomers: nitrile and CR

Valve: polypropylene and TPV

**B68E/G**

Body: aluminum

Yoke: aluminum

Bonnet: aluminum

Adjusting knob: acetal resin

Valve: aluminum



Bowl: aluminum

Sight glass: Pyrex



Element: sintered bronze or polypropylene

Elastomers: nitrile and CR

**B64G Ordering information**

Port Size	Model with auto drain	Model with 1/4 turn manual drain	Filtration	Flow† scfm (dm <sup>3</sup> /s)	Weight lb (kg)
					
No yoke	<b>B64G-NNK-AD3-RMN</b> ●	<b>B64G-NNK-QD3-RMN</b> ●	40 µm	140 (66)	3.13 (1.42)

**B68G/E Ordering information**

Port Size	Model with 1/4 turn manual drain 1 qt (1 liter) bowl	Model with automatic drain, 1 qt (1 liter) bowl	Filtration	Flow† scfm (dm <sup>3</sup> /s)	Weight lb (kg)
					
No yoke	<b>B68E-NAK-QU3-RLN</b> ●	<b>B68E-NAK-AU3-RLN</b> ●	40 µm	509 (240)	7.25 (3.29)

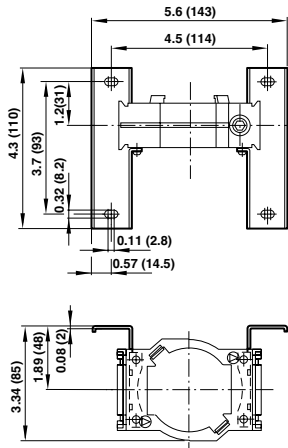
● In stock

◆ Ships within one week

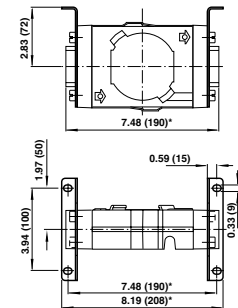
Accessories

Series	Size	Bracket kit	Bracket kit	Gauge 0 to 160 psig	Single yoke	Tamper resistant kit	
B64G	1/4	74504-50	●	18-013-204	●	Y64A-2AA-N1N ●	4355-51 ●
	3/8	74504-50	●	18-013-204	●	Y64A-3AA-N1N ●	4355-51 ●
	1/2	74504-50	●	18-013-204	●	Y64A-4AA-N1N ●	4355-51 ●
	3/4	74504-50	●	18-013-204	●	Y64A-6AA-N1N ●	4355-51 ●
B68G	3/4	18-001-979	●	18-013-204	●	Y68A-6AN-N1N ●	4355-51 ●
	1	18-001-979	●	18-013-204	●	Y68A-8AN-N1N ●	4355-51 ●
	1-1/4	-		18-013-204	●	Y68A-AAN-N1N ●	4355-51 ●
	1-1/2	-		18-013-204	●	Y68A-BAN-N1N ●	4355-51 ●

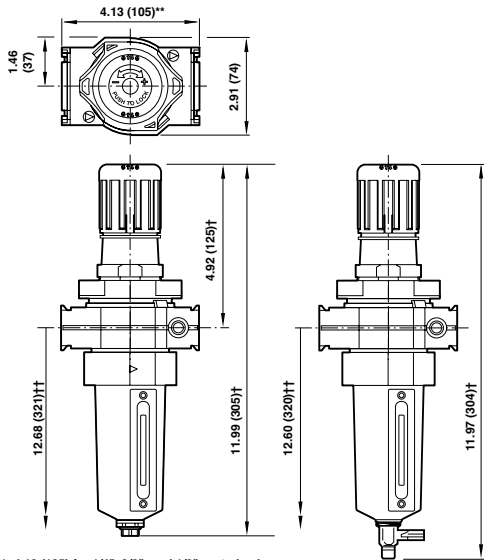
Mounting bracket  
(B64G)



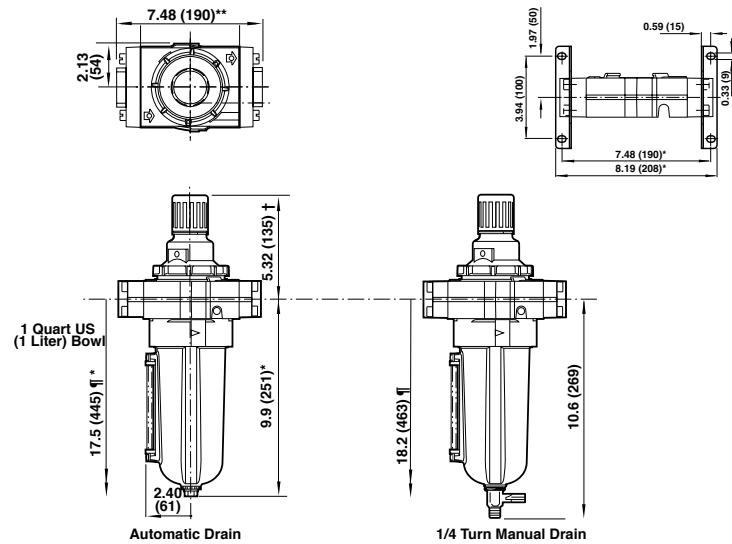
Mounting bracket (B68G)



B64G



B68E/G



\*\* 4.13 (105) for 1/4", 3/8", and 1/2" ported yokes.  
6.18" (157) for 3/4" ported yokes.  
† Add 1.46 (37) for units with T-handle adjustment.  
‡ Minimum clearance required to remove unit.  
§ Add 1.46 (37) for units with T-handle adjustment.

† Add 1.46" (37 mm) for unit with T-bar adjustment.  
\*\* For 1-1/4" and 1-1/2" ported yokes, add 0.39" (10 mm).

\* Dimension also applies to closed bottom bowl.  
‡ Minimum clearance required to remove bowl.

Products shown with mounting yokes.

- In stock
- ◆ Ships within one week

**Olympian Plus plug in design**
**High flow general purpose regulator**
**Push to lock adjusting knob with  
tamper resistant option**
**Mount in any orientation**

**R64G**
**R68G**
**Technical data**
**R64G/R**
**Maximum pressure:**

250 psig (17 bar)

**Operating temperature\*:**

-0°F to 175°F (-20°C to 80°C)

**R68G**
**Maximum pressure:**

300 psig (20 bar)

**Operating temperature\*:**

0°F to 175°F (-20°C to 80°C)

\* Air supply must be dry enough to avoid ice formation at temperatures below +35°F (+2°C).

**Materials**
**R64G/R**

Body: zinc

Bonnet: aluminum

Yoke: zinc

Elastomers: nitrile

Valve: Polypropylene and TPV

**R68G**

Body: aluminum

Yoke: aluminum


Bonnet: aluminum

Adjusting knob: acetal resin


Valve: aluminum

Elastomers: nitrile

**R64G Ordering information**

Port Size	Model	Diaphragm type	Adjustment	Pressure range PSI (bar)	Weight lb (kg)
					
No yoke	<b>R64G-NNK-RMN</b> ●	Relieving	Knob	4 to 145 (0.3 to 10)	2.6 (1.16)






**R68G Ordering information**

Port Size	Model	Diaphragm type	Gauge port thread	Adjustment	Pressure range PSI (bar)	Weight lb (kg)
						
No yoke	<b>R68G-NAK-RLN</b> ●	Relieving	PTF	Knob	5.8 to 116 (0.4 to 8)	2.6 (1.16)
No yoke	<b>R68G-NNK-RLN</b> ●	Relieving	ISO Rc	Knob	5.8 to 116 (0.4 to 8)	2.6 (1.16)

● In stock

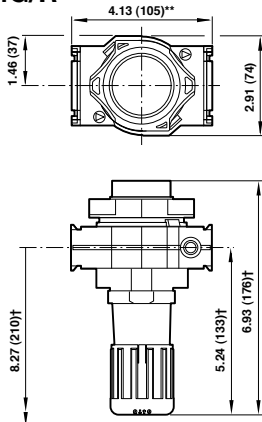
◆ Ships within one week

Accessories

Series	Size	Bracket kit	Bracket kit	Gauge 0 to 160 psig*	Single yoke	Tamper resistant kit
R64G	1/4					
	3/8					
	1/2					
R68G	3/4	18-001-979 ●	–	18-013-204 ●	Y64A-2AA-N1N ●	4355-51 ●
	1	18-001-979 ●	–	18-013-204 ●	Y64A-3AA-N1N ●	4355-51 ●
	1-1/4	–	–	18-013-204 ●	Y64A-4AA-N1N ●	4355-51 ●
	1-1/2	–	–	18-013-204 ●	Y68A-6AN-N1N ●	4355-51 ●
					Y68A-8AN-N1N ●	4355-51 ●

\* For additional pressures and options see our website.

R64G/R

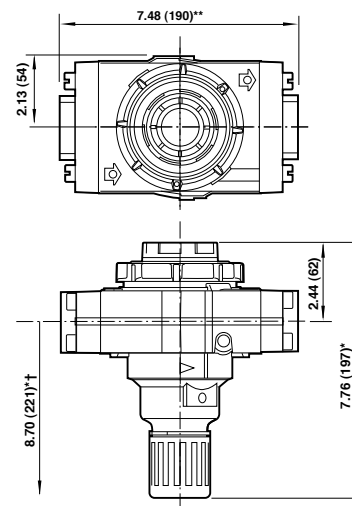


† Reduces by 4 mm with knob in locked position.  
Add 37 mm for unit with 'T' handle.  
\*\* 6.18" (157 mm) for models with 3/4" ports

Dimensions in inches (mm)

Products shown with mounting yokes.

R68G



\* Add 1.46" (37mm) for unit with T-bar.  
\*\* Add 0.39" (10mm) 1-1/4" and 1-1/2" models.  
† Minimum clearance required to remove unit.

Panel mounting hole diameter: 2.06" (52 mm)  
Maximum panel thickness: 0.25" (6 mm)

- In stock
- ◆ Ships within one week

**Olympian Plus plug in design**
**Constant oil density output  
with varying flow**
**Easy fill with quick release bayonet bowl**
**High visibility prismatic sight glass**

**L64M/C**
**L68M/C**
**Technical data**
**L64M/C**
**Maximum pressure:**

250 psig (17 bar)

**Operating temperature\*:**

0°F to 175°F (-20°C to 80°C)

**L68M/C**
**Maximum pressure:**

250 psig (20 bar)

**Operating temperature\*:**

0°F to 175°F (-20°C to 80°C)

\* Air supply must be dry enough to avoid ice formation at temperatures below +35°F (+2°C).

**Materials:**
**L64M/C**

Body: zinc

Bowl: aluminum

Yoke: zinc

Elastomers: nitrile and CR

**L68M/C**

Body: aluminum



Bowl: aluminum

Yoke: aluminum

Adjusting knob: acetal resin


Elastomers: nitrile and CR

**L64M/C Ordering information**

Model Oil-fog	Model Micro-fog	Port Size	Drain type	Bowl type	Weight lb (kg)
					
<b>L64C-NNP-QDN</b> ●		No yoke	1/4 turn manual	7 oz. metal with liquid level indicator	2.6 (0.94)
	<b>L64M-NNP-EDN</b> ●	No yoke	Closed bottom	7 oz. metal with liquid level indicator	2.6 (0.94)
	<b>L64M-NNP-QDN</b> ●	No yoke	1/4 turn manual	7 oz. metal with liquid level indicator	2.6 (0.94)

† Typical flow with 90 psig (6.3 bar) inlet pressure and a pressure drop of 7 psig (0.5 bar).

**L68M/C Ordering information**

Model Micro-fog	Port Size	Drain type	Bowl type	Weight lb (kg)
				
<b>L68M-NNP-QUN</b> ●	No yoke	1/4 turn manual	1 qt (1 liter) metal with liquid level indicator	2.6 (1.16)

† Typical flow with 90 psig (6.3 bar) inlet pressure and a pressure drop of 7 psig (0.5 bar).

● In stock

◆ Ships within one week

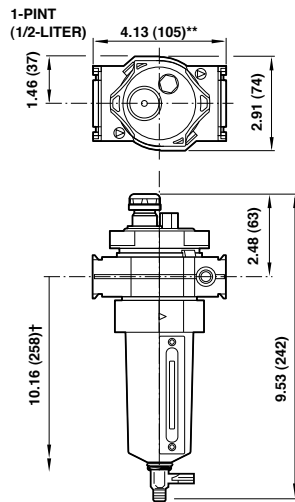


Accessories

Series	Size	Bracket kit	Single yoke
L64	1/4"	74504-50 ●	Y64A-2AA-N1N ●
	3/8"	74504-50 ●	Y64A-3AA-N1N ●
	1/2"	74504-50 ●	Y64A-4AA-N1N ●
L68	3/4"	18-001-979 ● 74504-50 ●	Y68A-6AN-N1N ●
	1"	18-001-979 ● 74504-50 ●	Y68A-8AN-N1N ●
	1-1/4"	- 74504-50 ●	Y68A-AAN-N1N ●
	1-1/2"	- 74504-50 ●	Y68A-BAN-N1N ●

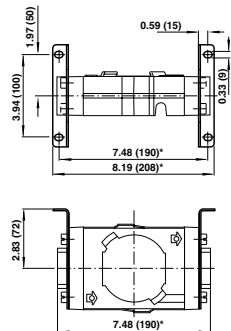
Optional 1 quart US (1 liter) bowl

L64



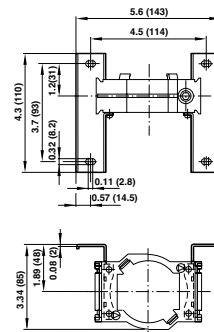
\*\*6.18" (157) for models with 3/4" ports.  
† Minimum clearance required to remove unit.

Mounting bracket (L68)

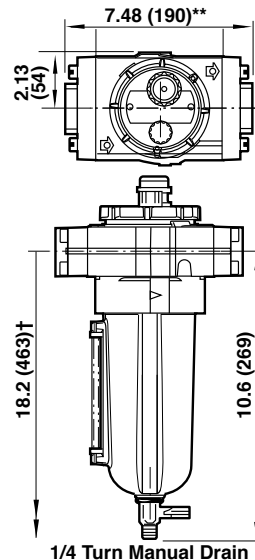


Dimensions in inches (mm)

Mounting bracket (L64)



L68



- In stock
- ◆ Ships within one week

**Compact design**
**Filter removes liquids and solid particles down to 5 µm**
**Push to lock adjusting knob**
**Micro-Fog lubricator provides air line lubrication to one or more air driven tools or other devices**
**Nearly constant oil density output with varying air flow**

**Technical data**
**Fluid:**

Compressed air

**Maximum pressure:**

150 psig (10 bar)

**Operating temperature\*:**

0°F to 125°F (-20°C to 50°C)

\* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C)

**Typical flow** at 100 psig (7 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a droop of 15 psig (1 bar) from set:

 1/8" ports: 10 scfm (5 dm<sup>3</sup>/s)

 1/4" ports: 14 scfm (7 dm<sup>3</sup>/s)

**Drain connection:**

1/8" male pipe

**Filter/Regulator**
**Particle removal:**

5 µm

**Gauge ports:**

1/8" PTF

**Lubricator**

 Start point (i.e., minimum flow required for lubricator operation): 0.5 scfm (0.24 dm<sup>3</sup>/s) at 90 psig (6.3 bar) inlet pressure

**Nominal bowl capacity:**

1 fluid ounce (31 ml)

**Materials:**

Bodies: Zinc

Filter/Regulator bonnet: Acetal

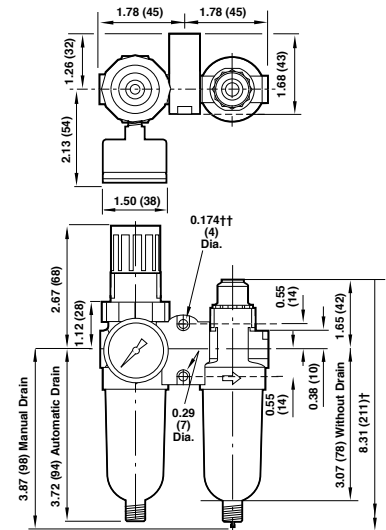
Filter/Regulator valve seat: Acetal

Bowls: Polycarbonate

Lubricator sight-feed dome: Transparent nylon









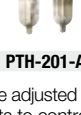
Filter element: Sintered polypropylene

Elastomers: Nitrile


 †Minimum distance required to remove bowl  
 †† Mounting holes

Dimensions in inches (mm)

**Models**

PTH Series Manual Drain Model No.	Auto Drain Model No.	Port size PTF	Gauge	Outlet pressure range psig	Neck mounting bracket	Sight feed dome	Filter/ regulator service kit	Lubricator service kit
		1/8"	included	5 to 100				
PTH-100-M1AA ●	PTH-100-A1AA ●	1/8"	included	5 to 100	18-025-003 ●	4055-50 ●	3820-12 ●	3795-03 ●
		1/4"	included	5 to 100	18-025-003 ●	4055-50 ●	3820-12 ●	3795-03 ●
PTH-200-M1AA ●	PTH-200-A1AA ●	1/4"	included	5 to 100	18-025-003 ●	4055-50 ●	3820-12 ●	3795-03 ●
		1/4"	not included	5 to 100	18-025-003 ●	4055-50 ●	3820-12 ●	3795-03 ●
PTH-201-M1AA ●	PTH-201-A1AA ●	1/4"	not included	5 to 100	18-025-003 ●	4055-50 ●	3820-12 ●	3795-03 ●

\* Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges

\*Filter/regulator service kit contains slip ring, diaphragm, valve seat with o-ring, valve, valve spring, element, element gasket, and bowl o-ring

\*\*Lubricator service kit contains sight-feed dome seal, cartridge o-ring, and bowl o-ring.

● In stock

◆ Ships within one week

Direct ported filters with high water removal efficiency

High flow miniature unit

Transparent bowl option for 360° visibility

**Technical data**

**Fluid:**

Compressed air

**Maximum pressure:**

Transparent bowl: 150 psig (10 bar)

Metal bowl: 250 psig (17 bar)

**Operating temperature:\***

Transparent bowl:

-30°F to 125°F (-34°C to 50°C)

Metal bowl:

-30°F to 175°F (-34°C to 80°C)

\*Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

**Particle removal:**

5 µm filter element

**Drain connection:**

1/8" male pipe thread

**Flow\*\***

**Model SCFM**

F07-100 19

F07-200 24

\*\* Typical flow with 90 psig inlet pressure, 5 psig pressure drop.

**Materials**

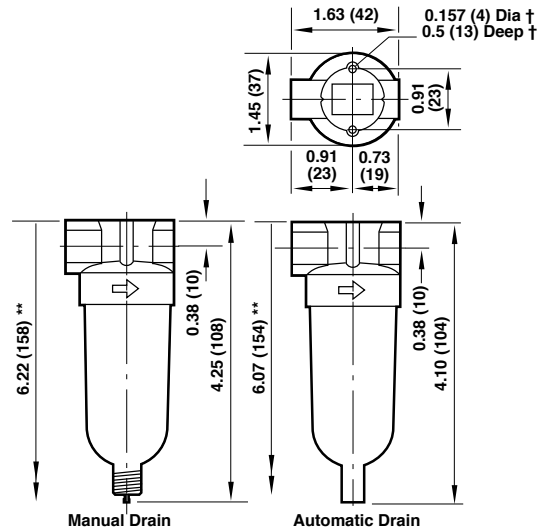
Body: zinc

Transparent bowl: Polycarbonate

Metal bowl: Zinc (without sight glass)











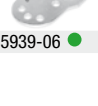
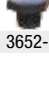
Element: sintered polypropylene

Elastomers: CR & nitrile



\*\* Minimum clearance required to remove bowl  
Dimensions in inches (mm)

**Models**

F07 Series Auto Drain Model No.	F07 Series Manual Drain Model No.	Port size PTF	Bowl type	Wall mounting bracket	Replacement 5 µm element kit
 F07-100-A1TA ●	 F07-100-M1TA ●	1/8"	Transparent	 5939-06 ●	 3652-17 ●
 F07-200-A1TA ●	 F07-200-M1TA ●	1/4"	Transparent	 5939-06 ●	 3652-17 ●
 F07-200-A1MA ●	 F07-200-M1MA ●	1/4"	Metal	 5939-06 ●	 3652-17 ●

- In stock
- ◆ Ships within one week

**Compact design**  
**High efficiency oil and particle removal**

**Technical data**

**Fluid:**  
Compressed air

**Maximum pressure:**  
Transparent bowl: 150 psig (10 bar)  
Metal bowl: 250 psig (17 bar)

**Operating temperature:\***  
Transparent bowl:  
-30°F to 125°F (-34°C to 50°C)  
Metal bowl: -30°F to 150°F (-34°C to 65°C)  
\* Air supply must be dry enough to avoid ice formation at temperatures below 2°C (35°F).

**Aerosol oil removal:**  
Down to 0.01 µm

**Maximum remaining oil content of air leaving the filter:**  
0.01ppm at 70°F (21°C) with an inlet oil concentration of 17 ppm.

**Nominal bowl size:**  
1 fluid ounce (31 ml)

**Drain connection:**  
1/8" male pipe thread

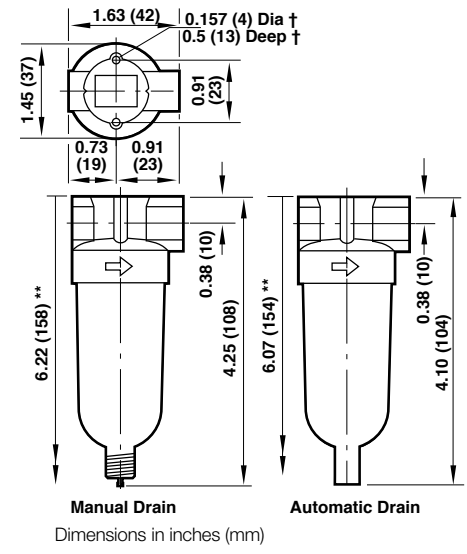
**Automatic drain operation:**  
Spitter type drain operates momentarily when a rapid change in air flow occurs or when the supply pressure is reduced.

**Flow\*\***

Model	SCFM
F39 100	6
F39 200	6.4

\*\* Typical flow at 90 psig inlet pressure to maintain stated oil removal performance.

**Materials**  
Body: Zinc  
Transparent bowl: Polycarbonate  
Metal bowl: Zinc  
Element: Synthetic fiber and polyurethane foam  
Elastomers: CR & nitrile



**Models**

F39 Autodrain Model No.	F39 Manual Drain Model No.	Port size PTF	Bowl type
F39-100-A0TA ●	F39-100-M0TA ●	1/8"	Transparent
F39-200-A0TA ●	F39-200-M0TA ●	1/4"	Transparent
F39-200-A0MA ●	-	1/4"	Metal

**Accessories**

Wall mounting bracket	Service kit**
5939-06 ●	F39-KITOC ●
5939-06 ●	F39-KITOC ●
5939-06 ●	F39-KITOC ●

\*\* Kit includes: Element, element O-ring, bowl O-ring

- In stock
- ◆ Ships within one week

**R07 General purpose**

Snap action knob locks pressure setting when pushed down

Standard relieving models allow reduction of outlet pressure even when the system is dead-ended

**R46 Non-repairable**

Wrench flats for easy installation

Relieving piston design allows reduction of downstream pressure when system is dead-ended

Choice of left to right or right to left flow

**Technical data**

**R07**  
**Fluid:** Compressed air  
**Maximum pressure:** 300 psig (20 bar)  
**Operating temperature:** -34°F to 150°F (-35°C to 65°C)\*

**Flow\*\***  

Model	SCFM
R07 100	14
R07 200	15

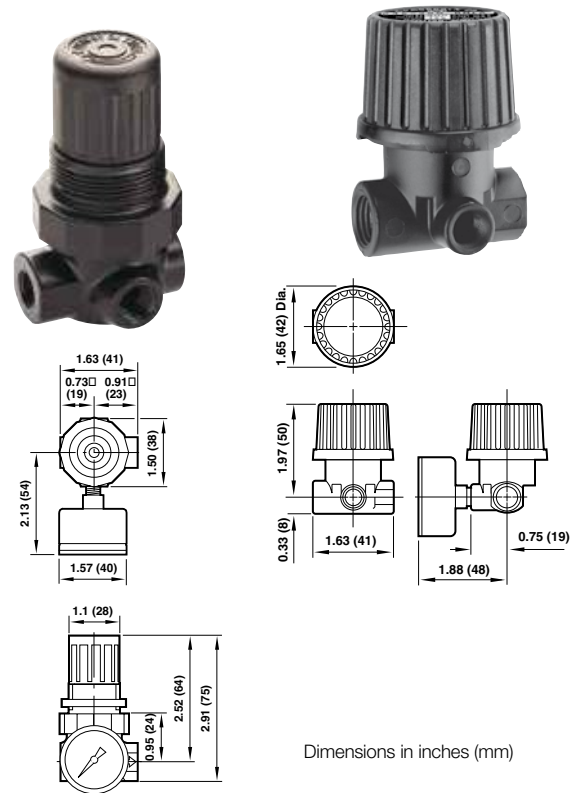
\* Air supply must be dry enough to avoid ice formation at temperatures below 2°C (35°F).  
 \*\* Typical flow with 150 psig inlet pressure, 90 psig set pressure and a 15 psig droop from set.

**R46**  
**Fluid:** Compressed air  
**Maximum pressure:** 250 psig (17 bar)  
**Operating temperature\*:** -30°F to 150°F (-34°C to 65°C)

**Flow\*\***  

Model	SCFM
R46	13

NOTE: Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.



Dimensions in inches (mm)

**Models**

R07 Series Model No.	Port size PTF	Outlet pressure adjustment range psig
R07-100-RGAA	1/8"	1 to 10
R07-100-RNAA	1/8"	1 to 10
R07-100-RGEA	1/8"	5 to 50
R07-100-RNEA	1/8"	5 to 50
R07-100-RGKA	1/8"	5 to 100
R07-100-RNKA	1/8"	5 to 100
R07-200-RGAA	1/4"	1 to 10
R07-200-RNAA	1/4"	1 to 10
R07-200-RGEA	1/4"	5 to 50
R07-200-RNEA	1/4"	5 to 50
R07-200-RGKA	1/4"	5 to 100
R07-200-RNKA	1/4"	5 to 100
R07-200-RGLA	1/4"	5 to 125
R07-200-RNLA	1/4"	5 to 125

**Accessories**

Neck mounting bracket with nut	Mounting nut only (plastic)	Mounting nut only (metal)	Gauge psig	Service kit**
18-025-003	2962-89	2962-04	Gauge included	3407-22
18-025-003	2962-89	2962-04	18-013-214	3407-22
18-025-003	2962-89	2962-04	Gauge included	3407-22
18-025-003	2962-89	2962-04	18-013-211	3407-22
18-025-003	2962-89	2962-04	Gauge included	3407-22
18-025-003	2962-89	2962-04	18-013-212	3407-22
18-025-003	2962-89	2962-04	Gauge included	3407-22
18-025-003	2962-89	2962-04	18-013-214	3407-22
18-025-003	2962-89	2962-04	Gauge included	3407-22
18-025-003	2962-89	2962-04	18-013-211	3407-22
18-025-003	2962-89	2962-04	Gauge included	3407-22
18-025-003	2962-89	2962-04	18-013-212	3407-22
18-025-003	2962-89	2962-04	Gauge included	3407-22

\*\* Kit includes: Slip ring, diaphragm, standard valve seat, O-ring, valve and spring

**Models**

R46 Series Model No.	Port size PTF	Outlet pressure adjustment range psig	Flow direction
R46-200-RNLA	1/4"	5 to 125	Left to Right
R46-202-RNLA	1/4"	5 to 125	Right to Left

**Accessories**

Gauge psig
0 to 160 psig
18-013-212
18-013-212

- In stock
- ◆ Ships within one week

**Filter-regulators for all general purpose pneumatic applications**

**High performance design provides high flow with minimum pressure drop**

**Non-rising adjusting knob has snap-action lock**

**Transparent bowl option for 360° visibility**

### Technical data

#### Fluid:

Compressed air

#### Maximum pressure:

Transparent bowl:

150 psig (10 bar)

Metal bowl: 250 psig (17 bar)

#### Operating temperature\*:

Transparent bowl: -30°F to 125°F (-34°C to 50°C)

Metal bowl: -30°F to 150°F (-34°C to 65°C)

\* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C)

#### Particle removal

5 µm

#### Flow\*\*

**Model**                      **SCFM**

B07 10                        13

B07 20                        14

\*\* Typical flow with 100 psig inlet pressure, 90 psig set pressure and a 15 psig droop from set.

NOTE: Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

#### Materials

Body: zinc

Bonnet: acetal

Valve seat: acetal

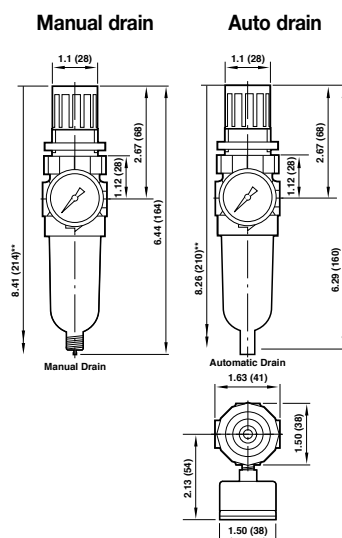
Transparent bowl:

polycarbonate

Metal bowl: zinc

















Element: sintered polypropylene

Elastomers: nitrile



\*\* Minimum clearance required to remove bowl  
Dimensions in inches (mm)

### Models

B07		Port size	Bowl	Accessories					
Auto Drain	Manual Drain	PTF	type	Neck mounting bracket with nut	Mounting nut only (plastic)	Mounting nut only (metal)	Gauge 0 to 160 psig	Replacement element 5 µm kit	Service kit**
Model No.	Model No.								
									
B07-101-A1KA ●	B07-101-M1KA ●	1/8"	Transparent	18-025-003 ●	2962-89 ●	2962-04 ●	18-013-212 ●	3652-17 ●	3820-12 ●
B07-102-A1KA ●	B07-102-M1KA ●	1/8"	Transparent	18-025-003 ●	2962-89 ●	2962-04 ●	Gauge included	3652-17 ●	3820-12 ●
B07-201-A1KA ●	B07-201-M1KA ●	1/4"	Transparent	18-025-003 ●	2962-89 ●	2962-04 ●	18-013-212 ●	3652-17 ●	3820-12 ●
B07-202-A1KA ●	B07-202-M1KA ●	1/4"	Transparent	18-025-003 ●	2962-89 ●	2962-04 ●	Gauge included	3652-17 ●	3820-12 ●
									
B07-233-A1KA ●	B07-233-M1KA ●	1/4"	Metal	18-025-003 ●	2962-89 ●	2962-04 ●	18-013-212 ●	3652-17 ●	3820-12 ●
B07-234-A1KA ●	B07-234-M1KA ●	1/4"	Metal	18-025-003 ●	2962-89 ●	2962-04 ●	Gauge included	3652-17 ●	3820-12 ●

\*\* Service kit contains slip ring, diaphragm, valve seat with o-ring, valve, valve spring, element, element gasket, and bowl o-ring

● In stock

◆ Ships within one week

**Micro-fog lubricators provide a fine mist for most general purpose pneumatic applications**  
**Transparent bowl for 360° visibility**

**Technical data**

**Fluid:**

Compressed air  
Maximum pressure  
Transparent bowl:  
150 psig (10 bar)  
Metal bowl: 250 psig (17 bar)  
**Operating temperature\***  
Transparent bowl: 0°F to 125°F (-20°C to 50°C)  
Metal bowl: 0°F to 175°F (-20°C to 80°C)

\* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C)

**Nominal bowl size:**

1 fluid ounce (31 ml)  
Drain connection:  
Will fit 1/8-27 and 1/8-28 pipe thread

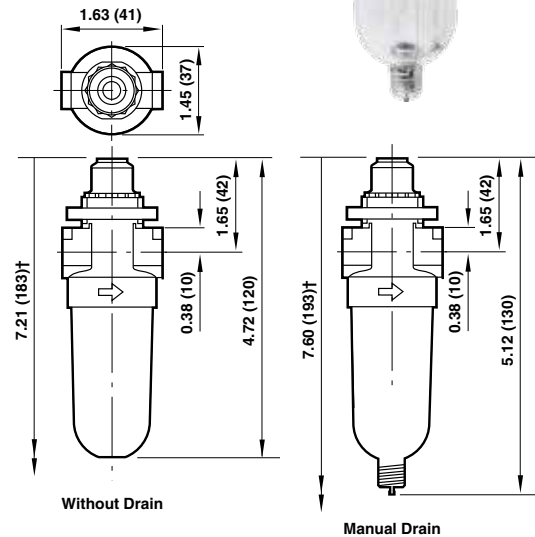
**Flow\*\***

Model	SCFM
L07 100	10
L07 200	14

\*\* Approximate flow at 90 psig inlet pressure and 7 psig pressure drop. Start point (i.e. minimum flow required for lubricator operation): 0.5 scfm (0.24 dm<sup>3</sup>/s) at 90 psig (6.3 bar) inlet pressure














**Materials**

Body: Zinc  
Transparent bowl: Polycarbonate  
Metal bowl: Zinc  
Sight-feed dome: Transparent nylon  
Elastomers: CR & nitrile



†Minimum clearance required to remove bowl  
Dimensions in inches (mm)

**Models**

L07 No Drain Model No.	L07 Manual Drain Model No.	Port size PTF	Bowl type	Neck mounting bracket with nut	Mounting nut only (plastic)	Mounting nut only (metal)	Sight feed dome	Service kit**
		1/8"	Transparent					
L07-100-MPQA ●	L07-100-MPAA ●	1/8"	Transparent	18-025-003 ●	2962-89 ●	2962-04 ●	4055-50 ●	3795-03 ●
L07-200-MPQA ●	L07-200-MPAA ●	1/4"	Transparent	18-025-003 ●	2962-89 ●	2962-04 ●	4055-50 ●	3795-03 ●
-		1/4"	Metal					
-	L07-200-MPMA ●	1/4"	Metal	18-025-003 ●	2962-89 ●	2962-04 ●	4055-50 ●	3795-03 ●

\*\* Kit includes: O-ring, seal, bowl O-ring

- In stock
- ◆ Ships within one week

## Protect compressed air systems from over-pressurization

IMI Norgren pressure relief valves comply with category O(S.E.P.) and category 1 of the Pressure Equipment Directive 97/23/EC.

### Technical data

**Fluid:**

Compressed air

**Maximum pressure:**

300 psig (21 bar)

**Operating temperature:**

-30°F to 150°F (-34°C to 65°C) \*

\*Air supply must be dry enough to avoid ice formation

at temperatures below 35°F (2°C).

NOTE: Relief valves can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

**Gauge ports:**

1/8" PTF

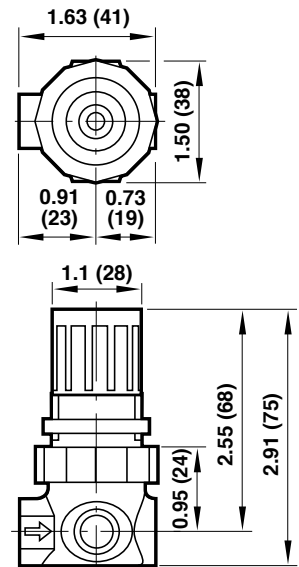
**Materials:**

Body: Zinc

Bonnet: Acetal





Valve seat: Acetal

Elastomers: Nitrile



Dimensions in inches (mm)

### Models

V07 Series Model No.	Port size PTF	Pressure adjustment range (psig)	Neck mounting bracket with nut	Silencer	Gauge 0 to 160 psig	Service kit*
	1/8"	5 to 100				V07-KIT
<b>V07-100-NNKA</b> ●	1/8"	5 to 100	18-025-003 ●	MB001A ●	18-013-212 ●	V07-KIT ●
<b>V07-200-NEEA</b> ●	1/4"	5 to 50	18-023-003 ●	MB001A ●	18-013-212 ●	V07-KIT ●
<b>V07-200-NNKA</b> ●	1/4"	5 to 100	18-025-003 ●	MB001A ●	18-013-212 ●	V07-KIT ●

\* Kit includes: Diaphragm, valve seat, O-ring

● In stock

◆ Ships within one week



**40 µm filter element**

**Balanced regulator valve minimizes effect of changes in inlet pressure on outlet pressure**

**Low torque, non-rising regulator pressure adjusting knob**

**All around (360°) visibility of the micro-fog lubricator sight-feed dome simplifies installation and adjustment**

**Micro-fog lubricator flow sensor provides a nearly constant oil/air ratio over a wide range of air flows**



**Technical data**

**Fluid:**

Compressed air

**Maximum pressure:**

250 psig (17 bar)

**Operating temperature\*:**

0°F to 175°F (-20°C to 80°C)

\* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

**Start point (minimum flow required for lubricator operation):**

8 scfm (3.8 dm<sup>3</sup>/s) at 90 psig (6.3 bar) inlet pressure

**Regulator gauge ports:**

1/4" PTF

**Nominal bowl size:**

1 quart US (1 liter)

**Manual drain connection:**

Will fit 1/8-27 and 1/8-28 pipe thread

**Automatic drain connection:**

Will fit 1/8-27 and 1/8-28 pipe thread.

**Materials**

Bodies, bowls, regulator bonnet:

Aluminum

Bowl sight glass: Pyrex

Filter element: Sintered bronze

Regulator bottom plug: Acetal

Regulator valve: Aluminum and nylon

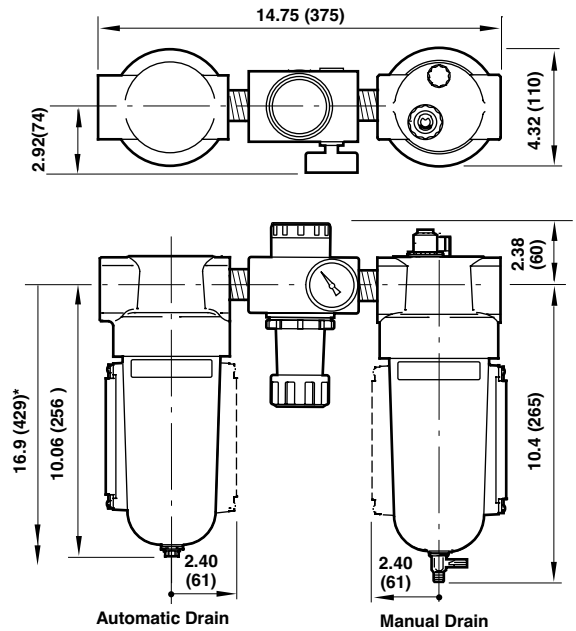
Lubricator sight-feed dome:

Transparent nylon

Elastomers: CR and nitrile

NOTE: Outlet pressure can be adjusted to pressures in excess of, and less than, those specified.







Do not use these units to control pressures outside of the specified ranges.



\* Minimum clearance required to remove bowl.

Dimensions in inches (mm)

**Models**

P8A Series Auto Drain Model No.	P8A Series Manual Drain Model No.	Port size PTF	Outlet pressure range psig	Replacement element 40 µm	Filter service kit	Regulator service kit	Lubricator service kit
 P8A-860-A3DA ●	 P8A-860-M3DA ●	1"	5 to 125	 5311-03 ●	 5578-05 ●	 5578-02 ●	 5771-02 ●

- In stock
- ◆ Ships within one week

**Protects air operated devices by removing liquid and solid contaminants**

### Technical data

#### Fluid:

Compressed air

#### Maximum pressure:

250 psig (17 bar)

#### Operating temperature:\*

-30°F to 175°F (-34°C to 80°C)

\*Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C)

#### Particle removal:

5 or 40 µm filter element

#### Nominal bowl size:

1 quart (1 liter)

#### Manual drain connection:

Will fit 1/8-27 and 1/8-28 female pipe thread.

#### Automatic drain connection:

Will fit 1/8-27 and 1/8-28 female pipe thread.

#### Flow\*\*

Model	SCFM
F17-600	325
F17-800	425
F17-A00	425
F17-B00	425

\*\* Typical flow with a 40 µm element at 90 psig inlet pressure and 5 psig pressure drop.

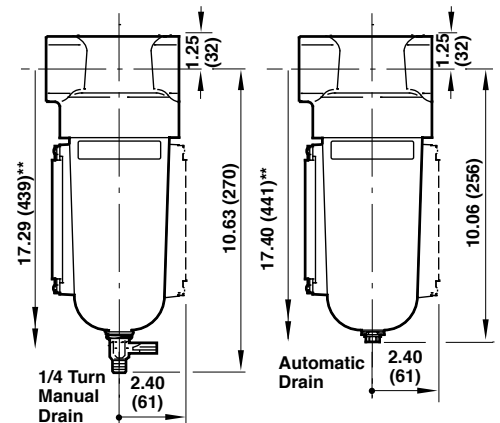
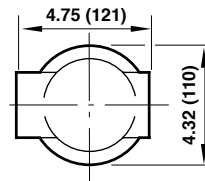
#### Materials

Body: Aluminum

Bowl: Aluminum



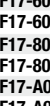
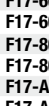
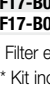
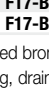




Bowl sight glass: Pyrex

Elastomers: CR and nitrile



Dimensions in inches (mm)




### Models

F17 Series Auto Drain Model No.	F17 Series Manual Drain Model No.	Port size PTF	Element*
		3/4"	5 µm
		3/4"	40 µm
		1"	5 µm
		1"	40 µm
		1-1/4"	5 µm
		1-1/4"	40 µm
		1-1/2"	5 µm
		1-1/2"	40 µm

\* Filter elements are sintered bronze

\*\* Kit includes: Bowl O-ring, drain gasket, element gasket

### Accessories

Wall mounting bracket	Replacement element 40 µm	Service kit**
		
6212-50	5311-01	5578-05
6212-50	5311-03	5578-05
6212-50	5311-01	5578-05
6212-50	5311-03	5578-05
6212-51	5311-01	5578-05
6212-51	5311-03	5578-05
6212-51	5311-01	5578-05
6212-51	5311-03	5578-05

● In stock

◆ Ships within one week

**High efficiency oil and particle removal**  
**Standard service indicator turns from green to red when the filter element needs to be replaced**

NOTE: Install an F17 filter with a 5 µm filter element upstream of the F46 filter for maximum service life.

**Technical data**

**Fluid:**

Compressed air

**Maximum pressure:**

250 psig (17 bar)

**Operating temperature:\***

-30°F to 150°F (-34°C to 65°C)

\* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C)

**Particle removal:**

Down to 0.01 µm

**Maximum remaining oil content in outlet air:**

0.01ppm at 70°F (20°C) with an inlet oil concentration of 12 ppm.

**Nominal bowl size:**

1 quart US (1 liter)

**Automatic drain connection:**

Will fit 1/8-27 and 1/8-28 male pipe thread. - Flexible tube with 3/16" (5mm) minimum I.D. can be connected to the automatic drain. Drain may fail to operate if the tube I.D. is less than 3/16" (5mm). Avoid restrictions in the tube.

**Flow\*\***

Model	SCFM
F46-601	90
F46-801	125
F46-A01	125

\*\* Typical flow for oil-saturated element at 90 psig inlet pressure to maintain stated oil removal performance.

**Materials**

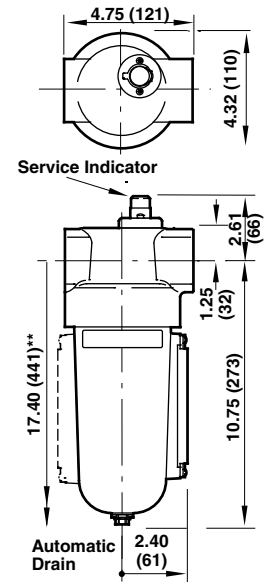
Body: Aluminum

Bowl: Aluminum

Bowl sight glass: Pyrex

Elastomers: CR and nitrile

Filter element: Synthetic fiber and polyurethane foam



**Models**

F46 Series Auto Drain Model No.	Port size PTF
---------------------------------	---------------



F46-601-A0DA	3/4"
F46-801-A0DA	1"
F46-A01-A0DA	1-1/4"

**Accessories**

Wall mounting bracket	Sight feed dome	Service kit*
-----------------------	-----------------	--------------



6212-50	5797-50	5351-04
6212-50	5797-50	5351-04
6212-51	5797-50	5351-04

\* Kit includes: Coalescing element, element O-ring, bowl O-ring, drain gasket

- In stock
- ◆ Ships within one week

- Accurate and quick response to changes in flow demand and line pressure variations
- Balanced valve minimizes effect of changes in inlet pressure on outlet pressure
- Standard relieving models allow reduction of outlet pressure even when the system is dead-ended
- Full flow gauge ports
- Low torque, non-rising adjusting knob
- Integral locking device on knob adjustment



**Technical data**

**Fluid:**

Compressed air

**Maximum pressure:**

300 psig (20 bar)

**Operating temperature:**

-30°F to 175°F (-34°C to 80°C)\*

\* Air supply must be dry enough to avoid ice formation at temperatures 35°F (2°C).

**Gauge ports:**

1/4" PTF with PTF main ports

**Materials**

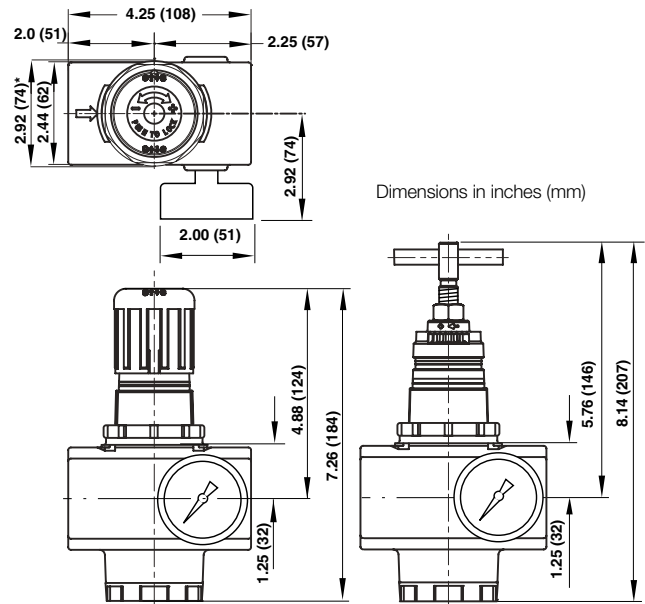
Body: Aluminum

Bonnet: Aluminum

Bottom plug: Acetal

Valve: Aluminum and nylon

Elastomers: Nitrile



Dimensions in inches (mm)

Panel mounting hole diameter: 2.28" (58 mm)  
Panel thickness: 0.06" to 0.16" (2 to 4 mm)

\*OD of panel mount nut. Nut not included

**Models**

R17 Series Model No.	Knob adjustment	T-Handle adjustment	Port size PTF	Outlet pressure adjustment range psig	
R17-600-RGLA	●	R17-601-RGLA	●	3/4"	5 to 125
R17-600-RNLA	●	R17-601-RNLA	●	3/4"	5 to 125
R17-800-RGLA	●	R17-801-RGLA	●	1"	5 to 125
R17-800-RNLA	●	R17-801-RNLA	●	1"	5 to 125
R17-800-RNSA	●	-	-	1"	10 to 250
R17-800-RGSA	●	R17-801-RGSA	●	1"	10 to 250
R17-A00-RNLA	●	-	-	1-1/4"	5 to 125
R17-A00-RGLA	●	R17-A01-RGLA	●	1-1/4"	5 to 125
R17-A00-RNSA	●	-	-	1-1/4"	10 to 250
R17-B00-RNLA	●	-	-	1-1/2"	5 to 125
R17-B00-RGLA	●	R17-B01-RGLA	●	1-1/2"	5 to 125
R17-B00-RNSA	●	-	-	1-1/2"	10 to 250
R17-B00-RGSA	●	R17-B01-RGSA	●	1-1/2"	10 to 250

**Accessories**

Neck mount bracket with nut	Panel mount nut	Tamper evident cover and seal wire	Gauge 0 to 160 psig	Service Kit*
5570-04 ●	5226-97 ●	4355-51 ●	Gauge included	5578-02 ●
5570-04 ●	5226-97 ●	4355-51 ●	18-013-209 ●	5578-02 ●
5570-04 ●	5226-97 ●	4355-51 ●	Gauge included	5578-02 ●
5570-04 ●	5226-97 ●	4355-51 ●	18-013-209 ●	5578-02 ●
5570-04 ●	5226-97 ●	4355-51 ●	18-013-210 ●	5578-02 ●
5570-04 ●	5226-97 ●	4355-51 ●	Gauge included	5578-02 ●
5570-04 ●	5226-97 ●	4355-51 ●	18-013-209 ●	5578-02 ●
5570-04 ●	5226-97 ●	4355-51 ●	Gauge included	5578-02 ●
5570-04 ●	5226-97 ●	4355-51 ●	18-013-210 ●	5578-02 ●
5570-04 ●	5226-97 ●	4355-51 ●	Gauge included	5578-02 ●
5570-04 ●	5226-97 ●	4355-51 ●	18-013-209 ●	5578-02 ●
5570-04 ●	5226-97 ●	4355-51 ●	Gauge included	5578-02 ●
5570-04 ●	5226-97 ●	4355-51 ●	18-013-210 ●	5578-02 ●
5570-04 ●	5226-97 ●	4355-51 ●	Gauge included	5578-02 ●

\* Kit includes: Diaphragm, O-rings, valve, valve spring

- In stock
- ◆ Ships within one week

**Screw-on bowl reduces maintenance time**

**360° visible dome**

**Sight glass to view lubricant level**

**Mist or oil droplet lubricating options**

**Technical data**

**Fluid:**

Compressed air

**Maximum pressure:**

250 psig (17 bar)

**Operating temperature\*:**

0°F to 175°F (-20°C to 80°C)

\* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

**Start point (minimum flow required for lubricator operation):**

8 scfm (3.8 dm<sup>3</sup>/s) at 90 psig (6.3 bar) inlet pressure

**Nominal reservoir size**

1 quart US (1 liter)

**Manual drain connection:**

Fits 1/8-27 and 1/8-28 pipe thread

**Flow\*\***

**Model SCFM**

L17-600 160

L17-800 275

L17-A00 275

L17-B00 275

\*\* Typical flow with 90 psig inlet pressure, and a pressure drop of 5 psig.

NOTE: Models listed must not be located downstream of frequently cycling directional control valves.

**Materials**

Body: Aluminum

Reservoir: Aluminum

Reservoir sight glass: Pyrex

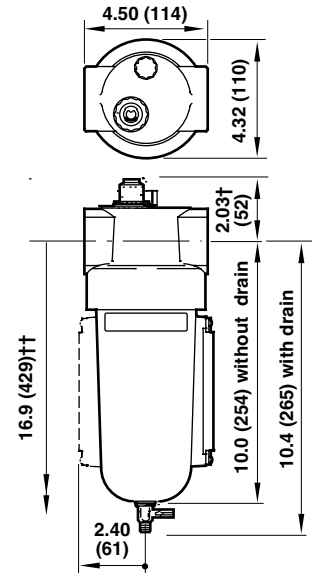
Sight-feed dome

Standard: Transparent nylon

Elastomers: CR and nitrile




L17 Micro-Fog







Dimensions in inches (mm)

**Models**

L17 Series Model No.	Port size PTF	Lubrication type
		
L17-600-MPDA ●	3/4"	Micro-Fog
L17-600-OPDA ●	3/4"	Oil Fog
L17-800-MPDA ●	1"	Micro-Fog
L17-800-OPDA ●	1"	Oil Fog
L17-A00-MPDA ●	1-1/4"	Micro-Fog
L17-A00-OPDA ●	1-1/4"	Oil Fog
L17-B00-MPDA ●	1-1/2"	Micro-Fog
L17-B00-OPDA ●	1-1/2"	Oil Fog

**Accessories**

Wall mounting bracket	Sight feed dome*	Fill plug	Service kit**
			
6212-50 ●	4055-50 ●	5301-51 ●	5771-02 ●
6212-50 ●	4055-51 ●	5301-51 ●	5771-02 ●
6212-50 ●	4055-50 ●	5301-51 ●	5771-02 ●
6212-50 ●	4055-51 ●	5301-51 ●	5771-02 ●
6212-51 ●	4055-50 ●	5301-51 ●	5771-02 ●
6212-51 ●	4055-51 ●	5301-51 ●	5771-02 ●
6212-51 ●	4055-50 ●	5301-51 ●	5771-02 ●
6212-51 ●	4055-51 ●	5301-51 ●	5771-02 ●

\*Micro-fog sight dome shown \*\* Kit includes: O-rings, seals, gaskets

- In stock
- ◆ Ships within one week

**Direct ported filter with high water removal efficiency**  
**High flow with minimal pressure drop**  
**Highly visible prismatic liquid level indicator lens**

### Technical data

#### Fluid:

Compressed air

#### Maximum pressure:

250 psig (17 bar)

#### Operating temperature\*:

-30°F to 175°F (-34°C to 80°C)

\* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

#### Particle removal:

40 µm filter element

#### Flow\*\*

**Model**                      **SCFM**

F18                              1400

\*\* Typical flow with a 40 µm element at 90 psig inlet pressure and 5 psig pressure drop.

#### Materials

Body: Aluminum

Intermediate body: Aluminum

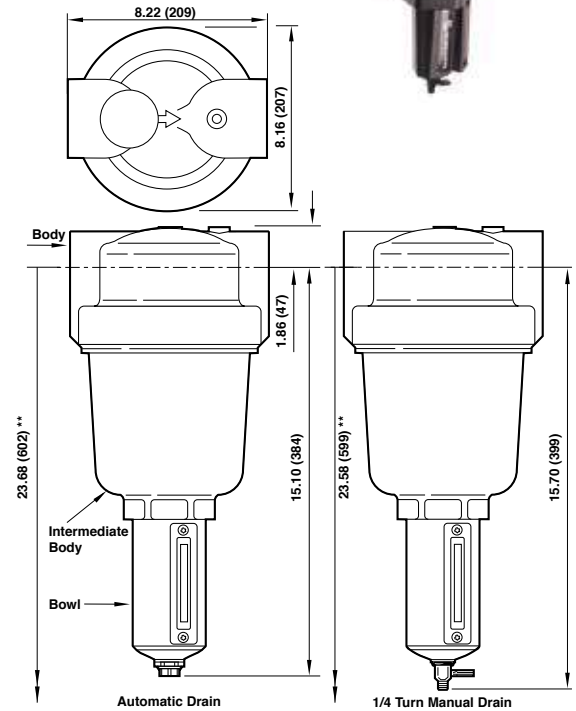
Bowl: Aluminum

Metal bowl liquid level indicator:

Transparent nylon





Filter element: Sintered bronze

Elastomers: CR and nitrile



\*\* Minimum clearance required to remove bowl  
 Dimensions in inches (mm)

### Models

F18 Series Auto Drain Model No.	F18 Series Manual Drain Model No.	Port size PTF	Element	Service kit*
		2"		
F18-C00-A1DA ●	—	2"	5882-11 (5 µm) ●	5945-50 ●
F18-B00-A3DA ●	F18-B00-M3DA ●	1-1/2"	5882-13 (40 µm) ●	5945-50 ●
F18-C00-A3DA ●	F18-C00-M3DA ●	2"	5882-13 (40 µm) ●	5945-50 ●

\* Kit includes: Seat and seal

- In stock
- ◆ Ships within one week

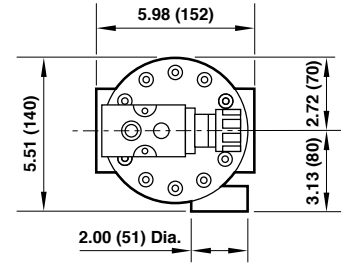
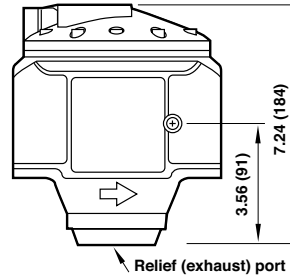
The R18 remote pilot operated regulator can be installed at any point in the compressed air system – pilot regulator can be installed in the most convenient location

The R18 with conventional integral pilot enables easy pressure adjustment at the regulator

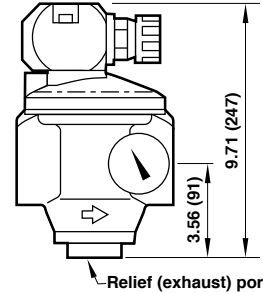
Balanced valve minimizes effect of changes in inlet pressure on outlet pressure

Constant bleed feature in pilot regulator provides quick response and minimum dead-band

Exceptionally high relief flow



R18 with R40 Conventional Integral Pilot Regulator



Dimensions in inches (mm)

**Technical data**

**Fluid:**

Compressed air

**Inlet pressure range:**

10 to 450 psig (0.7 to 31 bar)

**Operating temperature:**

0°F to 175°F (-34°C to 80°C)

**Flow\*\***

**Model SCFM**

R18 2000

\*\* Typical flow with 100 psig inlet pressure, 90 psig set pressure and a 15 psig droop from set.




NOTE: Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

**Feedback Pilot Regulator Warning**





The feedback line must sense the pilot operated regulator outlet pressure and must be connected before turning on the air supply. If the feedback line is not connected, the pilot operated regulator outlet pressure will rapidly increase to the inlet pressure when the adjusting knob on the pilot regulator is turned clockwise.

**NOTE:** Do not use the R41 feedback pilot regulator to control outlet pressures at or less than 100 psig (7 bar). Use the 11-104 feedback pilot regulator at those pressures. Feedback pilots are designed for applications that require superior pressure regulation under changing flow conditions where changes in flow demand are not sudden or cyclic.

**Models**

R18 Series Remote Pilot Model No.	Pilot port size PTF	Adjustment method	Operation	Gauge 0 to 160 psig	Service kit*
	1-1/2"	Remote Pilot	Relieving		
R18-B00-RNXA ●	1-1/2"	Remote Pilot	Relieving	18-013-209 ●	5945-40 ●
R18-C00-RNXA ●	2"	Remote Pilot	Relieving	18-013-209 ●	5945-40 ●

**Accessories**

R18 Series Integral Pilot Model No. Without gauge	Model No. With gauge	Pilot port size PTF	Outlet pressure PSIG	Adjustment method	Operation	Gauge 0 to 160 psig	Replacement Pilot Regulator	Service kit*
	R18-B05-RGLA ●	1-1/2"	5 to 125	Integral Pilot	Relieving			
R18-B05-RNLA ●	R18-B05-RGLA ●	1-1/2"	5 to 125	Integral Pilot	Relieving	18-013-209 ●	R40-205-BNLA ●	5945-40 ●
R18-C05-RNLA ●	R18-C05-RGLA ●	2"	5 to 125	Integral Pilot	Relieving	18-013-209 ●	R40-205-BNLA ●	5945-40 ●

\* Kit includes: Screen, and all O-rings

- In stock
- ◆ Ships within one week

**Exceptionally high flow and relief flow characteristics**  
**Easy to adjust even at high output pressures**  
**Balanced valve minimizes effect of variations in inlet pressure on outlet pressure**  
**Panel mounted facility**

**Technical data**

**Fluid:** Compressed air  
**Maximum inlet pressure:** 300 psig (20 bar)\*  
\*For best performance, inlet pressure should be at least 10 psig (0.7 bar) greater than the desired regulated pressure, but must not exceed the specified maximum.  
**Operating temperature:** 0°F to 175°F (-20°C to 80°C)\*\*  
\*\* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).  
**Maximum bleed rate at 50 psig (3.5 bar) outlet pressure:** 0.031 scfm (0.016 dm<sup>3</sup>/s) †  
†Maximum bleed rate occurs under dead-end (no flow) conditions.

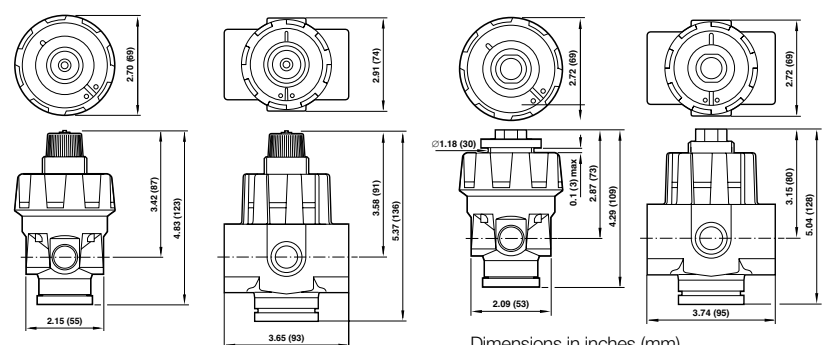
**Flow††**  
**Model**                      **SCFM**  
 R24-400                      200  
 R24-A00                      700  
†† Typical flow with 150 psig inlet pressure, 90 psig set pressure and 15 psig droop from set.

**Materials**  
 Body, top cap: Zinc  
 Main valve, adjusting screw: Brass  
 Pilot valve, relief valve: Acetal  
 Elastomers: Nitrile  
 Bottom Plug: Acetal



Manual

Air Pilot



Dimensions in inches (mm)

**Feedback Pilot Regulator Warning**  
 The feedback line must sense the pilot operated regulator outlet pressure and must be connected before turning on the air supply. If the feedback line is not connected, the pilot operated regulator outlet pressure will rapidly increase to the inlet pressure when the adjusting knob on the pilot regulator is turned clockwise.

**Models**

R24 Pilot operated Series Model No.	Port size PTF	Outlet pressure psig	Operation	Adjustment
R24-201-RNXX ●	1/4"	–	Relieving	Air Pilot
R24-301-RNXX ●	3/8"	–	Relieving	Air Pilot
R24-401-RNXX ●	1/2"	–	Relieving	Air Pilot
R24-601-RNXX ●	3/4"	–	Relieving	Air Pilot
R24-801-RNXX ●	1"	–	Relieving	Air Pilot
R24-A01-RNXX ●	1-1/4"	–	Relieving	Air Pilot

**Accessories**

Neck mount bracket	Gauge adapter	Gauge 0 to 160 psig	Service kit*
18-999-412 ●	NA	18-013-209 ●	5952-54 ●
18-999-412 ●	5950-01 ◆	18-013-209 ●	5952-54 ●
18-999-412 ●	2339-04 ●	18-013-209 ●	5952-54 ●
18-999-412 ●	2339-04 ●	18-013-209 ●	5952-55 ●
18-999-412 ●	2339-04 ●	18-013-209 ●	5952-55 ●
18-999-412 ●	2339-04 ●	18-013-209 ●	5952-55 ●

R24 Series Model No.	Port size PTF	Outlet pressure psig	Operation	Adjustment
R24-200-RNLA ●	1/4"	10 to 125	Relieving	Manual - Knob
R24-300-RNLA ●	3/8"	10 to 125	Relieving	Manual - Knob
R24-400-RNLA ●	1/2"	10 to 125	Relieving	Manual - Knob
R24-600-RNLA ●	3/4"	10 to 125	Relieving	Manual - Knob
R24-800-RNLA ●	1"	10 to 125	Relieving	Manual - Knob
R24-A00-RNLA ●	1-1/4"	10 to 125	Relieving	Manual - Knob

Neck mount bracket	Gauge adapter	Gauge 0 to 160 psig	Service kit*
18-999-412 ●	NA	18-013-209 ●	5292-52 ●
18-999-412 ●	5950-01 ◆	18-013-209 ●	5292-52 ●
18-999-412 ●	2339-04 ●	18-013-209 ●	5292-52 ●
18-999-412 ●	2339-04 ●	18-013-209 ●	5292-53 ●
18-999-412 ●	2339-04 ●	18-013-209 ●	5292-53 ●
18-999-412 ●	2339-04 ●	18-013-209 ●	5292-53 ●

\* Kit includes: Seals, main valve, spring

- In stock
- ◆ Ships within one week



**Large diaphragm provides accurate and quick response to changing flow demands and line pressure**

**Floating valve pin provides positive valve seating**

**Balanced valve minimizes effect of variations in inlet pressure on outlet pressure**

**Standard relieving models allow reduction of downstream pressure when the system is dead-ended**



**Technical data**

**Fluid:**

Compressed air

**Maximum inlet pressure:**  
400 psig (28 bar)

**Operating temperature\*:**  
-30°F to 175°F (-34°C to 80°C)

\*Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C)

**Gauge ports**

1/8" PTF

**Flow\*\***

Model	SCFM
11-002-013	60
11-002-019	60
11-002-037	60
11-002-043	60
11-002-061	200
11-002-067	200

\*\*Typical flow with 150 psig (10 bar) inlet pressure, 90 psig set pressure and 15 psig droop from set.

NOTE: Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

**Materials**

Body: Zinc

Bonnet: Aluminum

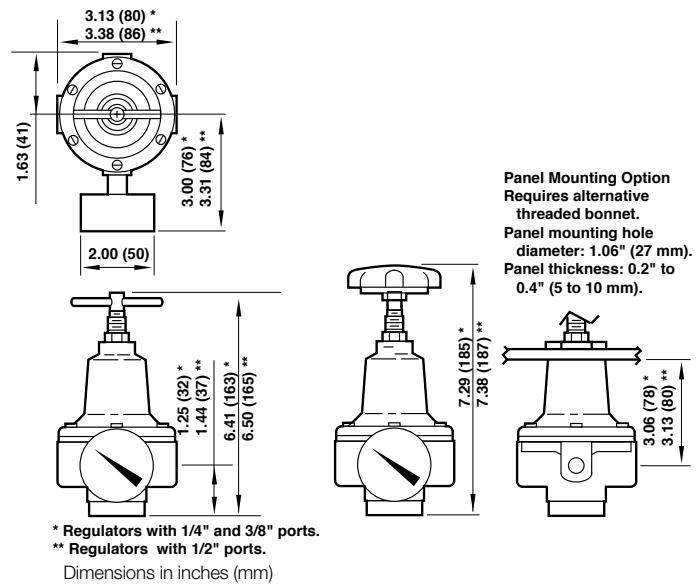
Valve: Brass and nitrile

Elastomers: Nitrile

Bottom plug

1/4" and 3/8" Ports: Brass

1/2" ports: Glass filled nylon



**Models**

11-002 Model No.	11-002 Model No.: Threaded bonnet for panel mounting, and hand wheel adjustment	Port Size PTF	Operation	Outlet pressure adjustment range psig
11-002-013	11-002-013-2A	1/4"	Relieving	5 to 125
11-002-019	-	1/4"	Relieving	5 to 125
11-002-037	11-002-037-2A	3/8"	Relieving	5 to 125
11-002-043	-	3/8"	Relieving	5 to 125
11-002-061	11-002-061-2A	1/2"	Relieving	5 to 125
11-002-067	-	1/2"	Relieving	5 to 125

**Accessories**

Gauge 0 to 160 psig	Service Kit*
18-013-212	529-03
Gauge included	529-03
18-013-212	529-03
Gauge included	529-03
18-013-212	535-03
Gauge included	535-03

\* Kit includes: Diaphragm, valve, valve spring, O-rings

- In stock
- ◆ Ships within one week

Can be installed at any point in the compressed air system – pilot regulator can be installed in the most convenient location

Can be used with conventional or feedback pilot regulator

Feedback pilot regulator senses downstream pressure and automatically adjusts pilot operated regulator outlet pressure

**Technical data**

**Fluid:**

Compressed air

**Inlet pressure range:\***

10 to 400 psig (0.7 to 27.6 bar)

\*For best performance, inlet pressure should be at least 10 psig (0.7 bar) greater than the desired regulated pressure, but must not exceed the specified maximum.

**Operating temperature:**

0°F to 175°F (-20°C to 80°C)\*\*

\*\*Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

**Feedback Pilot Regulator Warning**

The feedback line must sense the pilot operated regulator outlet pressure and must be connected before turning on the air supply. If the feedback line is not connected, the pilot operated regulator outlet pressure will rapidly increase to the inlet pressure when the adjusting knob on the pilot regulator is turned clockwise.

**Flow†**

**Model**

**SCFM**

11-008-130	70
11-008-009	110
11-008-110	180
11-042-003	120
11-042-007	300
11-042-008	300
11-042-009	300

**Materials**

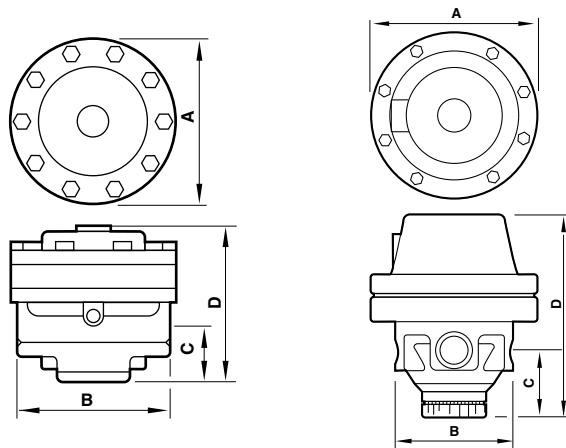
Body: Zinc  
Bonnet: Aluminum  
Valve: Brass  
Elastomers: Nitrile



11-008



11-042


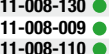
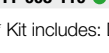


**Dimensions (inches)**

Port Size	A	B	C	D
1/2"	3.34	3.38	1.50	3.30
3/4", 1"	4.91	4.63	1.69	4.36




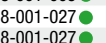

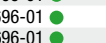
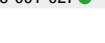

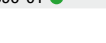
Port Size	A	B	C	D
1/4", 3/8", 1/2"	4.16	2.71	1.48	5.07
3/4", 1", 1-1/4"	4.16	3.65	1.86	5.97

**Models**


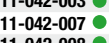
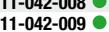
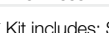
11-008 Series Constant bleed Model No.	Port size PTF	Operation
 11-008-130	1/2"	Relieving
 11-008-009	3/4"	Relieving
 11-008-110	1"	Relieving

\* Kit includes: Diaphragm, valve, O-rings

**Accessories**













Wall mounting bracket	Gauge 0 to 160 psig	Service kit*
 18-001-003	 18-013-212	 695-01
 18-001-027	 18-013-212	 696-01
 18-001-027	 18-013-212	 696-01

**Models**

11-042 Series Model No.	Port size PTF	Operation
 11-042-003	1/2"	Relieving
 11-042-007	3/4"	Relieving
 11-042-008	1"	Relieving
 11-042-009	1-1/4"	Relieving

\* Kit includes: Screen, diaphragm, O-rings

**Accessories**

Gauge port reduction to 1/4" bushing	Gauge 0 to 160 psig	Service kit*
 2339-04	 18-013-209	 4158-01
 2339-04	 18-013-209	 4158-02
 2339-04	 18-013-209	 4158-02
 2339-04	 18-013-209	 4158-02

- In stock
- ◆ Ships within one week

**Pilot regulators are used to control the outlet pressure of a pilot operated regulator (ordered separately)**

**R41 can be close coupled to an R18 pilot regulator**

**Conventional pilot regulator provides good pressure regulation, rapid response to changing flow demands, and excellent stability.**

**Feedback pilot regulator provides superior pressure regulation under changing flow demands where changes in flow demand are not sudden or cyclic.**

**Constant bleed feature provides maximum sensitivity to system changes**



**Technical data**

**Fluid:**

Compressed air  
Inlet pressure range:  
10 to 450 psig (0.7 to 31 bar)  
maximum

**Operating temperature:**

0°F to 175°F (-20°C to 80°C)\*\*

\*\* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

**Maximum bleed rate at 50 psig (3.5 bar) outlet pressure:**

0.25 scfm (0.12 dm<sup>3</sup>/s)†  
†Maximum bleed rate occurs under dead-end (no flow) conditions.

**Pilot ports:**

1/4" PTF  
R41 feedback port: 1/8" PTF

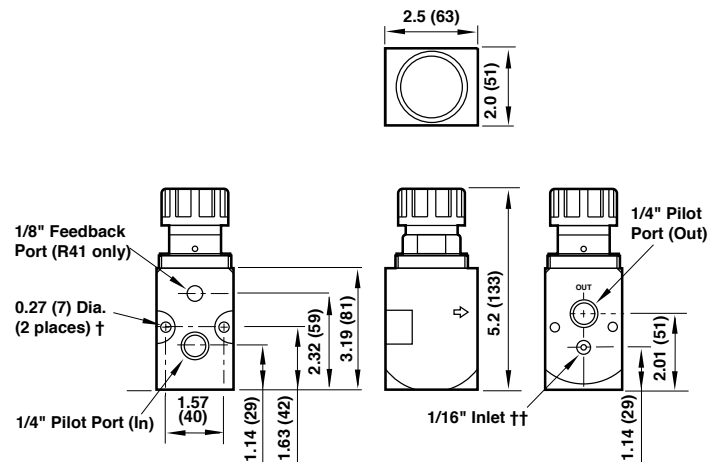
**Flow\*\***

Model	SCFM
R40	6.4
R41	6.4

\*\*Typical flow with 100 psig inlet pressure, 90 psig set pressure and 15 psig droop from set.

**Materials**

Body, bonnet: Aluminum  
Valve: PTFE  
Elastomers: Nitrile



† Mounting holes for subbase mounting.  
†† Air inlet for subbase mounting.

Dimensions in inches (mm)

**Models**

R40 and R41 Series Model No.	Type	Port size PTF	Outlet pressure adjustment range psig
R40-200-BNSA ●	Conventional Pilot	1/4"	10 to 250
R41-204-BNSA ●	Feedback Pilot	1/4"	10 to 250

**Accessories**

Wall mounting bracket	Mounting Nut (plastic)	Mounting Nut (metal)	Service kit*
5203-06 ●	5191-89 ●	5191-88 ●	5945-41 ●
5203-06 ●	5191-89 ●	5191-88 ●	5945-41 ●

NOTE: Do not use the R41 feedback pilot regulator to control outlet pressures at or less than 100 psig (7 bar). Use the 11-104 feedback pilot regulator at those pressures.

\* Kit includes: Diaphragm, valve, valve spring, guide bushing, filter screen, all O-rings

- In stock
- ◆ Ships within one week

**Feedback pilot regulators give more sensitive control and quicker reaction to downstream pressure changes.**

### Technical data

**Fluid:**

Compressed air

**Inlet pressure range:**

10 psig (0.7 bar) to 400 psig (27.6 bar) maximum

**Operating temperature:**

0°F to 175°F (-20°C to 80°C) \*

\* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

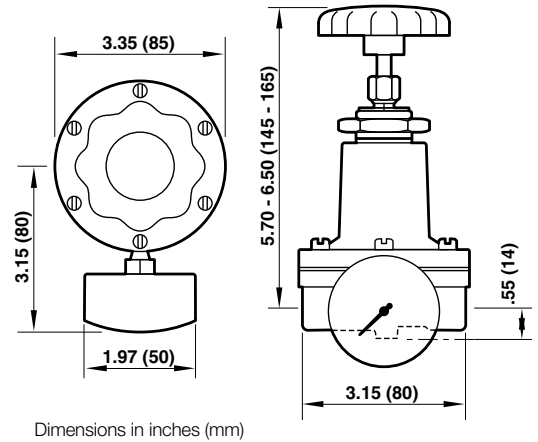
**Maximum bleed rate at 50 psig (3.5 bar) outlet pressure:**

0.25 scfm (0.12 dm<sup>3</sup>/s) †

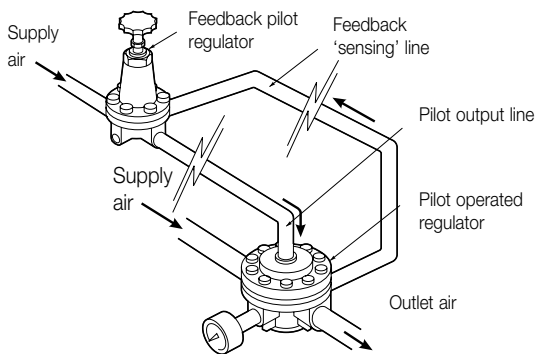
†Maximum bleed rate occurs under dead-end (no flow) conditions.

**Gauge ports:**




1/8" PTF



### Feedback pilot



### Feedback Pilot Regulator Models

11-104 Feedback Pilot Regulator Series Model No.	Port size PTF	Outlet pressure adjustment range psig	Operation	Mounting option	Bracket	Service Kit*
 11-104-001 ●	1/4"	5 to 105	Relieving	Panel/Bracket	 18-001-005 ●	 1970-11 ●
11-104-002 ●	1/4"	50 to 250	Relieving	Panel/Bracket	18-001-005 ●	1970-11 ●

\* Kit includes: Diaphragm, valve pit, valve springs, valve seat, valve ball, and all O-rings.

● In stock

◆ Ships within one week

**Fast response**

**Minimum overshoot during flow changes**

**Constant bleed feature provides maximum sensitivity to system changes**

**Relieving feature allows reduction of downstream pressure when the system is dead-ended**

**Technical data**

**Fluid:**

Compressed air  
Note: 5 micron prefiltration and oil-free air required.

**Inlet pressure range\***

Low Pressure Models: 8 to 150 psig (0.55 to 10.3 bar)

High Pressure Models: 10 to 200 psig (0.7 to 13.8 bar)

\* Inlet pressure must be at least 7 psig (0.5 bar) greater than the adjusted outlet pressure for proper operation.

**Operating temperature\*\*:**

32°F to 160°F (0°C to 70°C)

\*\* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

**Repeatability**

Low Pressure Models: 0.02 psig (0.001 bar) for flow change; 0.05 psig (0.004 bar) when turning supply off and on.

High Pressure Models: 0.08 psig (0.006 bar) for flow change; 0.16 psig (0.011 bar) when turning supply off and on.

**Constant bleed feature:**

Under dead-end conditions, a small, constant bleed of pilot air will escape thru the relief passage in the bottom plug. This will be accompanied by a slight residual outlet pressure of 1 to 4 inches H<sub>2</sub>O (2.5 to 10 millibar).

**Gauge ports:**

1/4" PTF

**Flow†**

Model	SCFM
11-018	12

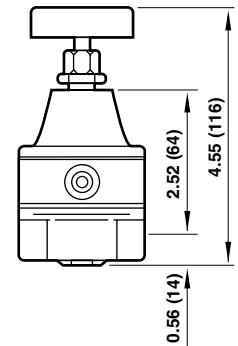
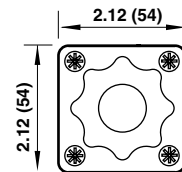
† 11-018-146, and 11-018-100:

Typical flow with 100 psig (7 bar) inlet pressure, 60 psig (4.1 bar) set pressure and 0.125 psig (0.009 bar) droop from set.

†† 11-018-110: Typical flow with 200 psig (14 bar) inlet pressure, 60 psig (4.1 bar) set pressure and 0.250 psig (0.017 bar) droop from set.


**Materials**

Body and bonnet: Zinc  
Main valve: Polycarbonate  
Main valve seat: PTFE  
Pilot valve: Stainless steel  
Pilot valve seat: Aluminum  
Main diaphragm: Nitrile  
Pilot diaphragm  
Low pressure models: 302 SS  
High pressure models: Nitrile  
Bottom plug: Brass  
Elastomers: Nitrile, CR, polyurethane



Dimensions in inches (mm)

**Models**

11-018 Model No.	Port Size PTF	Outlet pressure adjustment range* psig	Operation
 11-018-146 ● (low pressure)	1/4"	0.4 to 10	Relieving
11-018-100 ● (low pressure)	1/4"	1.0 to 60	Relieving
11-018-110 ● (high pressure)	1/4"	3 to 150	Relieving

**Accessories**

Service Kit**
2787-01 ●
2787-01 ●
2787-02 ●

\* Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.  
\*\* O-rings, seals, pilot diaphragm and spring, main diaphragm, main valve and seat, diffuser screen, constant bleed orifice and orifice filter.

- In stock
- ◆ Ships within one week

**Compact instrument units with high performance**  
**Stable regulation with temperature compensation**  
**Excellent flow and regulation characteristics**  
**Panel Mounting facility**

**Technical data**

**Fluid:**

Compressed air

**Maximum pressure:**

290 psig (20 bar)

**Operating temperature:**

-40° to 175°F (-40° to 80°C) \*

\* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

**Typical relief differential at 30 psig (2 bar) outlet pressure:**

2.3 psig (0.16 bar)

**Maximum bleed rate at 30 psig (2 bar) outlet pressure (relieving types only):**

0.003 scfm (1.5 cm<sup>3</sup>/s)†

† Maximum bleed rate occurs under dead-end (no flow) conditions.

**Gauge ports:**

1/4 NPT

**Flow\*\***

**Model**                      **SCFM**

B38                              17

R38                              17

\*\* Typical flow 100 psig (7bar) inlet pressure, 15 psig (1 bar) set pressure, and a droop of 1 psig (0.05 bar) from set.

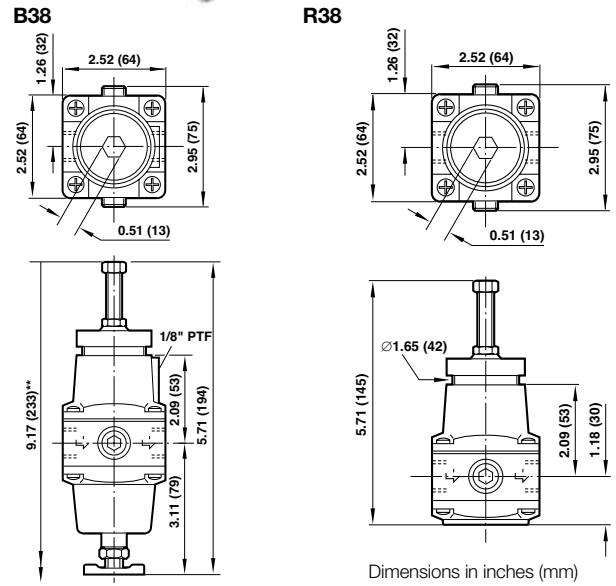
**Materials**

Body: Aluminum


Bonnet: Aluminum

Adjusting screw: Steel

Elastomeric materials: Nitrile




**Models**

B38 Series Model No.	Port Size PTF	Outlet pressure adjustment range psig	Element	Panel mounting nut	Mounting bracket and nut	Diaphragm service kit*
 B38-200-B1KA ●	1/4"	3.6 to 100	5 µm	5988-01 ●	18-001-974 ●	R38-101R ●
B38-200-B2CA ●	1/4"	0.6 to 30	25 µm	5988-01 ●	18-001-974 ●	R38-100R ●
B38-200-B2KA ●	1/4"	3.6 to 100	25 µm	5988-01 ●	18-001-974 ●	R38-101R ●

**Accessories**

**Models**

R38 Series Model No.	Port Size PTF	Outlet pressure adjustment range psig	Panel mounting nut	Mounting bracket and nut	Service Kit**
 R38-200-RNCA ●	1/4"	0.6 to 30	5988-01 ●	18-001-974 ●	R38-100R ●
R38-200-RNKA ●	1/4"	3.6 to 100	5988-01 ●	18-001-974 ●	R38-101R ●

**Accessories**

\* Kit includes: 5 µm element, element retainer, drain, gasket, O-rings, screws  
 \*\* Kit includes: Diaphragm assembly, O-ring, valve, valve spring, 8 pan head screws.

- In stock
- ◆ Ships within one week

**Model IFR (instrument filter regulator)**  
**Filter / regulator combination**  
**All 316L stainless steel**  
**High flow capability**  
**Max inlet pressure 20 bar (290 psi)**  
**Maintains set pressure with increasing flow**  
**Fully venting**  
**Reliable and long life, ideal for one time installation**



**Technical data**

**Media:**

Air  
 Filter with manual drain:  
 40 - 50 µm - stainless steel

**Relief port:**

2 mm drilled hole

**Maximum inlet pressure:**  
 20 bar (290 psi)

**Outlet pressure range:**  
 0.5 - 10 bar (7 - 145 psi)

**Temperature ratings:**

Standard =  
 Media (min/max -30/90 °C  
 (-22/194 °F))  
 Ambient (min/max -30/90 °C  
 (-22/194 °F))

**Process connections:**

IFR3 - 1/4" NPT  
 IFR4 - 1/2" NPT

**Weight:**

IFR3 - 1.8 kg  
 IFR4 - 2.2 kg

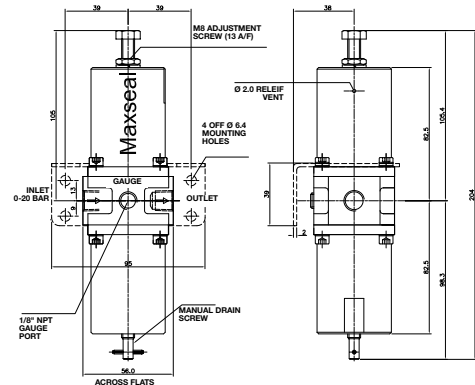
**ATEX classification:**

Exc - complies with EN13463  
 for non-electrical equipment

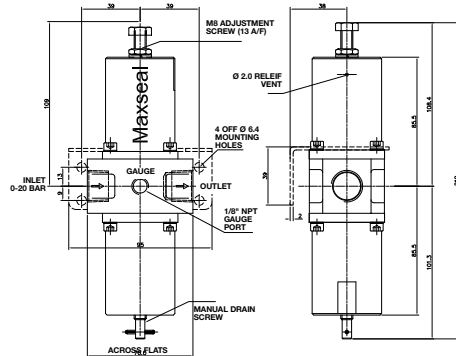
**Materials**

Valve body - stainless steel - 316L  
 Top & bottom covers - stainless  
 steel - 316  
 Valve trim materials - 316L  
 stainless steel  
 O-rings & seals - nitrile (NBR)  
 Diaphragm - nitrile (NBR)  
 Seat & adjustment springs -  
 stainless steel


**IFR3 - 1/4" Filter/regulator combination**



**IFR4 - 1/2" Filter/regulator combination**



**Models**

Part number	Outlet pressure psi (bar)	Drain type	Port size NPT	Seat/seal materials	Gauge	Filter element
 YR2ACA1H1BS040	7 to 145 (0.5 to 10)	Manual	1/4	NBR	304/316SS dry, bar & psi	40 to 50 µm
YR2ACA3H1BS040	7 to 145 (0.5 to 10)	Manual	1/2	NBR	304/316SS dry, bar & psi	40 to 50 µm

- In stock
- ◆ Ships within one week

**Designed for use in corrosive environments**  
**Metallic parts meet NACE Standard MR-01-75\***  
**Meets certain requirements of Military Specifications\*\***

\*National Association of Corrosion Engineers (NACE) MR-01-75 defines requirements for sulphide stress cracking resistant materials used in well-head and other corrosive environments.

\*\* Meets certain requirements of MIL-S-901C (Navy) 15 Jan 1963: Military Specifications Shock Test H.I. (High Impact); Shipboard Machinery, Equipment and Systems and MIL-STD-167-1 (Ships) Military Standard Mechanical Vibrations of Shipboard Equipment.



### Technical data

#### Fluid:

Compressed air

#### Maximum pressure:

450 psig (31 bar)

#### Operating temperature:

-40° to 175°F (-40° to 80°C)\*

\*Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

#### Particle removal:

5 or 25 µm

#### Materials

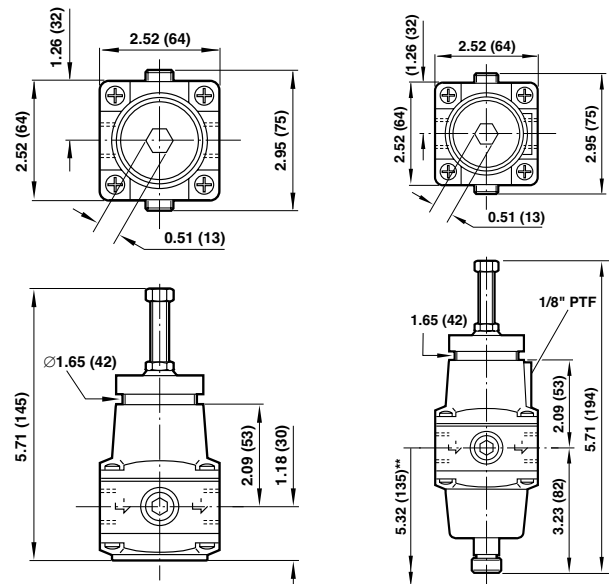
Body: Stainless steel

Bonnet: Stainless steel

Adjusting screw: Stainless steel




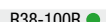
Elastomeric materials: Nitrile

Elements: High density polyethylene









Dimensions in inches (mm)

### Models

R38 Series Model No.	Port size PTF	Outlet pressure range PSIG	Flow SCFM*	Operation	Mounting bracket and nut	Panel mounting nut	Gauge 0 to 85 psig	Hand-wheel	Service kit**
	1/4"	0.6 to 30	17 (8)	Relieving					
R38-240-RNCA	1/4"	0.6 to 30	17 (8)	Relieving	18-001-973	5988-02	18-013-913	74630-04	R38-100R

### Accessories

### Models

B38 Series Model No.	Model No. With mounting bracket	Port size PTF	Outlet pressure range PSIG	Flow SCFM*	Operation	Drain	Element	Mounting bracket and nut	Panel mounting nut	Gauge 0 to 160 psig	Hand-wheel	Service kit**
	B38-242-B1KA	1/4"	4 to 100	17 (8)	Relieving	Manual	5 µm					
B38-240-B1KA	B38-242-B1KA	1/4"	4 to 100	17 (8)	Relieving	Manual	5 µm	18-001-973	5988-02	18-013-917	74630-04	R38-101R
B38-240-B2KA	-	1/4"	4 to 100	17 (8)	Relieving	Manual	25 µm	18-001-973	5988-02	18-013-917	74630-04	R38-101R

### Accessories

\* Typical flow with 102 psi (7 bar) inlet pressure, 15 psi (1 bar) set pressure and 0.7 psi (0.05 bar) droop from set

\*\* Kit includes: Diaphragm assembly, O-ring, valve, valve spring, 8 pan screws

● In stock

◆ Ships within one week



**Designed for use in corrosive environments**  
**Metallic parts meet NACE Standard MR-01-75\***  
**Meets certain requirements of Military Specifications\*\***

\*National Association of Corrosion Engineers (NACE) MR-01-75 defines requirements for sulphide stress cracking resistant materials used in well-head and other corrosive environments.

\*\* Meets certain requirements of MIL-S-901C (Navy) 15 Jan 1963: Military Specifications Shock Test H.I. (High Impact); Shipboard Machinery, Equipment and Systems and MIL-STD-167-1 (Ships) Military Standard Mechanical Vibrations of Shipboard Equipment.

**Technical data**

**Fluid:**

Compressed air

**Maximum pressure:**

Manual drain: 450 psig (31 bar)  
 Automatic drain: 250 psig (17 bar)

**Operating temperature:**

-40° to 175°F (-40° to 80°C) \*  
 \* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

**Particle removal:**

5 or 25 µm filter element

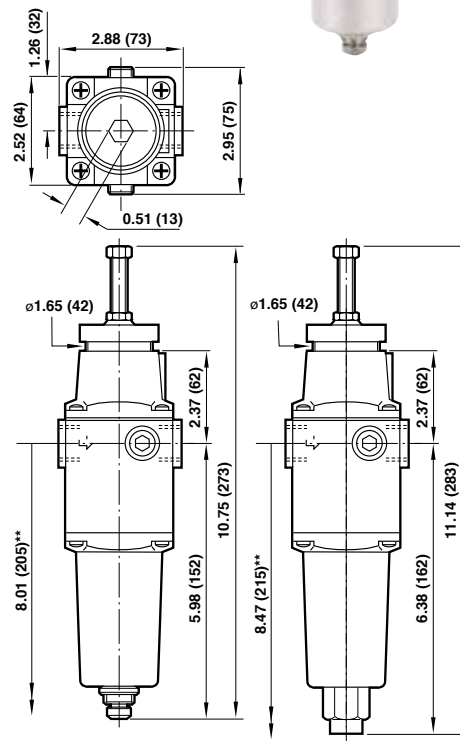
**Flow\*\***

Model	SCFM
B38	106

\*\* Typical flow with 175 psig inlet pressure, 115 psig set pressure and 15 psig droop from set.

**Materials**

Body: Stainless steel  
 Bonnet: Stainless steel  
 Bowl: Stainless steel  
 Adjusting screw: Stainless steel  
 Elements  
 High density polyethylene  
 Elastomers: Nitrile



Dimensions in inches (mm)

**Models**

B38 Model No.	Port Size	Outlet pressure adj. range psig	Operation	Drain	Element
Manual drain	1/2" PTF	4 to 125	Relieving	Manual	5 µm
Automatic drain	1/2" PTF	4 to 125	Relieving	Manual	25 µm

**Accessories**

Mounting bracket and nut	Panel mounting nut	Gauge 0 to 160 psig	Hand-wheel	Element Kit	Service Kit*
18-001-973	5988-02	18-013-917	74630-04	2787-43	2787-41
18-001-973	5988-02	18-013-917	74630-04	2787-44	2787-41

\* Kit includes: Element, seals, and screws

- In stock
- ◆ Ships within one week

**Materials meet NACE\* recommendations  
(MR-0175, 2002 revision)**
**Metal bowls with sightglasses**

\* National Association of Corrosion Engineers – recognised oil-field recommendation for resistance to sulphide stress cracking common in well-head and other corrosive environments

**Technical data**
**Medium:**

Compressed air only

**Maximum inlet pressure:**

250 psig (17 bar) (F22, L22)

300 psig (20 bar) (R22)

**Gauge ports:**

1/4" PTF (R22)

**Pressure range:**

R22: 5 to 150 psig (0.4 to 10 bar)

**Operation:**

R22: Relieving

L22: Oil-fog

**Start Point:**

L22: 3 scfm at 90 psig inlet pressure (1.7 dm<sup>3</sup>/s at 6.3 bar)

**Ambient temperature:\***

0°F to 175°F (-20°C to +80°C)

\*Consult our Technical Service for use below 35°F (+2°C)

**F22 particle removal:**

25 µm

**Flow**
**Model                      SCFM**

F22\*\*                      98

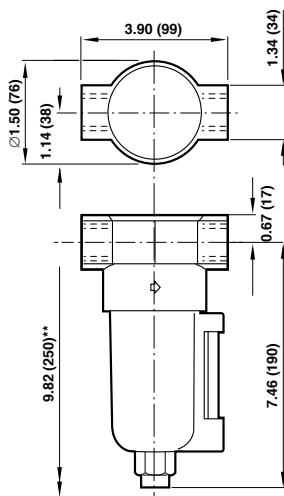
R22†                      106

L22††                      102

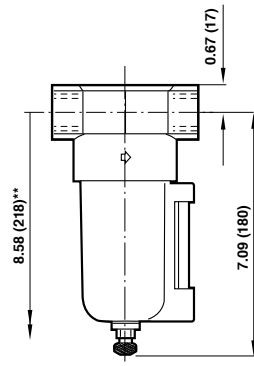
\*\*Typical flow with 25 µm element at 90 psig inlet pressure, and 5 psig pressure drop.

† Typical flow with 150 psig inlet pressure, 90 psig set pressure, and a 15 psig droop from set.

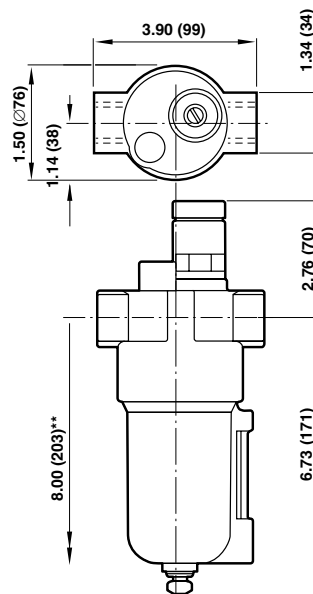
†† Typical flow with 90 psig inlet pressure and 7 psig pressure drop.


**F22 Auto Drain**


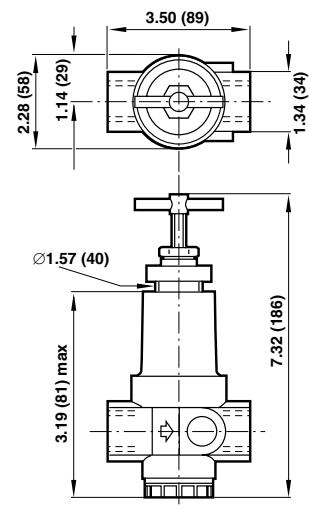
Automatic Drain  
\*\*Minimum clearance required to remove bowl

**F22 Manual Drain**


Manual Drain

**L22**








\*\* Minimum clearance required to remove bowl.

**R22**


Dimensions in inches (mm)







- In stock
- ◆ Ships within one week

**Models**

F22 Auto Drain Model No.	F22 Manual Drain Model No.	Port Size PTF	Indicator Assembly	Element	Wall mounting bracket	Indicator Assembly	Auto drain service kit*	Manual drain service kit*
		1/2"	No	25 µm				
F22-400-A2DA ●	F22-400-M2DA ●	1/2"	No	25 µm	18-001-962 ●	5796-47 ●	F22-100A ●	F22-100M ●






\* Kit includes: O-rings, gaskets, specified filter element, drain strainer and cap

**Models**

F22H Auto Drain Model No.	F22H Manual Drain Model No.	Port Size PTF	Indicator Assembly	Element	Wall mounting bracket	Indicator Assembly	Manual Drain Kit*	Element
		1/2"	No	Coalescing				
F22H-4AN-TD0 ●	F22H-4AN-MD0 ●	1/2"	No	Coalescing	18-001-962 ●	5796-47 ●	2273-18 ●	5350-26 ●
F22H-4AD-TD0 ●	F22H-4AD-MD0 ●	1/2"	Yes	Coalescing	18-001-962 ●	—	2273-18 ●	5350-26 ●

\* Kit includes: O-rings, gaskets, specified filter element, drain strainer and cap

**Models**

R22 Auto Drain Model No.	Adjusting screw	Port Size PTF	Operation	Wall mounting bracket	Neck mounting bracket	Gauge 0 to 160 psig	Service Kit*
	T-handle	1/2"	Relieving				
R22-401-RNMA ●	T-handle	1/2"	Relieving	18-001-962 ●	18-001-959 ●	18-013-917 ●	R22-100R ●
R22-405-RNMA ●	Knob	1/2"	Relieving	18-001-962 ●	18-001-959 ●	18-013-917 ●	R22-100R ●

\* Kit includes: Diaphragm assembly, O-ring, valve, valve spring

**Models**

L22 Closed Bottom Model No.	L22 Manual Model No.	Port Size PTF	Wall mounting bracket	Sight feed dome	Service Kit*
		1/2"			
L22-405-OP8A ●	L22-405-OPDA ●	1/2"	18-001-962 ●	6336-50 ●	L22-100 ●

\* Kit includes: Seals, check valve, ball and spring, sight dome, filter plug assemblies

- In stock
- ◆ Ships within one week

**316 Stainless Steel Construction for use in corrosive environments**
**General purpose filters protect devices by removing liquid and solid contaminants**
**Coalescing filters remove oil and very small particles**
**Metallic parts meet NACE standard MR-01-75\***

\* National Association of Corrosion Engineers - recognised oil-field recommendation for resistance to sulphide stress cracking common in well-head and other corrosive environments.

**Technical data**
**Fluid**

Compressed air, neutral gasses  
 Note: Contact Norgren for use with other media.

**Maximum Pressure**

300 psi (20 Bar)

**Operating Temperature**

-30°F to 175°F (-34°C to 79°C)

**Particle Removal**

General Purpose: 5µm  
 Coalescing: Down to 0.01µm

**Air Quality**

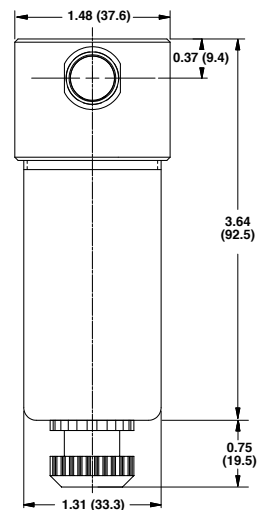
Coalescing Filter: 0.01ppm at 70°F (21°C) with an inlet oil concentration of 17 ppm.

**Nominal Bowl Size**

1 fl. oz. (31ml)



**Materials**

Body, Bowl: 316 Stainless Steel  
 Elements  
 General Purpose Filter: Sintered Polypropylene  
 Coalescing Filter: Synthetic Fiber Polyurethane Foam  
 Elastomers: Fluorocarbon  
 Manual Drain: Acetal



Dimensions in inches (mm)

**Models**

Model Number	Filter Type	Dry Flow* scfm (dm <sup>3</sup> /s)	Saturated Flow scfm (dm <sup>3</sup> /s)	Weight lbs (kg)	Element 5 µm
 <b>F05G-2AN-MM1</b> ●	General Purpose, 5µm	24 (11.5)	-	1 (.96)	 ●
<b>F05C-2AN-DMO</b> ●	Coalescing (Oil Removal)	12.2 (5.8)	6.4 (3.0)	1 (.96)	

\* Maximum flow with 90 psig (6.3 bar) inlet pressure to maintain stated oil removal performance.

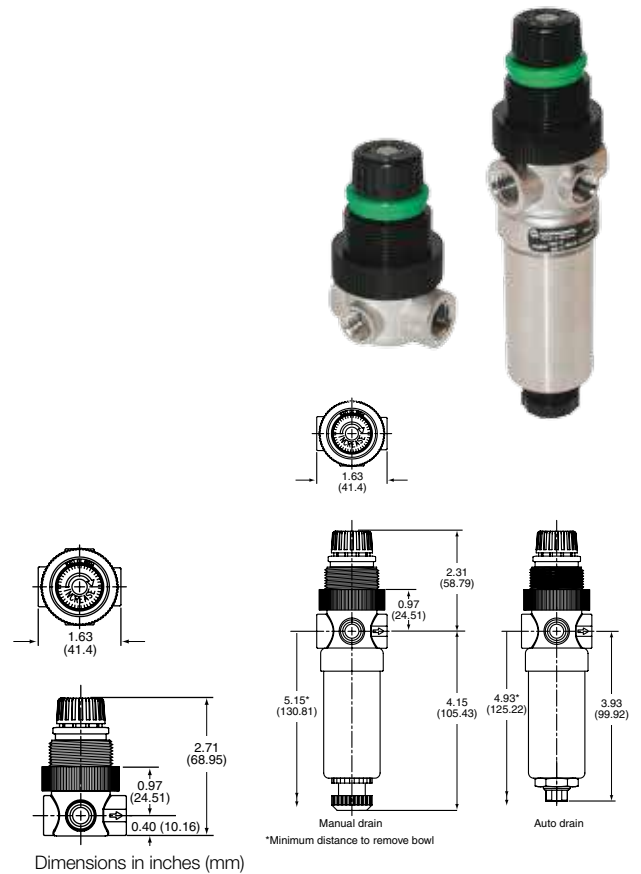
- In stock
- ◆ Ships within one week

- Metallic parts meet NACE\* recommendations**
- Miniature corrosion resistant design**
- Adjusting knob has snap-action lock**
- Particularly suitable for marine, petro-chemical, food processing, medical, dental and similar applications**
- Panel mounting facility**



\* National Association of Corrosion Engineers - recognised oil-field recommendation for resistance to sulphide stress cracking common in well-head and other corrosive environments.

**Technical data**

- Medium:**  
Compressed air only
  - Maximum inlet pressure:**  
300 psig (20 bar)
  - Gauge ports:**  
1/8" PTF
  - Ambient temperature:**  
-30°F to 150°F (-34°C to +66°C)\*  
\*Consult our Technical Service for use below 35°F (+2°C)
  - B05 Particle removal:**  
5 µm
  - Flow\*\***
- | Model         | SCFM |
|---------------|------|
| B05 and R05** | 15   |
- \*\* Typical flow with 150 psig inlet pressure, 90 psig set pressure, and a 15 psig droop from set.



**Models**





B05 Auto Drain Model No.	B05 Manual Drain Model No.	Port Size PTF	Outlet pressure adjustment range psig
 B05-233-A1LA	 B05-233-M1LA	1/4"	5 to 125

**Accessories**





Wall mounting bracket	Mounting nut	Gauge** 0 to 150 psig	Element	Service Kit*
				
18-025-003	2962-89	18-013-844	5726-04	3820-08

\* Kit includes: Diaphragm, seals, O-rings, valve

**Models**

R05 Auto Drain Model No.	Port size PTF	Outlet pressure adjustment range psig	Operation
 R05-200-RNEA	1/4"	5 to 50	Relieving
 R05-200-RNLA	1/4"	5 to 125	Relieving
 R05-200-NNEA	1/4"	5 to 50	Non-relieving
 R05-200-NNLA	1/4"	5 to 125	Non-relieving

**Accessories**

Wall mounting bracket	Mounting nut	Gauge** 0 to 150 psig	Service Kit*
			
18-025-003	2962-89	18-013-844	3407-71
18-025-003	2962-89	18-013-844	3407-71
18-025-003	2962-89	18-013-844	-
18-025-003	2962-89	18-013-844	-

\* Kit includes: Slip ring, diaphragm, valve seat with seal, valve, valve spring

\*\* Not NACE standard

- In stock
- ◆ Ships within one week

**Non-relieving models.**
**Acetal plastic, corrosion resistant construction**
**Low torque, non-rising adjusting knob.**
**Designed for use with deionized water and potable water systems. Plastic (not assembly) is NSF approved. All elastomers are CFR 21 FDA food and water contact compliant. Non-relieving models only**

**Technical data**
**Fluid:**

Water and compressed air

**Maximum pressure:**

250 psig (17 bar)

**Operating temperature:**

Water service: 35° to 150°F (2° to 66°C)

Air service: -30° to 150°F (-34° to 66°C)\*

\*When used in air service, air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

**Port connections:**

1/4" OD tube (brass nut and plastic ferrule supplied)

**Recommended tubing:**

1/4" soft PVC or Polyethylene tubing. Avoid aluminum, copper, and hard plastic tubing.

**Typical flow**

 Compressed air service at 100 psig (7 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a droop of 15 psig (1 bar) from set: 3.0 scfm (1.4 dm<sup>3</sup>/s)

**Typical flow**

Water service at 100 psig (7 bar) inlet pressure, 60 psig (4 bar) set pressure and a droop of 15 psig (1 bar) from set: 0.7 U.S. gpm (2.65 liters per minute)

**Materials**

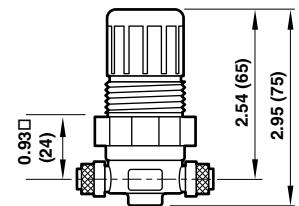
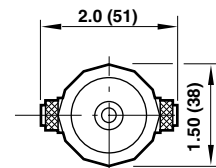
Body: Acetal

Bonnet: Acetal

Valve: Stainless steel with EPDM seal (CFR21 FDA food and water contact compliant)





Valve seat: Acetal

Diaphragm: Stainless steel and nitrile (CFR21 FDA food and water contact compliant)



Dimensions in inches (mm)

**Models**

11-044 Series Model No.	Port Connection	Outlet pressure adjustment range* psig	Neck mounting bracket	Mounting nut	Repair kit
 11-044-001 ●	1/4" tube nut and ferrule	1 to 10	 18-025-003 ●	 2962-89 ●	 3407-59
11-044-003 ●	1/4" tube nut and ferrule	5 to 100	18-025-003 ●	2962-89 ●	3407-59

\* Outlet pressure can be adjusted to pressures in excess, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

\*\* Kit includes: Slip ring, valve seat, valve, valve seal, and diaphragm

● In stock

◆ Ships within one week

**Compact design**

**Brass body with choice of plastic or brass bonnet**

**Brass bonnet equipped with pressure adjusting screw**

**Non-relieving models for water and air service**

**Technical data**

**Fluid:**

Water and compressed air

**Maximum pressure:**

400 psig (27 bar)

**Operating temperature**

**Water service:**

35° to 150°F (2° to 65°C)

**Air service:**

-30° to 150°F (-34° to 65°C) \*

\* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

**Typical flow**

For water service at 100 psig (7 bar) inlet pressure, 60 psig (4 bar) set pressure and a droop of 15 psig (1 bar) from set: 1.3 gpm (4.9 lpm)

**Typical flow**

For compressed air service at 100 psig (7 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a droop of 15 psig (1 bar) from set: 12 scfm (5.7 dm<sup>3</sup>/s)

**Gauge ports:**

1/8" PTF

**Materials**

Body: Brass

Bonnet

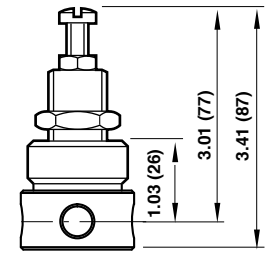
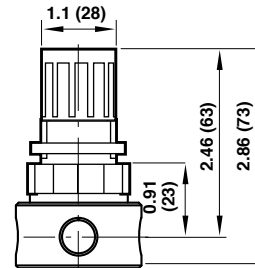
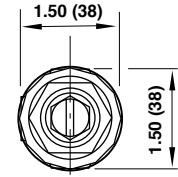
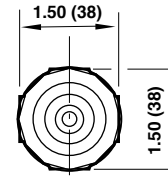
Standard: Acetal resin

Optional: Brass

Valve: Brass/nitrile

Valve seat: Acetal resin













Elastomers: Nitrile



R06 x21 Models with Plastic Bonnet  
Dimensions in inches (mm)

R06 x22 Models with Brass Bonnet

**Models**

R06 Series Model No.	Port size PTF	Outlet pressure adjustment range PSIG (bar)	Bonnet Material	Neck mounting bracket	Mounting nut	Service Kit*
 R06-121-NNEA	1/8"	5 to 50 (0.3 to 3.5)	Plastic	 18-025-003	 2962-89	 3407-17
 R06-121-NNKA	1/8"	5 to 100 (0.3 to 7)	Plastic	18-025-003	2962-89	3407-17
 R06-221-NNEA	1/4"	5 to 50 (0.3 to 3.5)	Plastic	18-025-003	2962-89	3407-17
 R06-221-NNKA	1/4"	5 to 100 (0.3 to 7)	Plastic	18-025-003	2962-89	3407-17
 R06-122-NNKA	1/8"	5 to 100 (0.3 to 7)	Brass	 18-001-021	 616-01	 3407-17
 R06-222-NNKA	1/4"	5 to 100 (0.3 to 7)	Brass	18-001-021	616-01	3407-17

\* Kit includes: Diaphragm, slip ring, standard valve seat with O-ring, valve spring.

- In stock
- ◆ Ships within one week

**R91W: Use with deionized water and potable water systems. Plastic (not assembly) is NSF approved. All elastomers are CFR 21 FDA food and water contact compliant. Non relieving models only.**

### Technical data

#### Fluid:

Potable water, deionized water

#### Maximum pressure:

150 psig (10 bar)

#### Operating temperature:

Water service: 35° to 125°F  
(2° to 52°C)

#### Gauge ports:

1/8 PTF with PTF main ports

#### Flow\*

1.75 gpm

\* Typical flow with 100 psig (7 bar) inlet pressure, 60 psig (6.3 bar) set pressure and 15 psig (1 bar) droop from set.

#### Materials

Body and bonnet: Acetal

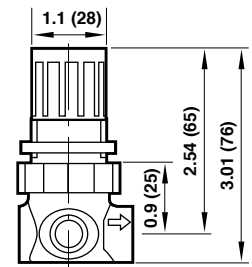
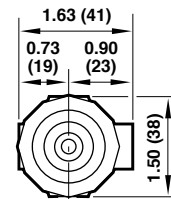
Valve: Stainless steel/food grade EPDM

Valve seat: Acetal

Valve seat o-ring: Food grade EPDM

Diaphragm: Acetal/nylon inserted nitrile, food grade





Gauge port plugs: Nylon



\* Panel mounting hole diameter.  
\*\* Maximum panel thickness.

Dimensions in inches (mm)

### Models

R91 Series Model No.	Port size PTF	Outlet pressure adjustment range psig	Flow US gpm	Wall mounting bracket	Mounting nut	Service kit*
						
<b>R91W-2AK-NEN</b> ●	1/4"	5 to 50	1.75	18-025-003 ●	2962-89 ●	3407-93 ●
<b>R91W-2AK-NLN</b> ●	1/4"	5 to 125	1.75	18-025-003 ●	2962-89 ●	3407-93 ●

\* Kit includes: Diaphragm, slip ring, valve seat with O-ring, valve and valve spring.

● In stock

◆ Ships within one week



**Non-relieving models**

**Brass body**

Full flow gauge ports can be used as auxiliary outlets

**Technical data**

**Fluid:**

Water and compressed air

**Maximum pressure:**

400 psig (27 bar)

**Operating temperature:**

Water service: 35° to 200°F (2° to 93°C)

Air service: -30° to 200°F (-34° to 93°C)\*

\* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

**R43 Gauge ports**

1/4" PTF

**11-009 Gauge ports**

1/8" PTF

**Flow\*\***

**Model** **GPM**

R43 201\*\* 6

R43 301 6

R43 406 9

11 009† 27.5

\*\*Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and 15 psig (1 bar) droop from set.

† Typical flow with 100 psig (6.9 bar) inlet pressure, 60 psig (4 bar) set pressure and 15 psig (1 bar) droop from set.

NOTE: Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

**Materials:**

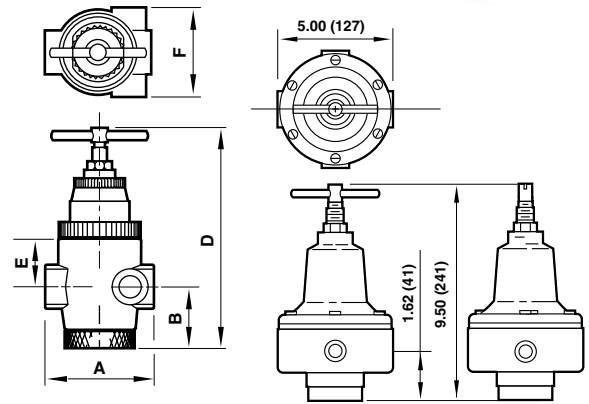
Body: Brass

Bonnet: Aluminum

Valve: Brass

Bottom plug: Brass

Elastomers: Nitrile





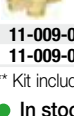


Dimensions in inches (mm)

**Dimensions (inches)**



Port size	A	B	C	D	E	F
1/4", 3/8"	2.76	1.52	4.86	5.75	1.21	2.31
1/2"	3.34	1.59	5.01	5.90	1.28	2.44

**Models**

R43 Series Model No.	Port connection PTF	Outlet pressure adjustment range psig	Mounting bracket with nut	Service kit**
 R43-201-NNLA ●	1/4"	5 to 125 ●	5203-05 ●	5298-03 ●
 R43-301-NNLA ●	3/8"	5 to 125 ●	5203-05 ●	5298-03 ●
 R43-406-NNEA ●	1/2"	5 to 50 ●	5203-05 ●	5298-10 ●
 R43-406-NNLA ●	1/2"	5 to 125 ●	5203-05 ●	5298-10 ●
 R43-406-NNSA ●	1/2"	15 to 250 ●	5203-05 ●	5298-10 ●

\*\* Kit includes: Diaphragm, O-rings, valve, valve spring

**Accessories**

Mounting bracket with nut	Service kit**
	

**Models**

11 009 Series Model No.	11-009 with gauge	Port connection PTF	Outlet pressure adjustment range psig	Service kit**
 11-009-065 ●	 11-009-073 ●	3/4"	5 to 125	2436-03 ●
 11-009-081 ●	 11-009-089 ●	1"	5 to 125	2436-03 ●

\*\* Kit includes: Diaphragm, valve seat, valve pin, valve pin gasket, valve, valve spring, O-rings

- In stock
- ◆ Ships within one week

**Underwriters Laboratories, Inc. listed (file number SA1089) for use with air, argon, carbon dioxide, krypton, neon, nitrogen, xenon. For use with other gases, including oxygen, consult Norgren.**

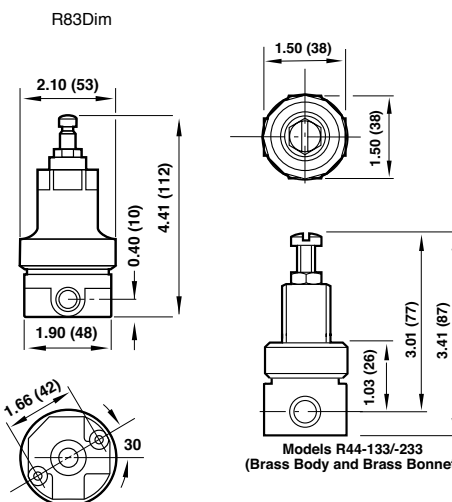
**Relieving models allow reduction of outlet pressure even when the system is dead-ended**

**Technical data**

<b>R44</b>	<b>Flow</b>	
<b>Fluid:</b>	<b>Model</b>	<b>SCFM</b>
Compressed air, carbon dioxide, inert gases	R44**	10
	R83†	11
<b>Maximum pressure:</b>	** R44 flow at 100 psig inlet, 90 psig set, and 15 psig droop	
250 psig (17 bar)	NOTE: Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.	
<b>Operating temperature:</b>		
-30° to 150°F (-34° to 66°C) *		
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).		





**R83**  
**Fluid:**  
Air, argon, carbon dioxide, krypton, neon, nitrogen, and xenon. For use with other gases, including oxygen, consult Norgren.  
NOTE: Do not use the R83 regulator in beverage dispensing applications. Other Norgren regulators (R81 for soft drink, R82 for beer, R84 for carbonators) are available for use in dispensing systems.

**Maximum pressure:**  
3000 psig (207 bar)  
**Operating temperature:**  
-30° to 140°F (-34° to 60°C) \*  
\* Fluid must be dry enough to avoid ice formation at temperatures below 35°F (2°C).



**Mounting Holes (2 Places)**  
0.18" (4.6mm) dia. by 0.39 (10mm) deep.  
Use 10-32 thread forming screws.  
Dimensions in inches (mm)


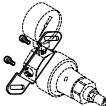



**Models**

R44 Series Model No.	Port size PTF	Outlet pressure adjustment range psig	Wall mounting bracket	Service kit*
 R44-233-RNEA	1/4"	5 to 50	 18-001-021	 3407-02
 R44-233-RNKA	1/4"	5 to 125	18-001-021	3407-02

\* Kit includes: Slip ring, diaphragm, standard valve seat with seal, valve, valve spring.

**Accessories**

**Models**

R83 Series Model No.	Port size PTF	Outlet pressure adjustment range* psig	Wall mounting bracket	Gauge	Relieving diaphragm	Valve cartridge*
 R83-200-RNLA	1/4"	5 to 125	 5095-51	 18-013-085	 570-51	 5086-55

\* Kit includes: Valve cartridge and seal

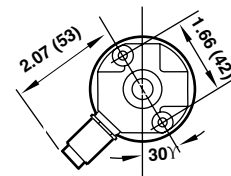
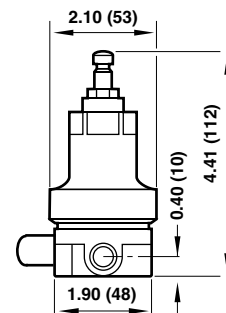
- In stock
- ◆ Ships within one week

Underwriters Laboratories, Inc. listed (file number SA1089)

The R81 regulator and C81 regulator configurations with integral relief valve and outlet check valves meet the requirements of paragraphs 4.5 and 4.6 of NSDA Pamphlet TD02, Installation and Operational Procedures for Pressurized Soft Drink Dispensing Systems, dated July, 1980.

The R82 regulator with integral relief valve meets the requirements of Proposed Section 9.7, Draught Beer Dispensing Equipment and Related Components (Seventh Draft dated October 17, 1980), of ANSI-ASME F2.1-1975, Food, Drug, and Beverage Equipment.

The R84 regulator is designed to be used exclusively as a carbonator regulator in soft drink dispensing systems to control cylinder gas (carbon dioxide) pressure to the carbonator tank.



**Mounting Holes (2 Places)**  
0.18" (4.6mm) dia. by 0.39 (10mm) deep.  
Use 10-32 thread forming screws.

Dimensions in inches (mm)

**Technical data**

**Fluid:**

Carbon dioxide

**Maximum pressure:**

3000 psig (207 bar)

**Operating temperature:**

0° to 140°F (-18° to 60°C)

**Integral relief valve cracking pressure:**

R81: 130 ± 4 psig (9.0 ± 0.28 bar)

R82: 60 ± 4 psig (4.1 ± 0.28 bar)

R84: 150 ± 5 psig (10.4 ± 0.33 bar)

**Materials**

Body: Brass

Bonnet: Zinc




Valve cartridge: PTFE, brass, stainless steel

Diaphragm: Acetal and nitrile

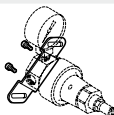



Relief valve: Brass, polycarbonate, nitrile, aluminum

Seals: Nitrile

**Models**

R80 Series Model No.	Port size PTF	Outlet pressure adjustment range* psig
 R81-200-LNKA ●	1/4"	5 to 100
 R82-200-ENEA ●	1/4"	2 to 45
 R84-200-MNLA ●	1/4"	5 to 125

**Accessories**

Wall mounting bracket	Gauge	Valve cartridge	Diaphragm assembly
 5095-51 ●	 18-013-085 ●	 5086-55 ●	 570-51 ●
5095-51 ●	18-013-083 ●	5086-55 ●	570-51 ●
5095-51 ●	18-013-085 ●	5086-55 ●	570-51 ●

\* Outlet pressure can be adjusted to pressures in excess of, and less than, that specified. Do not use these units to control pressures outside of the specified range.

- In stock
- ◆ Ships within one week

**Used in low-volume air tanks to retard excessive pressure buildup**

**Constructed of brass and stainless steel for compressed air and water service**

### Technical data

**Fluid:**

Compressed air

**Maximum pressure:**

300 psig (20 bar)

**Operating temperature\*:**

-30° to 200°F (-34° to 93°C)

\*Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

**Repeatability:**

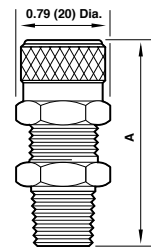
± 20% of relief pressure setting

**Materials:**

Body, cap, spring rest: Brass

Valve: Brass and nitrile


Regulating spring: Stainless steel



A: 1.56 (62) for 1/8" pipe size  
1.75 (44) for 1/4" pipe size

Dimensions in inches (mm)

### Models

16-004 Series Port size PTF	5 to 25 psig* Model No.	25 to 50 psig* Model No.	25 to 75 psig* Model No.	70 to 150 psig* Model No.	125 to 300 psig* Model No.	Weight lbs (kg)
						
1/8"	16-004-030 ●	16-004-001 ●	16-004-002 ●	16-004-003 ●	16-004-004 ●	0.11 (0.05)
1/4"	16-004-031 ●	16-004-009 ●	16-004-010 ●	16-004-011 ●	16-004-012 ●	0.11 (0.05)

\* Pressure relief ranges. Relief valves can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

● In stock

◆ Ships within one week

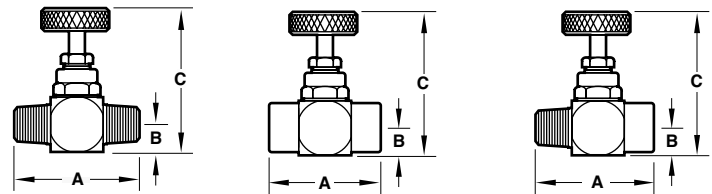
- Bar stock machined brass body
- Tapered brass needle
- Adjustable stem packing nut with PTFE seal
- Retained adjustment stem
- Metal to metal sealing surfaces
- Accurate metering of fluids
- 3,000 psig inlet pressure




**Technical data**

**Specifications**

Fluid: Compressed air, water, steam, and other non-flammable, inert gases and liquids  
 Max. Inlet Pressure: 3,000 psig (207 bar)  
 Temperature Range: -40° to 500°F (-40° to 260°C)  
 Maximum Differential Pressure: 15 psid (1 bar d)  
 Ports: 1/8 or 1/4 NPT  
 Orifice Size: Ø0.187" (5 mm)  
 CV: 0.401  
 Materials of Construction  
 Body, needle, packing nut, knob: Brass  
 Stem Seal: PTFE



**Models**

17-001 Series Port size PTF	5 to 25 psig* Model No.	25 to 50 psig* Model No.	25 to 75 psig* Model No.	70 to 150 psig* Model No.	125 to 300 psig* Model No.	Weight lbs (kg)
						
Male	Male	17-001-107 ●	1.81 (46)	0.38 (10)	2.13 (54)	2.25 (57)
Female	Female	17-001-110 ●	1.63 (41)	0.38 (10)	2.13 (54)	2.25 (57)
Male	Female	17-001-114 ●	1.72 (44)	0.38 (10)	2.13 (54)	2.25 (57)

- In stock
- ◆ Ships within one week

**Automatically expels liquids from the piping network**

**Automatic drain valve opens when system is unpressurized, allowing water to escape by gravity**

**Automatic drain valve is float operated when system is pressurized**

**Install at low points and at far end of piping network**

### Technical data

#### Fluid:

Compressed air

#### Maximum pressure

Transparent bowl: 150 psig (10 bar)

Metal bowl: 250 psig (17 bar)

#### Operating temperature\*

Transparent bowl: 0° to 125°F (-20° to 50°C)

Metal bowl: 0° to 175°F (-20° to 80°C)

\* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

#### Automatic drain connection:

1/8" pipe thread

#### Automatic drain operating conditions (float operated):

Bowl pressure required to close drain: Greater than 5 psig (0.3 bar)

Minimum air flow thru drain required to close drain: 2 scfm (1 dm<sup>3</sup>/s).

Bowl pressure required to open drain: Less than 3 psig (0.2 bar)

Manual operation: Depress pin inside drain outlet to drain bowl  
 NOTE: Flexible tube with 0.125" (3mm) minimum I.D. can be connected to the drain. Avoid restrictions in the tube.

#### Materials

Body: Zinc

Bowl

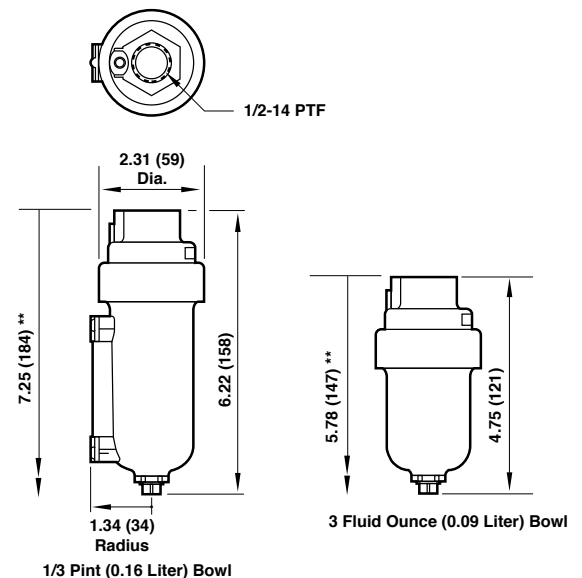
Transparent: Polycarbonate

Metal: Zinc

Drain mechanism: Acetal, Nitrile, stainless steel

Metal bowl liquid level indicator lens: Pyrex

Elastomers: CR




1/3 Pint (0.16 Liter) Bowl

\*\* Minimum clearance required to remove bowl.

Dimensions in inches (mm)

### Models

17-016 Series Model No.	Port size PTF	Bowl type	Bowl size	Weight lbs (kg)
 17-016-104 ●	1/2"	Transparent	1/3 pint (0.16 liter)	0.8 (0.38)
17-016-107 ●	1/2"	Metal with sight glass	1/3 pint (0.16 liter)	1.3 (0.59)
17-016-102 ●	1/2"	Transparent	3 fluid ounce (0.09 liter)	0.8 (0.38)

● In stock

◆ Ships within one week

Monitor pressures in compressed air systems for optimum efficiency

Triple calibrated scale indicates pressure in psi, bar, and Mpa (megapascal)

Back or bottom connection



Center back connection

Scale Range Outer scale psig	Middle scale scale bar	Inner scale Mpa	Connection and Face Diameter			
			1/8" NPT 1.5" dia.	1/8" NPT 2" dia.	1/4" NPT 2" dia.	R1/4 2" dia.
0 to 30	0 to 2	0 to 0.2	18-013-214 ●	18-013-201 ●	18-013-207 ●	-
0 to 60	0 to 4	0 to 0.4	18-013-211 ●	18-013-202 ●	18-013-208 ●	18-013-266 ●
0 to 100	0 to 7	0 to 0.7	-	18-013-203 ●	18-013-235 ●	-
0 to 160	0 to 11	0 to 1.1	18-013-212 ●	18-013-204 ●	18-013-209 ●	18-013-260 ●
0 to 300	0 to 20	0 to 2.1	18-013-275 ●	18-013-205 ●	18-013-210 ●	18-013-267 ●

Bottom connection

Outer scale psig	Scale Range Middle scale bar	Inner scale Mpa	Connection and Face Diameter	
			1/8" NPT 1.5"	1/4" NPT 2"
0 to 15	0 to 1	-	-	18-013-082 ●
0 to 30	0 to 2	0 to 0.2	18-013-224 ●	18-013-030 * ●
0 to 60	0 to 4	0 to 0.4	18-013-225 ●	18-013-083 * ●
0 to 100	0 to 7	0 to 0.7	18-013-265 ●	18-013-084 * ●
0 to 160	0 to 11	0 to 1.1	18-013-273 ●	18-013-085 * ●
0 to 300	0 to 20	-	-	18-013-086 * ●
0 to 2000	0 to 135	-	-	18-013-244 * † ●

\* Underwriters Laboratories Inc. Listed  
† Shipped with pulsation dampener installed.

Center back connection, panel mount

Outer scale psig	Scale Range Middle scale bar	Inner scale Mpa	Connection and Face Diameter	
			1/8 NPT male and 10-32 female 1.5"	
0 to 30	0 to 2	0 to 0.2	5PG-306-000 ** ●	
0 to 60	0 to 4	0 to 0.4	5PG-312-000 ** ●	
0 to 100	0 to 7	0 to 0.7	5PG-320-000 ** ●	

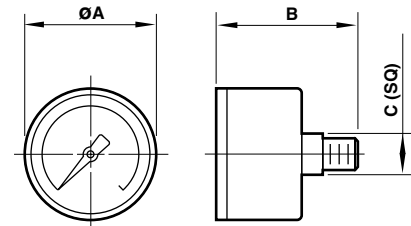
\*\* Requires 1.63" (41 mm) diameter panel hole.

Stainless Steel, center back connection, panel mount

Outer scale bar	Scale Range Inner scale psig	Inner scale Mpa	Connection and Face Diameter	
			1/8" PTF 1.5" dia.	1/4" PTF 1.5" dia.
0 to 6	0 to 84	n/a	-	18-013-913 ●
0 to 10	0 to 140	n/a	18-013-844 ●	18-013-909 ●

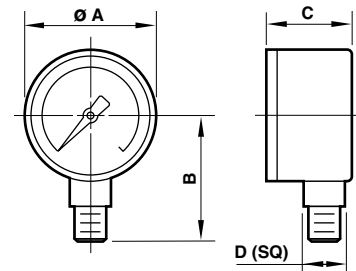
Outer scale psig	Scale Range Middle scale bar	Inner scale Mpa	Connection and Face Diameter	
			1/4" NPT 2.26" dia.	
0 to 160	0 to 11	0 to 1.1	18-013-917 ●	

- In stock
- ◆ Ships within one week



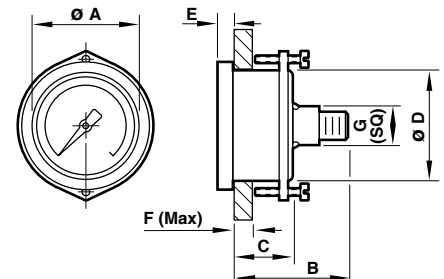
Dimensions (inches)

A	B	C
1.5	1.60	0.47
2.0	1.85	0.55



Dimensions (inches)

A	B	C	D
1.5	1.42	0.90	0.47
2.0	1.73	1.03	0.55



Dimensions (inches)

A	B	C	D	E	F (max)	G
1.5	1.51	0.86	1.61	0.18	0.5	0.55

**BG4200:**
**Bright chrome finish**
**Exhausts air when nozzle is blocked**
**Complies with O.S.H.A.**
**BG3200:**
**One piece design in molded high impact plastic**
**Exhausts air when nozzle is blocked**
**Complies with O.S.H.A.**

**Technical data**
**Medium:**

Non-lubricated compressed air, filtered

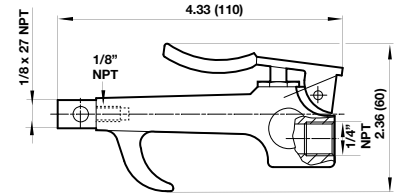
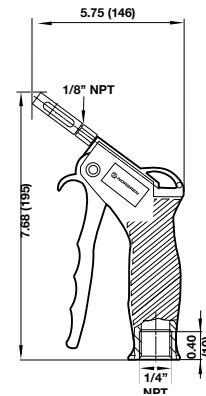
**Connection:**

1/4" PTF (BG4200 and BG3200)

**Operating pressure:**


145 psig (10 bar) maximum line pressure

NOTE: The USA O.S.H.A. recommendations state that nozzle pressures should not exceed 29 psig. This ensures that the blocked end condition pressure will not exceed the 5.8 psig that could penetrate human skin with possibly fatal consequences. Blow guns should always be supplied through a suitable pressure regulator to ensure safe operation


**BG4200**

**BG3200**

Dimensions in inches (mm)

**Models**

BG Series Model No.	Description	Port size PTF
 BG4200 ●	Metal blow gun	1/4"
 BG3200 ●	Plastic blow gun	1/4"

● In stock

◆ Ships within one week



# FITTINGS, TUBING & ACCESSORIES



IMI Precision Engineering offers one of the most comprehensive ranges of pneumatic fittings in the industry. Selecting the right fitting is critical to the application. The Pneufit and Fleetfit lines of Push-In-Fittings are an ideal match for the industry sectors we work with most; Food and Beverage, Industrial Automation, Rail, Commercial Vehicle, Energy and Life Science. Adding to the robust line of pneumatic fittings are a selection of flow controls, non-return valves, air fuses and different styles of tubing.

# Fast Find Guide

## PUSH-IN FITTINGS

**Pneufit®  
push-in fittings**

Ø 1/8" to 1/2"


**FIT-04**
**Pneufit C and M  
composite fittings**

Ø 1/8" to 1/2"


**FIT-08**
**Pneufit D fittings**

Ø 5/32" to 1/2"


**FIT-18**
**Pneufit®  
push-in fittings Metric**

Ø 4mm to 12 mm


**FIT-22**
**Pneufit C and M  
composite fittings  
Metric**

Ø 4mm to 12 mm


**FIT-26**
**Fleetfit® vehicle push-  
in fittings**

Ø 1/4" to 3/4"


**See CV-38**
*Moved to Section 7:  
Commercial Vehicle*

## MUFFLERS, SILENCERS, AND BREATHER VENTS

**MS series**

sintered bronze silencers


**FIT-30**
**Quietaire®**

Heavy duty mufflers


**FIT-30**
**C/S series**

porous plastic mufflers


**FIT-30**
**MQ series**

Plastic speed control


**FIT-30**
**Breather vents**

**FIT-31**
**Sintered bronze speed  
control**

**FIT-31**
**T20 series**

 High performance flow  
control muffler

**FIT-31**
**Stem silencers**

**FIT-31**

## FUNCTION FITTINGS AND FLOW CONTROLS

**Banjo flow controls**

 Pneufit push-in elbow banjo flow  
controls

**Fit-32**
**C20G series**

 Push-in non-return  
valves

**FIT-34**
**C24G and  
C24G3 series**

 In-line non-return  
valves

**FIT-35**
**T55, and T56  
series**

Non-return valves


**FIT-36**
**M/800 series**

 Heavy duty flow controls,  
uni-directional

**FIT-37**
**C20G series**

 Push-in flow controls,  
uni-directional

**Fit-38**
**T1000 series**

 Block form flow  
controls

**FIT-39**
**T60 series**

 In-line excess flow  
shut-off valves

**FIT-40**
**T65 series**

Shuttle valves

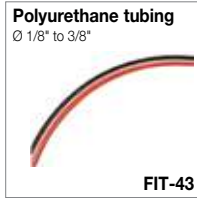

**FIT-41**
**T70 series**

Quick exhaust valves


**FIT-42**

# Fast Find Guide

## TUBING AND ACCESSORIES



For simple and quick assembly of pneumatic circuits.

Positive tube connection.

Wide range of types available.

Reliable and corrosion resistant.



### Technical data

#### Fluid:

Compressed air, nitrogen, inert and non-combustible gases compatible with materials of construction.

#### Note:

For other types of fluids or compressed gases, please consult factory.

#### Working Pressure:

29.5" Hg vacuum to 260 psig (750 mm Hg to 18 bar)

#### Note:

Flow Control working pressures: 5 to 150 psig (.3 to 10 bar)

#### Working Temperature:

-4° to 175°F (-20° to 80°C)

#### Materials

Body, swivel fitting and collet: Nickel plated brass  
 O-ring: Silicone free Nitrile  
 Sealing washer (parallel male threads): silicone free nitrile  
 Tubing: Nylon 11 or 12, Polyurethane (95 durometer or above) and LDPE (Low Density Polyethylene).

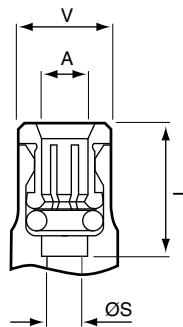
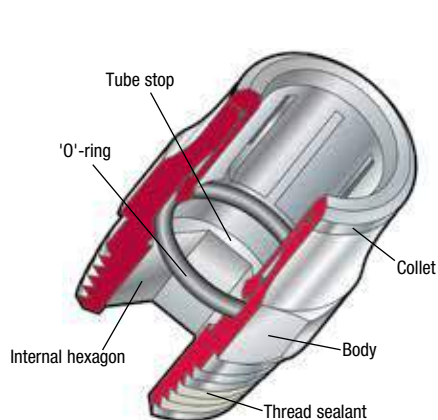
Note: Lower durometer polyurethane may be used, however, an internal tube support is required to prevent internal collapse of the tube wall.  
 Thread Sealant: Precote 5 thread sealant is factory applied to the circumference of tapered male threads.

### Recommended tightening torques

NPT or UNF Thread	Tightening torque ft lbs (Nm)
10-32 UNF	.75 – 1 (1-1.4)
1/8"	5.0 – 6.5 (6.9 – 8.8)
1/4"	8.7 – 10.1 (11.8 – 13.7)
3/8"	15.9 – 17.3 (21.6 – 23.5)
1/2"	20.2 – 21.7 (27.4 – 29.4)

### Tube O.D.'s and Tube Tolerances

Tube O.D.	O.D. Tube Tolerances	
	Nylon	Polyurethane
1/8" to 1/2"	+0.002" (+0.05 mm)	±0.005" (±0.12)

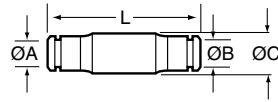


### Dimensions

A O.D. Tube	T S	Tubing Stop	V
1/8"	0.09 (2.3)	0.53	0.26
5/32" (4)	0.11 (2.8)	0.55	0.30
3/16"	0.13 (3.4)	0.59 (15.1)	0.38
1/4"	0.17	0.61	0.42
5/16"	0.24	0.65	0.51
3/8"	0.30 (7.6)	0.83	0.59 (15.1)
1/2"	0.38	0.96	0.71

● In stock  
 ◆ Ships within one week

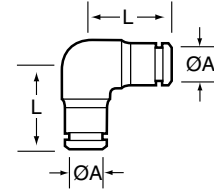
Dimensions in inches



**Pneufit Union**

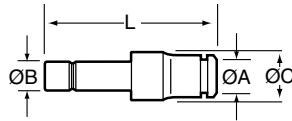
Part Number	A Tube O.D.	L	C
120200100	1/8"	1.15	0.35
120200200	5/32"	1.17	0.39
120200300	3/16"	1.26	0.43
120200400	1/4"	1.28	0.47
120200500	5/16"	1.35	0.55
120200600	3/8"	1.71	0.67
120200700	1/2"	1.98	0.81

\* Reducing union with 1/8" and 1/4" connections



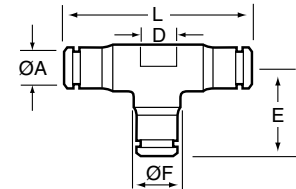
**Pneufit Union Elbow**

Part Number	A Tube O.D.	L
120400100	1/8"	0.65
120400200	5/32"	0.67
120400300	3/16"	0.72
120400400	1/4"	0.77
120400500	5/16"	0.84
120400600	3/8"	1.05
120400700	1/2"	1.25



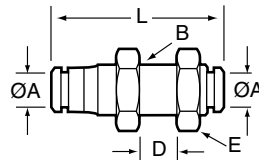
**Pneufit Tube End Expander/Reducer**

Part Number	A Tube O.D.	B Stem O.D.	L	C
120230201	1/8"	5/32"	1.22	0.35
120230401	1/8"	1/4"	1.30	0.35
120230402	5/32"	1/4"	1.34	0.39
120230602	5/32"	3/8"	1.22	0.47
120230403	3/16"	1/4"	1.38	0.43
120230504	1/4"	5/16"	1.46	0.47
120230604	1/4"	3/8"	1.50	0.47
120230704	1/4"	1/2"	1.38	0.55
120230705	5/16"	1/2"	1.65	0.55
120230706	3/8"	1/2"	1.97	0.67
<b>Expanding</b>				
120230104	1/4"	1/8"	1.34	0.47
120230204	1/4"	5/32"	1.38	0.47



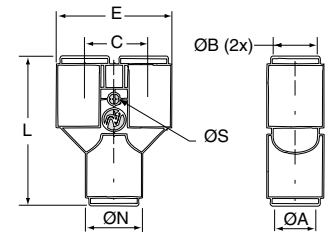
**Pneufit Union Tee**

Part Number	A Tube O.D.	C	D A/F	E	F	L
120600100	1/8"	0.26	0.20	0.63	0.32	1.26
120600200	5/32"	0.30	0.28	0.67	0.40	1.34
120600300	3/16"	0.38	0.28	0.72	0.44	1.44
120600400	1/4"	0.42	0.31	0.77	0.48	1.54
120600500	5/16"	0.50	0.43	0.84	0.56	1.68
120600600	3/8"	0.59	0.52	1.05	0.67	2.10
120600700	1/2"	0.71	0.63	1.25	0.81	2.50



**Pneufit Bulkhead Union**

Part Number	A Tube O.D.	B Metric Thread	Panel Hole ø	E A/F	D Max	L
120290100	1/8"	M10 x 1.0	0.42	0.55	0.47	1.15
120290200	5/32"	M10 x 1.0	0.42	0.55	0.47	1.18
120290300	3/16"	M12 x 1.0	0.49	0.67	0.55	1.26
120290400	1/4"	M14 x 1.5	0.57	0.75	0.59	1.38
120290500	5/16"	M16 x 1.5	0.65	0.87	0.63	1.42
120290600	3/8"	M20 x 1.5	0.81	1.06	0.55	1.69
120290700	1/2"	M24 x 1.5	0.96	1.18	0.59	1.97



**Pneufit Parallel Union "Y"**

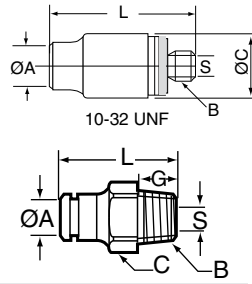
Part Number	A Tube O.D.	B Tube O.D.	C	ØD	E	L	ØN	ØS**
120820200	5/32"	5/32"	0.43	0.30	0.87	1.34	0.43	0.13
120820400	1/4"	1/4"	0.55	0.43	1.06	1.51	0.51	0.13
120820500	5/16"	5/16"	0.63	0.51	1.22	1.59	0.59	0.13

\*Body Material: Thermoplastic

\*\* Mounting hole

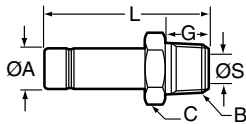
- In stock
- ◆ Ships within one week

Dimensions in inches



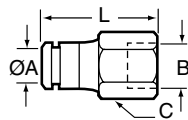
**Pneufit Male Adapter**

Part Number	A Tube O.D.	B NPT or UNF Thread	C A/F	G	L	S Hex
124250110	1/8"	10-32 UNF	0.35	0.20	0.79	3/32"
124250116	1/8"	1/16	3/8"	0.37	0.80	3/32"
124250118	1/8"	1/8	7/16"	0.37	0.67	3/32"
124250128	1/8"	1/4	9/16"	0.56	0.95	3/32"
124250210	5/32"	10-32 UNF	0.35	0.20	0.85	3/32"
124250218	5/32"	1/8	7/16"	0.37	0.89	1/8"
124250228	5/32"	1/4	9/16"	0.56	1.04	1/8"
124250318	3/16"	1/8	7/16"	0.37	0.96	5/32"
124250328	3/16"	1/4	9/16"	0.56	1.04	5/32"
124250410	1/4"	10-32 UNF	0.43	0.20	0.94	3/32"
124250418	1/4"	1/8	7/16"	0.37	0.98	5/32"
124250428	1/4"	1/4	9/16"	0.56	1.11	5/32"
124250438	1/4"	3/8	11/16"	0.56	1.07	3/16"
124250518	5/16"	1/8	1/2"	0.37	1.12	3/16"
124250528	5/16"	1/4	9/16"	0.56	1.23	1/4"
124250538	5/16"	3/8	11/16"	0.56	1.13	1/4"
124250618	3/8"	1/8	11/16"	0.37	1.32	3/16"
124250628	3/8"	1/4	11/16"	0.56	1.47	1/4"
124250638	3/8"	3/8	11/16"	0.56	1.41	5/16"
124250648	3/8"	1/2	7/8"	0.75	1.45	5/16"
124250728	1/2"	1/4	7/8"	0.56	1.67	1/4"
124250738	1/2"	3/8	7/8"	0.56	1.63	3/8"
124250748	1/2"	1/2	7/8"	0.75	1.70	3/8"



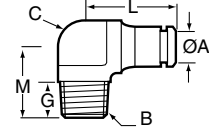
**Pneufit Stem Adapter**

Part Number	A Tube O.D.	B NPT Thread	C A/F	G	L	S Hex
124150418	1/4"	1/8	7/16"	0.37	1.33	0.16
124150428	1/4"	1/4	9/16"	0.56	1.11	5/32"



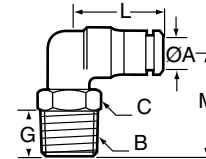
**Pneufit Female Adapter**

Part Number	A Tube O.D.	B NPT Thread	C A/F	L
124260118	1/8"	1/8	9/16"	1.14
124260128	1/8"	1/4	11/16"	1.38
124260218	5/32"	1/8	9/16"	1.14
124260228	5/32"	1/4	11/16"	1.42
124260418	1/4"	1/8	9/16"	1.19
124260428	1/4"	1/4	11/16"	1.46
124260518	5/16"	1/8	9/16"	1.23
124260528	5/16"	1/4	11/16"	1.50
124260628	3/8"	1/4	11/16"	1.66
124260638	3/8"	3/8	7/8"	1.70



**Pneufit Fixed Male Elbow**

Part Number	A Tube O.D.	B NPT Thread	C A/F	G	L	M
124450118	1/8"	1/8	0.28	0.37	0.67	0.66
124450218	5/32"	1/8	0.28	0.37	0.67	0.66
124450228	5/32"	1/4	0.43	0.56	0.72	0.92
124450318	3/16"	1/8	0.28	0.37	0.72	0.67
124450328	3/16"	1/4	0.43	0.56	0.79	0.92
124450418	1/4"	1/8	0.31	0.37	0.77	0.70
124450428	1/4"	1/4	0.43	0.56	0.79	0.92
124450438	1/4"	3/8	0.63	0.56	0.84	1.1
124450518	5/16"	1/8	0.43	0.37	0.84	0.74
124450528	5/16"	1/4	0.43	0.56	0.84	0.92
124450618	3/8"	1/8	0.52	0.37	1.05	0.8
124450628	3/8"	1/4	0.52	0.56	1.05	0.98
124450638	3/8"	3/8	0.63	0.56	1.05	1.1
124450648	3/8"	1/2	0.94	0.75	1.13	1.36
124450728	1/2"	1/4	0.63	0.56	1.25	1.03
124450738	1/2"	3/8	0.63	0.56	1.25	1.1
124450748	1/2"	1/2	0.94	0.75	1.25	1.36

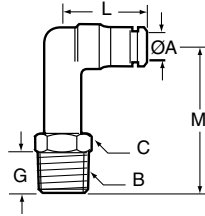


**Pneufit Swivel Male Elbow**

Part Number	A Tube O.D.	B NPT or UNF Thrd	C A/F	G	L	M
124470110	1/8"	10-32 UNF	5/16"	0.20	0.63	0.70
124470118	1/8"	1/8	7/16"	0.37	0.63	0.82
124470128	1/8"	1/4	9/16"	0.37	0.68	1.07
124470210	5/32"	10-32 UNF	5/16"	0.20	0.67	0.70
124470218	5/32"	1/8	7/16"	0.37	0.67	0.86
124470228	5/32"	1/4	9/16"	0.56	0.67	1.07
124470328	3/16"	1/4	9/16"	0.56	0.72	1.09
124470410	1/4"	10-32 UNF	5/16"	0.20	0.77	0.71
124470418	1/4"	1/8	7/16"	0.37	0.77	0.9
124470428	1/4"	1/4	9/16"	0.56	0.77	1.11
124470438	1/4"	3/8	3/4"	0.56	0.8	1.15
124470518	5/16"	1/8	9/16"	0.37	0.84	0.96
124470528	5/16"	1/4	9/16"	0.56	0.84	1.15
124470618	3/8"	1/8	9/16"	0.37	1.05	1.05
124470628	3/8"	1/4	11/16"	0.56	1.05	1.26
124470638	3/8"	3/8	3/4"	0.56	1.05	1.26
124470648	3/8"	1/2	7/8"	0.75	1.05	1.48
124470728	1/2"	1/4	3/4"	0.56	1.25	1.37
124470738	1/2"	3/8	3/4"	0.56	1.25	1.41
124470748	1/2"	1/2	7/8"	0.75	1.25	1.62

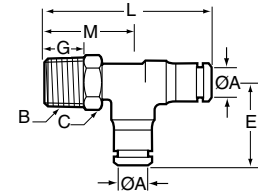
● In stock  
◆ Ships within one week

Dimensions in inches



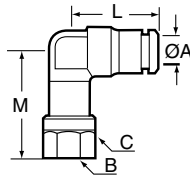
**Pneufit Extended Swivel Male Elbow**

Part Number	A Tube O.D.	B NPT Thread	C A/F	G	L	M
124540218 ●	5/32"	1/8	7/16"	0.37	0.67	1.39
124540418 ●	1/4"	1/8	9/16"	0.56	0.67	1.71
124540428 ●	1/4"	1/4	9/16"	0.56	0.77	1.75
124540628 ●	3/8"	1/4	11/16"	0.56	1.05	2.10
124540638 ●	3/8"	3/8	3/4"	0.56	1.05	2.10



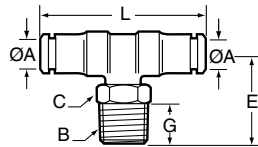
**Pneufit Swivel Male Side Tee**

Part Number	A Tube O.D.	B NPT or UNF Thrd	C A/F	G	L	M	E
124680118 ●	1/8"	1/8	7/16"	0.63	1.36	0.73	0.63
124680128 ●	1/8"	1/4	9/16"	0.67	1.44	0.77	0.67
124680210 ●	5/32"	10-32 UNF	5/16"	0.67	1.44	0.67	1.44
124680218 ●	5/32"	1/8	7/16"	0.67	1.52	0.86	0.67
124680418 ●	1/4"	1/8	7/16"	0.77	1.67	0.90	0.77
124680428 ●	1/4"	1/4	9/16"	0.77	1.88	1.11	0.77
124680438 ●	1/4"	3/8	3/4"	0.79	1.59	0.81	0.79
124680528 ●	5/16"	1/4	9/16"	0.84	1.98	1.15	1.98
124680618 ●	3/8"	1/8	9/16"	1.05	2.00	0.94	1.05
124680628 ●	3/8"	1/4	11/16"	1.05	2.31	1.26	1.05
124680638 ●	3/8"	3/8	3/4"	1.05	2.31	1.26	1.05
124680648 ●	3/8"	1/2	7/8"	1.05	2.53	1.48	1.05
124680748 ●	1/2"	1/2	7/8"	1.25	2.87	1.62	1.25



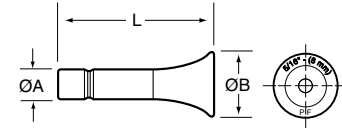
**Pneufit Swivel Female Elbow**

Part Number	A Tube O.D.	B NPT Thread	C A/F	L	M
124480118 ●	1/8"	1/8"	9/16"	0.63	1.09
124480218 ●	5/32"	1/8	9/16"	0.67	1.19
124480228 ●	5/32"	1/4	11/16"	0.67	1.40
124480418 ●	1/4"	1/8	9/16"	0.77	1.22
124480428 ●	1/4"	1/4	11/16"	0.77	1.44
124480738 ●	1/2"	3/8	7/8"	1.25	1.82



**Pneufit Swivel Male Tee**

Part Number	A Tube O.D.	B NPT or UNF Thrd	C A/F	G	L	E
124670118 ●	1/8"	1/8	7/16"	0.37	1.26	0.81
124670128 ●	1/8"	1/4	9/16"	0.56	1.34	1.07
124670210 ●	5/32"	10-32 UNF	5/16"	0.20	1.34	0.77
124670218 ●	5/32"	1/8	7/16"	0.37	1.33	0.86
124670228 ●	5/32"	1/4	9/16"	0.56	1.33	1.07
124670318 ●	3/16"	1/8	7/16"	0.37	1.45	0.88
124670418 ●	1/4"	1/8	7/16"	0.37	1.54	0.90
124670428 ●	1/4"	1/4	9/16"	0.56	1.54	1.12
124670438 ●	1/4"	3/8	3/4"	0.56	1.57	1.20
124670518 ●	5/16"	1/8	9/16"	0.37	1.68	0.96
124670528 ●	5/16"	1/4	9/16"	0.56	1.68	1.15
124670618 ●	3/8"	1/8	9/16"	0.37	2.10	0.66
124670628 ●	3/8"	1/4	11/16"	0.56	2.10	1.26
124670638 ●	3/8"	3/8	3/4"	0.56	2.10	1.26
124670648 ●	3/8"	1/2	7/8"	0.75	2.10	1.48
124670728 ●	1/2"	1/4	3/4"	0.56	2.50	1.37
124670738 ●	1/2"	3/8	3/4"	0.56	2.50	1.41
124670748 ●	1/2"	1/2	7/8"	0.75	2.50	1.62



**Pneufit Plug\***

Part Number	A Stem O.D.	ØB	L
120040100 ●	1/8"	0.34	1.02
120040400 ●	1/4"	0.46	1.12
120040600 ●	3/8"	0.61	1.34

\* Material: Nickel plated Brass

- In stock
- ◆ Ships within one week

Dimensions in inches

**Ready to use.**

**Releasable stainless-steel grab-ring to grip nylon or polyurethane tube (85 or 95 durometer).**

**Nickel plated brass components.**

**Pre applied thread sealant on all taper threads and recessed captive O-ring on parallel threads.**

**Internal and external hexagons on straight fittings.**

**Immediate quality sealing using silicone free U-packing.**

**Mounting holes on all union fittings.**


**Technical data**
**Medium:**

Compressed air

**Operating pressure:**

29.5" Hg vacuum up to 150 psi  
(750 mm Hg to 10 bar)

**Temperature:**

-4° to 140°F (-20° to 60°C)

**Tube types**

Nylon 11 or 12

Polyurethane 85 or 95 durometer

**Materials**

Body: PBT

Seals: NBR (silicone free)

u-packaging and O-rings

Threaded bodies:

nickel plated brass

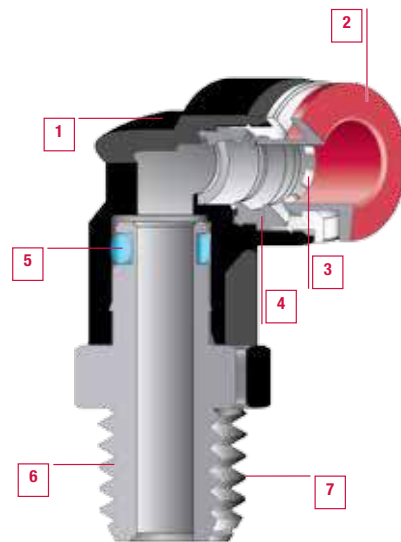
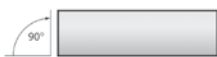
Release sleeve and backing ring:

POM

Grab-ring: stainless steel

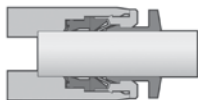
Collar: nickel plated brass

Thread sealant: Chemitech G-175L


**Method of assembly**


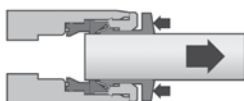
1. Ensure that the end tube is cut square and is free from burrs.

2. Push the tube through the release ring button and grab ring into the fitting.



3. Push the tube firmly through the 'O' ring until it bottoms on the tube stop, then pull back.

4. To disconnect, push the tube into the fitting, hold down the release button and withdraw the tube.



1 Impact resistant PBT body in black for Pneufit® C and light gray for Pneufit® M.

2 Release buttons are red for metric, grey for inch, and light grey oval for Pneufit® M.

3 Stainless steel grab ring with special design to retain softer tube and provide easy releasability.

4 Silicon free U-packing provides leak tight tube seal under side loading.

5 Stem seal provides leak tight 360° swivel connection.

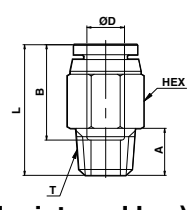
6 Nickel plated brass threads and notches on hex to signify NPT.

7 Pre-applied thread sealant on tapered threads and recessed captive O-ring on parallel threads.

● In stock  
◆ Ships within one week

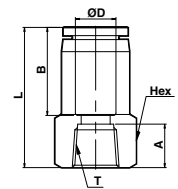
Dimensions in inches





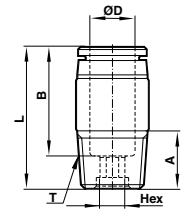
**Straight adapter (external + internal hex)**

Part Number	ØD O/D tube	T NPT or UNF Thread	L	A	B	Hex
C24250210	5/32	10/32 UNF	0.84	0.14	0.64	7/16
C24250218	5/32	1/8	0.77	0.33	0.64	7/16
C24250228	5/32	1/4	0.87	0.41	0.64	9/16
C24250238	5/32	3/8	0.90	0.45	0.64	11/16
C24250310	3/16	10/32 UNF	0.87	0.14	0.66	7/16
C24250318	3/16	1/8	0.91	0.33	0.66	7/16
C24250328	3/16	1/4	0.91	0.41	0.66	9/16
C24250338	3/16	3/8	0.95	0.45	0.66	11/16
C24250410	1/4	10/32 UNF	0.91	0.14	0.68	1/2
C24250418	1/4	1/8	0.94	0.33	0.68	1/2
C24250428	1/4	1/4	0.91	0.41	0.68	9/16
C24250438	1/4	3/8	0.95	0.45	0.68	11/16
C24250448	1/4	1/2	1.07	0.57	0.68	7/8
C24250518	5/16	1/8	1.11	0.33	0.72	9/16
C24250528	5/16	1/4	1.02	0.41	0.72	9/16
C24250538	5/16	3/8	1.04	0.45	0.72	11/16
C24250548	5/16	1/2	0.96	0.57	0.72	7/8
C24250618	3/8	1/8	1.19	0.33	0.78	11/16
C24250628	3/8	1/4	1.22	0.41	0.78	11/16
C24250638	3/8	3/8	0.98	0.45	0.78	11/16
C24250648	3/8	1/2	0.94	0.57	0.78	7/8
C24250718	1/2	1/8	1.31	0.33	0.91	7/8
C24250728	1/2	1/4	1.39	0.41	0.91	7/8
C24250738	1/2	3/8	1.26	0.45	0.91	7/8
C24250748	1/2	1/2	1.24	0.57	0.91	7/8



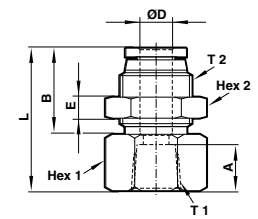
**Straight adapter (female thread)**

Part Number	ØD tube	T NPT Thread	L	A	B	Hex
C24260218	5/32	1/8	1.09	0.37	0.60	0.55
C24260228	5/32	1/4	1.17	0.45	0.60	0.69
C24260318	3/16	1/8	1.11	0.37	0.66	0.55
C24260328	3/16	1/4	1.19	0.45	0.66	0.69
C24260418	1/4	1/8	1.13	0.37	0.69	0.55
C24260428	1/4	1/4	1.21	0.45	0.69	0.67
C24260438	1/4	3/8	1.29	0.49	0.69	0.87
C24260518	5/16	1/8	1.14	0.37	0.74	0.55
C24260528	5/16	1/4	1.22	0.45	0.74	0.67
C24260538	5/16	3/8	1.26	0.49	0.74	0.87
C24260548	5/16	1/2	1.41	0.57	0.74	1.00
C24260618	3/8	1/8	1.25	0.37	0.80	0.69
C24260628	3/8	1/4	1.28	0.45	0.80	0.67
C24260638	3/8	3/8	1.34	0.49	0.80	0.87
C24260648	3/8	1/2	1.49	0.57	0.80	1.00
C24260728	1/2	1/4	1.43	0.45	0.87	0.67
C24260738	1/2	3/8	1.48	0.49	0.87	0.87



**Straight adapter (internal hex only)**

Part Number	ØD	T NPT or UNF Thread	L	A	B	Hex
C242A0210	5/32	10/32 UNF	0.82	0.14	0.60	0.09
C242A0218	5/32	1/8	0.83	0.33	0.60	0.13
C242A0228	5/32	1/4	0.87	0.41	0.60	0.13
C242A0310	3/16	10/32 UNF	0.88	0.14	0.67	0.09
C242A0318	3/16	1/8	0.89	0.33	0.67	0.13
C242A0328	3/16	1/4	0.93	0.41	0.67	0.13
C242A0410	1/4	10/32 UNF	0.90	0.14	0.69	0.09
C242A0418	1/4	1/8	0.93	0.33	0.69	0.19
C242A0428	1/4	1/4	0.94	0.41	0.69	0.19
C242A0518	5/16	1/8	1.08	0.33	0.74	0.16
C242A0528	5/16	1/4	1.00	0.41	0.74	0.24
C242A0538	5/16	3/8	1.00	0.45	0.74	0.24
C242A0618	3/8	1/8	1.13	0.33	0.80	0.25
C242A0628	3/8	1/4	1.11	0.41	0.80	0.25
C242A0638	3/8	3/8	1.11	0.45	0.80	0.31
C242A0648	3/8	1/2	1.15	0.57	0.80	0.31
C242A0728	1/2	1/4	1.39	0.41	0.87	0.37
C242A0738	1/2	3/8	1.30	0.45	0.87	0.37
C242A0748	1.2	1/2	1.30	0.57	0.87	0.37

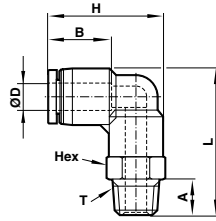


**Female bulkhead**

Part Number	ØD tube	T1 NPT Thread	L	E	T2	A	Hex1	B	Hex2
C24320218	5/32	1/8	1.07	0.20	M12x1.0p	0.35	14x16.1	0.64	14x16.1
C24320418	1/4	1/8	1.22	0.20	M14x1.0p	0.37	17x19.6	0.69	17x19.6
C24320428	1/4	1/4	1.22	0.20	M14x1.0p	0.45	17x19.6	0.69	17x19.6
C24320628	3/8	1/4	1.31	0.20	M20x1.0p	0.45	24x27.7	0.80	24x27.7
C24320638	3/8	3/8	1.35	0.20	M20x1.0p	0.49	24x27.7	0.80	24x27.7
C24320728	1/2	1/4	1.54	0.20	M22x1.0p	0.49	26x30.0	0.87	24x27.7
C24320738	1/2	3/8	1.54	0.20	M22x1.0p	0.49	26x30.0	0.87	24x27.7
C24320748	1/2	1/2	1.61	0.20	M22x1.0p	0.57	26x30.0	0.87	24x27.7

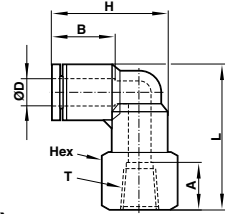
- In stock
- ◆ Ships within one week

Dimensions in inches



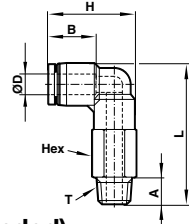
**90° Swivel elbow**

Part Number	ØD	T NPT or UNF Thread	D	L	H	A	B	Hex
C24470210	5/32	10/32 UNF	0.41	0.84	0.73	0.14	0.64	3/8
C24470218	5/32	1/8	0.41	0.98	0.73	0.33	0.64	7/16
C24470228	5/32	1/4	0.41	1.10	0.73	0.41	0.64	9/16
C24470310	3/16	10/32 UNF	0.45	0.92	0.75	0.14	0.66	7/16
C24470318	3/16	1/8	0.45	0.98	0.75	0.33	0.66	7/16
C24470328	3/16	1/4	0.45	1.10	0.75	0.41	0.66	9/16
C24470338	3/16	3/8	0.45	1.14	0.75	0.45	0.66	11/16
C24470410	1/4	10/32 UNF	0.51	1.02	0.80	0.14	0.68	1/2
C24470418	1/4	1/8	0.51	1.09	0.80	0.33	0.68	1/2
C24470428	1/4	1/4	0.51	1.20	0.80	0.41	0.68	9/16
C24470438	1/4	3/8	0.51	1.24	0.80	0.45	0.68	11/16
C24470518	5/16	1/8	0.57	1.16	0.88	0.33	0.72	9/16
C24470528	5/16	1/4	0.57	1.24	0.88	0.41	0.72	9/16
C24470538	5/16	3/8	0.57	1.28	0.88	0.45	0.72	11/16
C24470548	5/16	1/2	0.57	1.39	0.88	0.57	0.72	7/8
C24470618	3/8	1/8	0.69	1.18	0.94	0.33	0.78	11/16
C24470628	3/8	1/4	0.69	1.28	0.94	0.41	0.78	11/16
C24470638	3/8	3/8	0.69	1.30	0.94	0.45	0.78	11/16
C24470648	3/8	1/2	0.69	1.42	0.94	0.57	0.78	7/8
C24470728	1/2	1/4	0.83	1.40	1.12	0.41	0.91	3/4
C24470738	1/2	3/8	0.83	1.44	1.12	0.45	0.91	3/4
C24470748	1/2	1/2	0.83	1.56	1.12	0.57	0.91	7/8



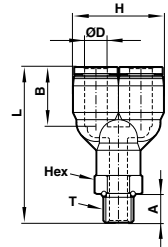
**90° Swivel elbow adapter (female)**

Part Number	ØD	T NPT or UNF Thread	D	L	H	A	B	Hex
C24480210	5/32	10/32 UNF	0.41	0.85	0.73	0.28	0.64	0.39
C24480218	5/32	1/8	0.41	0.89	0.73	0.35	0.64	0.55
C24480228	5/32	1/4	0.41	0.89	0.73	0.35	0.64	0.69
C24480310	3/16	10/32 UNF	0.45	0.81	0.75	0.28	0.66	0.43
C24480318	3/16	1/8	0.45	0.89	0.75	0.35	0.66	0.55
C24480328	3/16	1/4	0.45	0.89	0.75	0.35	0.66	0.69
C24480410	1/4	10/32 UNF	0.51	0.83	0.80	0.20	0.68	0.50
C24480418	1/4	1/8	0.51	0.98	0.80	0.35	0.68	0.55
C24480428	1/4	1/4	0.51	1.06	0.80	0.43	0.68	0.69
C24480438	1/4	3/8	0.51	1.10	0.80	0.47	0.68	0.87
C24480518	5/16	1/8	0.57	1.02	0.88	0.35	0.72	0.55
C24480528	5/16	1/4	0.57	1.10	0.88	0.43	0.72	0.69
C24480538	5/16	3/8	0.57	1.14	0.88	0.47	0.72	0.87
C24480628	3/8	1/4	0.69	1.12	0.94	0.43	0.78	0.69
C24480638	3/8	3/8	0.69	1.16	0.94	0.47	0.78	0.87
C24480648	3/8	1/2	0.69	1.30	0.94	0.57	0.78	0.96
C24480738	1/2	3/8	0.83	1.30	1.12	0.47	0.91	0.87
C24480748	1/2	1/2	0.83	1.44	1.12	0.57	0.91	0.96



**90° Swivel elbow adapter (extended)**

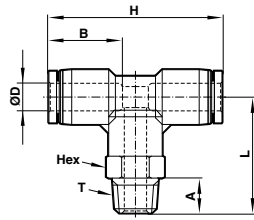
Part Number	ØD	T NPT or UNF Thread	D	L	H	A	B	Hex
C24540210	5/32	10/32 UNF	0.41	1.28	0.73	0.14	0.64	3/8
C24540218	5/32	1/8	0.41	1.40	0.73	0.33	0.64	7/16
C24540228	5/32	1/4	0.41	1.52	0.73	0.41	0.64	9/16
C24540318	3/16	1/8	0.45	1.38	0.75	0.33	0.66	7/16
C24540328	3/16	1/4	0.45	1.52	0.75	0.41	0.66	9/16
C24540338	3/16	3/8	0.45	1.52	0.75	0.45	0.66	11/16
C24540410	1/4	10/32 UNF	0.51	1.48	0.80	0.14	0.68	1/2
C24540418	1/4	1/8	0.51	1.63	0.80	0.33	0.68	1/2
C24540428	1/4	1/4	0.51	1.73	0.80	0.41	0.68	9/16
C24540438	1/4	3/8	0.51	1.77	0.80	0.45	0.68	11/16
C24540518	5/16	1/8	0.57	1.75	0.88	0.33	0.72	9/16
C24540528	5/16	1/4	0.57	1.83	0.88	0.41	0.72	9/16
C24540538	5/16	3/8	0.57	1.98	0.88	0.45	0.72	11/16
C24540618	3/8	1/8	0.69	1.89	0.94	0.33	0.78	11/16
C24540628	3/8	1/4	0.69	1.97	0.94	0.41	0.78	11/16
C24540638	3/8	3/8	0.69	2.01	0.94	0.45	0.78	11/16
C24540648	3/8	1/2	0.69	2.13	0.94	0.57	0.78	7/8
C24540728	1/2	1/4	0.83	2.26	1.12	0.41	0.91	3/4
C24540738	1/2	3/8	0.83	2.30	1.12	0.45	0.91	3/4
C24540748	1/2	1/2	0.83	2.42	1.12	0.57	0.91	7/8



**Swivel Y adapter**

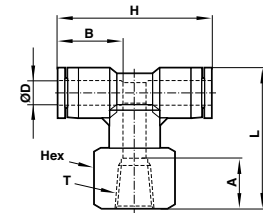
Part	ØD	T NPT or UNF Thread	D	L	H	A	B	Hex
C24880210	5/32	10/32 UNF	0.41	1.50	0.83	0.14	0.64	3/8
C24880218	5/32	1/8	0.41	1.64	0.83	0.33	0.64	7/16
C24880228	5/32	1/4	0.41	1.76	0.83	0.41	0.64	9/16
C24880310	3/16	10/32 UNF	0.45	1.65	0.91	0.14	0.66	7/16
C24880318	3/16	1/8	0.45	1.79	0.91	0.33	0.66	7/16
C24880328	3/16	1/4	0.45	1.91	0.91	0.41	0.66	9/16
C24880338	3/16	3/8	0.45	1.94	0.91	0.45	0.66	11/16
C24880410	1/4	10/32 UNF	0.51	1.80	1.02	0.14	0.68	1/2
C24880418	1/4	1/8	0.51	1.88	1.02	0.33	0.68	1/2
C24880428	1/4	1/4	0.51	1.98	1.02	0.41	0.68	9/16
C24880438	1/4	3/8	0.51	2.02	1.02	0.45	0.68	11/16
C24880518	5/16	1/8	0.57	1.85	1.14	0.33	0.72	9/16
C24880528	5/16	1/4	0.57	1.93	1.14	0.41	0.72	9/16
C24880538	5/16	3/8	0.57	1.97	1.14	0.45	0.72	11/16
C24880548	5/16	1/2	0.57	2.09	1.14	0.57	0.72	7/8
C24880618	3/8	1/8	0.69	2.07	1.38	0.33	0.78	11/16
C24880628	3/8	1/4	0.69	2.15	1.38	0.41	0.78	11/16
C24880638	3/8	3/8	0.69	2.19	1.38	0.45	0.78	11/16
C24880648	3/8	1/2	0.69	2.31	1.38	0.57	0.78	7/8
C24880728	1/2	1/4	0.83	2.54	1.65	0.41	0.91	3/4
C24880738	1/2	3/8	0.83	2.58	1.65	0.45	0.91	3/4
C24880748	1/2	1/2	0.83	2.70	1.65	0.57	0.91	7/8

Dimensions in inches



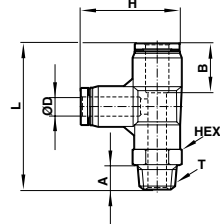
Swivel tee adapter

Part Number	ØD	T NPT or UNF Thread	D	L	H	A	B	Hex
C24670210	5/32	10/32 UNF	0.41	0.84	1.46	0.14	0.64	3/8
C24670218	5/32	1/8	0.41	0.98	1.46	0.33	0.64	7/16
C24670228	5/32	1/4	0.41	1.10	1.46	0.41	0.64	9/16
C24670310	3/16	10/32 UNF	0.45	0.92	1.50	0.14	0.66	7/16
C24670318	3/16	1/8	0.45	0.98	1.50	0.33	0.66	7/16
C24670328	3/16	1/4	0.45	1.10	1.50	0.41	0.66	9/16
C24670338	3/16	3/8	0.45	1.14	1.50	0.45	0.66	11/16
C24670410	1/4	10/32 UNF	0.51	1.02	1.61	0.14	0.68	1/2
C24670418	1/4	1/8	0.51	1.09	1.61	0.33	0.68	1/2
C24670428	1/4	1/4	0.51	1.20	1.61	0.41	0.68	9/16
C24670438	1/4	3/8	0.51	1.24	1.61	0.45	0.68	11/16
C24670518	5/16	1/8	0.57	1.16	1.72	0.33	0.72	9/16
C24670528	5/16	1/4	0.57	1.24	1.72	0.41	0.72	9/16
C24670538	5/16	3/8	0.57	1.28	1.72	0.45	0.72	11/16
C24670548	5/16	1/2	0.57	1.39	1.72	0.57	0.72	7/8
C24670618	3/8	1/8	0.69	1.18	1.88	0.33	0.78	11/16
C24670628	3/8	1/4	0.69	1.26	1.88	0.41	0.78	11/16
C24670638	3/8	3/8	0.69	1.30	1.88	0.45	0.78	11/16
C24670648	3/8	1/2	0.69	1.42	1.88	0.57	0.78	7/8
C24670728	1/2	1/4	0.83	1.40	2.22	0.41	0.91	3/4
C24670738	1/2	3/8	0.83	1.44	2.22	0.45	0.91	3/4
C24670748	1/2	1/2	0.83	1.56	2.22	0.57	0.91	7/8



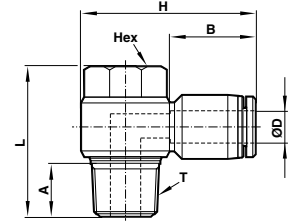
Swivel tee adapter

Part Number	ØD	T NPT or UNF Thrd	D	L	H	A	B	Hex
C246C0218	5/32	1/8	0.41	0.89	1.46	0.35	0.64	0.55
C246C0318	3/16	1/8	0.45	0.89	1.50	0.35	0.66	0.55
C246C0328	3/16	1/4	0.45	0.89	1.50	0.35	0.66	0.69
C246C0418	1/4	1/8	0.51	0.98	1.61	0.35	0.68	0.55
C246C0428	1/4	1/4 UNF	0.51	1.06	1.61	0.43	0.68	0.69
C246C0518	5/16	1/8	0.57	1.02	1.72	0.35	0.72	0.55
C246C0528	5/16	1/4	0.57	1.10	1.72	0.43	0.72	0.69
C246C0538	5/16	3/8	0.57	1.14	1.72	0.47	0.72	0.87
C246C0628	3/8	1/4	0.69	1.12	1.88	0.43	0.78	0.69
C246C0638	3/8	3/8	0.69	1.16	1.88	0.47	0.78	0.87
C246C0738	1/2	3/8	0.83	1.30	2.22	0.47	0.91	0.87
C246C0748	1/2	1/2	0.83	1.44	2.22	0.57	0.91	0.96



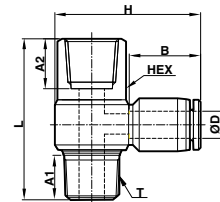
Swivel side tee adapter

Part Number	ØD	T NPT or UNF Thread	D	L	H	A	B	Hex
C24680210	5/32	10/32 UNF	0.41	1.66	0.98	0.14	0.64	3/8
C24680218	5/32	1/8	0.41	1.80	0.98	0.33	0.64	7/16
C24680228	5/32	1/4	0.41	1.92	0.98	0.41	0.64	9/16
C24680310	3/16	10/32 UNF	0.45	1.63	0.99	0.14	0.66	7/16
C24680318	3/16	1/8	0.45	1.78	0.99	0.33	0.66	7/16
C24680328	3/16	1/4	0.45	1.89	0.99	0.41	0.66	9/16
C24680338	3/16	3/8	0.45	1.93	0.99	0.45	0.66	11/16
C24680410	1/4	10/32 UNF	0.51	1.87	1.10	0.14	0.68	1/2
C24680418	1/4	1/8	0.51	1.94	1.10	0.33	0.68	1/2
C24680428	1/4	1/4	0.51	2.05	1.10	0.41	0.68	9/16
C24680438	1/4	3/8	0.51	2.09	1.10	0.45	0.68	11/16
C24680518	5/16	1/8	0.57	2.11	1.22	0.33	0.72	9/16
C24680528	5/16	1/4	0.57	2.19	1.22	0.41	0.72	9/16
C24680538	5/16	3/8	0.57	2.23	1.22	0.45	0.72	11/16
C24680548	5/16	1/2	0.57	2.35	1.22	0.57	0.72	7/8
C24680618	3/8	1/8	0.69	2.49	1.37	0.33	0.78	11/16
C24680628	3/8	1/4	0.69	2.57	1.37	0.41	0.78	11/16
C24680638	3/8	3/8	0.69	2.61	1.37	0.45	0.78	11/16
C24680648	3/8	1/2	0.69	2.73	1.37	0.57	0.78	7/8
C24680728	1/2	1/4	0.83	2.26	1.61	0.41	0.91	3/4
C24680738	1/2	3/8	0.83	2.30	1.61	0.45	0.91	3/4
C24680748	1/2	1/2	0.83	2.41	1.61	0.57	0.91	7/8



Banjo

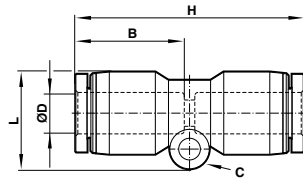
Part	L	T NPT or UNF Thread	H	ØD	B	A	Hex
C2R510210	0.72	10/32 UNF	0.99	5/32	0.64	0.14	0.31
C2R510218	0.98	1/8	1.20	5/32	0.64	0.31	0.43
C2R510410	0.72	10/32 UNF	1.13	1/4	0.69	0.14	0.31
C2R510418	0.98	1/8	1.26	1/4	0.69	0.31	0.43
C2R510428	1.13	1/4	1.41	1/4	0.69	0.39	0.59
C2R510518	0.98	1/8	1.30	5/16	0.74	0.31	0.43
C2R510528	1.13	1/4	1.45	5/16	0.74	0.39	0.59
C2R510628	1.13	1/4	1.48	3/8	0.80	0.39	0.59
C2R510638	1.33	3/8	1.66	3/8	0.80	0.43	0.75
C2R510648	1.55	1/2	1.86	3/8	0.80	0.55	0.94
C2R510738	1.33	3/8	1.78	1/2	0.87	0.43	0.75
C2R510748	1.55	1/2	1.99	1/2	0.87	0.55	0.94



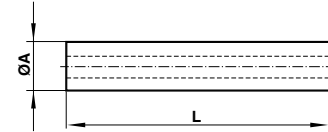
Banjo with top port

Part Number	L	T NPT or UNF Thread	H	ØD	B	A1	A2	Hex
C2E510218	1.22	1/8	1.21	5/32	0.64	0.33	0.33	9/16
C2D510410	0.79	10/32 UNF	1.13	1/4	0.52	0.14	0.24	5/16
C2E510418	1.22	1/8	1.26	1/4	0.69	0.33	0.33	9/16
C2F510428	1.41	1/4	1.41	1/4	0.69	0.41	0.43	11/16
C2F510528	1.41	1/4	1.48	5/16	0.75	0.41	0.43	11/16
C2F510628	1.41	1/4	1.58	3/8	0.80	0.41	0.43	11/16
C2G510638	1.61	3/8	1.66	3/8	0.78	0.45	0.51	7/8
C2G510738	1.61	3/8	1.78	1/2	0.87	0.45	0.51	7/8

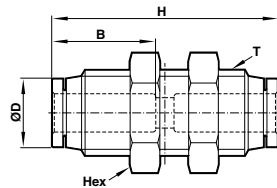
Dimensions in inches


**Straight union**

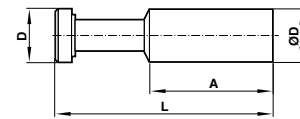
Part Number	ØD	H	L	C	B	D
C20200200 ●	5/32	1.36	0.50	0.13	0.64	0.41
C20200300 ●	3/16	1.40	0.59	0.14	0.66	0.45
C20200400 ●	1/4	1.45	0.64	0.14	0.69	0.51
C20200500 ●	5/16	1.55	0.78	0.17	0.74	0.57
C20200600 ●	3/8	1.68	0.85	0.18	0.80	0.69
C20200700 ●	1/2	1.93	0.96	0.18	0.87	0.83


**Stem union**

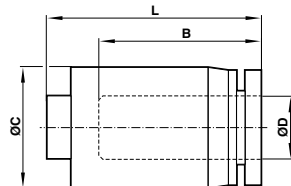
Part Number	ØA	L
C20220200 ●	5/32	1.42
C20220300 ●	3/16	1.50
C20220400 ●	1/4	1.57
C20220500 ●	5/16	1.65
C20220600 ●	3/8	1.77
C20220700 ●	1/2	1.97


**Bulkhead union**

Part Number	ØD	H	B	T	Hex
C20290200 ●	5/32	1.40	0.64	M12*1.0p	5
C20290300 ●	3/16	1.44	0.66	M14*1.0p	5
C20290400 ●	1/4	1.53	0.69	M14*1.0p	5
C20290500 ●	5/16	1.66	0.74	M16*1.0p	5
C20290600 ●	3/8	1.70	0.80	M20*1.0p	5
C20290700 ●	1/2	1.95	0.87	M22*1.0p	5


**Plug**

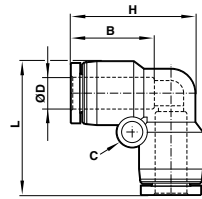
Part Number	ØD	D	A	L
C00040400 ●	5/32	5/32	0.71	1.18
C20040300 ●	3/16	3/16	0.75	1.30
C20040400 ●	1/4	1/4	0.79	1.34
C20040600 ●	3/8	3/8	1.02	1.65
C20040700 ●	1/2	1/2	1.10	1.81


**Cap (female plug)**

Part Number	ØD	B	ØC	L
C20120200 ●	5/32	0.64	0.41	0.74
C20120300 ●	3/16	0.66	0.45	0.74
C20120400 ●	1/4	0.69	0.51	0.78
C20120500 ●	5/16	0.74	0.57	0.85
C20120600 ●	3/8	0.80	0.69	0.90
C20120700 ●	1/2	0.87	0.83	1.02

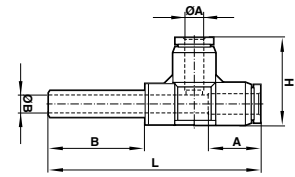
● In stock  
 ◆ Ships within one week

Dimensions in inches



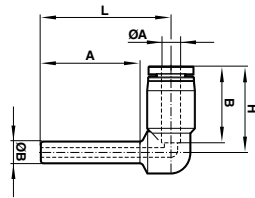
Union elbow

Part Number	ØD	H	L	C	B	D
C20400200	5/32	0.95	0.95	0.13	0.64	0.41
C20400300	3/16	1.00	1.00	0.14	0.66	0.45
C20400400	1/4	1.09	1.09	0.14	0.69	0.51
C20400500	5/16	1.21	1.21	0.17	0.74	0.57
C20400600	3/8	1.36	1.36	0.18	0.80	0.69
C20400700	1/2	1.61	1.61	0.18	0.87	0.83



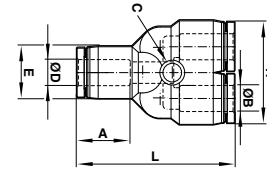
Stem side tee

Part Number	ØA	ØB	A	L	H	B
C20640200	5/32	5/32	0.94	2.29	0.98	0.64
C20640300	3/16	3/16	0.94	2.27	0.99	0.66
C20640400	1/4	1/4	0.98	2.46	1.10	0.69
C20640500	5/16	5/16	1.02	2.65	1.22	0.74
C20640600	3/8	3/8	1.10	2.87	1.37	0.80
C20640700	1/2	1/2	1.18	3.22	1.61	0.87



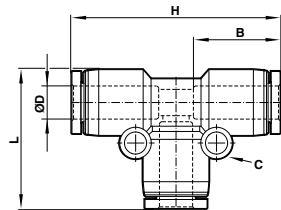
Stem elbow

Part Number	ØA	ØB	H	B	L	A
C20430200	5/32	5/32	0.74	0.64	1.48	0.94
C20430300	3/16	3/16	0.75	0.66	1.48	0.94
C20430400	1/4	1/4	0.81	0.69	1.61	0.98
C20430500	5/16	5/16	0.89	0.74	1.69	1.02
C20430600	3/8	3/8	0.94	0.80	1.80	1.10
C20430700	1/2	1/2	1.11	0.87	2.03	1.18



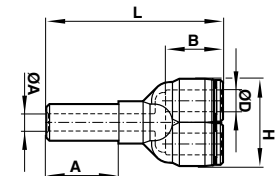
Union Y

Part Number	ØD	H	L	B	E	C
C20820200	5/32	0.83	1.46	0.64	0.41	0.13
C20820300	3/16	0.91	1.46	0.66	0.45	0.13
C20820400	1/4	1.02	1.57	0.69	0.51	0.13
C20820500	5/16	1.14	1.71	0.74	0.57	0.17
C20820600	3/8	1.38	1.88	0.77	0.69	0.17
C20820700	1/2	1.65	2.15	0.87	0.83	0.18



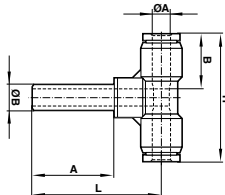
Union tee

Part Number	ØD	H	L	C	B
C20600200	5/32	1.44	0.95	0.13	0.64
C20600300	3/16	1.56	1.00	0.14	0.66
C20600400	1/4	1.68	1.09	0.14	0.69
C20600500	5/16	1.77	1.21	0.17	0.74
C20600600	3/8	2.03	1.36	0.18	0.80
C20600700	1/2	2.38	1.61	0.18	0.87



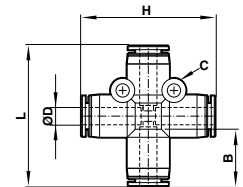
Stem Y

Part Number	ØA	ØD	A	L	H	B
C20840202	5/32	5/32	0.94	2.13	0.83	0.64
C20840300	3/16	3/16	0.94	2.28	0.91	0.66
C20840404	1/4	1/4	0.98	2.40	1.14	0.69
C20840505	5/16	5/16	1.02	2.38	1.14	0.74
C20840600	3/8	3/8	1.10	2.70	1.38	0.80
C20840700	1/2	1/2	1.18	3.17	1.61	0.87



Stem tee

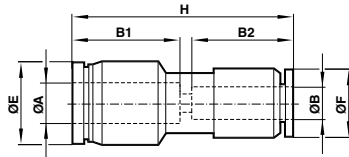
Part Number	ØA	ØB	A	L	H	B
C20630200	5/32	5/32	0.94	1.48	1.46	0.64
C20630300	3/16	3/16	0.94	1.48	1.50	0.66
C20630400	1/4	1/4	0.98	1.61	1.61	0.69
C20630500	5/16	5/16	1.02	1.69	1.72	0.74
C20630600	3/8	3/8	1.13	1.80	1.88	0.80
C20630700	1/2	1/2	1.18	2.03	2.22	0.87



Union cross

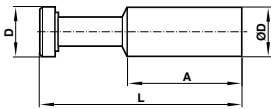
Part Number	ØD	C	H	L	B
C20900200	5/32	0.13	1.44	1.49	0.64
C20900300	3/16	0.13	1.54	1.54	0.66
C20900400	1/4	0.13	1.68	1.68	0.69
C20900500	5/16	0.17	1.77	1.84	0.74
C20900600	3/8	0.17	1.90	1.99	0.79
C20900700	1/2	0.17	2.38	2.38	0.87

Dimensions in inches



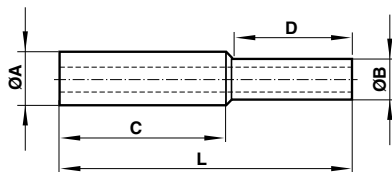
**Straight union (unequal)**

Part Number	ØA	ØB	H	B1	B2	ØE	ØF
C20200302	3/16	5/32	1.38	0.66	0.64	0.45	0.41
C20200402	1/4	5/32	1.40	0.69	0.64	0.51	0.41
C20200403	1/4	3/16	1.43	0.69	0.66	0.51	0.45
C20200504	5/16	1/4	1.50	0.74	0.69	0.57	0.51
C20200604	3/8	1/4	1.56	0.80	0.69	0.69	0.51
C20200605	3/8	5/16	1.61	0.80	0.74	0.69	0.57
C20200706	1/2	3/8	1.78	0.87	0.80	0.83	0.69



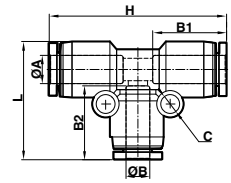
**Stem Reducer (stem/tube)**

Part Number	ØD2	ØD1	A	L	B
C20230402	1/4	5/32	0.93	1.59	0.64
C20230504	5/16	1/4	1.17	1.89	0.69
C20230604	3/8	1/4	1.23	1.89	0.69
C20230605	3/8	5/16	0.98	1.76	0.74
C20230704	1/2	1/4	1.22	1.90	0.69
C20230706	1/2	3/8	1.25	2.04	0.80



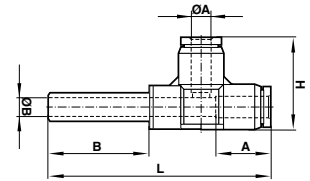
**Stem Union (unequal)**

Part Number	ØA	ØB	C	D	L
C20220302	3/16	5/32	0.79	0.79	1.57
C20220402	1/4	5/32	0.83	0.79	1.61
C20220403	1/4	3/16	0.83	0.79	1.61
C20220504	5/16	1/4	0.87	0.83	1.69
C20220604	3/8	1/4	0.91	0.83	1.73
C20220605	3/8	5/16	0.91	0.87	1.77
C20220706	1/2	3/8	0.98	0.91	1.89



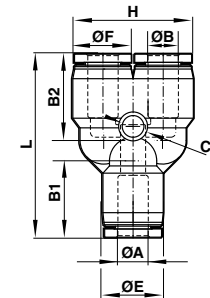
**Union Tee (unequal)**

Part Number	ØA	ØB	B1	B2	C	L	H
C206A0402	1/4	5/32	0.69	0.64	0.14	1.05	1.60
C206A0504	5/16	1/4	0.74	0.69	0.14	1.12	1.70
C206A0604	3/8	1/4	0.80	0.69	0.18	1.27	1.91
C206A0605	3/8	5/16	0.80	0.74	0.18	1.32	1.99
C206A0704	1/2	1/4	0.87	0.69	0.18	1.68	2.38
C206A0706	1/2	3/8	0.87	0.80	0.18	1.45	2.30



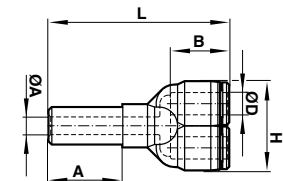
**Stem Side Tee (unequal)**

Part Number	ØA	ØB	A	L	H	B
C20640402	1/4	5/32	0.98	2.33	0.98	0.64
C20640504	5/16	1/4	1.02	2.50	1.10	0.69
C20640604	3/8	1/4	1.10	2.59	1.10	0.69
C20640605	3/8	5/16	1.10	2.74	1.22	0.74



**Union Y (unequal)**

Part Number	ØA	ØB	L	H	B1	B2	ØE	ØF	C
C20820302	3/16	5/32	1.46	0.83	0.66	0.64	0.45	0.41	0.13
C20820402	1/4	5/32	1.50	0.83	0.69	0.64	0.51	0.41	0.13
C20820403	1/4	3/16	1.52	0.91	0.69	0.66	0.51	0.45	0.13
C20820504	5/16	1/4	1.66	1.02	0.74	0.69	0.57	0.51	0.13
C20820604	3/8	1/4	1.70	1.02	0.77	0.69	0.69	0.51	0.13
C20820605	3/8	5/16	1.70	1.14	0.77	0.74	0.69	0.57	0.17
C20820706	1/2	3/8	2.00	1.38	0.87	0.80	0.83	0.69	0.14

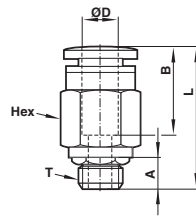


**Stem Y (unequal)**

Part number	ØA	ØB	A	L	H	B
C20840402	1/4	5/32	0.98	2.17	0.83	0.64
C20840504	5/16	1/4	1.02	2.44	1.14	0.69
C20840604	3/8	1/4	1.10	2.53	1.38	0.69
C20840605	3/8	5/16	1.10	2.47	1.38	0.74

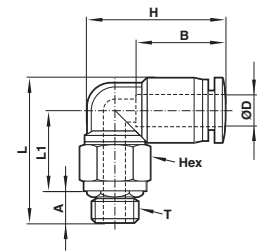
● In stock  
◆ Ships within one week

Dimensions in inches



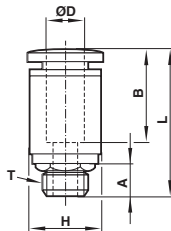
**Straight adapter (external + internal hex)**

Part Number	ØD	T NPT or UNF Thread	A	L	B	Hex
M24250110	1/8	10/32 UNF	0.18	0.70	0.44	0.31
M24250116	1/8	1/16	0.31	0.65	0.44	0.31
M24250118	1/8	1/8	0.33	0.69	0.44	0.44
M24250128	1/8	1/4	0.41	0.85	0.44	0.56
M24250210	5/32	10/32 UNF	0.18	0.72	0.46	0.31
M24250216	5/32	1/16	0.31	0.71	0.46	0.31
M24250218	5/32	1/8	0.33	0.73	0.46	0.44
M24250410	1/4	10/32 UNF	0.16	0.76	0.51	0.44
M24250416	1/4	1/16	0.31	0.87	0.51	0.44
M24250418	1/4	1/8	0.33	0.77	0.51	0.44



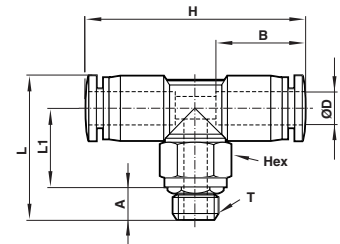
**90° Swivel Elbow Adapter**

Part Number	ØD	T NPT or UNF Thread	A	L1	L	H	B	Hex
M24470110	1/8	10/32 UNF	0.14	0.51	0.80	0.68	0.44	0.31
M24470116	1/8	1/16	0.31	0.48	0.86	0.68	0.44	0.31
M24470118	1/8	1/8	0.33	0.48	0.91	0.68	0.44	0.43
M24470128	1/8	1/4	0.41	0.43	0.99	0.68	0.44	0.55
M24470210	5/32	10/32 UNF	0.14	0.51	0.82	0.72	0.46	0.31
M24470216	5/32	1/16	0.31	0.48	0.88	0.72	0.46	0.31
M24470218	5/32	1/8	0.33	0.48	0.93	0.72	0.46	0.43
M24470410	1/4	10/32 UNF	0.14	0.57	0.93	0.79	0.53	0.31
M24470416	1/4	1/16	0.31	0.46	0.99	0.79	0.53	0.31
M24470418	1/4	1/8	0.33	0.49	1.04	0.79	0.53	0.43



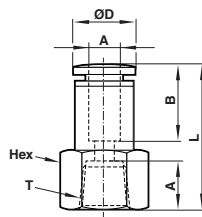
**Straight adapter (internal hex only)**

Part Number	ØD	T NPT or UNF Thread	A	L	B	ØH	Hex
M242A0110	1/8	10/32 UNF	0.18	0.70	0.44	0.28	0.08
M242A0116	1/8	1/16	0.31	0.71	0.44	0.31	0.09
M242A0118	1/8	1/8	0.33	0.44	0.44	0.43	0.09
M242A0210	5/32	10/32 UNF	0.18	0.72	0.46	0.31	0.10
M242A0216	5/32	1/16	0.31	0.75	0.46	0.31	0.09
M242A0218	5/32	1/8	0.33	0.64	0.46	0.43	0.09
M242A0410	1/4	10/32 UNF	0.16	0.76	0.51	0.41	0.09
M242A0416	1/4	1/16	0.31	0.87	0.51	0.41	0.16
M242A0418	1/4	1/8	0.33	0.77	0.51	0.41	0.16



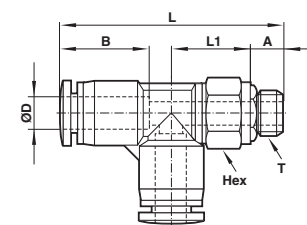
**Swivel Tee Adapter**

Part Number	ØD	T NPT or UNF Thread	A	L1	L	H	B	Hex
M24670110	1/8	10/32 UNF	0.14	0.51	0.80	1.05	0.44	0.31
M24670116	1/8	1/16	0.31	0.48	0.86	1.05	0.44	0.31
M24670118	1/8	1/8	0.33	0.48	0.91	1.05	0.44	0.43
M24670210	5/32	10/32 UNF	0.14	0.51	0.82	1.13	0.46	0.31
M24670216	5/32	1/16	0.31	0.48	0.88	1.13	0.46	0.31
M24670218	5/32	1/8	0.33	0.48	0.93	1.13	0.46	0.43
M24670410	1/4	10/32 UNF	0.14	0.57	0.93	1.27	0.46	0.31
M24670416	1/4	1/16	0.31	0.46	0.99	1.27	0.46	0.31
M24670418	1/4	1/8	0.33	0.49	1.04	1.27	0.46	0.43



**Straight adapter (female thread)**

Part Number	ØD	T NPT or UNF Thread	A	L	B	D	Hex
M24260110	1/8	10/32 UNF	0.24	0.74	0.44	0.30	0.31
M24260116	1/8	1/16	0.31	0.81	0.44	0.30	0.41
M24260118	1/8	1/8	0.33	0.89	0.44	0.30	0.43
M24260128	1/8	1/4	0.41	1.00	0.44	0.30	0.67
M24260210	5/32	10/32 UNF	0.24	0.78	0.46	0.31	0.31
M24260216	5/32	1/16	0.31	0.85	0.46	0.33	0.41

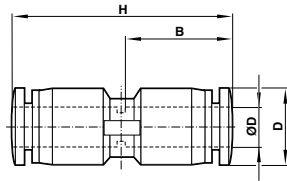


**Swivel Side Tee Adapter**

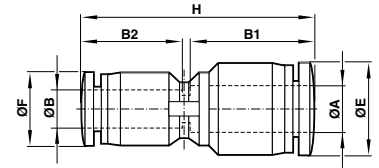
Part Number	ØD	T NPT or UNF Thread	A	L1	H	L	B	Hex
M24680110	1/8	10/32 UNF	0.14	0.51	0.52	1.18	0.44	0.31
M24680116	1/8	1/16	0.31	0.48	0.52	1.24	0.44	0.31
M24680118	1/8	1/8	0.33	0.48	0.52	1.29	0.44	0.43
M24680210	5/32	10/32 UNF	0.12	0.51	0.56	1.20	0.46	0.31
M24680216	5/32	1/16	0.31	0.48	0.56	1.26	0.46	0.31
M24680218	5/32	1/8	0.33	0.48	0.56	1.31	0.46	0.43
M24680410	1/4	10/32 UNF	0.14	0.57	0.69	1.41	0.53	0.31
M24680416	1/4	1/16	0.31	0.46	0.69	1.46	0.53	0.31
M24680418	1/4	1/8	0.33	0.49	0.69	1.52	0.53	0.43

● In stock  
◆ Ships within one week

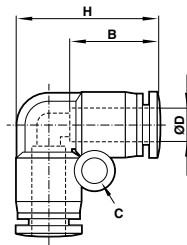
Dimensions in inches


**Straight Union**

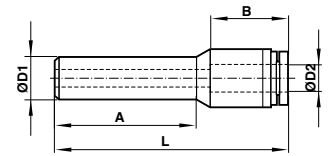
Part Number	ØD	D	B	H
M20200100 ●	1/8	0.30	0.44	0.91
M20200200 ●	5/32	0.33	0.46	0.96
M20200400 ●	1/4	0.44	0.53	1.13


**Straight Union (unequal)**

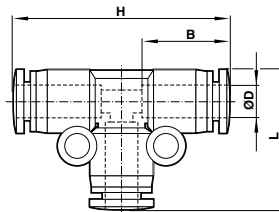
Part Number	ØA	ØB	ØF	ØE	B2	B1	H
M20200201 ●	5/32	1/8	0.30	0.33	0.44	0.46	0.94
M20200401 ●	1/4	1/8	0.30	0.44	0.44	0.53	1.04
M20200402 ●	1/4	5/32	0.35	0.44	0.46	0.53	1.11


**Union Elbow**

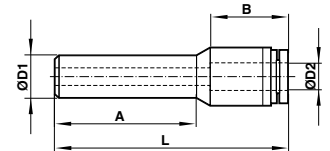
Part Number	ØD	C	B	H
M20400100 ●	1/8	0.13	0.44	0.67
M20400200 ●	5/32	0.13	0.46	0.73
M20400400 ●	1/4	0.13	0.53	0.91


**Stem Reducer (stem/tube)**

Part Number	ØD2	ØD1	A	L	B
C20230201 ●	5/32	1/8	0.73	1.25	0.44
C20230401 ●	1/4	1/8	0.82	1.25	0.44


**Union Tee**

Part Number	ØD	C	L	B	H
M20600100 ●	1/8	0.13	0.67	0.44	1.05
M20600200 ●	5/32	0.13	0.73	0.46	1.13
M20600400 ●	1/4	0.13	0.91	0.53	1.39

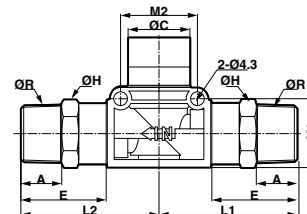

**Stem Expander (stem/tube)**

Part Number	ØD2	ØD1	A	L	B
C20230104 ●	1/8	1/4	0.65	1.41	0.69
C20230204 ●	5/32	1/4	0.73	1.49	0.69

● In stock  
 ◆ Ships within one week

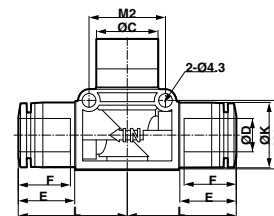
Dimensions in inches





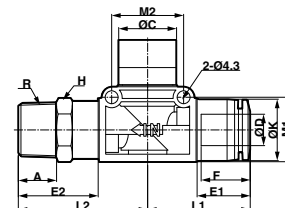
### Thread to thread shut-off valve

Part Number	ØR NPT	ØH	ØC	A	E	L1	L2	M1	M2
C24GG1818 ●	1/8	9/16	0.65	0.33	0.91	1.46	1.46	0.72	0.75
C24GG2828 ●	1/4	9/16	0.65	0.41	0.97	1.54	1.54	0.72	0.75
C24GG3838 ●	3/8	11/16	0.76	0.45	0.96	1.61	1.57	0.85	0.94
C24GG4848 ●	1/2	7/8	0.76	0.57	1.15	1.80	1.80	0.85	0.94



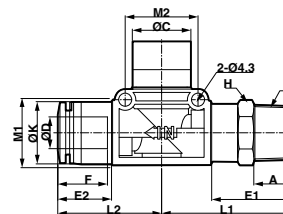
### Tube to tube shut-off valve

Part Number	ØD	ØK	ØC	F	E	L	M1	M2
C20GF0400 ●	1/4	0.50	0.65	0.70	0.49	1.04	0.72	0.75
C20GF0500 ●	5/16	0.58	0.65	0.75	0.55	1.10	0.72	0.75
C20GF0600 ●	3/8	0.69	0.76	0.78	0.57	1.22	0.85	0.94
C20GF0700 ●	1/2	0.83	0.76	0.91	0.70	1.35	0.85	0.94



### Tube to thread shut-off valve

Part Number	ØD	R NPT	ØK	H	ØC	A	F	E1	E2	L1	L2	M1	M2
C24GH0418 ●	1/4	1/8	0.50	9/16	0.65	0.33	0.70	0.49	0.91	1.04	1.46	0.72	0.75
C24GH0428 ●	1/4	1/4	0.50	9/16	0.65	0.41	0.70	0.49	0.99	1.04	1.54	0.72	0.75
C24GH0438 ●	1/4	3/8	0.50	11/16	0.65	0.45	0.70	0.49	1.03	1.04	1.58	0.72	0.75
C24GH0628 ●	3/8	1/4	0.69	11/16	0.76	0.41	0.78	0.57	0.93	1.22	1.57	0.85	0.94
C24GH0638 ●	3/8	3/8	0.69	11/16	0.76	0.45	0.78	0.57	0.96	1.22	1.61	0.85	0.94



### Thread to tube shut-off valve

Part Number	ØD	R NPT	ØK	H	ØC	A	F	E1	E2	L1	L2	M1	M2
C24GJ0428 ●	1/4	1/4	0.50	9/16	0.65	0.41	0.70	0.99	0.49	1.54	1.04	0.72	0.75
C24GJ0628 ●	3/8	1/4	0.69	11/16	0.76	0.41	0.78	0.93	0.57	1.57	1.22	0.85	0.94
C24GJ0438 ●	1/4	3/8	0.50	11/16	0.65	0.45	0.70	1.03	0.49	1.58	1.04	0.72	0.75
C24GJ0638 ●	3/8	3/8	0.69	11/16	0.76	0.45	0.78	0.96	0.57	1.61	1.22	0.85	0.94
C24GJ0748 ●	1/2	1/2	0.83	7/8	0.76	0.57	0.86	1.15	0.70	1.80	1.35	0.85	0.94

- In stock
- ◆ Ships within one week

Dimensions in inches

### Ready to use

Manufactured from NSF (51 & 61) approved materials for use in food and water applications.

Releasable stainless-steel grab-ring offers fast, secure assembly and disassembly of nylon, PU and PE tubing.

Suitable for use in medical and analytical equipment including fluid and precision gas control.

Appropriate for inert gas and industrial air applications.



### Technical data

#### Medium:

Air and liquids

#### Operating pressure:

Vacuum up to 29.5" Hg

(750 mm Hg):

5/32" to 5/16", -4°F to 68°F  
 (-20° to 20°C),

230 psig (16 bar)

3/8" to 1/2", -4°F to 68°F  
 (-20° to 20°C),

170 psig (12 bar)

5/32" to 5/16", 68°F to 149°F  
 (20° to 65°C),

150 psig (10 bar)

3/8" to 1/2", 68°F to 149°F  
 (20° to 65°C),

100 psig (7 bar)

#### Temperature:

-4°F to 149°F (-20° to 65°C)

#### Materials:

Body: Acetal

Seals: Food and water grade NBR

Collet: PBT with Stainless Steel  
 teeth

#### Tube sizes:

5/32", 3/16", 1/4", 5/16", 3/8"  
 and 1/2"

#### Thread sizes:

1/8", 1/4", 3/8", 1/2", 5/8" NPTF

Tube types:

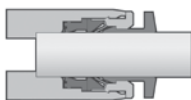
Nylon, Polyurethane, Polyethylene

### Method of assembly



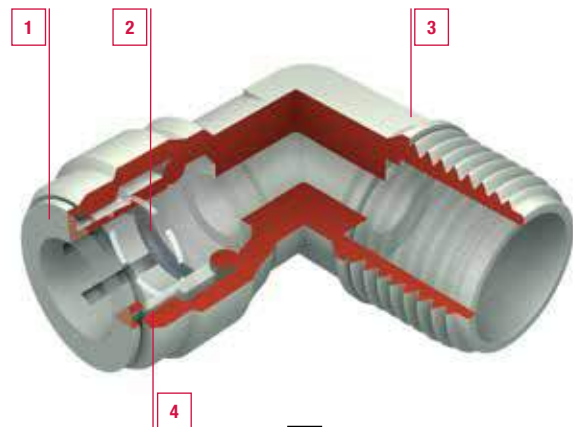
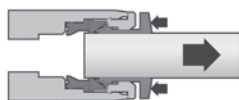
1. Ensure that the end tube is cut square and is free from burrs.

2. Push the tube through the release ring button and grab ring into the fitting.



3. Push the tube firmly through the 'O' ring until it bottoms on the tube stop, then pull back.

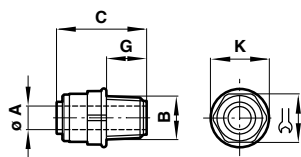
4. To disconnect, push the tube into the fitting, hold down the release button and withdraw the tube.



- 1 Collet- unique oval shape allowing for easier connecting and disconnecting.
- 2 O-ring - NBR provides leak proof seal.
- 3 Body and cap - made of highly durable acetal copolymer (POM).
- 4 Stainless steel teeth - holds tubing in place

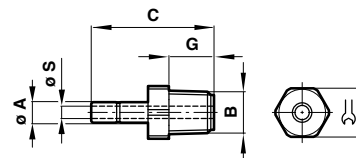
● In stock  
 ◆ Ships within one week

Dimensions in inches



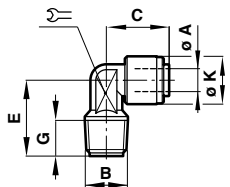
### Straight Adapter

Part Number	Ø A	B NPTF	C*	G	Ø K	
D24250418	1/4	1/8	1.02	0.36	0.70	5/8
D24250428	1/4	1/4	1.19	0.52	0.70	5/8
D24250438	1/4	3/8	1.21	0.54	0.84	3/4
D24250518	5/16	1/8	1.05	0.36	0.84	3/4
D24250528	5/16	1/4	1.21	0.52	0.84	3/4
D24250538	5/16	3/8	1.23	0.54	0.84	3/4
D24250618	3/8	1/8	1.15	0.36	0.91	13/16
D24250628	3/8	1/4	1.31	0.52	0.91	13/16
D24250638	3/8	3/8	1.34	0.54	0.91	13/16
D24250648	3/8	1/2	1.50	0.70	0.98	7/8
D24250738	1/2	3/8	1.53	0.54	1.08	31/32
D24250748	1/2	1/2	1.68	0.70	1.08	31/32



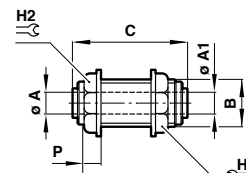
### Straight Stem Adapter

Part Number	Ø A	B NPTF	C	G	Ø S	
D24150418	1/4	1/8	1.34	0.36	0.18	1/2
D24150428	1/4	1/4	1.50	0.52	0.18	5/8
D24150518	5/16	1/8	1.38	0.36	0.18	1/2
D24150628	3/8	1/4	1.66	0.52	0.26	5/8
D24150638	3/8	3/8	1.70	0.54	0.26	3/4
D24150738	1/2	3/8	1.86	0.54	0.37	3/4
D24150748	1/2	1/2	2.02	0.70	0.37	15/16



### Elbow Adapter

Part Number	Ø A	B NPTF	C*	E	G	Ø K	
D24450418	1/4	1/8	0.67	0.79	0.36	0.59	7/16
D24450428	1/4	1/4	0.67	0.94	0.52	0.59	7/16
D24450438	1/4	3/8	0.67	0.87	0.54	0.59	7/16
D24450628	3/8	1/4	0.80	0.94	0.52	0.79	9/16
D24450638	3/8	3/8	0.80	0.94	0.54	0.79	9/16
D24450738	1/2	3/8	1.00	1.18	0.54	0.91	11/16
D24450748	1/2	1/2	1.00	1.24	0.70	0.91	11/16

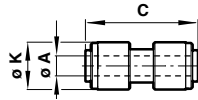


### Bulkhead Union

Part Number	Ø A	Ø A1	B	C*	P	H1	H2
D20290400	1/4	1/4	M17X1.5	1.35	0.28	0.75	0.83
D20290500	5/16	5/16	M20X1.75	1.52	0.31	0.83	1.00
D20290600	3/8	3/8	M24X1.75	1.67	0.33	0.94	1.12
D20290700	1/2	1/2	M27X2.0	2.04	0.35	1.06	1.2

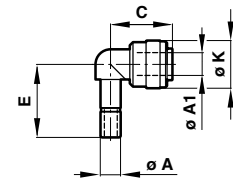
● In stock  
◆ Ships within one week

Dimensions in inches



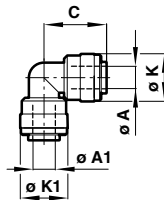
### Straight Union

Part Number	$\varnothing A$	$C^*$	$\varnothing K$
D20200200 ●	5/32	1.25	0.52
D20200300 ●	3/16	1.28	0.54
D20200400 ●	1/4	1.43	0.61
D20200500 ●	5/16	1.50	0.69
D00200600 ●	3/8	1.70	0.79
D00200700 ●	1/2	2.09	0.93



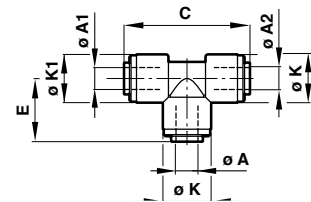
### Stem Elbow

Part Number	$\varnothing A$	$\varnothing A1$	$C^*$	$E$	$\varnothing K$
D20430200 ●	5/32	5/32	0.69	0.71	0.52
D20430300 ●	3/16	3/16	0.71	0.73	0.54
D20430400 ●	1/4	1/4	0.79	0.83	0.61
D20430500 ●	5/16	5/16	0.84	0.89	0.69
D20430600 ●	3/8	3/8	0.96	0.98	0.79
D20430700 ●	1/2	1/2	1.21	1.16	0.93



### Union Elbow

Part Number	$\varnothing A$	$\varnothing A1$	$C^*$	$\varnothing K$	$\varnothing K1$
D20400200 ●	5/32	5/32	0.96	0.52	0.52
D20400300 ●	3/16	3/16	1.00	0.54	0.54
D20400400 ●	1/4	1/4	1.13	0.61	0.61
D20400500 ●	5/16	5/16	1.21	0.69	0.69
D20400600 ●	3/8	3/8	1.41	1.41	1.41
D20400700 ●	1/2	1/2	1.71	0.91	0.91

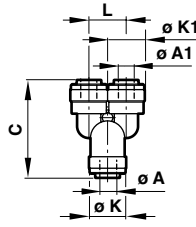


### Union Tee

Part Number	$\varnothing A$	$\varnothing A1$	$\varnothing A2$	$C^*$	$E^*$	$\varnothing K$	$\varnothing K1$
D20600200 ●	5/32	5/32	5/32	1.41	0.69	0.53	0.51
D20600300 ●	3/16	3/16	3/16	1.46	0.69	0.54	0.51
D20600400 ●	1/4	1/4	1/4	1.65	0.79	0.61	0.59
D20600500 ●	5/16	5/16	5/16	1.72	0.83	0.69	0.67
D20600600 ●	3/8	3/8	3/8	2.04	0.98	0.79	0.79
D20600700 ●	1/2	1/2	1/2	2.51	1.18	0.91	0.91

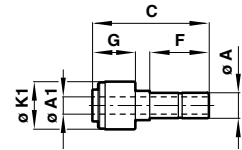
● In stock  
 ◆ Ships within one week

Dimensions in inches



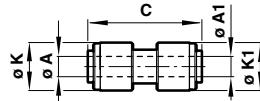
**Union Y**

Part Number	ø A	ø A1	C*	ø K	ø K1	L
D20820400 ●	1/4	1/4	1.53	0.61	0.61	0.61
D20820600 ●	3/8	3/8	1.83	0.79	0.79	0.79
D20820700 ●	1/2	1/2	2.24	0.91	0.91	0.91



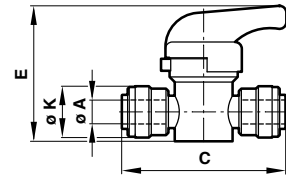
**Stem Reducer (stem/tube)**

Part Number	ø A	ø A1	C*	F	G	ø K1
D20230504 ●	5/16	1/4	1.60	0.89	0.67	0.61



**Straight Union (Unequal)**

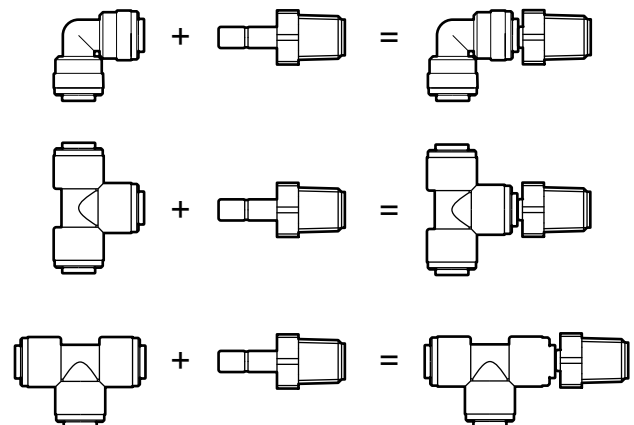
Part Number	ø A	ø A1	C*	ø K	ø K1
D20200504 ●	5/16	1/4	1.45	0.69	0.69
D20200605 ●	3/8	5/16	1.67	0.79	0.79
D20200706 ●	1/2	3/8	2.06	0.93	0.99



**Hand Valve (Union)**

Part Number	ø A	C*	E	ø K
D20GR0400 ●	1/4	2.04	1.36	0.61
D20GR0600 ●	3/8	2.49	1.67	0.79
D20GR0700 ●	1/2	2.79	1.67	0.91

**Adaptability**



● In stock  
◆ Ships within one week

Dimensions in inches

**Compact units featuring retained collets and positive tube anchorage.**

**Silicone free 'O'-ring seals.**

**Non-PTFE based thread sealant on all BSP taper threads.**

**Easy tube insertion for rapid assembly.**

**Internal hexagon on straight adaptors allows assembly in confined spaces.**

**Wide range of types available.**

**Reliable and corrosion resistant.**



### Technical data

**Fluid:** Compressed air, nitrogen, inert and non-combustible gases compatible with materials of construction. For other types of fluids or compressed gases, please consult factory.

**Working Pressure:** 750 mm Hg to 18 bar (29.5" Hg vacuum to 260 psig)

Note: Flow Controls working pressures:

.3 to 10 bar (5 to 150 psig)

**Working Temperature:** -20°C to 80°C (0°F to 175°F)

Request FPM option on selected part numbers for extended temperature range: -20°C to 180°C (0° to 350°F)

### Materials of Construction

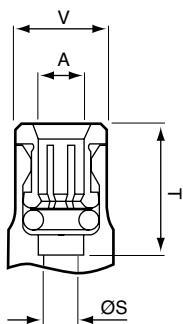
Body, swivel fitting and collet: Nickel plated brass

O-ring: Silicone free Nitrile

Sealing washer (parallel male threads): Silicon free nitrile

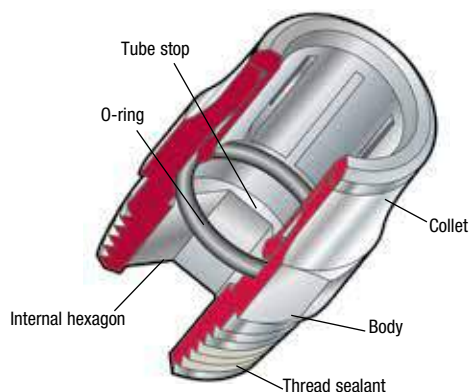
Tubing: Nylon 11 or Nylon 12, Polyurethane (95 durometer or above) and LDPE (Low Density Polyethylene).

Note: Lower durometer polyurethane may be used, however, an internal tube support is required to prevent internal collapse of the tube wall.  
Thread Sealant: Precote 5 thread sealant is factory applied to the circumference of tapered male threads (ISO R).



### Dimensions mm (in.)

A O.D. Tube	S	T Tubing Stop	V
4 (5/32")	2.8 (.11)	14.0 (.55)	7.5 (.30)
5	3.4 (.13)	15.0 (.59)	10.0 (.39)
6	4.4 (.17)	15.5 (.61)	11.0 (.43)
8 (5/16")	6.0 (.24)	16.5 (.65)	13.0 (.51)
10	7.6 (.30)	21.0 (.83)	14.5 (.57)
12	9.6 (.38)	24.5 (.96)	18.0 (.71)
14	11.5 (.45)	24.5 (.96)	20.0 (.79)



- In stock
- ◆ Ships within one week

### Recommended tightening torques

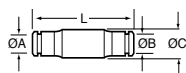
Thread Size	Tightening Torque Nm (ft lbs)	
	ISO R	ISO G*
M5	—	1 - 1.4 (.75 - 1.05)
1/8	6.9 - 8.8 (5.0 - 6.5)	7 - 9 (5.3 - 6.8)
1/4	11.8 - 13.7 (8.7 - 10.0)	9 - 12 (6.8 - 9.0)
3/8	21.6 - 23.5 (15.9 - 17.3)	34 - 38 (25.5 - 28.5)
1/2	27.4 - 29.4 (20.2 - 21.7)	41 - 47 (30.8 - 35.3)

\* Lower torques can be used to achieve a seal but these figures are recommended to provide some vibration resistance.

### Tube O.D.'s and Tube Tolerances

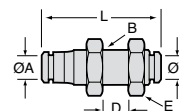
O.D. Tube Tolerances	Nylon	Polyurethane
4 mm to 5 mm (5/32" to 3/16")	+0.05 mm (+0.002") -0.07 mm (-0.003")	±0.10 mm (±0.004")
6 mm to 14 mm (1/4" to 1/2")	+0.05 mm (+0.002") -0.10 mm (-0.004")	

LDPE -Tolerances specified in DIN 73378 or BS54-09/1:1976



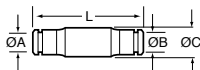
### Pneufit Union

Part number	O/D tube	L	C
100200500 ●	5	31.9	11.0
100200600 ●	6	32.4	12.0
100200800 ●	8	34.4	14.0
100201000 ●	10	43.4	17.0
100201200 ●	12	50.4	21.0



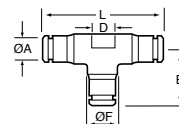
### Pneufit Bulkhead Union

Part number	O/D tube	B Metric thread	Panel hole ø	E A/F	D max.	L
100290400 ●	4	M10 x 1.0	10.5	14	12	29.9
100290600 ●	6	M14 x 1.0	14.4	19	15	32.4
100290800 ●	8	M16 x 1.5	16.5	22	16	32.4



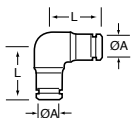
### Pneufit Conversions Union (Inch tube to mm tube)

Part number	ØA inch	ØB mm	C	L
120200200 ●	5/32	4	9.0	29.8
120370406 ●	1/4	6	12.0	32.5
120200500 ●	5/16	8	14.0	34.4
120370610 ●	3/8	10	17.0	43.4
120370712 ●	1/2	12	20.5	50.3



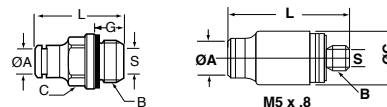
### Pneufit Union Tee

Part number	A Ø tube	L	D A/F	E	F
100600400 ●	4	33.8	7.0	16.9	10.1
100600600 ●	6	39.2	8.0	19.6	12.1
100600800 ●	8	42.6	11.0	21.3	14.3
100601000 ●	10	53.4	13.3	26.7	17.1
100601200 ●	12	63.4	16.0	31.7	20.6



### Pneufit Union Elbow

Part number	A O/D tube	L
100400600 ●	6	19.6
100400800 ●	8	21.3



### Pneufit ISO G Male Adapter

Part number	A Ø tube	B ISO G or Metric thread	C A/F	G	L	S Hex
102250405 ●	4	M5 x .8	9.0 Ø	5.0	21.9	2.5
102250418 ●	4	1/8	10	7.2	23.0	3.0
102250605 ●	6	M5 x .8	11.0 Ø	5.0	23.7	2.5
102250628 ●	6	1/4	13	9.8	23.7	4.0
102250818 ●	8	1/8	13	7.2	26.7	5.0
102250828 ●	8	1/4	14	9.8	28.2	6.0
102251028 ●	10	1/4	17	9.8	33.7	7.0

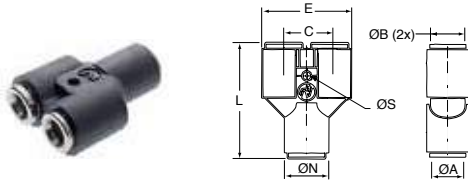
Pneufit ISO G Male Connector



All straight male connectors have an internal hex for the use of an Allen Wrench to allow the fitting to be mounted in any position. This also permits close porting not possible with a standard open end or socket wrench.

- In stock
- ◆ Ships within one week

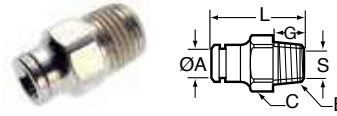
Dimensions in MM



**Pneufit Union "Y"**

Part number	A O/D	B O/D	C	E	L	ØN	ØS**
120820200 ●	4	4	11.0	22.0	34.0	11.0	3.2
120820500 ●	8	8	16.0	31.0	40.4	15.0	3.2

\*Body Material: Thermoplastic  
\*\* Mounting hole

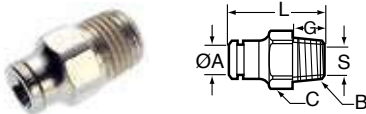


**Pneufit Male Adapter - Conversion  
(Inch O.D. Tube to ISO R (Male) Thread)**

Part number	A O/D Tube	B ISO R thread	C A/F	G	L	S
101250618 ●	6	1/8	11	7.7	23.2	4.0
101250628 ●	6	1/4	14	11.1	25.2	4.0
101250818 ●	8	1/8	13	7.7	26.7	5.0
101250828 ●	8	1/4	14	11.1	28.2	6.0
101250838 ●	8	3/8	17	12.7	27.2	6.0
101251028 ●	10	1/4	17	11.1	34.2	7.0
101251038 ●	10	3/8	17	12.7	34.2	8.0

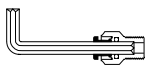


All straight male connectors have an internal hex for the use of an Allen Wrench to allow the fitting to be mounted in any position. This also permits close porting not possible with a standard open end or socket wrench.

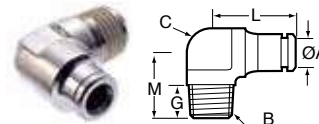


**Pneumatic Male Adapter**

Part number	A Ø Tube	B NPT thread	C	G	L	S Hex
124250210 ●	4	10-32	9.0	5.0	21.5	3/32"
124250218 ●	4	1/8	11.1	9.5	22.7	1/8"
124250228 ●	4	1/4	14.3	14.3	26.5	1/8"
104250610 ●	6	10-32	11.0	5.0	24	3/32
104250618 ●	6	1/8	11.1	9.5	25.0	5/32"
104250628 ●	6	1/4	14.3	14.3	28.3	5/32"
124250518 ●	8	1/8	12.7	9.5	28.5	3/16"
124250528 ●	8	1/4	14.3	14.3	31.3	1/4"
124250538 ●	8	3/8	17.5	14.3	28.8	1/4"
104251018 ●	10	1/8	17.5	9.5	33.5	-
104251028 ●	10	1/4	17.5	14.3	37.3	1/4"
104251038 ●	10	3/8	17.5	14.3	35.8	5/16"
104251228 ●	12	1/4	22.2	14.3	42.3	9/32"



All straight male connectors have an internal hex for the use of an Allen Wrench to allow the fitting to be mounted in any position. This also permits close porting not possible with a standard open end or socket wrench.



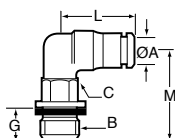
**Pneufit ISO R Male Fixed Elbow**

Part number	A O/D tube	B ISO R thread	C A/F	G	L	M
101450618 ●	6	1/8	8	7.7	19.6	16.0
101450818 ●	8	1/8	11	7.7	21.3	16.9

● In stock  
◆ Ships within one week

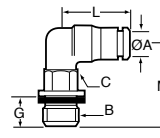
Dimensions in MM





**Pneufit ISO G Swivel Male Elbow**

Part number	A O/D Tube	B ISO G or Metric thread	C A/F	G	L	M
102470405	● 4	M5 x .8	8	5.0	21.0	17.0
102470418	● 4	1/8	11	7.2	16.9	21.8
102470605	● 6	M5 x .8	8	5.0	19.5	19.6
102470618	● 6	1/8	11	7.2	19.6	22.8
102470628	● 6	1/4	11	9.8	19.6	26.5
102470818	● 8	1/8	13	7.2	21.3	23.8
102470828	● 8	1/4	17	9.8	21.3	29.1
102471018	● 10	1/8	17	7.2	26.7	26.3
102471028	● 10	1/4	17	9.8	26.7	31.6



**Pneufit ISO R Swivel Male Elbow**

Part number	A O/D tube	B ISO R thread	C A/F	G	L	M
101470418	● 4	1/8	10	7.7	16.9	20.5
101470628	● 6	1/4	4	11.1	19.6	25.1
101470818	● 8	1/8	14	7.7	21.3	23.0
101470828	● 8	1/4	14	11.1	21.3	26.1
101471028	● 10	1/4	17	11.1	26.7	28.8
101471038	● 10	3/8	17	12.7	26.7	30.5

CAUTION: Swivel adapters are not suitable for use in continuously rotating or gyrating applications.

● In stock  
 ◆ Ships within one week

Dimensions in MM

**Releasable stainless-steel grab-ring to grip nylon or polyurethane tube (85 or 95 durometer).**

**Nickel plated brass components.**

**Pre-applied thread sealant on all taper threads and recessed captive O-ring on parallel threads.**

**Internal and external hexagons on straight fittings.**

**Immediate quality sealing using silicone free U-packing.**



### Technical data

#### Medium

Compressed air

#### Operating pressure

750mm Hg vacuum, up to 10 bar

Temperature

0 to 60°C

#### Medium

compressed air

#### Tube sizes

Standard sizes:

4, 6, 8, 10, 12, 16 mm

Miniature sizes:

3, 4, and 6 mm

#### Thread sizes

Standard sizes:

M5, M6, 1/8, 1/4, 3/8 and 1/2 inch, ISO G and ISO R

Miniature sizes:

M3, M5 and 1/8 inch ISO R

#### Tube types

Nylon 11 or 12

Polyurethane 85, 95 or 98 durometer

#### Materials

Body: PBT

Seals: NBR (silicone free)

u-packing and O-rings

Threaded bodies: nickel plated brass

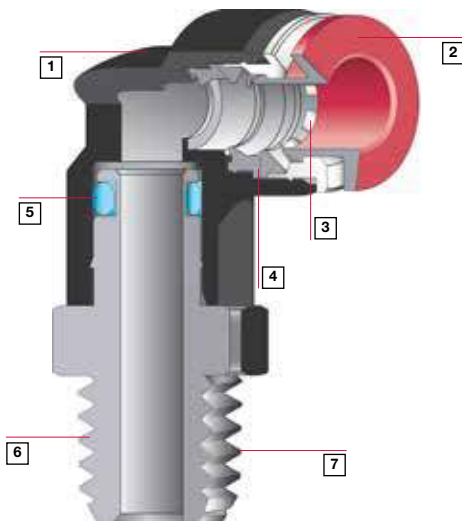
Release sleeve and backing ring:

POM

Grab-ring: stainless steel

Collar: nickel plated zinc

Thread sealant: Chemiseal G 175



**1** Impact resistant PBT body in black for Pneufit® C and light gray for Pneufit® M.

**2** Release buttons are red for metric, grey for inch, and light grey oval for Pneufit® M.

**3** Stainless steel grab ring with special design to retain softer tube and provide easy releasability.

**4** Silicon free U-packing provides leak tight tube seal under side loading.

**5** Stem seal provides leak tight 360° swivel connection.

**6** Nickel plated brass threads and notches on hex to signify NPT.

**7** Pre-applied thread sealant on tapered threads and recessed captive O-ring on parallel threads.

● In stock

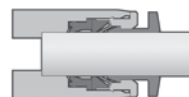
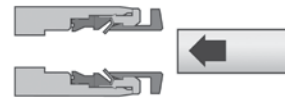
◆ Ships within one week

### Method of assembly



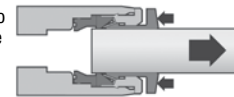
1. Ensure that the end tube is cut square and is free from burrs.

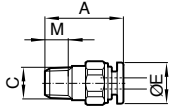
2. Push the tube through the release ring button and grab ring into the fitting.



3. Push the tube firmly through the 'O' ring until it bottoms on the tube stop, then pull back.

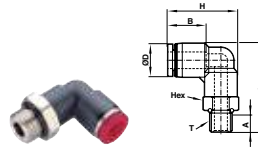
4. To disconnect, push the tube into the fitting, hold down the release button and withdraw the tube.





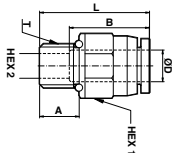
ISO R Male connector

Part number	O/D tube	BSPT Thread	A	C	E	M
C01250418	4mm	1/8" R	19.7	1/8"	12.0	8.6
C01250428	4mm	1/4" R	23.2	1/4"	15.0	11.1
C01250618	6mm	1/8" R	25.1	1/8"	14.0	8.6
C01250628	6mm	1/4" R	23.1	1/4"	15.0	11.1
C01250638	6mm	3/8" R	22	3/8"	-	11
C01250818	8mm	1/8" R	28.6	1/8"	16.0	8.6
C01250828	8mm	1/4" R	26.1	1/4"	16.0	11.1
C01250838	8mm	3/8" R	26.1	3/8"	18.5	12.7
C01250848	8mm	1/2" R	31.6	1/2"	24.0	15.9
C01251018	10mm	1/8" R	30.1	1/8"	21.0	8.6
C01251028	10mm	1/4" R	32.1	1/4"	21.0	11.1
C01251038	10mm	3/8" R	29.6	3/8"	21.0	12.7
C01251048	10mm	1/2" R	33.1	1/2"	24.0	15.9
C01251228	12mm	1/4" R	33	1/4"	-	10
C01251238	12mm	3/8" R	30	3/8"	-	11
C01251248	12mm	1/2" R	30	1/2"	-	14



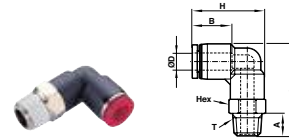
90° Swivel elbow

Part number	O/D tube	Thread	L	H	A	B	HEX
C02470405	4mm	M5	27.25	23.8	4.6	16.8	10*11.0
C02470605	6mm	M5	30.25	26.5	4.5	17.6	12*13
C02470606	6mm	M6	30.25	26.5	4.5	17.6	12*13
C02470618	6mm	1/8" G	30.8	26.5	6	17.6	14*15.5
C02470628	6mm	1/4" G	32.6	26.5	8	17.6	17*19
C02470818	8mm	1/8" G	32.9	29.7	8	18.7	14*15.5
C02470828	8mm	1/4" G	34.9	29.7	8	18.7	21*19



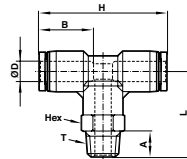
ISO G Male connector

Part number	O/D tube	T Thread BSPP	L	A	B	Hex 1	Hex 2
C02250405	4mm	M5	21.9	4.1	15.9	10	2
C02250418	4mm	1/8" G	21.5	6	15.9	13	3
C02250605	6mm	M5	23.6	4.8	16.5	10	2
C02250606	6mm	M6	23.1	4.1	16.5	12	2
C02250618	6mm	1/8" G	26.7	6	17.7	15	5
C02250628	6mm	1/4" G	24.5	8	16.5	15	5
C02250818	8mm	1/8" G	26.7	6	17.7	15	5
C02250828	8mm	1/4" G	26.7	8	17.7	15	6
C02251038	10mm	3/8" G	27.0	8	18.6	17	8
C02251048	10mm	1/2" G	28.3	9	18.6	21	8



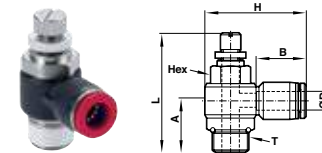
90° Swivel elbow

Part number	O/D tube	Thread	L	H	A	B	HEX
C01470418	4mm	1/8" R	29.75	23.8	8	16.8	10*11.0
C01470428	4mm	1/4" R	31.75	23.8	10	16.8	14*15.4
C01470618	6mm	1/8" R	32.75	26.5	8	17.6	12*13.0
C01470628	6mm	1/4" R	35.75	26.5	10	17.6	14*15.4
C01470638	6mm	3/8" R	36.75	26.5	11	17.6	17*18.5
C01470648	6mm	1/2" R	39.75	26.5	14	17.6	22*24.5
C01470818	8mm	1/8" R	35.15	29.7	8	18.7	14*15.4
C01470828	8mm	1/4" R	38.15	29.7	10	18.7	14*15.4
C01470838	8mm	3/8" R	39.15	29.7	11	18.7	17*18.5
C01470848	8mm	1/2" R	42.15	29.7	14	18.7	22*24.5
C01471018	10mm	1/8" R	37.25	32.1	8	19.6	17*18.5
C01471028	10mm	1/4" R	40.25	32.1	10	19.6	17*18.5
C01471038	10mm	3/8" R	41.25	32.1	11	19.6	17*18.5
C01471048	10mm	1/2" R	44.25	32.1	14	19.6	22*24.5
C01471228	12mm	1/4" R	44.65	36.9	10	21.9	19*21.9
C01471238	12mm	3/8" R	45.65	36.9	11	21.9	19*21.9
C01471248	12mm	1/2" R	48.65	36.9	14	21.9	22*24.5



Swivel tee adapter

Part number	Thread BSPP	O/D	L	H	A	B	HEX
C01670618	1/8" R	6mm	32.75	41.0	8.0	17.6	12*13.8
C01670628	1/4" R	6mm	35.75	41.0	10.0	17.6	14*16.1
C01670828	1/4" R	8mm	38.25	44.4	10.0	18.7	14*16.1
C01671028	1/4" R	10mm	40.5	47.2	10.0	19.6	17*19.6

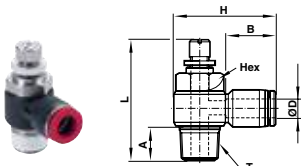


Banjo Flow Control (mm)  
(out)

Part number	ØD Tube	T thread	L min	L max	H	B	A	Hex
C0K510405	4.0	M5x0.8p	27.2	30.2	25.1	16.3	10.0	15.0
C0K510605	6.0	M5x0.8p	27.2	30.2	27.8	17.6	3.6	8.0
C0K510618	6.0	G 1/8	34.9	40.1	31.2	17.6	6.0	8.0
C0K510628	6.0	G 1/4	40	45.7	35	17.6	8.0	12.0

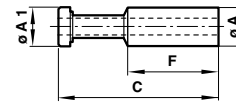
● In stock  
◆ Ships within one week

Dimensions in MM



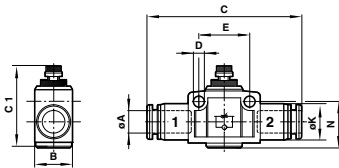
**Banjo Flow Control (mm)**

Part number	ØD tube	T	L min	L max	H	B	A	Hex
COTA00418	4.0	R 1/8	34.9	40.1	30.5	16.3	8.0	11.0
COTA00618	6.0	R 1/8	34.9	40.1	31.2	17.6	8.0	11.0
COTA00628	6.0	R 1/4	40.0	45.7	35.0	17.6	10.0	15.0
COTA00638	6.0	R 3/8	46.7	55.0	38.7	17.6	11.0	19.0
COTA00818	8.0	R 1/8	34.9	40.1	33.0	18.7	8.0	11.0
COTA00828	8.0	R 1/4	40.0	45.7	36.8	18.7	10.0	15.0
COTA00838	8.0	R 3/8	46.7	55.0	40.1	18.7	11.0	19.0



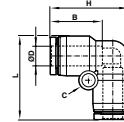
**Plug**

Part number	Ø A	Ø A1	C	F
C20040400	1/4	1/4	1.34	0.79
C00040600	6 mm	6 mm	34 mm	18.5 mm
C00040800	8 mm	8 mm	38 mm	21 mm
C00041000	10 mm	10 mm	42 mm	24 mm
C00041200	12 mm	12 mm	50 mm	30 mm



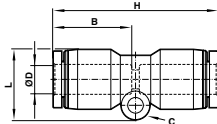
**In line flow control**

Part number	A O/D tube	C	C1 min.	C1 max.	D	E	N
C00GE0600	6mm	50	35	39.5	4.4	20.5	17.5
C00GE0800	8mm	55.5	37.5	42	4.4	23	20



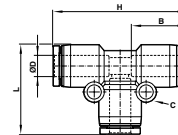
**Union elbow**

Part number	O/D tube	H	L	C	B
C00400400	4mm	36.8	24.2	3.3	15.3
C00400600	6mm	41.8	27.5	3.3	17.6
C00400800	8mm	44.9	30.65	4.3	18.7
C00401000	10mm	48.2	34.05	4.3	19.8
C00401200	12mm	56.8	39.85	4.3	22.9



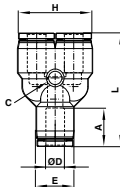
**Straight union**

Part number	D O/D tube	H	L	C	B
C00200400	4mm	34.6	12.75	3.3	16.3
C00200600	6mm	36.8	14.5	3.3	17.6
C00200800	8mm	39.4	19.85	4.3	18.7
C00201000	10mm	43.2	20.0	4.3	19.6
C00201200	12mm	47.8	23.3	4.3	21.9



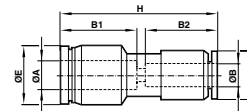
**Union tee**

Part number	D O/D tube	H	L	C	B
C00600400	4mm	36.6	24.2	3.3	16.3
C00600600	6mm	41.8	27.5	3.3	17.6
C00600800	8mm	44.9	30.65	4.3	18.7
C00601000	10mm	48.2	34.05	4.3	19.6
C00601200	12mm	56.8	39.85	4.3	21.9



**Union Y**

Part number	O/D tube	H	L	B	ØE	C
C00820400	4mm	21.0	37.1	16.3	10.5	3.3
C00820600	6mm	25.0	40.2	17.6	12.5	3.3
C00820800	8mm	29.0	43.3	18.7	14.5	4.3
C00821000	10mm	35.0	47.7	19.6	17.5	4.3

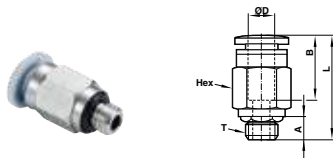


**Straight union (unequal)**

Part number	ØA tube to ØB tube	H	B1	B2	ØE	ØF
C00200604	6 - 4mm	36.6	17.6	16.3	12.5	10.5
C00200806	8 - 6mm	37.6	18.7	17.6	14.5	12.5
C00201008	10 - 8mm	41.0	19.6	18.7	17.5	14.5
C00201210	12 - 10mm	44.0	21.9	19.6	20.5	17.5

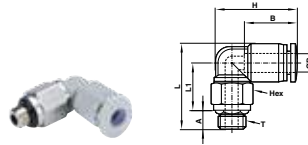
● In stock  
◆ Ships within one week

Dimensions in MM



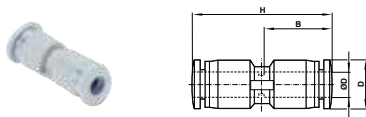
**Straight adapter (external + internal hex)**

Part number	Ø D tube	Thread	A	L	B	Hex
M02250403	4mm	M3	4.0	17.7	11.6	8
M02250405	4mm	M5	4.5	18.2	11.6	8
M02250406	4mm	M6	5.1	18.8	11.6	8
M01250418	4mm	1/8"	6	18.8	11.6	12
M02250605	6mm	M5	4.6	19.4	12.8	10
M02250606	6mm	M6	5.1	19.9	12.8	10
M01250618	6mm	1/8"	6.0	19.4	12.8	12



**90° Swivel Elbow Adapter**

Part number	Ø D tube	Thread	A	L1	L	H	B	Hex
M02470403	4mm	M3	3.0	13.0	20.3	18.2	11.6	8
M02470405	4mm	M5	3.6	13.0	20.9	18.2	11.6	8
M02470406	4mm	M6	4.1	13.0	21.4	18.2	11.6	8
M01470418	4mm	1/8"	6.0	12.2	21.5	18.2	11.6	14
M02470605	6mm	M5	3.6	13.0	21.9	19.4	12.8	8
M02470606	6mm	M6	4.1	13.0	22.4	19.4	12.8	8
M01470618	6mm	1/8"	6.0	12.2	22.5	19.4	12.8	14



**Straight Union**

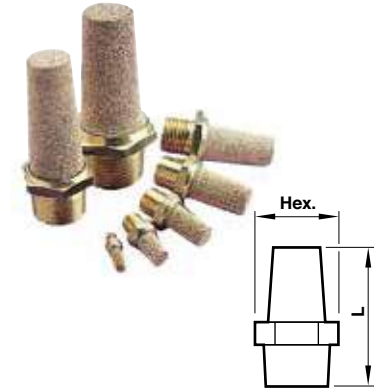
Part number	O/D tube	D	B	H
M00200400	4mm	8.5	11.6	24.5
M00200600	6mm	10.7	12.8	26.6

- In stock
- ◆ Ships within one week

Dimensions in MM

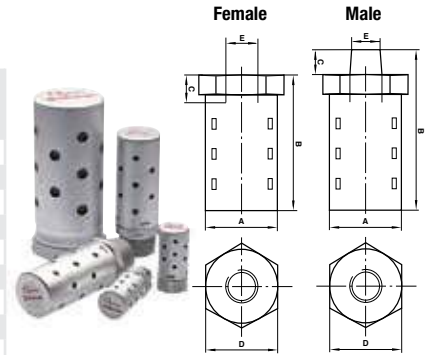
**Sintered Bronze Mufflers**

Part Number	Port Size NPT	Flow Factor Cv	Hex.	L
MS000A ●	10-32	-	5/16	0.70
MS001A ●	1/8"	0.7	7/16	1.13
MS002A ●	1/4"	1.4	9/16	1.38
MS003A ●	3/8"	1.9	11/16	1.50
MS004A ●	1/2"	3.8	7/8	1.88
MS006A ●	3/4"	6.5	1-1/16	2.25
MS008A ●	1"	10.5	1-5/16	2.88
MS010A ●	1-1/4"	11.8	1-11/16	3.25
MS012A ●	1-1/2"	18.3	2	3.69
Part Number	Port Size ISO G	Flow Factor Cv	Hex.	L
T40C1800 ●	1/8	0.54	13 mm	24 mm
T40C2800 ●	1/4	1.6	17 mm	33 mm



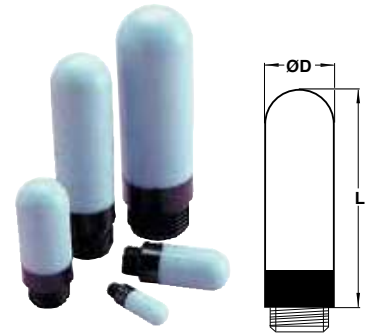
**Quietaire Heavy Duty Mufflers**

Male thread Part Number NPT thread	Male thread Part Number ISO R thread	E Port Size PTF	A	B	C	D	Female thread Part Number NPT thread	E Port Size PTF	A	B	C	D
MB001A ●	MB001B ●	1/8"	0.83	1.65	0.24	0.81	MA001A ●	1/8"	0.83	1.65	0.24	0.81
MB002A ●	MB002B ●	1/4"	0.83	1.77	0.35	0.81	MA002A ●	1/4"	0.83	1.77	0.35	0.81
MB003A ●	MB003B ●	3/8"	1.26	3.07	0.35	1.25	MA003A ●	3/8"	1.26	3.07	0.35	1.25
MB004A ●	MB004B ●	1/2"	1.26	3.27	0.47	1.25	MA004A ●	1/2"	1.26	3.27	0.47	1.25
MB006A ●	MB006B ●	3/4"	2.01	4.65	0.47	2.00	MA006A ●	3/4"	2.01	4.65	0.47	2.00
MB008A ●	-	1"	2.01	4.65	0.59	2.00	MA008A ●	1"	2.01	4.65	0.59	2.00
MBP03A ●	-	3/8"	0.83	2.17	0.51	0.83	MA010A ●	1-1/4"	2.52	5.67	0.59	2.50
MBP06A ●	-	3/4"	1.26	3.62	0.67	1.26	MA012A ●	1-1/2"	2.50	5.67	0.59	2.50
MBP10A ●	-	1-1/4"	2.0	5.51	1.02	2.0	-	-	-	-	-	-



**Porous Plastic Mufflers**

Part Number NPT	Part number ISO G	Port Size NPT	L	D	Weight oz.
	M/S0 ●	M5 (ISO G)	18.9 mm		
C/S1 ●	M/S1 ●	1/8"	1.12 "	0.50	0.06
C/S2 ●	M/S2 ●	1/4"	1.40 "	0.62	0.10
C/S3 ●	M/S3 ●	3/8"	2.20 "	0.73	0.26
C/S4 ●	M/S4 ●	1/2"	2.65 "	0.91	0.41
C/S6 ●		3/4"	4.88 "	1.50	1.41
C/S8 ●		1"	5.54 "	2.00	2.12



**Plastic Speed Control**

Part Number	Port Size NPT	Flow Factor Cv	Dia.	L
MQ004A ●	1/2"	2.5	3.54	7.09
MQ006A ●	3/4"	2.5	3.54	7.09
MQ008A ●	1"	7.7	4.33	10.51
MQ010A ●	1-1/4"	7.7	4.33	10.51



- In stock
- ◆ Ships within one week

Dimensions in inches

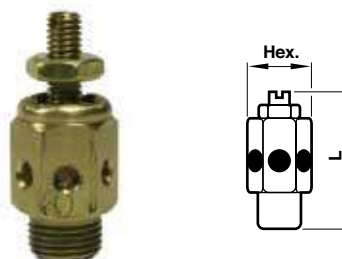
### Breather Vents

Part Number	Port Size NPT	Flow Factor Cv	Hex A/F	L
MV001A ●	1/8"	0.1	7/16"	0.44"
MV002A ●	1/4"	0.1	9/16"	0.63"
MV003A ●	3/8"	0.3	11/16"	0.75"
MV004A ●	1/2"	0.5	7/8"	0.88"
MV006A ●	3/4"	1.3	1-1/16"	1.00"
MV008A ●	1"	1.6	1-5/16"	1.31"
MV010A ●	1-1/4"	4.2	1-11/16"	1.44"
MV012A ●	1-1/2"	5.2	2"	1.50"
Part Number	Port Size ISO G	Flow Factor Cv	Hex A/F	L
M/1511 ●	1/8	0.45	15.0 mm	16 mm
M/1512 ●	1/4	1.1	23.5 mm	22 mm



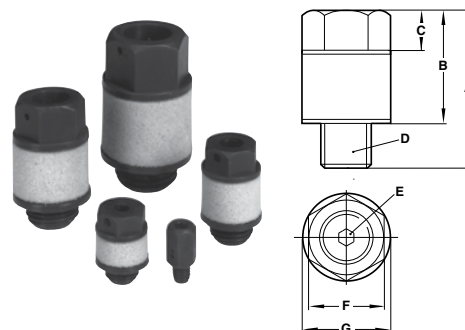
### Sintered Bronze Speed Control

Part Number	Port Size NPT	Hex	L
MM001A ●	1/8"	1/2	1.53
MM002A ●	1/4"	9/16	1.91
MM003A ●	3/8"	11/16	1.91
MM004A ●	1/2"	7/8	2.34
MM006A ●	3/4"	1-1/16	2.84
MM008A ●	1"	1-5/16	3.03



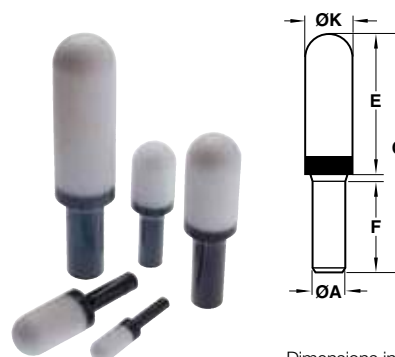
### High Performance Flow Control Muffler

Part Number	Port NPT	Max. flow	A Cv*	B	C	D	E	F	G
T20A1800 ●	1/8"	0.4	0.81	0.57	0.20	1/8	2.5	0.51	0.59
T20A2800 ●	1/4"	0.8	1.14	0.87	0.27	1/4	2.5	0.59	0.71
T20A3800 ●	3/8"	1.7	1.50	1.18	0.41	3/8	2.5	0.79	0.94



### Stem Silencers

Part Number	A Port NPT	C	E	F	ØK
T45Y0002 ●	5/32"	1.30	0.67	0.59	0.26
T45Y0004 ●	1/4"	1.77	0.98	0.67	0.49
T45Y0006 ●	3/8"	2.26	1.22	0.91	0.61



Dimensions in inches

- In stock
- ◆ Ships within one week

High maximum flow, progressive flow gain, and positive tube grip

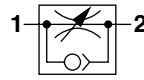
Silicone free 'O'-ring seals

Easy tube insertion for rapid assembly

For simple and quick assembly of pneumatic circuits

Wide range available

Reliable and corrosion resistant



**Technical data**

**Fluid:**

Compressed air

**Operating pressure:**

5 to 150 psig (.3 to 10 bar) unless otherwise stated (dependent upon tubing specification).

**Temperature range:**

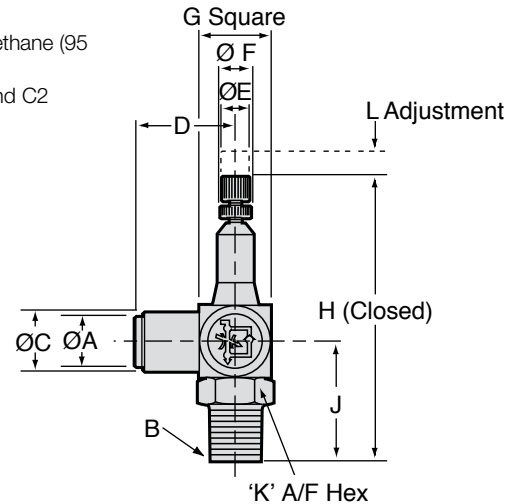
0° to 175°F (-20° to 80°C).

**Materials:**

Body: Nickel plated brass, glass filled nylon, or PBT  
Collet: Nickel plated brass  
Grabring: stainless steel  
'O'-ring: Silicone free nitrile rubber  
Sealing washer (parallel threads): Nitrile 'O'-ring  
Thread sealant: non-PTFE

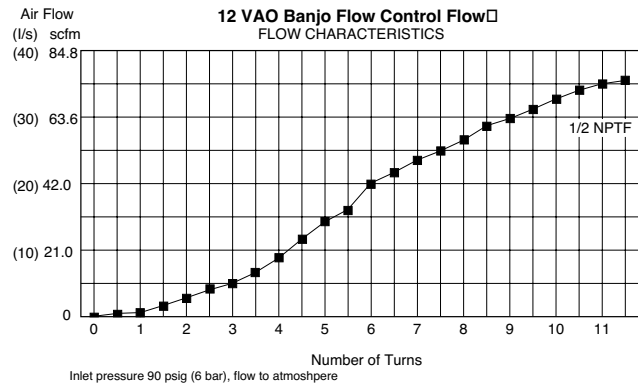
**Tube types:**

Nylon 11 or 12, polyurethane (95 durometer and 85 durometer on C0 and C2 models)



**VAO Series**

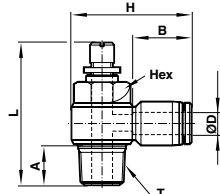
Part Number	A O.D. Tube	B NPT or UNF Thread	C	D	E	F	G	H	J	K A/F	L Adj
12VA00210	5/32"	10-32 UNF	0.37	1.04	0.16	0.28	0.38	1.51	0.45	-	0.12
12VA00218	5/32"	1/8	0.45	0.87	0.31	0.35	0.63	2.09	0.89	9/16"	0.12
12VA00418	1/4"	1/8	0.51	0.91	0.31	0.35	0.63	2.09	0.89	9/16"	0.12
12VA00428	1/4"	1/4	0.53	1.00	0.39	0.43	0.79	2.64	1.16	11/16"	0.24
12VA00628	3/8"	1/4	0.77	1.24	0.39	0.43	0.79	2.64	1.16	11/16"	0.24
12VA00638	3/8"	3/8	0.77	1.28	0.47	0.51	0.87	3.07	1.30	3/4"	0.24
12VA00748	1/2"	1/2"	0.91	1.50	0.63	0.71	1.06	3.66	1.65	7/8"	0.28





**C2VA0**

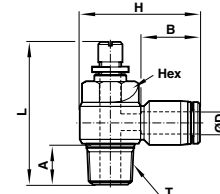
Banjo Flow Control (inch)  
(Regulating out)



Part Number	ØD	T NPT or UNF Thrd	L		H	B	A	Hex
			min	max				
C2VA00110	1/8	10/32 UNF	1.07	1.19	0.85	0.44	0.14	0.31
C2VA00210	5/32	10/32 UNF	1.07	1.19	0.99	0.64	0.14	0.31
C2VA00310	3/16	10/32 UNF	1.07	1.19	1.05	0.66	0.14	0.31
C2VA00410	1/4	10/32 UNF	1.07	1.19	1.13	0.69	0.14	0.31
C2VA00218	5/32	1/8	1.37	1.58	1.2	0.64	0.31	0.43
C2VA00318	3/16	1/8	1.37	1.58	1.24	0.66	0.31	0.43
C2VA00418	1/4	1/8	1.37	1.58	1.26	0.69	0.31	0.43
C2VA00518	5/16	1/8	1.37	1.58	1.3	0.74	0.31	0.43
C2VA00228	5/32	1/4	1.57	1.80	1.36	0.64	0.39	0.59
C2VA00328	3/16	1/4	1.57	1.80	1.39	0.66	0.39	0.59
C2VA00338	3/16	3/8	1.89	2.16	1.54	-	0.52	0.75
C2VA00428	1/4	1/4	1.57	1.80	1.41	0.69	0.39	0.59
C2VA00528	5/16	1/4	1.57	1.80	1.45	0.74	0.39	0.59
C2VA00628	3/8	1/4	1.57	1.80	1.48	0.8	0.39	0.59
C2VA00438	1/4	3/8	1.84	2.17	1.56	0.69	0.43	0.75
C2VA00538	5/16	3/8	1.84	2.17	1.58	0.74	0.43	0.75
C2VA00638	3/8	3/8	1.84	2.17	1.66	0.8	0.43	0.75
C2VA00738	1/2	3/8	1.84	2.17	1.78	0.87	0.43	0.75
C2VA00548	5/16	1/2	2.09	2.37	1.8	0.74	0.55	0.94
C2VA00648	3/8	1/2	2.09	2.37	1.86	0.8	0.55	0.94
C2VA00748	1/2	1/2	2.09	2.37	1.99	0.87	0.55	0.94
C0SA00418	4mm	R 1/8	1.38	1.57	1.20	-	0.31	11mm
C0SA00618	6mm	R 1/8	1.38	1.57	1.22	-	0.31	11mm
C0SA00818	8mm	R 1/8	1.38	1.57	1.30	-	0.31	11mm
C0SA00628	6mm	R 1/4	1.57	1.79	1.45	-	0.39	15mm
C0SA00828	8mm	R 1/4	1.57	1.79	1.46	-	0.39	15mm

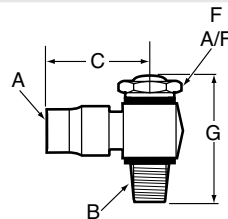
**C2WA0**

Banjo Flow Control (inch)  
(Regulating in)

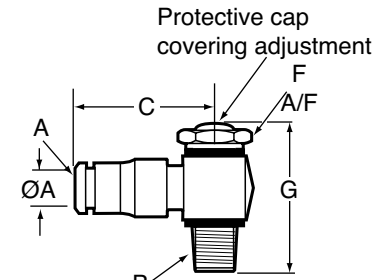


Part Number	ØD	T NPT or UNF Thrd	L		H	B	A	Hex
			min	max				
C2WA00110	1/8	10/32 UNF	1.07	1.19	0.85	0.44	0.14	0.31
C2WA00210	5/32	10/32 UNF	1.07	1.19	0.99	0.64	0.14	0.31
C2WA00410	1/4	10/32 UNF	1.07	1.19	1.13	0.69	0.14	0.31
C2WA00218	5/32	1/8	1.37	1.58	1.2	0.64	0.31	0.43
C2WA00318	3/16	1/8	1.37	1.58	1.24	0.66	0.31	0.43
C2WA00418	1/4	1/8	1.37	1.58	1.26	0.69	0.31	0.43
C2WA00518	5/16	1/8	1.37	1.58	1.3	0.74	0.31	0.43
C2WA00228	5/32	1/4	1.57	1.80	1.36	0.64	0.39	0.59
C2WA00328	3/16	1/4	1.57	1.80	1.39	0.66	0.39	0.59
C2WA00428	1/4	1/4	1.57	1.80	1.39	0.66	0.39	0.59
C2WA00528	5/16	1/4	1.57	1.80	1.45	0.74	0.39	0.59
C2WA00628	3/8	1/4	1.57	1.80	1.48	0.8	0.39	0.59
C2WA00438	1/4	3/8	1.84	2.17	1.56	0.69	0.43	0.75
C2WA00638	3/8	3/8	1.84	2.17	1.66	0.8	0.43	0.75
C2WA00738	1/2	1/2	1.84	2.17	1.78	0.87	0.43	0.75
C2WA00648	3/8	1/2	2.09	2.37	1.86	0.8	0.55	0.94
C2WA00748	1/2	1/2	2.09	2.37	1.99	0.87	0.55	0.94

**VB0 Series**



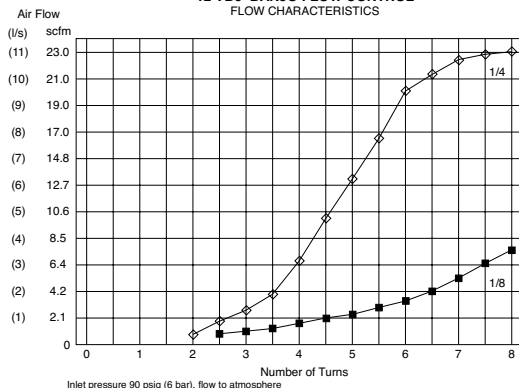
Part Number	A NPT Female	B NPT Male	C	F	G
12VB01818	1/8	1/8	0.83	9/16"	1.57
12VB02828	1/4	1/4	1.14	3/4"	1.83
12VB04848	1/2	1/2	1.53	11/16"	2.55



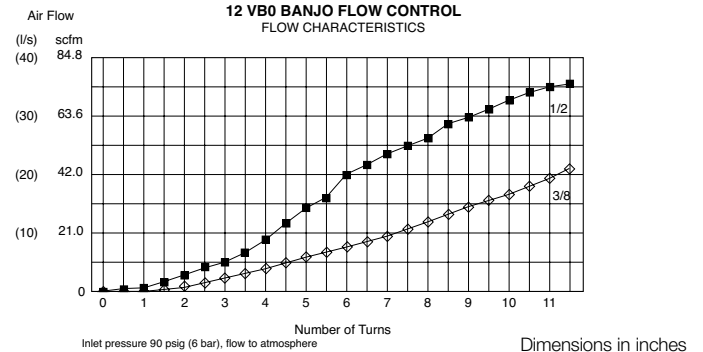
**VB0 Series**

Part Number	A O.D. Tube	B NPT or UNF Thread	C	F	G
12VB00210	5/32"	10-32 UNF	0.74	-	1.06
12VB00218	5/32"	1/8	0.88	9/16"	1.57
12VB00418	1/4"	1/8	0.91	9/16"	1.57
12VB00428	1/4"	1/4	0.99	3/4"	1.83
12VB00628	3/8"	1/4	1.23	3/4"	1.83
12VB00638	3/8"	3/8	1.29	7/8"	2.22
12VB00748	1/2"	1/2	1.56	11/16"	2.55

12 VB0 BANJO FLOW CONTROL FLOW CHARACTERISTICS



12 VB0 BANJO FLOW CONTROL FLOW CHARACTERISTICS



**High flow performance**  
**Immediate quality sealing using**  
**silicone free U-packing.**

### Technical data

#### Medium:

Compressed air

#### Operating pressure:

3 to 150 psig (.2 to 10 bar)

#### Fluid/Ambient temperature:

32°F to 140°F (0°C to 60°C)

Air supply must be dry enough to avoid ice formation at temperatures below 35°F

#### Tube size:

5/32, 1/4, 5/16, 3/8, 1/2 inch

Release buttons in grey  
 4, 6, 8 mm

Release buttons in red

#### Tubing type:

Nylon 11 or 12

Polyurethane 85, 95 or 98  
 durometer

#### Materials

Body: PBT,

tube ø 3/8 & 1/2 inch, 10 & 12 mm  
 aluminum

Seals: NBR (silicone free)

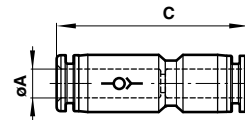
u-packing and O-rings

Release sleeve and backing ring:

POM

Grab-ring: stainless steel

Collar: ZNDC



### C20G and C00G

PIF/PIF Part Number	Function	A	C
C20GL0200 ●	tube/tube	5/32"	1.67"
C20GL0400 ●	tube/tube	1/4"	1.91"
C20GL0500 ●	tube/tube	5/16"	2.19"
C20GL0600 ●	tube/tube	3/8"	2.56"
C20GL0700 ●	tube/tube	1/2"	2.84"
C00GL0400 ●	tube/tube	4mm	42mm
C00GL0600 ●	tube/tube	6mm	47.5mm
C00GL0800 ●	tube/tube	8mm	55.5mm

\* Available only with collet tube connection

● In stock  
 ◆ Ships within one week

Dimensions in inches

**High flow performance**

Nickel plated brass components provide corrosion and contamination resistance and an extended life.

Pre applied thread sealant on all taper threads and recessed captive O-ring on parallel threads provides optimum rapid sealing.

Immediate quality sealing using silicone free U-packing.



**Technical data**

**Medium:**

Compressed air

**Operating pressure:**

150 psi (10 bar) max.

**Fluid/Ambient temperature:**

32°F to 140°F (0°C to 60°C)

Air supply must be dry enough to avoid ice formation at temperatures below 35°F

**Tube size:**

5/32, 1/4, 3/8, 1/2 inch

Release buttons in grey

4, 6, 8, 10, 12 mm

Release buttons in red

**Thread size:**

M5, 1/8, 1/4, 3/8 and 1/2

ISO G and ISO R

**Tubing types:**

Nylon 11 or 12

Polyurethane 85, 95 or 98 durometer

**Materials**

Body: nickel plated brass

Seals: NBR (silicone free)

u-packing and O-rings

Release sleeve and backing ring:

POM

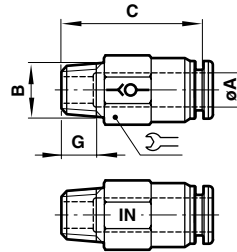
Grab-ring: stainless steel

Collar: ZNDC

Thread sealant: Threebond 2350B

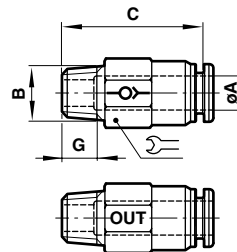
**C204G2** In-line non-return valve (in), taper thread

PIF/Male Thread Part Number	Ø A (inch)	B (inch)	C (inch)	(mm)	Weight (g)
C24G20418 ●	1/4"	1/8 NPT	1.36	1/2	17.8
C24G20428 ●	1/4"	1/4 NPT	1.36	9/16	21.8



**C204G3** In-line non-return valve (out), taper thread

Male thread/PIF Part Number	Ø A (inch)	B (inch)	C (inch)	(mm)	Weight (g)
C24G30418 ●	1/4"	X 1/8 NPT	1.36	1/2	17.8



- In stock
- ◆ Ships within one week

Dimensions in inches

**Permit free flow of air in one direction only**

**Simple, reliable design**

**Silicone free**

**Low cracking pressure**

### Technical data

#### Medium:

Compressed air, filtered, lubricated and non-lubricated

#### Operating pressure:

1.5 to 145 psig (0.1 to 10 bar)

#### Operating temperature:

0°F to 175°F\* (-20°C to +80°C)

\*Consult our Technical Service for use below 35°F (+2°C)

#### Materials

Body: aluminum - **T55**

Brass - **T56**

O-ring: nitrile rubber

Valve: POM

Spring: stainless steel

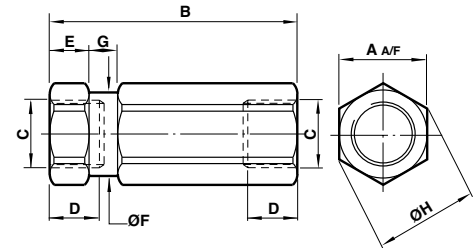


### T55 Series

Part Number NPT	Port Size	Flow Factor Cv**	Cracking pressure	Weight oz
T55A1800 ●	1/8	0.59	0.73	0.53
T55A2800 ●	1/4	1.35	0.73	0.88
T55A3800 ●	3/8	2.20	0.73	2.12
T55A4800 ●	1/2	3.70	0.73	2.82

Part Number	A	B	C	D	E	F	G	H
T55A1800 ●	0.55	1.67	0.13	–	0.28	0.54	0.16	0.59
T55A2800 ●	0.67	2.13	0.25	–	0.31	0.66	0.20	0.73
T55A3800 ●	0.94	2.48	0.38	–	0.35	0.93	0.28	1.02
T55A4800 ●	1.06	3.03	0.50	–	0.47	1.05	0.39	1.18

\*\* Cv measured in US gal/min.

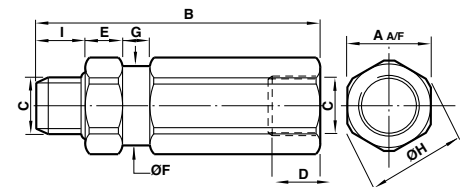


### T56 Series

Model NPT	Port Size	Flow Factor Cv**	Cracking pressure	Weight oz
T56A1800 ●	1/8	0.59	0.73	1.59
T56A2800 ●	1/4	1.23	0.73	2.82

Part Number	A	B	C	D	F	G	H	I
T56A1800 ●	0.55	1.93	1/8	–	0.54	0.16	0.59	0.37
T56A2800 ●	0.67	2.46	1/4	–	0.66	0.20		

\*\* Cv measured in US gal/min.



● In stock  
 ◆ Ships within one week

Dimensions in inches

**Line mounted general purpose regulators**  
**Captive regulating needle will not blow out when unscrewed**  
**Calibrated adjusting knob, can be locked**  
**Suitable for wall mounting**  
**High operating pressure**



**Technical data**

**Medium:**

Compressed air, filtered, lubricated and non-lubricated

**Operating pressure:**

5 to 230 psig (0.3 to 16 bar)

**Operating temperature:**

0°F to 175°F (-20°C to + 80°C)

(Alternative models to 300°F

[150°C])

Consult our Technical Service for use below

35°F (+2°C)

**Materials**

C/836, C/837, C/839:

Body, adjusting knob and locking ring: brass

C/840, C/855:

Body, adjusting knob and locking ring: aluminum

Seals: nitrile rubber.

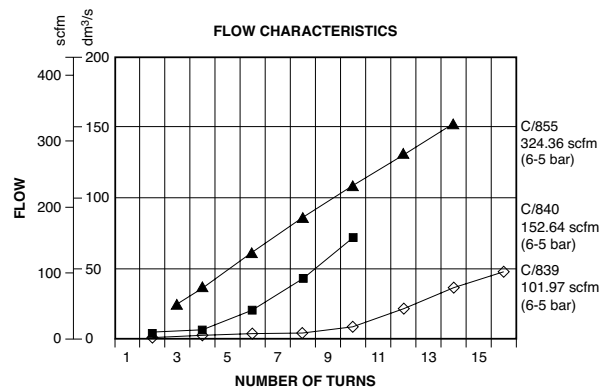
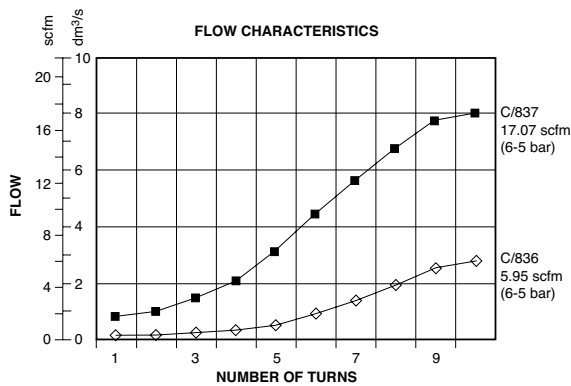
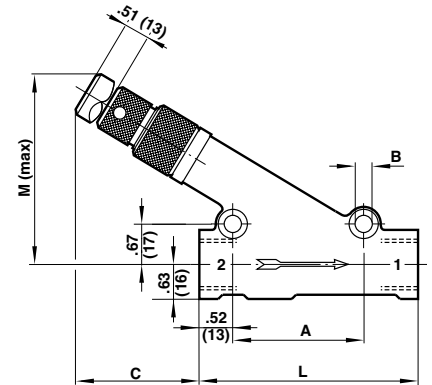
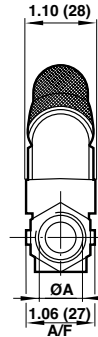


**C/800**

Part Number	Port NPT	Max. Regulating Flow Cv	Max. Free Flow Cv
C/836 ●	1/8	0.17	0.6
C/837 ●	1/4	0.49	1.0
C/839 ●	1/2	2.6	3.6
C/840 ●	3/4	3.7	6.5
C/855 ●	1	8.4	8.9

**Dimensions**

Part Number	Thread NPT	A	L	C	B	M (max)	D
C/836 ●	1/8	0.96	1.81	1.06	0.33	3.11	0.67
C/837 ●	1/4	1.63	2.36	0.98	0.20	1.46	0.87
C/839 ●	1/2	2.25	3.70	2.09	0.33	3.11	1.10
C/840 ●	3/4	2.99	4.69	2.60	0.34	4.09	1.38
C/855 ●	1	3.54	5.90	4.22	0.51	5.79	2.04



- In stock
- ◆ Ships within one week

Dimensions in inches

**High flow performance****In-line or panel mounting****Adjustment can be locked****Captive regulator needle will not blow out when unscrewed****Nickel plated brass components provide corrosion and contamination resistance and an extended life.****Immediate quality sealing using silicone free U-packing.****Technical data****Medium:**

Compressed air

**Operating pressure:**

150 psi (10 bar) max.

**Fluid/Ambient temperature:**

0°F to 140°F (-20°C to 60°C)

Air supply must be dry enough to avoid ice formation at temperatures below 35°F

**Tube size:**

5/32, 1/4, 5/16, 3/8, 1/2 inch

Release buttons in grey

**Tubing types:**

Nylon 11 or 12

Polyurethane 85, 95 or 98 durometer

**Materials**

Body: PBT

Seals: NBR (silicone free)

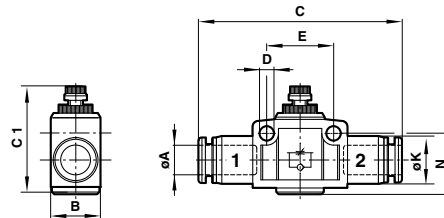
u-packing and O-rings

Release sleeve and backing ring:

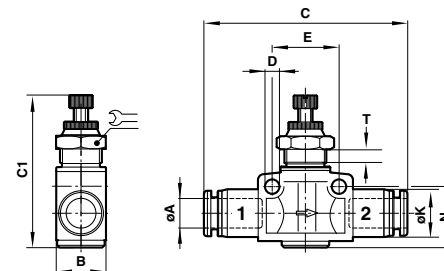
POM

Grab-ring: stainless steel

Collar: ZNDC

**C20GE In-line flow control**

Part Number	Ø A (inch)	B (inch)	C (inch)	C1 (inch)		D (inch)	E (inch)	ØK (inch)	N (inch)	Weight (g)
				min	max					
C20GE0200	5/32"	0.48	1.78	1.18	1.31	0.13	0.61	0.44	0.53	13
C20GE0400	1/4"	0.63	1.98	1.38	1.56	0.17	0.88	0.52	0.69	28
C20GE0500	5/16"	0.75	2.02	1.47	1.66	0.17	0.91	0.59	0.79	45
C20GE0600	3/8"	0.91	2.41	1.72	1.93	0.17	1.08	0.69	0.91	84
C20GE0700	1/2"	1.05	2.75	1.87	2.11	0.17	1.28	0.83	1.00	123

**C20GP In-line and panel mount flow control**

Part Number	Ø A (inch)	B (inch)	C (inch)	C1 (inch)		D (inch)	E (inch)	ØK (inch)	N (inch)	(mm)	Panel-hole min	T Panel thickness	Weight (g)
				min	max								
C20GP0200	5/32"	0.48	1.66	1.39	1.50	0.13	0.67	0.44	0.53	12	0.47	0.20	18
C20GP0400	1/4"	0.63	1.97	1.70	1.91	0.17	0.80	0.52	0.69	17	0.56	0.25	37
C20GP0500	5/16"	0.75	2.23	1.84	2.09	0.17	0.91	0.59	0.79	19	0.64	0.25	67
C20GP0600	3/8"	0.91	2.48	2.10	2.43	0.17	1.08	0.69	0.91	22	0.72	0.28	110
C20GP0700	1/2"	1.05	2.91	2.26	2.55	0.18	1.28	0.83	1.00	24	0.80	0.28	151

Dimensions in inches

- Compact size/low weight/ in-line units
- High flow performance
- Suitable for panel and wall mounting
- Adjustment can be locked
- Captive regulator needle will not blow out when unscrewed
- Adjusting knob position line



**Technical data**

**Medium:**

Compressed air, filtered, lubricated or non-lubricated, inert gases

**Operating pressure:**

15 to 145 psig (1-10 bar)

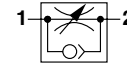
**Operating temperature:**

0° to 175°F\* (-20° to 80°C)

\*Consult our Technical Service for use below 35°F (2°C)

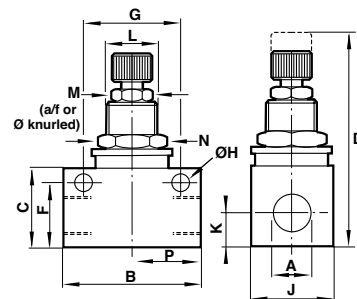
**Materials**

Aluminum alloy body, Nitrile seals, brass needle and internal parts, external parts in aluminum alloy.



**T1000**

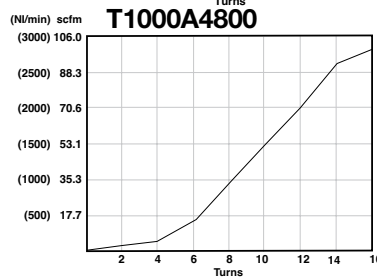
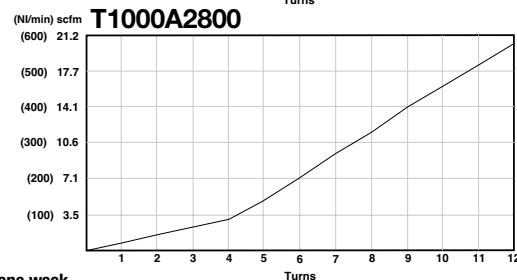
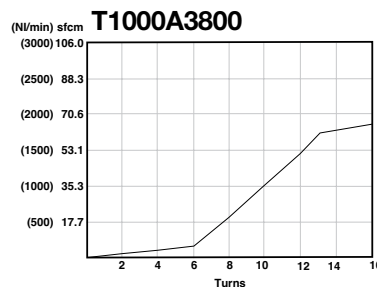
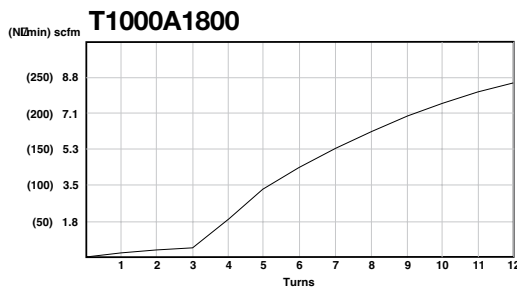
Part Number NPT	Part Number BSP	Cv Regulating NPT port	Cv Free Flow NPT port	Weight oz.
T1000A1800	T1000C1800	0.14	0.37	1.1
T1000A2800	T1000C2800	0.32	0.69	2.0
T1000A3800	T1000C3800	1.00	1.45	5.3
T1000A4800	T1000C4800	1.60	1.90	6.3



**Dimensions**

Product Number	A	B	C	D	F	G	H	J	K	L	M A/F	N	P Hole	Panel	Max Pane Thickness
T1000A1800	1/8 NPT	1.33	0.79	2.0	0.65	0.94	0.18	0.63	0.38	M12 x 1	0.39	0.55	0.67	0.49	0.16
T1000A2800	1/4 NPT	1.77	1.0	2.42	0.82	1.26	0.18	0.75	0.38	M14 x 1	0.39	0.67	0.89	0.57	0.16
T1000A3800	3/8 NPT	2.28	1.28	3.09	1.06	1.69	0.26	1.10	0.51	M20 x 1	0.39	0.94	1.14	0.81	0.16
T1000A4800	1/2 NPT	2.56	1.42	3.23	1.20	1.97	0.26	1.18	0.2	M20 x 1	0.39	0.94	1.28	0.81	0.16
T1000C1800	G1/8	1.33	0.78	2.0	0.65	0.94	0.17	0.62	0.31	M12 x 1	0.39	0.55	0.66	0.49	0.15
T1000C2800	G1/4	1.77	1.0	2.42	0.82	1.26	0.17	0.74	0.37	M14 x 1	0.39	0.66	0.88	0.57	0.15
T1000C3800	G3/8	2.28	1.27	3.9	1.06	1.69	0.25	1.1	0.51	M20 x 1	0.55	0.94	1.14	0.80	0.15
T1000C4800	G1/2	2.55	1.41	3.22	1.20	1.96	0.25	1.18	0.59	M20 x 1	0.55	0.94	1.27	0.80	0.15

**Flow vs Turns at 90 psi (6 bar)**



- In stock
- Ships within one week

Dimensions in inches

**Assists in complying with safety regulations**
**Tamper proof**
**Compact and safe design**
**Low pressure drop**
**Automatically resets after failure correction**
**High corrosion resistance**
**High air pressure rating**

**Technical data**
**Medium:**

Compressed air, filtered, lubricated and non lubricated inert gases

**Operating pressure:**

 Maximum 232 psi (16 bar)  
 Minimum according to hose length  
 Drop pressure at shut-off flow:  
 2 to 4.5 psi (0.14 or 0.3 bar)

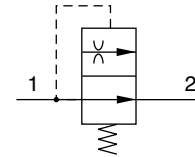
**Mounting:**

In-line two way valve. To be inserted between fixed air supply and flexible hose air line. See guidelines for typical installation.

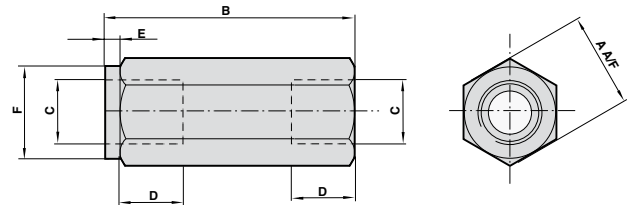
**Operating temperature:**

 0<sup>\*\*</sup> to 175° F (-20° to 80°C)  
 \*\*Consult our Technical Service for use below 35°F (2°C)  
 At low temperature ensure air fuse is not subjected to freezing conditions which may prevent its function.

**Materials**

 Body: aluminum  
 Internal parts: brass  
 Spring: stainless steel

**T60**

Part Number	Port size NPT	Drop pressure at shut off flow (psi)	Shut off flow rate at 100 psi	Flow at 100 psi DP 1 psi (scfm)
T60A2890 ●	1/4"	2.0	17.6	13.8
T60A2891 ●	1/4"	4.4	29.7	13.8
T60A3890 ●	3/8"	2.0	41.1	28.6
T60A3891 ●	3/8"	4.4	68.2	28.6
T60A4890 ●	1/2"	2.0	68.2	49.2
T60A4891 ●	1/2"	4.4	102.3	49.2
T60A6890 ●	3/4"	2.0	102.3	91.1
T60A6891 ●	3/4"	4.4	169.5	91.1
T60A8890 ●	1"	2.0	195.0	144
T60A8891 ●	1"	4.4	271.0	144
T60AB890 ●	1-1/2"	2.0	394.0	307
T60AB891 ●	1-1/2"	4.4	568.0	307


**Dimensions**

Part Number	A	B	C	D	E	F
T60A289* ●	0.81	2.01	1/4	0.39	0.12	0.81
T60A389* ●	0.94	2.44	3/8	0.41	0.20	0.94
T60A489* ●	1.25	3.07	1/2	0.59	0.20	1.25
T60A689* ●	1.25	3.54	3/4	0.56	0.20	1.25
T60A889* ●	2.00	4.65	1.0	0.66	0.20	2.00
T60AB89* ●	2.50	5.71	1.5	0.68	0.20	2.50

NPT: according to ANSI-B1.20.1.

Flow and pressure test conducted according to ISO-6358 test circuit. Mean measured flow values are provided at standard reference conditions.

\* "0" or "1"

 ● In stock  
 ◆ Ships within one week

Dimensions in inches



- Allows two independent signal sources to be connected to a common pilot line
- Can be used to perform an 'OR' logic function
- Selects the highest of two applied pressures
- Can be combined to operate from three or more sources
- Valves can be ganged together



**Technical data**

**Fluid:**

Compressed air, filtered, lubricated and non-lubricated, inert gases

**Operation:**

Shuttle valve

**Mounting:**

Through holes in valve body

**Operating Pressure:**

10 to 145 psi (0.7 - 10 bar)

**Operating Temperature:**

0° to 175°F (-20°\* to +80°C)

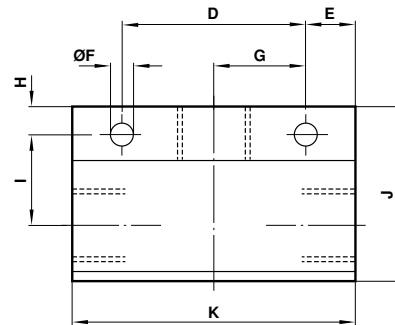
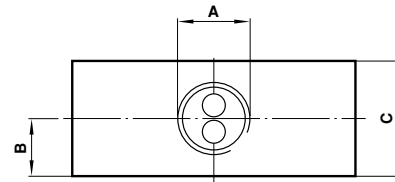
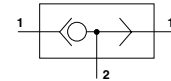
\*Consult our Technical Service for use below 35°F (2°C)

**Materials**

Body: Zinc

Ball: Nitrile

Seat: Brass



**Shuttle Valves**

Product Number	Port size NPT	Flow Factor Cv
T65A1800 ●	1/8"	0.42
T65A2800 ●	1/4"	0.64

NPT according to ANSI B1.20.1

**Dimensions**

Model Number	A (NPT)	B	C	D	E	F	G	H	I	J	K
T65A1800 ●	1/8	0.30	0.59	0.79	0.3	0.21	0.39	0.24	0.39	1.00	1.42
T65A2800 ●	1/4	0.39	0.79	0.98	0.49	0.21	0.49	0.31	0.47	1.18	2.00

- In stock
- ◆ Ships within one week

Dimensions in inches

Enables air to be exhausted quickly  
from air reservoirs and cylinders

Allows higher cylinder speeds to be  
achieved

Simple, compact design and  
construction

Very reliable in operation



### Technical data

#### Medium:

Compressed air, filtered, lubricated  
and non-lubricated

#### Operating pressure:

7 to 145 psi (0.5 to 10 bar)

#### Operating temperature:

-4°F to 176°F (-20°C to +80°C).

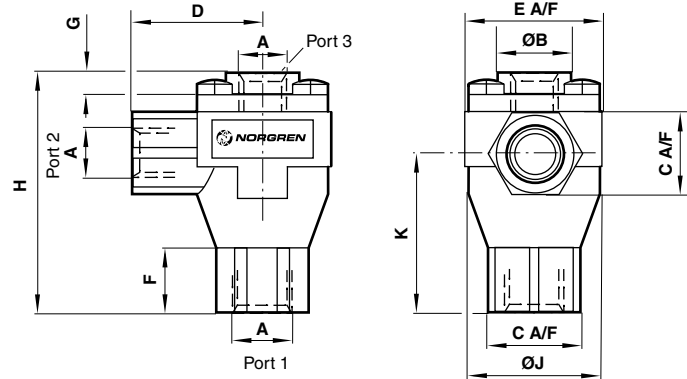
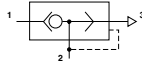
Consult our Technical Service for use  
below 35°F (+2°C).

#### Materials

Body & cover: zinc alloy  
aluminum alloy

Seals: nitrile

O-ring: nitrile



### T70 NPT

Part Number	Inlet port NPT	Outlet port NPT	Exhaust port NPY	Cv Flow Factor Direction 1 - 2*	Cv Flow Factor Direction 2 - 3	Volume	Fill	Exhaust
T70A1800	1/8"	1/8"	1/8"	0.9	1.8	150 cc	0.036	0.021
T70A2800	1/4"	1/4"	1/4"	1.9	2.5	150 cc	0.023	0.017
T70A3800	3/8"	3/8"	3/8"	3.8	5.5	1500 cc	0.110	0.080
T70A4800	1/2"	1/2"	1/2"	5.3	5.9	15,000 cc	0.460	0.480

### T70 ISO G

Part Number	Inlet port ISO G	Outlet port ISO G	Exhaust port ISO G	Cv Flow Factor Direction 1 - 2*	Cv Flow Factor Direction 2 - 3	Volume	Fill	Exhaust
T70C2800	1/4"	1/4"	1/4"	1.9	2.5	150 cc	0.023	0.017
T70C4800	1/2"	1/2"	1/2"	5.3	5.9	15,000 cc	0.460	0.480

### Dimensions NPT

Part Number	A	ØB	C A/F	D	E A/F	F	G	H	ØJ	K
T70A1800	1/8"	0.75	0.75	1.10	1.18	0.60	0.14	2.09	1.14	1.40
T70A2800	1/4"	0.75	0.75	1.10	1.18	0.60	0.14	2.09	1.14	1.40
T70A3800	3/8"	1.18	1.18	1.57	1.81	0.61	0.16	2.89	1.81	1.89
T70A4800	1/2"	1.18	1.18	1.57	1.81	0.61	0.16	2.89	1.81	1.89

\* Flow factor measured at 87 psi (6 bar) (inlet) guideline direction

### Dimensions ISO G

Part Number	A	ØB	C A/F	D	E A/F	F	G	H	ØJ	K
T70C2800	1/4"	0.75	0.75	1.10	1.18	0.60	0.14	2.09	1.14	1.40
T70C4800	1/2"	1.18	1.18	1.57	1.81	0.61	0.16	2.89	1.81	1.89

\* Flow factor measured at 87 psi (6 bar) (inlet) guideline direction

- In stock
- ◆ Ships within one week

Dimensions in inches

### Nylon inch tube

Recommended for use with Pneufit Push-In Fittings

Manufactured from Nylon 11

UL-94HB flame retardant rating

Heat and light stabilized

Shipped in 100 ft. coils (30m) packed in polyethylene bags

#### Technical data

**Fluids:**

Compressed air, nitrogen and inert gases

**Temperature Rating:**

-60°F to 200°F (-5°C to 93°C)\*

**Vacuum Rating:**

To 28° Hg (711 mm Hg)

**Diameter Tolerances:**

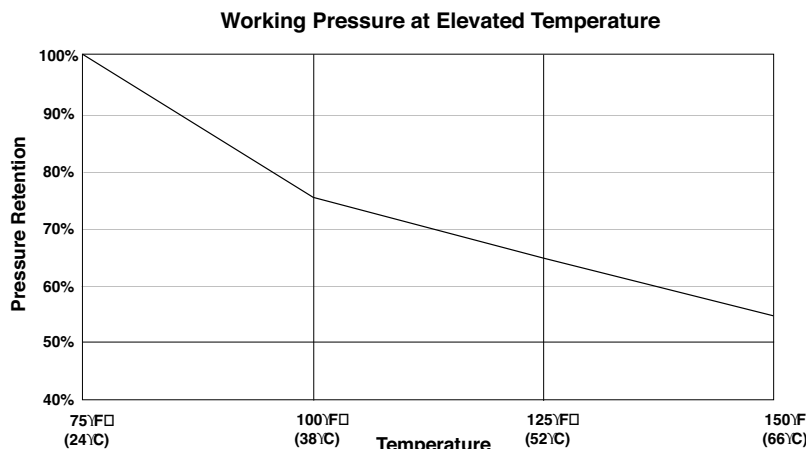
+ 0.002"; -0.004"

**Hardness:**

78 Rockwell R

**Material**

Nylon 11



### Nylon Inch Tube

Part Number and Color			Tubing		Maximum Working Pressure -40°F to 70°F psig	Minimum Bend Radius (in.)
Natural	Black	Red	OD (in.)	ID (in.)		
PB0051100 ●	PB0751100 ●	PB0151100 ●	1/8	0.093	225	0.38
PB0052100 ●	PB0752100 ●	PB0152100 ●	5/32	0.106	275	0.50
PB0054100 ●	PB0754100 ●	PB0154100 ●	1/4	0.180	250	0.88
PB0056100 ●	PB0756100 ●	PB0156100 ●	3/8	0.275	220	1.50
PB0057100 ●	PB0757100 ●	PB0157100 ●	1/2	0.375	200	2.00

### Polyurethane Tube

Recommended for use with Pneufit Push-In Fittings

Manufactured from Polyurethane

Shipped 100' coils packed in Polyethylene bags

#### Technical data

**Fluid:**

Compressed air

**Temperature Rating:**

-40°F to 165°F (-40°C to 73°C)

**Vacuum Rating:**

To 28° Hg (711 mm Hg)

**Diameter Tolerances:**

± 0.005"

**Material**

95 Durometer Polyurethane



### Polyurethane Tube

Part Number and Color			Tubing		Maximum Working Pressure at 75°F psig	Minimum Bend Radius (in.)
Natural	Black	Trans Red	OD (in.)	ID (in.)		
PW0051100 ●	PW0751100 ●	PW0151100 ●	1/8"	.066	233	1/4"
PW0052100 ●	PW0752100 ●	PW0152100 ●	5/32"	.094	176	3/8"
PW0054100 ●	PW0754100 ●	PW0154100 ●	1/4"	.160	148	1/2"
PW0056100 ●	PW0756100 ●	PW0156100 ●	3/8"	.245	147	7/8"

- In stock
- ◆ Ships within one week

Dimensions in inches

### Polyethylene tubing (LDPE)

Manufactured from FDA approved acetal material, and are certified by NSF (51 & 61), WRAS and SK-Zert for use with water and food.

Suitable for use in medical and analytical equipment including fluid and precision gas control.

Appropriate for inert gas and industrial air applications.



### Technical data

#### Medium:

Air and liquid

### LDPE Tubing

Part Number and Color			OD/ID	Length
Natural	Black	Red		
PE0051100 ●	PE0751100 ●	PE0151100 ●	1/8 x 0.062	100'
PE0054100 ●	PE0754100 ●	PE0154100 ●	1/4 x 0.170	100'
PE0056100 ●	PE0756100 ●	PE0156100 ●	3/8 x 1/4	100'
PE0057100 ●	PE0757100 ●	PE0157100 ●	1/2 x 3/8	100'

### Tube Cutter

Makes clean, square cuts in Nylon tubing that are necessary for leak free connections.

Small size (3" long, 1" wide, 1" high) makes it easy to use and convenient to carry.

Spring actuation keeps it closed when not in use.



### Tube Cutter

Part Numbers	Replacement blades (5 pack)
M/3314 (red) ●	M/32009 ●
M/3315 (black) ●	M/32009 ●

### TUBE MOUNT - 2 CHANNEL

Save installation time - tube mounts provide quick, secure mounting and exact spacing between tubes.

Tubing snaps into channels for clean, organized circuits.

Tube mounts are drilled for machine screw mounting.



### Tube Mount - 2 Channel

Part Number	Tube Size	Mounting Screw Size	Color
94910006 ●	1/4"	#4	Black
94910010 ●	3/8"	#6	Black
94910012 ●	1/2"	#6	Black

● In stock  
◆ Ships within one week

Dimensions in inches

**Rotowink indicators**

Indicate the presence or absence of a pneumatic signal

Wide angle of visibility

Contrasting color combinations for positive identification



**Rotowink Indicators**

Part Number	Port Size Male	Operating pressure psi (bar)	Max Pressure psi (bar)	Actuation Pressure psi (bar)	Deactuation Pressure psi (bar)	Mounting hole Inch (mm)	Colors	
							Normal	Actuated
5VS-201-000 ●	1/8"	15 to 150 (1 to 10.3)	150 (10.3)	15 (1)	2 (.14)	.72 (18.3)	Black	Red
5VS-202-000 ●	1/8"	15 to 150 (1 to 10.3)	150 (10.3)	15 (1)	2 (.14)	.72 (18.3)	Black	Green
5VS-212-000 ●	1/8"	15 to 150 (1 to 10.3)	150 (10.3)	15 (1)	2 (.14)	.72 (18.3)	Red	Green
5VS-221-000 ●	1/8"	15 to 150 (1 to 10.3)	150 (10.3)	15 (1)	2 (.14)	.72 (18.3)	Green	Red

**Miniature Inline Filters**

25-micron element rating

Connections for 1/8" or 5/32" ID flexible tubing

Direct in-line mounting

Protection against particulate contamination for miniature pneumatic systems



Part number	Flexible tube connection
4LF-010-000 ●	1/8" ID

- In stock
- ◆ Ships within one week

Dimensions in inches

# LIFE SCIENCE



Our market-driven product portfolio, designed to meet the demanding performance requirements in medical devices, diagnostic and analytical instrumentation applications, features niche or platform products and technologies, supported by regular new product launches.

Renowned in the industry are FAS and Kloehn specializing in miniature solenoid valve technology, microfluidics, precision liquid handling solutions and analytical instrument solutions respectively.

# Fast Find **Guide**

## KLOEHN PUMPS & VALVES



## KLOEHN SYRINGES



Designed with the flexibility and versatility to meet a variety of system configurations.

Can be used as a stand alone controller, or integrated into system configurations.

Capable of simple closed loop control of an external quantity or process without the need of an external controller for direction.

30mm stroke and available in two resolutions.

The pump can be coupled with a variety of valves and syringes to meet specific needs.

Pump communications are compatible with other Kloehn devices.



### Technical data

#### Height

5"

#### Width

2.55"

#### Depth

4.6" (face plate to back plate)

#### Weight

2.5 lbs

#### Operating Temperature

32°F to 131°F (0°C to 55°C)

#### Operating Humidity

5 to 95% RH, non-condensing at 131°F (55°C)

#### Storage Temperature

13°F to 185°F (-25° to 85°C)WEEE & RoHS compliant

#### Operation

Any orientation

#### Mounting Holes

Top and bottom

#### Two Resolutions Available

(6,000 and 12,000 increments)

#### Speed\*

(Max. – 8000 steps/sec.)

(Default – 2500 steps/sec.)

\*For 6,000 options consult data sheets

#### Syringe Size

50µl to 5ml

#### Valve Type

2 way to 6 way

#### Interface

RS-485 or RS-232

communications

Data terminal or OEM protocol

1200 to 38.4K baud, 8 data bits,

1 stop bit, no parity, half duplex

Three inputs, three outputs

Digital voltmeter capability

Switched and wired device

address

I / O expansion

#### Operation

24V nominal (20V to 30V) (with a maximum power ripple of 720mv peak to peak).

Power Consumption

25 watts; 6 watts idle.

### Syringe Pump

Resolution		Valve feature		Driver & control feature		Pump
12K	6K	None	Rotary	None	Driver & control board	Model number
X	–	–	X	X	–	23256 ◆
X	–	–	X	–	X	23254 ◆



### V3 Rotary Valve

Wetted material option - PPS, XP-113 and PTFE

Configuration	Orifice	Distribution model no.	Non-distribution model no.
3-WAY	0.59"	23324 ●	23562 ●
6-WAY	1.00mm	23327 ●	–

For additional options visit [www.norgren.com](http://www.norgren.com)

- In stock
- ◆ Ships within one week



### V3 Rotary Valve

Wetted Material Option - PCTFE and PTFE

Configuration	Orifice	Distribution model no.	Non-distribution model no.	Port thread
3-WAY	0.031"	25393 ●	28391 ●	1/4-28 UNF
3-WAY	0.031"	25394 ●	28393 ●	1/4-28 UNF
3-WAY	0.031"	25395 ●	28395 ●	1/4-28 UNF
4-WAY	0.031"	25398 ●	28401 ●	1/4-28 UNF
6-WAY	0.031"	25401 ●	—	1/4-28 UNF
6-WAY	1mm	25402 ●	—	1/4-28 UNF

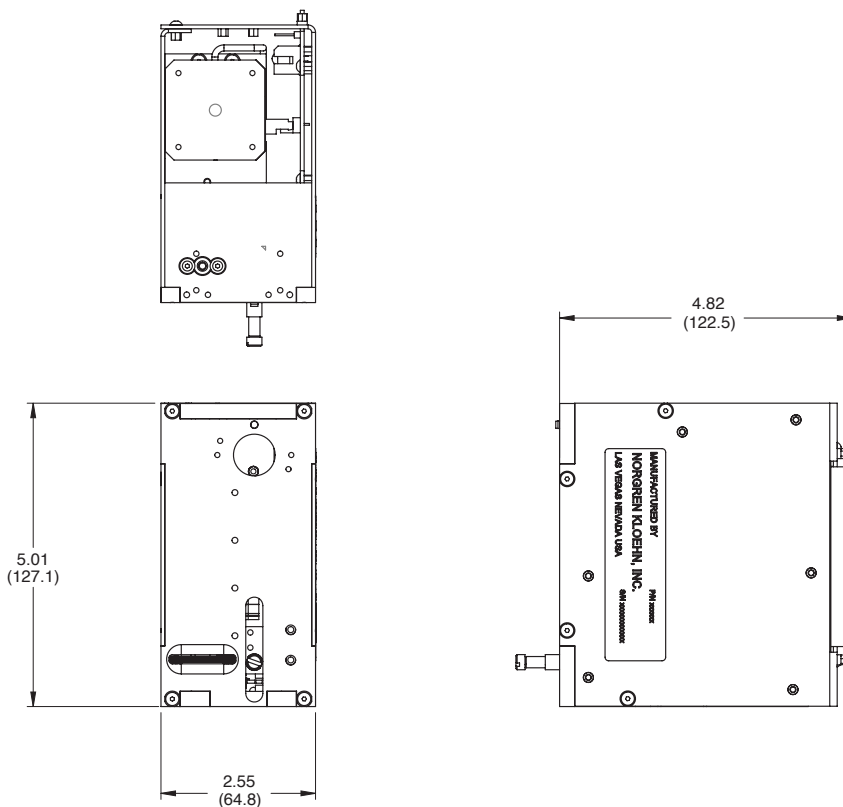
For additional options visit [www.norgren.com](http://www.norgren.com)

### V3 Rotary Valve

Wetted Material Option - Alumina ceramic, PEEK, FFKM and PTF

Configuration	Orifice	Distribution model no.	Non-distribution model no.
6-WAY	0.031"	30153 ●	30158 ●

For additional options visit [www.norgren.com](http://www.norgren.com)



- In stock
- ◆ Ships within one week

Designed with the flexibility and versatility to meet a variety of system configurations.

Can be used as a stand alone controller, or integrated into system configurations.

Capable of simple closed loop control of an external quantity or process without the need of an external controller for direction.

60mm stroke and available in three resolutions.

The pump can be coupled with a variety of valves and syringes to meet specific needs.

Pump communications are compatible with other Kloehn devices.



### Technical data

#### Height

10"

#### Width

2.55"

#### Depth

4.75" (face plate to back plate)

4.9" to card edge

#### Weight

5.14 lbs.

#### Operating Temperature

32°F to 131°F (0°C to 55°C)

#### Operating Humidity

5 to 95% RH, non-condensing at

131°F (55°C)

#### Storage Temperature

13°F to 185°F (-25° to 85°C)

WEEE & RoHS compliant

#### Operation

Any orientation

#### Mounting Holes

Top and bottom as well as on the face plate

#### Resolutions Available

(12000; 24000; and

48000 increments)

Speed\*

(Max. – 10000 steps/sec.;

min. 60 steps / sec.)

(Default – 5000 steps/sec.)

\*For 12,000 options consult data

sheets

#### Syringe Size

25µl to 50ml

#### Valve Type\*

2 way to 12 way

Available with no valve; solenoid

valve; or rotary valve

\*For additional options consult data sheets.

#### PC board choices:

Base board (sensor array and

motor pin out only - no motor

drivers or control electronics).

#### Driver board

(sensor array and motor drivers

only, no control electronics).

Driver & Control boards (fully

functional motor drivers and control electronics).

#### Interface

RS-485 or RS-232

communications

Data terminal or OEM protocol

1200 to 38.4K baud, 8 data bits,

1 stop bit, no parity, half duplex

Three inputs, three output ports

#### Digital voltmeter

Switched and wired device

address

#### Operation

24V (with a maximum power

voltage ripple of 720mv peak-to-

peak).

#### Power Consumption

40 watts, 11 watts idle.

### Syringe Pump

Resolution	Valve feature			Driver & control feature			Pump Model number			
	48K	24K	12K	None	Solenoid	Rotary		Basic	Driver board	Driver & control board
X	-	-	-	-	-	X	-	-	X	55022 ◆
-	X	-	-	-	-	X	-	-	X	55122 ◆

For additional options visit [www.norgren.com](http://www.norgren.com)

● In stock

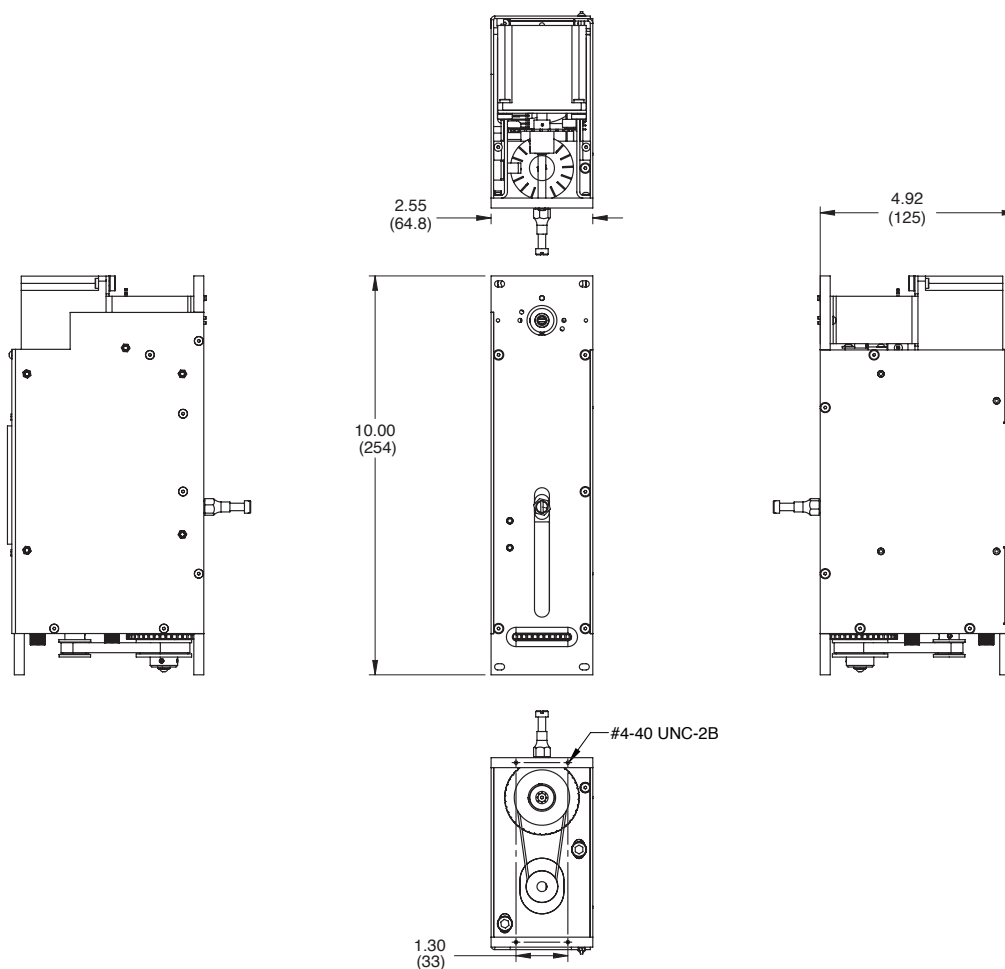
◆ Ships within one week

### V6 Rotary Valves

Configuration	Orifice	Distribution model no.	Non-distribution model no.	Port thread
3-WAY	0.031"	17616 ●	17615 ●	1/4-28 UNF
3-WAY	0.031"	18189 ●	18192 ●	1/4-28 UNF
6-WAY	0.031"	17619 ●	—	1/4-28 UNF
6-WAY	0.031"	18193 ●	—	1/4-28 UNF

For additional options visit [www.norgren.com](http://www.norgren.com)

Dimensions in. (mm)



- In stock
- ◆ Ships within one week

Designed to couple to a V3 Syringe Pump and standard valve assembly.

For instruments and analyzers serving clinical, medical, and analytical instrumentation applications.

An array of syringe volumes are available that can be dispensed and/or aspirated over a full 3cm stroke.



## Technical data

### Physical

Length (Dispensed)  
2.37"; (Aspirated): 3.55"  
Thread Type  
1/4-28 UNF-2A  
Test Pressure  
80 psi

### Environmental

Operating Temperature  
50°F to 104°F (10°C to 40°C)  
Storage Temperature  
13°F to 185°F (-25° to 85°C)  
Relative Humidity  
Up to 100%

### Chemical

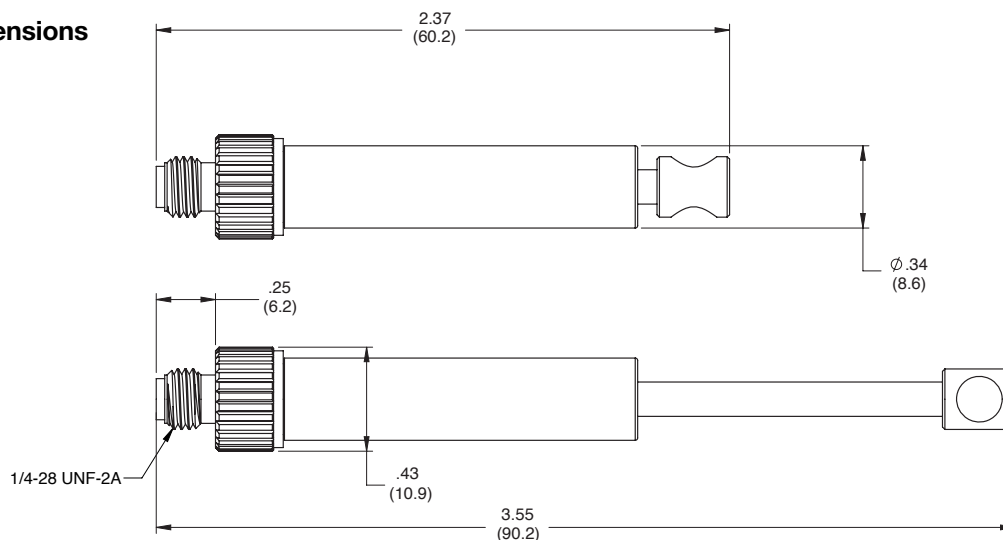
Standard Syringe Seal  
PTFE  
Wetted Materials  
Borosilicate Glass, PCTFE, PTFE  
(or UHMW) (smaller sizes ZDV tips  
are PTFE coated 316L)  
Syringe tips  
Lubricated with laboratory-  
grade Silicone

## Syringe sizes

Syringe Sizes	50µl	100µl	250µl	500µl	1.0ml	2.5ml	5.0ml
Orifice Diameter (in)	0.023	0.023	0.031	0.031	0.073	0.073	0.073
Syringe (End Cap) Diameter (in)	0.43	0.43	0.43	0.43	0.43	0.56	0.72
*Max Drag Force (lbs)	PTFE	3.0	3.0	3.0	3.0	3.0	6.0
	UHMW	7.0	7.0	7.0	7.0	7.0	10.0


\*Add 1 pound drag force to non-lubricated plunger tip requests.

## Dimensions



- In stock
- ◆ Ships within one week

## Models



V3 Model Numbers	Volume	Laboratory grade lubricant	Orifice size inch	Plunger tip material	Plunger tip configuration	Wetted materials
23164 ●	50 µL	Silicone	0.023	PTFE	Standard - Flat	Borosilicate glass, PCTFE UHMW
24411 ●	50 µL	Silicone	0.023	Special K-Tip, UHMW	Standard - Flat	Borosilicate glass, PCTFE UHMW
27958 ●	50 µL	Silicone	0.023	Special K-Tip, UHMW	Zero Dead Volume	Borosilicate glass, PCTFE UHMW
27960 ●	50 µL	Silicone	0.023	PTFE	Zero Dead Volume	Borosilicate glass, PCTFE UHMW
22007 ●	50 µL	No lubricant - Dry	0.023	PTFE	Standard - Flat	Borosilicate glass, PCTFE UHMW
23165 ●	100 µL	Silicone	0.023	PTFE	Standard - Flat	Borosilicate glass, PCTFE UHMW
24412 ●	100 µL	Silicone	0.023	Special K-Tip, UHMW	Standard - Flat	Borosilicate glass, PCTFE UHMW
27959 ●	100 µL	Silicone	0.023	Special K-Tip, UHMW	Zero Dead Volume	Borosilicate glass, PCTFE UHMW
27961 ●	100 µL	Silicone	0.023	PTFE	Zero Dead Volume	Borosilicate glass, PCTFE UHMW
22008 ●	100 µL	No lubricant - Dry	0.023	PTFE	Standard - Flat	Borosilicate glass, PCTFE UHMW
23166 ●	250 µL	Silicone	0.031	PTFE	Standard - Flat	Borosilicate glass, PCTFE UHMW
24413 ●	250 µL	Silicone	0.031	Special K-Tip, UHMW	Standard - Flat	Borosilicate glass, PCTFE UHMW
28006 ●	250 µL	Silicone	0.031	PTFE	Zero Dead Volume	Borosilicate glass, PCTFE UHMW
28011 ●	250 µL	Silicone	0.031	Special K-Tip, UHMW	Zero Dead Volume	Borosilicate glass, PCTFE UHMW
22009 ●	250 µL	No lubricant - Dry	0.031	PTFE	Standard - Flat	Borosilicate glass, PCTFE UHMW
23167 ●	500 µL	Silicone	0.031	PTFE	Standard - Flat	Borosilicate glass, PCTFE UHMW
24414 ●	500 µL	Silicone	0.031	Special K-Tip, UHMW	Standard - Flat	Borosilicate glass, PCTFE UHMW
28007 ●	500 µL	Silicone	0.031	PTFE	Zero Dead Volume	Borosilicate glass, PCTFE UHMW
28012 ●	500 µL	Silicone	0.031	Special K-Tip, UHMW	Zero Dead Volume	Borosilicate glass, PCTFE UHMW
22010 ●	500 µL	No lubricant - Dry	0.031	PTFE	Standard - Flat	Borosilicate glass, PCTFE UHMW
23168 ●	1 mL	Silicone	0.073	PTFE	Standard - Flat	Borosilicate glass, PCTFE UHMW
24415 ●	1 mL	Silicone	0.073	Special K-Tip, UHMW	Standard - Flat	Borosilicate glass, PCTFE UHMW
28008 ●	1 mL	Silicone	0.073	PTFE	Zero Dead Volume	Borosilicate glass, PCTFE UHMW
28013 ●	1 mL	Silicone	0.073	Special K-Tip, UHMW	Zero Dead Volume	Borosilicate glass, PCTFE UHMW
22011 ●	1 mL	No lubricant - Dry	0.073	PTFE	Standard - Flat	Borosilicate glass, PCTFE UHMW
23169 ●	2.5 mL	Silicone	0.073	PTFE	Standard - Flat	Borosilicate glass, PCTFE UHMW
24416 ●	2.5 mL	Silicone	0.073	Special K-Tip, UHMW	Standard - Flat	Borosilicate glass, PCTFE UHMW
28009 ●	2.5 mL	Silicone	0.073	PTFE	Zero Dead Volume	Borosilicate glass, PCTFE UHMW
28014 ●	2.5 mL	Silicone	0.073	Special K-Tip, UHMW	Zero Dead Volume	Borosilicate glass, PCTFE UHMW
22012 ●	2.5 mL	No lubricant - Dry	0.073	PTFE	Standard - Flat	Borosilicate glass, PCTFE UHMW
23170 ●	5 mL	Silicone	0.073	PTFE	Standard - Flat	Borosilicate glass, PCTFE UHMW
24417 ●	5 mL	Silicone	0.073	Special K-Tip, UHMW	Standard - Flat	Borosilicate glass, PCTFE UHMW
28010 ●	5 mL	Silicone	0.073	PTFE	Zero Dead Volume	Borosilicate glass, PCTFE UHMW
28015 ●	5 mL	Silicone	0.073	Special K-Tip, UHMW	Zero Dead Volume	Borosilicate glass, PCTFE UHMW
22013 ●	5 mL	No lubricant - Dry	0.073	PTFE	Standard - Flat	Borosilicate glass, PCTFE UHMW

● In stock

◆ Ships within one week

Designed to couple to a V6 Syringe Pump and standard valve assembly.

For instruments and analyzers serving clinical, medical, and analytical instrumentation applications.

An array of syringe volumes are available that can be dispensed and/or aspirated over a full 6cm stroke.



### Technical data

#### Physical

Length (Dispensed)  
4.37"; (Aspirated):6.73"  
Thread Type  
¼-28 UNF-2A  
Test Pressure  
80 psi

#### Environmental

Operating Temperature  
50°F to 104°F (10°C to 40°C)  
Storage Temperature  
13°F to 185°F (-25° to 85°C)  
Relative Humidity  
Up to 100%

#### Chemical

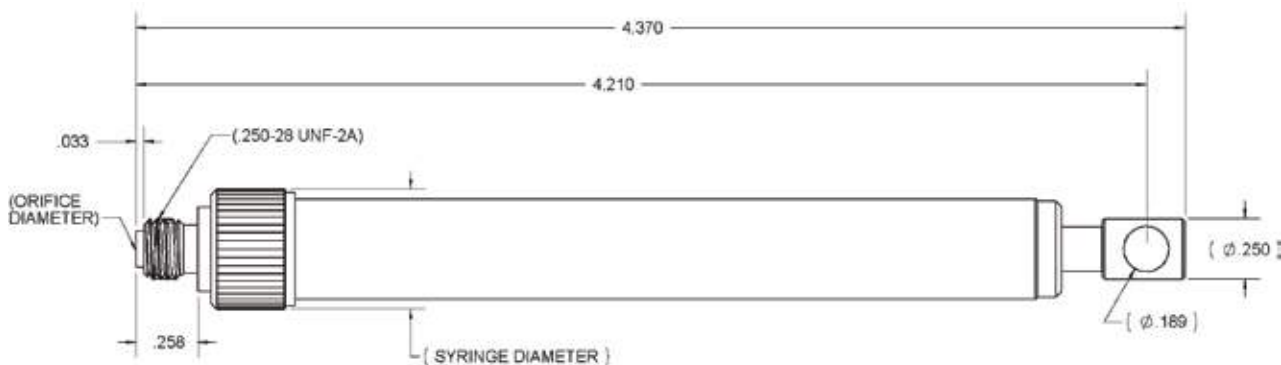
Standard Syringe Seal  
PTFE  
Wetted Materials  
Borosilicate Glass, PCTFE, PTFE  
(or UHMW) (smaller sizes ZDV  
tips are PTFE coated 316L)  
Syringe Tips  
Lubricated with laboratory-  
grade Silicone

### Syringe sizes

Syringe Sizes	10µl	25µl	50µl	100µl	250µl	500µl	1.0ml	1.25ml	2.5ml	5.0ml	10ml	25ml	50ml
Orifice Diameter (in)	.016	.016	.024	.032	.039	.076	.076	.076	.076	.076	.076	.076	.076
Syringe (End Cap) Diameter (in)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.6	.75	1.12	1.5
*Max Drag Force (lbs)	PTFE	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	6.0	6.0	8.0	8.0
	UHMW	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	10.0	10.0	15.0	15.0


\*Add 1 pound drag force to non-lubricated plunger tip requests.

### Dimensions



- In stock
- ◆ Ships within one week

## Models



V6 Model Numbers	Volume	Laboratory grade lubricant	Orifice size inch	Plunger tip material	Plunger tip configuration	Wetted materials
18883 ●	10 µL	Silicone	0.016	PTFE	Standard - Flat	Borosilicate glass, PCTFE, PTFE
17591 ●	25 µL	Silicone	0.016	PTFE	Standard - Flat	Borosilicate glass, PCTFE, PTFE
26662 ●	25 µL	Silicone	0.027	Special K-Tip UHMW	Standard - Flat	Borosilicate glass, PCTFE UHMW
17592 ●	50 µL	Silicone	0.024	PTFE	Standard - Flat	Borosilicate glass, PCTFE, PTFE
24681 ●	50 µL	Silicone	0.024	Special K-Tip UHMW	Standard - Flat	Borosilicate glass, PCTFE UHMW
17593 ●	100 µL	Silicone	0.032	PTFE	Standard - Flat	Borosilicate glass, PCTFE, PTFE
24518 ●	100 µL	Silicone	0.032	Special K-Tip UHMW	Standard - Flat	Borosilicate glass, PCTFE UHMW
17594 ●	250 µL	Silicone	0.039	PTFE	Standard - Flat	Borosilicate glass, PCTFE, PTFE
19509 ●	250 µL	Silicone	0.039	PTFE	Zero Dead Volume	Borosilicate glass, PCTFE, PTFE
19513 ●	250 µL	Silicone	0.039	Special K-Tip UHMW	Standard - Flat	Borosilicate glass, PCTFE UHMW
27543 ●	250 µL	Silicone	0.039	Special K-Tip UHMW	Zero Dead Volume	Borosilicate glass, PCTFE UHMW
17595 ●	500 µL	Silicone	0.076	PTFE	Standard - Flat	Borosilicate glass, PCTFE, PTFE
19537 ●	500 µL	Silicone	0.076	PTFE	Zero Dead Volume	Borosilicate glass, PCTFE, PTFE
24694 ●	500 µL	Silicone	0.076	Special K-Tip UHMW	Standard - Flat	Borosilicate glass, PCTFE UHMW
25427 ●	500 µL	Silicone	0.076	Special K-Tip UHMW	Zero Dead Volume	Borosilicate glass, PCTFE UHMW
17596 ●	1 mL	Silicone	0.076	PTFE	Standard - Flat	Borosilicate glass, PCTFE, PTFE
24690 ●	1 mL	Silicone	0.076	Special K-Tip UHMW	Standard - Flat	Borosilicate glass, PCTFE UHMW
25413 ●	1 mL	Silicone	0.076	Special K-Tip UHMW	Zero Dead Volume	Borosilicate glass, PCTFE UHMW
25429 ●	1 mL	Silicone	0.076	PTFE	Zero Dead Volume	Borosilicate glass, PCTFE, PTFE
17597 ●	1.25 mL	Silicone	0.076	PTFE	Standard - Flat	Borosilicate glass, PCTFE, PTFE
25431 ●	1.25 mL	Silicone	0.076	PTFE	Zero Dead Volume	Borosilicate glass, PCTFE, PTFE
25438 ●	1.25 mL	Silicone	0.076	Special K-Tip UHMW	Zero Dead Volume	Borosilicate glass, PCTFE UHMW
26652 ●	1.25 mL	Silicone	0.076	Special K-Tip UHMW	Standard - Flat	Borosilicate glass, PCTFE UHMW
17598 ●	2.5 mL	Silicone	0.076	PTFE	Standard - Flat	Borosilicate glass, PCTFE, PTFE
19539 ●	2.5 mL	Silicone	0.076	PTFE	Zero Dead Volume	Borosilicate glass, PCTFE, PTFE
24685 ●	2.5 mL	Silicone	0.076	Special K-Tip UHMW	Standard - Flat	Borosilicate glass, PCTFE UHMW
25388 ●	2.5 mL	Silicone	0.076	Special K-Tip UHMW	Zero Dead Volume	Borosilicate glass, PCTFE UHMW
17599 ●	5 mL	Silicone	0.076	PTFE	Standard - Flat	Borosilicate glass, PCTFE, PTFE
18463 ●	5 mL	Silicone	0.076	PTFE	Zero Dead Volume	Borosilicate glass, PCTFE, PTFE
19536 ●	5 mL	Silicone	0.076	Special K-Tip UHMW	Standard - Flat	Borosilicate glass, PCTFE UHMW
24691 ●	5 mL	Silicone	0.076	Special K-Tip UHMW	Zero Dead Volume	Borosilicate glass, PCTFE UHMW
17600 ●	10 mL	Silicone	0.076	PTFE	Standard - Flat	Borosilicate glass, PCTFE, PTFE
18469 ●	10 mL	Silicone	0.076	PTFE	Zero Dead Volume	Borosilicate glass, PCTFE, PTFE
18737 ●	10 mL	Silicone	0.089	PTFE	Standard - Flat	Borosilicate glass, PCTFE, PTFE
19110 ●	10 mL	Silicone	0.076	Special K-Tip UHMW	Standard - Flat	Borosilicate glass, PCTFE UHMW
24139 ●	10 mL	Silicone	0.076	Special K-Tip UHMW	Zero Dead Volume	Borosilicate glass, PCTFE UHMW
23734 ●	25 mL	Silicone	0.076	PTFE	Zero Dead Volume	Borosilicate glass, PCTFE, PTFE
24688 ●	25 mL	Silicone	0.076	Special K-Tip UHMW	Standard - Flat	Borosilicate glass, PCTFE UHMW
17601 ●	25 mL	Silicone	0.089	PTFE	Standard - Flat	Borosilicate glass, PCTFE, PTFE
25380 ●	25 mL	Silicone	0.076	Special K-Tip UHMW	Zero Dead Volume	Borosilicate glass, PCTFE UHMW
17602 ●	50 mL	Silicone	0.076	PTFE	Standard - Flat	Borosilicate glass, PCTFE, PTFE
18738 ●	50 mL	Silicone	0.089	PTFE	Standard - Flat	Borosilicate glass, PCTFE, PTFE

- In stock
- ◆ Ships within one week

# COMMERCIAL VEHICLE



EVERY PRODUCT WE ENGINEER AND MANUFACTURE IS DESIGNED TO MEET A SPECIFIC NEED, TO SOLVE A PARTICULAR PROBLEM, TO HELP A TRUCK MANUFACTURER MAKE TRUCKS AND TRAILERS MORE COST-EFFECTIVE, LIGHTER, AND A GREAT DEAL SMARTER. NOW YOU CAN BENEFIT FROM THAT DESIGN AND ENGINEERING EXPERTISE FOR YOUR OWN COMMERCIAL VEHICLE.



# Fast Find Guide

## CAB CONTROLS

Wiper washer controller  
  
*new\** CV-04

Dash valves  
  
*new\** CV-05

Toggle switches  
  
*new\** CV-06

Flipper control valves  
  
*new\** CV-08

Seat valves  
  
*new\** CV-10

Paddle Seat valves  
  
*new\** CV-14


## AIR MANAGEMENT

Pressure protection valves  
  
*new\** CV-16

Power Down, Lift Axle Control Valve  
  
*new\** CV-19

Lift axle control module  
  
*new\** CV-20

Exhaust valves  
  
*new\** CV-22

Rapid dump valve  
  
*new\** CV-23

Solenoid valves  
  
*new\** CV-24

Air Solenoid Accessory Pack (ASAP)  
  
*new\** CV-28

## FUEL SYSTEM

Fuel tank caps  
  
*new\** CV-30

Fuel Tank Vents  
  
*new\** CV-34

Return Flow Splitter  
  
*new\** CV-36

Linegard® Breakaway Valves  
  
*new\** CV-37

## DOT FITTINGS

Fleetfit® DOT Brass Fittings  
  
 CV-38

\*New to this catalog

Designed for installation on vehicle dashboards  
 Controls wiper speed and wash functions  
 Integrated wiper delay function  
 Microprocessor-based device

### Technical features

#### Mounting:

Mounts into a 22mm x 44mm dashboard opening

#### Operating temperature:

-20°F to +160°F (-20°C to +70°C)

#### Materials:

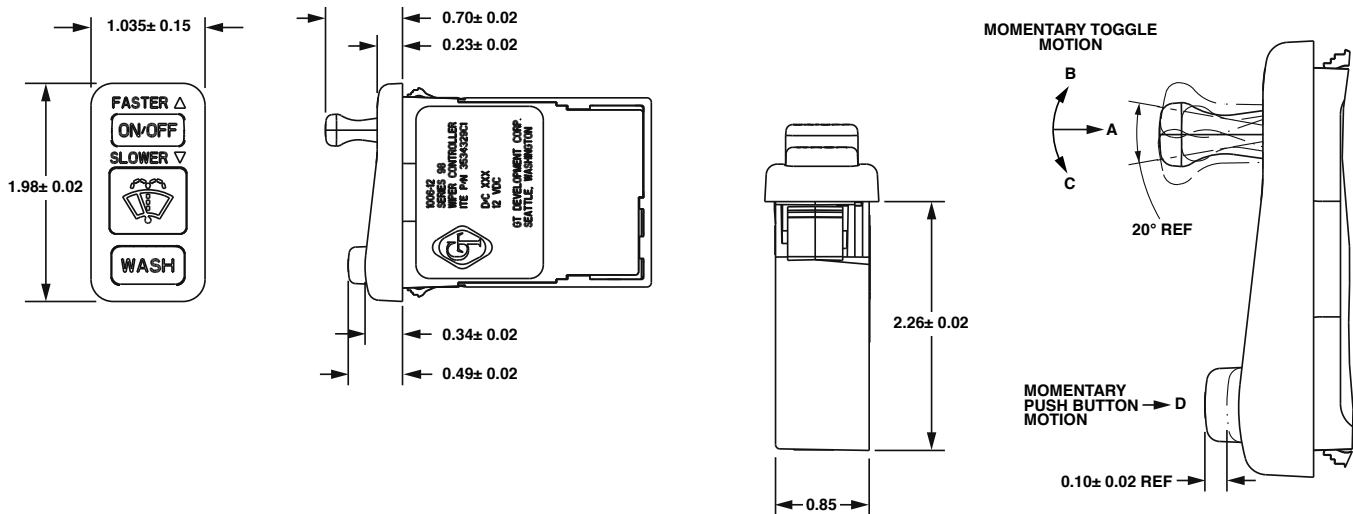
Zytel 72G13 HSIL BK black  
 nylon 6/6 13% glass

#### Electrical connection:

8 Pin, PCB mounted  
 amp connector



### Dimensions (Inches)



### Models

Model		Nominal Voltage
1006-11	●	12V

● In stock

◆ Ships within one week

**3-way air valve**

Designed for dashboard operation of truck air system accessories

Engineered for functionality and durability

Integral Push-to-Connect fittings (PTC)

Material used meets DOT FMVSS

302 flammability requirements



**Technical data**

**Operating pressure:**

0 to 150 psi (0 to 10 bar)

**Operating temperature:**

-20°F to +160°F (-20°C to +70°C)

**Material:**

Nylon, glass filled

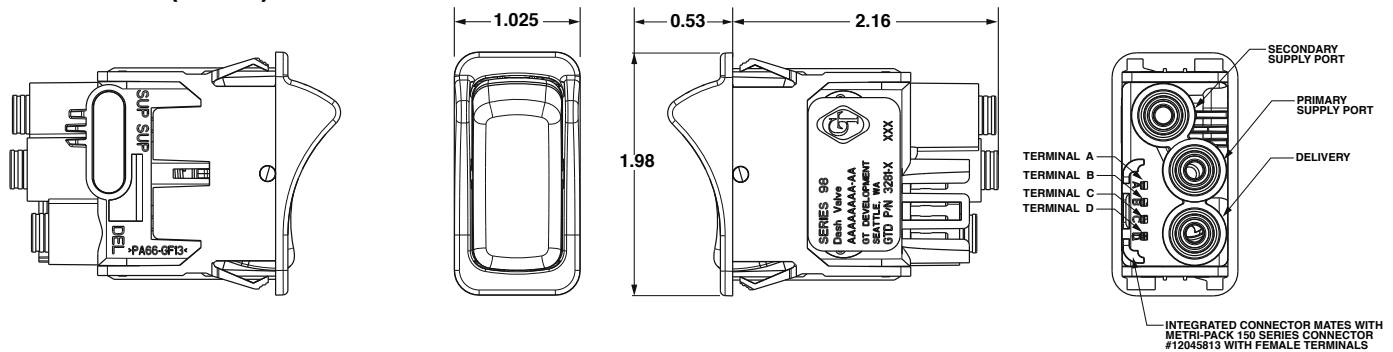
**Tube O/D:**

1/4"

**Status lighting:**

Red LED oval only

**Dimensions (Inches)**



**Models**

Model	Description	Rocker Symbol	Rocker Text
3281-1	Inter-axle differential lock		Inter Axle
3281-2	5th wheel slide		5th Wheel
3281-3	Air suspension dump		SUSP Height

Model	Description	Rocker Symbol	Rocker Text
3281-4	Power take off		P.T.O.
3281-5	Air intake routing		Air Intake
3281-6	Neutral control		Neutral Control

- In stock
- ◆ Ships within one week

**3-way valve combined with  
integral pressure switch**  
**Designed for dashboard operation  
of truck air system accessories**  
**Integral Push-To-Connect fittings (PTC)**

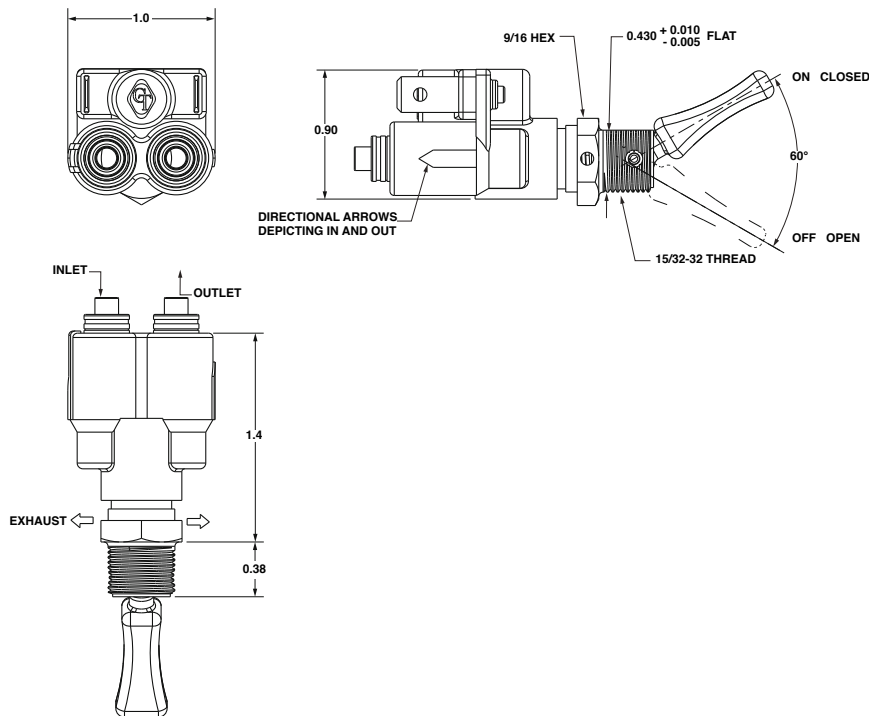
#### Technical data

**Operating pressure:**  
0 to 150 psi (0 to 10 bar)  
**Operating temperature:**  
-20°F to +160°F (-20°C to +70°C)  
**Material:**  
Zytel, Nylon glass filled

**Tube O/D:**  
1/4"  
**Electrical connection:**  
Two 1/4" blade type  
electrical terminals



#### Dimensions (Inches)



#### Models

Model	Tube O/D	Nominal Voltage
3200-1A ●	1/4"	12VDC

- In stock
- ◆ Ships within one week

### 3-way air valve

Designed for dashboard operation  
of truck air system accessories

Heavy-duty switch

Integral Push-To-Connect fittings (PTC)



### Technical data

**Operating pressure:**

0 to 150 psi (0 to 10 bar)

**Operating temperature:**

-20°F to +160°F (-20°C to +70°C)

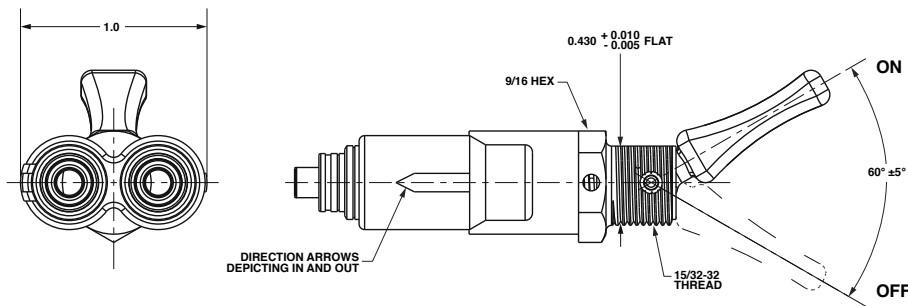
**Material:**

Zytel, Nylon glass filled

**Tube O/D:**

1/4"

### Dimensions (Inches)



### Models

Model	Tube O/D
3202-1A ●	1/4"

- In stock
- ◆ Ships within one week

**3-way air valve combined with  
integral pressure switch**

**Designed for dashboard operation of  
truck air system accessories**

**Engineered for functionality and durability**

**Integral Push-To-Connect fittings (PTC)**



**Technical data**

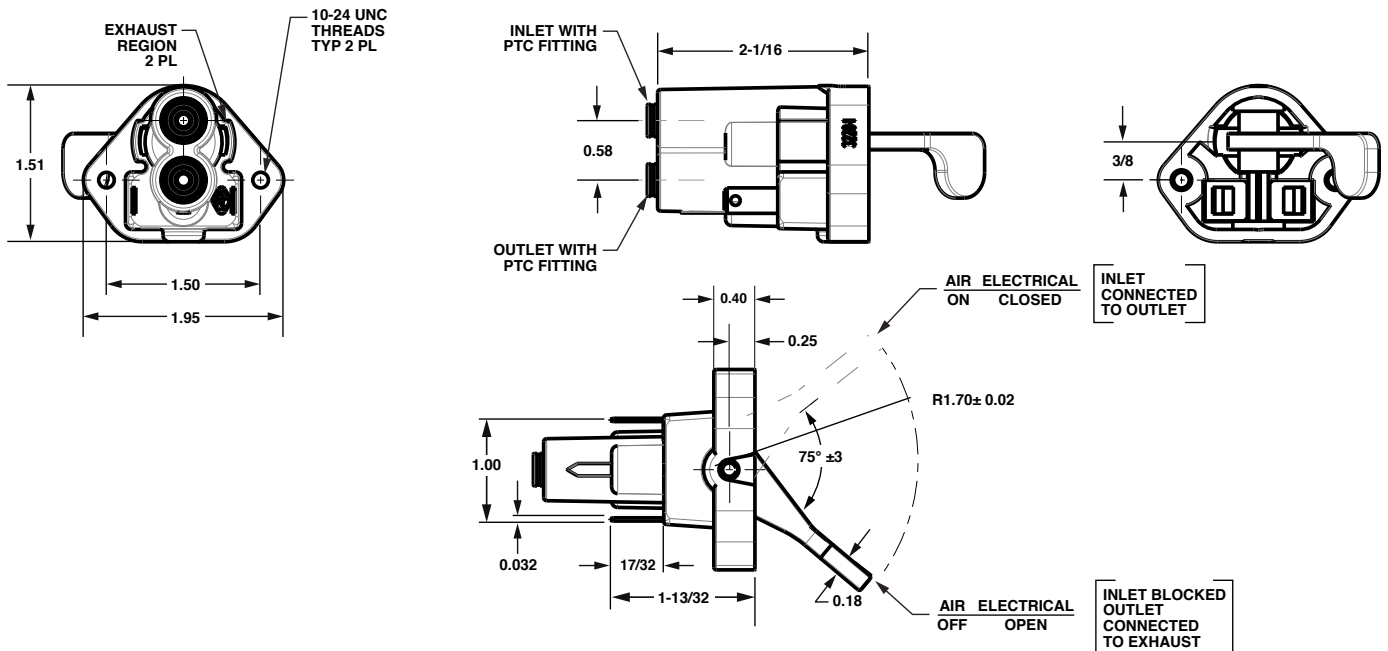
**Operating pressure:**  
0 to 150 psi (0 to 10 bar)

**Operating temperature:**  
-20°F to +160°F (-20°C to +70°C)

**Tube O/D:**  
1/4"

**Electrical connection:**  
Two 1/4" blade type electrical terminals

**Dimensions (Inches)**



**Models**

Model	Tube O/D	Nominal Voltage
3220-1 ●	1/4"	12V

- In stock
- ◆ Ships within one week

**3-way air valve**

Designed for dashboard operation of truck air system accessories

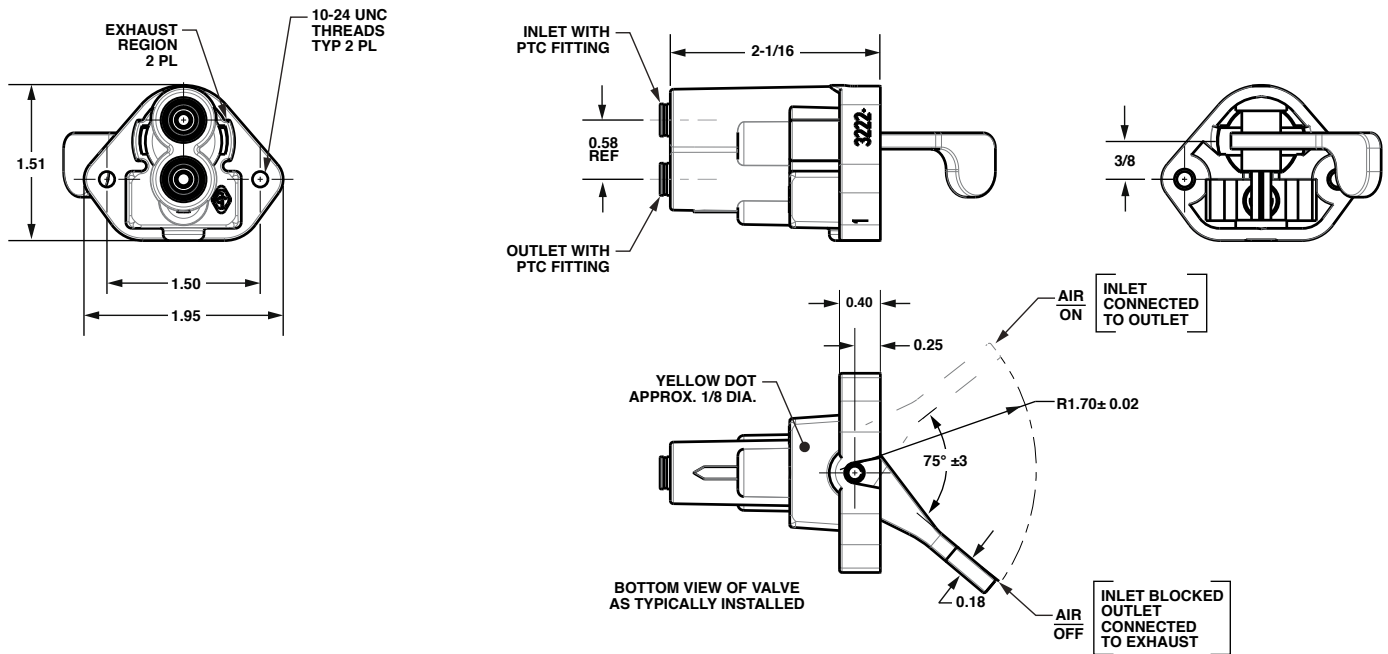
Integral Push-To-Connect fittings (PTC)



**Technical data**

**Operating pressure:**  
0 to 150 psi (0 to 10 bar)  
**Operating temperature:**  
-20°F to +160°F (-20°C to +70°C)  
**Tube O/D:**  
1/4"

**Dimensions (Inches)**



**Models**

Model	Tube O/D
3222-1 ●	1/4"

- In stock
- ◆ Ships within one week

**Controls seat height and lumbar support functions**
**Removable knob**
**Designed to operate air seat systems**
**Technical data**
**Operating pressure:**

0 to 200 psi (0 to 13 bar)

**Actuation:**

Push: Applies inlet pressure to outlet port

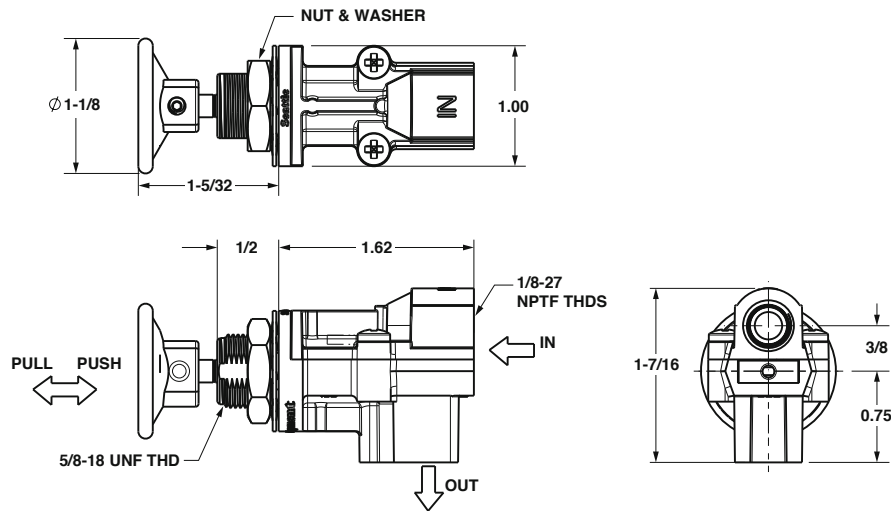
Pull: Vents outlet port

**Leakage:**

Valve cannot leak to outlet port in OFF position

**Porting:**

Outlet port configuration options: 1/8"-27 NPTF female thread


**Dimensions (Inches)**

**Models**

Model	Port size
134-4 ●	1/8 -27 NPTF

● In stock

◆ Ships within one week



**Permanent knob**  
**Push-To-Connect fittings (PTC)**  
**Designed to operate air seat systems**

**Technical data**

**Operating pressure:**  
0 to 200 psi (0 to 13 bar)

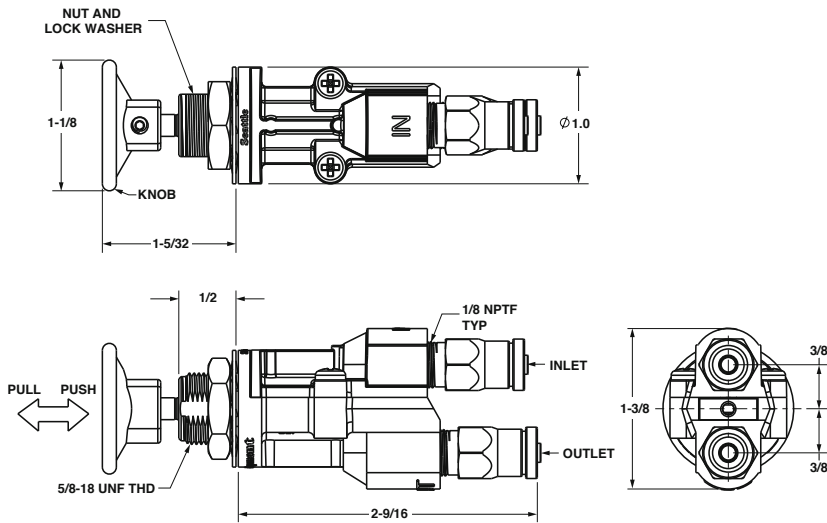
**Actuation:**  
Push: Applies inlet pressure to outlet port  
Pull: Vents outlet port

**Leakage:**  
Valve cannot leak to outlet port in OFF position

**Tube O/D:**  
1/4"



**Dimensions (Inches)**



**Models**

Model	Tube O/D
251-12B ●	1/4"

\* Kit includes seal and gasket

- In stock
- ◆ Ships within one week

**Permanent knob**  
**Threaded ports**  
**Designed to operate air seat systems**

#### Technical data

**Operating pressure:**  
0 to 200 psi (0 to 13 bar)

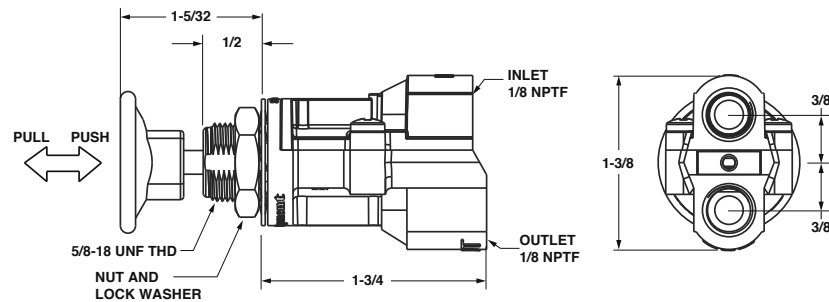
**Actuation:**  
Push: Applies inlet pressure to outlet port  
Pull: Vents outlet port

**Leakage:**  
Valve cannot leak to outlet port in OFF position

**Porting:**  
Outlet port configuration options: 1/8"-27 NPTF female thread



#### Dimensions (Inches)



#### Models

Model	Port Size
251-21A ●	1/8-27 NPTF

- In stock
- ◆ Ships within one week

Integrated electrical switch for pneumatic and electric control of air seats

Permanent knob

Push-To-Connect fittings (PTC)

**Technical data**

**Operating pressure:**  
0 to 200 psi (0 to 13 bar)

**Actuation:**  
Push: Closes electrical switch. Approved for use with RDH Enterprises # 64-00450 12 VDC compressor or equivalent

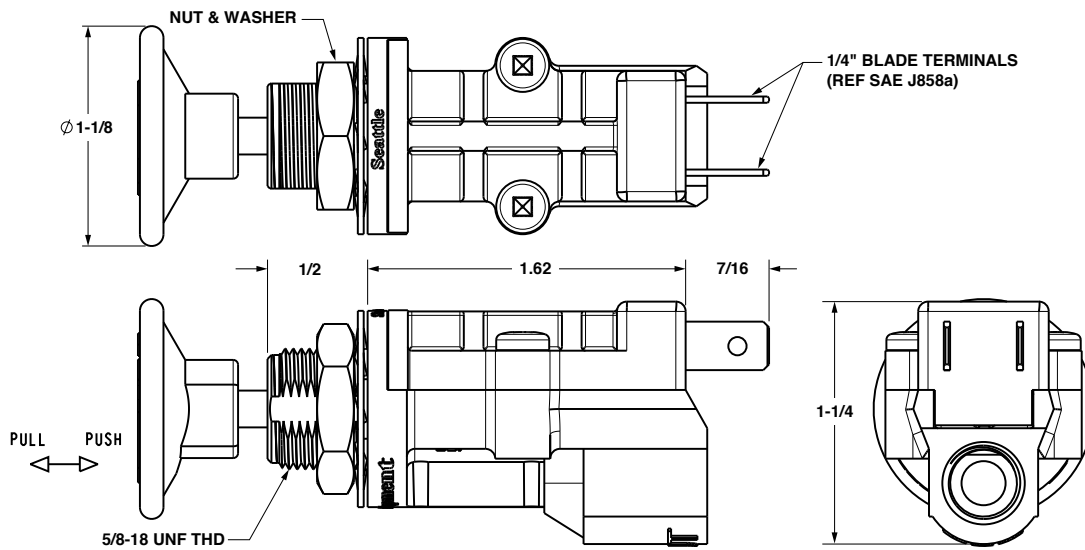
Pull: OUT port is vented to atmosphere

**Tube O/D:**  
1/4"



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**Dimensions (Inches)**



**Models**

Model	Tube O/D
3000 ●	1/4"

- In stock
- ◆ Ships within one week

**Designed for the control of one seat bag**

**Paddle style actuation**

**3-way valve**

**All plastic components meet FMVSS 302  
flammability requirements**

**1/4" barb connection**



### Technical data

**Operating pressure:**

0 to 125 psi (0 to 8 bar)

**Actuation:**

3-way, dead center, paddle style actuation

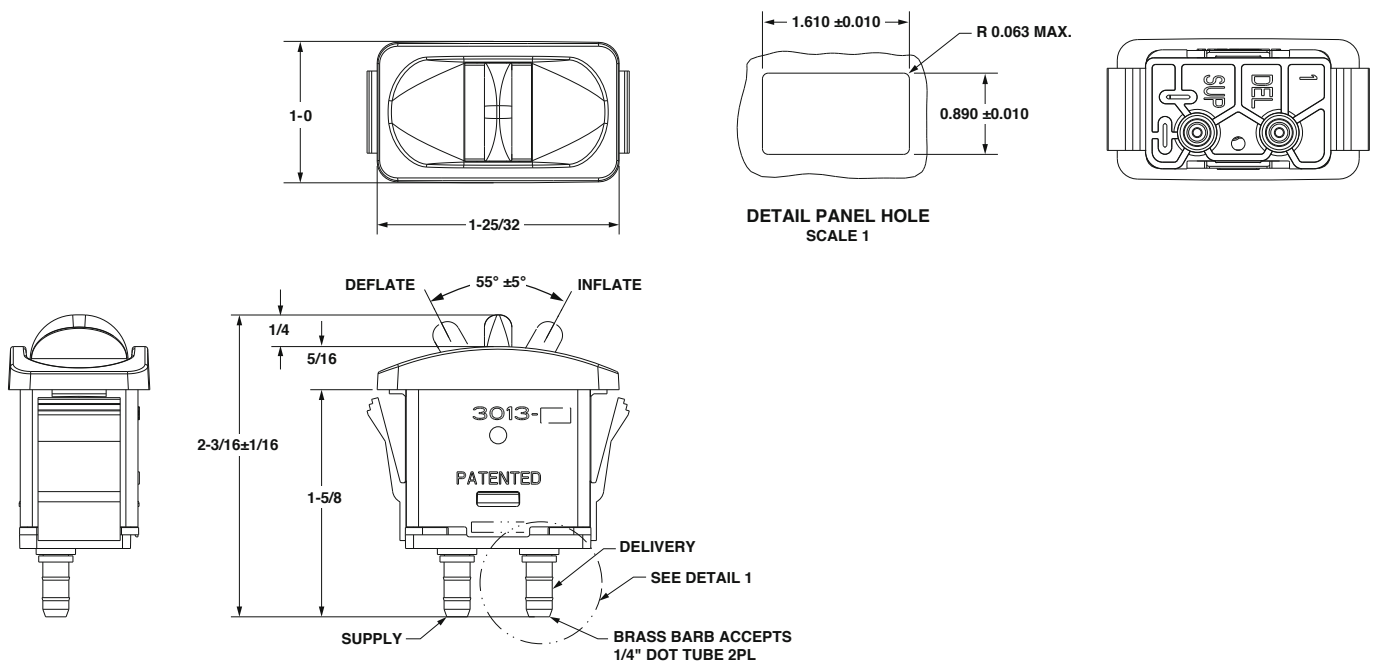
**Material:**

Black Thermoplastic

**Assembly:**

Valve assembly snaps into seat side panel from the outside

### Dimensions (Inches)



### Models

Model	Barb Connection
3013-4 ●	1/4"

● In stock

◆ Ships within one week

Integrated electrical switch for pneumatic and electric control of air seats

Paddle style actuation

All plastic components meet FMVSS 302 flammability requirements

1/4" barb connection

**Technical data**

**Operating pressure:**

0 to 125 psi (0 to 8 bar)

**Actuation:**

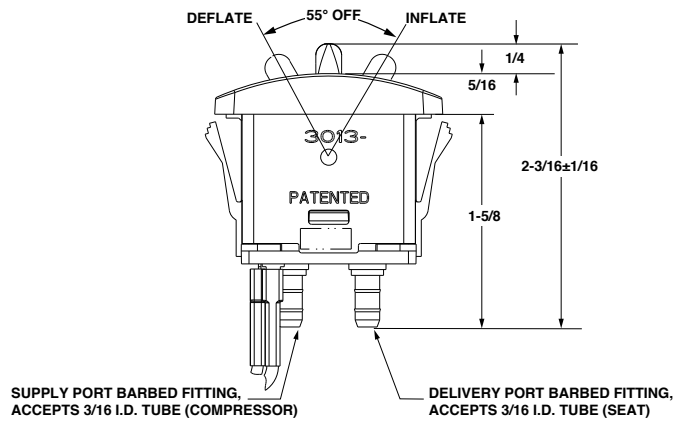
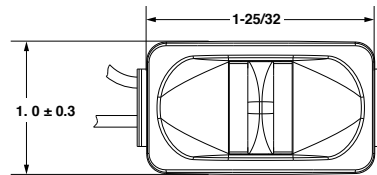
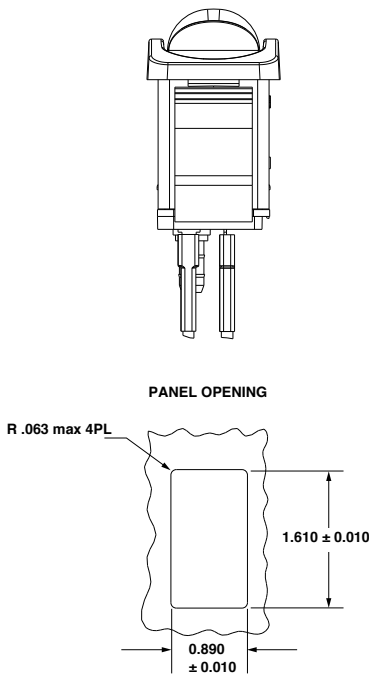
Paddle style

**Electrical connection:**

Wire assembly, terminal 1/4" blades

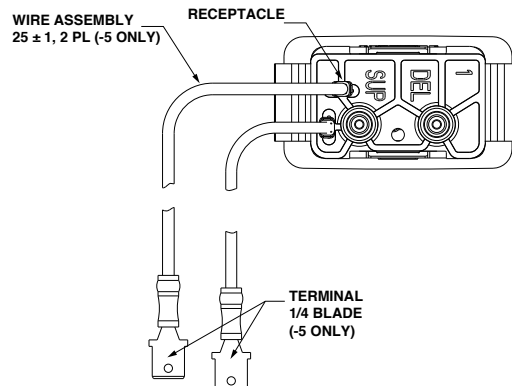


**Dimensions (Inches)**



**Models**

Model	Barb Connection
3013-5 ●	1/4"



- In stock
- ◆ Ships within one week

Designed to isolate vehicle air systems in case of leakage  
 Protects the integrity of the air supply  
 Convenient in tank mounting  
 Variety of closing pressure options to suit application

### Technical data

#### Operating pressure:

0 to 150 psi  
 0 to 10 bar

#### Material:

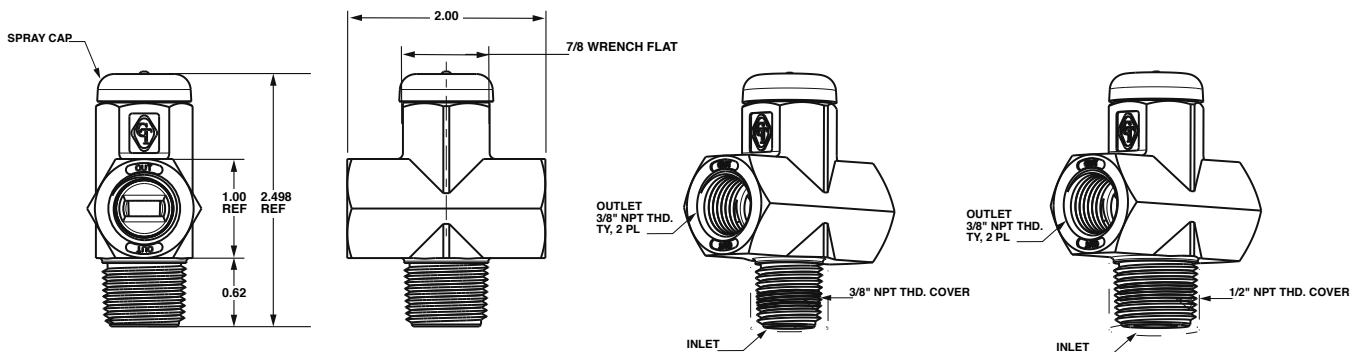
Zamak 3

#### Operating temperature:

-40°F to +200°F max.  
 -40°C to +93°C max.



### Dimensions (Inches)



### Models

Model	Open Pressure (psi)	Close Pressure (psi)	Thread
223-355V ●	55	45	3/8" NPT
223-365 ●	65	55	3/8" NPT
223-385V ●	85	67	3/8" NPT
223-455V ●	55	45	1/2" PTF
223-485V ●	85	67	1/2" PTF
223-565 ●	65	55	1/2" PTF
223-585-2 ●	100	70	1/2" PTF

\*Kit includes: Diaphragm assembly, valve assembly, valve spring, louvre O-ring, bowl O-ring, drain seal

- In stock
- ◆ Ships within one week

Designed to isolate vehicle air systems in case of leakage

Protects the integrity of the air supply

Inline mounting

Integral Push-To-Connect (PTC) fittings



**Technical data**

**Operating pressure:**

0 to 150 psi

0 to 10 bar

**Material:**

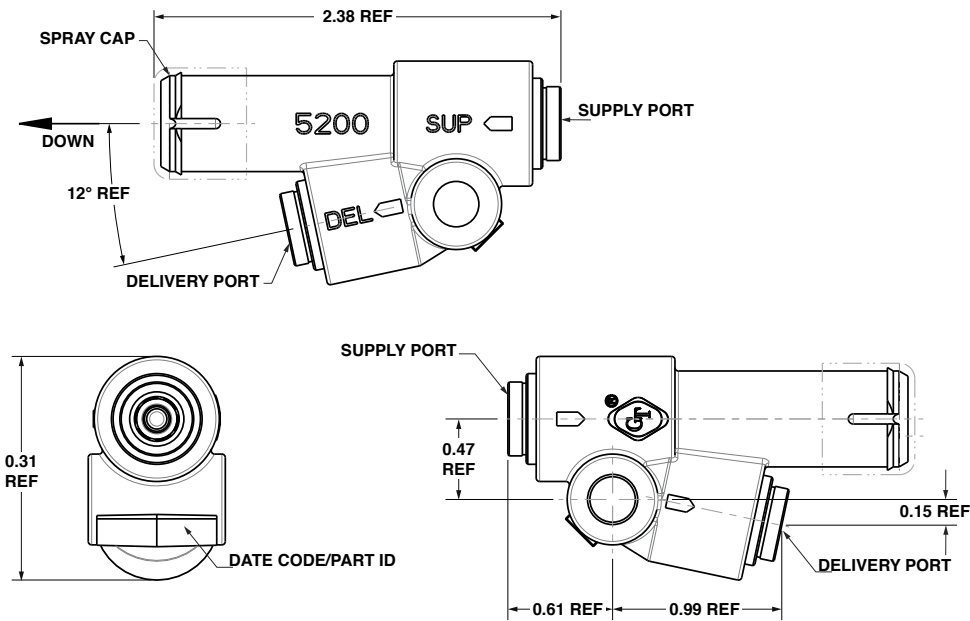
Thermosplastic body with Fluorosilicone seals

**Operating temperature:**

-40°F to +200°F max.

-40°C to +93°C max.

**Dimensions (Inches)**



**Models**

Model	Open Pressure (psi)	Close Pressure (psi)	PTC Connection
5200-75 ●	75	60	1/4" OD tube

- In stock
- ◆ Ships within one week

Widely used by leading truck manufacturers around the world today, Norgren check valves are designed for strength and durability

Single and double check valves are available, with multiple port sizes

Incorporating standard Norgren check valve components and proven technology



### Technical data

**Medium:**

Compressed air

**Operating pressure:**

0 to 250\*PSI (0 to 17 bar)

**Operating temperature:**

-40° to 212°F (-40° to 100°C)

\*Depending on tubing limitations.



### Single Check Valves

Models	Port 1	Port 2	Port 3
95403701M ◆	1/2" PIF	1/2" NPTF	-



### Double Check Valves

Models	Port 1	Port 2	Port 3
A104000404074 ◆	3/8" PIF	3/8" PIF	3/8" PIF
A106000606074 ◆	10mm PIF	10mm PIF	10mm PIF
A106000648473 ◆	3/8" PIF	3/8" PIF	1/2" NPTF

● In stock

◆ Ships within one week



**5 port 2 position, solenoid operated spring return, power down lift axle valve**  
**Built in suspension bag regulation**  
**Integral Push-to-Connect (PTC) DOT fittings for quicker installation times**  
**Energize the solenoid to lower the axle**  
**Long lasting spool design**  
**High flow compact valves**



**Technical data**

**Medium:**

Filtered and lubricated or non-lubricated compressed air or vacuum

**Operation:**

5/2 solenoid operated spring return, power down

**Solenoid:**

12 VDC, ± 25% of voltage tolerance  
9-15 VDC nominal range

**Connector:**

Packard electrical connector

**Port size:**

Port 1: common exhaust;  
1/2" PTC DOT  
Port 2: Lift bag, non-regulated;  
1/2" PTC DOT  
Port 4: Suspension bag,  
regulated; 3/8" PTC DOT

**Operating pressure:**

Minimum 35 psi  
Maximum 150 psi

**Temperature range:**

-20°F to 120°F\*  
\*Consult technical services for temperatures below 35°F

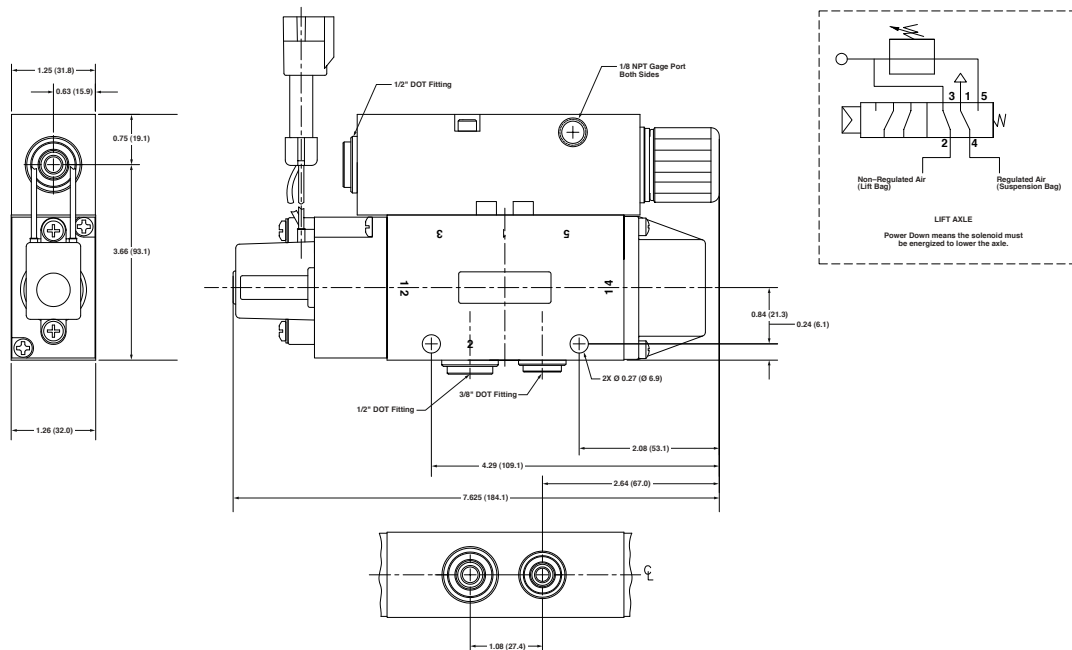
**Materials:**

Body: Aluminum  
Spool: Anodized aluminum  
Fittings: Brass  
Elastomers: Nitrile and special nitrile based low-friction elastomers  
Regulator knob: Acetal

**Typical applications:**

Commercial vehicles, truck and trailer manufacturers, body builders.  
Lift axle control

**Dimensions (Inches)**



**Power Down, Lift Axle Control Valve**

Model	Voltage Tolerance	DC Power	Protection Class	Electrical Duty	Coil
K990037 ●	± 25% automotive specification	3.4 & 4.7 w automotive specification	IP65 (DIN 40 050) with cable clamp	100 % (Continuously rated)	Fully encapsulated

- In stock
- ◆ Ships within one week

**Designed for the heavy duty truck and trailer industry**

**Includes two industry-proven brake-style relay valves integrated into a single unit for compactness and ease of installation**

**Excellent flow capability for rapid axle actuation**

**Optional control solenoid for electric control**

### Technical data

**Operating pressure:**

30 to 120 psi

**Operating temperature:**

-40°F to +190°F max.

-40°C to +87.7°C max.

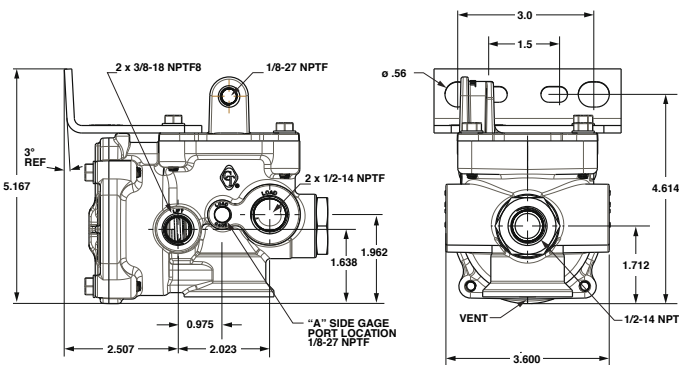
**Material:**

Cast aluminum body with thermoplastic pistons and low temperature nitrile seals

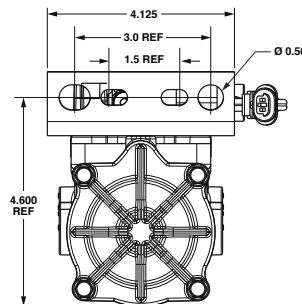
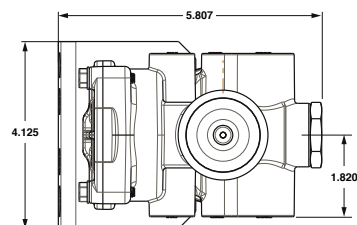
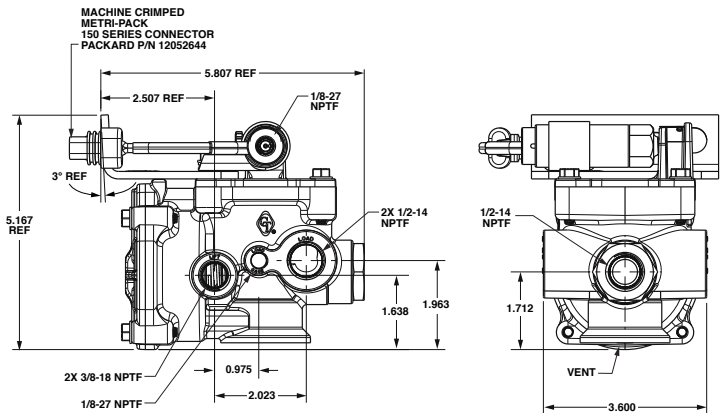


### Dimensions (Inches)

5040-111-01C

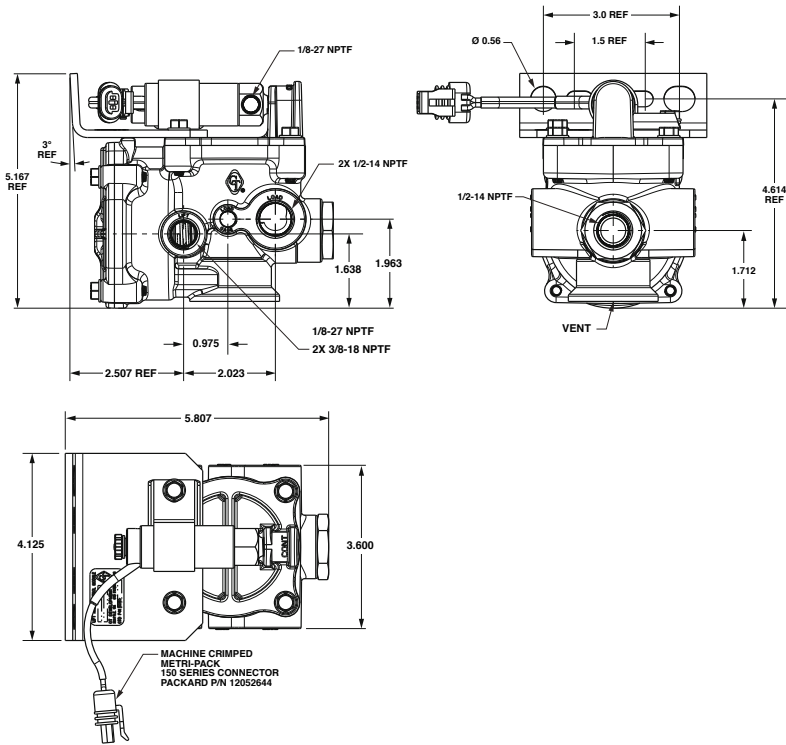


5040-211-01C



- In stock
- ◆ Ships within one week

5040-311-01C



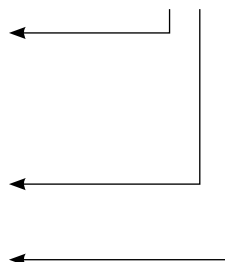
**Models**

Model	Valve Type	Electrical Connection
5040-111-01C	● Air Actuation	N/A
5040-211-01C	● N/O Solenoid	Metri-Pack 150 Series 2-way connector
5040-311-01C	● N/C Solenoid	Metri-Pack 150 Series 2-way connector

**Part Number**

5040-\* 1 1-01C

Valve Type	Substitute
Air Actuation	1
N/O Solenoid	2
N/C Solenoid	3
<b>Check Valve</b>	<b>Substitute</b>
Check Valve	1
<b>Gage Port</b>	<b>Substitute</b>
'A' side gage port	1



- In stock
- ◆ Ships within one week

Helps vehicle OEMs to comply with brake timing regulations

Enhances vehicle performance\*

Durable zinc alloy provides excellent flow characteristics

\*Requires properly plumbed air system

### Technical data

#### Operating pressure:

10 psi min

0.7 bar

#### Port size:

1/2" NPT

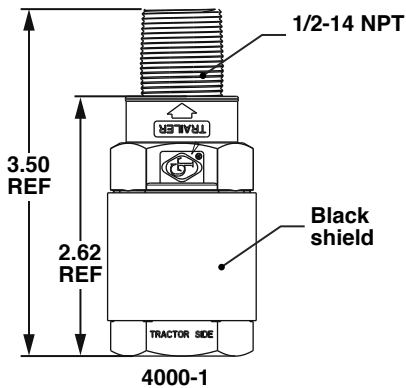
#### Nipple size:

1/2" PTF male

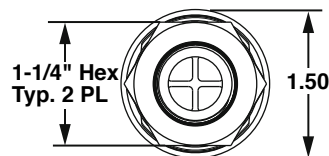
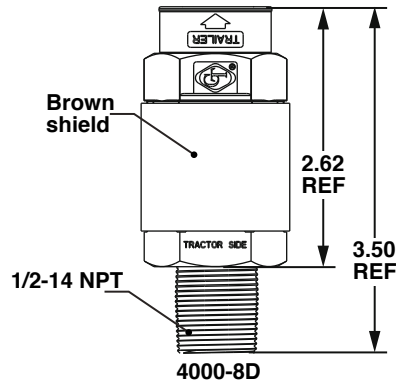


### Dimensions (Inches)

4000-1



4000-8D



### Models

Model	Shield Color	Nipple Side: 1/2" PTF	Port Side: 1/2" NPT
4000-1	● Black	Trailer	Tractor
4000-8D	● Brown	Tractor	Trailer

● In stock

◆ Ships within one week

**3-way, pilot-operated, normally open valve**  
**2 delivery ports**  
**Chassis-mounted on heavy-duty highway vehicles with air-ride suspensions**

**Technical data**

**Rated PSI:**

90 to 120 psi  
 6.4 to 8.5 bar

**Port size:**

1/8"-27

**Thread Type:**

PTF

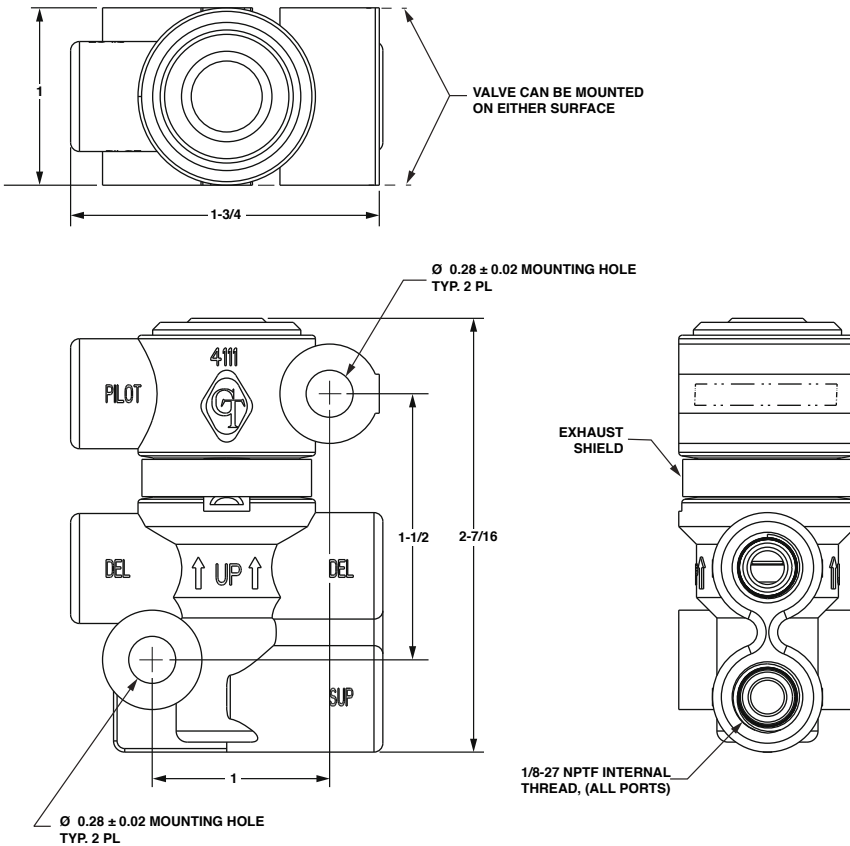
**Material:**

Die cast Zinc



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**Dimensions (Inches)**



**Models**

Model	Port Size
4111-2 ●	1/8" PTF

- In stock
- ◆ Ships within one week

**Robust component parts for use on and around the engine**

**Designed for continuous duty in high temperature applications**

**Integral Push-To-Connect (PTC) fittings**

### Technical data

**Operating pressure:**

60 to 150 psi (5 to 10 bar)

**Operating temperature:**

-40°F- 257°F (-40°C- 125°C)

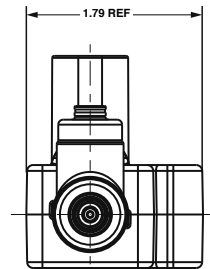
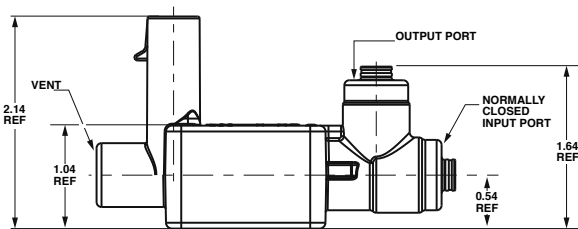
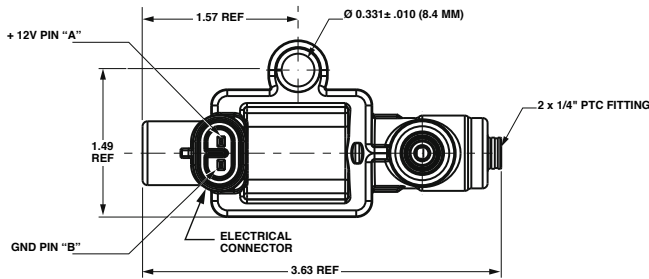
-40°F to 200°F (5030-310B)

**Operating voltage:**

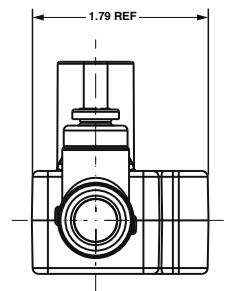
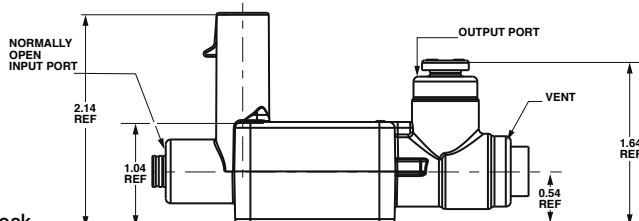
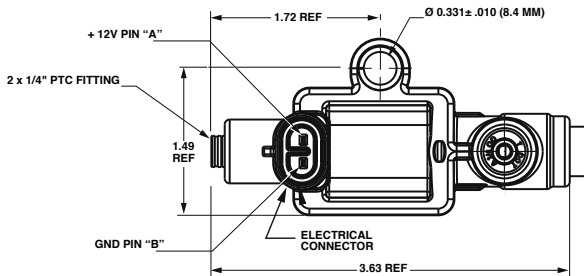
9 to 16 volts

### Dimensions (Inches)

5030-111



5030-211



5030-211

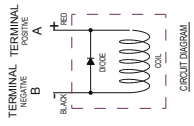
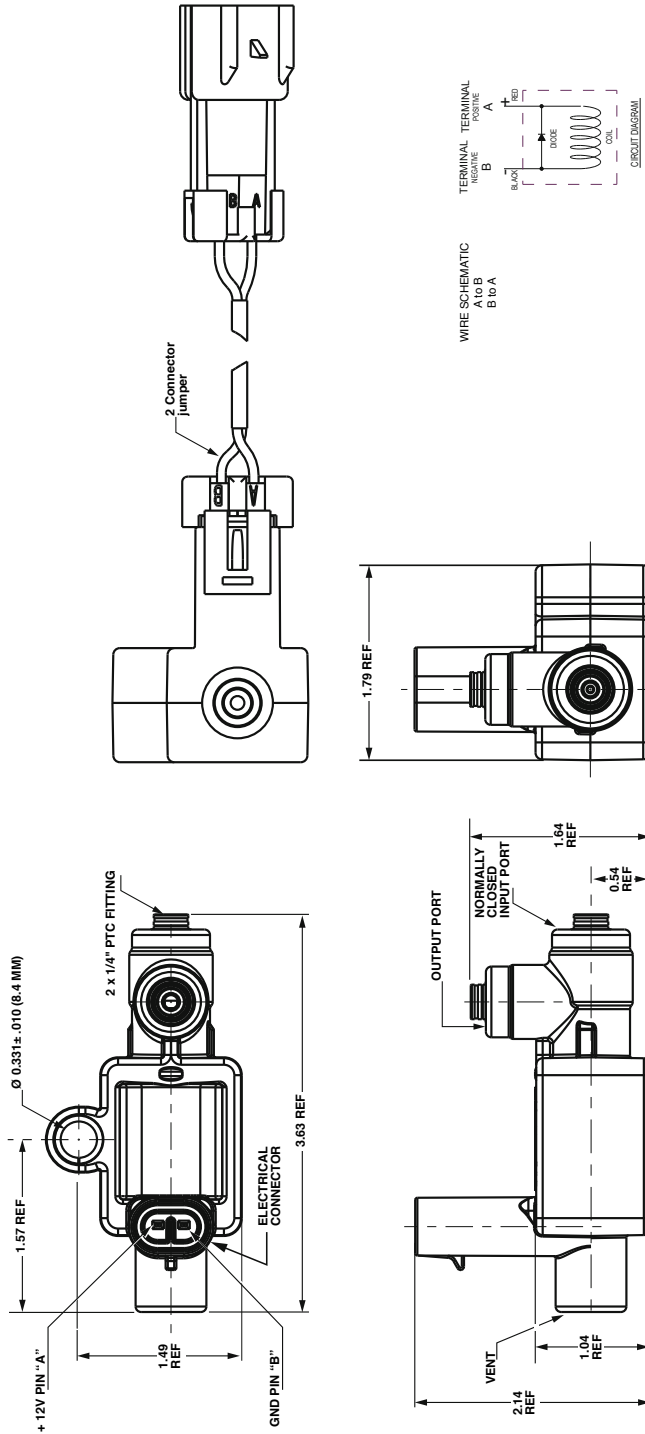


5030-310B

- In stock
- ◆ Ships within one week

Dimensions (Inches)

5030-310B



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Models

Model	Description	O/D Tube
5030-111	● Three-way NC	1/4"
5030-211	● Three-way NO	1/4"
5030-310B	● Two-way NC	1/4"

- In stock
- ◆ Ships within one week

**Solenoid air valve**
**Designed for continuous duty in high temperature applications**
**Technical data**
**Rated pressure:**

145 psi

**Thread type:**

1/8" NPTF

**Operating voltage:**

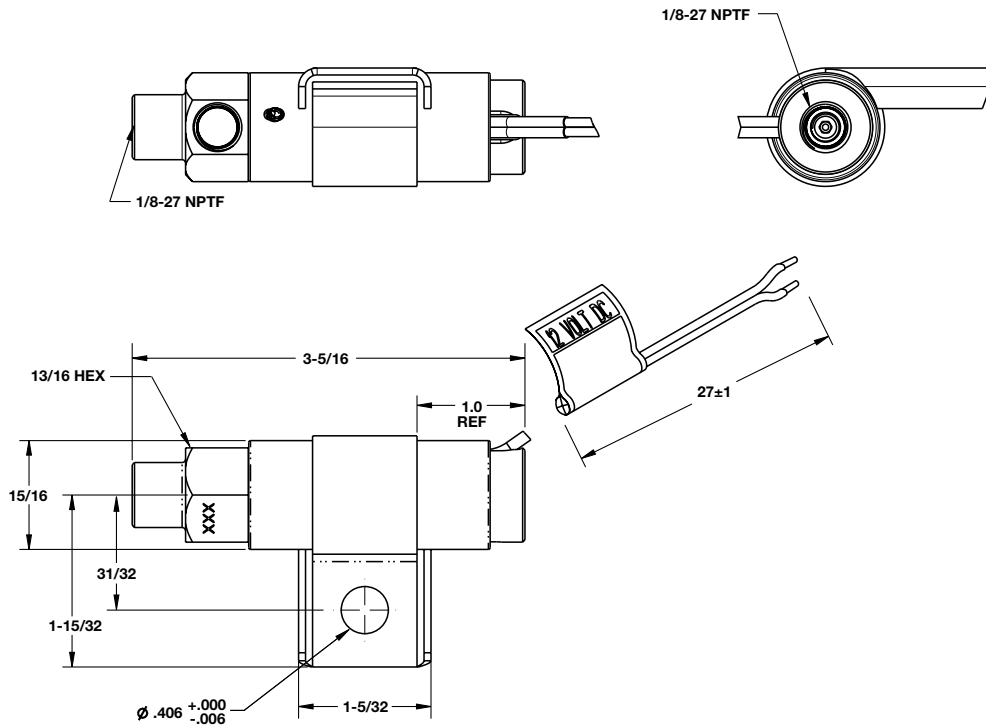
12 VDC

**Electrical connector:**

Flying lead

**Material:**

Steel body, Brass manifold, FPM seals


**Dimensions (Inches)**

**Models**

Model	Port Size	Voltage
85020-0 ●	1/8"-27	12 VDC

**Accessories**
**Commercial Vehicle In-Line Filter**


5050 ●

**Commercial Vehicle Exhaust Vent Shield**


5060-1 ●

- In stock
- ◆ Ships within one week



Solenoid valve can be connected as a normally open or normally closed valve

**Technical data**

**Thread type:**

1/8" NPTF

**Operating voltage:**

12 VDC with diode

**Electrical connection:**

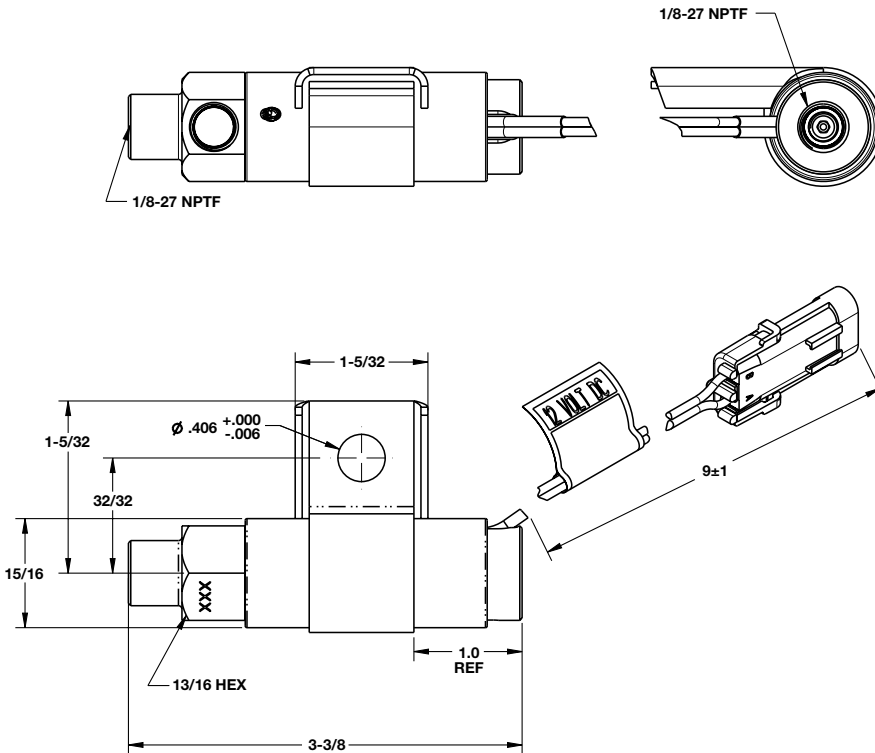
Flying lead with weather pack seal

**Material:**

Steel body, Brass manifold, FPM seals



**Dimensions (Inches)**



**Models**

Model	Port Size	Voltage
5025-1 ●	1/8"-27	12 VDC

**Accessories**

Commercial Vehicle In-Line Filter	Commercial Vehicle Exhaust Vent Shield
<p>5050 ●</p>	<p>5060-1 ●</p>

- In stock
- ◆ Ships within one week

- Robust modular 3-way valve manifolding system**
- Patented design provides flexibility to exceed your application needs**
- Customizable electrical connection to meet your specific requirements**
- Integrated fittings provide faster build times**
- Quicker installation with color-coded fittings caps**
- Simple to connect design for building the manifold length you require**
- Mountable in any orientation**
- Fittings comply with US Department of Transportation, Federal Motor Vehicle Safety Standard (DOT FMVSS 106)**
- Integrated Push-To-Connect (PTC)**



Product shown with customer supplied connector.

### Technical data

#### Medium:

Compressed air, filtered, lubricated, non-lubricated

#### Operation:

3/2 normally closed direct acting

#### Solenoid:

9–16 VDC or 20.4–26.4 VDC

7 Watts

#### Port Size:

3/8" Inlet – tube/push in fitting (PIF)

1/4" Outlet/Delivery – tube/push in fitting (PIF)

#### Operation pressure:

Maximum 150 psig (10.35 bar)

#### Flow characteristics:

3/8" Inlet Cv = 0.67

1/4" Delivery Cv = 0.14

Minimum orifice size: 0.078"

#### Temperature range:

–40° to 220°F (–40° to 100°C)

#### Materials

Body and endcaps: 30% glass filled PBT

Exhaust cover cap: 30% glass filled Nylon 6/6

Coil overmold: 15% glass filled PET

Seals: Silicone, Nitrile, Viton, and HNBR

Springs, armature, and pole piece: Stainless Steel

Bobbin: 30% glass filled PPS

Valve and fittings: Brass

Mounting sleeve: Steel

Tubing: Tubing should be to SAE J844

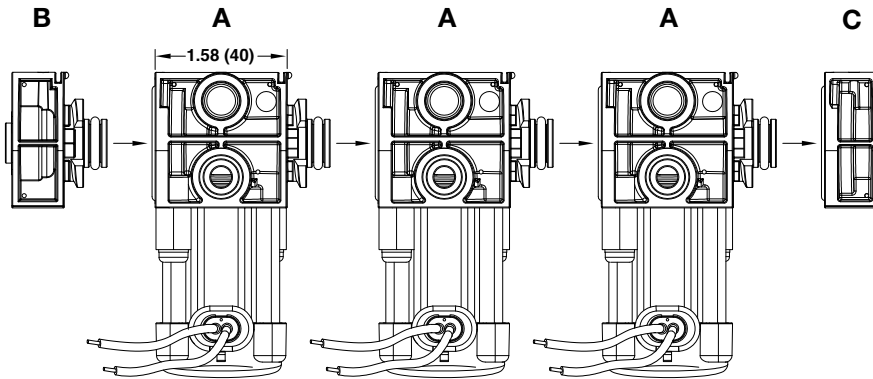
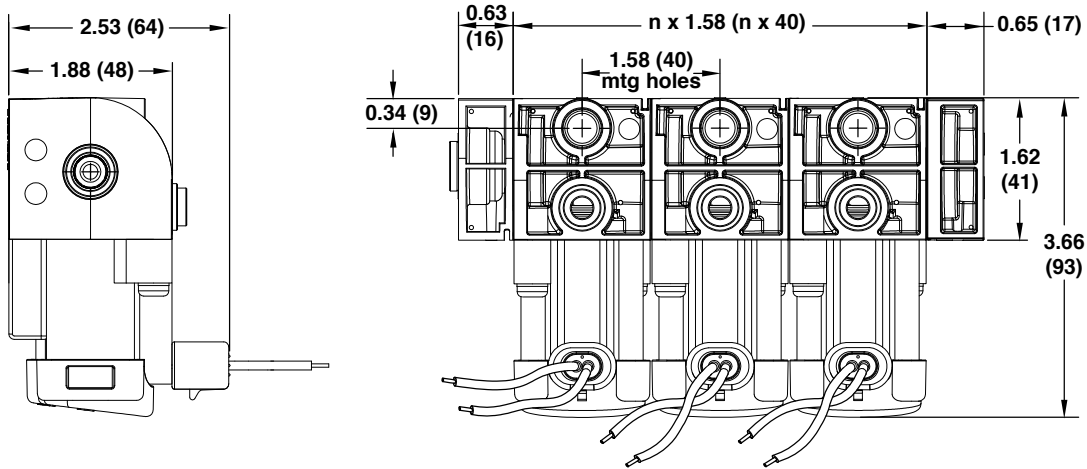
#### Standards and Legislation

Fittings comply with U.S. Department of Transportation, Federal Motor Vehicle Safety Standard (DOT FMVSS 106) (Mandatory requirements for inch tube fittings in U.S.A.), Society of Automotive Engineers SAE J1409, SAE J1410, SAE J1455 and SAE J2494-2.

● In stock

◆ Ships within one week

**Dimensions (Inches)**



**Standard Models**

Model	Function	Electrical Connection	Port Size	Voltage	Position
7201-70	◆ 3/2 NC	19" Flying leads	(1/4" PIF)	12 VDC	A
7201-72	● 3/2 NC	19" Flying leads	(1/4" PIF)	24 VDC	A

**End Plates**

Model	Description	Position
7202-70	◆ Inlet Left Hand End Plate (3/8" PIF)	B
7203-70	◆ Cap Right Hand End Plate	C

Configurable up to 8 stations,(B+A+A+A+A+A+A+A+C).  
Please consult factory for configurations using more than 8 stations.

**1/4" Colored caps**

Red	Yellow	Orange	Green	Black	Tan	Violet	Blue	White	Silver
48C34901 ●	48C34902 ◆	48C34903 ●	48C34904 ◆	48C34905 ◆	48C34906 ●	48C34907 ●	48C34908 ●	48C34909 ◆	48C34910 ◆

- In stock
- ◆ Ships within one week

**Norgren fuel caps incorporate a unique combination of thermal, pressure relief, and breather type caps**

**Protect the fuel system in the event of fire or a roll over**

**Minimizes the opportunity for pressure to build up in the tank**

**All designs meet or exceed FHWA guidelines for leakage, drop tests and flame tests**

### Technical data

**Material:**

Aluminum die-casting







**Options:**

Matching locking, venting, safety features\*

\* Please contact your local Norgren technical representatives.






### Models

Models	Description	Cap Size/ Thread Size	Thermal Relief	Pressure Relief	Venting	Locking	Chrome	Chain Length
 31302-1	● 2" Closure only cap	2"-11.5 NPSM	No	No	No	No	No	10"
 8103	● 2" Full function cap, chrome	2"-11.5 NPSM	Yes	Yes	Yes	No	Yes	12"
 8105-2	● 2.5" Fuel cap for diesel fuel	2.5"-8 UN	Yes	Yes	Yes	No	No	12"
 8110-1	● 3" Float style cap	3"-8 NPLS	Yes	Yes	Yes	No	No	12"
 8111-1	● 3" Float style cap	3"-8 NPLS	Yes	Yes	Yes	Yes	No	12"
 8120	● 3" Float style cap	3"-5.5 custom thread	Yes	Yes	Yes	No	No	12"

● In stock

◆ Ships within one week

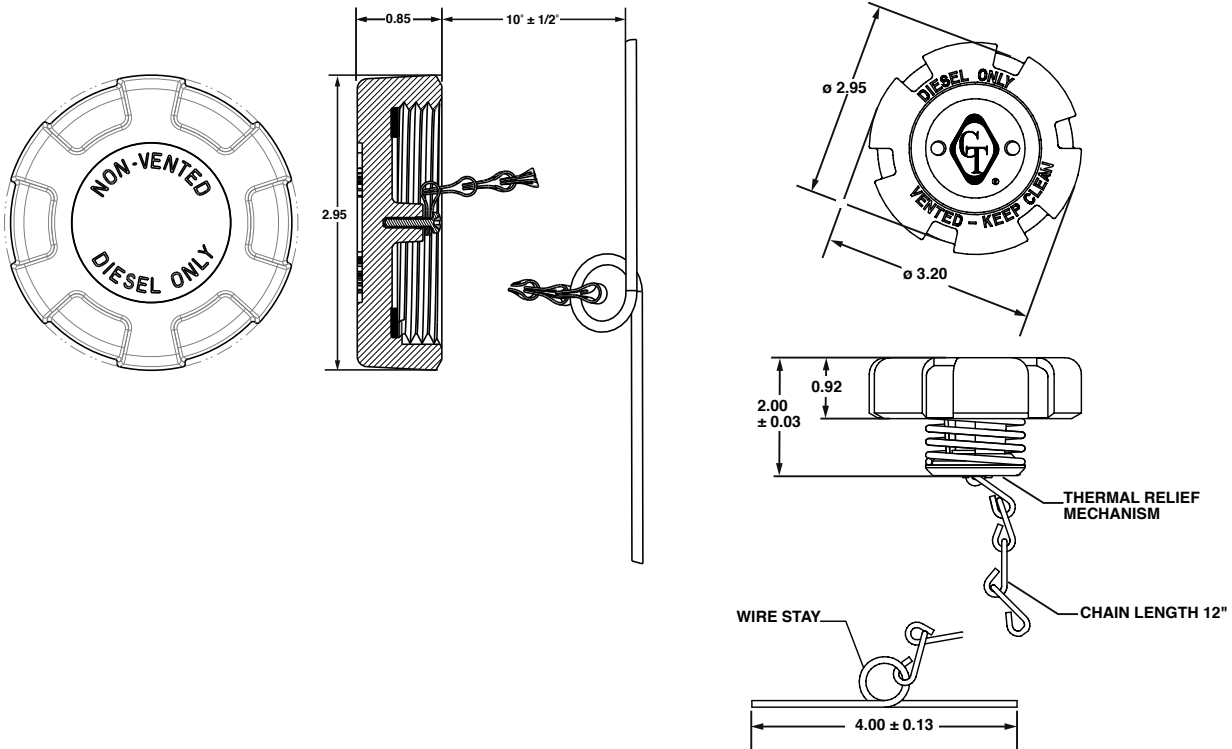
Models

Models	Description	Cap Size/ Thread Size	Thermal Relief	Pressure Relief	Venting	Locking	Chrome	Chain Length
 8121	● 3" Float style cap	3"-5.5 custom thread	Yes	Yes	Yes	Yes	No	12"
 8130-1	● 4" Fuel cap for diesel fuel	4"-8 NPSM	Yes	Yes	Yes	No	No	12"
 8131-1	● 4" Fuel cap for diesel fuel	4"-8 NPSM	Yes	Yes	Yes	Yes	No	12"

Dimensions (Inches)

31302

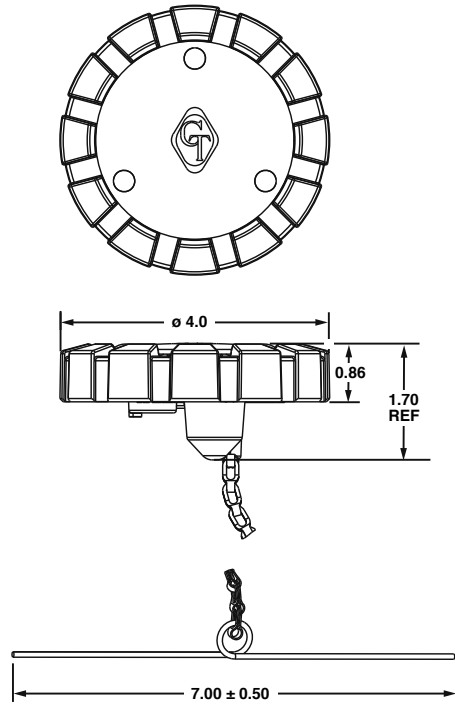
8103 and 8105



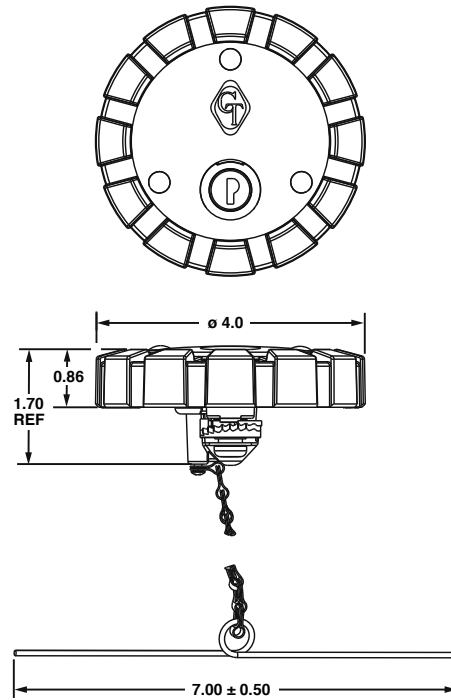
- In stock
- ◆ Ships within one week

**Dimensions (Inches)**

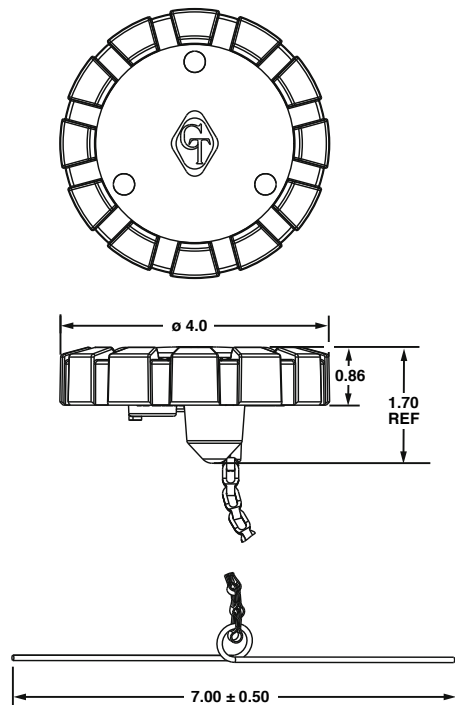
8110-1



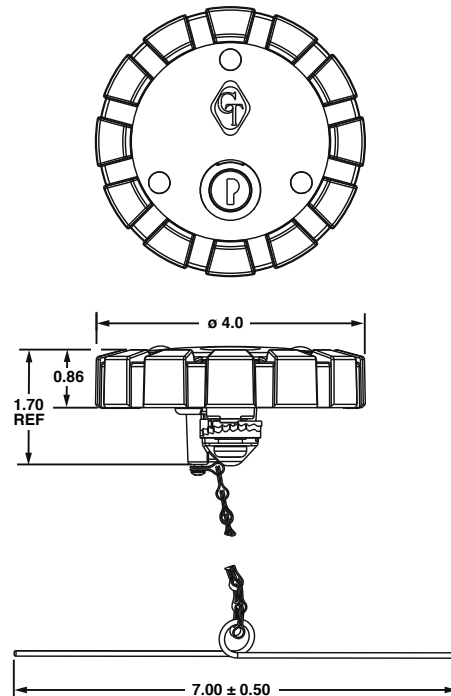
8111-1



8120



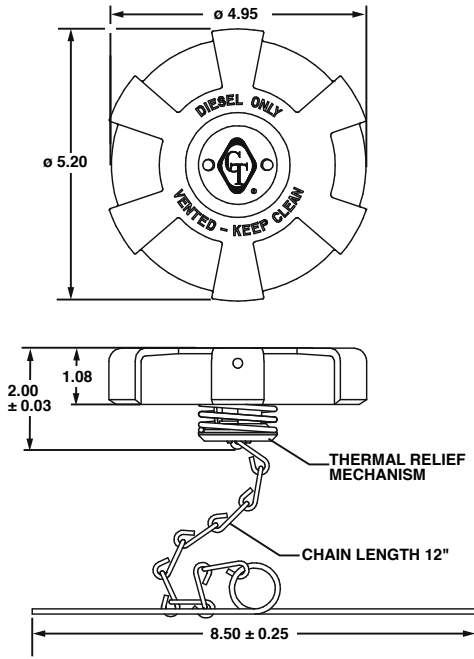
8121



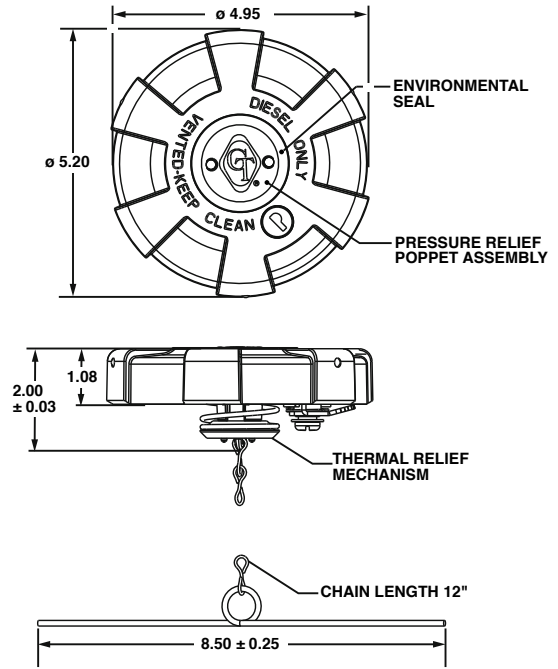
- In stock
- ◆ Ships within one week

Dimensions (Inches)

8130



8131



- In stock
- ◆ Ships within one week

**1/2" NPT male thread with 1/4" barb fitting**  
**Anti-spill protection**  
**Available with pressure relief and safety venting**  
**Provides tank breathing**

### Technical data

**Pipe thread:**

1/2-14 PTF

**Overflow hose diameter:**

5/16" ID

**Outward flow rate:**

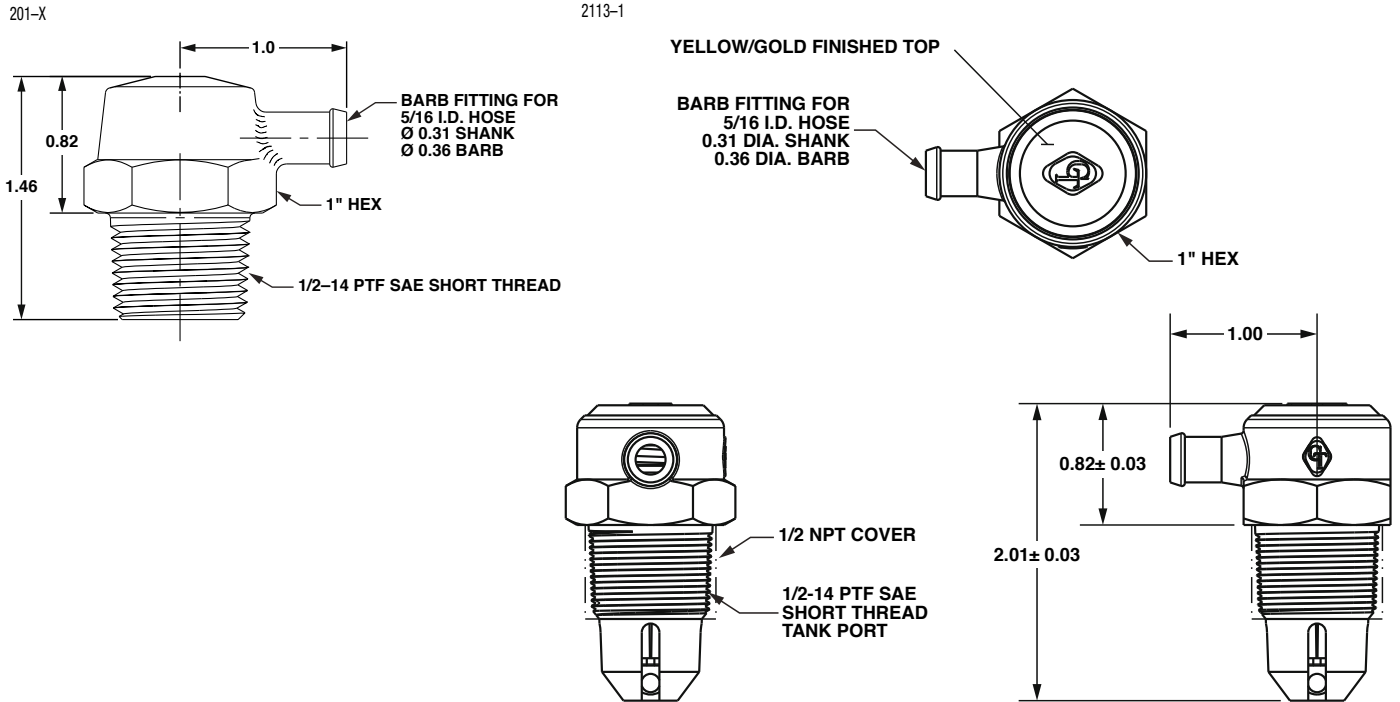
30 SCFH @ 6" water pressure

**Hex size:**

1.0"



### Dimensions (Inches)



### 1/2" NPT fuel tank vent

Models		Thermal Relief	Pressure Relief	Diesel/Gas
201-1	●	No	No	Diesel/Gas
201-3	●	No	No	Diesel
2113-1	●	255 ± 25°F	5-10 PSIG	Diesel

- In stock
- ◆ Ships within one week



- 1/2" NPT male thread with 1/4" barb fitting
- Anti-spill protection
- Available with pressure relief and safety venting
- Provides tank breathing
- Thermal and pressure relief

**Technical data**

**Pipe thread:**  
1/2-14 PTF

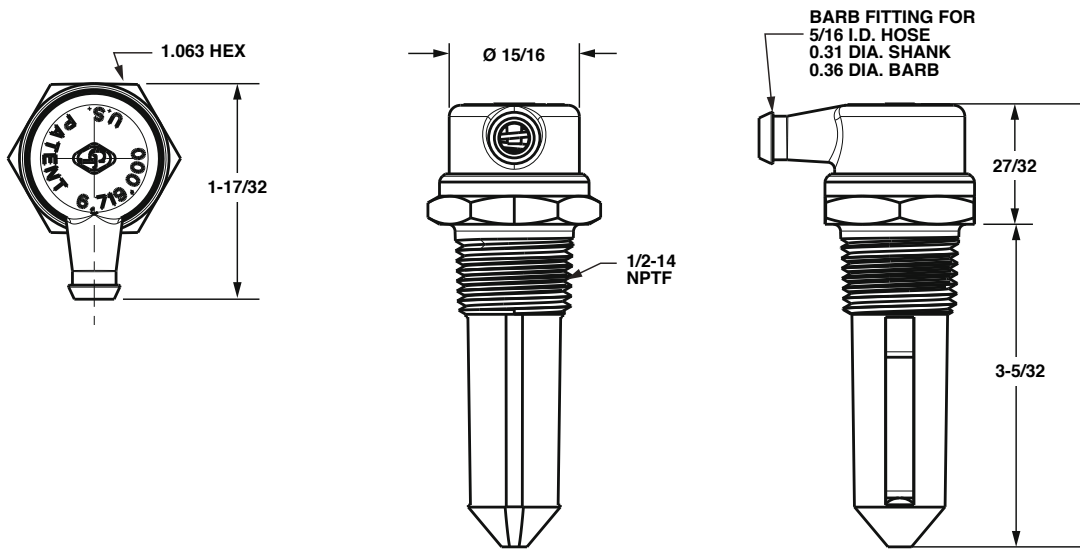
**Overflow hose diameter:**  
5/16" ID

**Outward flow rate:**  
70 SCFH @ 18" water pressure

**Hex size:**  
1.063"



**Dimensions (Inches)**



**1/2" NPT high flow fuel tank vent**

Models	Thermal Relief	Pressure Relief	Diesel/Gas
2989-11	● Yes	Yes	Diesel

- In stock
- ◆ Ships within one week

- Evenly distributes return flow of fuel to the fuel tanks
- Eliminates the need for a crossover line
- Features identical variable flow openings to control return fuel flow
- Provides proper fuel balance in dual tank systems

### Technical data

#### Material:

Heavy duty zinc die cast construction

#### Operating temperature:

-40°F to 180°F (-40°C to 82°C)

#### Port size:

1/2" NPT

#### Flow:

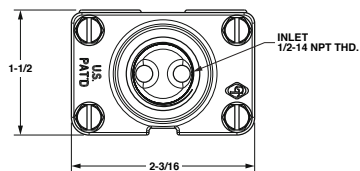
A2252-2D: Fuel flow of 60 GPH the back pressure is approximately 13 inches H<sub>2</sub>O when both ports are open, and 30 inches when the ports are closed

2252-1: Fuel flow of 60 GPH, the back pressure is approximately 20 inches H<sub>2</sub>O

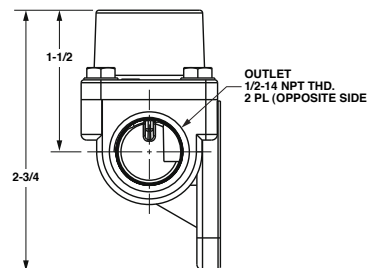
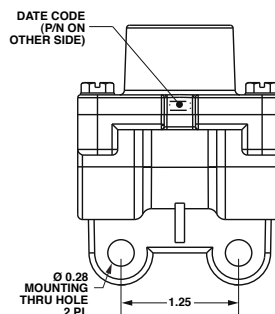
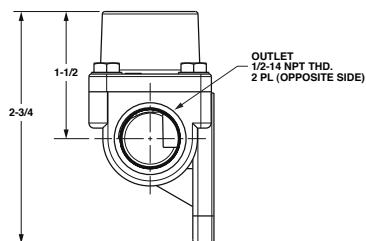
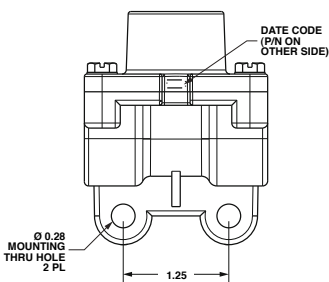
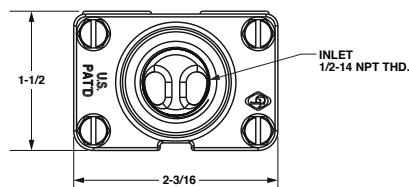


### Dimensions (Inches)

Return Flow Splitter  
2252-1



High-flow Return Flow Splitter  
A2252-2



### Return Flow Splitter, Tee, 1/2" ports

Models	Port Size	Thread Type	Flow
A2252-2D ●	1/2"-14	NPT	High
2252-1D ●	1/2"-14	NPT	Standard

- In stock
- ◆ Ships within one week

The breakaway valves will separate in the event of an impact and seal off both the fuel tanks and crossover lines

Prevents loss of fuel while leaving the system intact

Available in different mounting configurations for various applications

Valve shall flow less than 4.0 GPM of diesel fuel #2 at 70°F (21°C) at a different pressure of 1psi

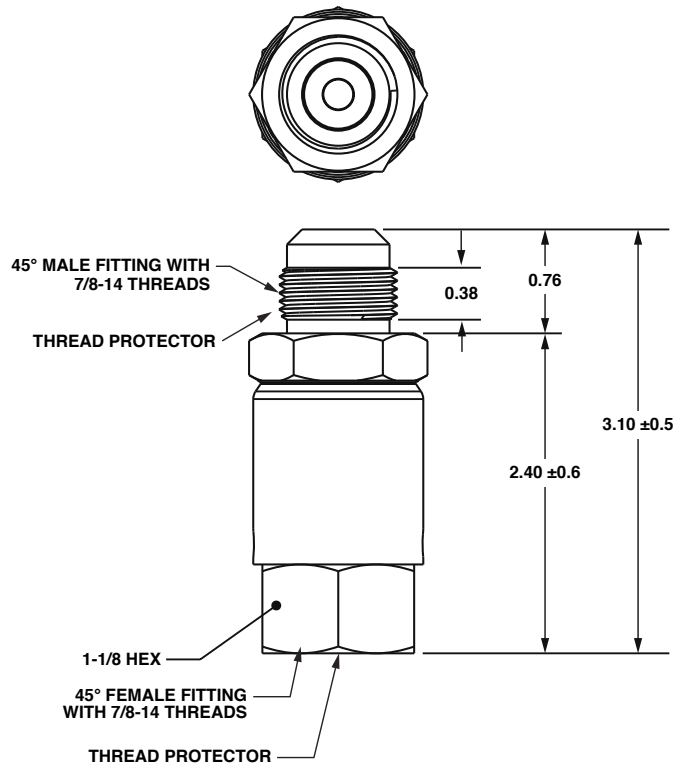


**Technical data**

**Operating temperature:**  
-40°F to 185°F (-40°C to 85°C)

**Port size:**  
Male end: 7/8"-14 NPT  
Female end: 7/8"-14 NPT

**Dimensions (Inches)**



**Fuel Crossover Line Protection**

Models	Port Size	Thread Type
2200-1 ●	7/8"-14	NPT

- In stock
- ◆ Ships within one week

**Fittings comply to Department of Transport Federal Motor Vehicle Safety Standard, (DOT FMVSS 106) (Mandatory requirements for Inch tube fittings in U.S.A.)**

**Simple tube connection and disconnection – no tools required**

**Fewer component parts – Internally machined form in body to secure collet, reduces number of potential leak paths**

**Corrosion resistant**

**Reduced assembly and maintenance times provide time/labor savings**

**Greater reliability and reduced testing**

**Ease of tube insertion in areas of restricted access**



### Technical data

#### Operating medium:

Compressed air

#### Maximum working pressure:

0 to 150 psi (0 to 10 bar)

#### Working temperature:

-40°F to 212°F (-40°C to 100°C)

#### Materials:

Body (Straights), Tube support, Collet

Body (Elbows, Tees) – Brass

'O' Ring – Nitrile

Thread Sealant – Precoat 5

#### Tubing:

Tube should be to SAE J844 (Imperial) or DIN 74324 (Metric)

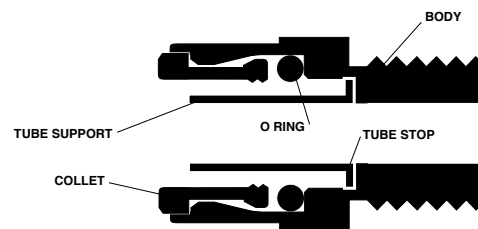
#### Standards and legislation:

Fittings and tubing comply to Department of Transport Federal Motor Vehicle Safety Standard, (DOT FMVSS 106)

(Mandatory requirements for Inch tube fittings in U.S.A.)

Society for Automotive Engineers (SAE) J2494 (Inch tube and fittings) and meet DIN 74324 and German TÜV requirements (Metric tube and fittings)

### Tube Connection/Disconnection



#### Body:

The body has an internally machined form to secure the Collet(s), O-ring(s) and Tube support(s): It also has internal and externally machined thread form(s) for connection to ports where applicable.

#### Collet:

The purpose of the collet is to grip the tube and ensure it is retained by the fitting at all times.

#### O-ring:

The O-ring is to ensure adequate interference between the tube and fitting body therefore providing a pneumatic seal at all times.

#### Tube Support:

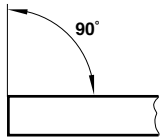
The tube support prevents the tube collapsing during extreme tensile loading conditions. Such conditions are only encountered during performance testing and far exceed those experienced during normal use.

● In stock

◆ Ships within one week

Dimensions in inches (mm).

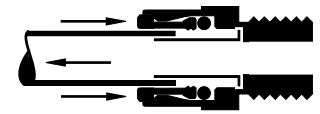
Tube Connection/Disconnection



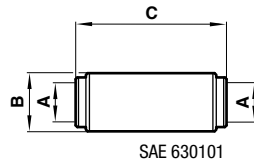
1. Ensure that the end of the tube is cut square and is free from burrs.
2. Push the tube through the collet into the fitting.



3. Continue pushing the tube through the O-ring until it bottoms on the tube stop. Then pull back on the tube to reinforce the collet teeth gripping action.

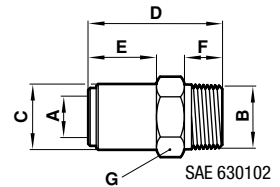


4. To disconnect: First ensure there is no air present. Push the tube into the fitting until it bottoms on the tube stop. Then pull back on the collet and withdraw the tube.



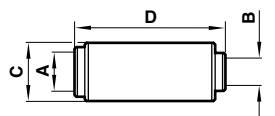
Union

Models	A Tube O/D	ØB	C
94450313M ●	3/16"	0.47	1.36
94450304M ●	1/4"	0.51	1.40
94450306M ●	3/8"	0.67	1.74
94450307M ●	1/2"	0.81	2.01
94450308M ●	5/8"	1.00	2.42
94450309M ●	3/4"	1.18	2.48



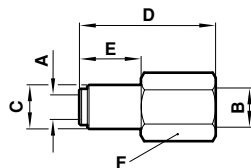
Male Connectors NPT

Models	A Tube O/D	B NPT	ØC	D	E	F	G A/F
95453003M ●	3/16"	1/8"	0.46	1.02	0.43	0.37	1/2"
95453004M ●	1/4"	1/8"	0.50	1.04	0.43	0.37	1/2"
95453010M ●	1/4"	1/4"	0.50	1.17	0.37	0.56	9/16"
95453018M ●	1/4"	3/8"	0.50	1.20	0.31	0.56	11/16"
95453006M ●	3/8"	1/8"	0.65	1.32	0.67	0.37	11/16"
95453012M ●	3/8"	1/4"	0.66	1.48	0.63	0.56	11/16"
95453020M ●	3/8"	3/8"	0.66	1.42	0.54	0.56	11/16"
95453029M ●	3/8"	1/2"	0.66	1.46	0.36	0.75	7/8"
95453013M ●	1/2"	1/4"	0.79	1.68	0.75	0.56	7/8"
95453021M ●	1/2"	3/8"	0.79	1.64	0.71	0.56	7/8"
95453030M ●	1/2"	1/2"	0.79	1.72	0.61	0.75	7/8"
95453022M ●	5/8"	3/8"	0.98	1.87	0.89	0.56	1-1/16"
95453031M ●	5/8"	1/2"	0.98	2.12	0.93	0.75	1-1/16"
95453049M ●	3/4"	1/2"	1.00	2.11	0.89	0.75	1-3/16"
95453055M ●	3/4"	3/4"	1.16	2.03	0.81	0.75	1-3/16"



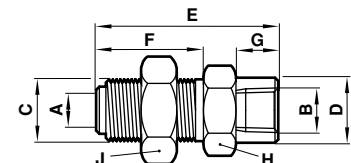
Reducing Unions (Inch)

Models	A Tube O/D	B Tube	ØC	D
94450448M ●	3/8"	1/4"	0.67	1.71
94450464M ●	1/2"	3/8"	0.81	1.91



Female Connectors NPT

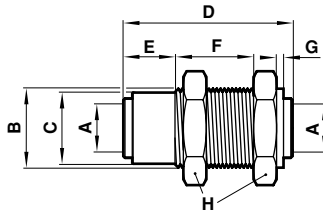
Models	A Tube O/D	B NPT	ØC	D	E	F
95435504M ●	1/4"	1/8"	0.51	1.31	0.72	9/16"
95435520M ●	3/8"	3/8"	0.65	1.78	0.88	7/8"
95435530M ●	1/2"	1/2"	0.91	2.11	0.96	11/16"



Female Bulkhead Connectors NPT Female, UNF

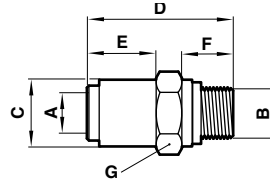
Models	A Tube O/D	B NPT Female	C UNF	ØD	E	F	G	H A/F	J A/F
95457006M ●	1/4"	1/8"	5/8"	0.63	1.32	0.69	0.28	0.87	15/16"
95457001M ●	1/4"	1/4"	5/8"	0.79	1.59	0.73	0.51	0.87	15/16"
95457003M ●	3/8"	1/4"	3/4"	0.79	2.20	1.30	0.51	0.94	1-1/8"
95457004M ●	3/8"	3/8"	3/4"	0.79	2.20	1.30	0.51	0.94	1-1/8"
95457005M ●	1/2"	3/8"	7/8"	-	1.89	1.50	-	1.06	1-5/16"
95457007M ●	1/2"	1/2"	7/8"	-	2.64	1.50	-	1.06	1-5/16"

- In stock
- ◆ Ships within one week

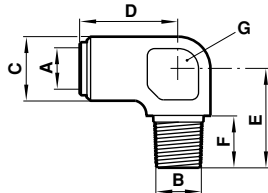

**Bulkhead Unions**

SAE 630103

Models	A Tube O/D	B Thread	Panel Hole $\phi$	$\phi$ C	D	E	F (Max)	G (Min)	H A/F
94450704M	● 1/4"	M15 x 1.0	0.61	-	1.41	-	0.87	0.08	0.87
94450706M	● 3/8"	M20 x 1.5	0.81	0.70	1.75	0.33	0.87	0.08	1.06

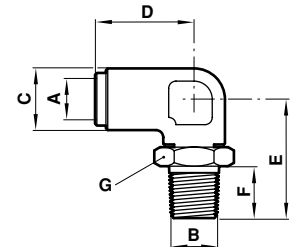

**Metric Male Connectors Inch (mm)**

Models	A Tube O/D	B Thread	$\phi$ C	D	E	F	A/F
94466631M	● 1/4"	M1 - x 1.0	0.51 (13.0)	1.12 (28.5)	0.53 (13.5)	0.39 (10.0)	0.55 (14)
94466633M	● 1/4"	M12 x 1.5	0.51 (13.0)	1.12 (28.5)	0.53 (13.5)	0.39 (10.0)	0.67 (17)
94466653M	● 3/8"	M12 x 1.5	0.51 (13.0)	1.12 (28.5)	0.53 (13.5)	0.39 (10.0)	0.67 (17)
9446665BP	● 1/2"	M16 x 1.5	0.81 (20.5)	1.54 (39.0)	0.75 (19.0)	0.47 (12.0)	0.87 (22)


**Male Elbows NPT**

SAE 630202

Models	A Tube O/D	B NPT	$\phi$ C	D	E	F	G A/F
95433103M	● 3/16"	1/8"	0.47	0.81	0.75	0.37	0.47
95433104M	● 1/4"	1/8"	0.55	0.81	0.79	0.37	0.55
95433110M	● 1/4"	1/4"	0.69	0.87	1.02	0.56	0.71
95433118M	● 1/4"	3/8"	0.82	0.94	1.10	0.56	0.87
95433127M	● 1/4"	1/2"	0.94	0.96	1.38	0.75	0.94
95433106M	● 3/8"	1/8"	0.69	1.08	0.87	0.37	0.71
95433112M	● 3/8"	1/4"	0.69	1.06	1.02	0.56	0.71
95433120M	● 3/8"	3/8"	0.82	1.14	1.10	0.56	0.87
95433129M	● 3/8"	1/2"	0.94	1.14	1.38	0.75	0.94
95433113M	● 1/2"	1/4"	0.87	1.22	1.14	0.56	0.87
95433121M	● 1/2"	3/8"	0.87	1.26	1.14	0.56	0.87
95433130M	● 1/2"	1/2"	0.94	1.28	1.38	0.75	0.94
95433198M	● 5/8"	3/8"	1.06	1.44	1.22	0.56	0.87
95433131M	● 5/8"	1/2"	1.15	1.54	1.42	0.75	1.18
95433149M	● 3/4"	1/2"	1.30	1.52	1.48	0.75	0.94
95433155M	● 3/4"	3/4"	1.15	1.59	1.50	0.75	1.18

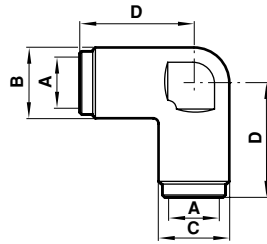

**Male Swivel Elbows NPT**

SAE 6302AA

Models	A Tube O/D	B NPT	$\phi$ C	D	E	F	G A/F
95411404M	● 1/4"	1/8"	0.51	0.83	0.91	0.37	0.43
95411410M	● 1/4"	1/4"	0.51	0.83	1.12	0.56	0.55
95411418M	● 1/4"	3/8"	0.59	0.85	1.25	0.56	0.75
95411406M	● 3/8"	1/8"	0.67	1.07	1.05	0.37	0.55
95411412M	● 3/8"	1/4"	0.67	1.07	1.29	0.56	0.75
95411420M	● 3/8"	3/8"	0.67	1.07	1.24	0.56	0.75
95411429M	● 3/8"	1/2"	0.67	1.07	1.44	0.75	0.87
95411413M	● 1/2"	1/4"	0.81	1.27	1.27	0.56	0.87
95411421M	● 1/2"	3/8"	0.81	1.27	1.42	0.56	0.87
95411430M	● 1/2"	1/2"	0.81	1.27	1.62	0.75	0.87
95411449M	● 3/4"	1/2"	1.18	1.52	1.77	0.75	0.87

CAUTION: Swivel adapters are not suitable for use in continuously rotating or gyrating applications.

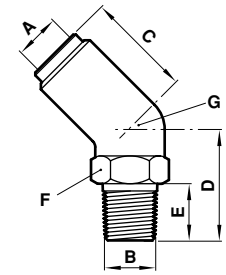
- In stock
- ◆ Ships within one week



**Union Elbows**

SAE 630201

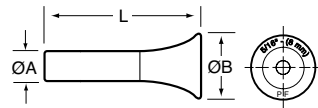
Models	A Tube O/D	ØB	ØC	D
94451104BP ●	1/4"	0.43	0.51	0.83
94451106M ●	3/8"	0.57	0.67	1.07
94451107M ●	1/2"	0.71	0.81	1.26



**45° Male Elbows NPT**

SAE 630302

Models	A Tube O/D	B NPT	C	D	E	F A/F	G A/F
95460004M ●	1/4"	1/8"	0.87	0.81	0.37	0.56	-
95460010M ●	1/4"	1/4"	0.89	0.98	0.56	0.56	-
95460006M ●	3/8"	1/8"	1.02	0.93	0.37	0.75	-
95460012M ●	3/8"	1/4"	1.06	1.10	0.56	0.75	-
95460020M ●	3/8"	3/8"	1.10	1.12	0.56	0.75	-
95460029M ●	3/8"	1/2"	1.14	1.30	0.75	0.87	-
95460013M ●	1/2"	1/4"	1.22	1.10	0.56	0.87	-
95460021M ●	1/2"	3/8"	1.26	1.12	0.56	0.87	-
95460030M ●	1/2"	1/2"	1.30	1.30	0.75	0.87	-
95460022M ●	5/8"	3/8"	1.46	1.02	0.56	-	1.06
95460031M ●	5/8"	1/2"	1.46	1.22	0.75	-	1.06
95460049M ●	3/4"	1/2"	1.52	1.30	0.75	1.00	-

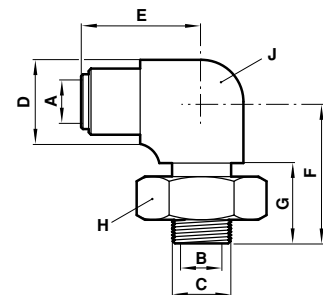


**Plug\***

SAE 630109

Models	A O/D Stem	ØB	L
94050904BP ●	1/4"	0.46	1.12
94050906BP ●	3/8"	0.65	1.34

\* Material: Thermoplastic

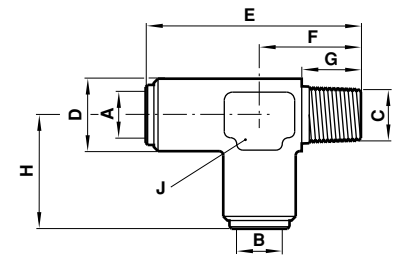


SAE 631403

**Male Bulkhead Elbows, NPT Female, UNF**

Models	A Tube O/D	B NPT Female	C UNF	ØD	E	F	G	H A/F	J A/F
95459704M ●	1/4"	1/8"	5/8"	0.81	1.00	1.18	0.63	15/16"	0.87
95459702M ●	1/2"	3/8"	7/8"	1.02	1.33	1.61	0.98	1-5/16"	0.67

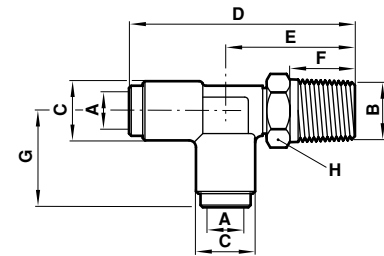
- In stock
- ◆ Ships within one week



SAE 630424

### Male Run Tees NPT

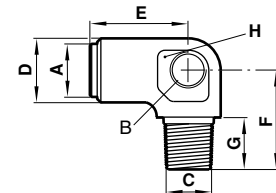
Models	A Tube O/D	B Tube O/D	C NPT	ØD	E	F	G	H	J A/F
95458628M ●	1/4"	1/4"	1/8"	0.55	1.67	0.79	0.37	0.89	0.55
95458613M ●	1/4"	1/4"	1/4"	0.69	1.85	0.96	0.56	0.89	0.71
95458617M ●	1/4"	1/4"	3/8"	0.82	2.03	1.10	0.56	0.93	0.87
95458607M ●	1/4"	3/8"	3/8"	0.82	2.03	1.10	0.56	1.14	0.87
95458605M ●	3/8"	1/4"	1/4"	0.69	2.05	0.96	0.56	0.93	0.71
95458627M ●	3/8"	1/4"	3/8"	0.82	2.24	1.10	0.56	0.93	0.87
95458603M ●	3/8"	3/8"	1/4"	0.69	2.05	0.96	0.56	1.08	0.71
95458610M ●	3/8"	3/8"	3/8"	0.82	2.24	1.10	0.56	1.14	0.87
95458604M ●	3/8"	3/8"	1/2"	0.91	2.64	1.42	0.75	1.22	0.94
95458626M ●	3/8"	1/2"	3/8"	0.87	2.36	1.14	0.56	1.30	0.87
95458620M ●	1/2"	3/8"	3/8"	0.87	2.44	1.14	0.56	1.22	0.87
95458611M ●	1/2"	1/2"	3/8"	0.87	2.44	1.14	0.56	1.30	0.87



SAE 6308AB

### Male Swivel Run Tees NPT

Models	A Tube O/D	B NPT	ØC	D	E	F	G	H A/F
95411210M ●	1/4"	1/4"	0.51	1.95	1.12	0.56	0.83	0.55
95411212M ●	3/8"	1/4"	0.67	2.36	1.29	0.56	1.07	0.75



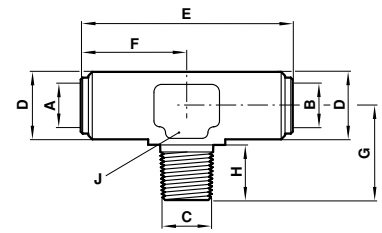
### 90° Fixed Tee

Models	A Tube O/D	B NPT Female	C NPT	ØD	E	F	G	H
95456503M ●	3/8"	1/8"	3/8"	0.83	1.12	1.10	0.56	0.87
95456504M ●	3/8"	1/8"	1/4"	0.83	1.20	1.10	0.56	0.87
95456501M ●	1/2"	1/8"	3/8"	0.87	1.26	1.14	0.56	0.87
95456502M ●	1/2"	1/4"	1/2"	0.94	1.28	1.38	0.75	0.94

Note: Ports are threaded on side shown.

- In stock
- ◆ Ships within one week

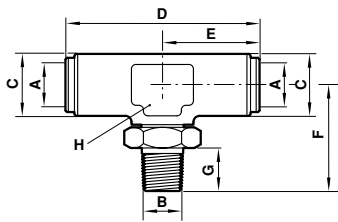




SAE 630425

**Male Branch Tees NPT**

Models	A Tube O/D	B Tube O/D	C NPT	ØD	E	F	G	H	J
95459002M ●	1/4"	1/4"	1/8"	0.55	1.69	0.85	0.79	0.37	0.55
95459012M ●	1/4"	1/4"	1/4"	0.69	1.77	0.89	0.96	0.56	0.71
95459016M ●	3/8"	1/4"	1/4"	0.69	1.97	0.89	0.96	0.56	0.71
95459010M ●	3/8"	3/8"	1/4"	0.69	2.17	1.08	0.96	0.56	0.71
95459004M ●	1/2"	1/2"	1/2"	0.91	2.68	1.34	1.42	0.75	0.94

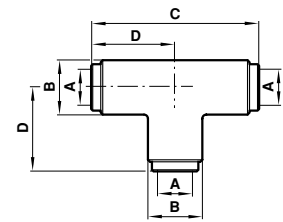


SAE 6304AC

**Male Swivel Branch Tees NPT**

Models	A Tube O/D	B NPT	ØC	D	E	F	G	H A/F
95411104M ●	1/4"	1/8"	0.51	1.67	0.83	0.91	0.37	0.43
95411112M ●	3/8"	1/4"	0.67	2.17	1.08	1.29	0.56	0.75
95411120M ●	3/8"	3/8"	0.67	2.17	1.08	1.24	0.56	0.75
95411121M ●	1/2"	3/8"	0.81	2.56	1.28	1.42	0.56	0.87
95411130M ●	1/2"	1/2"	0.81	2.56	1.28	1.62	0.75	0.87

CAUTION: Swivel adapters are not suitable for use in continuously rotating or gyrating applications.



SAE 630401

**Union Tee**

Models	A Tube O/D	ØB	C	D
94451404M ●	1/4"	0.51	1.65	0.83
94451406M ●	3/8"	0.67	2.13	1.07
94451407M ●	1/2"	0.81	2.53	1.26
94451408M ●	5/8"	1.06	3.07	1.54

- In stock
- ◆ Ships within one week

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000000**	VAL-94	12467**	FIT-07
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0100**	VAL-35	12VA0**	FIT-32
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050**	SAS-21	1347**	SAS-16
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0774*	SAS-17	176**	LS-07
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08608**	SAS-10	176**	LS-11
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11-042**	APP-50	2252-1D	CV-36
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EA1255B1	ACT-13	KR4	VAL-67
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EJ0155B1**	ACT-17	KT2	VAL-60
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