



Precision Engineering

1.800.514.0129

store.norgren.com/us

Engineering
GREAT Solutions



Express Catalog

**Availability,
Speed,
Expertise**





Engineering GREAT solutions

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

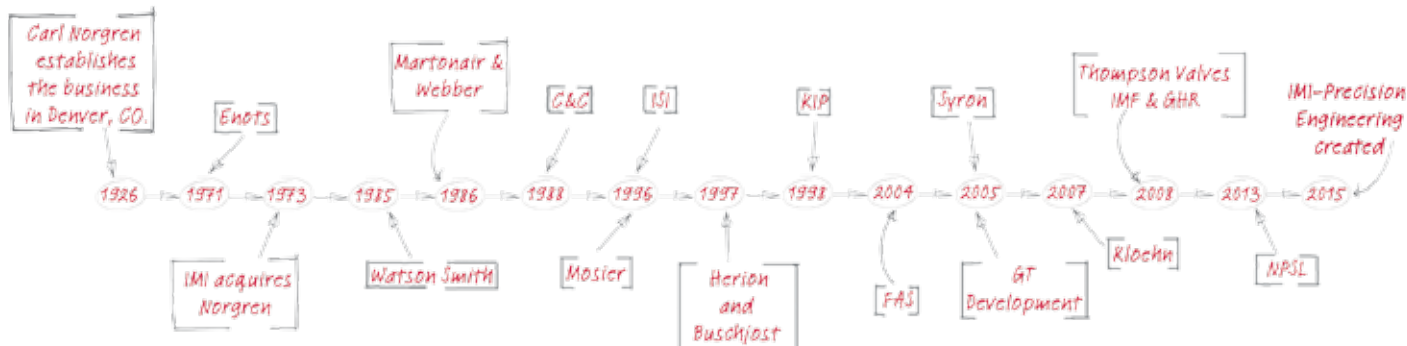


IMIPrecision Engineering is a world leader in motion and fluid control technologies. Wherever precision, speed and engineering reliability are essential, we deliver exceptional solutions which improve the productivity and efficiency of our customers' equipment.

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.



Contents

Express Catalog

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1

ACTUATORS

FAST FIND GUIDE PAGE ACT-A



2

VALVES

FAST FIND GUIDE PAGE VAL-A



3

SWITCHES AND SENSORS

FAST FIND GUIDE PAGE SAS-A



4

AIR PREPARATION

FAST FIND GUIDE PAGE APP-A



5

FITTINGS AND ACCESSORIES

FAST FIND GUIDE PAGE FIT-A



6

LIFE SCIENCES

FAST FIND GUIDE PAGE LS-A



7

COMMERCIAL VEHICLE

FAST FIND GUIDE PAGE CV-A



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



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.

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.

PART NUMBER CONVERSIONS AT YOUR FINGERTIPS



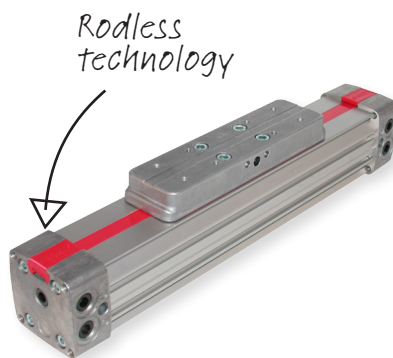
Not seeing results? Try stripping down your part number to its most basic form based on the part numbering scheme of your existing supplier. Our online tools and technical experts available by phone or available to chat online will help you build back your complete configuration.

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

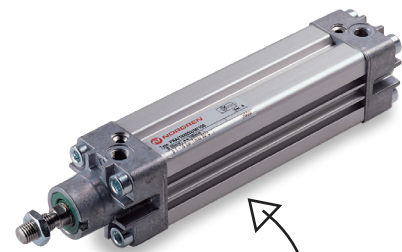


NFPA



Rodless
technology

Double acting,
compact design



ISO

IMI Precision Engineering offers one of the industry's most comprehensive line of pneumatic actuators. From 5/16" to 12" bores, NFPA, 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

NFPA A-Series
Aluminum
Ø 1-1/2" to 4"
-20°F to 200°F



ACT-04

NFPA J-Series
Steel
Ø 1-1/2" to 4"
-20°F to 200°F



ACT-14

NFPA Series SS
Stainless Steel
Ø 1-1/2" to 4"
-20°F to 200°F



ACT-24

Series N NFPA
Non-rotating
1-1/2" to 4"
-20°F to 200°F



ACT-32

ISO/VDMA CYLINDERS

ISO/VDMA
Ø 32 to 100 mm



ACT-36

ISO/VDMA Profile
Ø 32 to 100 mm



ACT-38

ROUNDLINE STAINLESS STEEL BODY

Roundline Plus
Stainless Steel
Ø 5/16" to 3"
-20°F to 200°F



ACT-40

RPD Series Roundline Plus Acetal Resin caps
Ø 9/16" to 2"
32°F to 160°F



ACT-50

F-SERIES PLUS COMPACT

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



ACT-54

LINTRA® PLUS RODLESS CYLINDERS

LINTRA Plus
C/146000
Ø 25 to 63 mm
-22°F to 176°F



ACT-57

LINTRA Plus
C/146100
Ø 25 to 63 mm
-22°F to 176°F



ACT-57

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

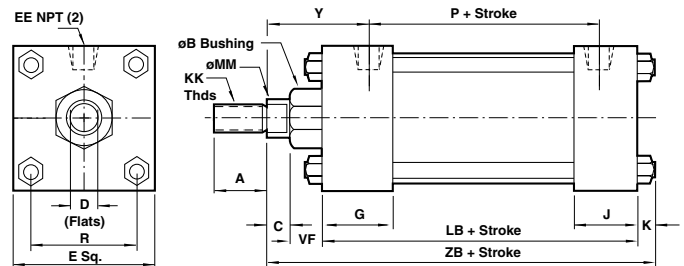
Bore	Rod eye	Rod clevis	Eye bracket	Rod alignment coupler
1-1/2"	 49015A ●	 49028A ●	 49021 ●	 CC-1-07 ●
2"	49015A ●	49028A ●	49021 ●	CC-1-07 ●
2-1/2"	49015A ●	49028A ●	49021 ●	CC-1-07 ●
3-1/4"	49013A ●	49030A ●	49020 ●	CC-1-12 ●
4"	49013A ●	49030A ●	49020 ●	CC-1-12 ●

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

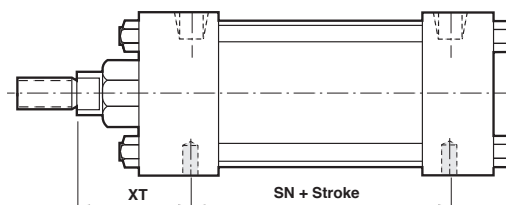
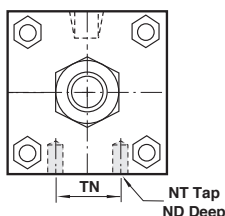


- In stock
- ◆ Ships within one week

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

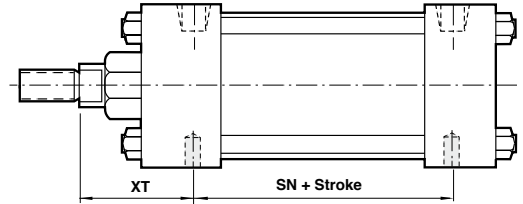
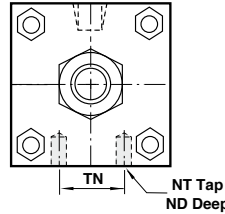
Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	Tube O.D.	Rod Bearing kit	Service kit	
										
A0133A1-1.50X1.000-PS	●	1-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
A0133A1-1.50X2.000-PS	●	1-1/2	2	3/8	C24250638	C24470638	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

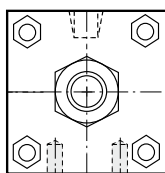
Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	Tube O.D.	Rod Bearing kit	Piston seal kit	Cushion seal kit
										
A0177A1-1.50X1.000-PS	1-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
A0177A1-1.50X2.000-PS	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

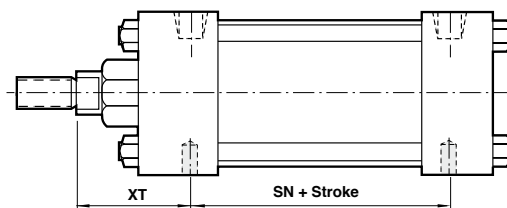
Side Tapped (MS4) With Impact Dampening Ecology Seals, fixed cushion

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




TN NT Tap
ND Deep



Models

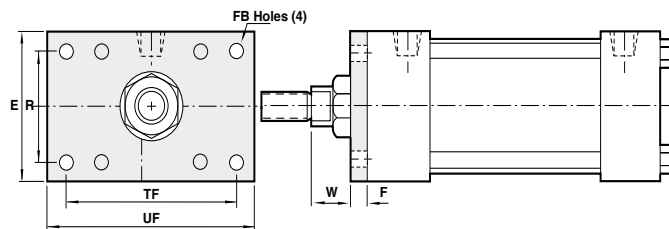
Accessories







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

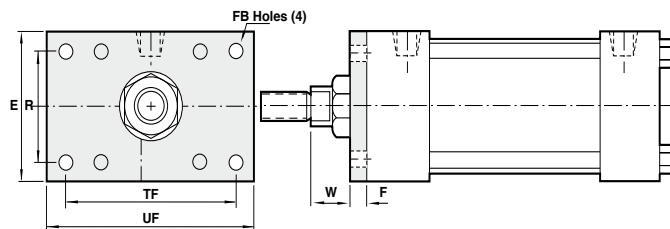
Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	Tube O.D.	Rod Bearing kit	Piston seal kit
									
A0333A1-1.50X1.000-PS	● 1-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
A0333A1-1.50X2.000-PS	● 1-1/2	2	3/8	C24250638	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

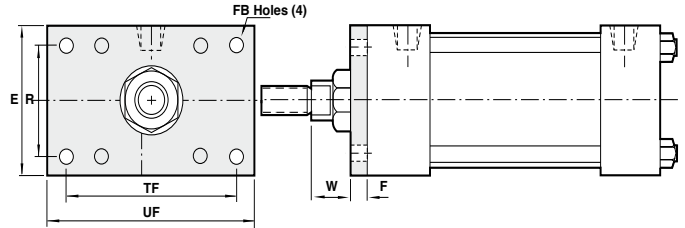
Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	Tube O.D.	Rod Bearing kit	Piston seal kit	Cushion seal kit	
 A0377A1-1.50X1.000-PS	●	1-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
A0377A1-1.50X2.000-PS	●	1-1/2	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

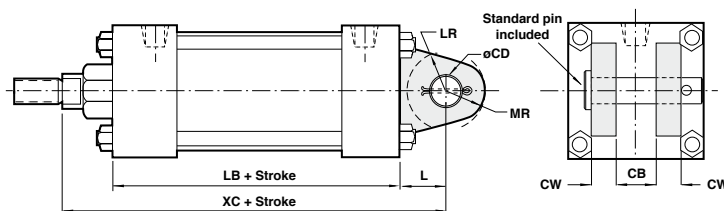
Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	Tube O.D.	Rod Bearing kit	Piston seal kit	Cushion seal kit	
											
EA0355A1-1.50X1.000-PS	●	1-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EA0355A1-1.50X2.000-PS	●	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

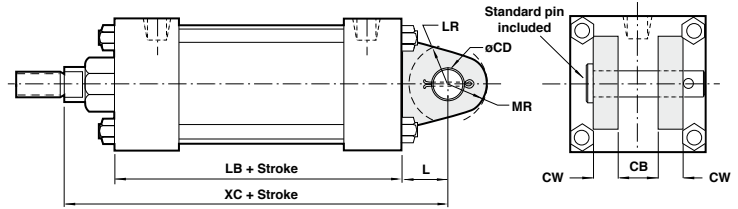
Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	Tube O.D.	Rod Bearing kit	Piston seal kit	
										
A1233A1-1.50X1.000-PS	●	1-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
A1233A1-1.50X2.000-PS	●	1-1/2	2	3/8	C24250638	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

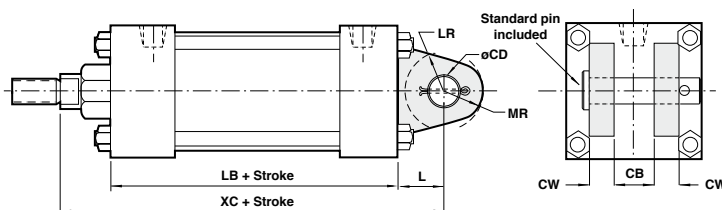
Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	Tube O.D.	Rod Bearing kit	Piston seal kit	Cushion seal kit
										
A1277A1-1.50X1.000-PS	● 1-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
A1277A1-1.50X2.000-PS	● 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

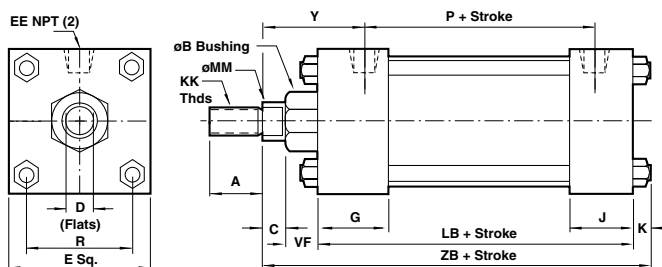
Tie Rods: high-tensile strength steel

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

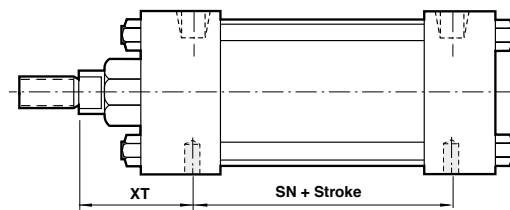
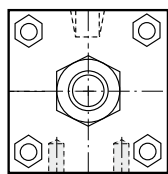


- In stock
- ◆ Ships within one week

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

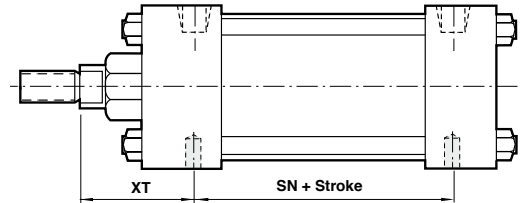
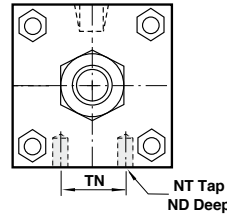
Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	Tube O.D.	Rod Bearing kit	Piston seal kit	
 J0133A1-1.50X1.000	●	1-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
J0133A1-1.50X2.000	●	1-1/2	2	3/8	C24250638	C24470638	C2VA00638	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

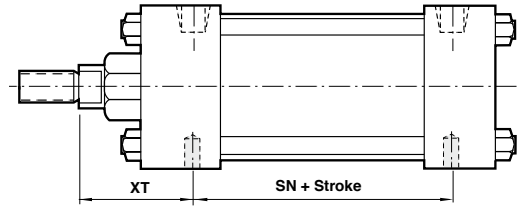
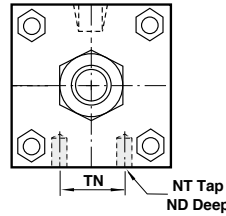
Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	Tube O.D.	Rod Bearing kit	Piston seal kit	Cushion seal kit
 J0177A1-1.50X1.000	● 1-1/2	1	3/8				3/8			
J0177A1-1.50X2.000	● 1-1/2	2	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	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

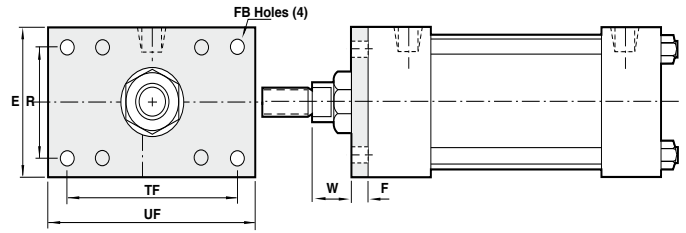
Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Accessories							
				Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	Tube O.D.	Rod Bearing kit	Piston seal kit	Cushion seal kit	
 EJ0155A1-1.50X1.000	●	1-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EJ0155A1-1.50X2.000	●	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

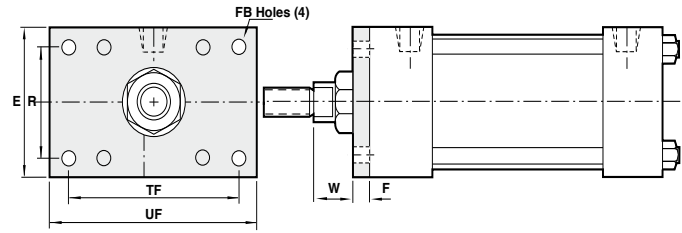
Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	Tube O.D.	Rod Bearing kit	Piston seal kit	
										
J0333A1-1.50X1.000	●	1-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153
J0333A1-1.50X2.000	●	1-1/2	2	3/8	C24250638	C24470638	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

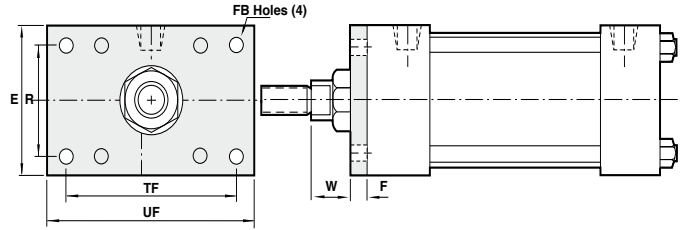
Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	Tube O.D.	Rod Bearing kit	Piston seal kit	Cushion seal kit
 J0377A1-1.50X1.000	● 1-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
J0377A1-1.50X2.000	● 1-1/2	2	3/8	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

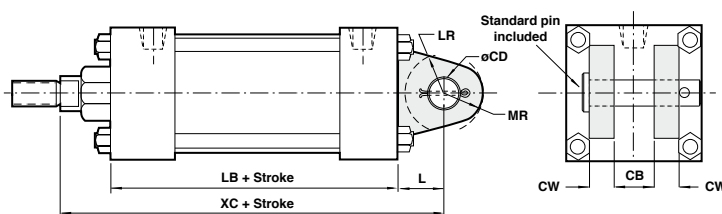
Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	Tube O.D.	Rod BEJring kit	Piston sEJ kit	Cushion sEJ kit	
											
EJ0355A1-1.50X1.000	●	1-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	EJK-153	CSK-15-13
EJ0355A1-1.50X2.000	●	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

Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT
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Accessories

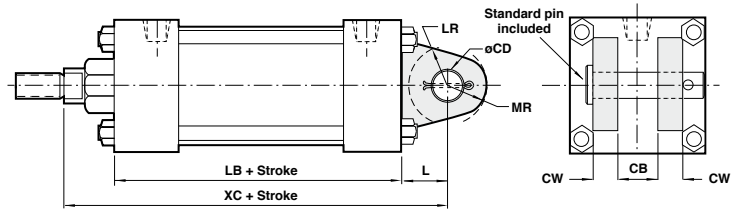
Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	Tube O.D.	Rod Bearing kit	Piston seal kit
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

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

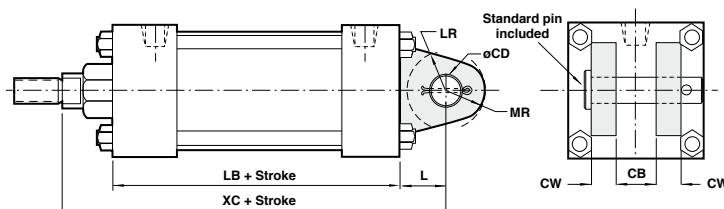
Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	Tube O.D.	Rod Bearing kit	Piston seal kit	Cushion seal kit
										
J1277A1-1.50X1.000	● 1-1/2	1	3/8	C24250638	C24470638	C2VA00638	3/8	RBK-15	AJK-153	CSK-15-13
J1277A1-1.50X2.000	● 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 sEJI kit	Cushion sEJI 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

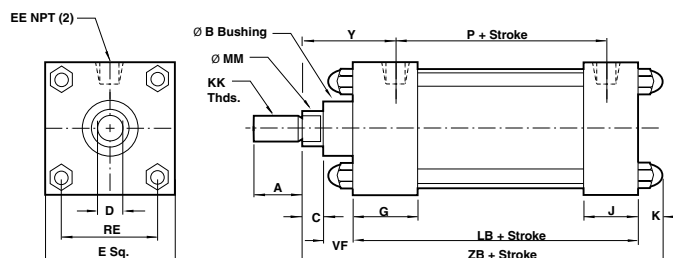
Tie Rods: 303 stainless steel

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

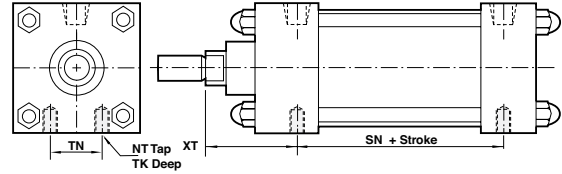


- In stock
- ◆ Ships within one week

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

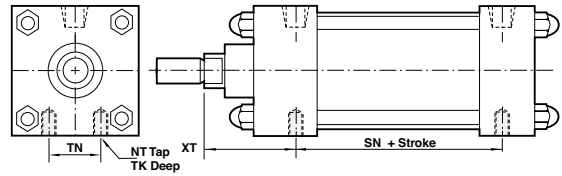
Accessories





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

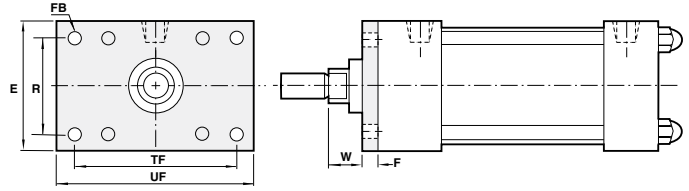
Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight fitting	90° Elbow fitting	Tube O.D.	Piston seal kit
							
SC01A-B02-EMA00	1-1/2	1	3/8	D24250638	D24450638	3/8	SSK-03
SC02A-B02-EMA00	1-1/2	2	3/8	D24250638	D24450638	3/8	SSK-03
SC03A-B02-EMA00	1-1/2	3	3/8	D24250638	D24450638	3/8	SSK-03
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

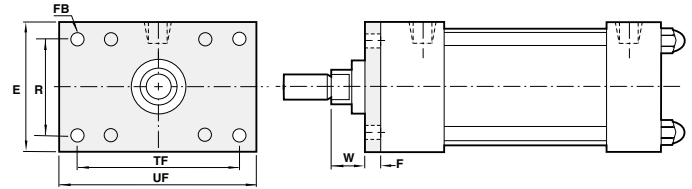
Model Number	Cylinder Bore Ø	Stroke inches	Port Size NPT	Straight fitting	90° Elbow fitting	Tube O.D.	Piston seal kit
							
SC01A-B04-EAA00 ◆	1-1/2	1	3/8	D24250638	D24450638	3/8	SSK-03
SC02A-B04-EAA00 ◆	1-1/2	2	3/8	D24250638	D24450638	3/8	SSK-03
SC03A-B04-EAA00 ◆	1-1/2	3	3/8	D24250638	D24450638	3/8	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

Accessories

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				
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

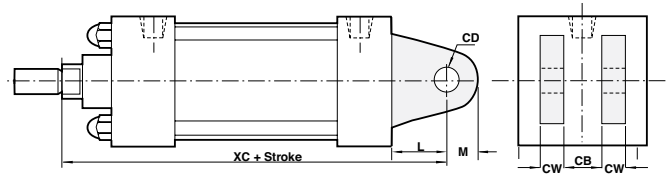
- In stock
- ◆ Ships within one week

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

Accessories



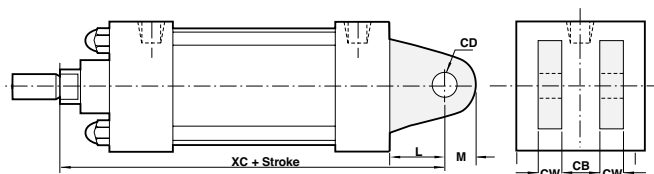
Models





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				
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

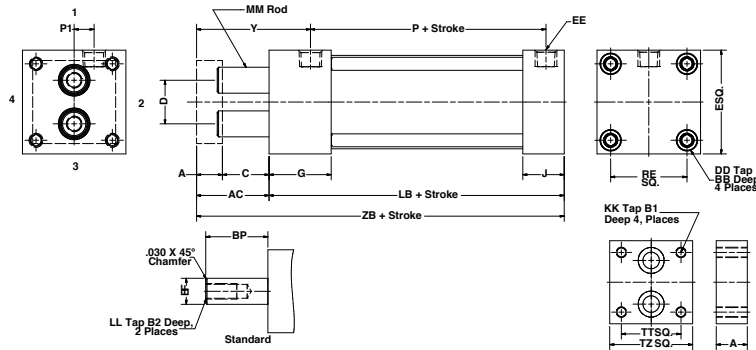
Models

Bore	Eye bracket
1-1/2"	49021 ●
2"	49021 ●
2-1/2"	49021 ●
3-1/4"	49020 ●
4"	49020 ●

Accessories

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)

Basic Cylinder



Dimensions in Inches

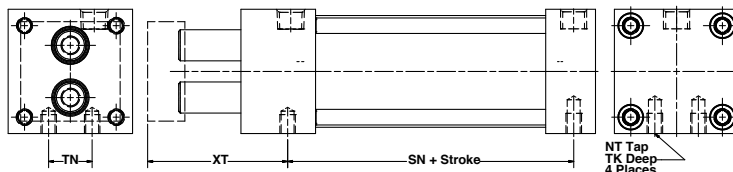
Bore	A	AC	B1	B2	BB	BF	BP	C	D	DD	E	EE	
1-1/2"	0.625	1.875	Thru	0.625	0.312	0.375	1.375	1.25	0.75	1/4 - 28	2	1/4	
2"	0.75	1.875	Thru	0.625	0.312	0.625	1.25	1.125	1.052	5/16 - 24	2.5	1/4	
2-1/2"	0.75	2.125	Thru	0.75	0.312	0.625	1.5	1.375	1.398	5/16 - 24	3	1/4	
3-1/4"	1.25	2.375	Thru	1	0.437	1	1.25	1.125	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

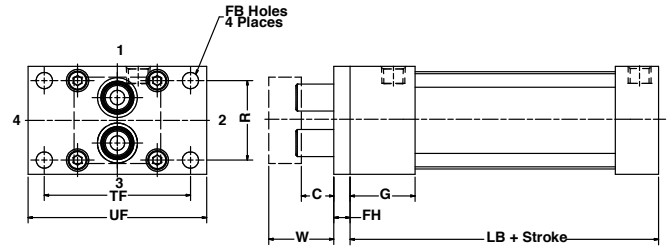
Bottom Tap Horizontal Rods		Bottom Tap Vertical Rods	Cylinder Bore Ø	Stroke Inches	Port size NPT	Accessories				
Model number	Model number					Straight Fitting	90° Swivel Elbow fitting	Banjo Flow Control	Tube O.D.	Piston Seal kit
NC01A-E02-AMCMO	NC01A-N02-AMCMO		1-1/2	1	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-03
NC02A-E02-AMCMO	NC02A-N02-AMCMO		1-1/2	2	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-03
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		1-1/2	4	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-03
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		1-1/2	6	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-03
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		1-1/2	10	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-03
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		2	1	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-04
ND02A-E02-AMCMO	ND02A-N02-AMCMO		2	2	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-04
ND03A-E02-AMCMO	ND03A-N02-AMCMO		2	3	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-04
ND04A-E02-AMCMO	ND04A-N02-AMCMO		2	4	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-04
ND05A-E02-AMCMO	ND05A-N02-AMCMO		2	5	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-04
ND06A-E02-AMCMO	ND06A-N02-AMCMO		2	6	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-04
ND08A-E02-AMCMO	ND08A-N02-AMCMO		2	8	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-04
ND10A-E02-AMCMO	ND10A-N02-AMCMO		2	10	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-04
ND12A-E02-AMCMO	ND12A-N02-AMCMO		2	12	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-04
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		2-1/2	2	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-05
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		2-1/2	4	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-05
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		2-1/2	6	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-05
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		2-1/2	10	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-05
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		3-1/4	1	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-065
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		3-1/4	3	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-065
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		3-1/4	5	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-065
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		3-1/4	8	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-065
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		3-1/4	12	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-065
NG01A-E02-AMCMO	NG01A-N02-AMCMO		4	1	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-08
NG02A-E02-AMCMO	NG02A-N02-AMCMO		4	2	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-08
NG03A-E02-AMCMO	NG03A-N02-AMCMO		4	3	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-08
NG04A-E02-AMCMO	NG04A-N02-AMCMO		4	4	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-08
NG05A-E02-AMCMO	NG05A-N02-AMCMO		4	5	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-08
NG06A-E02-AMCMO	NG06A-N02-AMCMO		4	6	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-08
NG08A-E02-AMCMO	NG08A-N02-AMCMO		4	8	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-08
NG10A-E02-AMCMO	NG10A-N02-AMCMO		4	10	3/8	C24250638	C24470638	C2VA00638	3/8	NCSK-08
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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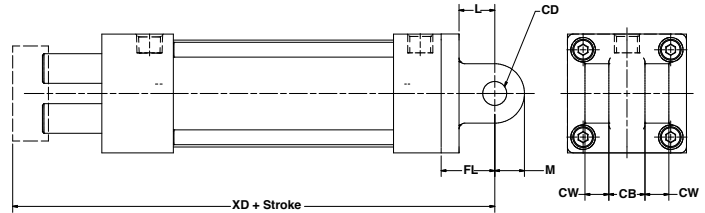
NC01A-E04-AMCMO	NC01A-N04-AMCMO	1-1/2	1	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-03
NC02A-E04-AMCMO	NC02A-N04-AMCMO	1-1/2	2	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-03
NC03A-E04-AMCMO	NC03A-N04-AMCMO	1-1/2	3	1/4	C24250428	C24470428	C2VA00428	1/4	NCSK-03
NC04A-E04-AMCMO	NC04A-N04-AMCMO	1-1/2	4	1/4	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

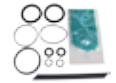


Models

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:

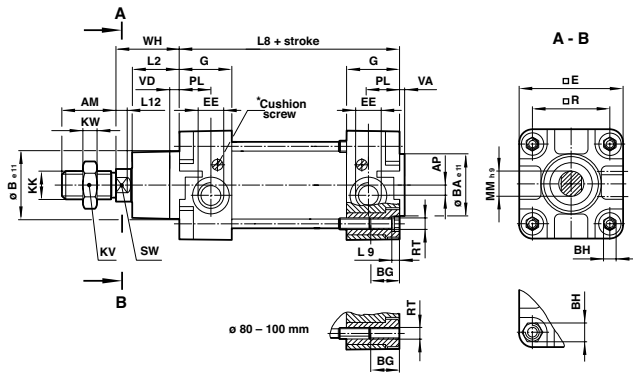
-4°F to +176°F (-20°C to +80°C) max. Consult our Technical Service for use below +35°F (+2°C)

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	
												lbs./0 mm	lbs./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	1.76 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

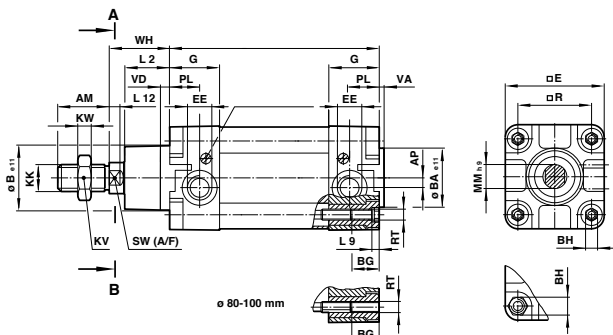
Barrel: anodized aluminum
End covers: pressure diecast aluminium
Piston rod: 303 stainless steel
Piston rod seals: polyurethane
Piston seals: polyurethane
'O'-rings: nitrile rubber



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

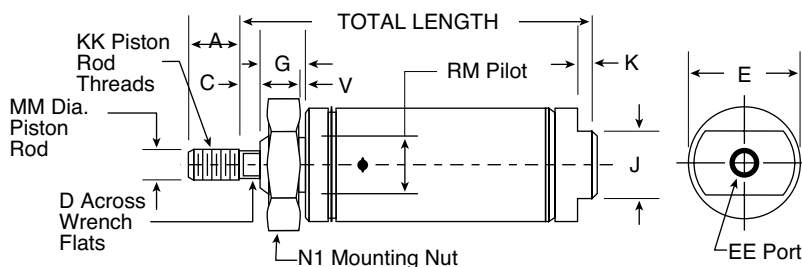


Accessories

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

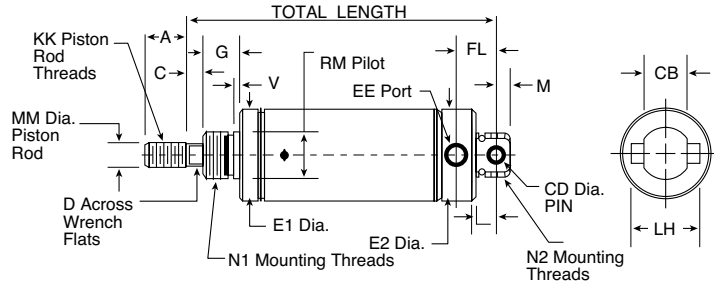
Bore	A	C	D	E	EE	G	J	K	KK	MM	N1	RM	V	Total Length
5/16"	0.38	N/A	N/A	0.36	10-32	0.25	N/A	N/A	5-40	0.125	1/4-28	.309/.312	0.03	1.12 + (0.75 per 1/2" of stroke)
7/16"	0.50	N/A	N/A	0.50	10-32	0.31	0.38	0.19	10-32	0.187	3/8-24	.369/.373	0.05	1.31 + (0.94 per 1/2" of stroke)
9/16"	0.50	N/A	N/A	0.62	10-32	0.38	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**



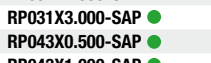
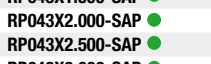
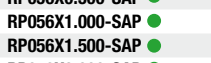


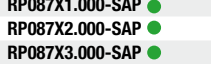
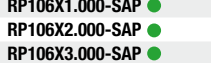

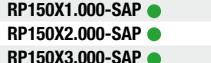
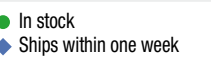




Dimensions in Inches

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)

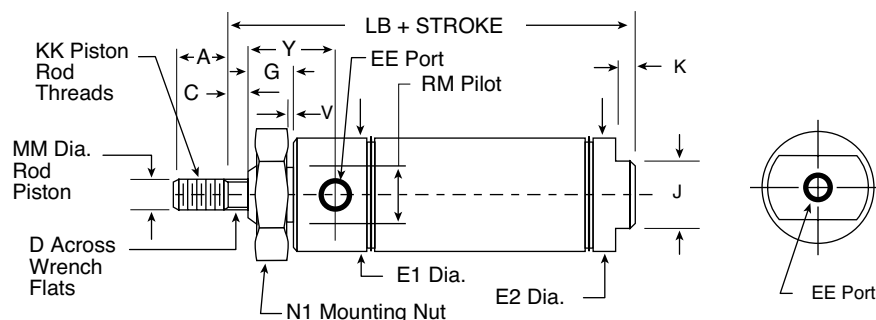
Models

Accessories

Model Number	Cylinder Bore Ø	Stroke inches	Port Size	Straight fitting	90° Swivel Elbow fitting	Banjo flow control	Tube O.D.	
	RP031X0.500-SAP	5/16	1/2	10-32 UNF	C24250410	C24470410	C2VA00410	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"

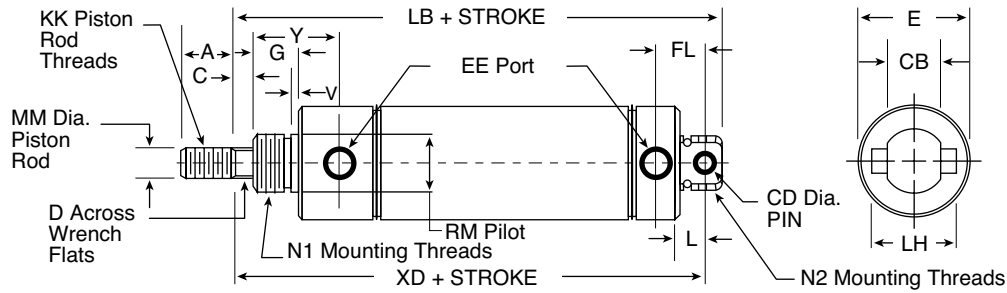
- In stock
- ◆ Ships within one week

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"

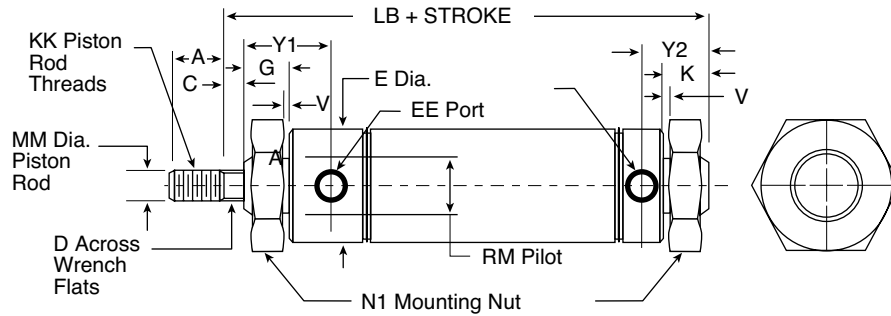
- In stock
- ◆ Ships within one week

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	 C24250410	 C24470410	 C2VA00410	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



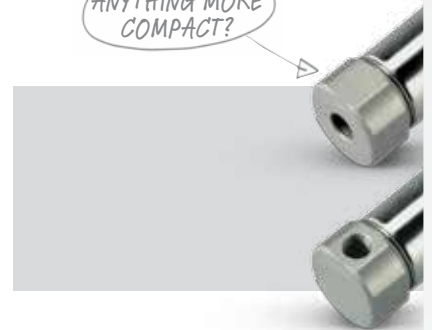
ISO ROUNDLINE CYLINDERS

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.

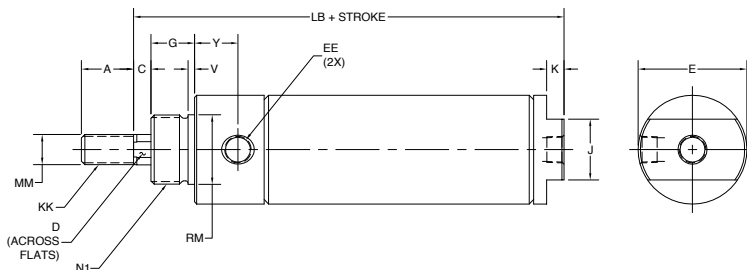
Materials:

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

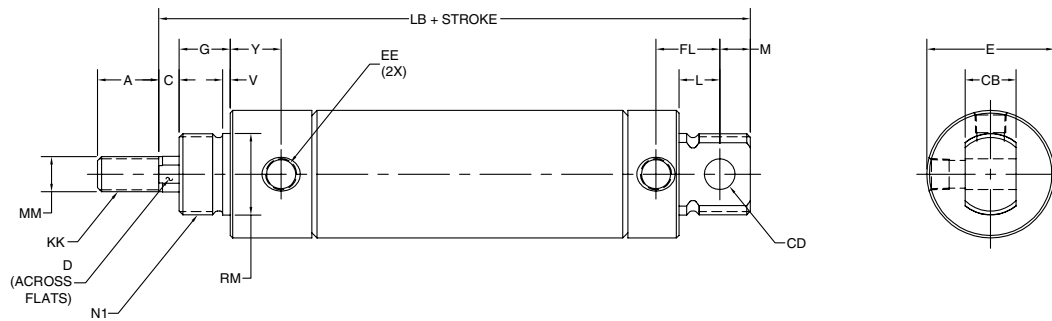
Double Acting with Nose Mount (DAN)

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

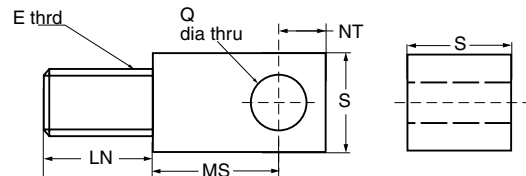
Head and Cap: Clear Anodized Aluminum Alloy

Piston Rod: 303 Stainless Steel

Rod Bearing: Oil Impregnated Bronze

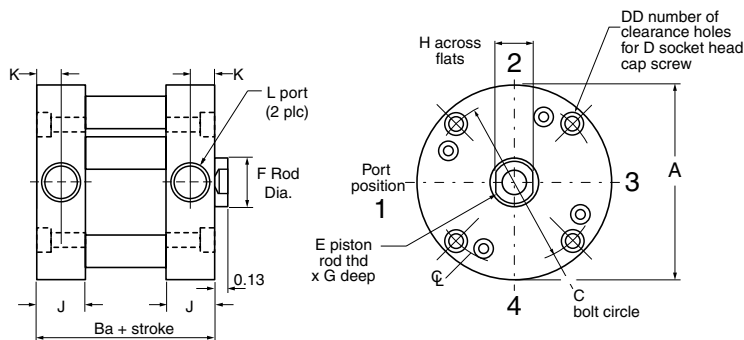
Piston: Aluminum Alloy

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.

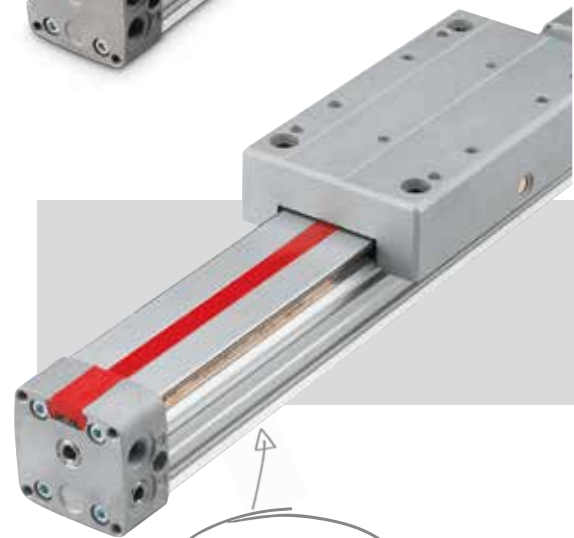
The latest version also has slots to take the standard M/50 series switch, along with grooves which accept industry-standard aluminum machine building systems.

> 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

Mounts

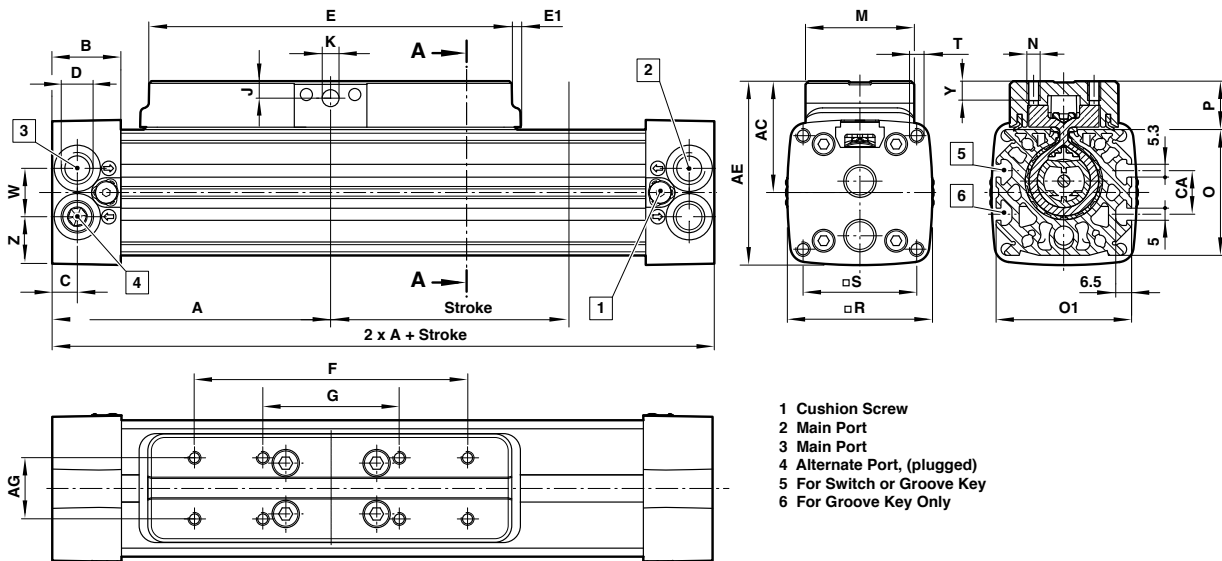
Bore	Foot mounts	Center support	Groove key for guided carriage	Groove key for profile barrel
				
25	QM/146025/21 ●	QM/146025/32 ●	M/P74065 ●	M/P74065 ●
32	QM/146032/21 ●	QM/146032/32 ●	M/P74065 ●	M/P74065 ●
40	QM/146040/21 ●	QM/146040/32 ●	M/P74066 ●	M/P74065 ●
50	QM/146050/21 ●	QM/146050/32 ●	M/P41858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

Dimensions in Inches

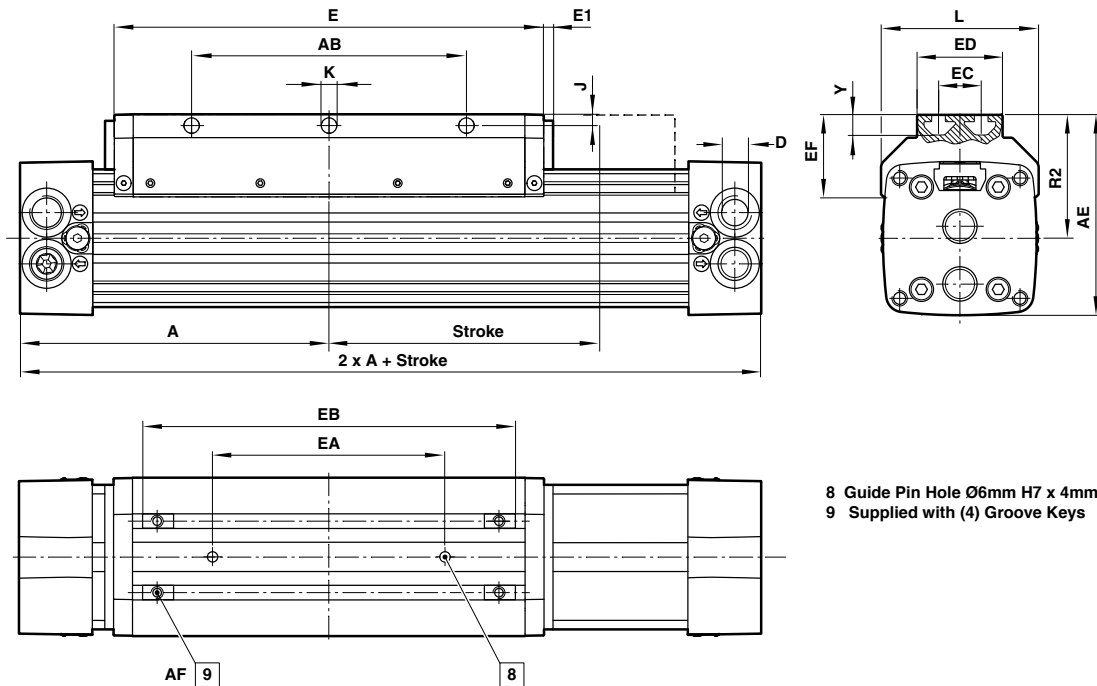
Model	Ø	A	AC	AE	AG	B	C	CA	D	E	E1	F	G	J	Ø K ⁰⁷
C/146025/...	25	3.94	1.42	2.20	0.78	0.91	0.33	—	1/8 NPT	5.12	—	3.54	1.77	0.19	0.20
C/146032/...	32	4.72	1.81	2.99	0.98	1.12	0.41	0.71	1/4 NPT	6.30	0.14	4.72	2.36	0.28	0.28
C/146040/...	40	5.91	2.07	3.54	0.98	1.12	0.45	0.71	1/4 NPT	8.46	—	6.30	3.15	0.28	0.28
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

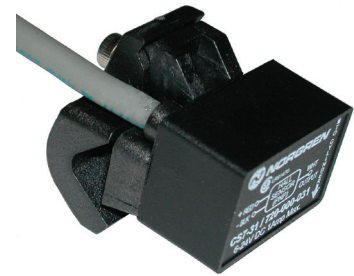
- In stock
- ◆ Ships within one week

Magnetically operated, non-contact sensing system.

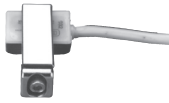
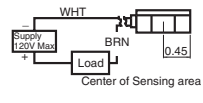
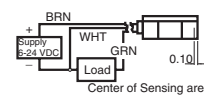
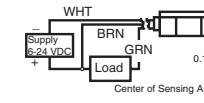
One or more switches may be mounted to provide an indication of piston position or to control or initiate any sequence function.


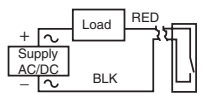
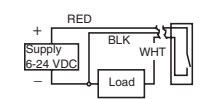
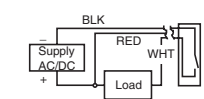
Adjustable mounting brackets allow for switches to be securely positioned anywhere along the range of piston travel.

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) ●
			
Bore Sizes	3/4" thru 2-1/2"	3/4" thru 2-1/2"	3/4" thru 2-1/2"
Switch Type	Reed Switch, *MOV & Light	Solid State & Light, Sourcing PNP	Solid State & Light, Sinking NPN
Function	SPST Normally Open	Normally Open	Normally Open
Switching Voltage	5-120 VDC/VAC/ 50/60 Hz	6-24 VDC	6-24 VDC
Switching Current	.5 Amp Max/.005 Amp Min	.5 Amp Max	.5 Amp Max
Switching Power	10 VA	12 Watts Max	12 Watts Max
Max Voltage Drop	3.5 Volts	.5 Volts	.5 Volts
Magnetic Sensitivity	85 Gauss	85 Gauss	85 Gauss
Enclosure Classification	NEMA 6 & CSA Approved	NEMA 6 & CSA Approved	NEMA 6 & CSA Approved
Temperature Range	-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) ●
			
Bore Sizes	2" thru 6"	2" thru 6"	2" thru 6"
Switch Type	Reed Switch, *MOV & Light	Solid State & Light, Sourcing PNP	Solid State & Light, Sinking NPN
Function	Normally Open	Normally Open	Normally Open
Switching Voltage	5-240 VDC/VAC/ 50/60 Hz	6-24 VDC	6-24 VDC
Switching Current	1 Amp Max	1 Amp Max	1 Amp Max
Switching Power	30 Watts Max	24 Watts Max	24 Watts Max
Max Voltage Drop	3 Volts	.5 Volts	.5 Volts
Magnetic Sensitivity	85 Gauss	85 Gauss	85 Gauss
Enclosure Classification	NEMA 6 & CSA Approved	NEMA 6 & CSA Approved	NEMA 6 & CSA Approved
Temperature Range	-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†
 M/50/LSU/**V ●	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)	 QM/27/2/1 ●
M/50/EAN/**V ●	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)	QM/27/2/1 ●
M/50/EAP/**V ●	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)	QM/27/2/1 ●

** 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

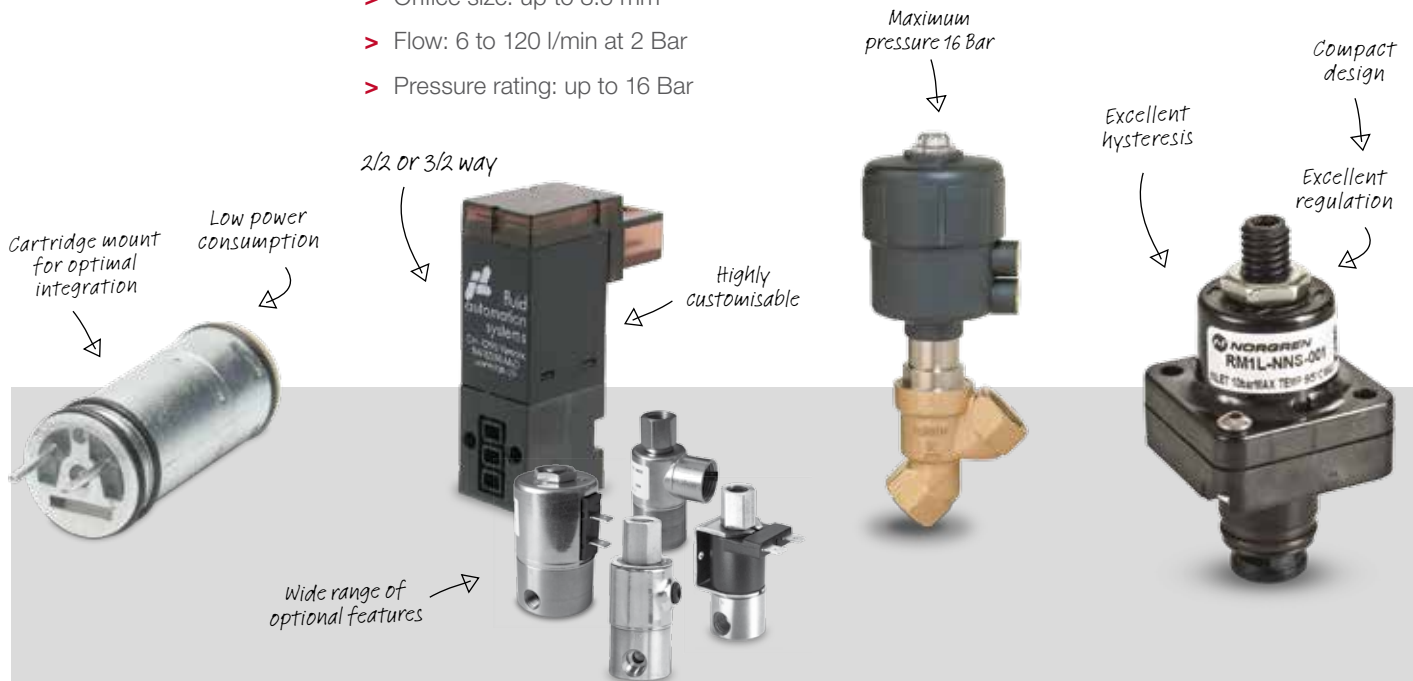
- > 2/2 or 3/2, NC or NO valve
- > Orifice size: up to 3.6 mm
- > Flow: 6 to 120 l/min at 2 Bar
- > Pressure rating: up to 16 Bar

IMI Buschjost angle seat valves

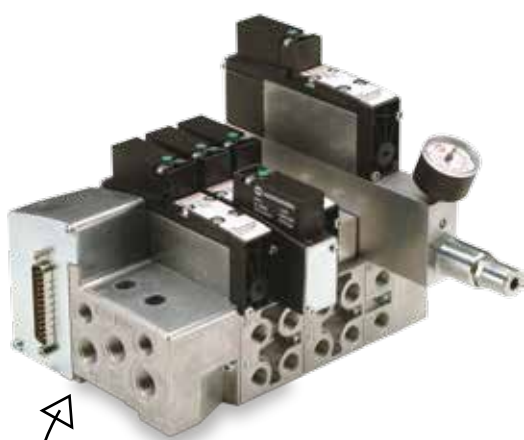
- > 84500 and 84520 series
- > Pressure actuated valves featuring high flow rate and flexibility
- > Suitable for neutral or aggressive gases and liquids

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

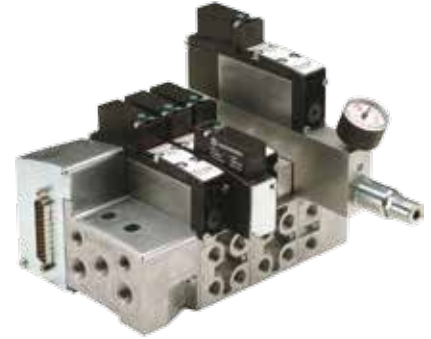
Dual spool technology:

- 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*:

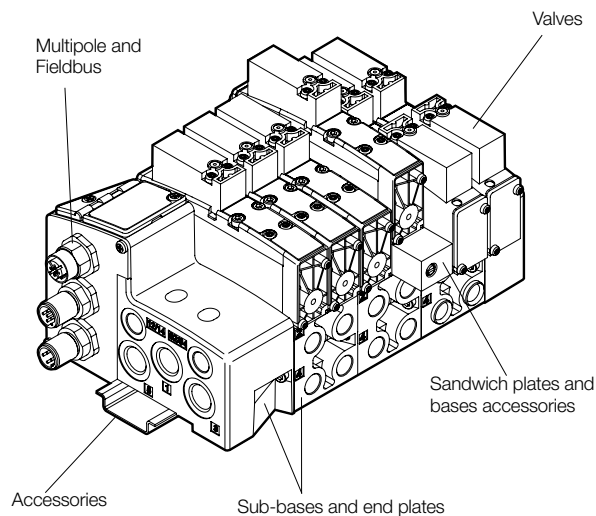
5°F to 122°F (–15°C to +50°C)

* 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.



● In stock

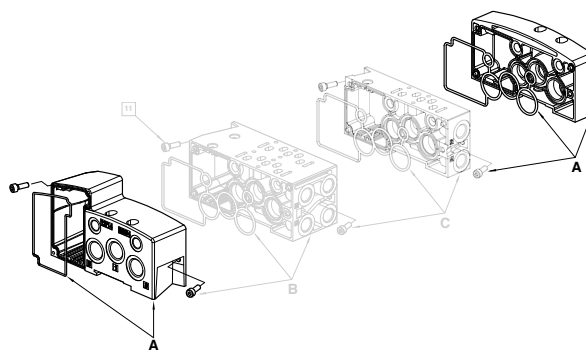
◆ Ships within one week

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

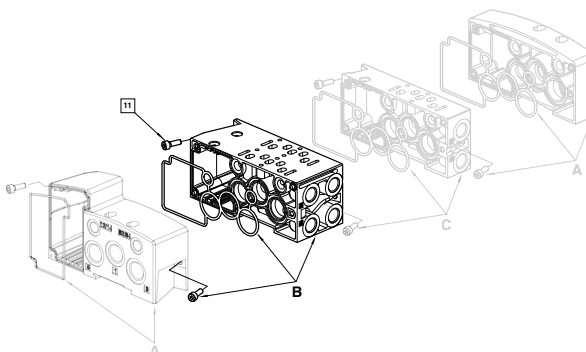


STEP 2

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

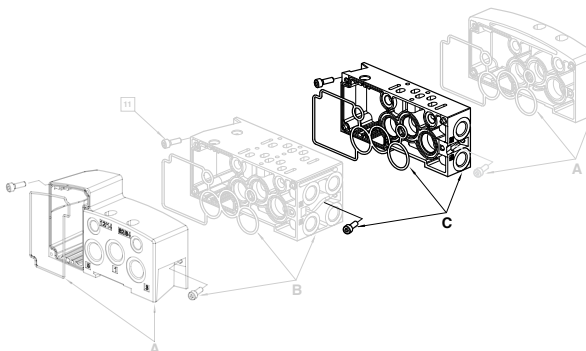


STEP 3

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

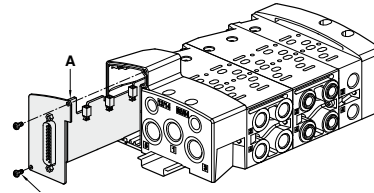
Model	Ports
	2 & 4
VS1872003-PFF0 ●	NPTF 1/8
VS1872003-1FF0 ●	PIF 1/4



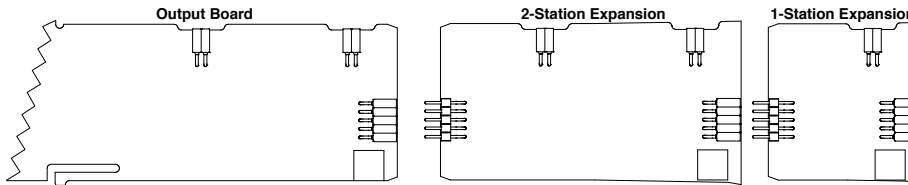
- In stock
- ◆ Ships within one week

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 ●		

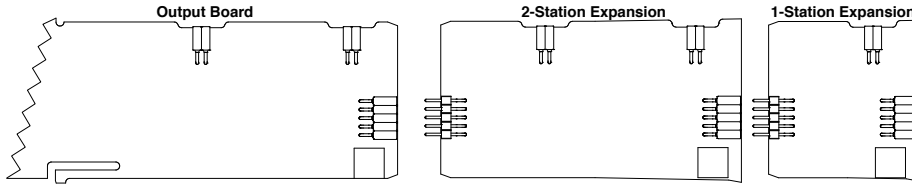
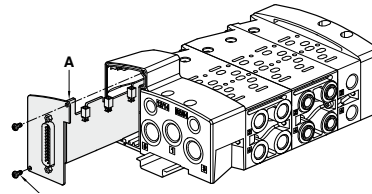
15-pin D-Sub Multipole Connection (24 VDC)						
Number of Stations	Qty	Output Board	Qty	2-Station Expansion	Qty	1-Station Expansion
2-station	1	VS1872218-KF00 ●				
3-station	1	VS1872218-KF00 ●			1	VS1872255-KF00 ●
4-station	1	VS1872205-KF00 ●				
5-station	1	VS1872205-KF00 ●			1	VS1872255-KF00 ●
6-station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

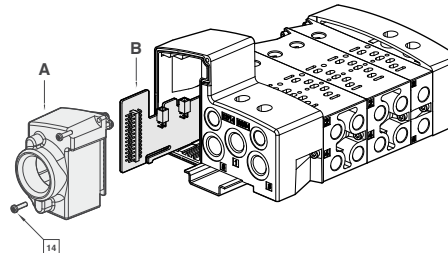
Determine the electrical control of your manifold by using the tables below to select your multipole connection.



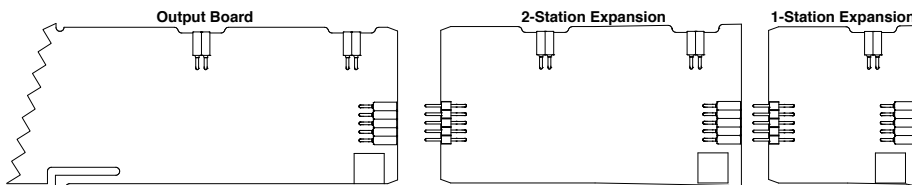
44-pin D-Sub Multipole Connection (24 VDC)						
Number of Stations	Qty	Output Board	Qty	2-Station Expansion	Qty	1-Station Expansion
10-station	1	VS1872206-KF00 ●				
11-station	1	VS1872206-KF00 ●			1	VS1872255-KF00 ●
12-station	1	VS1872204-KF00 ●				
13-station	1	VS1872204-KF00 ●			1	VS1872255-KF00 ●
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 ¹	Soft Seal	0.61	36 to 145	Non-Locking	24 VDC	VS2672930-KG00 ●
VS18SA11DF213A ¹	Soft Seal	0.61	36 to 145	Locking	24 VDC	VS2672932-KG00 ●
VS18SB11DF313A ²	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 ¹	Soft Seal	0.61	36 to 145	Non-Locking	115 VAC	VS2672931-KG00 ●
VS18SA11DF218A ¹	Soft Seal	0.61	36 to 145	Locking	115 VAC	VS2672933-KG00 ●
VS18SB11DF318A ²	Soft Seal	0.61	36 to 145	Non-Locking	115 VAC	VS2672931-KG00 ●
VS18SC11DF318A ^{1,2}	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 ³ ●	Soft Seal	0.66	29 to 145	Non-Locking	24 VDC	VS2672930-KG00 ●
VS18S711DF313A ⁴ ●	Soft Seal	0.66	29 to 145	Non-Locking	24 VDC	VS2672930-KG00 ●
VS18S611DF318A ³ ●	Soft Seal	0.66	29 to 145	Non-Locking	115 VAC	VS2672931-KG00 ●
VS18S711DF318A ⁴ ●	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

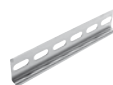





Part Number	Description
94.00907 ●	VS18 Valve to VS18 Manifold Gasket
94.01015 ●	VS18 Manifold to VS18 Manifold Gasket
94.00816 ●	VS18 Electrical Gasket

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 ¹
					
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-KF20 (Port 2) ● VS1872400-KF30 (Port 4) ●	VS1872400-KF40 (Ports 2+4) ●	VS1872401-KF00 (Ports 3+5) ●	VS1872404-KF00 ●	V70534-500 ●

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

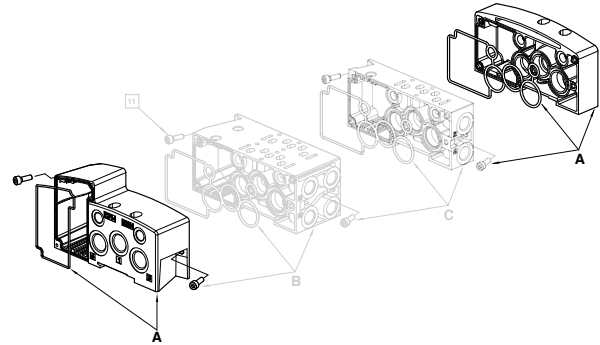
- In stock
- ◆ Ships within one week

STEP 1

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

A – End plate kit

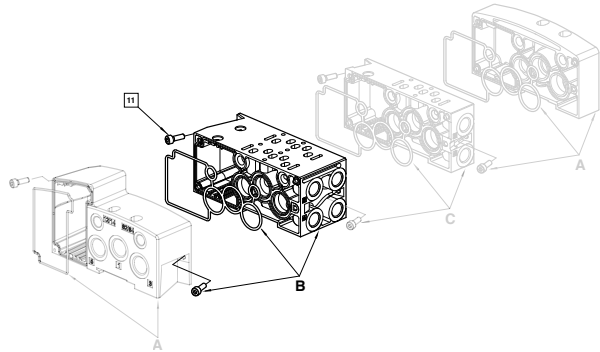
Model	Description	Ports 2 & 4 NPTF 3/8	Ports 12/14 & 82/84 NPTF 1/8
VS2672500-SGCO	● End plate kit for Multipole		

**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

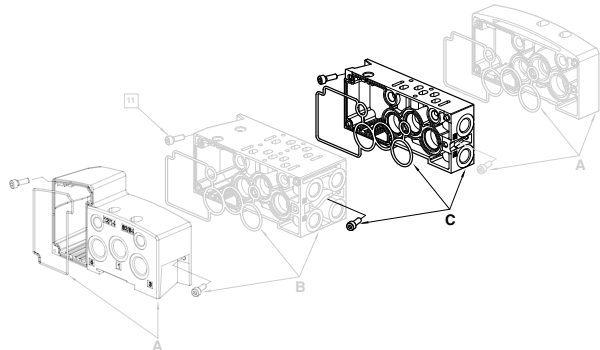
Model	Ports 2 & 4 NPTF 1/4 PIF 3/8
VS2672502-RGFO	●
VS2672502-2GFO	●

**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

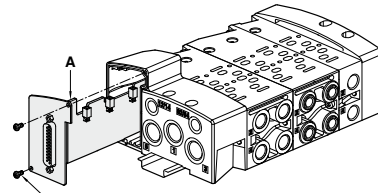
Model	Ports 2 & 4 NPTF 1/4 PIF 3/8
VS2672503-RGFO	●
VS2672503-2GFO	●



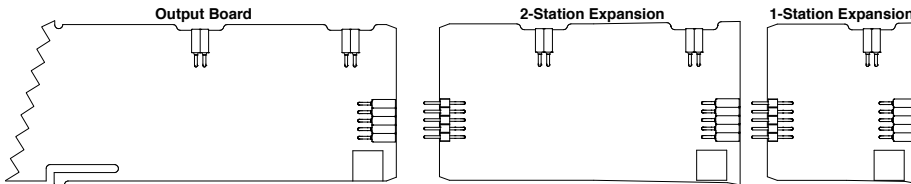
- In stock
- ◆ Ships within one week

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

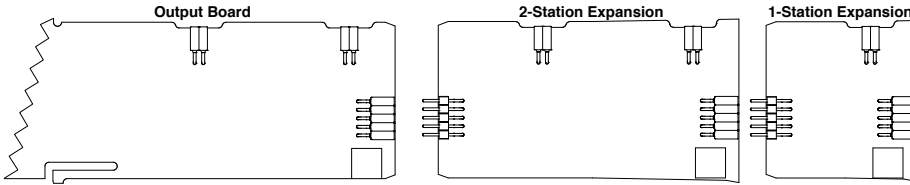
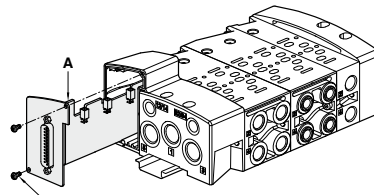


9-pin D-Sub Multipole Connection (24 VDC)						
Number of Stations	Qty	Output Board	Qty	2-Station Expansion	Qty	1-Station Expansion
2-station	1	VS2672717-KG00 ●				
3-station	1	VS2672717-KG00 ●			1	VS2672755-KG00 ●
4-station	1	VS2672717-KG00 ●	1	VS2672713-KG00 ●		

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 ●		

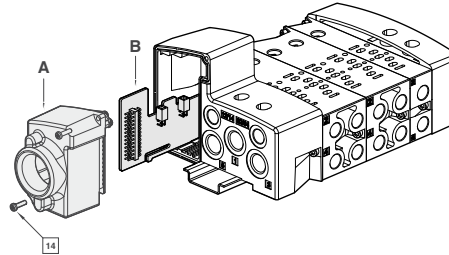
- In stock
- ◆ Ships within one week



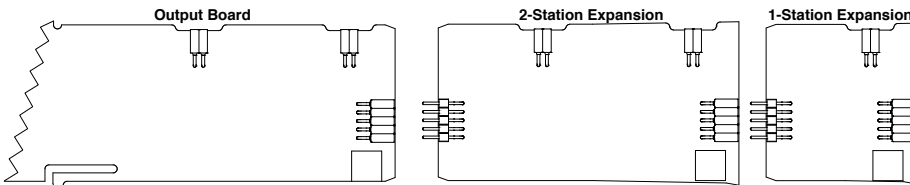
44-pin D-Sub Multipole Connection (24 VDC)						
Number of Stations	Qty	Output Board	Qty	2-Station Expansion	Qty	1-Station Expansion
10-station	1	VS2672706-KG00 ●				
11-station	1	VS2672706-KG00 ●			1	VS2672755-KG00 ●
12-station	1	VS2672704-KG00 ●				
13-station	1	VS2672704-KG00 ●			1	VS2672755-KG00 ●
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 ¹ ●	Soft Seal	1.27	36 to 145	Non-Locking	24 VDC	VS2672930-KG00 ●
VS26SA11DF213A ¹ ●	Soft Seal	1.27	36 to 145	Locking	24 VDC	VS2672932-KG00 ●
VS26SB11DF313A ² ●	Soft Seal	1.27	36 to 145	Non-Locking	24 VDC	VS2672930-KG00 ●
VS26SC11DF313A ^{1,2} ●	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 ¹ ●	Soft Seal	1.27	36 to 145	Non-Locking	115 VAC	VS2672931-KG00 ●
VS26SA11DF218A ¹ ●	Soft Seal	1.27	36 to 145	Locking	115 VAC	VS2672933-KG00 ●
VS26SB11DF318A ² ●	Soft Seal	1.27	36 to 145	Non-Locking	115 VAC	VS2672931-KG00 ●
VS26SC11DF318A ^{1,2} ●	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 ³ ●	Soft Seal	1.37	36 to 145	Non-Locking	24 VDC	VS2672930-KG00 ●
VS26S711DF313A ⁴ ●	Soft Seal	1.37	36 to 145	Non-Locking	24 VDC	VS2672930-KG00 ●
VS26S611DF318A ³ ●	Soft Seal	1.37	36 to 145	Non-Locking	115 VAC	VS2672931-KG00 ●
VS26S711DF318A ⁴ ●	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 ¹
					
V10009-C00 (35 x 7.5 mm) ● V10592-C01 (35 x 15 mm) ●	V70531-KA0 ●	V70522-K00 (Ports 1, 3, 5) V70523-K00 (Ports 12/14)	VS2673606-KG00 ●	VS2672960-KG00 ●	VS2672914-KG00 ●

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-KG20 (port 2) ● VS2672900-KG30 (port 4) ●	VS2672900-KG40 (port 2+4) ●	VS2672901-KG00 (ports 3+5) ●	VS2672904-KG00 ●	V70534-500 ●

- 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*:

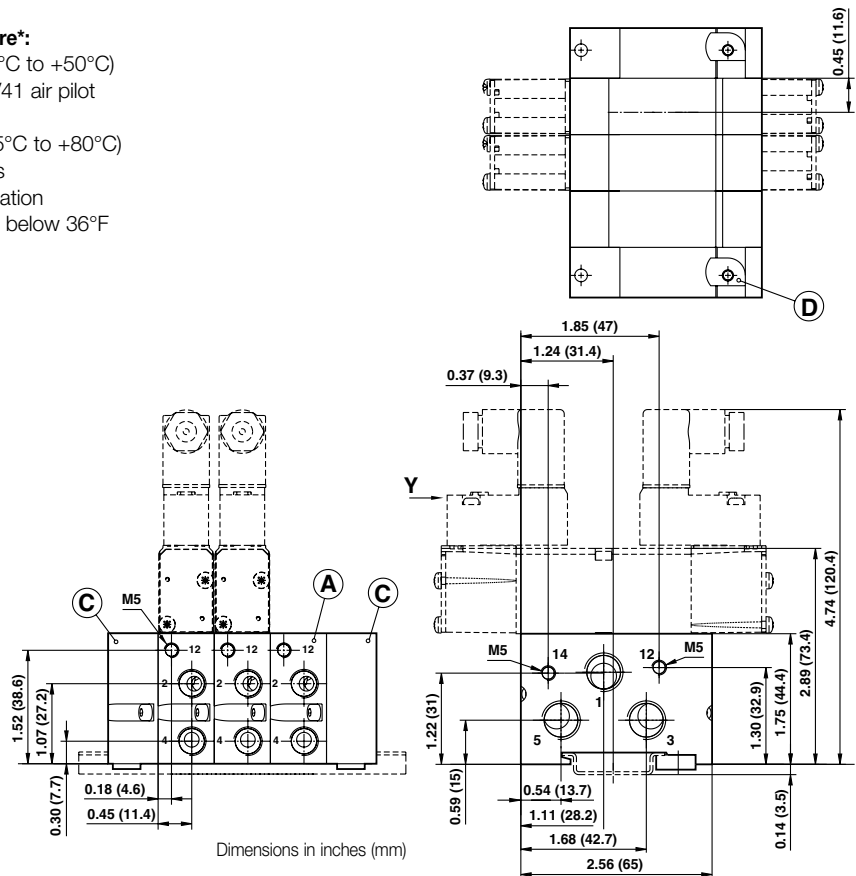
5°F to +122°F (-15°C to +50°C)

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-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
 V415A11D-C313A ●	Soft Seal	18mm	0.62	36-145	24 VDC			Not included
V415A11D-C318A ●	Soft Seal	18mm	0.62	36-145	115V 50/60Hz	V415A11D-A1000 ●	VZC7L2C1-C318A ●	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
 V415517D-C313B ●	Soft Seal	18 mm	0.66	29-145	24 VDC			V10027-D00 ●
V415517D-C318B ●	Soft Seal	18 mm	0.66	29-145	110/120 VAC	V415517D-A1000 ●	VZC7L2C1-C318A ●	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
 V415511D-C313B ●	Soft Seal	18 mm	0.66	29-145	24 VDC			V10027-D00 ●
V415511D-C318B ●	Soft Seal	18 mm	0.66	29-145	110/120 VAC	V415511D-A1000 ●	VZC7L2C1-C318A ●	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
 V415611D-C313B ●	Soft Seal	18mm	0.69	29-145	24 VDC			V10027-D00 ●
V415611D-C318B ●	Soft Seal	18mm	0.69	29-145	115V 50/60Hz	V415611D-A1000 ●	VZC7L2C1-C318A ●	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
 V415533A-X0020* ●	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
 V415537A-X0090* ●	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
 V405516D-C313B ●	Glandless	18 mm	0.58	29-145	24 VDC	 ●	 ●	 ●
V405516D-C318B ●	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
 V405511D-C313B ●	Glandless	18 mm	0.58	29-145	24 VDC	 ●	 ●	 ●
V405511D-C318B ●	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
 V405533A-X0020 ●	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
 V405537A-X0090 ●	Glandless	18 mm	0.58	26" Hg - 232	NA	NA	NA	NA

* Requires modular sub-base V70426-P5F





● In stock

◆ Ships within one week







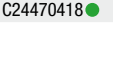















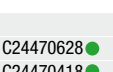





Bases and Accessories

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

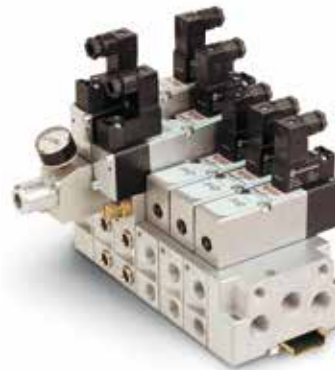
V44: Glandless spool valve, solenoid pilot or air pilot actuated
V45: Softseal spool valve, solenoid pilot or air pilot actuated

Operating pressure:

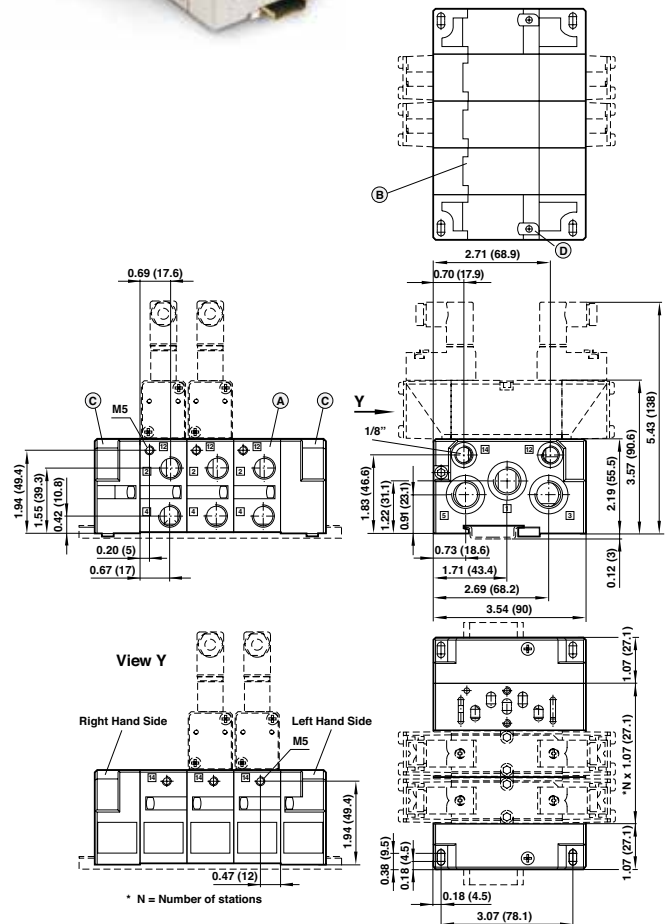
Maximum pressure
145 psig (10 bar) V45 models and V44 solenoid pilot actuated valves with internal pilot supply
232 psig (16 bar) V44 solenoid pilot actuated valves with external pilot supply and V44 air pilot actuated valves

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 ●	

Accessories

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	
	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*:

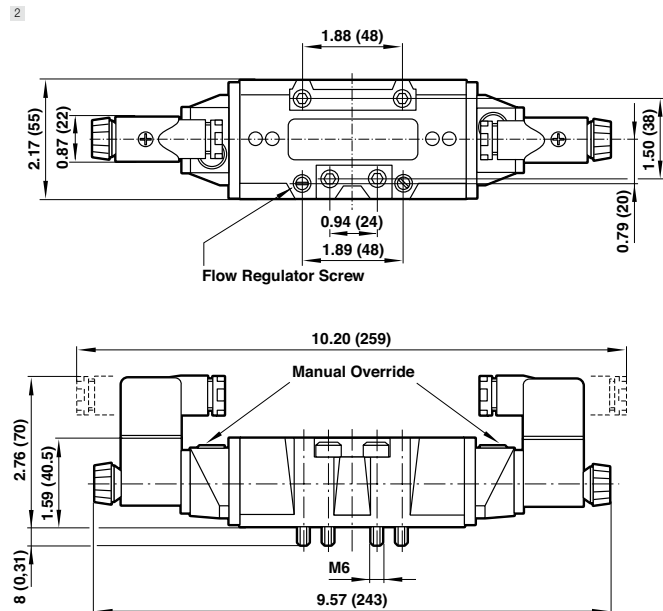
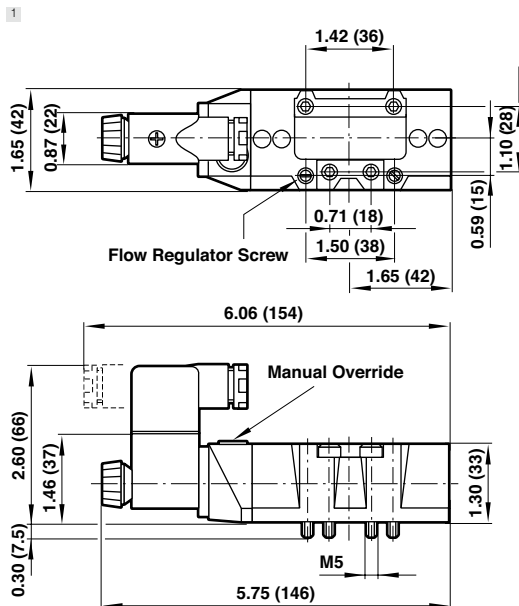
5°F to 122°F (-15°C to 50°C)

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
									
SXE9573-A80-00-13JB 	ISO 1	1.2	Yes	14.5 - 145	24 VDC	SXE9573-A80-00K 	54469-02 	54934-01 	1
SXE9573-A70-00-13JB 	ISO 1	1.2	No	14.5 - 145	24 VDC	SXE9573-A70-00K 	54469-02 	54934-01 	1
SXE9573-A80-00-18JB 	ISO 1	1.2	Yes	14.5 - 145	115V 50/60 Hz	SXE9573-A80-00K 	54469-03 	54934-01 	1
SXE9573-A70-00-18JB 	ISO 1	1.2	No	14.5 - 145	115V 50/60 Hz	SXE9573-A70-00K 	54469-03 	54934-01 	1
									
SXE9574-A80-00-13JB 	ISO 2	2.4	Yes	14.5 - 145	24 VDC	SXE9574-A80-00K 	54469-02 	54934-01 	1
SXE9574-A80-00-18JB 	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
									
SXE0573-A60-00-13JB 	ISO 1	1.2	Yes	29 - 145	24 VDC	SXE0573-A60-00K 	54469-02 	54934-01 	1
SXE0573-A50-00-13JB 	ISO 1	1.2	No	29 - 145	24 VDC	SXE0573-A50-00K 	54469-02 	54934-01 	1
SXE0573-A60-00-18JB 	ISO 1	1.2	Yes	29 - 145	115V 50/60 Hz	SXE0573-A60-00K 	54469-03 	54934-01 	1
SXE0573-A50-00-18JB 	ISO 1	1.2	No	29 - 145	115V 50/60 Hz	SXE0573-A50-00K 	54469-03 	54934-01 	1
									
SXE0574-A60-00-13JB 	ISO 2	2.4	Yes	29 - 145	24 VDC	SXE0574-A60-00K 	54469-02 	54934-01 	1
SXE0574-A60-00-18JB 	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
									
SXE9673-A60-00-13JB ³ 	ISO 1	1.2	Yes	29 - 145	24 VDC	SXE9673-A60-00K 	54469-02 	54934-01 	2
SXE9673-A60-00-18JB ³ 	ISO 1	1.2	Yes	29 - 145	115V 50/60 Hz	SXE9673-A60-00K 	54469-03 	54934-01 	2
									
SXE9674-A60-00-13JB ³ 	ISO 2	2.4	Yes	29 - 145	24 VDC	SXE9674-A60-00K 	54469-02 	54934-01 	2
SXE9674-A60-00-18JB 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
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

- In stock
- ◆ Ships within one week

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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





¹ 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
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/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 ³ ●	1/8	0.75	29 to 145	non-locking	14	V60P611A-A3000A ●	54469-03 ●	54934-01 ●
V61R611A-A318JB ³ ●	1/4	1.30	29 to 145	non-locking	14	V61R611A-A3000A ●	54469-03 ●	54934-01 ●
V62S611A-A318JB ³ ●	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 ³ ●	1/8	0.75	29 to 145	non-locking	14	V60P611A-A3000A ●	54469-03 ●
V61R611A-A318JA ³ ●	1/4	1.30	29 to 145	non-locking	14	V61R611A-A3000A ●	54469-03 ●
V62S611A-A318JA ³ ●	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 ³ ●	1/8	0.75	29 to 145	non-locking	14	V60P611A-A3000A ●	54469-02 ●	54934-01 ●
V61R611A-A313JB ³ ●	1/4	1.30	29 to 145	non-locking	14	V61R611A-A3000A ●	54469-02 ●	54934-01 ●
V62S611A-A313JB ³ ●	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 ³ ●	1/8	0.75	29 to 145	non-locking	14	V60P611A-A3000A ●	54469-02 ●
V61R611A-A313JA ³ ●	1/4	1.30	29 to 145	non-locking	14	V61R611A-A3000A ●	54469-02 ●
V62S611A-A313JA ³ ●	3/8	2.60	29 to 145	non-locking	14	V62S611A-A3000A ●	54469-02 ●

3 All ports blocked

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 - 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

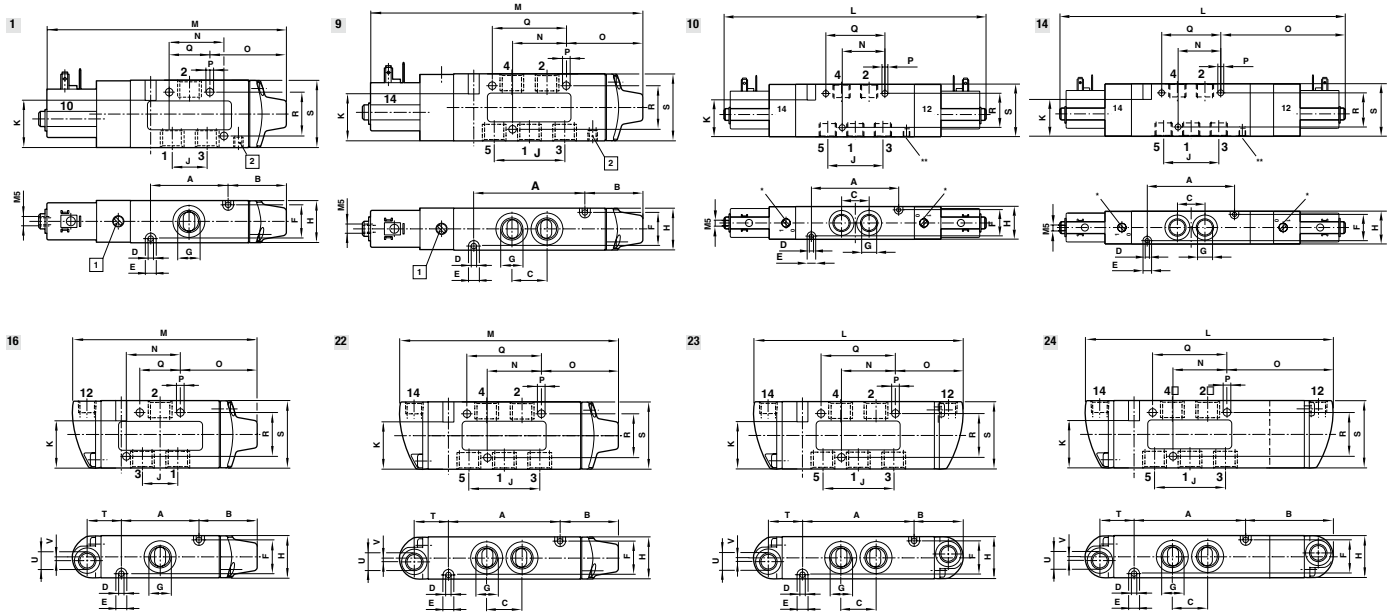
Model - 5/3 Valves

Air actuated/spring centered

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

3 All ports blocked

- In stock
- ◆ Ships within one week

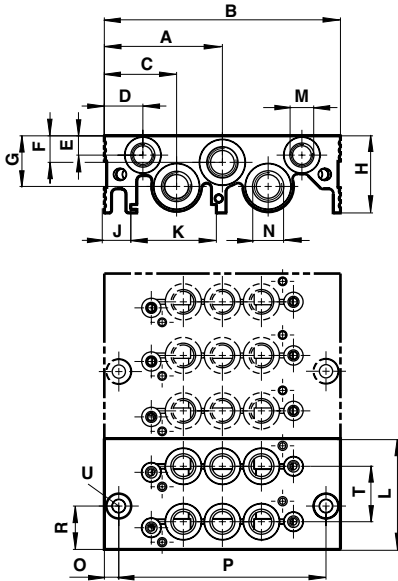


Series	Drawing	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	T	U
V60	1	1.38	0.67	-	0.13	0.26	0.67	1/8	0.87	0.64	1.10	-	4.49	0.98	0.98	0.18	0.71	1.02	1.38	-	-
V61	1	1.81	0.79	-	0.13	0.26	0.79	1/4	0.98	0.83	1.10	-	5.22	1.26	1.22	0.18	0.94	1.02	1.57	-	-
V62	1	2.13	0.83	-	0.18	0.31	1.10	3/8	1.34	0.96	1.73	-	5.71	0.47	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

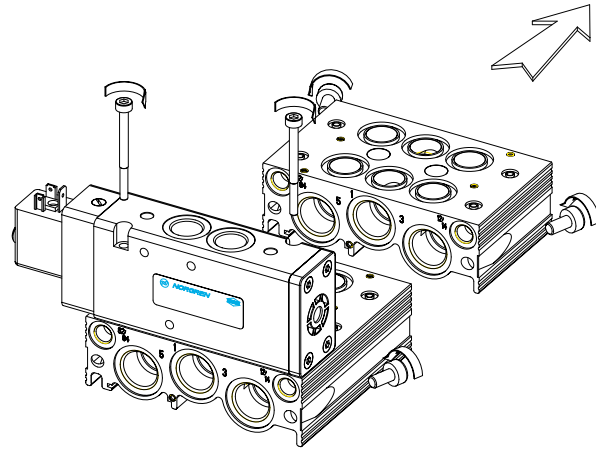
Dimensions in inches (mm)

- In stock
- ◆ Ships within one week

Drawing dimensions
Manifold plate 2 stations + 3 stations



Extension possibilities with manifold plates



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 ³ ●	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 ¹ ●	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 ³ ●	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 ³ ●	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 ¹ ●	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 ³ ●	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 ³ ●	Sol/Sol	0.75	44 to 116	24 VDC	V51R611AA2000 ●	54469-02 ●	54934-01 ●	10
V51R611A-A218JB ³ ●	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 ³ ●	Sol/Sol	1.19	44 to 116	24 VDC	V52S611A-A2000 ●	54469-02 ●	54934-01 ●	11
V52S611A-A218JB ³ ●	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

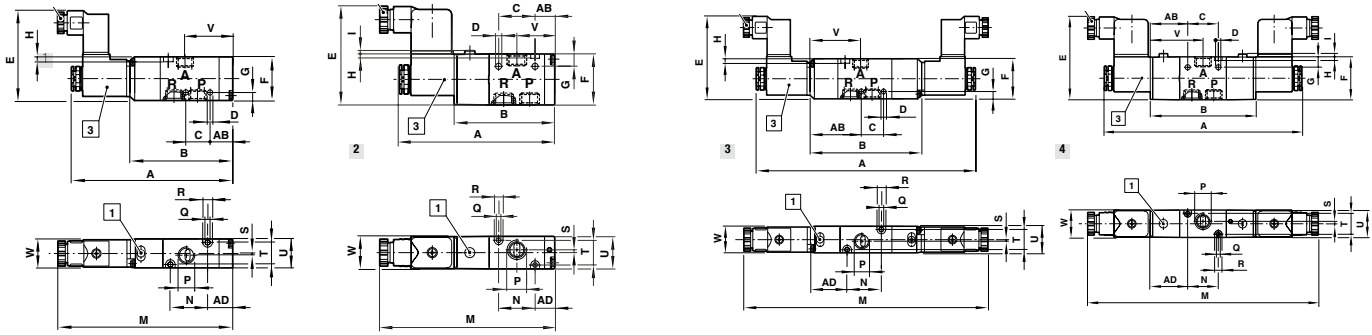
V53 – 1/2" NPT, Internal pilot solenoid valves with locking overrides

Model No.	Actuation	Flow Cv	Operating pressure (psi)	Voltage	Body	Coil	Connector	Drawing No.
								
V53T611A-A213JB ³ 	Sol/Sol	1.91	44 to 116	24 VDC	V53T611A-A2000 	54469-02 	54934-01 	11
V53T611A-A218JB ³ 	Sol/Sol	1.91	44 to 116	110/120 VAC	V53T611A-A2000 	54469-03 	54934-01 	11

1 Normally closed
3 All ports blocked

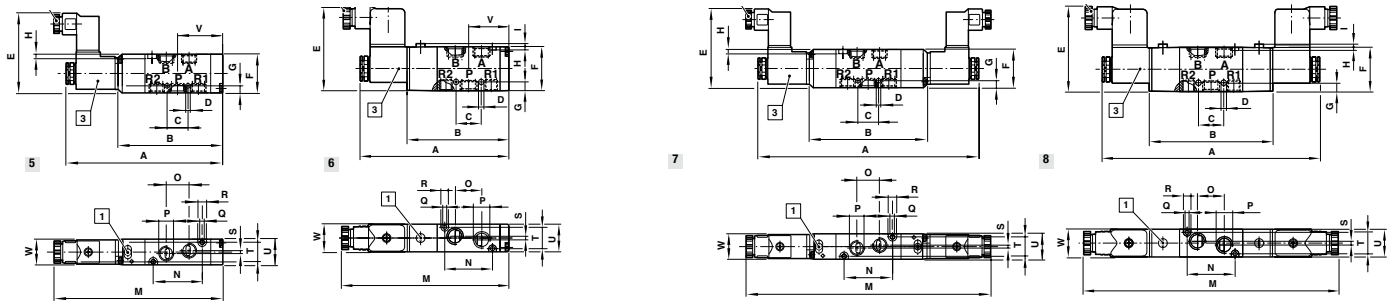
-  In stock
-  Ships within one week

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	-	

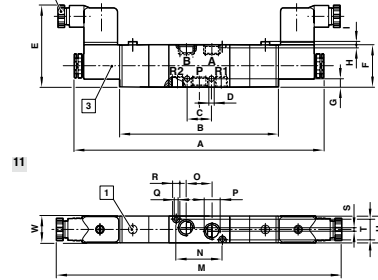
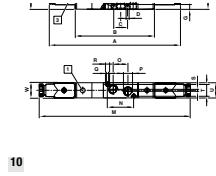
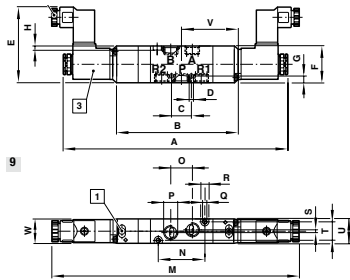


Series	Drawing	A	B	C	D	E	F	G	H	I	J	K	L
V50	5	4.25	2.99	0.57	0.13	2.17	1.06	0.20	0.12	-	1/8"	1/8"	1.14
V51	6	4.55	3.19	0.79	0.17	2.64	1.38	0.28	0.12	0.12	1/4"	1/8"	1.42
V52	6	5.59	4.25	1.02	0.22	2.83	1.83	0.18	0.16	0.12	3/8"	3/8"	2.05
V53	6	6.18	4.72	1.14	0.18	2.87	1.83	0.28	0.16	0.12	1/2"	1/2"	2.28
Series	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	

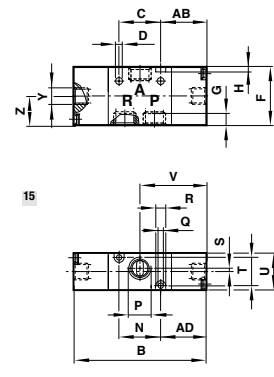
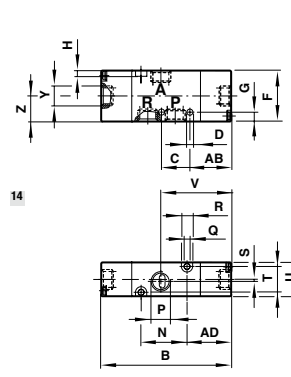
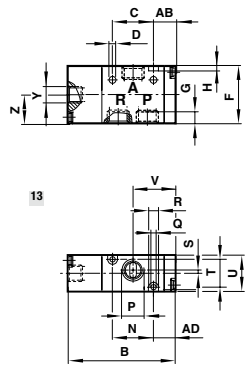
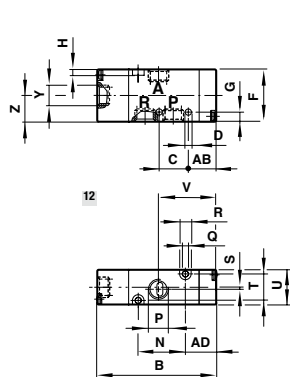
Series	Drawing	A	B	C	D	E	F	G	H	I	J	K	L
V50	7	6.06	3.43	0.57	0.13	2.17	1.06	0.20	0.12	-	1/8"	1/8"	1.14
V51	8	6.57	3.82	0.79	0.17	2.64	1.38	0.28	0.12	0.12	1/4"	1/8"	1.42
V52	8	7.64	4.96	1.02	0.22	2.83	1.83	0.18	0.16	0.12	3/8"	3/8"	2.05
V53	8	8.35	5.43	1.14	0.18	2.87	1.83	0.28	0.16	0.12	1/2"	1/2"	2.28
Series	Drawing	M	N	O	P	Q	R	S	T	U	V	W	
V50	7	6.89	1.34	0.63	1/8"	0.13	0.24	0.08	0.51	0.71	1.30	0.63	
V51	8	7.80	1.50	0.83	1/4"	0.13	0.24	0.12	0.67	0.89	1.26	0.87	
V52	8	8.74	0.51	1.18	3/8"	0.18	0.31	-	0.91	1.18	1.77	0.87	
V53	8	9.37	2.83	1.10	1/2"	0.17	0.31	0.18	0.91	1.18	2.01	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	

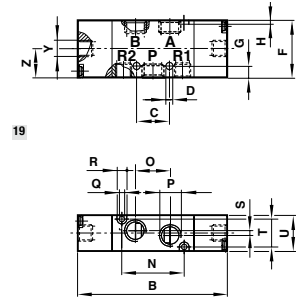
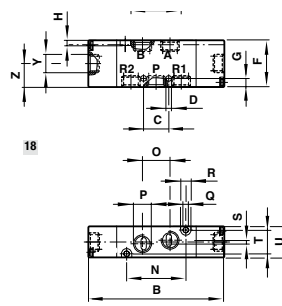
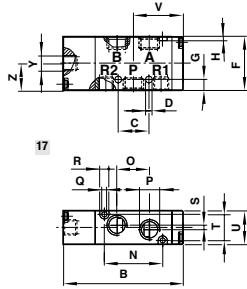
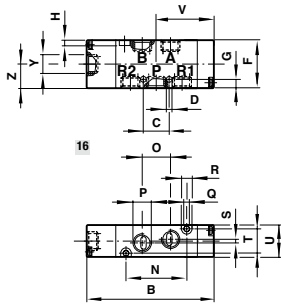


Series	Drawing	AB	AC	AD	B	C	D	F	G	H	J	L
V50	12	0.53	0.85	0.59	2.44	0.59	0.13	1.06	0.20	0.12	1/8"	0.57
V51	13	0.53	0.67	0.53	2.58	0.98	0.17	1.38	0.33	0.12	1/4"	0.71
V52	13	0.51	1.02	0.59	3.43	1.02	0.18	1.83	1.56	0.16	3/8"	1.02
V53	13	0.49	1.06	0.59	0.16	1.14	0.18	1.83	1.56	0.16	1/2"	1.14
Series	Drawing	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

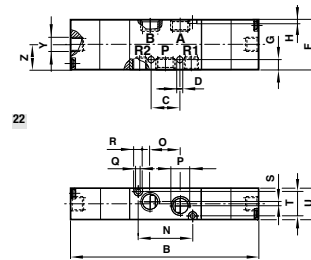
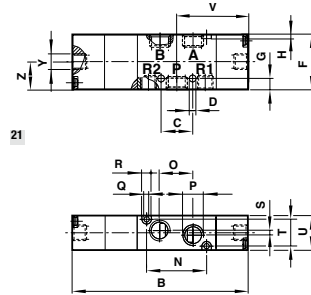
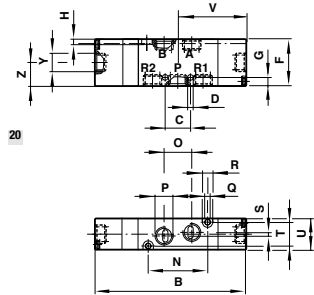
- In stock
- ◆ Ships within one week

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:





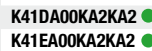


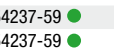
-20° to 120°F (-29° to 50°C)
Consult Technical Service for use below 35°F (2°C).

Materials:








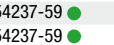
Body: Aluminum
Spool: Anodized aluminum
Solenoid Operator Base: plastic
Plunger and spring: Stainless steel
Elastomers: Nitrile and special nitrile-based low-friction elastomers.

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
						
K81DA00KACKAC ³ ●	1.67	1/4	45 - 150	K81DA00 ●	KAC ●	54237-56 ●
K81EA00KACKAC ³ ●	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

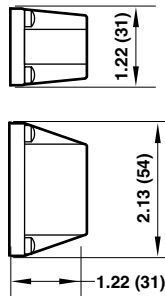
Connectors

Part number	Code
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 sup pression, 24 VAC/ VDC
54934-35 ●	6 = 6 ft molded cable w/indicator light, 120 VAC

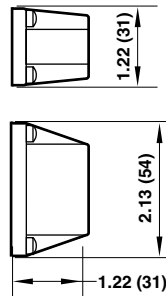
- In stock
- ◆ Ships within one week

Dimensions in inches (mm)

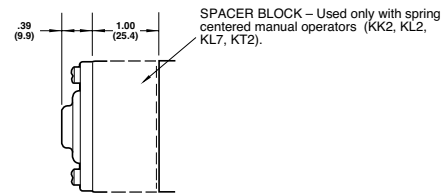
KS1 Spring Return & End Cap



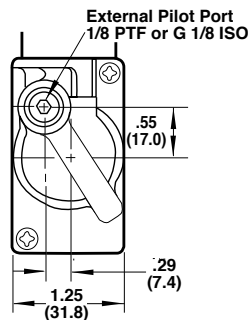
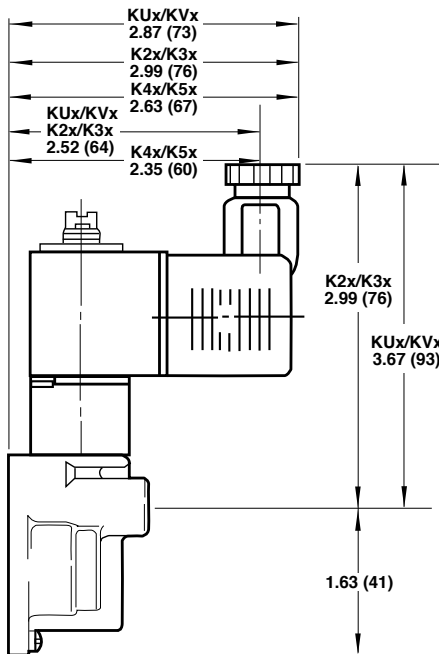
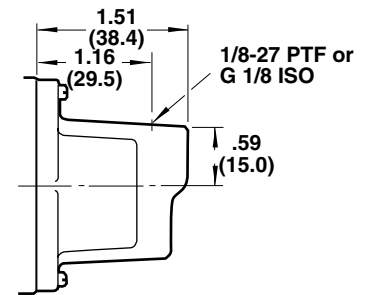
KS6 Spring Return



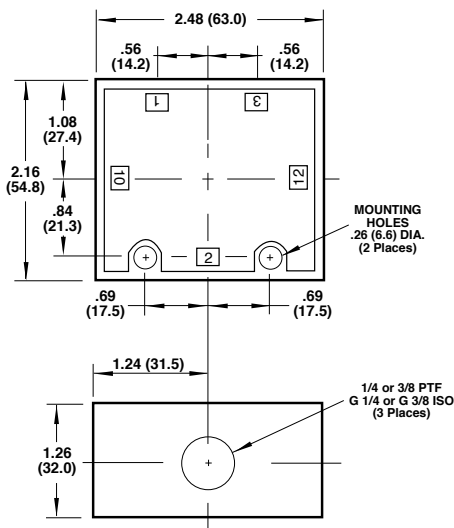
KC0 End Cap



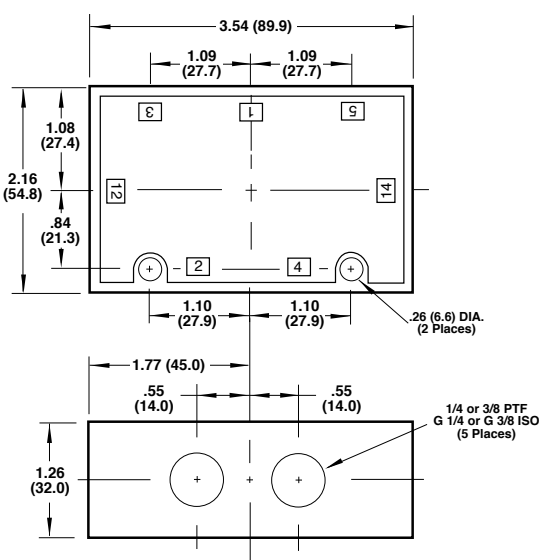
KA2



**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 ³	Air/air	1/2	5.0	20 - 150	54677-61 ●
MN03CHA23F000 ●	5/3 ³	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 ³	Solenoid / Solenoid	Non-locking	1/2	5.0	20 - 150	54469-03 ●	54934-01 ●	54677-61 ●
MN03CHA25FJJA ●	5/3 ³	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 ² (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 ² (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 ² (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 ² (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 ² (psi)	Body and spool	Operator
							
A1014C-CY ¹ ●	1/2	1/2	5.3	30 - 150	30 - 150	A1014C ●	-CY ●
A1015C-CY ¹ ●	1/2	3/4	6.5	30 - 150	30 - 150	A1015C ●	-CY ●
A1026C-CC ¹ ●	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 ² (psi)	Body and spool	Operator
							
D1023C-CY ¹ ●	1/2	3/8	1.7 to 1.8	30 - 150	30 - 150	D1023C ●	-CY ●
D1024C-CY ¹ ●	1/2	1/2	4.6 to 5.8	30 - 150	30 - 150	D1024C ●	-CY ●
D1025C-CC ¹ ●	1/2	3/4	5.4 to 6.2	30 - 150	30 - 150	D1025C ●	-CC ●
D1036C-CC ¹ ●	1	1	13.2 to 14.6	30 - 150	30 - 150	D1036C ●	-CC ●
C1036C-CC ¹ ●	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 ² (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

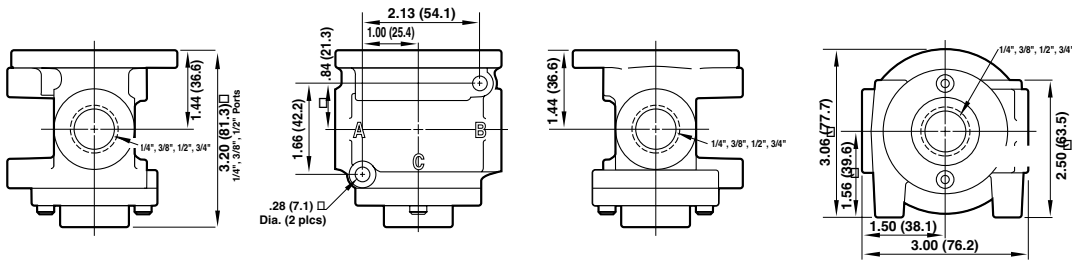


-CY
22 mm
Industrial Standard

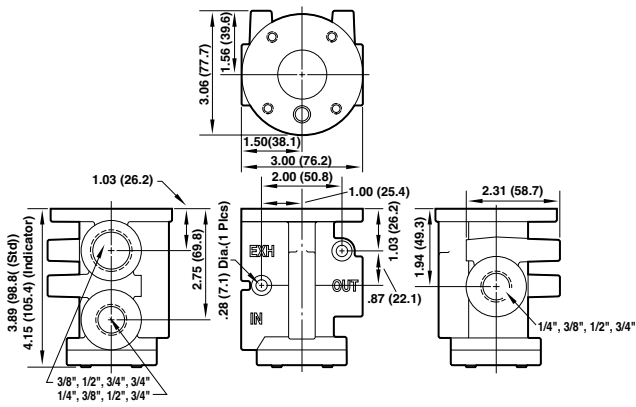
- In stock
- ◆ Ships within one week

Dimensions in inches (mm)

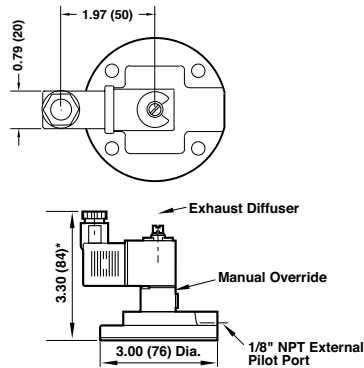
2-port/2-position 1/2" body (A101*C)



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

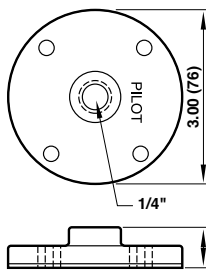


-CY Valve body operator with cable grip

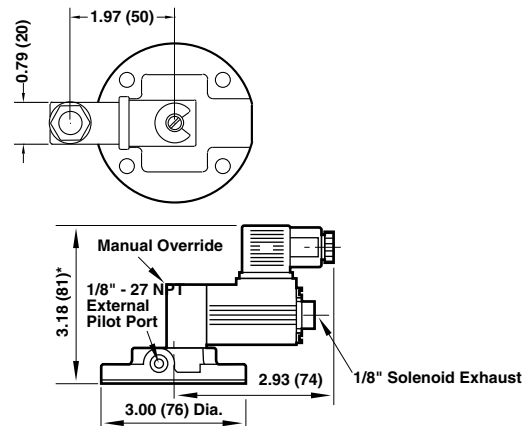


*Gasket 0.03 (0.8) thick included in dimensions

-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
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

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 ³ ●	Lever/spring/lever	1/8	0.34	J, 30	1/8	1/4	 C24250418 ●	 C24470418 ●	 MS001A ●
 X3363822 ³ ●	Lever/spring/lever	1/4	0.98	J, 31	1/4	3/8	 C24250628 ●	 C24470628 ●	 MS002A ●

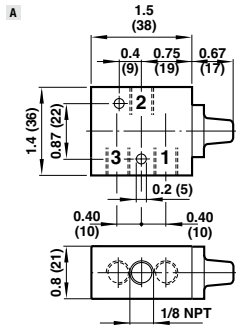
3 All ports blocked

- In stock
- ◆ Ships within one week

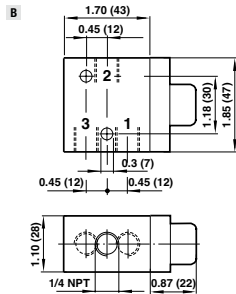
Dimensions in inches (mm)

Valve bodies

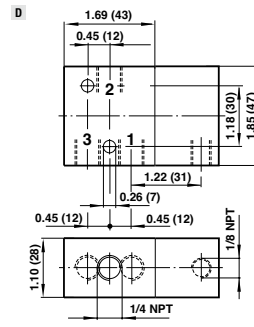
1/8, 3/2 Spring return, basic body



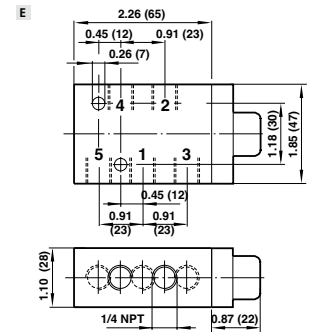
1/4, 3/2 Spring return, basic body



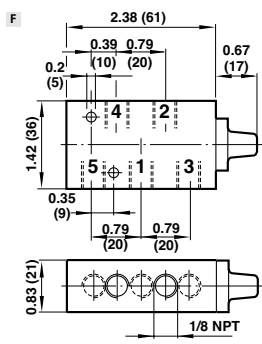
1/4, 3/2 Pilot return, basic body



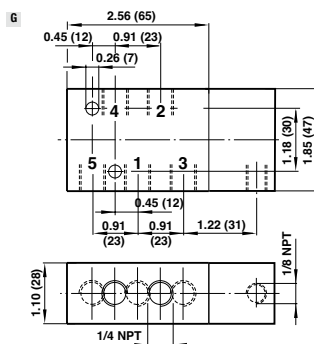
1/8, 5/2 Spring return, basic body



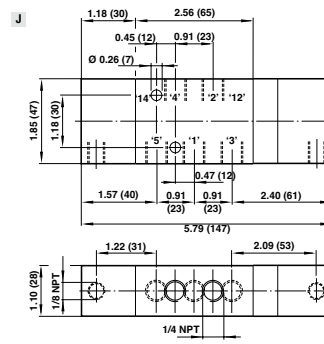
1/4, 5/2 Spring return, basic body



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



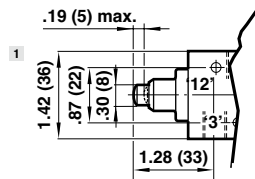
1/4, 5/3 Spring return, basic body



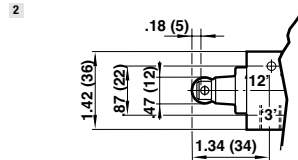
Mechanical valve actuators

Dimensions in inches (mm)

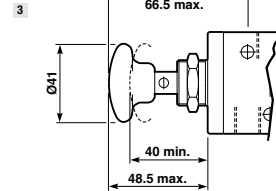
Plunger – 1/8 valves



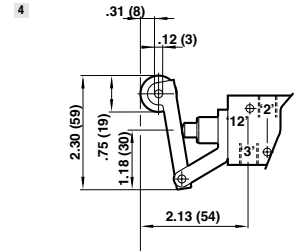
Roller – 1/8 valves



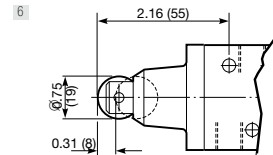
Plunger – G1/4 valves



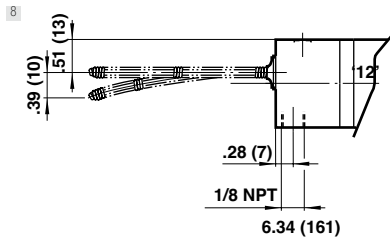
Roller lever – 1/8 valves



Roller – 1/4 valves



Antenna – 1/8 valves

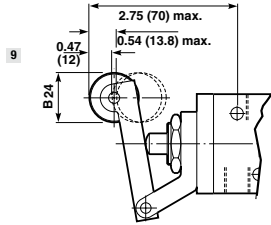


- In stock
- ◆ Ships within one week

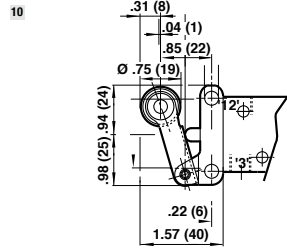
Dimensions in inches (mm)

Mechanical valve actuators

Roller lever – 1/4 valves

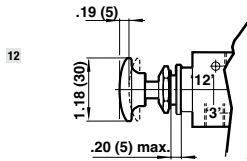


Heavy duty roller lever – 1/8 valves

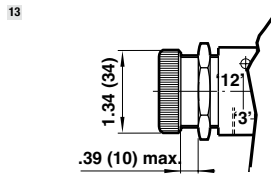


Manual valve actuators

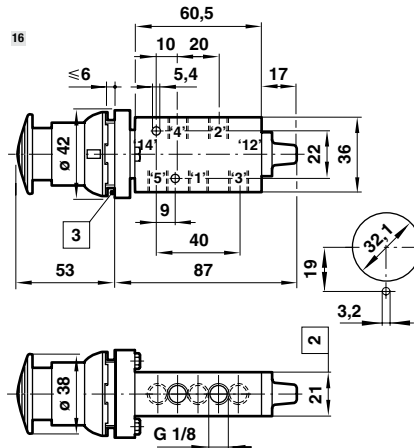
Button – G1/8 valves



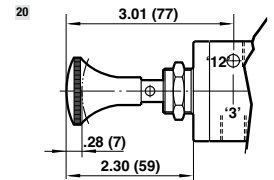
Button (shrouded) – 1/8 valves



Emergency stop – 1/8 valves



Knob – G1/4 valves

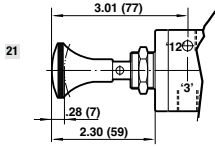


- In stock
- ◆ Ships within one week

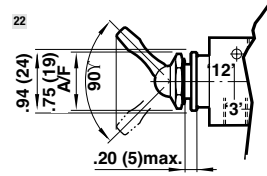
Manual valve actuators

Dimensions in inches (mm)

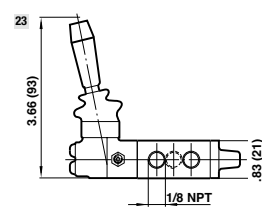
Knob – 1/8 valves



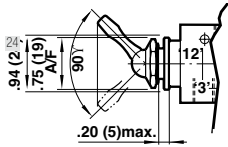
Lever operated spring return valve – 1/8 valves



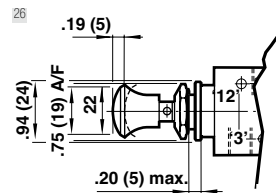
Lever operated spring return valve – 1/8 valves



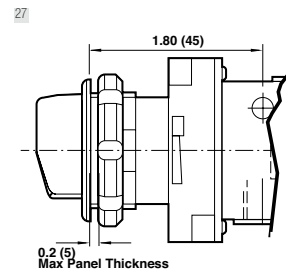
Switch – G1/8 valves



Knob operated knob return valve – G1/8 valves



Rotary knob – 1/8 valves

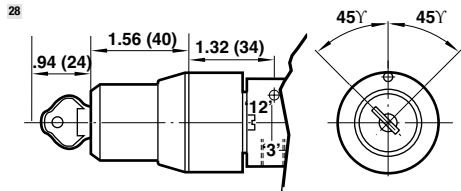


- In stock
- ◆ Ships within one week

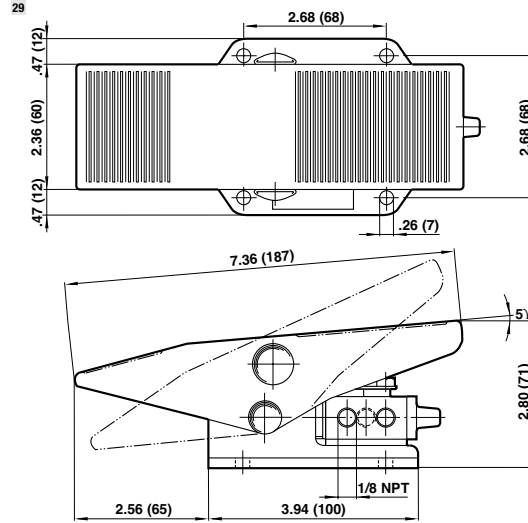
Manual valve actuators

Dimensions in inches (mm)

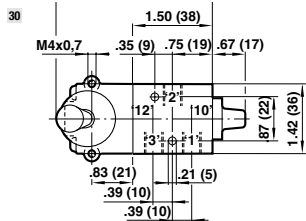
Key – 1/8 valves



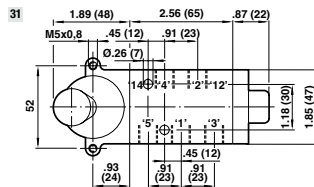
Pedal/treadle – 1/8-1/4 valves



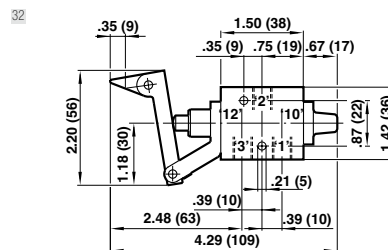
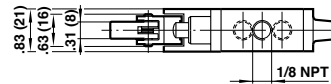
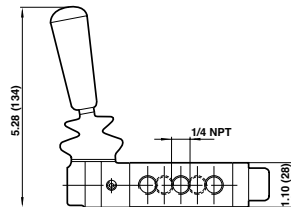
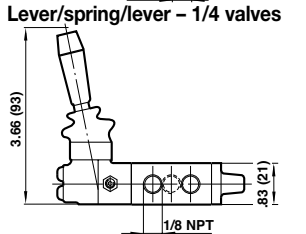
Lever – 1/8 valves



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' ●	Foot pedal/heavy duty spring	1/4	1.67	-10" Hg to 150	K41DA00 ●	KF0 ●	54237-59 ●	1
K41EA00KS6KF0' ●	Foot pedal/spring	3/8	1.67	-10" Hg to 150	K41DA00 ●	KF0 ●	54237-59 ●	1
								
K41DA00KC0KL1 ●	Lever/lever/Detent	1/4	1.67	-10" Hg to 150	K41DA00 ●	KL1 ●	54237-59 ●	2
								
K41DA00KS6KLO' ●	Lever/spring	1/4	1.67	-10" Hg to 150	K41DA00 ●	KL0 ●	54237-59 ●	2
								
K41DA00C0KB3' ●	Palm button/Detent	1/4	1.67	-10" Hg to 150	K41DA00 ●	KB3 ●	54237-59 ●	3
K41EA00C0KB3' ●	Palm button/Detent	3/8	1.67	-10" Hg to 150	K41EA00 ●	KB3 ●	54237-59 ●	3
								
K41DA00KS6KB01P2' ●	Palm button/spring	1/4	1.67	-10" Hg to 150	K41DA00 ●	KB0 ●	54237-59 ●	3
								
K41DA00C0KB0 ●	Palm Button/spring	1/4	1.67	-10" Hg to 150	K41DA00 ●	KB0 ●	54237-59 ●	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' ●	tappet/spring	1/4	1.67	-10" Hg to 150	K41DA00 ●	KP0 ●	54237-59 ●	5
								
K41DA00KS6KR2' ●	Lever roller/spring, Horizontal	1/4	1.67	-10" Hg to 150	K41DA00 ●	KR2 ●	54237-59 ●	5
Image not available								
K41EA00KS6KR4' ●	Lever roller/spring, Vertical	3/8	1.67	-10" Hg to 150	K41EA00 ●	KR4 ●	54237-59 ●	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.
 K71DA00KS6KF0 ●	Foot pedal/spring	1/4	1.67	-10" Hg to 150	 ●	 ●	 ●	1
 K71DA00KC0KT1 ●	Treadle pedal	1/4	1.67	-10" Hg to 150	 ●	 ●	 ●	1
 K71DA00KC0KL1 ●	Lever/lever	1/4	1.67	-10" Hg to 150	 ●	 ●	 ●	2
 K71DA00KC0KLO ●	Detent lever/detent lever	1/4	1.67	-10" Hg to 150	 ●	 ●	 ●	2
 K71DA00KS6KLO ●	Lever/spring	1/4	1.67	-10" Hg to 150	 ●	 ●	 ●	2
 K71DA00KC0KB0 ●	Palm button, black	1/4	1.67	-10" Hg to 150	 ●	 ●	 ●	3
 K71DA00C0KB31P2 ●	Detent palm button	1/4	1.67	-10" Hg to 150	 ●	 ●	 ●	3
 K71DA00KS6KB01P2 ●	Palm button/spring, panel nut, black	1/4	1.67	-10" Hg to 150"	 ●	 ●	 ●	3
 K71EA00KS6KF0 ●	Foot pedal/spring	3/8	1.67	-10" Hg to 150	 ●	 ●	 ●	1
 K71EA00C0KL1 ●	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.
 K71DA00KS6KR2 ●	Lever roller/spring,	1/4	1.67	-10" Hg to 150	 ●	 ●	 ●	4

● In stock

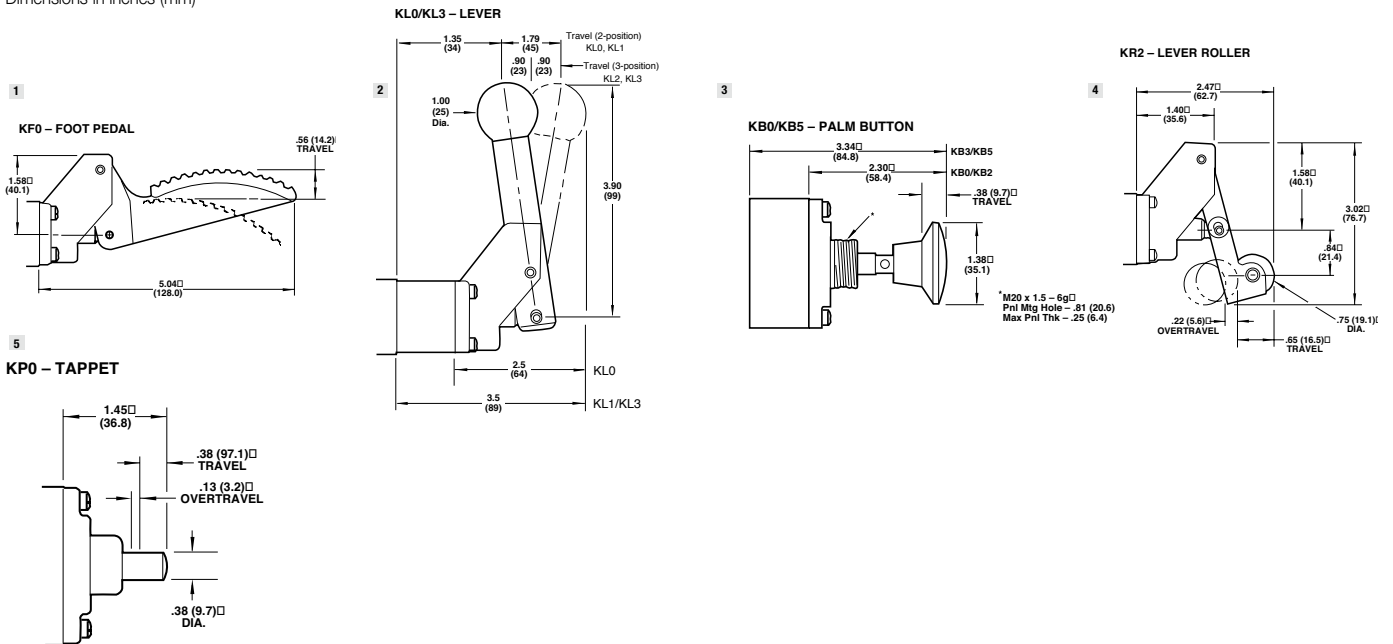
◆ Ships within one week

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
	lever	1/4	1.67	-10" Hg to 150		KL2		
	lever/lever/lever	3/8	1.67	-10" Hg to 150		KL2		
	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).

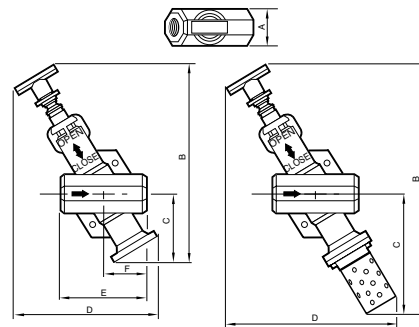
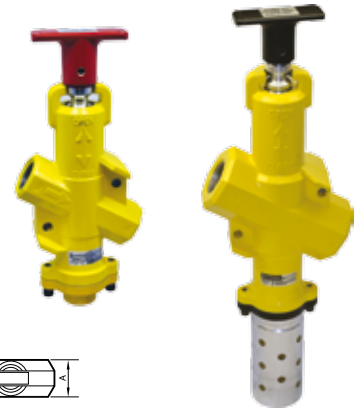
Maximum Diameter of Lock

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:

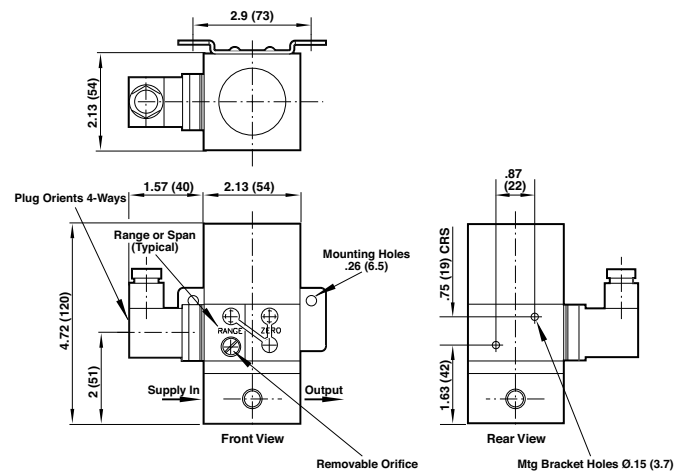
>0.025% span output change per % supply pressure change

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

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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:

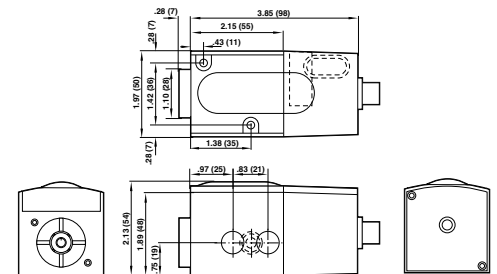
23° to 120°F (-5° to 50°C)

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

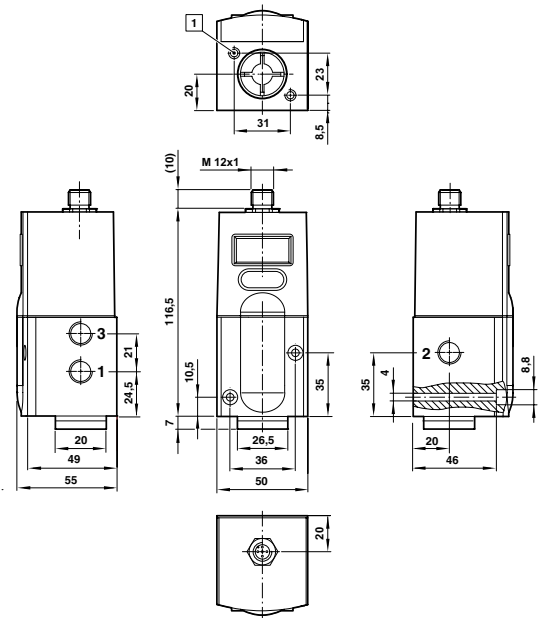
Flow:

Up to 1400 N l/min

Ambient temperature:





32°F to 122°F

Contact our technical service for
use below +32°F



Models

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
								
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

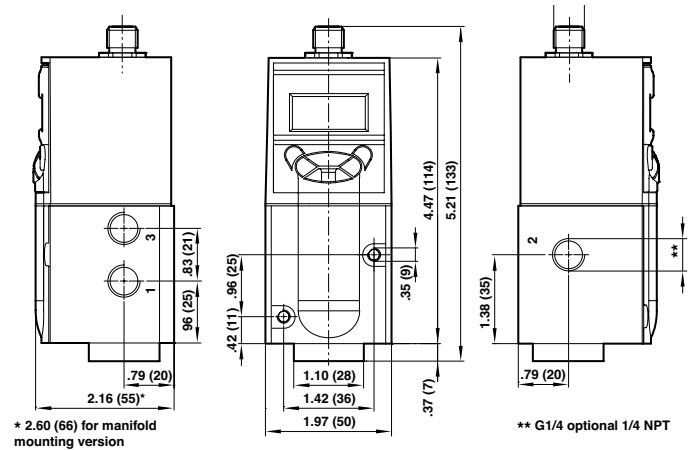
Weight

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*:

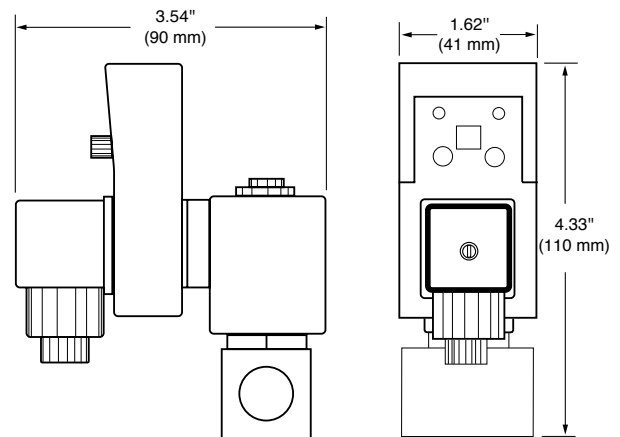
24V - 240V

Voltage Tolerance:

± 10%





Mounting:

Any position






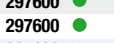


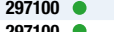


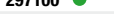


*See coil for the correct supply voltage
Dimensions in inches (mm)

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

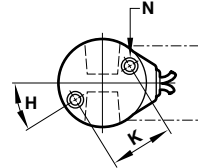
Max.= 0.290 Min. = 0.035

CV Stop

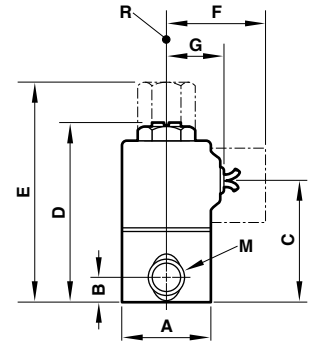
Max.= 0.115 Min. = 0.025

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

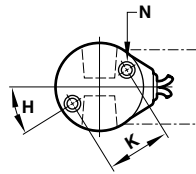
Seal Materials: Fluorocarbon

Internal Wetted Material:

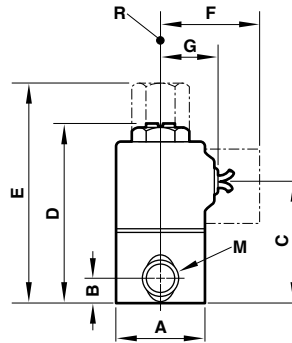
430FR & 300 Series Cres

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	24 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

1/2" 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

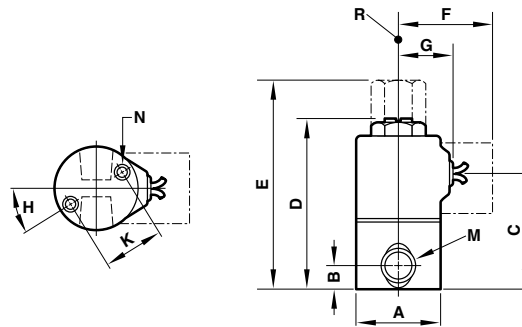
Materials

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

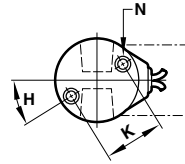
Molded with leads

Materials

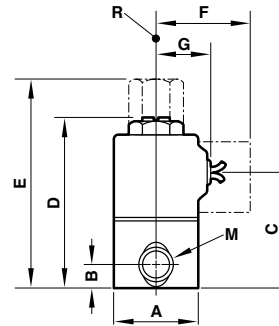
Body Material: Stainless Steel

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

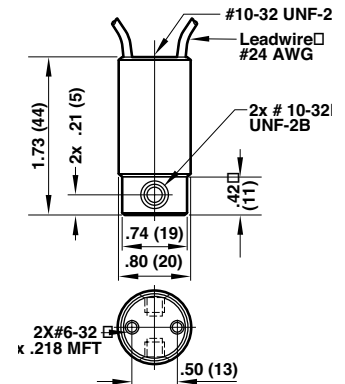
12" long #24 AWG electrical leads

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



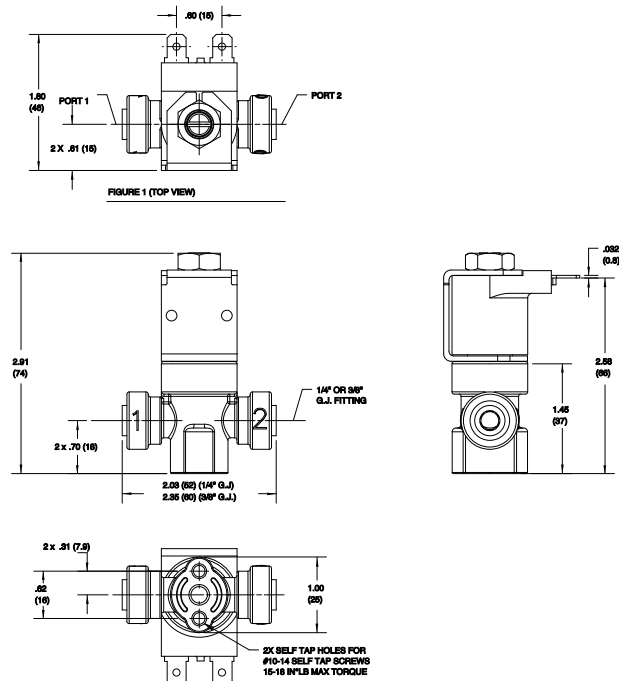
Standard Valves

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

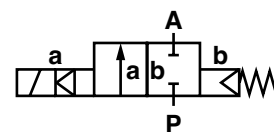
Suitable for vacuum

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



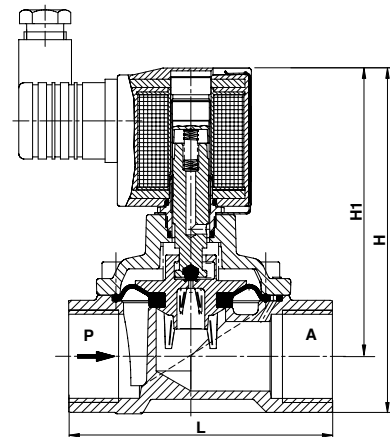
Standard Models

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.

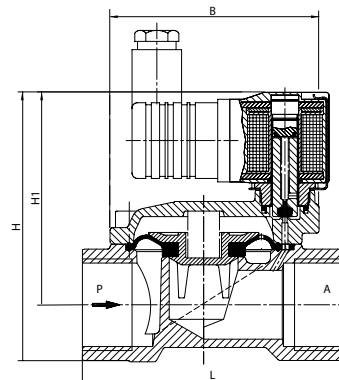


Standard Models

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

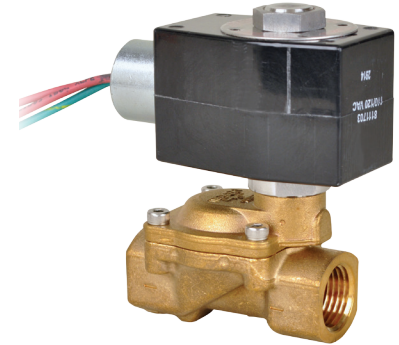
Dimensions in inches

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

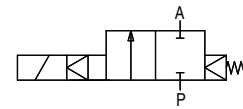
Minimum differential pressure:
1.45 psi required (NBR & FKM)
4.35 psi required (EPDM)

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

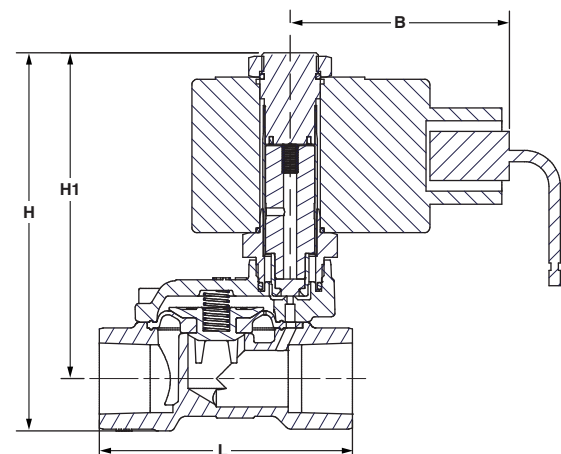


Standard Models

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

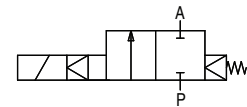
Valve with solenoid

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

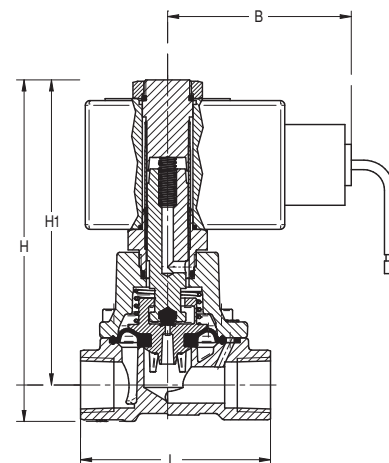
Materials:
Valve cover and body: Brass
Seat seal: NBR
Internal parts:
Stainless steel, PVDF

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:

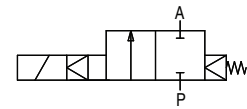
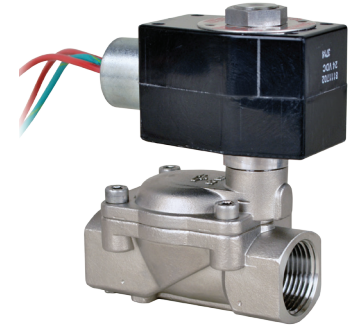
14°F to 122°F
-10°C to 50°C

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

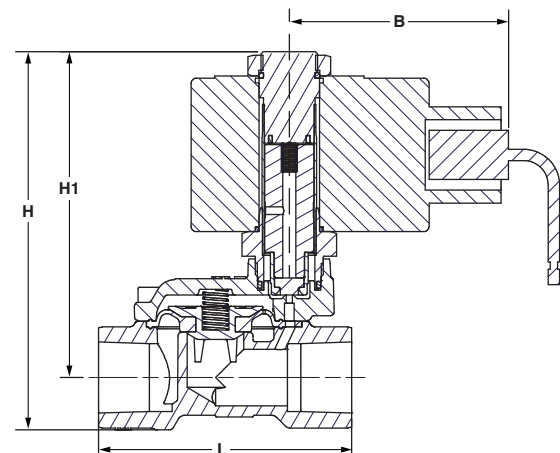


Standard Models

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

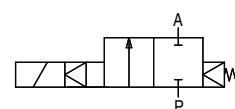
Valve with solenoid

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

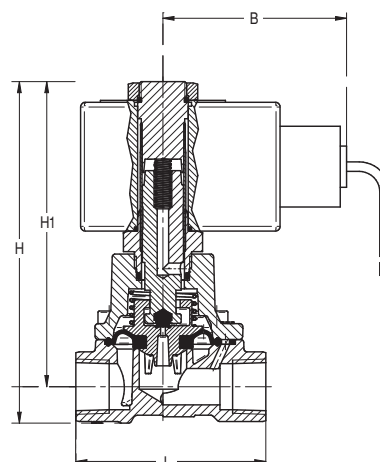
Materials:
Valve cover and body:
316 Stainless steel
Seat seal: NBR
Internal parts:
Stainless steel, PVDF

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

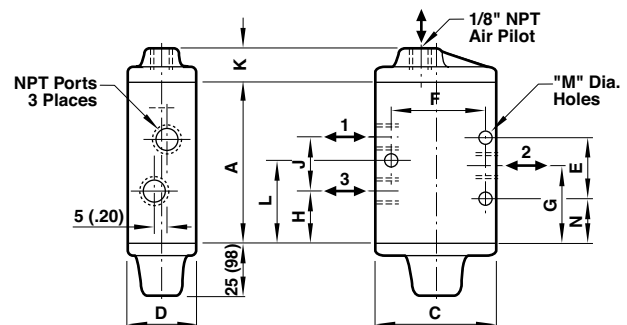
Housing: Clear anodized aluminum

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

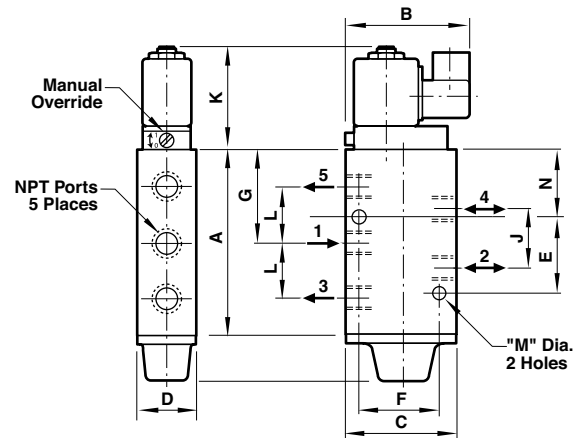
Materials

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	0000000024602400	0570275000000000	8110831000000000
2636070024712060	5/2	Sol/air spring	1/4	1.4	25-150	120 VAC	Cable Grip	0000000024612060	0570275000000000	8110831000000000
										
2636070024602400	5/2	Sol/air spring	1/4	1.4	25-150	24 VDC	None	0000000024602400	-	8110831000000000
2636070024612060	5/2	Sol/air spring	1/4	1.4	25-150	120 VAC	None	0000000024612060	-	8110831000000000
										
2636070-0247N-D	5/2	Sol/air spring	1/4	1.4	25-150	24 VDC	1/2" NPT conduit	0000000024602400	0661374000000000	8110831000000000
2636070-0247N-G	5/2	Sol/air spring	1/4	1.4	25-150	120 VAC	1/2" NPT conduit	0000000024612060	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

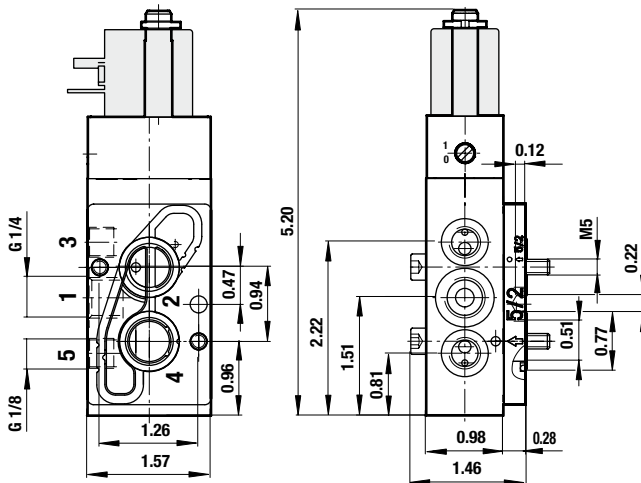
Body: Aluminium anodized





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
										
9710010303602400	5/2	Sol/Sol	1/4	1/8	Flange	0.75	24 VDC	9710010000000000	0000000303602400	-
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)

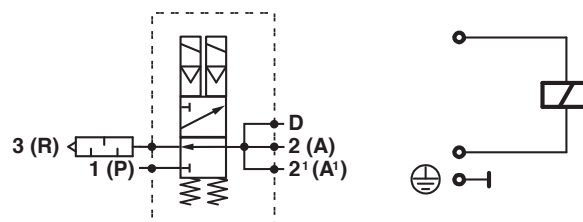
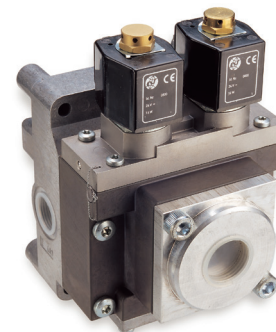
Improves safety and reduces downtime

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:

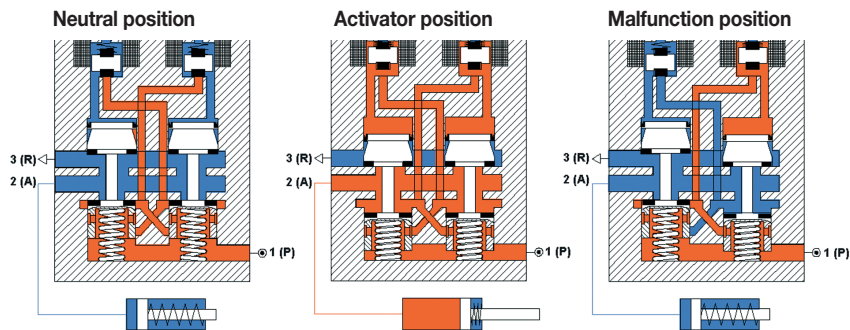
Preferably vertically

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



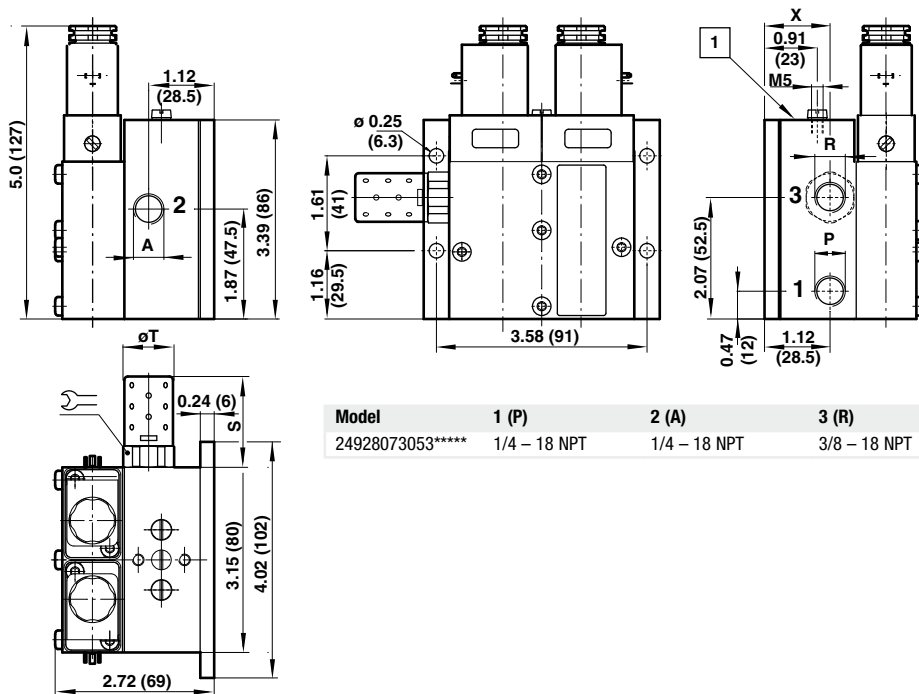
- In stock
- ◆ Ships within one week

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

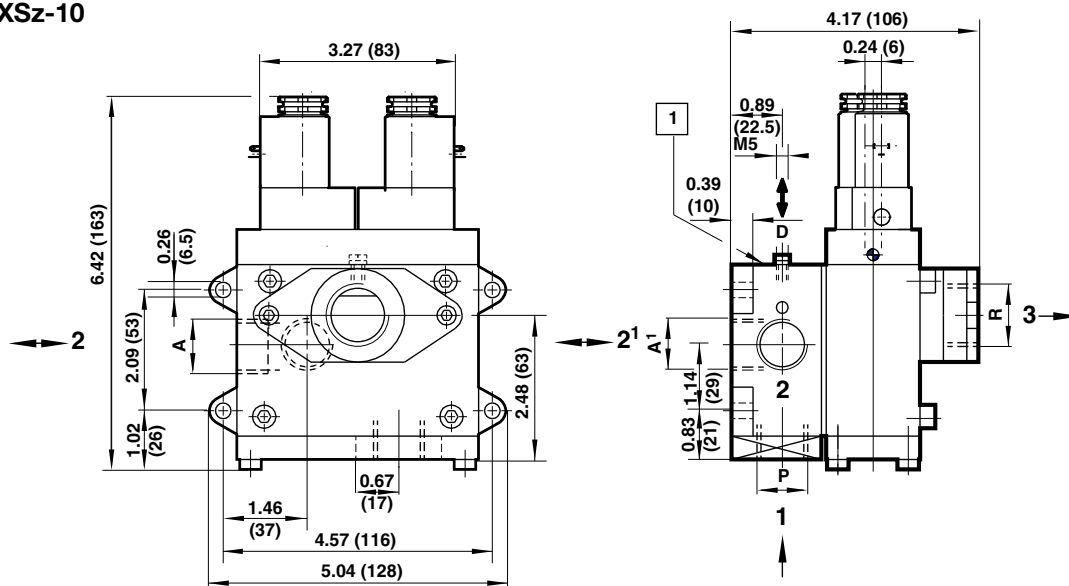
- In stock
- ◆ Ships within one week

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

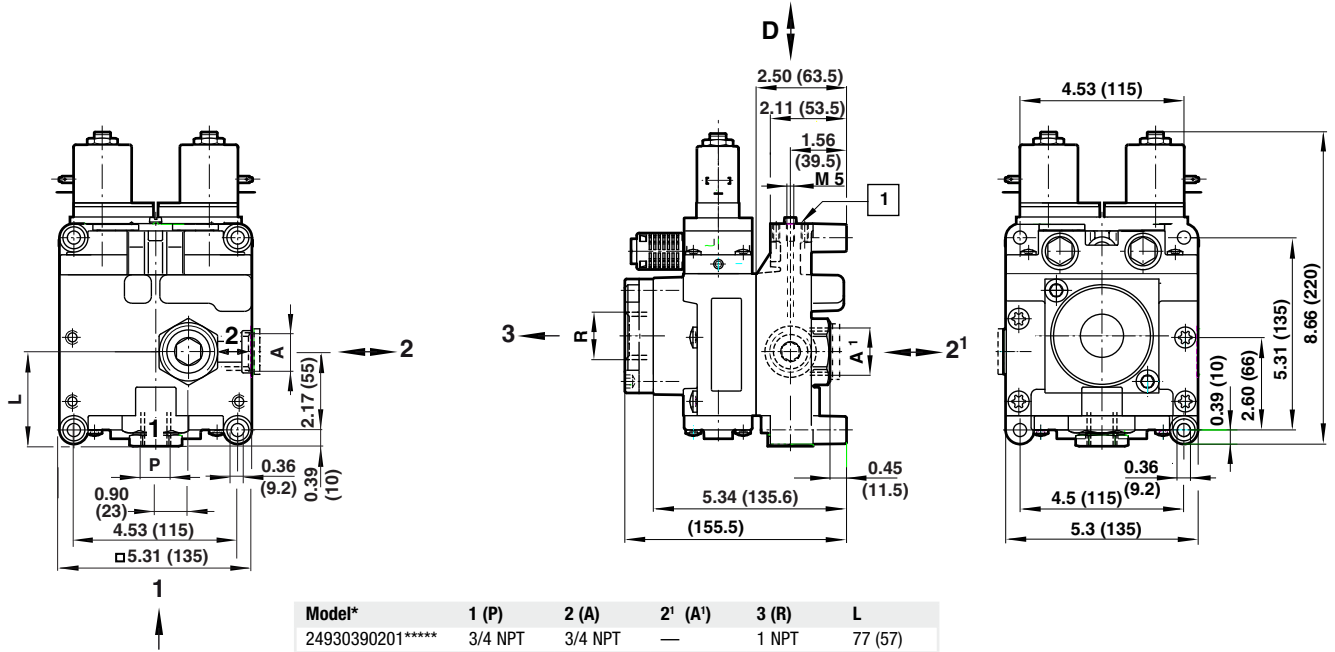
* Closed

** Dimensions shown are without DIN connectors

- In stock
- ◆ Ships within one week

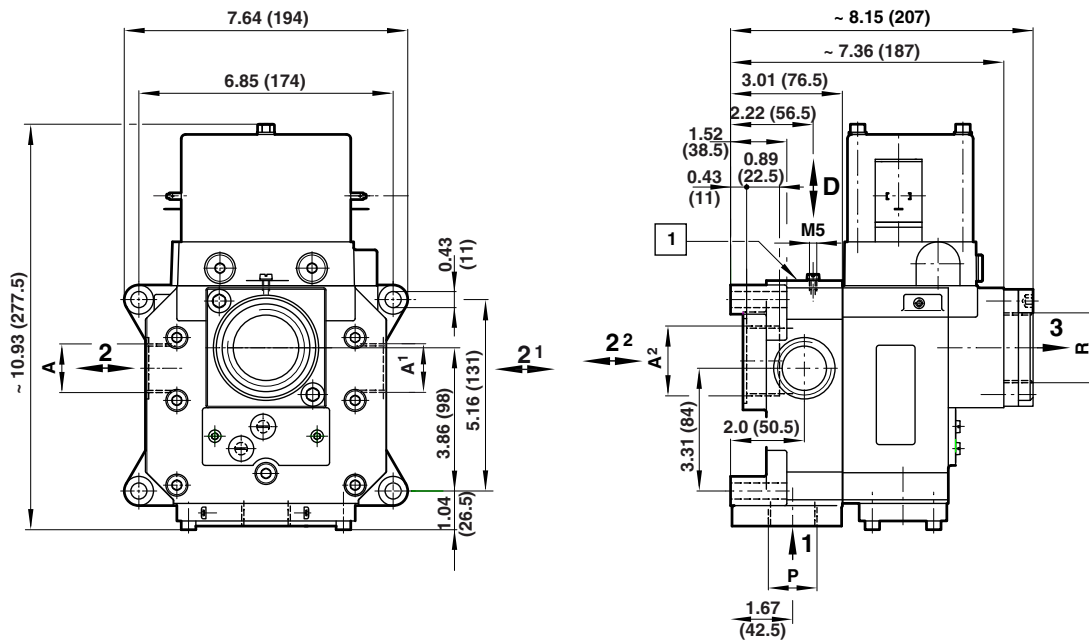
Dimensions in inches (mm)

XSz-20



* Dimensions shown are without DIN connectors

XSz-32

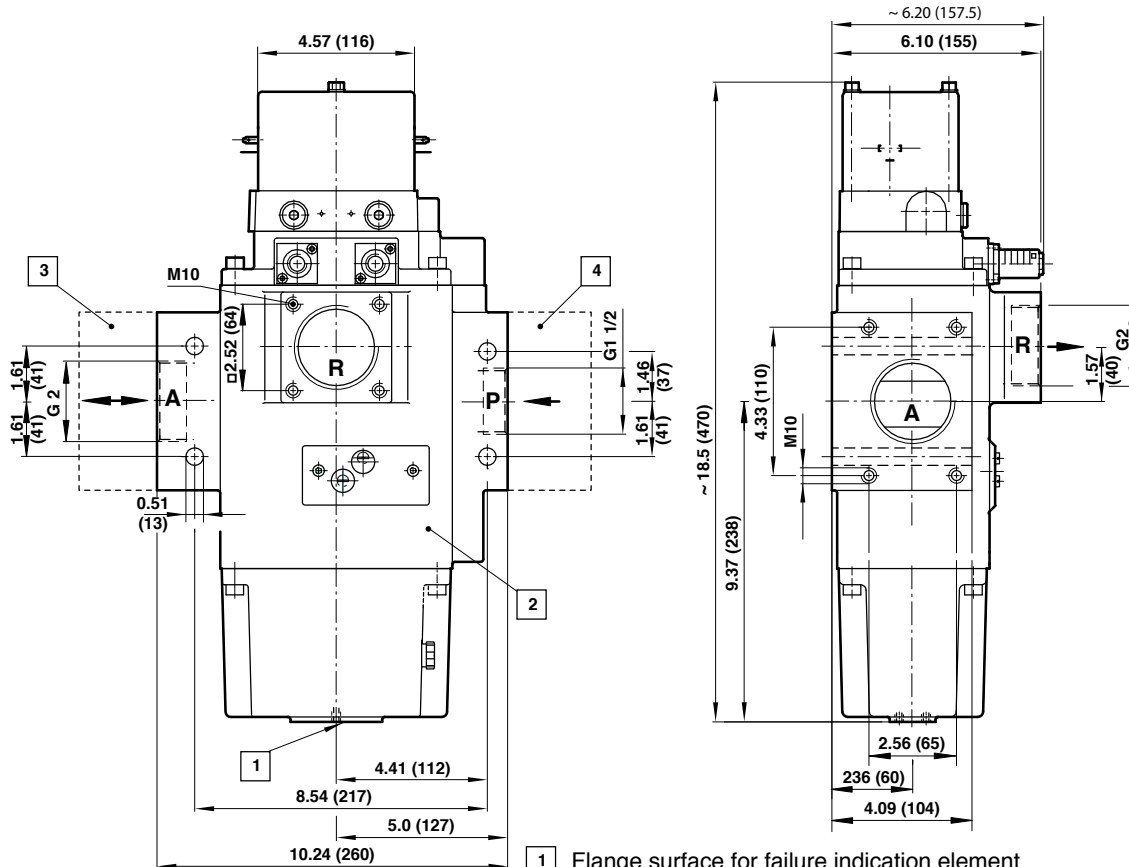


* Dimensions shown are without DIN connectors

- In stock
- ◆ Ships within one week

Dimensions in inches (mm)

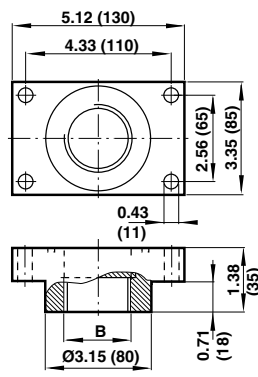
XSz-50



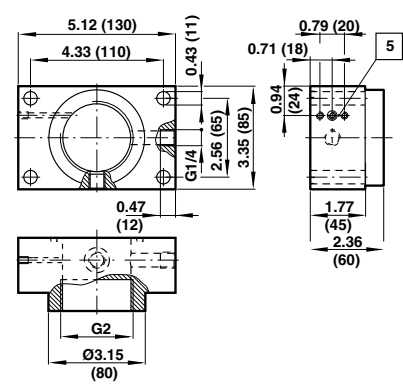
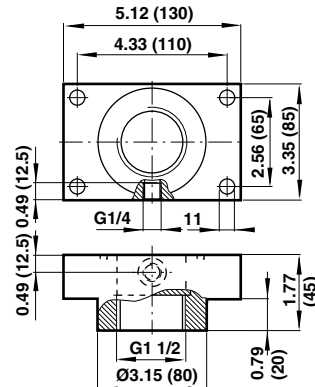
- 1 Flange surface for failure indication element
- 2 Flange surface for Pressure Balance element
- 3 Flange surface for standard flange or 18D Pressure Switch flange model number 0545005000000000
- 4 Flange surface for standard flange or optional flange 0547365000000000
- 5 Flange surface for 18D Pressure 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

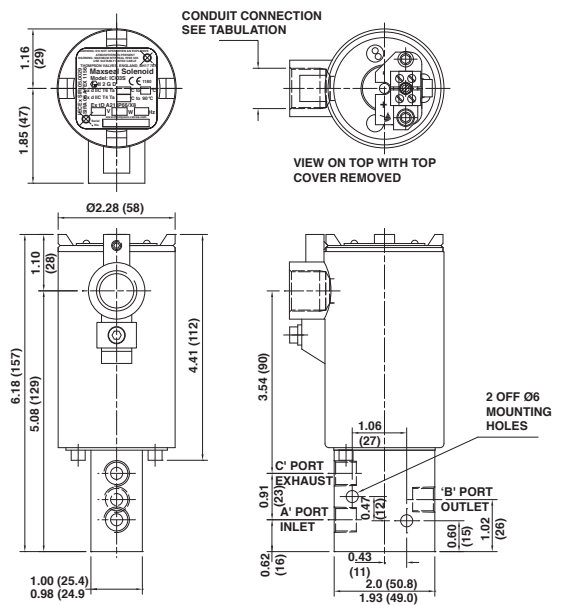
Valve body & trim materials -

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 Δp

$K_v = 11.5$ l/min for 1 bar

(15 psi) Δp

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

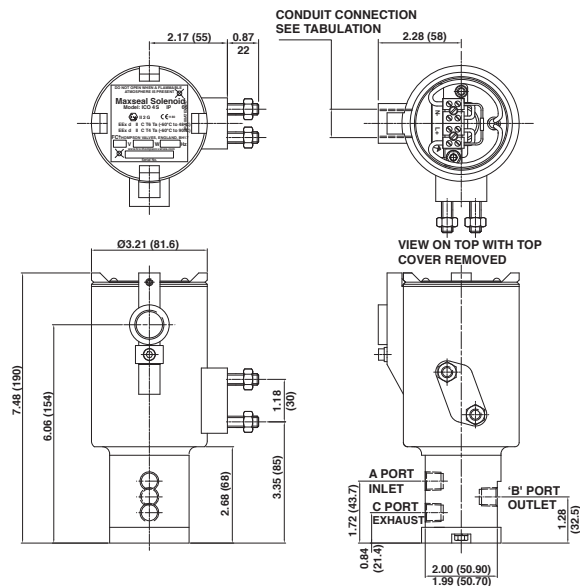
steel to the valve body and trim

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
 Y123AA1H1BS ●	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:

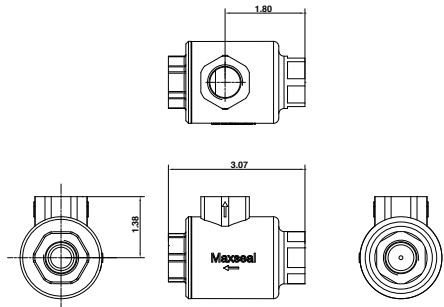
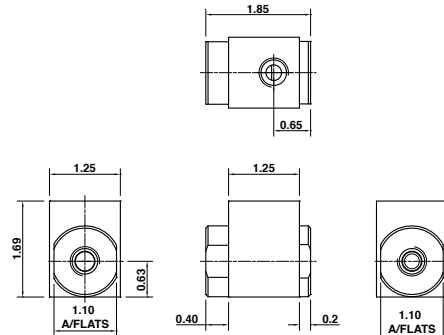
Automatic

Leak Performance:

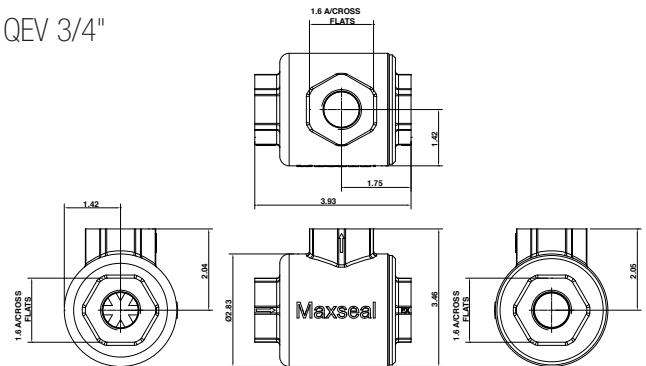
Bubble tight


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



Real time
pressure
display



Vibration
resistant



Heavy or light
duty applications



high accuracy
and resolution

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



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



SAS-20

KIP 35 SS Series
275 PSI
-40° to 300°F



SAS-22

KIP 40 SS Series
400 PSI
-40° to 300°F



SAS-23

KIP 50 SS Series
300 PSI
-40° to 300°F



SAS-24

NAS NUT/THREAD SENSORS

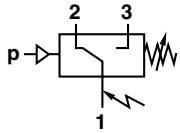
NAS Nut/Thread Sensors



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 mm²/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 _{max} [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 ⁵ switching cycles
DC		ohmic, inductive	6	0.1	—	—	—	—	

Reference number: 20/min, Reference temperature: +20°C.

I_{min} = 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 fulfil 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

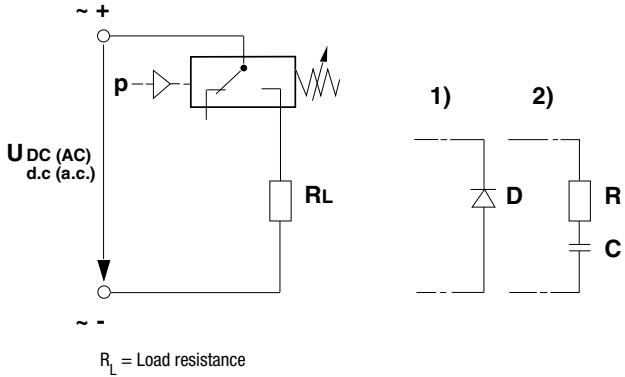
1. Quick diode (D) with t_v ≤ 200 ns, parallel to inductive load.

2. RC link in parallel to load in parallel to switching contact.

Dimensioning principles:

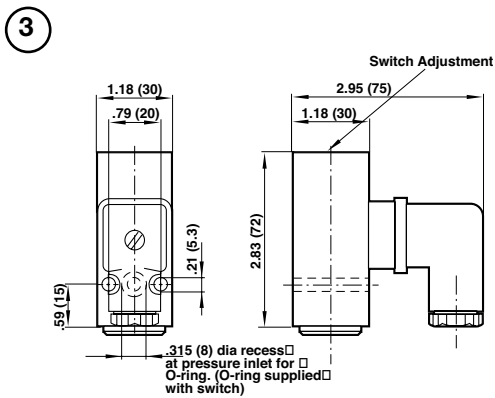
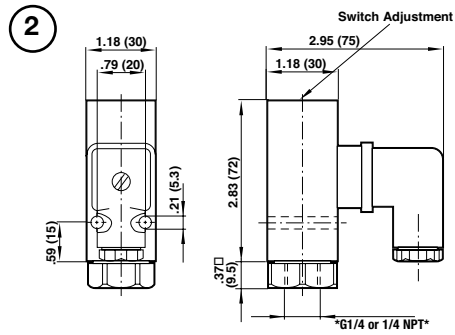
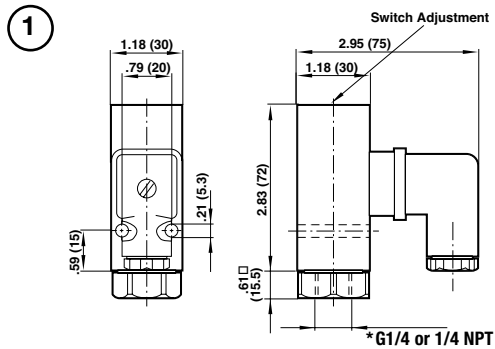
R_L in Ω ≈ 0.2 x R_{Load} in Ω

C in [µF] ≈ I_{Load} in [A]

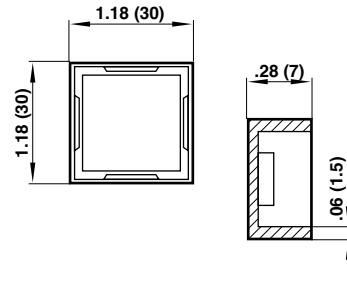


Switching function

<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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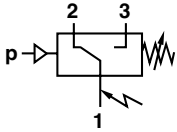
Protective Cover
 An optional elastomer cover for protection of the switch adjustment against dirt and splashing liquids Part No. 055473700000000



- 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 mm²/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 _{max} [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 ⁶ switching cycles
DC		ohmic, inductive	6	0.1	—	—	—	—	

Reference number: 20/min, Reference temperature: +20°C.

I_{min} = 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

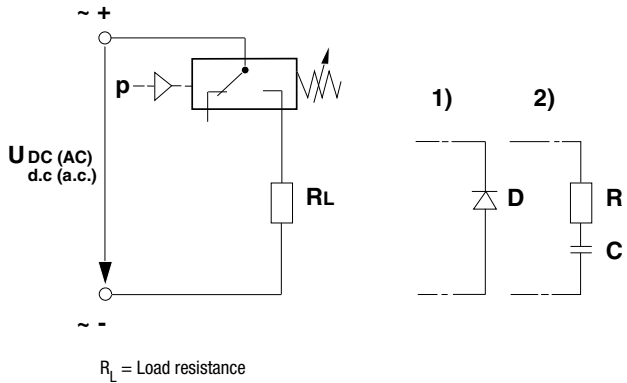
1. Quick diode (D) with $t_v \leq 200$ ns, parallel to inductive load.

2. RC link in parallel to load in parallel to switching contact.

Dimensioning principles:

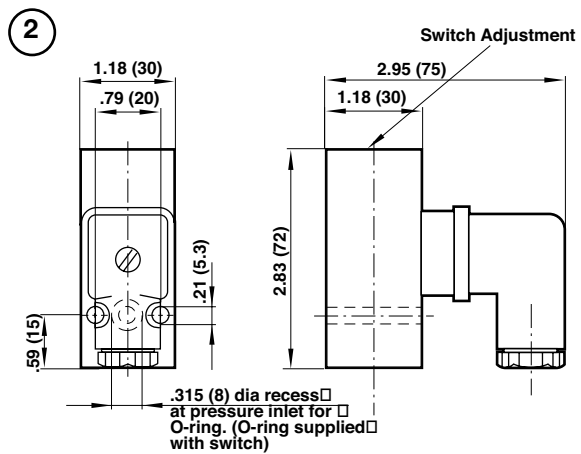
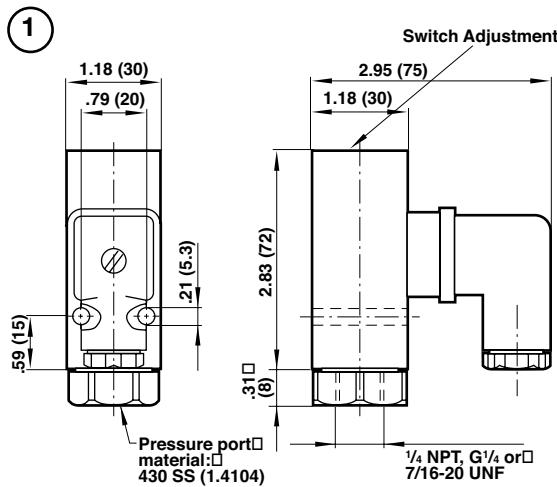
R_L in $\Omega \approx 0.2 \times R_{Load}$ in Ω

C in $[\mu F] \approx Load$ in $[A]$

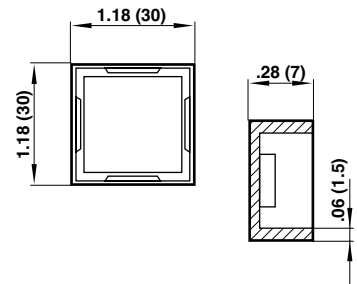


Switching function

<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. 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

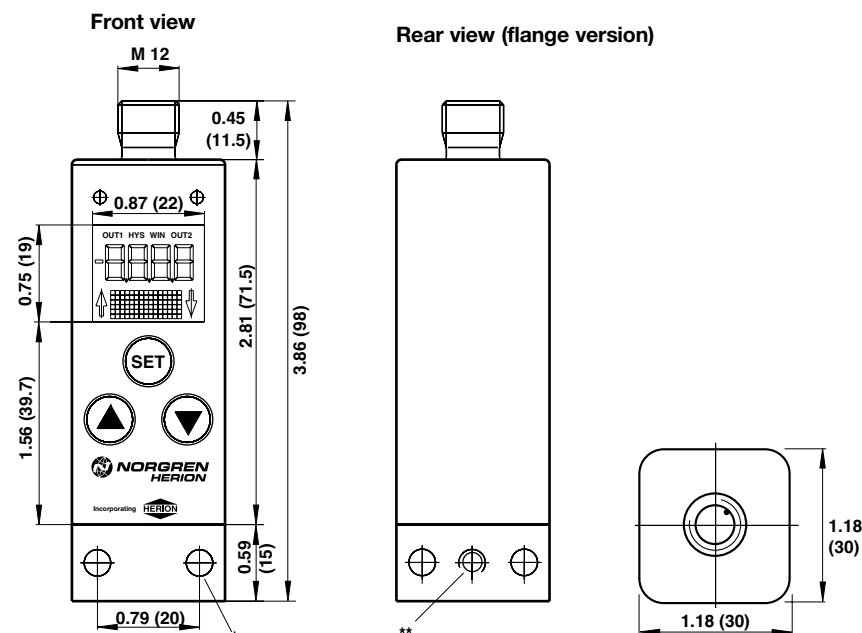
Switching output

Switching mode	PNP sourcing type transistor, suitable for inductive load
Output voltage	Supply voltage -1.5 V
Analog output	4 – 20mA
Contact rating	I _{max} = 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/cm², mmHg, InHg or mmH₂O) 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 ± 1 digit - without temperature sensitivit

Response time:

± 2.5 ms

Shock proof:

100g (980 m/s²), 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)

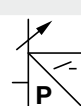
Insulation resistance:

50 M Ω min (at 500 VDC (between case and lead wire)

Electromagnetic compatibility:

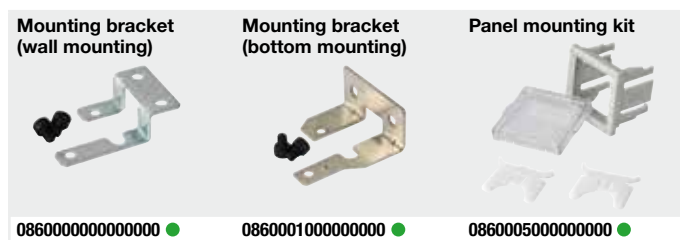
According to EN 61326-1

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



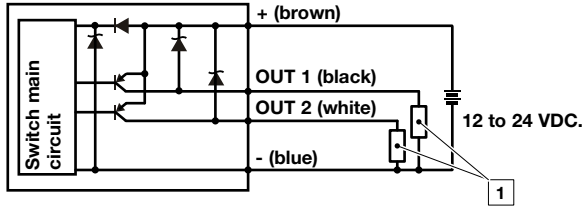
● In stock

◆ Ships within one week

Electrical connection M12 x 1

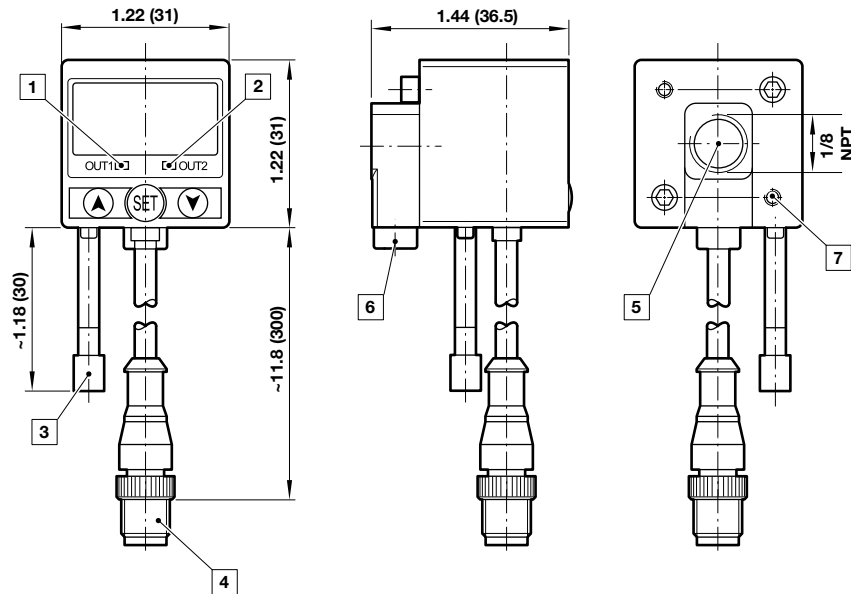
	PIN-No.	Signal	Cable
	1	+ UB	brown
	2	Out 2	white
	3	-	blue
	4	Out 1	black

PNP



Pressure switch

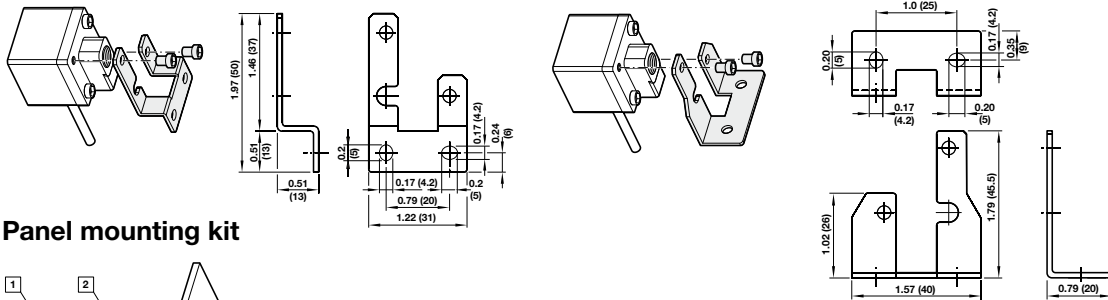
1 Load



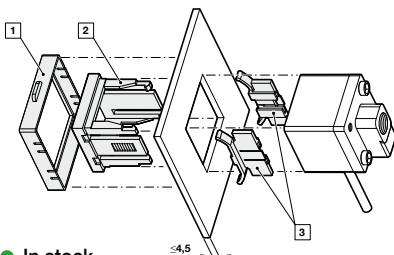
- 1 Switch OUT 1, green LED
- 2 Switch OUT 2, red LED
- 3 Dustproof protector
- 4 Connector M12 x 1
- 5 Inlet port
- 6 Alternative inlet port G $\frac{3}{8}$ plugged
- 7 Thread for mounting screw

Mounting bracket (wall mounting)

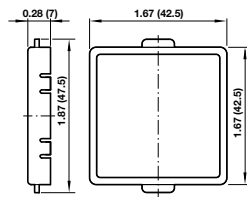
Mounting bracket (bottom mounting)



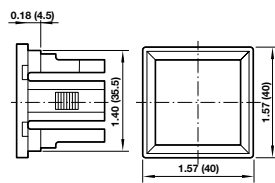
Panel mounting kit



Front protective lid



Panel adaptor



- 1 Front protection lid
- 2 Panel adaptor
- 3 Safety adaptors

- In stock
- ◆ Ships within one week



Engineering GREAT solutions 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

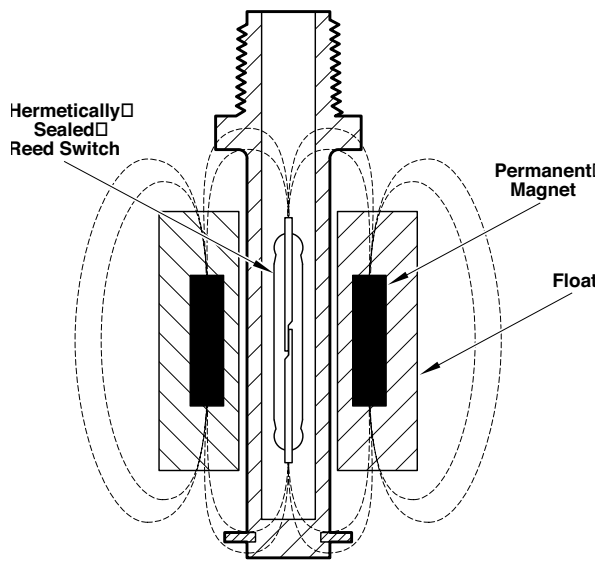
We deliver and support our high quality products through our global service network.

> 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.

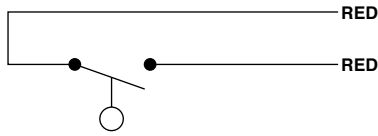
Terminations

A variety of wire terminations, custom lead lengths, cable jackets and connectors are also available.

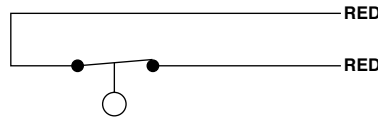
In addition to single point detectors, we offer multipoint products for OEM applications. Complete the Application Inquiry Sheet and fax to 860-677-4999 or call 800-722-5547.

Standard reed switches are SPST or SPDT. The diagrams below show the typical wiring.

Form A SPST - single pole / single throw
Normally open dry

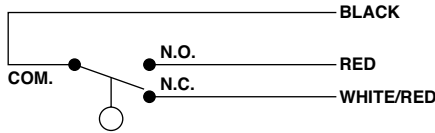


Normally Closed Dry



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.

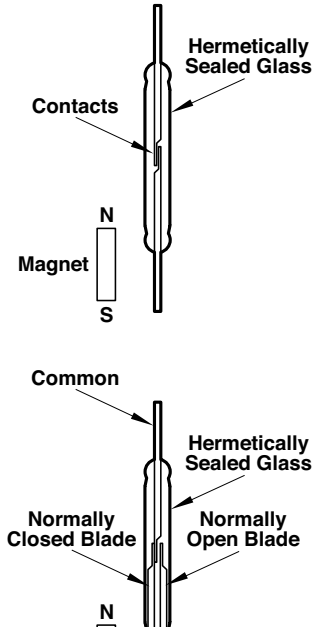
Switch Ratings Max - Resistive Loads

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

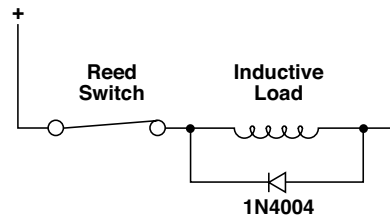
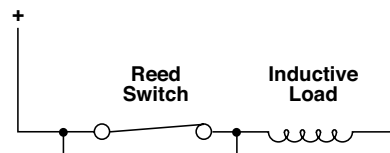


Figure 2
A.C. Contact Protection



Reliable, compact, low cost solution to liquid-level control

Small, compact size with small displacement

Seamless cellular construction

Excellent chemical resistance

NSF Approved

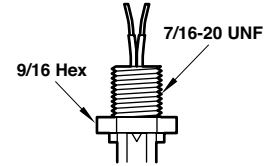
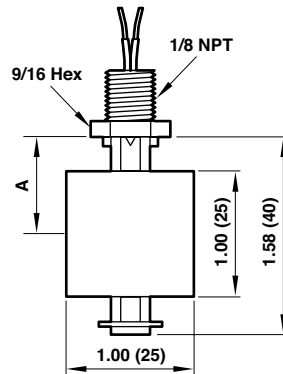
Unique hex designed stem



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

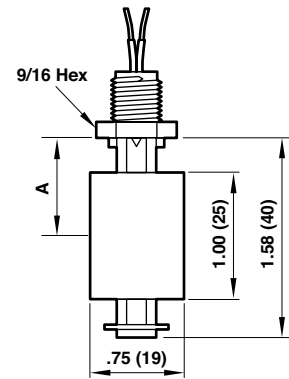
Technical data

Maximum Pressure 150 PSI (10.3 bar) @ 70°F	Recommended Minimum Liquid SP GR 0.90
Temp. Operating Range -40°F to 150°F (-40°C to 66°C)	Float Material Seamless Cellular Polypropylene
Mounting 1/8" NPT or 7/16 - 20 UNF	Stem and Other Parts Polypropylene
Leads 22 AWG, 24" long	

Mini LS 1 Series Ordering Numbers:

Part Number	MTG	Material	Switch Rating
0763-024 [†] ◆	1/8" NPT	Polypro	20 VA
1340-024 [†] ◆	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.

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File No. E 129277



CSA Approved
File No. LR 90981

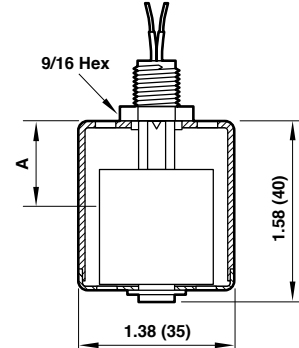


LS 1 Series with Slosh Shield

- 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

Maximum Pressure @70° F	Leadwire Polypro Units 22 AWG, 24" long
Foamed Float 150 PSI (10.3 bar)	Recommended Minimum Liquid SP GR Foamed Polypro Float 0.72 Hollow Polypro Float 0.55
Hollow Float 10 PSI (.69 bar)	
Temp. Operating Range 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 [†] ◆	1/8" NPT	Polypro	Polypro	Polypro	20 VA
1347-002 [†] ◆	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

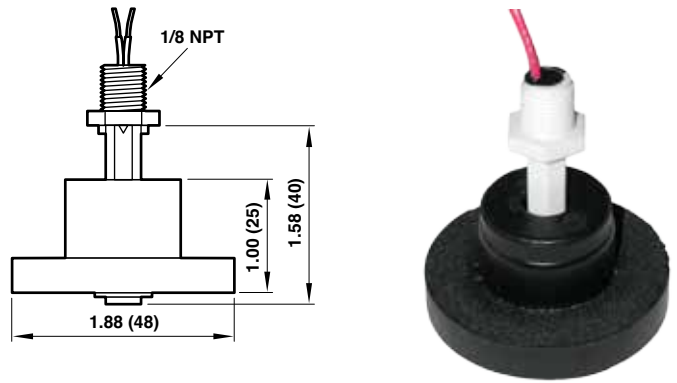
Detect Liquids as Low as 5/8"

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

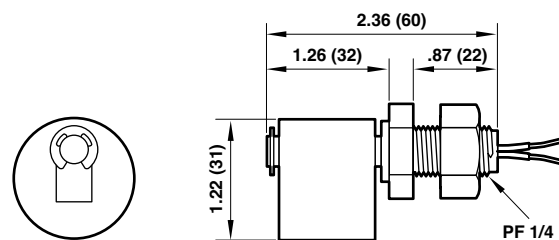


Type P



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

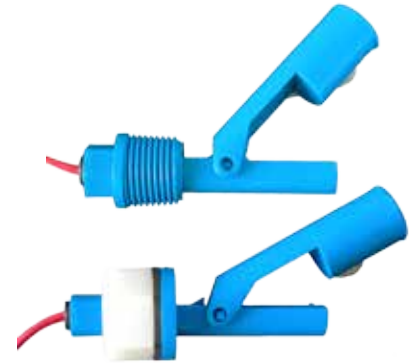
Normally Open Dry Condition:

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

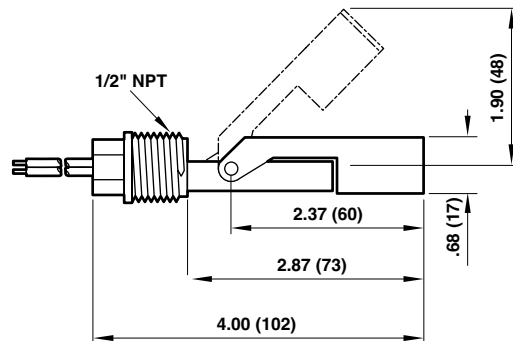
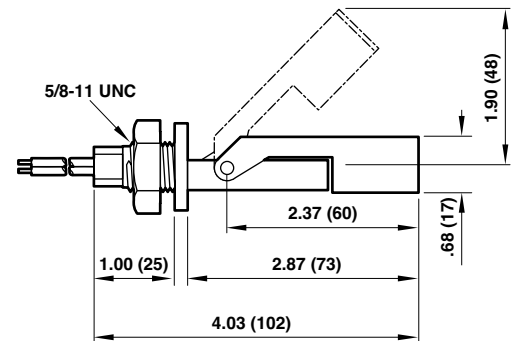
Liquid SP GR 0.65



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

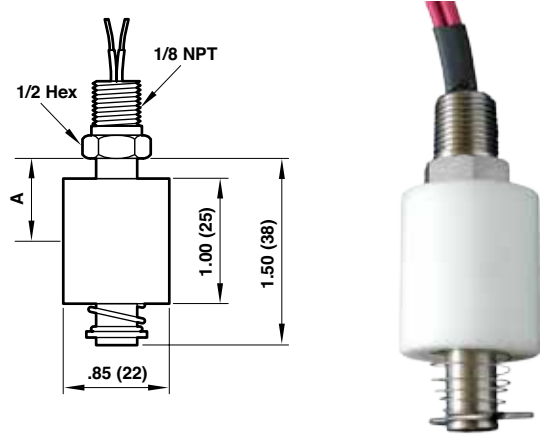
300 Series Stainless, Epoxy

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

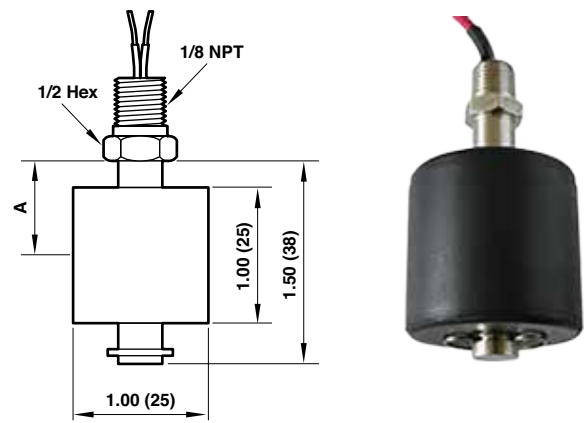
1/8" NPT

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

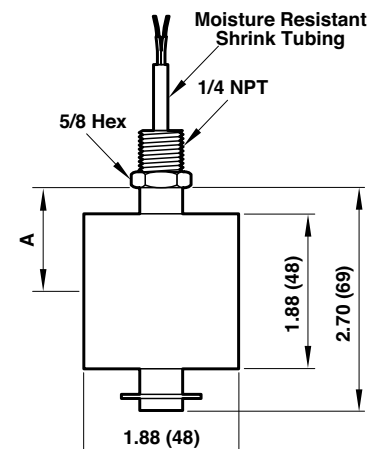
Recommended Minimum

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

Maximum Pressure
 150 PSI (10.3 bar)

Temp. Operating Range
 -40°F to 225°F
 (-40°C to 107°C) in oil
 -40°F to 180°F
 (-40°C to 82°C) in water

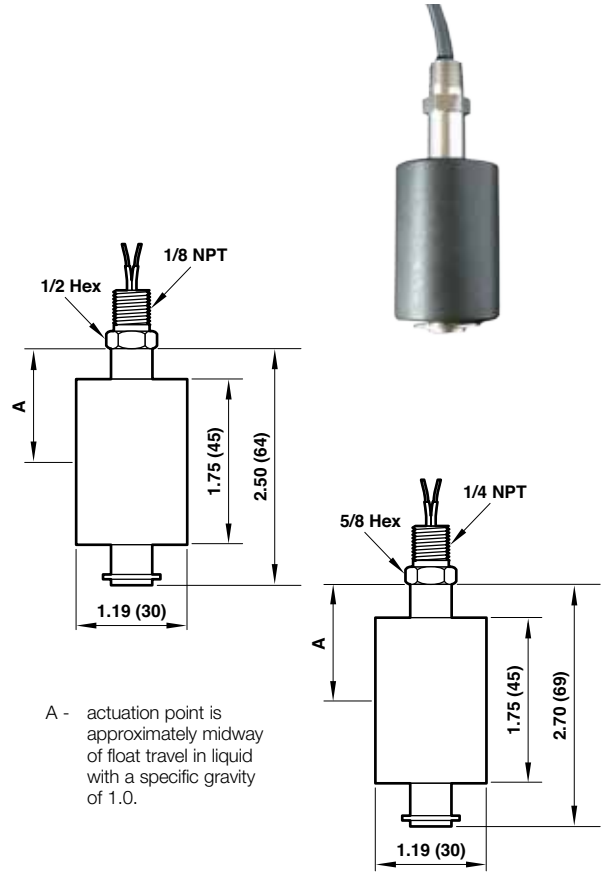
Mounting
 1/8" NPT - 1/4" NPT

Leads
 18 AWG, 24" long

Recommended Minimum
 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

Maximum Pressure
 150 PSI (10.3 bar)

Temp. Operating Range
 -40°F to 225°F
 (-40°C to 107°C) in oil
 -40°F to 180°F
 (-40°C to 82°C) in water

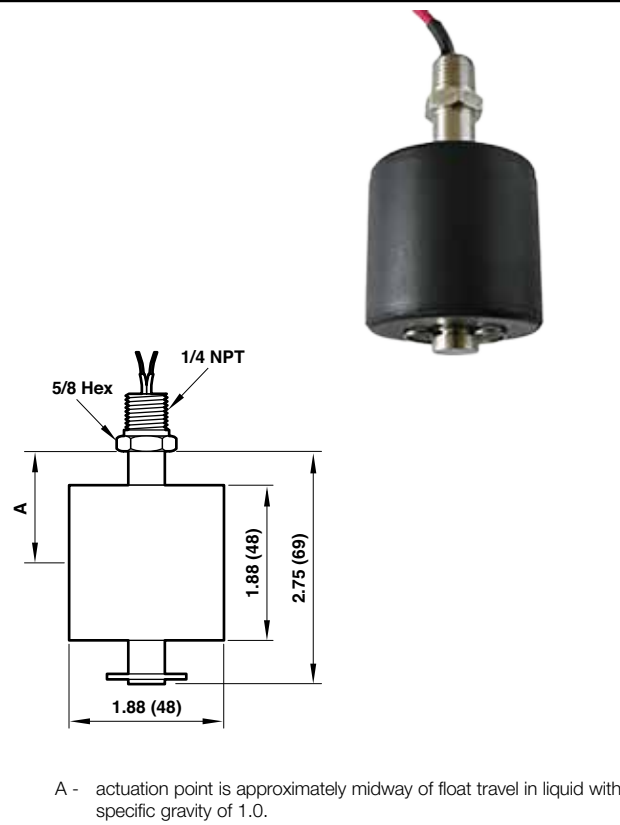
Mounting
 1/4" NPT

Leads
 18 AWG, 24" long

Recommended Minimum
 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

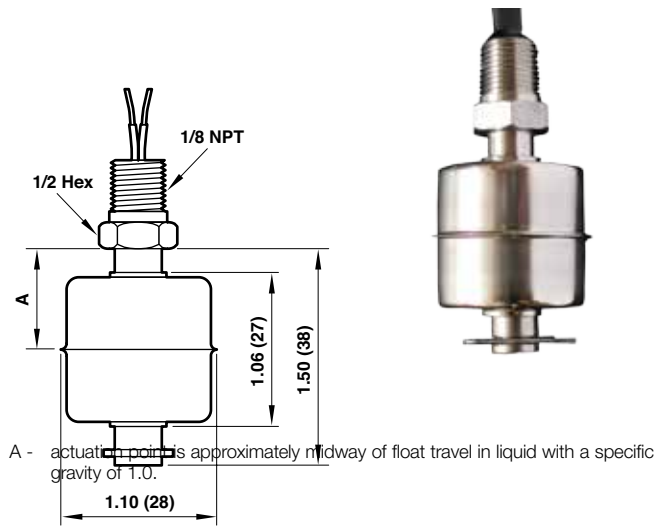
Recommended Minimum

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

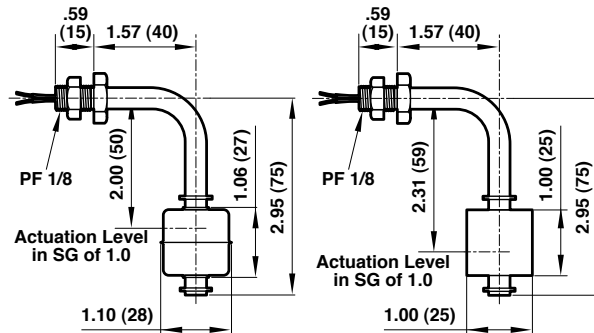
35 SS Series Sidemount Ordering Numbers:

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



Buna Floats:
L1=2.75 (69.9mm) ±3/16"

Stainless Steel Floats:
L1=2.50 (63.5mm) ±3/16"



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**Maximum Pressure**

400 PSI (27.6 bar)

Temp. Operating Range

-40° to 300°F (-40° to 149°C)

Leads

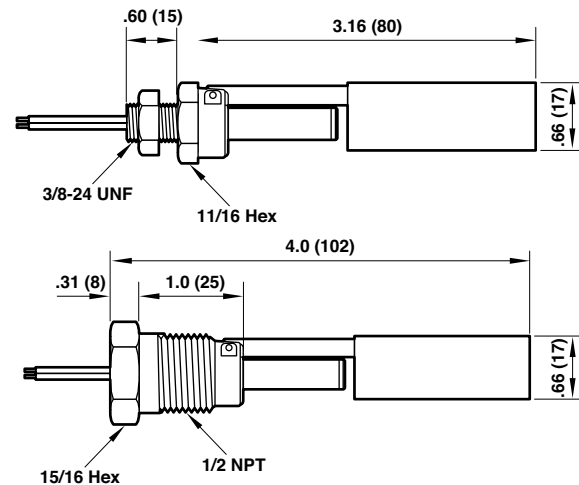
22 AWG, 24" long

Recommended Minimum

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

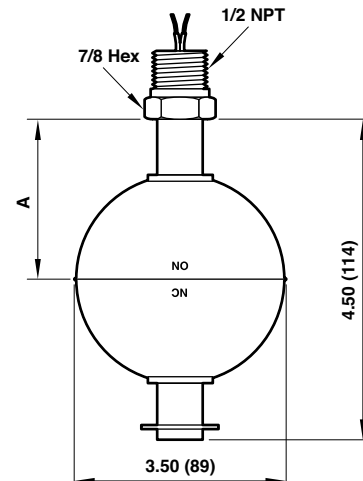
Recommended Minimum

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

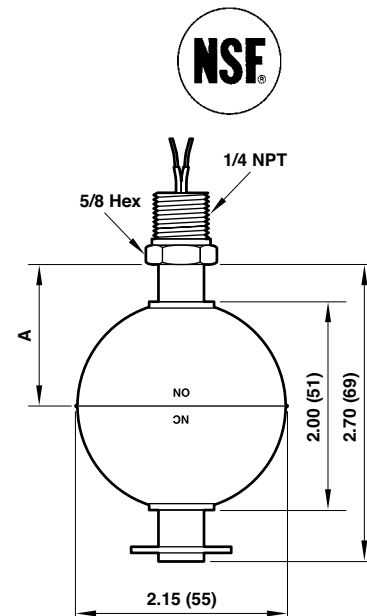
Recommended Minimum

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

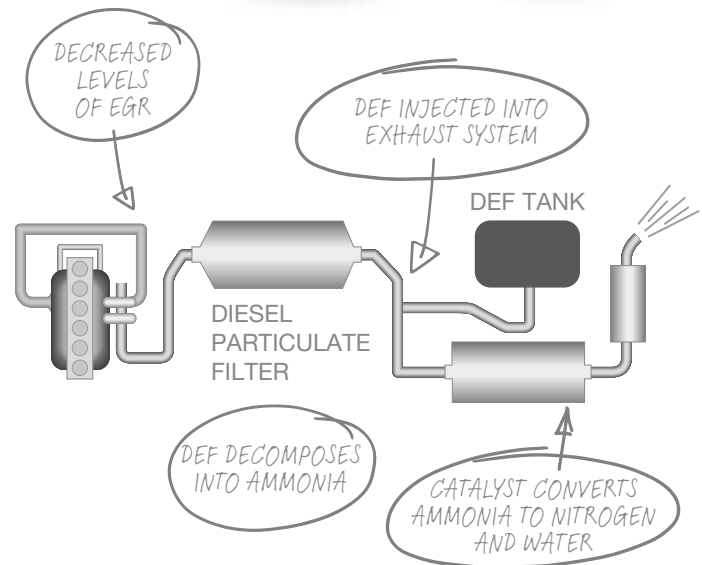
» CUSTOMER APPLICATION

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**

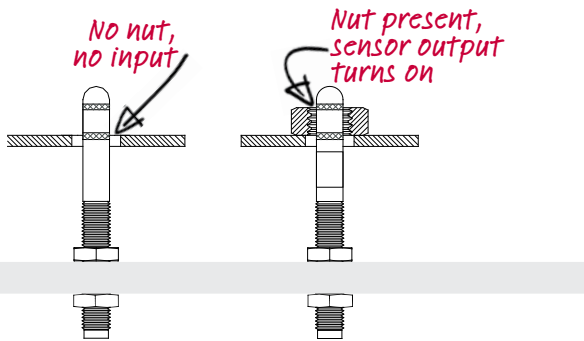
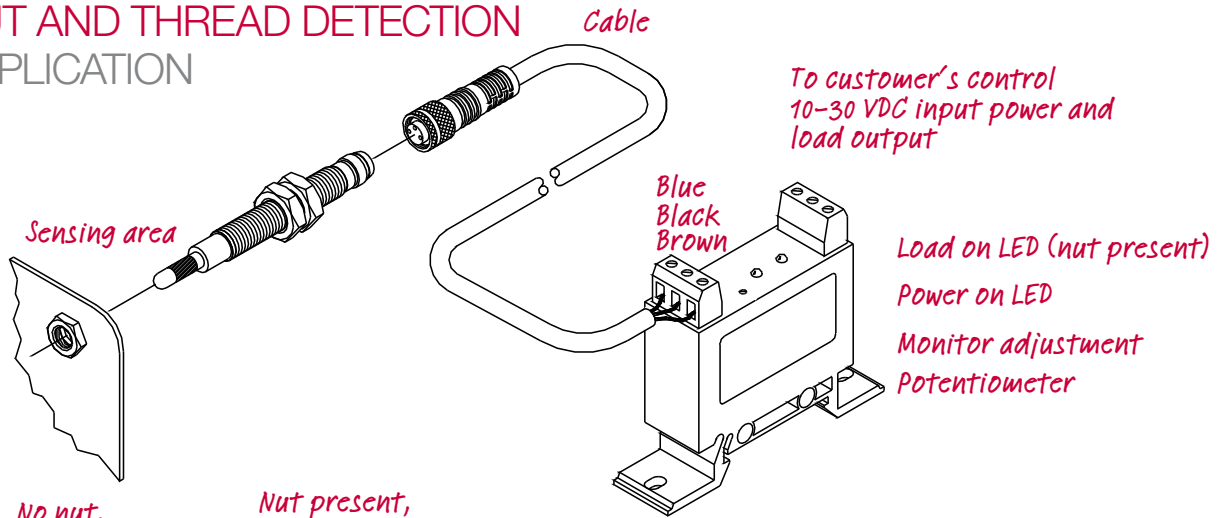
NAS MET THE CUSTOMER CHALLENGE

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.

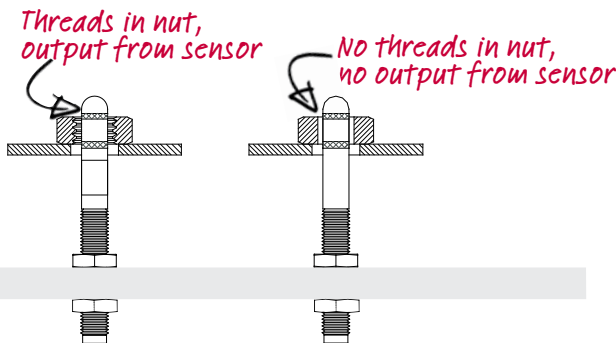


NUT AND THREAD DETECTION APPLICATION



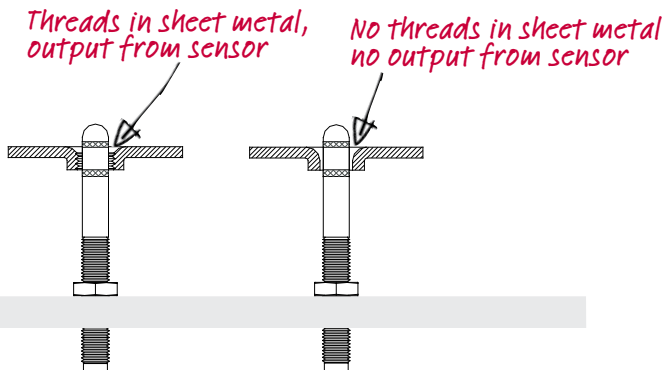
NUT DETECTION

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

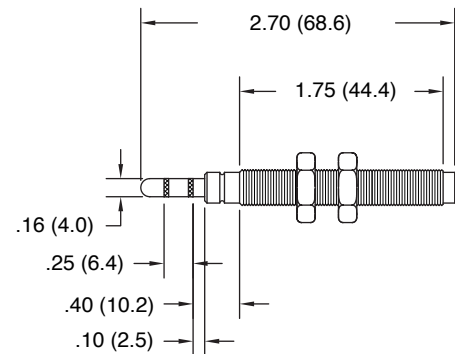
5.0mm (.20") for M6 nut

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

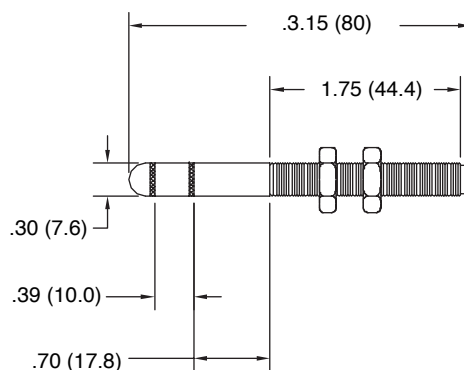
Operating temperature range:

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

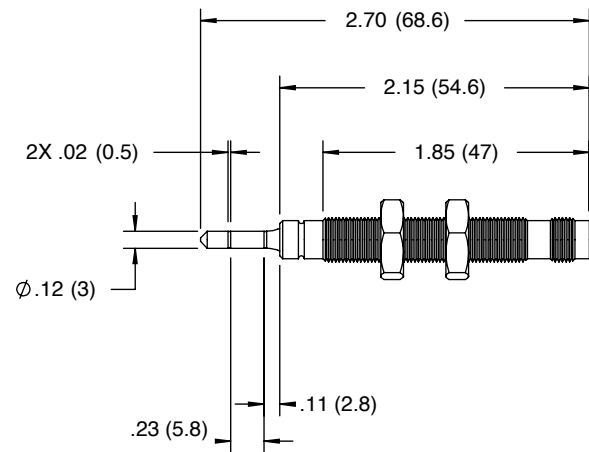
Operating temperature range:

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) ●	SCE13000 6 ft (2m) Straight ●	SAB30403 ●	0.019 lbs / 9 gm
	SMH37004 (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 4.0 mm (.16")
 Maximum blank thickness is 1.6mm (.06")



Technical data

Sensor connector:

3-pin (male) 8mm (pico) connector

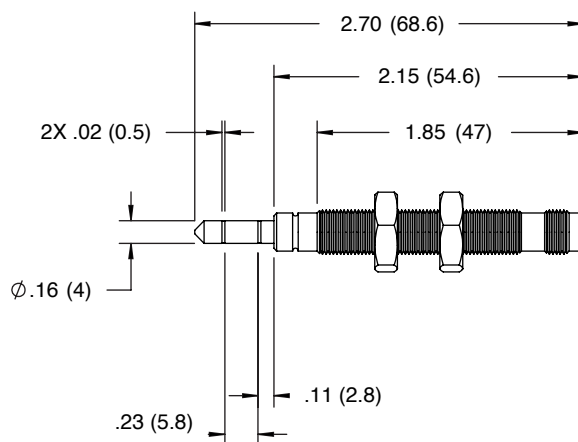
Operating temperature range:

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

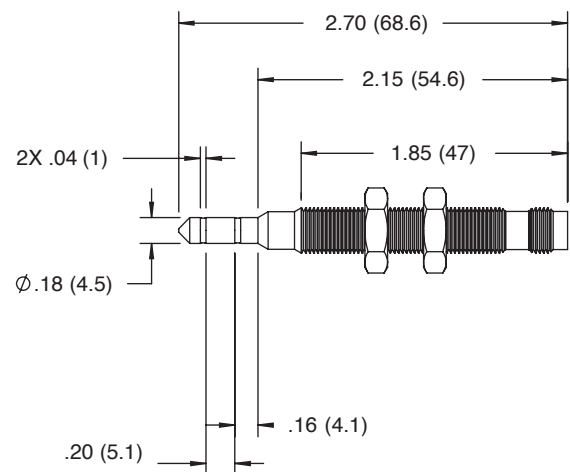
Operating temperature range:

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

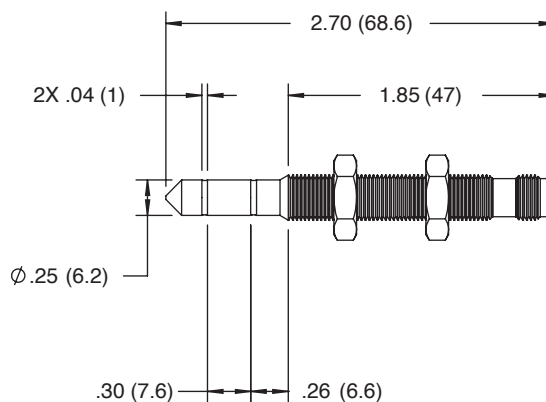
Operating temperature range:

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

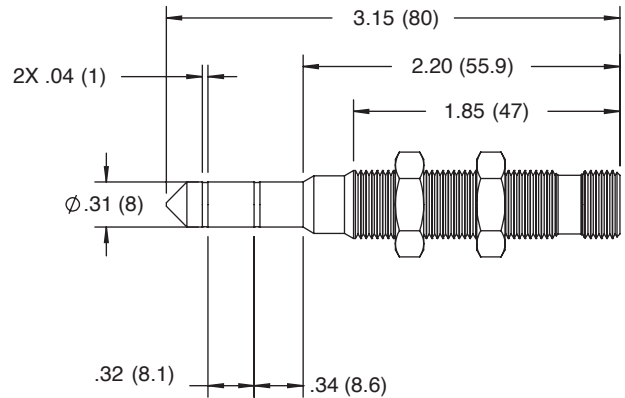
For heavy duty applications with sensor tip radial loads up to 40 lbs.
For use in weld applications
Immune to weld fields and resistant to weld slag.
Can be used to detect thread presence
Minimum nut thickness is 8.0 mm (.31")
Maximum blank thickness is 2.5mm (.10")



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

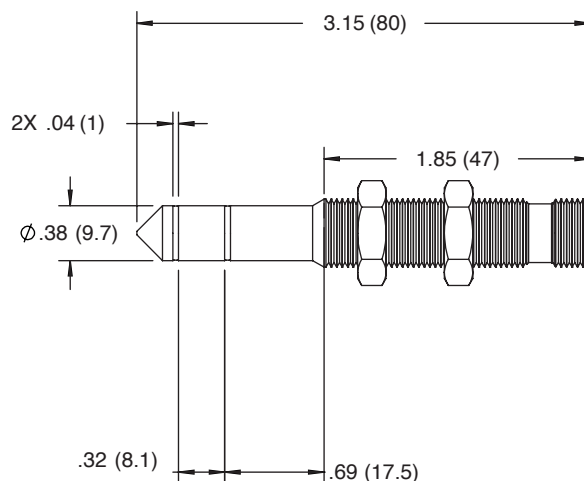
For heavy duty applications with sensor tip radial loads up to 60 lbs.
For use in weld applications
Immune to weld fields and resistant to weld slag.
Can be used to detect thread presence
Minimum nut thickness is 10.0 mm (.39")
Maximum blank thickness is 2.5mm (.10")



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:

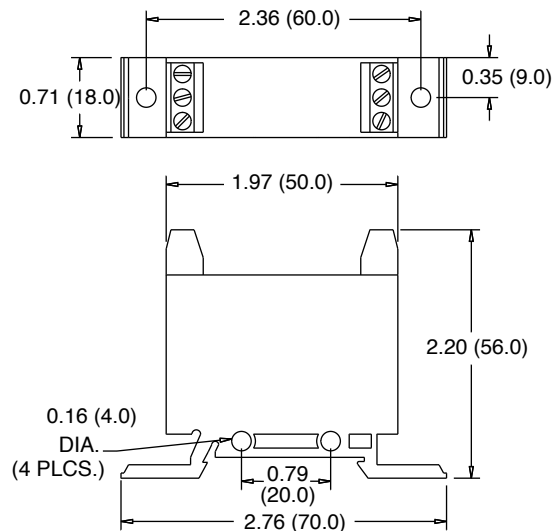
Yes

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

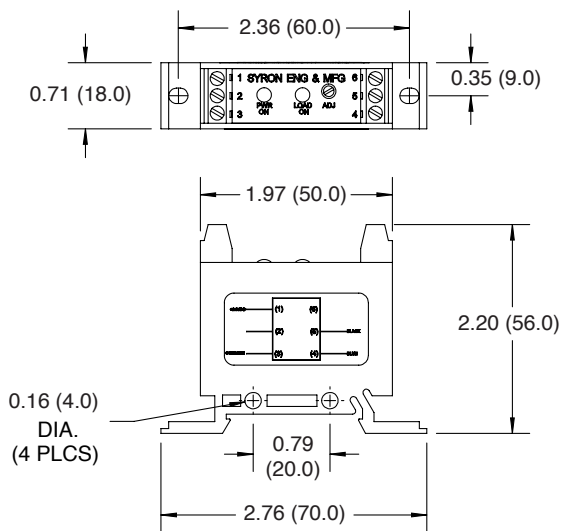
Short circuit protection:
Yes

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.

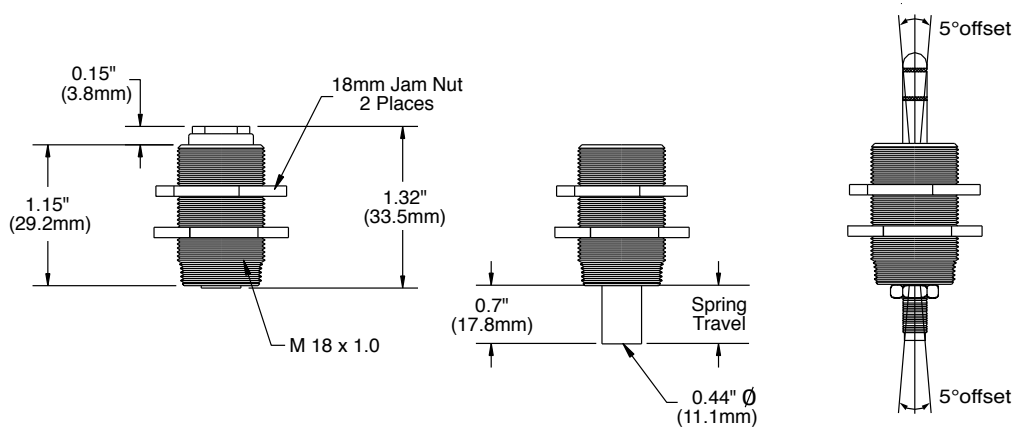
Allows sensor probe to retract when nut is out of place.

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

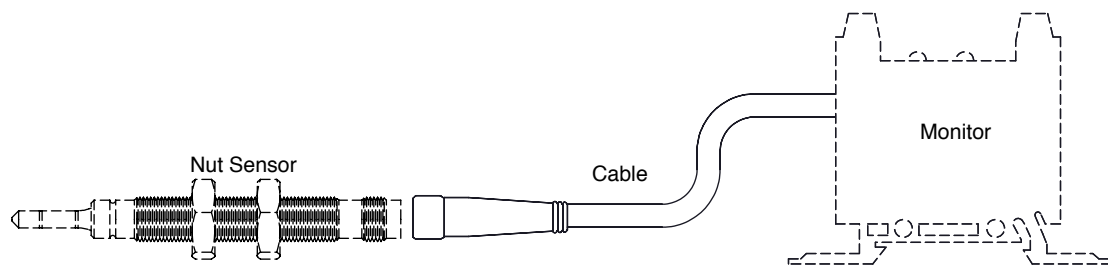
- In stock
- ◆ Ships within one week

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
 SCE13000 ●	3 pin M8	Straight	6 ft (2m) long
SCE13005 ●	3 pin M8	Straight	16 ft (5m) long
 SCE13001 ●	3 pin M8	Angled	6 ft (2m) long
SCE13005RA ●	3 pin M8	Angled	16 ft (5m) long
 SCF12060 ●	4 pin M12	Straight	6 ft (2m) long
 SCF12160 ●	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>Modular system Box sets 1/4" to 3/4"</p>  <p>APP-05</p>	<p>General purpose filters F72G, F73G, F74G 1/4" to 3/4"</p>  <p>APP-06</p>	<p>Oil removal filters F72C, F73C, F74C, F74H 1/4" to 3/4"</p>  <p>APP-08</p>	<p>Oil vapor removal filters F72V, F74V 1/4" to 3/4"</p>  <p>APP-10</p>	<p>Manifold regulators R72M, R74M 1/4" and 1/2"</p>  <p>APP-11</p>	<p>Pressure regulators R72G, R73G, R74G 1/4" to 3/4"</p>  <p>APP-12</p>
<p>Filter/regulators B72G, B73G, B74G 1/4" to 3/4"</p>  <p>APP-14</p>	<p>Lubricators L72, L73, L74 1/4" to 3/4"</p>  <p>APP-16</p>	<p>Pressure relief valves V72G, V74G 1/4" to 3/4"</p>  <p>APP-18</p>	<p>Lockout valves T72, T73, T74 1/4" to 3/4"</p>  <p>APP-19</p>	<p>Soft start/dump valves P72F, P74F 1/4" to 3/4"</p>  <p>APP-20</p>	<p>Filter-Regulator-Lubricator combination units 3/8", 1/2"</p>  <p>APP-21</p>
<p>Filter/regulator-lubricator combination units</p>  <p>APP-22</p>	<p>Excelon® W74D Desiccant Compressed Air Dryer 3/8", 1/2" <i>new*</i></p>  <p>APP-23</p>				

OLYMPIAN PLUS PLUG-IN SYSTEM

<p>Filter/regulator and lubricator BL64 G1/2" <i>new*</i></p>  <p>APP-25</p>	<p>General purpose filters F64G, F68G No yoke <i>new*</i></p>  <p>APP-26</p>	<p>Oil vapor removal filters F64B No yoke <i>new*</i></p>  <p>APP-28</p>	<p>Filter/regulators B64G, B68E/G No yoke <i>new*</i></p>  <p>APP-30</p>	<p>Regulators R64G, R68G No Yoke <i>new*</i></p>  <p>APP-32</p>	<p>Lubricators L64M/C, L68M/C No yoke <i>new*</i></p>  <p>APP-34</p>
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MINIATURE SERIES, GENERAL PURPOSE

<p>Filter/regulators-lubricators PTH 1/8" and 1/4"</p>  <p>APP-36</p>	<p>General purpose filter F07 1/8", 1/4"</p>  <p>APP-37</p>	<p>Oil removal filter F39 1/8", 1/4"</p>  <p>APP-38</p>	<p>Regulators R07, R46 1/8", 1/4"</p>  <p>APP-39</p>	<p>Filter/regulator B07 1/8", 1/4"</p>  <p>APP-40</p>	<p>Lubricators L07 1/8, 1/4</p>  <p>APP-41</p>
<p>Pressure relief valve - diaphragm V07 1/8", 1/4"</p>  <p>APP-42</p>					

**New to this catalog*

Fast Find Guide

MAINLINE SERIES UNITS

<p>P8A Combination units 17 Series 3/4" to 1-1/2"</p>  <p>APP-43</p>	<p>General purpose filters F17 3/4" to 1-1/2"</p>  <p>APP-44</p>	<p>Coalescing filter F46 3/4", 1", 1-1/4"</p>  <p>APP-45</p>	<p>Regulators R17 3/4" to and 1-1/2"</p>  <p>APP-46</p>	<p>Lubricators L17 3/4" to 1-1/2"</p>  <p>APP-47</p>	<p>General purpose filters F18 1-1/2" and 2"</p>  <p>APP-48</p>
<p>Pilot operated regulators R18 1-1/2" and 2"</p>  <p>APP-49</p>					

SPECIAL PURPOSE

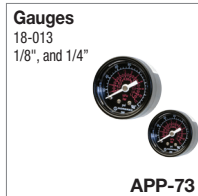
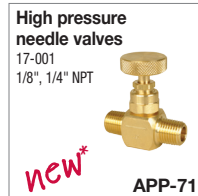
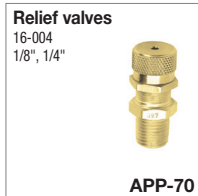
<p>'Micro Trol' special purpose pressure regulators R24 1/4" to 1-1/4"</p>  <p>APP-50</p>	<p>Precision regulators 11-002 1/4" to 1/2"</p>  <p>APP-51</p>	<p>Pilot operated pressure regulator 11-008, 11-042 1/2" to 1-1/4"</p>  <p>APP-52</p>	<p>Conventional and Feedback pilot regulators R40, R41 1/4"</p>  <p>APP-53</p>	<p>Pilot operated regulators 11-104 1/4"</p>  <p>APP-54</p>	<p>Precision pressure regulators 11-018, R27 1/4"</p>  <p>APP-55</p>
<p>Precision instrument regulator and filter/regulator R38, B38 1/4"</p>  <p>APP-56</p>					

STAINLESS STEEL – GENERAL PURPOSE AND PRECISION

<p>Maxseal IFR3 & IFR4 filter/regulator 1/4", and 1/2"</p>  <p>APP-57</p>	<p>General purpose filter/regulator R38, B38 1/4" PTF</p>  <p>APP-58</p>	<p>General purpose filter/regulator B38 1/2" PTF</p>  <p>APP-59</p>	<p>Filters, pressure regulators, lubricators F22, R22, L22 1/2" NPTF</p>  <p>APP-60</p>	<p>General purpose filter F05 1/4" PTF</p>  <p>APP-62</p>	<p>General purpose regulators & filter-regulator R05, B05 1/4" PTF</p>  <p>APP-63</p>
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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
















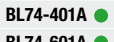



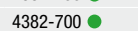
Sight-feed dome: transparent nylon

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:

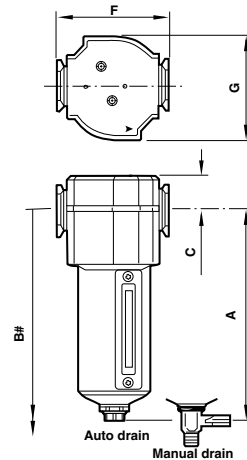
73: Steel

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						
F72G-2AN-AL3	F72G-2AN-QT3	1/4"	Transparent	40 µm	4224-50	4215-02	4214-51	4214-52	4380-500	5925-02
F72G-3AN-AL3	F72G-3AN-QT3	3/8"	Transparent	40 µm	4224-50	4215-03	4214-51	4214-52	4380-500	5925-02
		1/4"	Metal	40 µm						
F72G-2AN-AE3	F72G-2AN-QD3	1/4"	Metal	40 µm	4224-50	4215-02	4214-51	4214-52	4380-500	5925-02
F72G-2AN-AE3	F72G-2AN-QD3	3/8"	Metal	40 µm	4224-50	4215-03	4214-51	4214-52	4380-500	5925-02
F72G-2AN-AE1	F72G-2AN-QE1	1/4"	Metal - Long	5 µm	4224-50	4215-02	4214-51	4214-52	4380-500	5925-03

















* 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/m³ 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

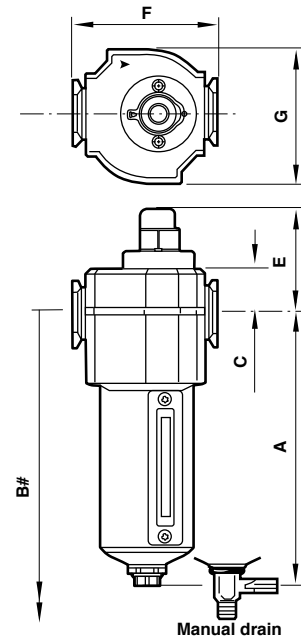
Mechanical service indicator

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
											
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 ●
											
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 ●
											
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 ●
											
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 ●
											
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.

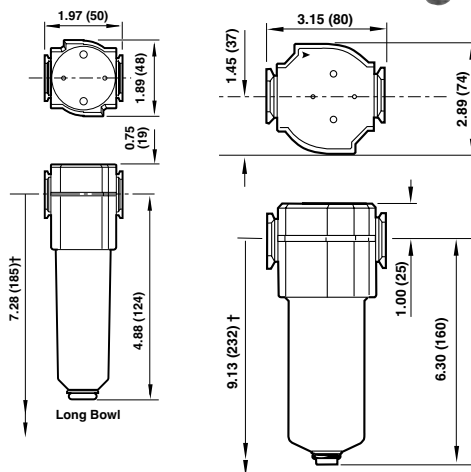
Maximum remaining oil content in outlet air:

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 **SCFM**

R72M 83

R74M 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

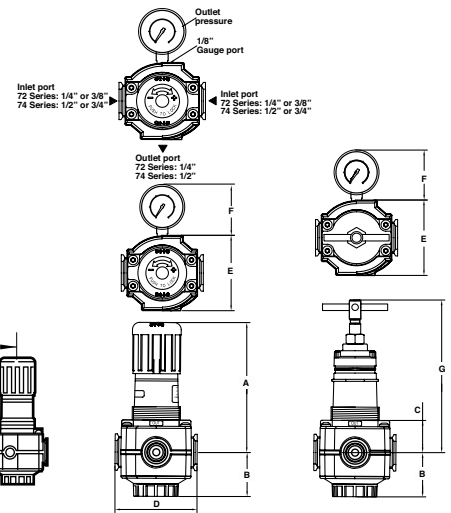
Body and bonnet: Aluminum

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†
										
R72M-2AK-RMN	1/4"	1/4"	4224-50	4215-02	4214-51	4214-52	74316-50	4255-51	18-013-273	4381-500
R72M-2AK-RMG	1/4"	1/4"	4224-50	4215-02	4214-51	4214-52	74316-50	4255-51	Gauge included	4381-500
R72M-3AK-RMN	3/8"	1/4"	4224-50	4215-03	4214-51	4214-52	74316-50	4255-51	18-013-273	4381-500
R72M-3AK-RMG	3/8"	1/4"	4224-50	4215-03	4214-51	4214-52	74316-50	4255-51	Gauge included	4381-500
										
R74M-4AK-RMN	1/2"	1/2"	4324-50	4315-03	4314-51	4314-52	4368-51	4355-51	18-013-273	4381-700
R74M-4AK-RMG	1/2"	1/2"	4324-50	4315-03	4314-51	4314-52	4368-51	4355-51	Gauge included	4381-700
R74M-6AK-RMN	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

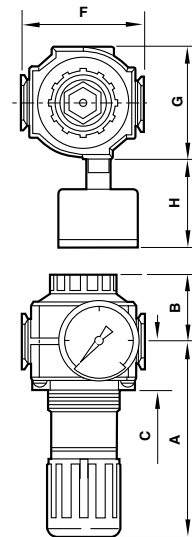
Valve: Polypropylene and Geolast®

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 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.



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) droop 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	Quickclamp	Quickclamp 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	Quickclamp	Quickclamp 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

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.

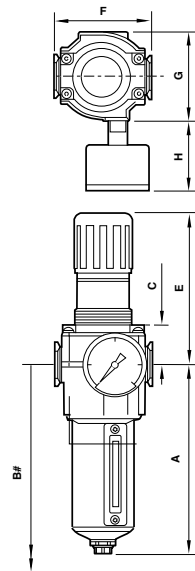
NOTE: Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

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



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

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

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).

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

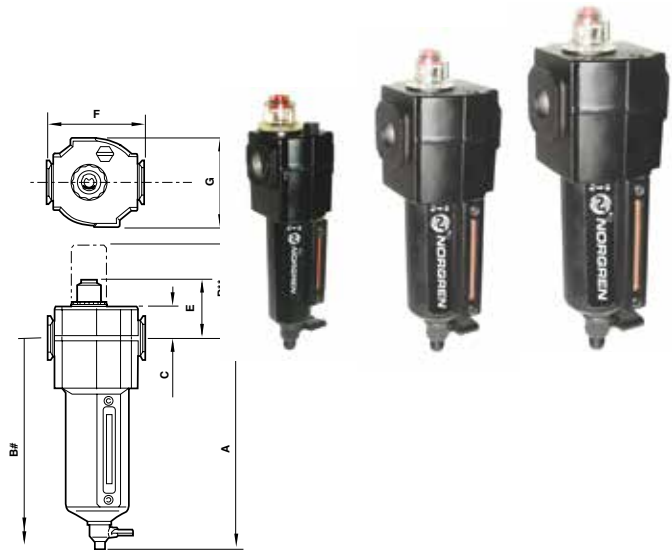
L73, L74

Body: aluminum
Metal bowl: aluminum
Elastomers: CR & nitrile

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.

















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

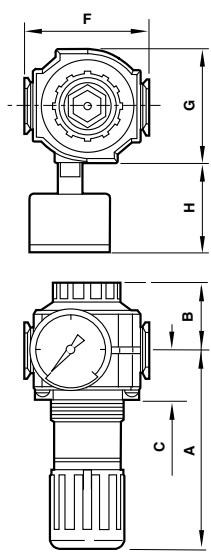
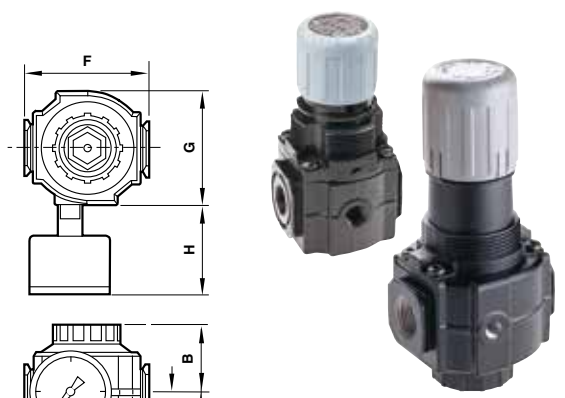
V74G

Body & bonnet: aluminum

Valve: aluminum and nitrile

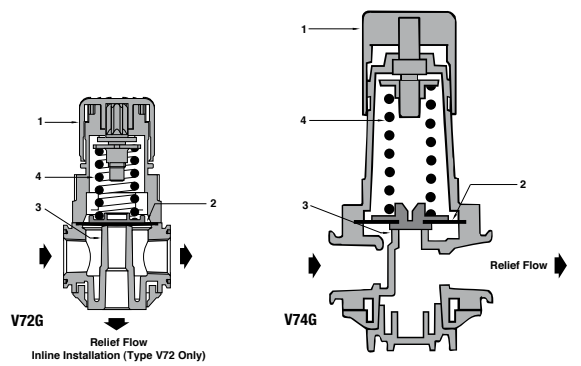
Diaphragm: CR

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

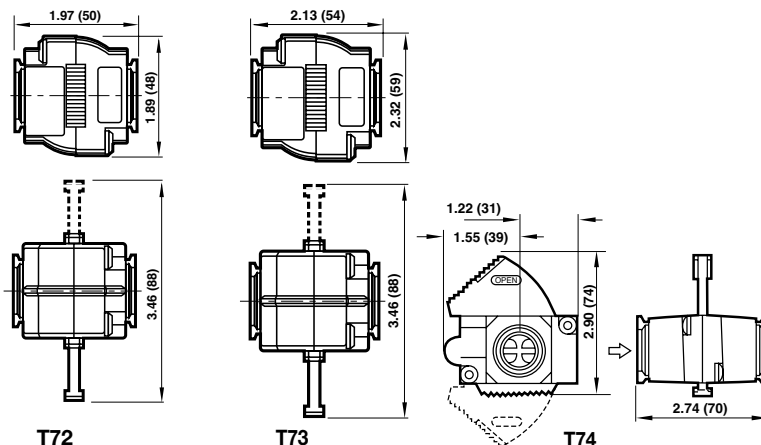
Slide: Acetal plastic

Elastomers: Nitrile



T72 and T73

T74



Models

Model No. Port size PTF

Accessories

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 ●

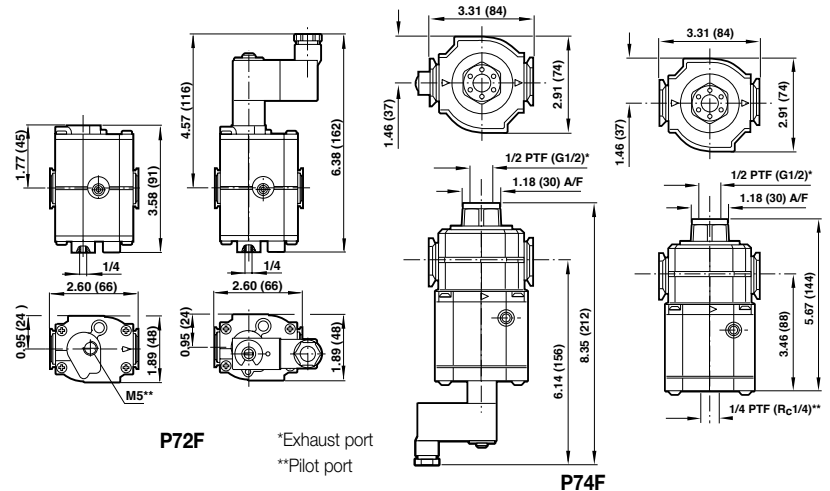
● In stock

◆ 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.**



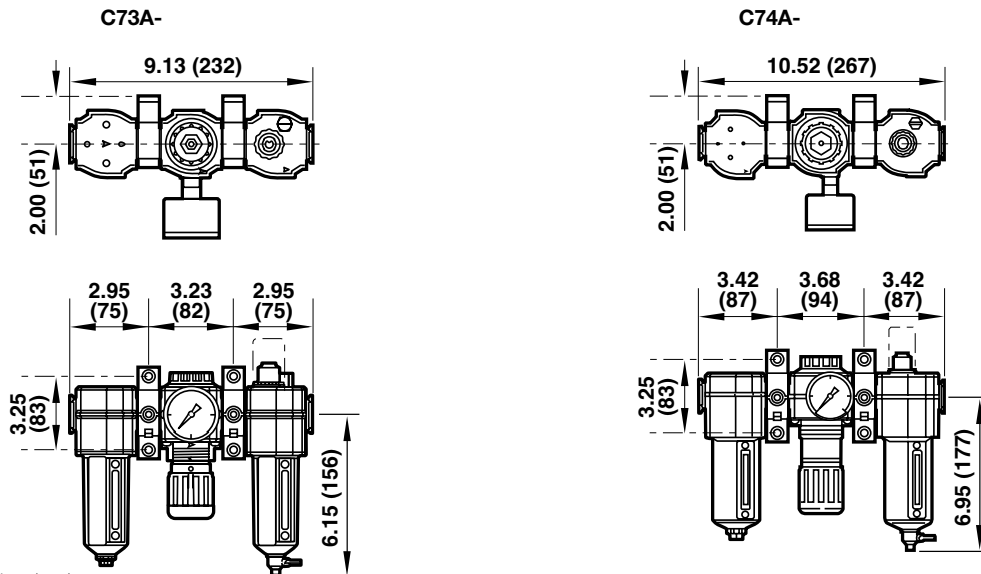
Technical data

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"	-	C73A-3AK-AD3-RMG-QDN ●	-	4.36 (1.98)
Filter-Regulator-Lubricator	1/2"	C73A-4AK-QD3-RMG-QDN ●	-	-	4.36 (1.98)
Filter-Regulator-Lubricator	1/2"	-	-	C74A-4AK-AD3-RMG-QDB ●	6.04 (2.74)
Filter-Regulator-Lubricator	1/2"	-	C74A-4AK-AD3-RMG-QDN ●	-	6.04 (2.74)
Filter-Regulator-Lubricator	1/2"	C74A-4AK-QD3-RMG-QDN ●	-	-	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



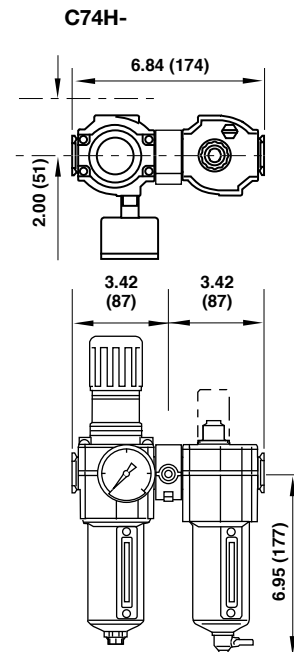
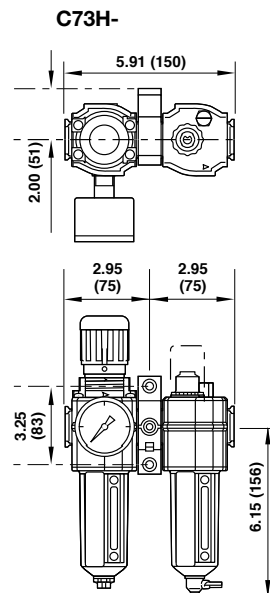
Technical data

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

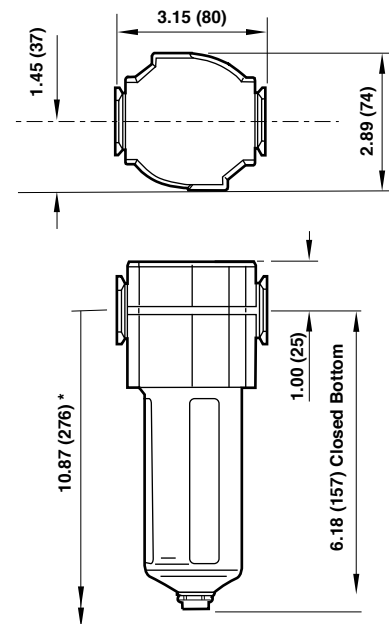
Bowl: Polycarbonate with steel bowl guard

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

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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

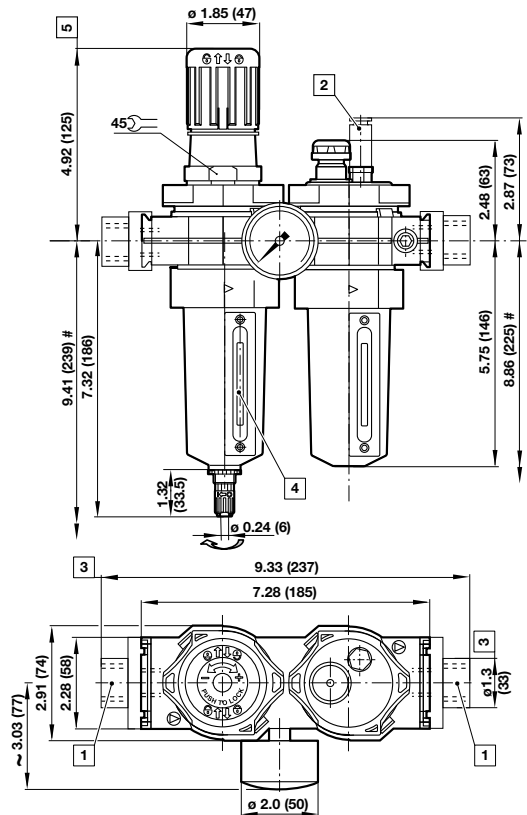
Metal bowl: Aluminum

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 ³ /s)	Weight lb (kg)
					
No yoke	F64G-NNN-AD3 ●	F64G-NNN-QD3 ●	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)




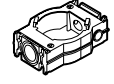
Port Size	Model auto drain 1 qt (1 liter bowl)	Filtration	Flow† scfm (dm ³ /s)	Weight lb (kg)
				
No yoke	F68E-NNN-AU3 ●	40 µm	403 (190)	5.14 (2.33)

† 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

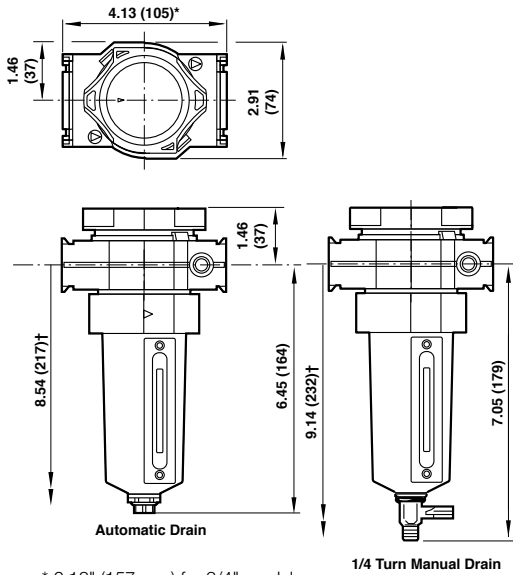
◆ Ships within one week

Accessories

Series	Size	Bracket kit	Bracket kit	3/2 Shut-off valve PTF threads	Single Yoke
					
F64G	1/4		74504-50 ●		Y64A-2AA-N1N ●
	3/8		74504-50 ●		Y64A-3AA-N1N ●
	1/2		74504-50 ●	T64E-4AB-P1N ●	Y64A-4AA-N1N ●
F68G	3/4	18-001-979 ●	–		Y68A-6AN-N1N ●
	1	18-001-979 ●	–	T68E-8AB-B2N ●	Y68A-8AN-N1N ●
	1-1/4	–	–		Y68A-AAN-N1N ●
	1-1/2	–	–		Y68A-BAN-N1N ●

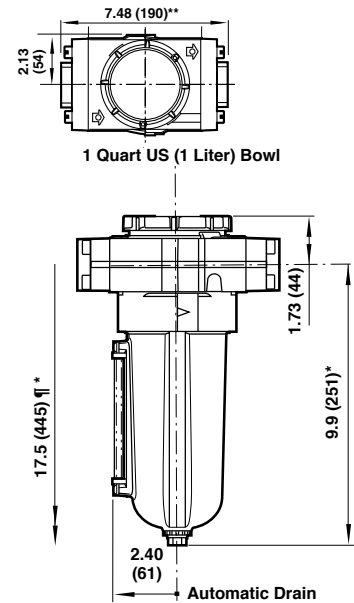
Dimensions in inches (mm).

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/m³ 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 ³ /s)	Weight lb (kg)
					
No yoke	F64B-NNN-ATO ●	F64B-NNN-ARO ●	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.

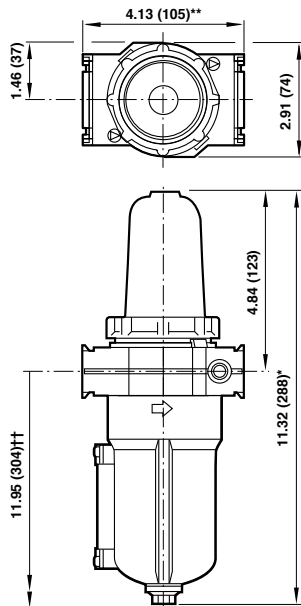
● In stock

◆ Ships within one week

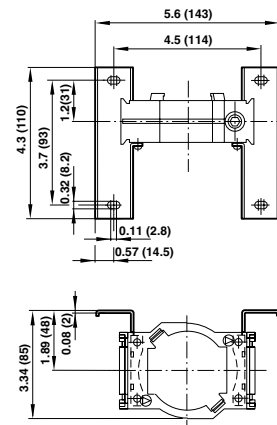
Accessories

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



Mounting bracket (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.

- 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 ³ /s)	Weight lb (kg)
					
No yoke	B64G-NNK-AD3-RMN ●	B64G-NNK-QD3-RMN ●	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 ³ /s)	Weight lb (kg)
					
No yoke	B68E-NAK-QU3-RLN ●	B68E-NAK-AU3-RLN ●	40 µm	509 (240)	7.25 (3.29)

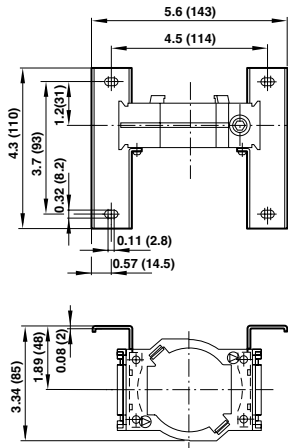
● In stock

◆ Ships within one week

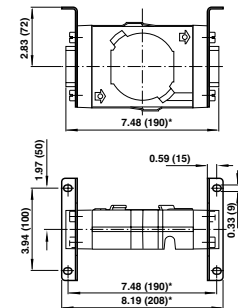
Accessories

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 ●

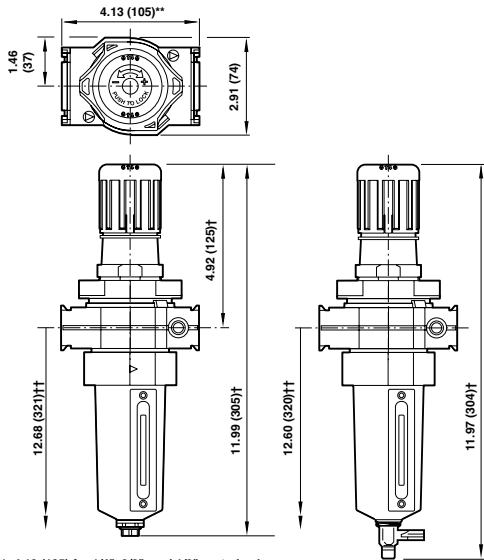
Mounting bracket
(B64G)



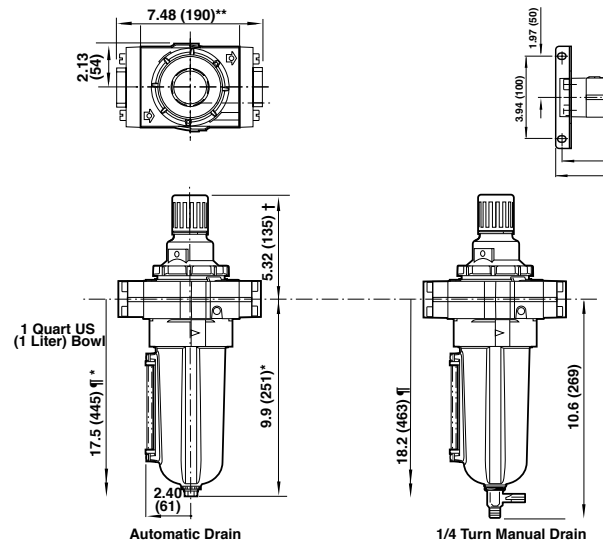
Mounting bracket (B68G)



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	R64G-NNK-RMN ●	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	R68G-NAK-RLN ●	Relieving	PTF	Knob	5.8 to 116 (0.4 to 8)	2.6 (1.16)
No yoke	R68G-NNK-RLN ●	Relieving	ISO Rc	Knob	5.8 to 116 (0.4 to 8)	2.6 (1.16)

● In stock

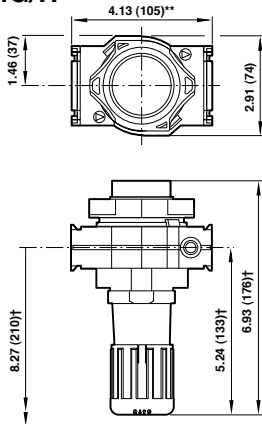
◆ Ships within one week

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 ●
	1-1/2	–	–	18-013-204 ●	Y68A-8AN-N1N ●	4355-51 ●

* For additional pressures and options see our website.

R64G/R

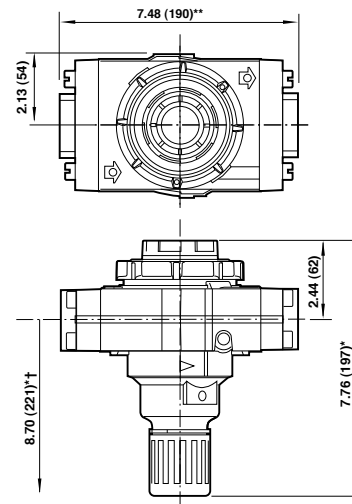


† Reduces by 4 mm with knob in locked position.
Add 37 mm for unit with 'T' handle.
** 6.18" (157 mm) for models with 3/4" ports

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)
					
L64C-NNP-QDN ●		No yoke	1/4 turn manual	7 oz. metal with liquid level indicator	2.6 (0.94)
	L64M-NNP-EDN ●	No yoke	Closed bottom	7 oz. metal with liquid level indicator	2.6 (0.94)
	L64M-NNP-QDN ●	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)
				
L68M-NNP-QUN ●	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

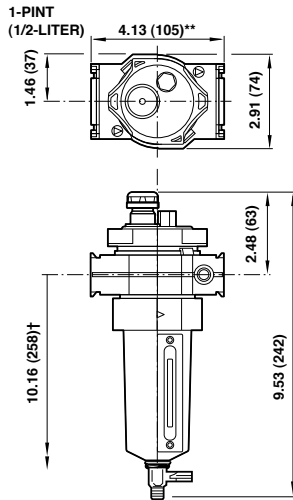
◆ Ships within one week

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 ●

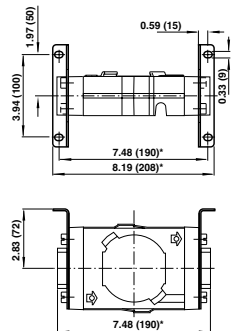
Optional 1 quart US (1 liter) bowl

L64



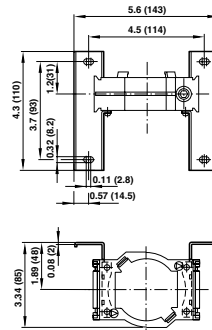
**6.18" (157) for models with 3/4" ports.
† Minimum clearance required to remove unit.

Mounting bracket (L68)

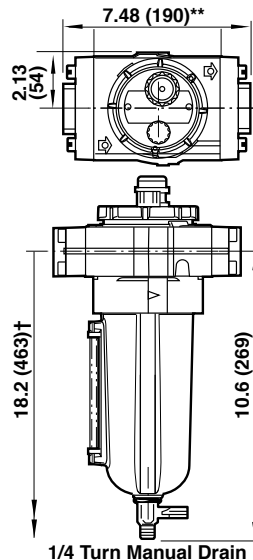


Dimensions in inches (mm)

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 dm³/s)

1/4" ports: 14 scfm (7 dm³/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 dm³/s) at 90 psig (6.3 bar) inlet pressure

Nominal bowl capacity:

1 fluid ounce (31 ml)

Materials:

Bodies: Zinc

Filter/Regulator bonnet: Acetal

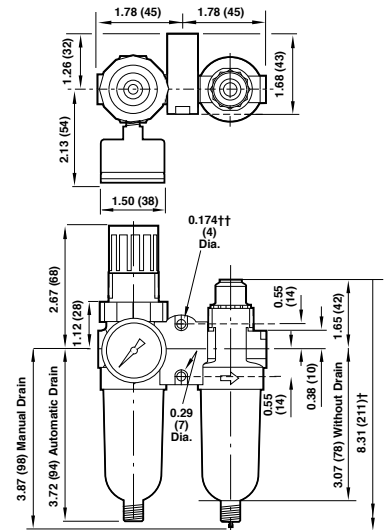
Filter/Regulator valve seat: Acetal

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

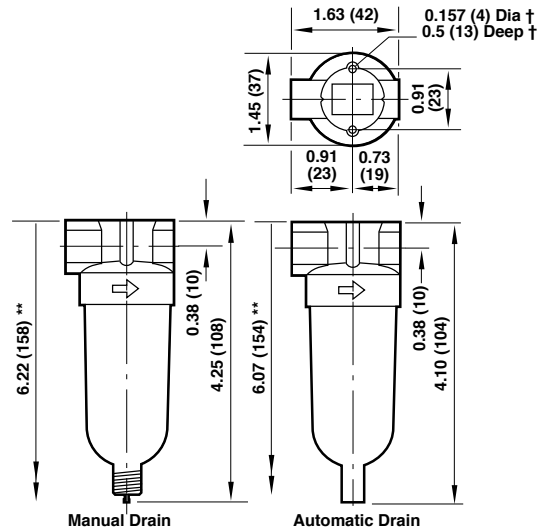
Body: zinc

Transparent bowl: Polycarbonate

Metal bowl: Zinc (without sight glass)











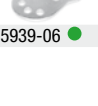
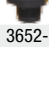
Element: sintered polypropylene

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

F39 100 6

F39 200 6.4

** Typical flow at 90 psig inlet pressure to maintain stated oil removal performance.

Materials

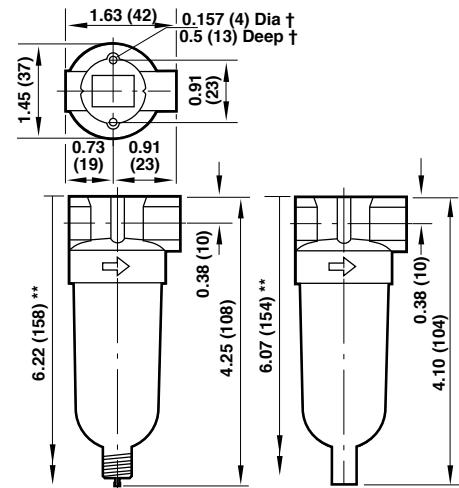
Body: Zinc

Transparent bowl: Polycarbonate







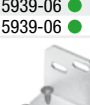

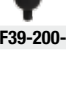
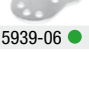

Metal bowl: Zinc

Element: Synthetic fiber and polyurethane foam

Elastomers: CR & nitrile



Models

Models		Accessories			
F39 Autodrain Model No.	F39 Manual Drain Model No.	Port size PTF	Bowl type	Wall mounting bracket	Service kit**
		1/8"	Transparent		
F39-100-A0TA ●	F39-100-M0TA ●	1/8"	Transparent	5939-06 ●	F39-KITOC ●
		1/4"	Transparent		
F39-200-A0TA ●	F39-200-M0TA ●	1/4"	Transparent	5939-06 ●	F39-KITOC ●
	—	1/4"	Metal		
F39-200-A0MA ●	—	1/4"	Metal	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

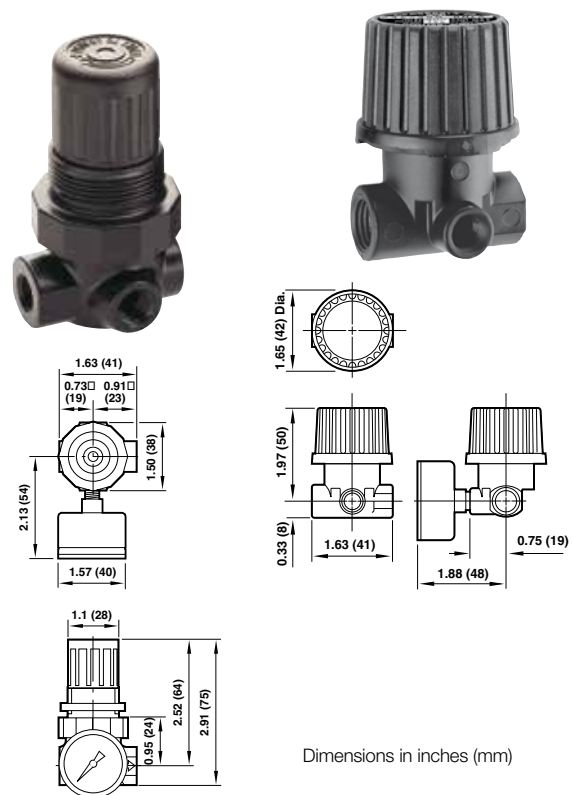
Standard relieving models allow reduction of outlet pressure even when the system is dead-ended

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



Dimensions in inches (mm)

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.

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)

Flow**

Model	SCFM
B07 10	13
B07 20	14

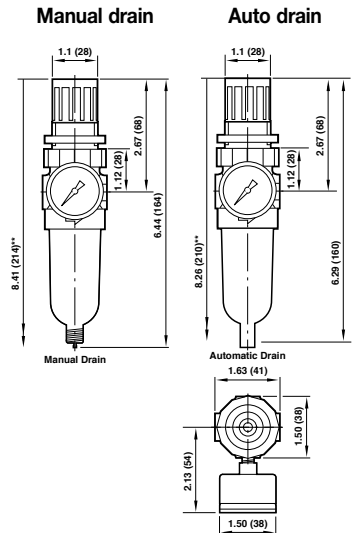
** Typical flow with 100 psig inlet pressure, 90 psig set pressure and a 15 psig droop from set.

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

Particle removal
5 µm



** Minimum clearance required to remove bowl
Dimensions in inches (mm)

Models

Accessories

B07 Auto Drain Model No.	B07 Manual Drain Model No.	Port size PTF	Bowl 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**
		1/8"	Transparent						
B07-101-A1KA	B07-101-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
		1/4"	Metal						
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

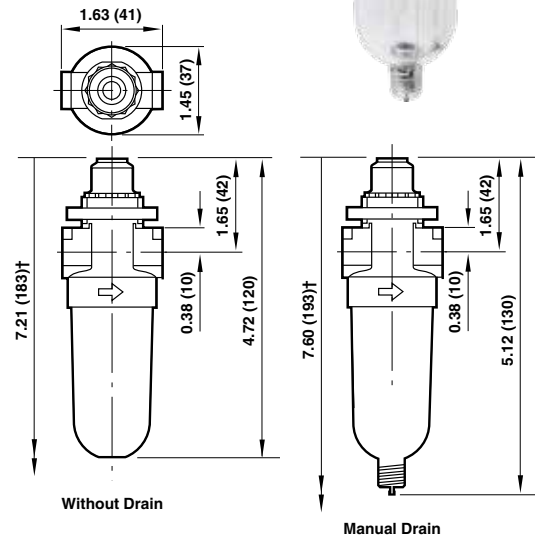
Flow**

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 dm³/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

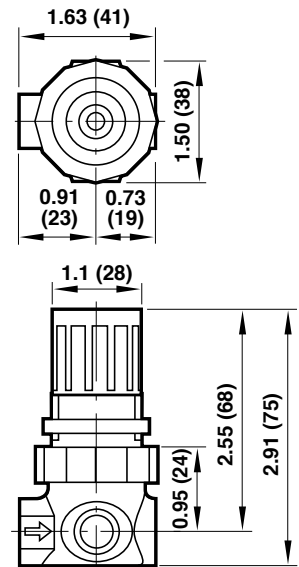
Materials:

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
V07-100-NNKA ●	1/8"	5 to 100	18-025-003 ●	MB001A ●	18-013-212 ●	V07-KIT ●
V07-200-NEEA ●	1/4"	5 to 50	18-023-003 ●	MB001A ●	18-013-212 ●	V07-KIT ●
V07-200-NNKA ●	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 dm³/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

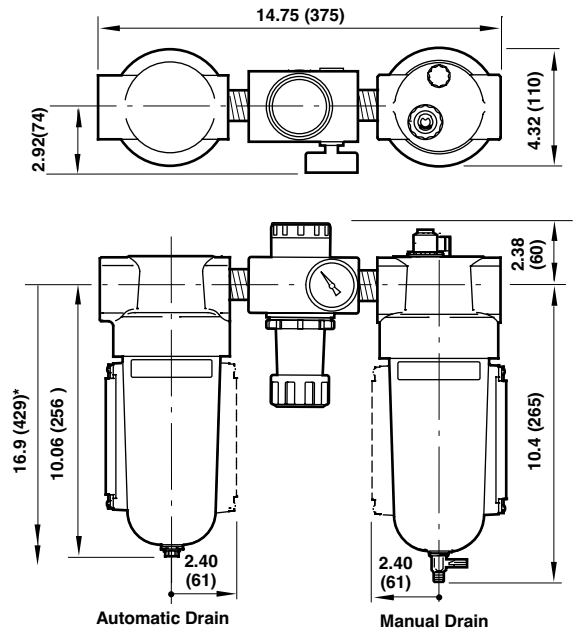
Lubricator sight-feed dome:

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.

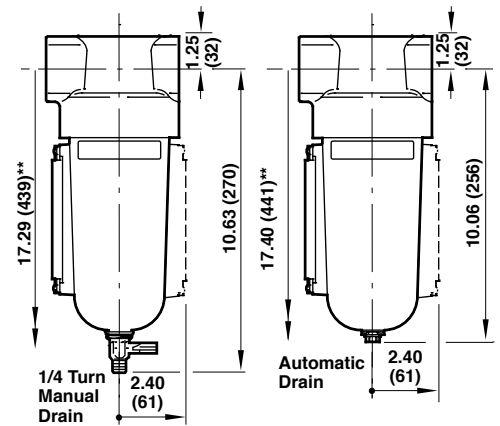
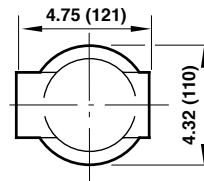
Materials

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

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

* Filter elements are sintered bronze

** Kit includes: Bowl O-ring, drain gasket, element gasket

● 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

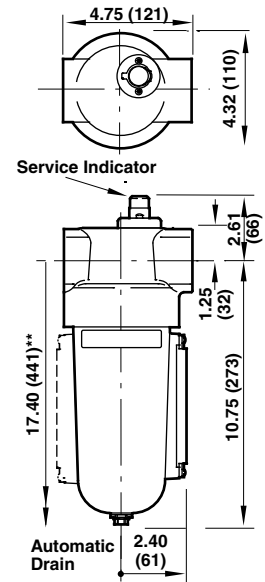
Body: Aluminum

Bowl: Aluminum

Bowl sight glass: Pyrex





Elastomers: CR and nitrile

Filter element: Synthetic fiber and polyurethane foam



Dimensions in inches (mm)

Models

F46 Series Auto Drain Model No.	Port size PTF	Wall mounting bracket	Sight feed dome	Service kit*
				
F46-601-A0DA ●	3/4"	6212-50 ●	5797-50 ●	5351-04 ●
F46-801-A0DA ●	1"	6212-50 ●	5797-50 ●	5351-04 ●
F46-A01-A0DA ●	1-1/4"	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

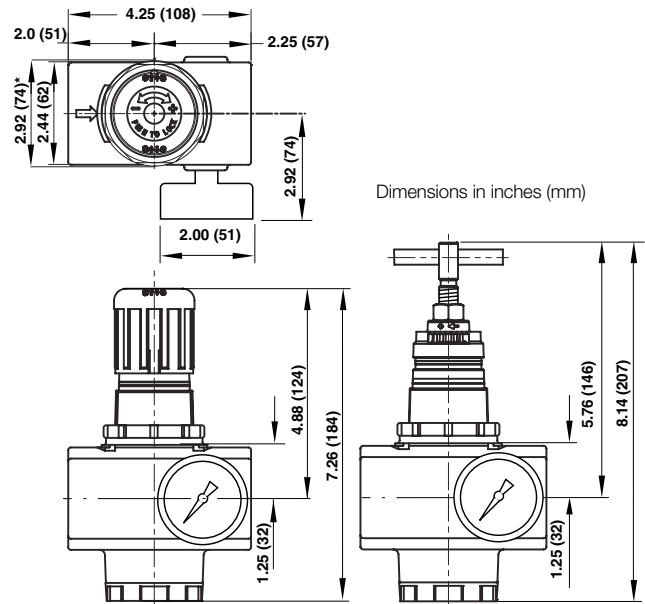
Body: Aluminum

Bonnet: Aluminum

Bottom plug: Acetal

Valve: Aluminum and nylon

Elastomers: Nitrile



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 ●	18-013-209 ●	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 dm³/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

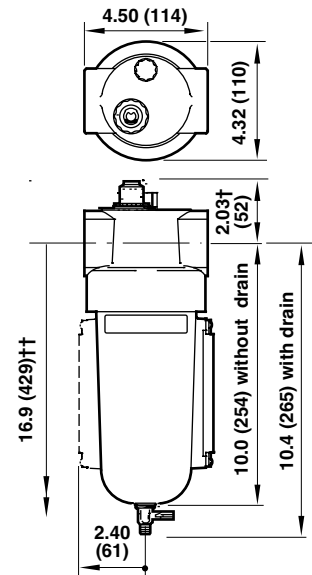
Sight-feed dome

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

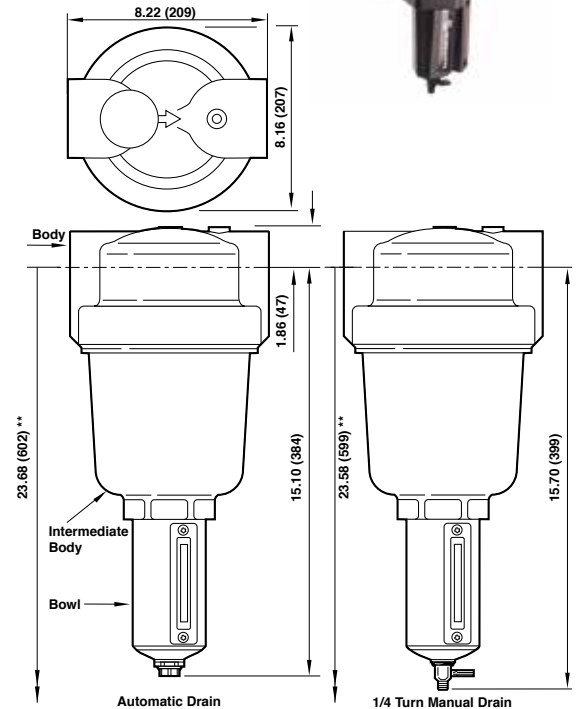
Bowl: Aluminum

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

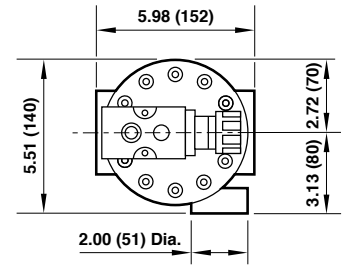
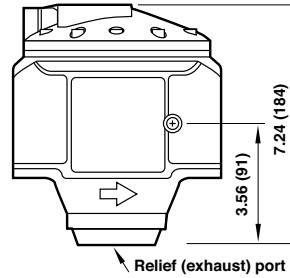
The R18 remote pilot operated regulator can be installed at any point in the compressed air system – pilot regulator can be installed in the most convenient location

The R18 with conventional integral pilot enables easy pressure adjustment at the regulator

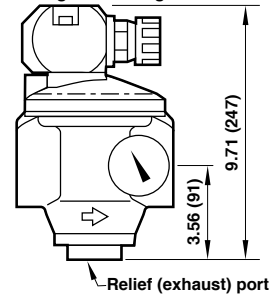
Balanced valve minimizes effect of changes in inlet pressure on outlet pressure

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 dm³/s) †

†Maximum bleed rate occurs under dead-end (no flow) conditions.

Flow††

Model

R24-400	200
R24-A00	700

†† Typical flow with 150 psig inlet pressure, 90 psig set pressure and 15 psig drop from set.

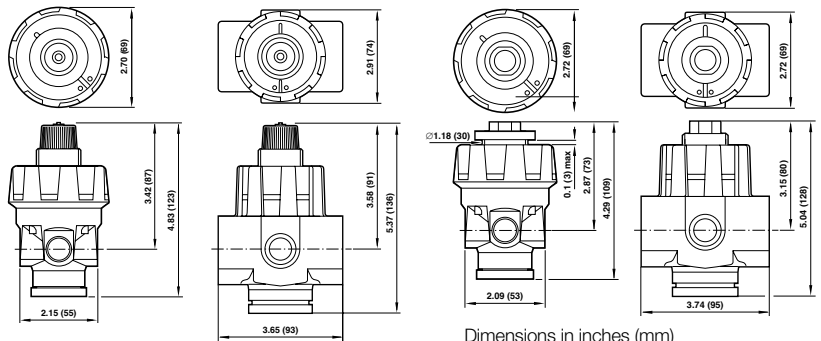
Materials

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

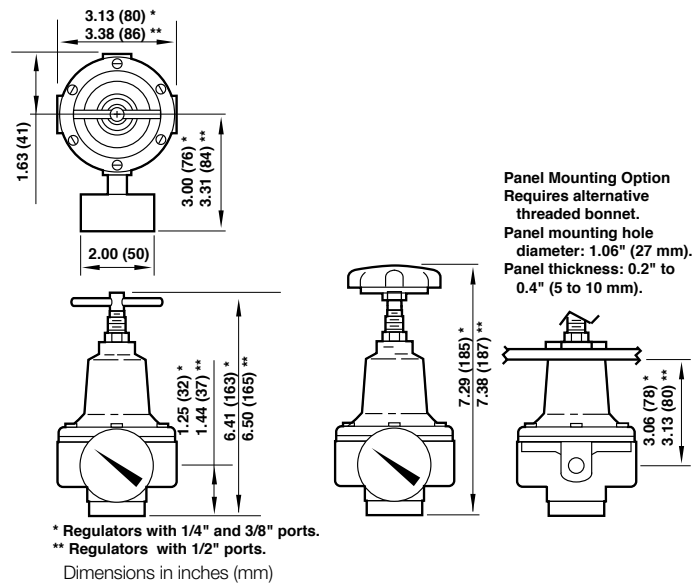
Valve: Brass and nitrile

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

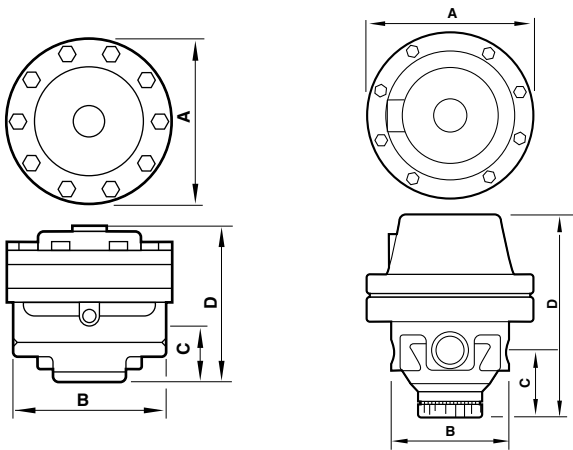
Feedback pilot regulator senses downstream pressure and automatically adjusts pilot operated regulator outlet pressure

Technical data

Fluid: Compressed air	Flow†	
Inlet pressure range:* 10 to 400 psig (0.7 to 27.6 bar) <small>*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.</small>	Model	SCFM
Operating temperature: 0°F to 175°F (-20°C to 80°C)** <small>**Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).</small>	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
	<small>† 100 psig inlet, 90 psig set, and 5 psig droop</small>	

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.


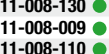
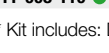
Materials
Body: Zinc
Bonnet: Aluminum
Valve: Brass
Elastomers: Nitrile



Dimensions (inches)




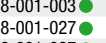

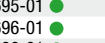
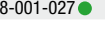


Port Size	A	B	C	D	Port Size	A	B	C	D
1/2"	3.34	3.38	1.50	3.30	1/4", 3/8", 1/2"	4.16	2.71	1.48	5.07
3/4", 1"	4.91	4.63	1.69	4.36	3/4", 1", 1-1/4"	4.16	3.65	1.86	5.97

Models


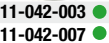
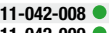
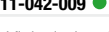
11-008 Series Constant bleed Model No.	Port size PTF	Operation
 11-008-130	1/2"	Relieving
 11-008-009	3/4"	Relieving
 11-008-110	1"	Relieving

* 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 dm³/s)†
†Maximum bleed rate occurs under dead-end (no flow) conditions.

Pilot ports:

1/4" PTF
R41 feedback port: 1/8" PTF

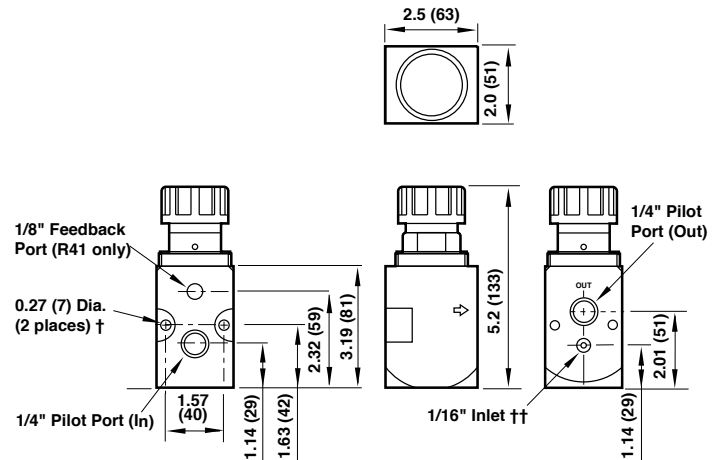
Flow**

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).

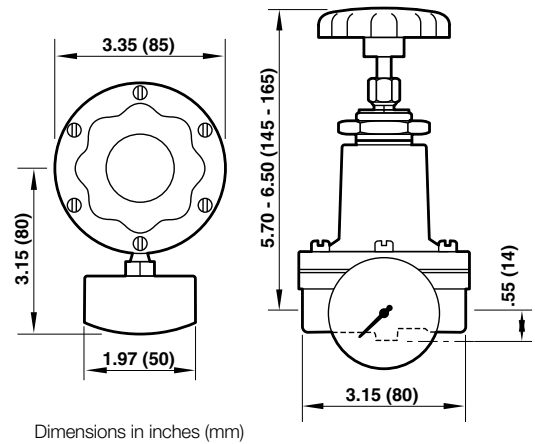
Maximum bleed rate at 50 psig (3.5 bar) outlet pressure:

0.25 scfm (0.12 dm³/s) †

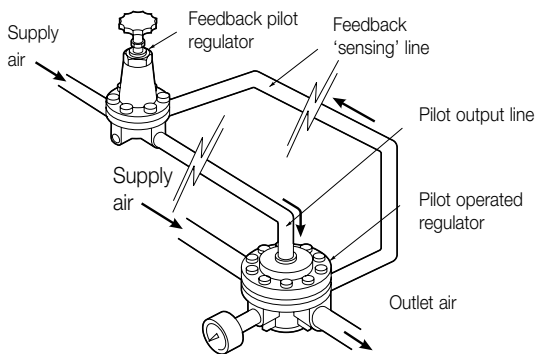
†Maximum bleed rate occurs under dead-end (no flow) conditions.

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 H₂O (2.5 to 10 millibar).

Gauge ports:

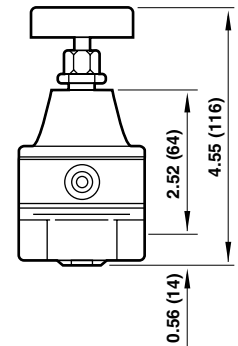
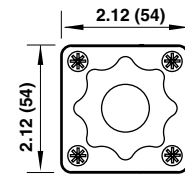
1/4" PTF

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 cm³/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

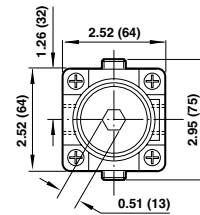
Bonnet: Aluminum

Adjusting screw: Steel

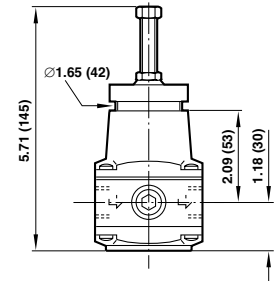
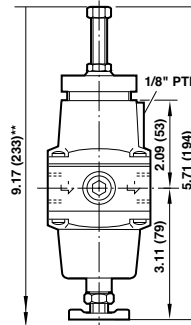
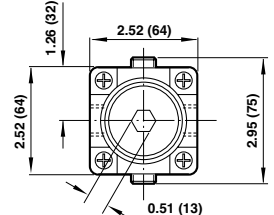
Elastomeric materials: Nitrile



B38




R38




Dimensions in inches (mm)

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

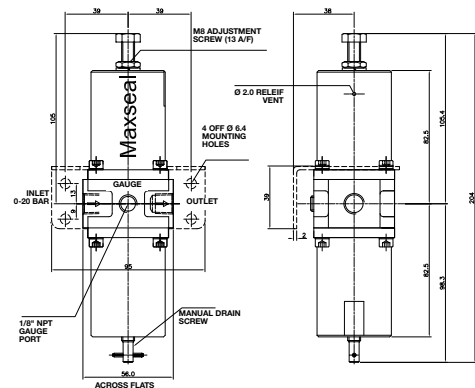
ATEX classification:

Exc - complies with EN13463
 for non-electrical equipment

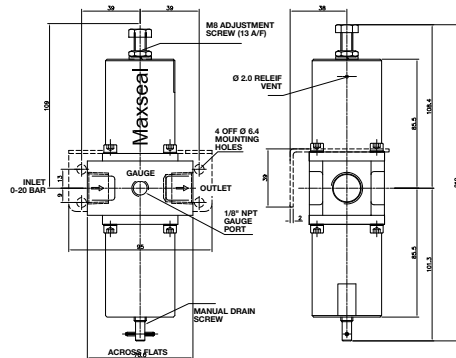
Materials

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

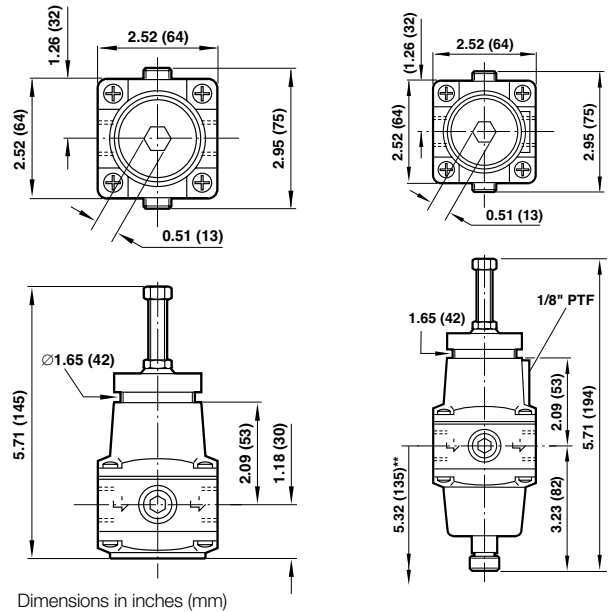
Part number	Outlet pressure psi (bar)	Drain type	Port size NPT	Seat/seal materials	Gauge	Filter element
 YR2ACA1H1BS040	7 to 145 (0.5 to 10)	Manual	1/4	NBR	304/316SS dry, bar & psi	40 to 50 µm
YR2ACA3H1BS040	7 to 145 (0.5 to 10)	Manual	1/2	NBR	304/316SS dry, bar & psi	40 to 50 µm

- 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


Models

R38 Series Model No.	Port size PTF	Outlet pressure range PSIG	Flow SCFM*	Operation
 R38-240-RNCA	1/4"	0.6 to 30	17 (8)	Relieving






Accessories

Mounting bracket and nut	Panel mounting nut	Gauge 0 to 85 psig	Hand-wheel	Service kit**
				
18-001-973	5988-02	18-013-913	74630-04	R38-100R

Models

B38 Series Model No.	Model No. With mounting bracket	Port size PTF	Outlet pressure range PSIG	Flow SCFM*	Operation	Drain	Element
 B38-240-B1KA	B38-242-B1KA	1/4"	4 to 100	17 (8)	Relieving	Manual	5 µm
B38-240-B2KA	-	1/4"	4 to 100	17 (8)	Relieving	Manual	25 µm

Accessories

Mounting bracket and nut	Panel mounting nut	Gauge 0 to 160 psig	Hand-wheel	Service kit**
				
18-001-973	5988-02	18-013-917	74630-04	R38-101R
18-001-973	5988-02	18-013-917	74630-04	R38-101R

* 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

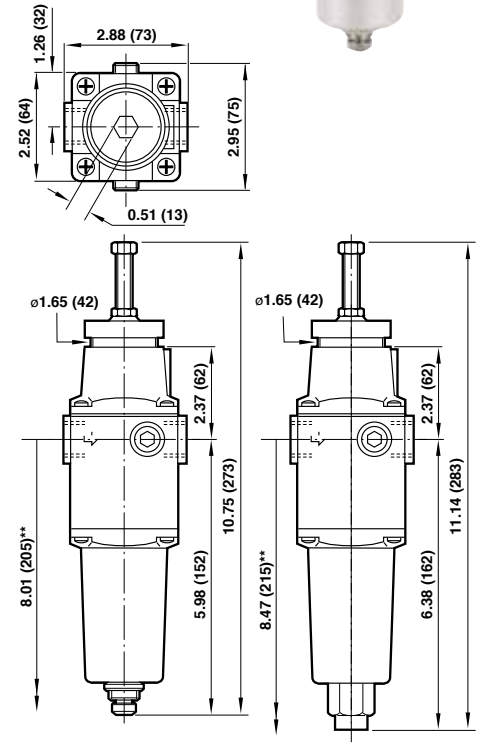
Flow**

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	Mounting bracket and nut	Panel mounting nut	Gauge 0 to 160 psig	Hand-wheel	Element Kit	Service Kit*
B38-440-MILA	1/2"	4 to 125	Relieving	Manual	5 µm	18-001-973	5988-02	18-013-917	74630-04	2787-43	2787-41
B38-440-M2LA	1/2"	4 to 125	Relieving	Manual	25 µm	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 dm³/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

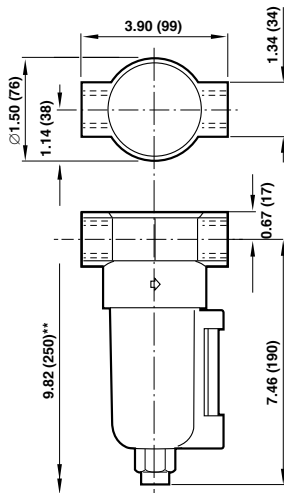
R22† 106

L22†† 102

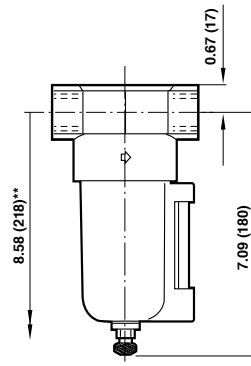
**Typical flow with 25 µm element at 90 psig inlet pressure, and 5 psig pressure drop.

† Typical flow with 150 psig inlet pressure, 90 psig set pressure, and a 15 psig droop from set.

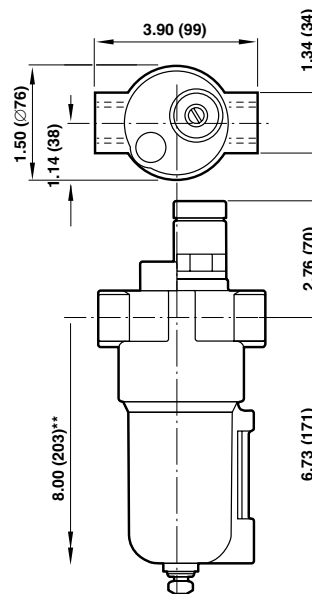
†† Typical flow with 90 psig inlet pressure and 7 psig pressure drop.


F22 Auto Drain


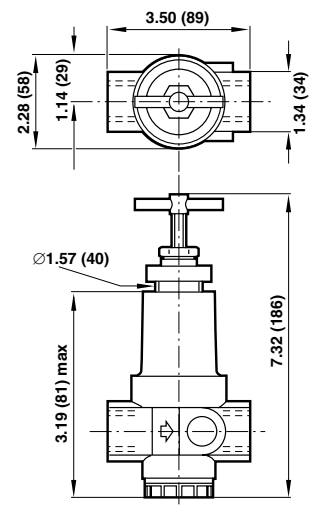
Automatic Drain
**Minimum clearance required to remove bowl

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

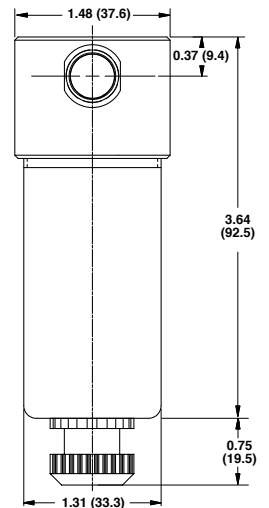
Coalescing Filter: 0.01ppm at 70°F (21°C) with an inlet oil concentration of 17 ppm.

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 ³ /s)	Saturated Flow scfm (dm ³ /s)	Weight lbs (kg)	Element 5 µm
 F05G-2AN-MM1 ●	General Purpose, 5µm	24 (11.5)	-	1 (.96)	 ●
F05C-2AN-DMO ●	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.

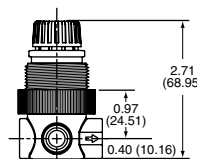
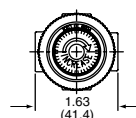
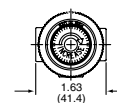
- In stock
- ◆ Ships within one week

- 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**

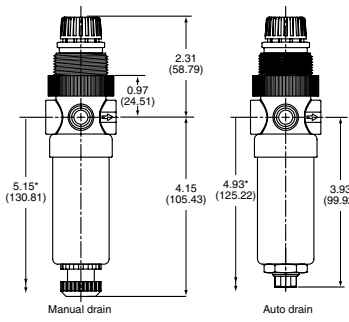
* National Association of Corrosion Engineers - recognised oil-field recommendation for resistance to sulphide stress cracking common in well-head and other corrosive environments.

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.



Dimensions in inches (mm)



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

* 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 dm³/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

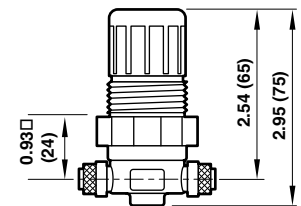
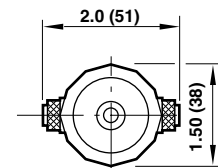
Body: Acetal

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 dm³/s)

Gauge ports:

1/8" PTF

Materials

Body: Brass

Bonnet

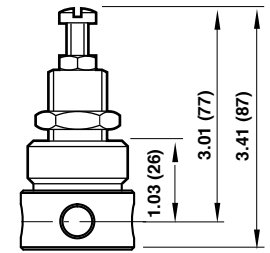
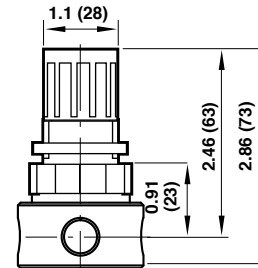
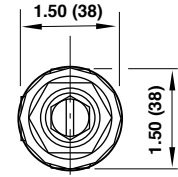
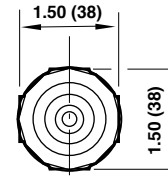
Standard: Acetal resin

Optional: Brass

Valve: Brass/nitrile

Valve seat: Acetal resin


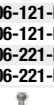


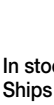

Elastomers: Nitrile






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
 R06-121-NNEA	1/8"	5 to 50 (0.3 to 3.5)	Plastic
 R06-121-NNKA	1/8"	5 to 100 (0.3 to 7)	Plastic
 R06-221-NNEA	1/4"	5 to 50 (0.3 to 3.5)	Plastic
 R06-221-NNKA	1/4"	5 to 100 (0.3 to 7)	Plastic
 R06-122-NNKA	1/8"	5 to 100 (0.3 to 7)	Brass
 R06-222-NNKA	1/4"	5 to 100 (0.3 to 7)	Brass

Accessories

Neck mounting bracket	Mounting nut	Service Kit*
 18-025-003	 2962-89	 3407-17
18-025-003	2962-89	3407-17
18-025-003	2962-89	3407-17
18-025-003	2962-89	3407-17
18-001-021	616-01	3407-17
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

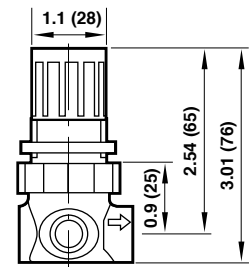
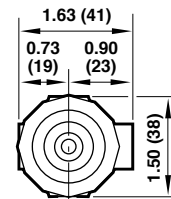
Valve: Stainless steel/food grade EPDM

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*
 R91W-2AK-NEN ●	1/4"	5 to 50	1.75			
R91W-2AK-NLN ●	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:

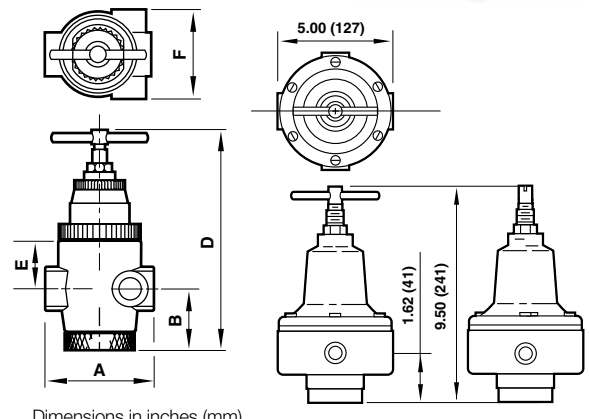
Body: Brass

Bonnet: Aluminum

Valve: Brass

Bottom plug: Brass

Elastomers: Nitrile





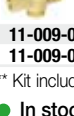


Dimensions in inches (mm)



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



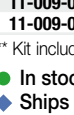
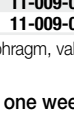
R43 Series Model No.	Port connection PTF	Outlet pressure adjustment range psig
 R43-201-NNLA ●	1/4"	5 to 125 ●
 R43-301-NNLA ●	3/8"	5 to 125 ●
 R43-406-NNEA ●	1/2"	5 to 50 ●
 R43-406-NNLA ●	1/2"	5 to 125 ●
 R43-406-NNSA ●	1/2"	15 to 250 ●

Accessories


Mounting bracket with nut	Service kit**
 5203-05 ●	 5298-03 ●
5203-05 ●	5298-03 ●
5203-05 ●	5298-10 ●
5203-05 ●	5298-10 ●
5203-05 ●	5298-10 ●

** Kit includes: Diaphragm, O-rings, valve, valve spring

Models

11 009 Series Model No.	11-009 with gauge	Port connection PTF
 11-009-065 ●	 11-009-073 ●	3/4"
 11-009-081 ●	 11-009-089 ●	1"

Accessories

Service kit**
 2436-03 ●
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

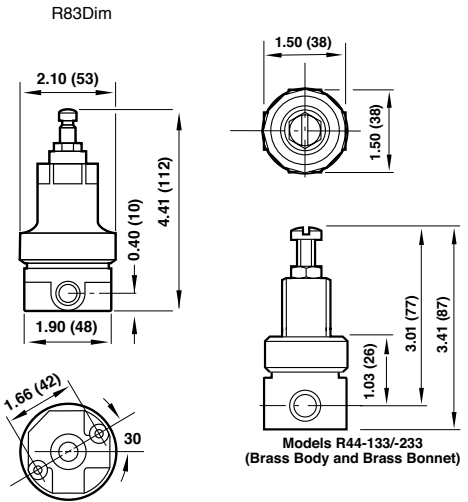
Technical data

R44	Flow	
Fluid:	Model	SCFM
Compressed air, carbon dioxide, inert gases	R44**	10
	R83†	11
Maximum pressure:	** 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.	
Operating temperature:		
-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


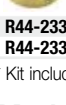
Fluid: Air, argon, carbon dioxide, krypton, neon, nitrogen, and xenon. For use with other gases, including oxygen, consult Norgren.
NOTE: Do not use the R83 regulator in beverage dispensing applications. Other Norgren regulators (R81 for soft drink, R82 for beer, R84 for carbonators) are available for 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
 R44-233-RNEA	1/4"	5 to 50
 R44-233-RNKA	1/4"	5 to 125

Accessories

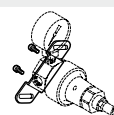



Wall mounting bracket	Service kit*
	
R44-233-RNEA: 18-001-021	3407-02
R44-233-RNKA: 18-001-021	3407-02

* Kit includes: Slip ring, diaphragm, standard valve seat with seal, valve, valve spring.

Models

R83 Series Model No.	Port size PTF	Outlet pressure adjustment range* psig
 R83-200-RNLA	1/4"	5 to 125

Accessories

Wall mounting bracket	Gauge	Relieving diaphragm	Valve cartridge*
			
R83-200-RNLA: 5095-51	18-013-085	570-51	5086-55

* Kit includes: Valve cartridge and seal

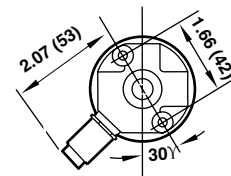
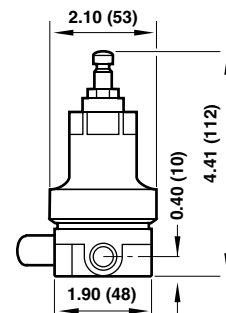
- In stock
- ◆ Ships within one week

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)

bar)

Materials

Body: Brass

Bonnet: Zinc




Valve cartridge: PTFE, brass, stainless steel

Diaphragm: Acetal and nitrile

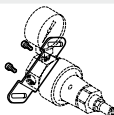



Relief valve: Brass, polycarbonate, nitrile, aluminum

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:

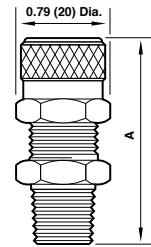
± 20% of relief pressure setting

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

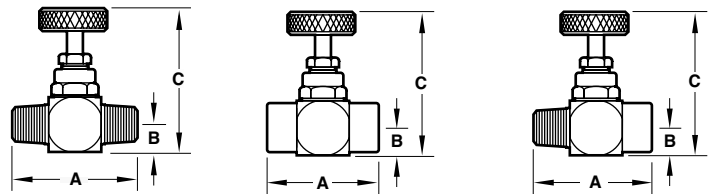
- Bar stock machined brass body
- Tapered brass needle
- Adjustable stem packing nut with PTFE seal
- Retained adjustment stem
- Metal to metal sealing surfaces
- Accurate metering of fluids
- 3,000 psig inlet pressure




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)

(-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 dm³/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

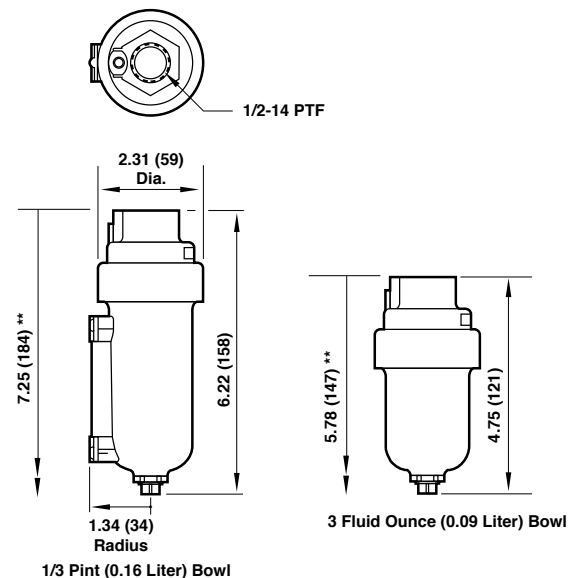
Metal: Zinc

Drain mechanism: Acetal, Nitrile, stainless steel

Metal bowl liquid level indicator

lens: Pyrex


Elastomers: CR



** 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 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 ** ●	

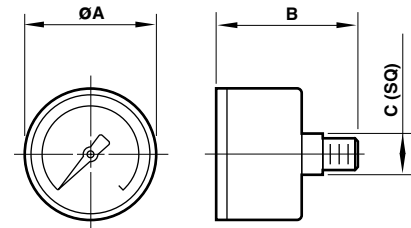
** Requires 1.63" (41 mm) diameter panel hole.

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 ●

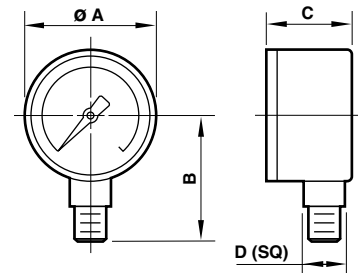
Outer scale psig	Scale Range Middle scale bar	Inner scale Mpa	Connection and Face Diameter	
			1/4" NPT 2.26" dia.	
0 to 160	0 to 11	0 to 1.1	18-013-917 ●	

- In stock
- ◆ Ships within one week



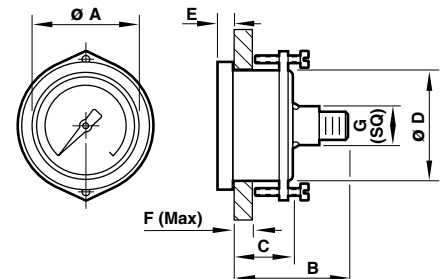
Dimensions (inches)

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

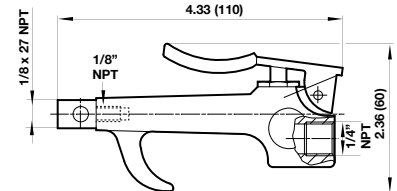
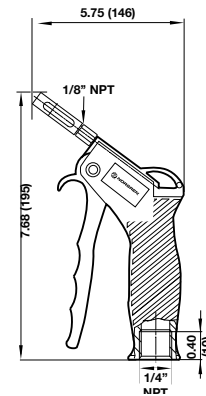
Connection:

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"

BG Series Model No.	Description	Port size PTF
 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

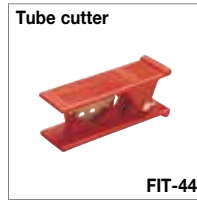
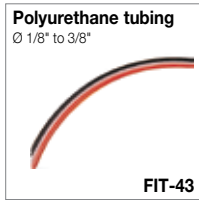
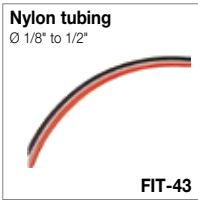
T70 series
Quick exhaust valves



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).

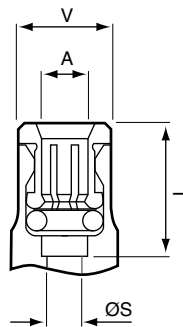
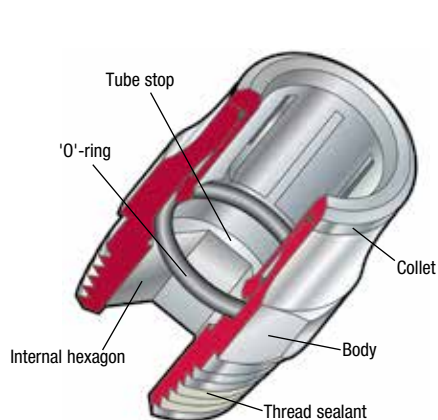
Note: Lower durometer polyurethane may be used, however, an internal tube support is required to prevent internal collapse of the tube wall.
 Thread Sealant: Precote 5 thread sealant is factory applied to the circumference of tapered male threads.

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)

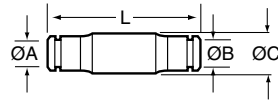


Dimensions

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

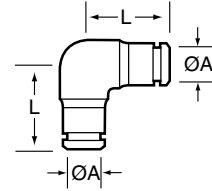
Dimensions in inches



Pneufit Union

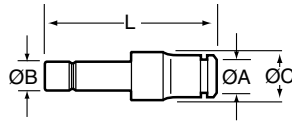
Part Number	A Tube O.D.	L	C
120200100	1/8"	1.15	0.35
120200200	5/32"	1.17	0.39
120200300	3/16"	1.26	0.43
120200400	1/4"	1.28	0.47
120200500	5/16"	1.35	0.55
120200600	3/8"	1.71	0.67
120200700	1/2"	1.98	0.81

* Reducing union with 1/8" and 1/4" connections



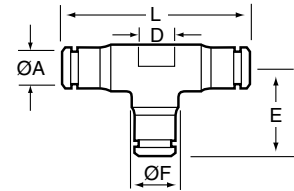
Pneufit Union Elbow

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



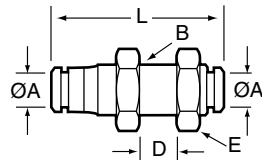
Pneufit Tube End Expander/Reducer

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
Expanding				
120230104	1/4"	1/8"	1.34	0.47
120230204	1/4"	5/32"	1.38	0.47



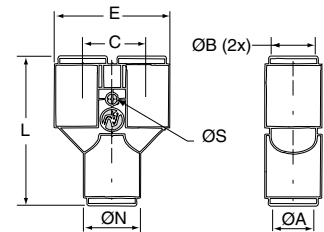
Pneufit Union Tee

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"

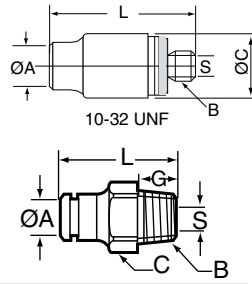
Part Number	A Tube O.D.	B Tube O.D.	C	ØD	E	L	ØN	ØS**
120820200	5/32"	5/32"	0.43	0.30	0.87	1.34	0.43	0.13
120820400	1/4"	1/4"	0.55	0.43	1.06	1.51	0.51	0.13
120820500	5/16"	5/16"	0.63	0.51	1.22	1.59	0.59	0.13

*Body Material: Thermoplastic

** Mounting hole

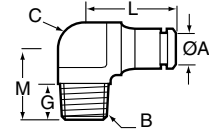
- In stock
- ◆ Ships within one week

Dimensions in inches



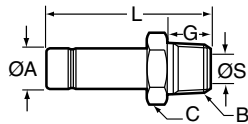
Pneufit Male Adapter

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"



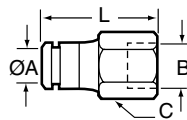
Pneufit Fixed Male Elbow

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



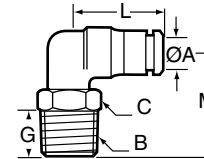
Pneufit Stem Adapter

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

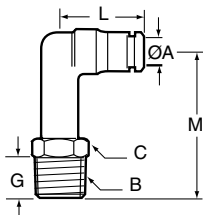


Pneufit Swivel Male Elbow

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

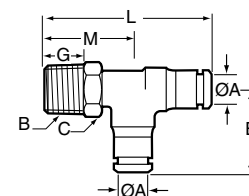
● In stock
◆ Ships within one week

Dimensions in inches



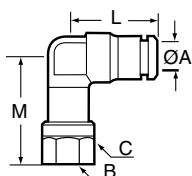
Pneufit Extended Swivel Male Elbow

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



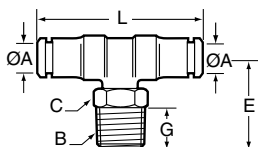
Pneufit Swivel Male Side Tee

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



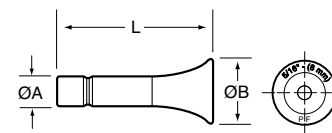
Pneufit Swivel Female Elbow

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

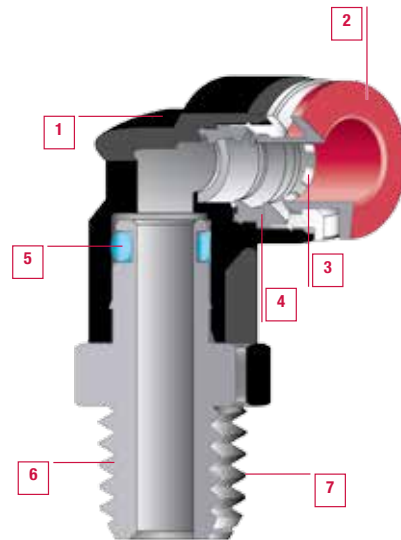
Release sleeve and backing ring:

POM

Grab-ring: stainless steel

Collar: nickel plated brass

Thread sealant: Chemitech G-175L


Method of assembly

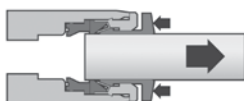

1. Ensure that the end tube is cut square and is free from burrs.

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.

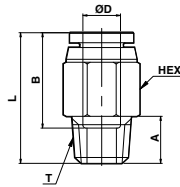
4. To disconnect, push the tube into the fitting, hold down the release button and withdraw the tube.



- | | |
|--|---|
| <p>1 Impact resistant PBT body in black for Pneufit® C and light gray for Pneufit® M.</p> <p>2 Release buttons are red for metric, grey for inch, and light grey oval for Pneufit® M.</p> <p>3 Stainless steel grab ring with special design to retain softer tube and provide easy releasability.</p> <p>4 Silicon free U-packing provides leak tight tube seal under side loading.</p> | <p>5 Stem seal provides leak tight 360° swivel connection.</p> <p>6 Nickel plated brass threads and notches on hex to signify NPT.</p> <p>7 Pre-applied thread sealant on tapered threads and recessed captive O-ring on parallel threads.</p> |
|--|---|

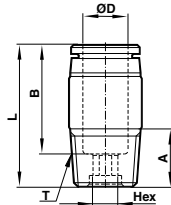
● In stock
◆ Ships within one week

Dimensions in inches



Straight adapter (external + internal hex)

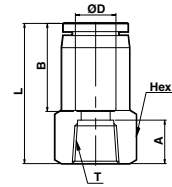
Part Number	ØD O/D tube	T NPT or UNF Thread	L	A	B	Hex
C24250210	5/32	10/32 UNF	0.84	0.14	0.64	7/16
C24250218	5/32	1/8	0.77	0.33	0.64	7/16
C24250228	5/32	1/4	0.87	0.41	0.64	9/16
C24250238	5/32	3/8	0.90	0.45	0.64	11/16
C24250310	3/16	10/32 UNF	0.87	0.14	0.66	7/16
C24250318	3/16	1/8	0.91	0.33	0.66	7/16
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 (internal hex only)

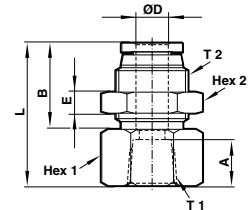
Part Number	ØD	T NPT or UNF Thread	L	A	B	Hex
C242A0210	5/32	10/32 UNF	0.82	0.14	0.60	0.09
C242A0218	5/32	1/8	0.83	0.33	0.60	0.13
C242A0228	5/32	1/4	0.87	0.41	0.60	0.13
C242A0310	3/16	10/32 UNF	0.88	0.14	0.67	0.09
C242A0318	3/16	1/8	0.89	0.33	0.67	0.13
C242A0328	3/16	1/4	0.93	0.41	0.67	0.13
C242A0410	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

- In stock
- ◆ Ships within one week



Straight adapter (female thread)

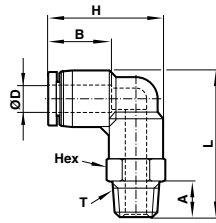
Part Number	ØD tube	T NPT Thread	L	A	B	Hex
C24260218	5/32	1/8	1.09	0.37	0.60	0.55
C24260228	5/32	1/4	1.17	0.45	0.60	0.69
C24260318	3/16	1/8	1.11	0.37	0.66	0.55
C24260328	3/16	1/4	1.19	0.45	0.66	0.69
C24260418	1/4	1/8	1.13	0.37	0.69	0.55
C24260428	1/4	1/4	1.21	0.45	0.69	0.67
C24260438	1/4	3/8	1.29	0.49	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



Female bulkhead

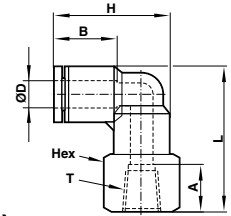
Part Number	ØD tube	T1 NPT Thread	L	E	T2	A	Hex1	B	Hex2
C24320218	5/32	1/8	1.07	0.20	M12x1.0p	0.35	14x16.1	0.64	14x16.1
C24320418	1/4	1/8	1.22	0.20	M14x1.0p	0.37	17x19.6	0.69	17x19.6
C24320428	1/4	1/4	1.22	0.20	M14x1.0p	0.45	17x19.6	0.69	17x19.6
C24320628	3/8	1/4	1.31	0.20	M20x1.0p	0.45	24x27.7	0.80	24x27.7
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

Dimensions in inches



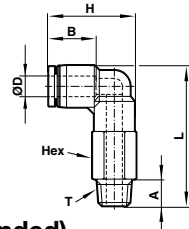
90° Swivel elbow

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	1.26	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



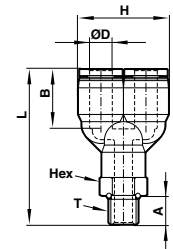
90° Swivel elbow adapter (female)

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)

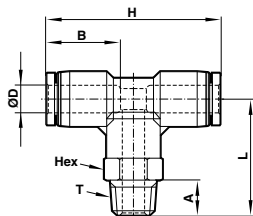
Part Number	ØD	T NPT or UNF Thread	D	L	H	A	B	Hex
C24540210	5/32	10/32 UNF	0.41	1.28	0.73	0.14	0.64	3/8
C24540218	5/32	1/8	0.41	1.40	0.73	0.33	0.64	7/16
C24540228	5/32	1/4	0.41	1.52	0.73	0.41	0.64	9/16
C24540318	3/16	1/8	0.45	1.38	0.75	0.33	0.66	7/16
C24540328	3/16	1/4	0.45	1.52	0.75	0.41	0.66	9/16
C24540338	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

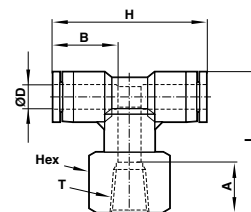
Part	ØD	T NPT or UNF Thread	D	L	H	A	B	Hex
C24880210	5/32	10/32 UNF	0.41	1.50	0.83	0.14	0.64	3/8
C24880218	5/32	1/8	0.41	1.64	0.83	0.33	0.64	7/16
C24880228	5/32	1/4	0.41	1.76	0.83	0.41	0.64	9/16
C24880310	3/16	10/32 UNF	0.45	1.65	0.91	0.14	0.66	7/16
C24880318	3/16	1/8	0.45	1.79	0.91	0.33	0.66	7/16
C24880328	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



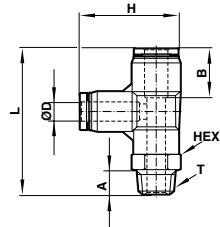
Swivel tee adapter

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



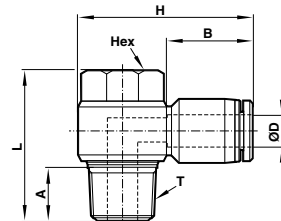
Swivel tee adapter

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



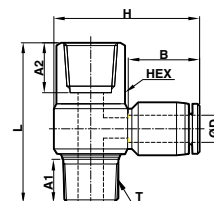
Swivel side tee adapter

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

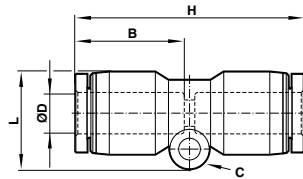
Part	L	T NPT or UNF Thread	H	ØD	B	A	Hex
C2R510210	0.72	10/32 UNF	0.99	5/32	0.64	0.14	0.31
C2R510218	0.98	1/8	1.20	5/32	0.64	0.31	0.43
C2R510410	0.72	10/32 UNF	1.13	1/4	0.69	0.14	0.31
C2R510418	0.98	1/8	1.26	1/4	0.69	0.31	0.43
C2R510428	1.13	1/4	1.41	1/4	0.69	0.39	0.59
C2R510518	0.98	1/8	1.30	5/16	0.74	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



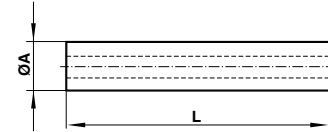
Banjo with top port

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

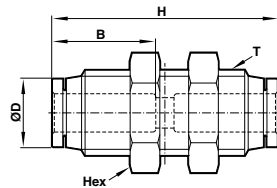
Dimensions in inches


Straight union

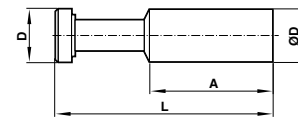
Part Number	ØD	H	L	C	B	D
C20200200	5/32	1.36	0.50	0.13	0.64	0.41
C20200300	3/16	1.40	0.59	0.14	0.66	0.45
C20200400	1/4	1.45	0.64	0.14	0.69	0.51
C20200500	5/16	1.55	0.78	0.17	0.74	0.57
C20200600	3/8	1.68	0.85	0.18	0.80	0.69
C20200700	1/2	1.93	0.96	0.18	0.87	0.83


Stem union

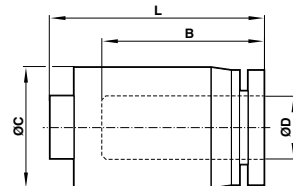
Part Number	ØA	L
C20220200	5/32	1.42
C20220300	3/16	1.50
C20220400	1/4	1.57
C20220500	5/16	1.65
C20220600	3/8	1.77
C20220700	1/2	1.97


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

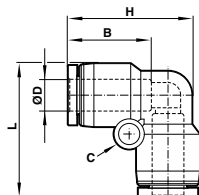
Part Number	ØD	D	A	L
C00040400	5/32	5/32	0.71	1.18
C20040300	3/16	3/16	0.75	1.30
C20040400	1/4	1/4	0.79	1.34
C20040600	3/8	3/8	1.02	1.65
C20040700	1/2	1/2	1.10	1.81


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

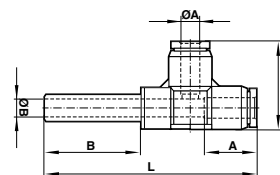
● In stock
 ◆ Ships within one week

Dimensions in inches



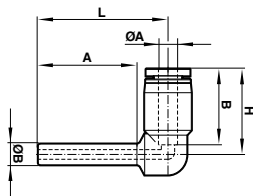
Union elbow

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



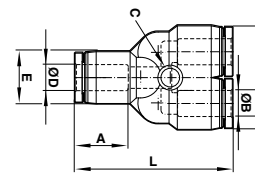
Stem side tee

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



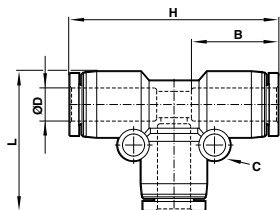
Stem elbow

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



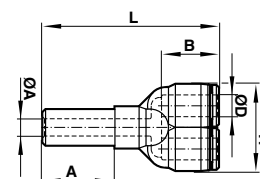
Union Y

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



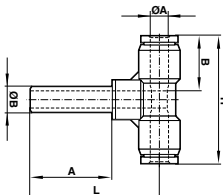
Union tee

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



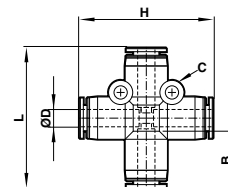
Stem Y

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

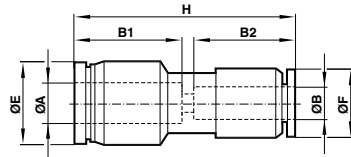
Part Number	ØA	ØB	A	L	H	B
C20630200	5/32	5/32	0.94	1.48	1.46	0.64
C20630300	3/16	3/16	0.94	1.48	1.50	0.66
C20630400	1/4	1/4	0.98	1.61	1.61	0.69
C20630500	5/16	5/16	1.02	1.69	1.72	0.74
C20630600	3/8	3/8	1.13	1.80	1.88	0.80
C20630700	1/2	1/2	1.18	2.03	2.22	0.87



Union cross

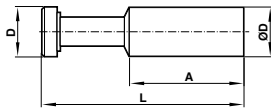
Part Number	ØD	C	H	L	B
C20900200	5/32	0.13	1.44	1.49	0.64
C20900300	3/16	0.13	1.54	1.54	0.66
C20900400	1/4	0.13	1.68	1.68	0.69
C20900500	5/16	0.17	1.77	1.84	0.74
C20900600	3/8	0.17	1.90	1.99	0.79
C20900700	1/2	0.17	2.38	2.38	0.87

Dimensions in inches



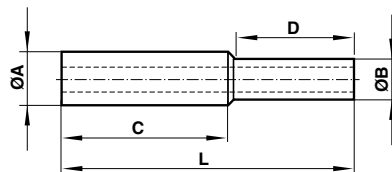
Straight union (unequal)

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



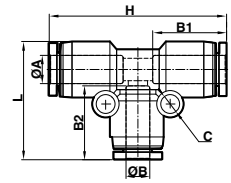
Stem Reducer (stem/tube)

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



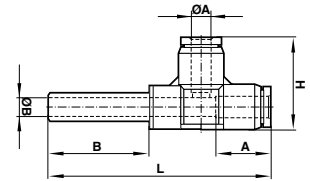
Stem Union (unequal)

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



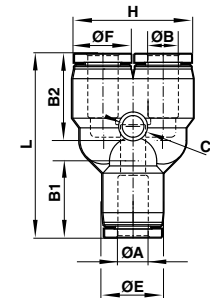
Union Tee (unequal)

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



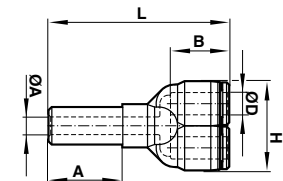
Stem Side Tee (unequal)

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

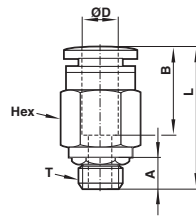


Stem Y (unequal)

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

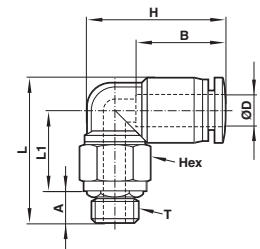
● In stock
◆ Ships within one week

Dimensions in inches



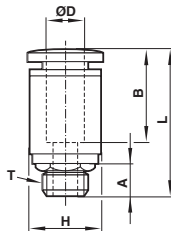
Straight adapter (external + internal hex)

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



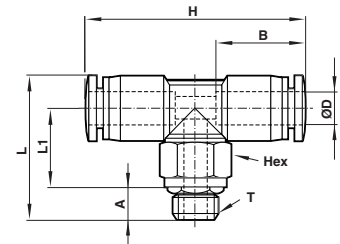
90° Swivel Elbow Adapter

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



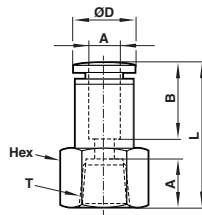
Straight adapter (internal hex only)

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



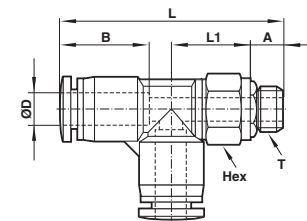
Swivel Tee Adapter

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

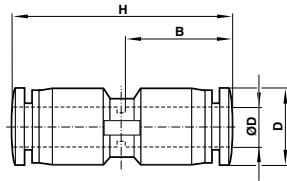


Swivel Side Tee Adapter

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

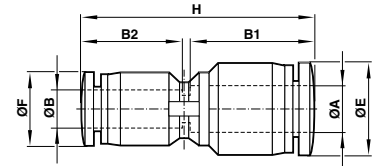
● In stock
◆ Ships within one week

Dimensions in inches



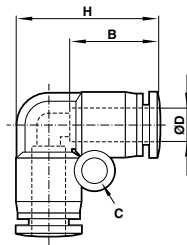
Straight Union

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



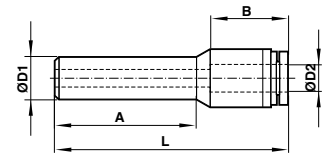
Straight Union (unequal)

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



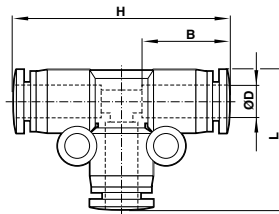
Union Elbow

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



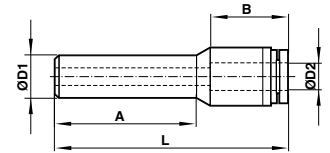
Stem Reducer (stem/tube)

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

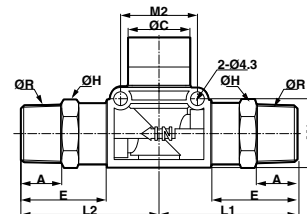


Stem Expander (stem/tube)

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

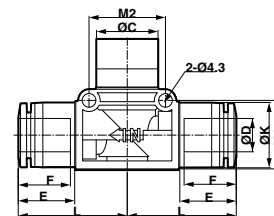
● In stock
 ◆ Ships within one week

Dimensions in inches



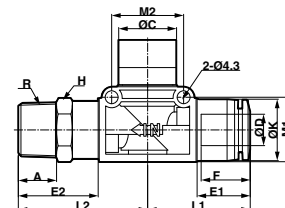
Thread to thread shut-off valve

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



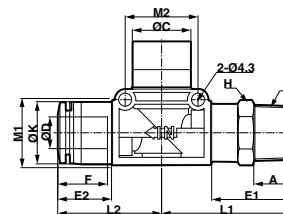
Tube to tube shut-off valve

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:

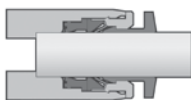
Nylon, Polyurethane, Polyethylene

Method of assembly



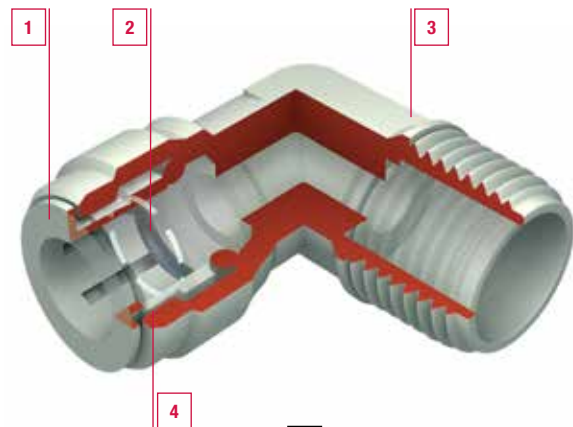
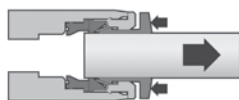
1. Ensure that the end tube is cut square and is free from burrs.

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.

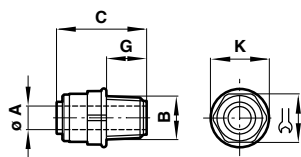
4. To disconnect, push the tube into the fitting, hold down the release button and withdraw the tube.



- 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

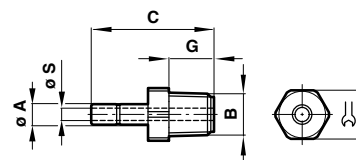
● In stock
 ◆ Ships within one week

Dimensions in inches



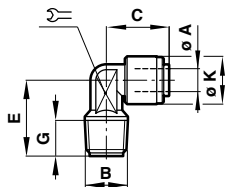
Straight Adapter

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



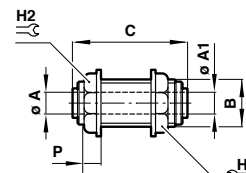
Straight Stem Adapter

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

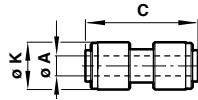


Bulkhead Union

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

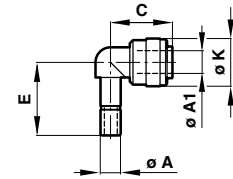
● In stock
◆ Ships within one week

Dimensions in inches



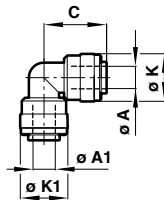
Straight Union

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



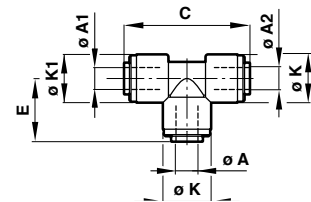
Stem Elbow

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

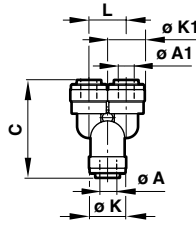


Union Tee

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

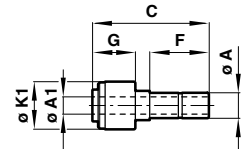
● In stock
 ◆ Ships within one week

Dimensions in inches



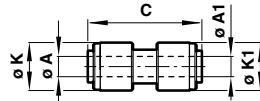
Union Y

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



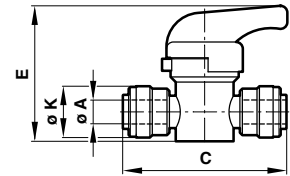
Stem Reducer (stem/tube)

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)

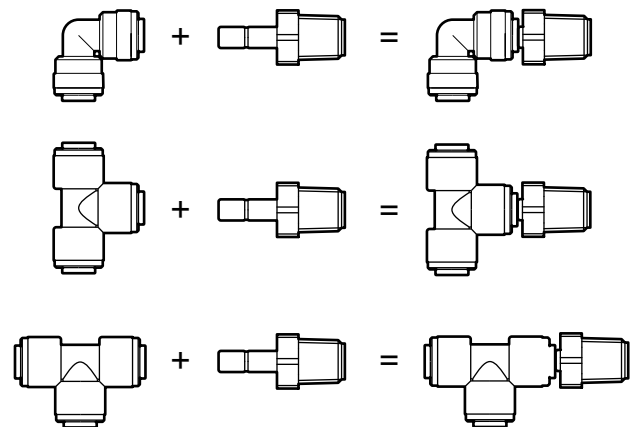
Part Number	ø A	ø A1	C*	ø K	ø K1
D20200504 ●	5/16	1/4	1.45	0.69	0.69
D20200605 ●	3/8	5/16	1.67	0.79	0.79
D20200706 ●	1/2	3/8	2.06	0.93	0.99



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

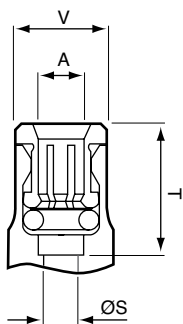
Body, swivel fitting and collet: Nickel plated brass

O-ring: Silicone free Nitrile

Sealing washer (parallel male threads): Silicon free nitrile

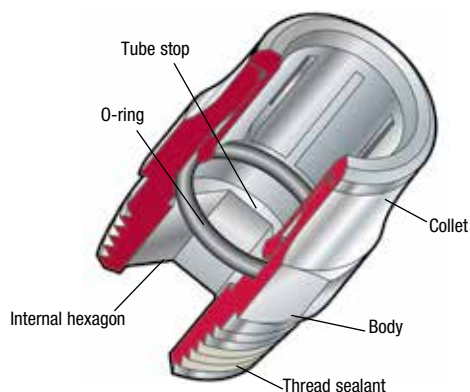
Tubing: Nylon 11 or Nylon 12, Polyurethane (95 durometer or above) and LDPE (Low Density Polyethylene).

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

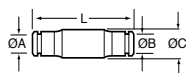
Thread Size	Tightening Torque Nm (ft lbs)	
	ISO R	ISO G*
M5	—	1 - 1.4 (.75 - 1.05)
1/8	6.9 - 8.8 (5.0 - 6.5)	7 - 9 (5.3 - 6.8)
1/4	11.8 - 13.7 (8.7 - 10.0)	9 - 12 (6.8 - 9.0)
3/8	21.6 - 23.5 (15.9 - 17.3)	34 - 38 (25.5 - 28.5)
1/2	27.4 - 29.4 (20.2 - 21.7)	41 - 47 (30.8 - 35.3)

* 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

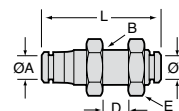
O.D. Tube	Nylon	Polyurethane
4 mm to 5 mm (5/32" to 3/16")	+0.05 mm (+0.002") -0.07 mm (-0.003")	±0.10 mm (±0.004")
6 mm to 14 mm (1/4" to 1/2")	+0.05 mm (+0.002") -0.10 mm (-0.004")	

LDPE -Tolerances specified in DIN 73378 or BS54-09/1:1976



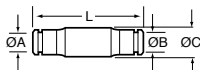
Pneufit Union

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



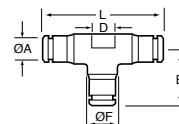
Pneufit Bulkhead Union

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



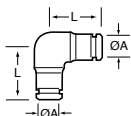
Pneufit Conversions Union (Inch tube to mm tube)

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



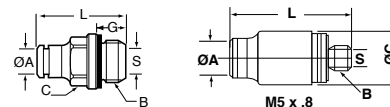
Pneufit Union Tee

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

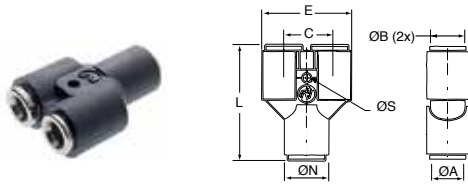
Pneufit ISO G Male Connector



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

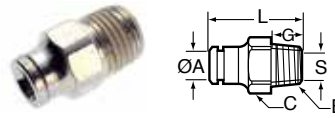
Dimensions in MM



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

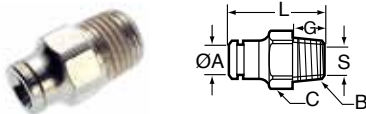


**Pneufit Male Adapter - Conversion
(Inch O.D. Tube to ISO R (Male) Thread)**

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

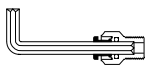


All straight male connectors have an internal hex for the use of an Allen Wrench to allow the fitting to be mounted in any position. This also permits close porting not possible with a standard open end or socket wrench.

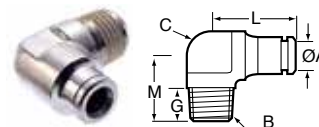


Pneumatic Male Adapter

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.

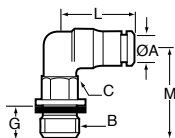


Pneufit ISO R Male Fixed Elbow

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

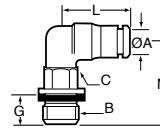
● In stock
◆ Ships within one week

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

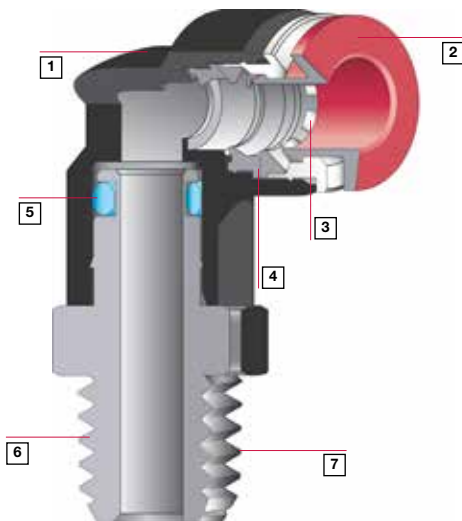
Release sleeve and backing ring:

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

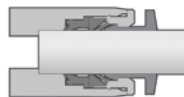
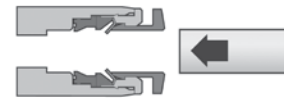
 Ships within one week

Method of assembly



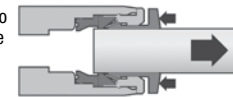
1. Ensure that the end tube is cut square and is free from burrs.

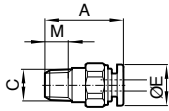
2. Push the tube through the release ring button and grab ring into the fitting.



3. Push the tube firmly through the 'O' ring until it bottoms on the tube stop, then pull back.

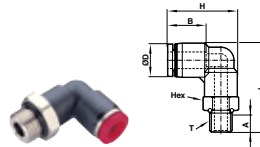
4. To disconnect, push the tube into the fitting, hold down the release button and withdraw the tube.





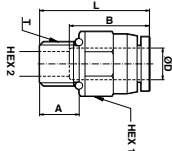
ISO R Male connector

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



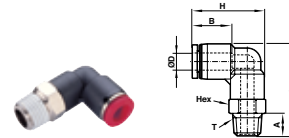
90° Swivel elbow

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



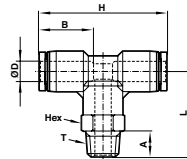
ISO G Male connector

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



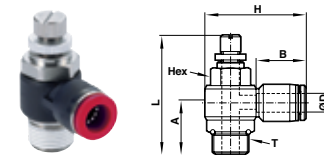
90° Swivel elbow

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

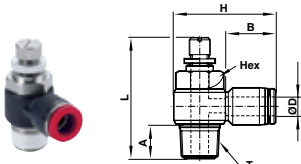


Banjo Flow Control (mm)
(out)

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

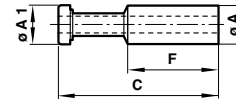
● In stock
 ◆ Ships within one week

Dimensions in MM



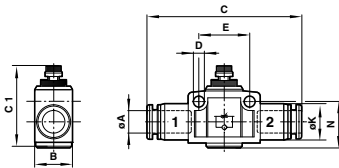
Banjo Flow Control (mm)

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



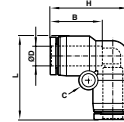
Plug

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



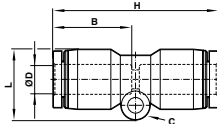
In line flow control

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



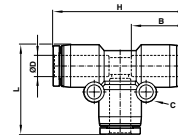
Union elbow

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



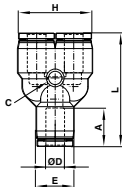
Straight union

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



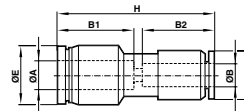
Union tee

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

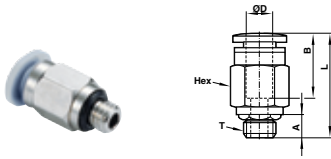


Straight union (unequal)

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

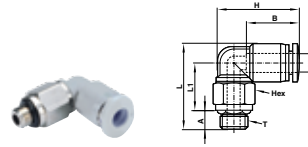
● In stock
◆ Ships within one week

Dimensions in MM



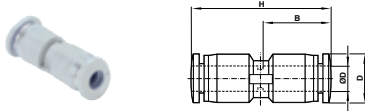
Straight adapter (external + internal hex)

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

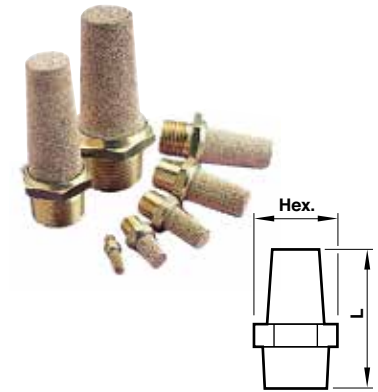
Part number	O/D tube	D	B	H
M00200400	4mm	8.5	11.6	24.5
M00200600	6mm	10.7	12.8	26.6

- In stock
- ◆ Ships within one week

Dimensions in MM

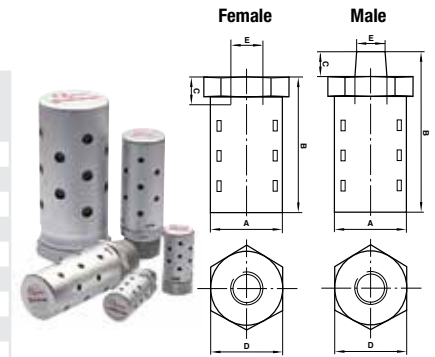
Sintered Bronze Mufflers

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



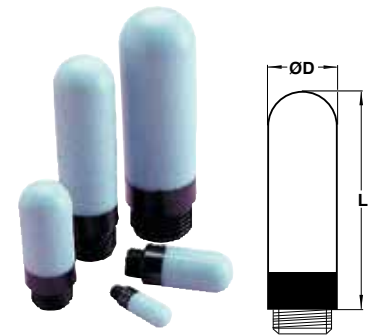
Quietaire Heavy Duty Mufflers

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

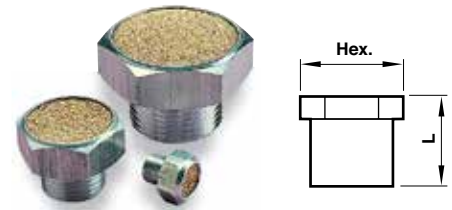


- In stock
- ◆ Ships within one week

Dimensions in inches

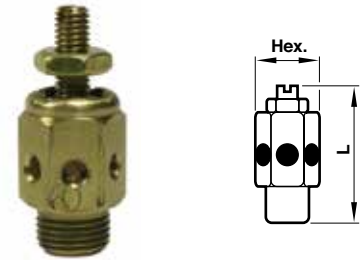
Breather Vents

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



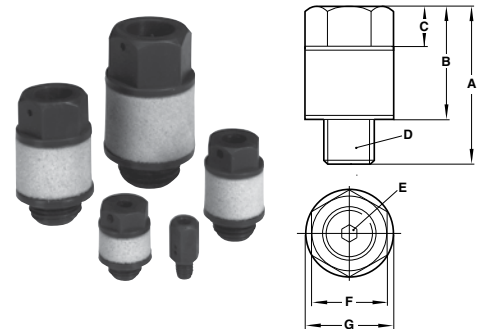
Sintered Bronze Speed Control

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



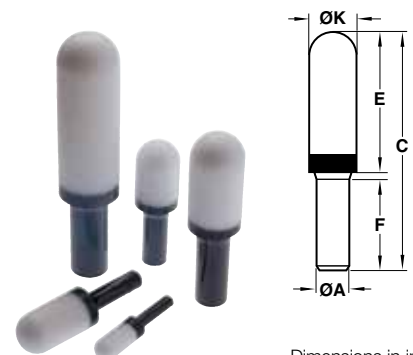
High Performance Flow Control Muffler

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

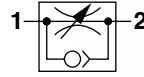
Silicone free 'O'-ring seals

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:

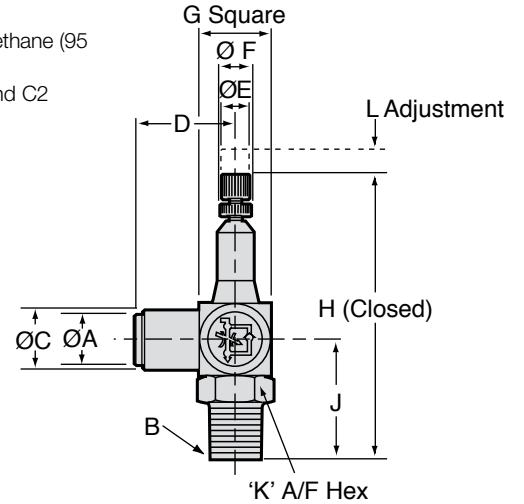
0° to 175°F (-20° to 80°C).

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

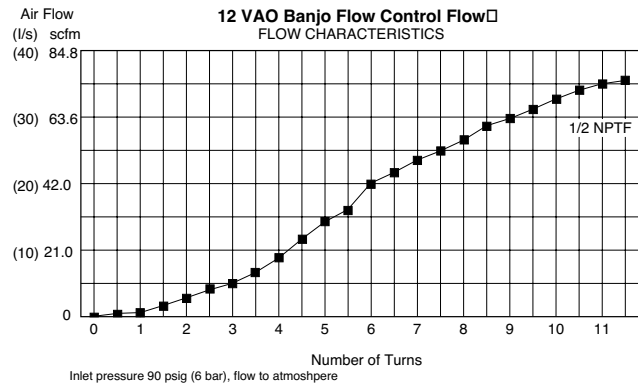
Tube types:

Nylon 11 or 12, polyurethane (95 durometer and 85 durometer on C0 and C2 models)



VAO Series

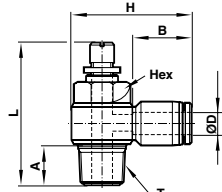
Part Number	A O.D. Tube	B NPT or UNF Thread	C	D	E	F	G	H	J	K A/F	L Adj
12VA00210 ●	5/32"	10-32 UNF	0.37	1.04	0.16	0.28	0.38	1.51	0.45	-	0.12
12VA00218 ●	5/32"	1/8	0.45	0.87	0.31	0.35	0.63	2.09	0.89	9/16"	0.12
12VA00418 ●	1/4"	1/8	0.51	0.91	0.31	0.35	0.63	2.09	0.89	9/16"	0.12
12VA00428 ●	1/4"	1/4	0.53	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



Dimensions in inches

C2VA0

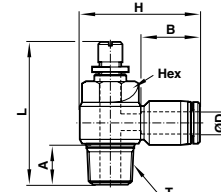
Banjo Flow Control (inch)
(Regulating out)



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

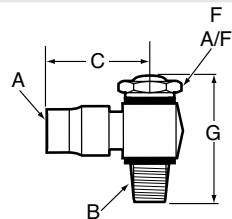
C2WA0

Banjo Flow Control (inch)
(Regulating in)

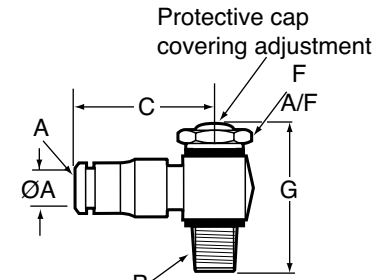


Part Number	ØD	T NPT or UNF Thrd	L		H	B	A	Hex
			min	max				
C2WA00110	1/8	10/32 UNF	1.07	1.19	0.85	0.44	0.14	0.31
C2WA00210	5/32	10/32 UNF	1.07	1.19	0.99	0.64	0.14	0.31
C2WA00410	1/4	10/32 UNF	1.07	1.19	1.13	0.69	0.14	0.31
C2WA00218	5/32	1/8	1.37	1.58	1.2	0.64	0.31	0.43
C2WA00318	3/16	1/8	1.37	1.58	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



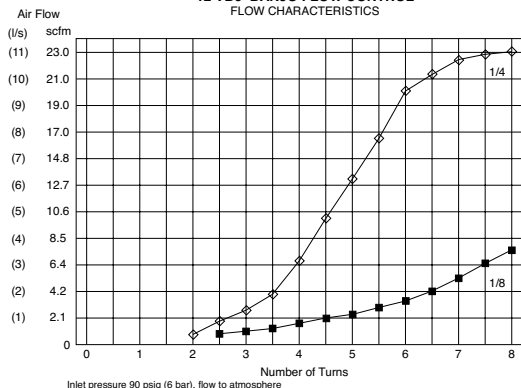
Part Number	A NPT Female	B NPT Male	C	F	G
12VB01818	1/8	1/8	0.83	9/16"	1.57
12VB02828	1/4	1/4	1.14	3/4"	1.83
12VB04848	1/2	1/2	1.53	11/16"	2.55



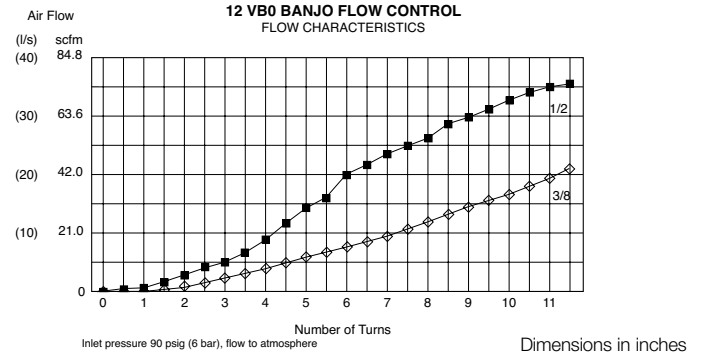
VB0 Series

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)

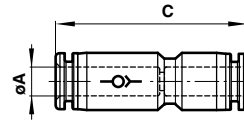
u-packing and O-rings

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

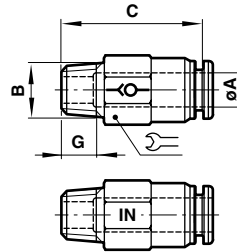
Grab-ring: stainless steel

Collar: ZNDC

Thread sealant: Threebond 2350B

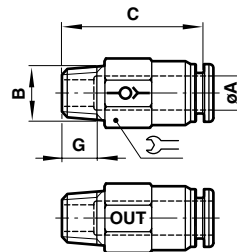
C204G2 In-line non-return valve (in), taper thread

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

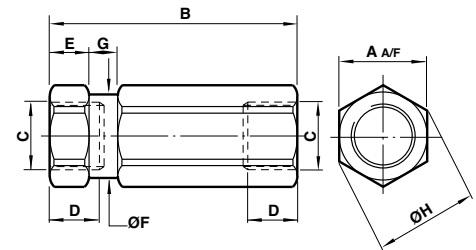


T55 Series

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.

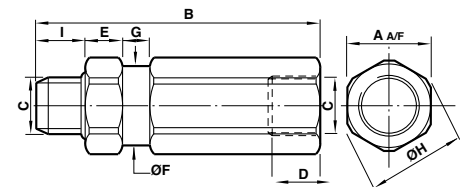


T56 Series

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.

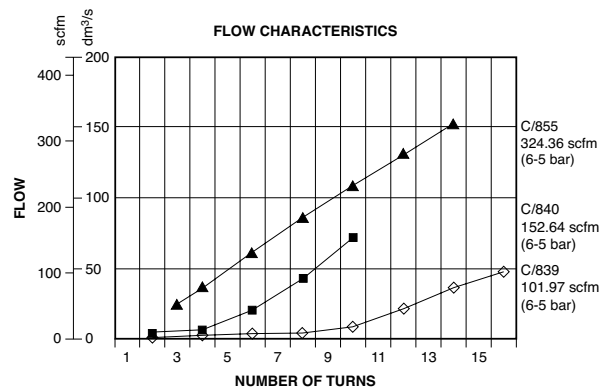
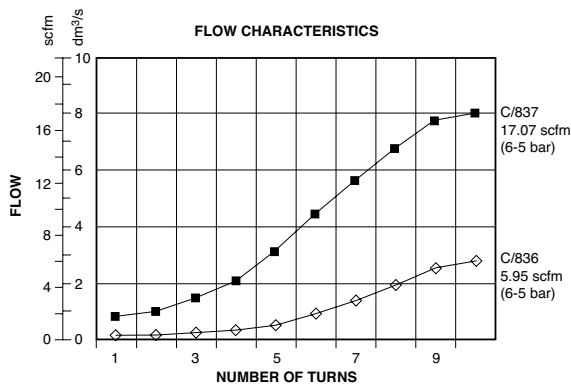
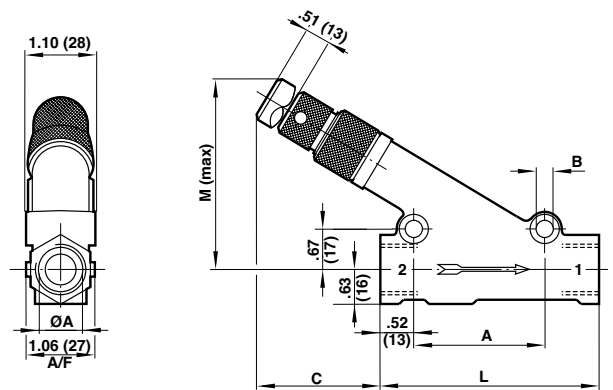


C/800

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

Tube types:

Nylon 11 or 12

Polyurethane 85, 95 or 98 durometer

Materials

Body: PBT

Seals: NBR (silicone free)

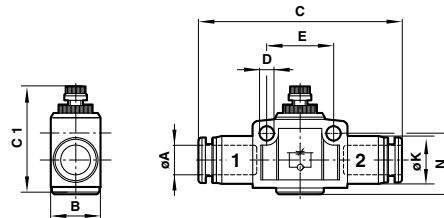
u-packing and O-rings

Release sleeve and backing ring:

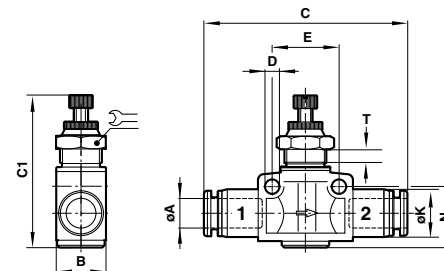
POM

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



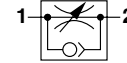
Technical data

Medium:
Compressed air, filtered, lubricated or non-lubricated, inert gases

Operating pressure:
15 to 145 psig (1-10 bar)

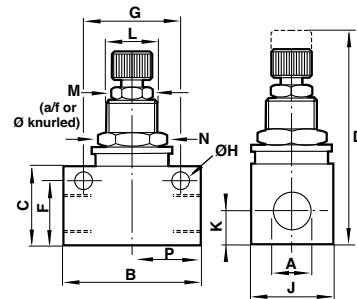
Operating temperature:
0° to 175°F* (-20° to 80°C)
*Consult our Technical Service for use below 35°F (2°C)

Materials
Aluminum alloy body, Nitrile seals, brass needle and internal parts, external parts in aluminum alloy.



T1000

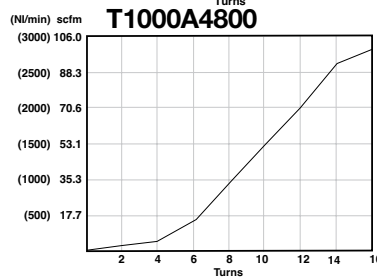
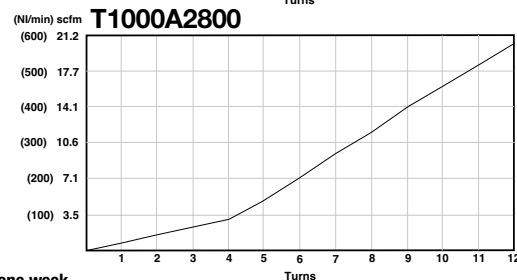
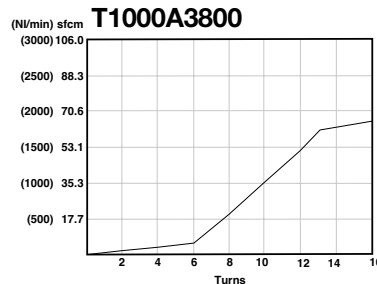
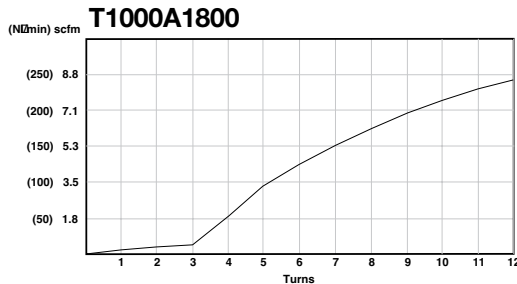
Part Number NPT	Part Number BSP	Cv Regulating NPT port	Cv Free Flow NPT port	Weight oz.
T1000A1800	T1000C1800	0.14	0.37	1.1
T1000A2800	T1000C2800	0.32	0.69	2.0
T1000A3800	T1000C3800	1.00	1.45	5.3
T1000A4800	T1000C4800	1.60	1.90	6.3



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)

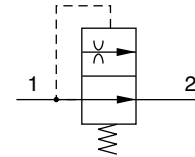
Mounting:

In-line two way valve. To be inserted between fixed air supply and flexible hose air line. See guidelines for typical installation.

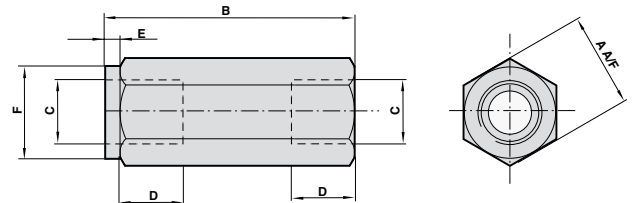
Operating temperature:

 0^{**} 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)

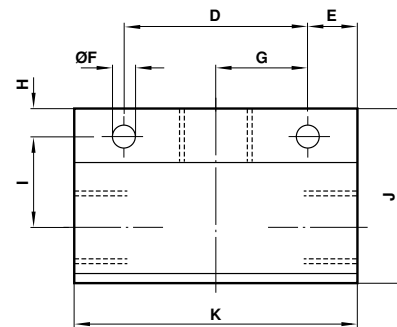
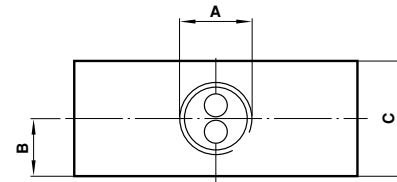
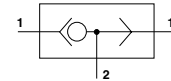
*Consult our Technical Service for use below 35°F (2°C)

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).

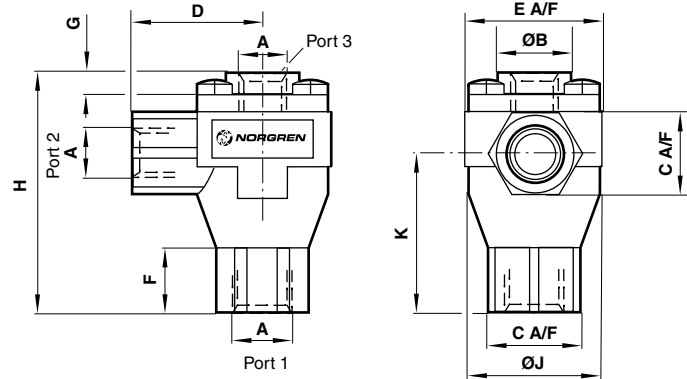
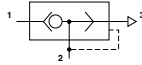
Consult our Technical Service for use
below 35°F (+2°C).

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:

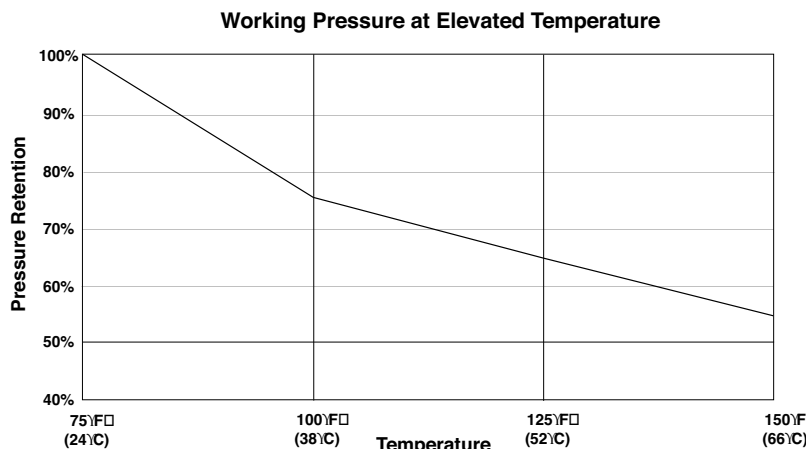
+ 0.002"; -0.004"

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

V3 SYRINGE DRIVE PUMP



Page LS-04

V6 SYRINGE DRIVE PUMP



Page LS-06

KLOEHN SYRINGES

SYRINGE V3 (3 CM)



Page LS-08

SYRINGE V6 (6 CM)



Page LS-10

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

- 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

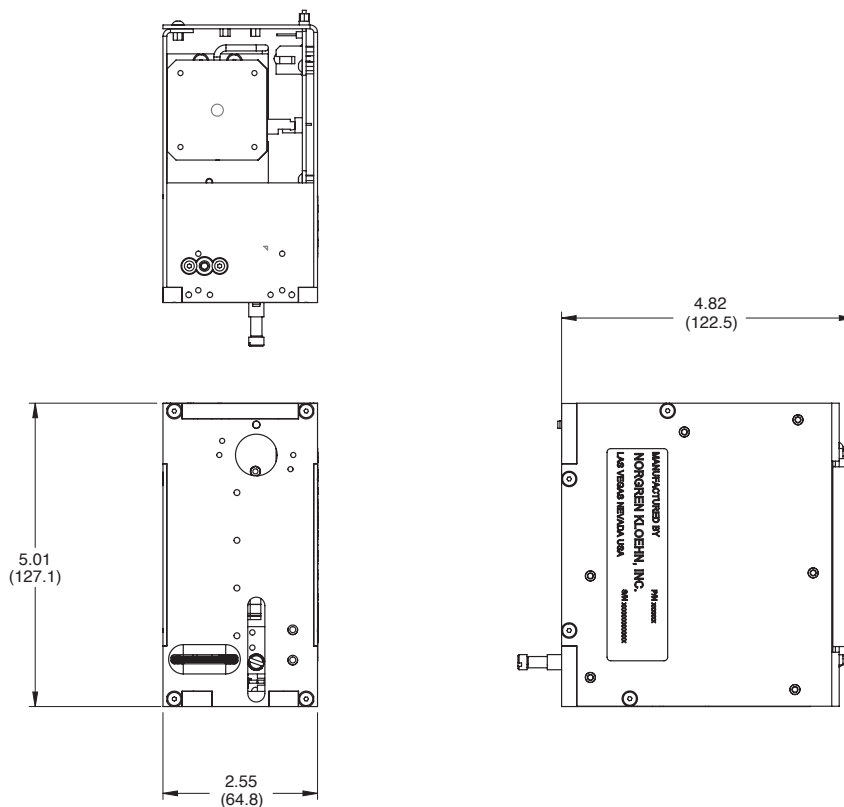
For additional options visit www.norgren.com

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



- 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

● In stock

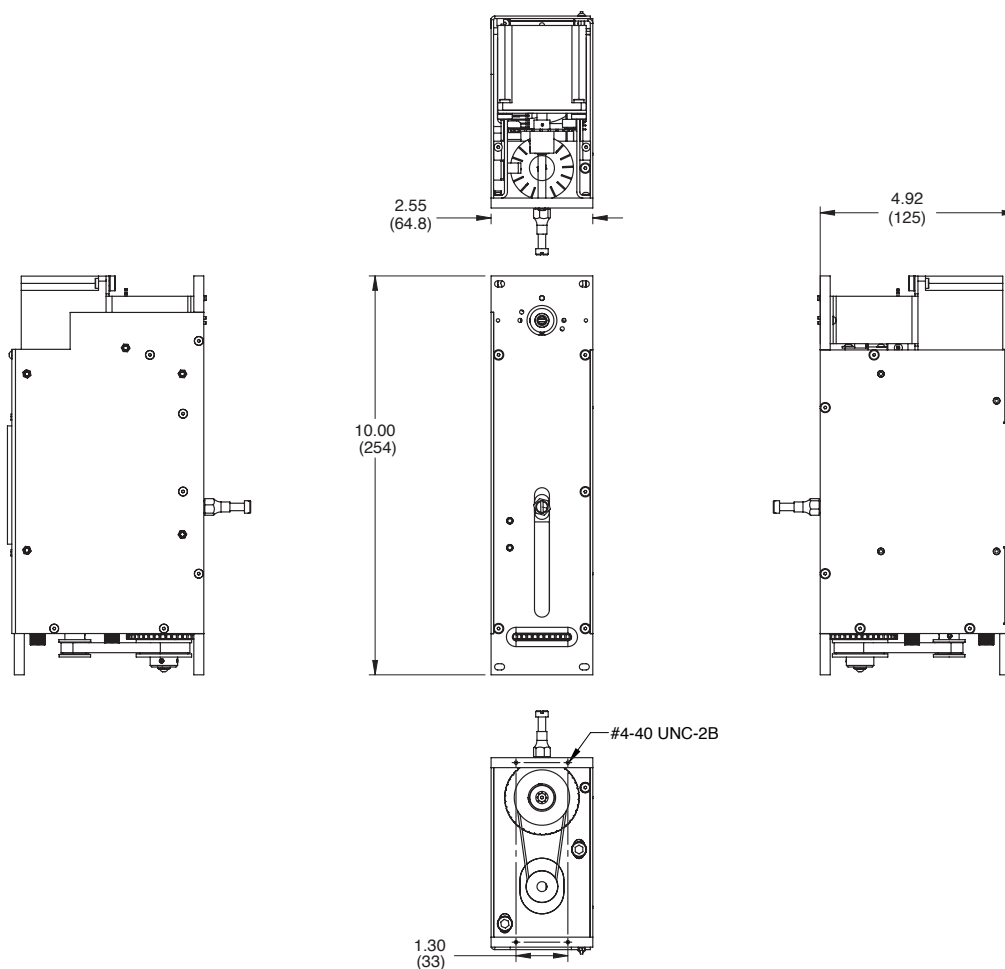
◆ Ships within one week

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

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

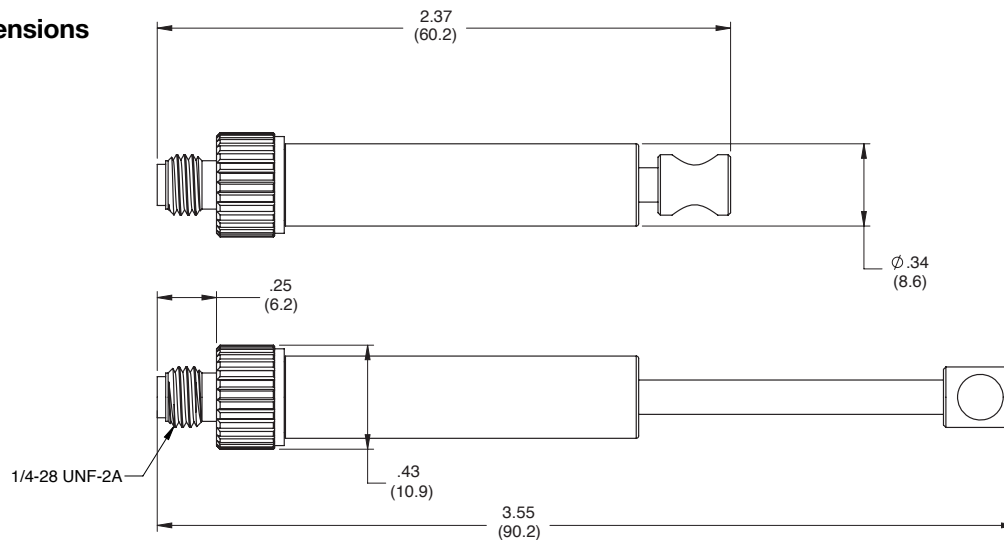
Lubricated with laboratory-
grade Silicone

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

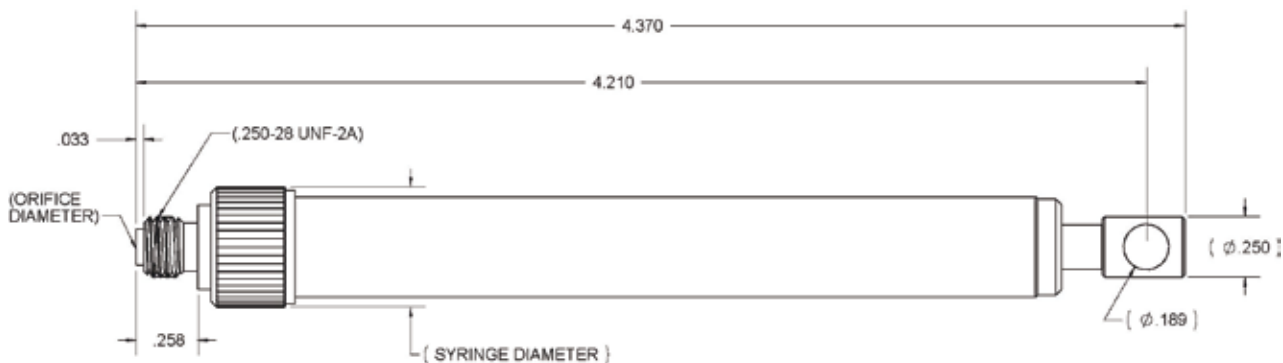
Standard Syringe Seal
PTFE
Wetted Materials
Borosilicate Glass, PCTFE, PTFE
(or UHMW) (smaller sizes ZDV
tips are PTFE coated 316L)
Syringe Tips
Lubricated with laboratory-
grade Silicone

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:

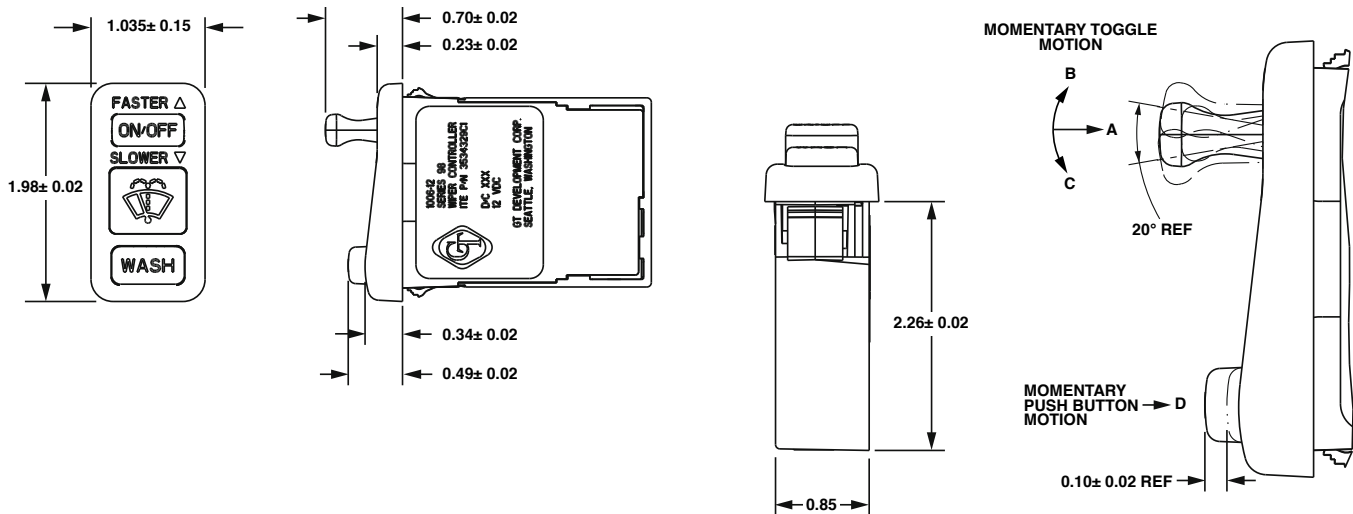
Zytel 72G13 HSIL BK black
 nylon 6/6 13% glass

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

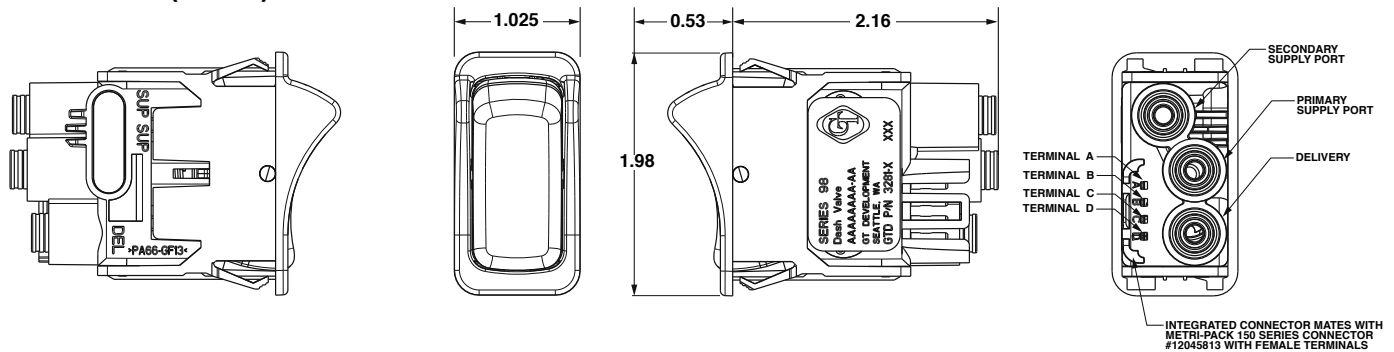
Tube O/D:

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)

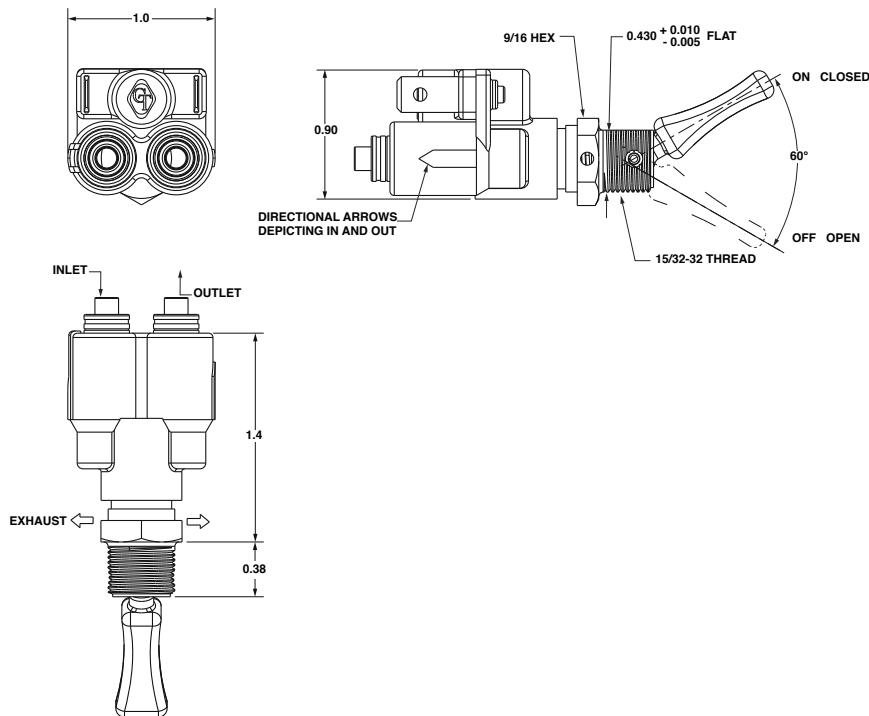
Technical data

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)

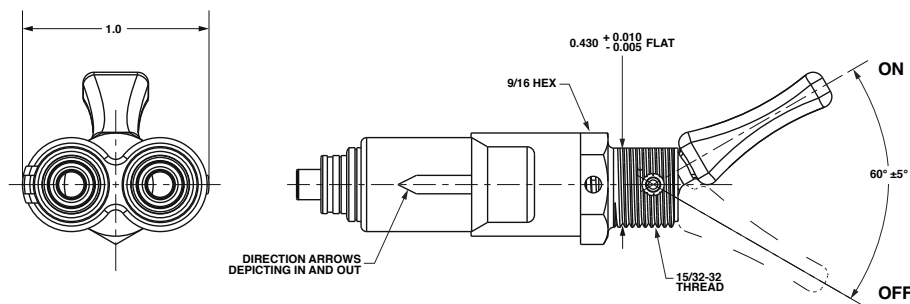
Material:

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)

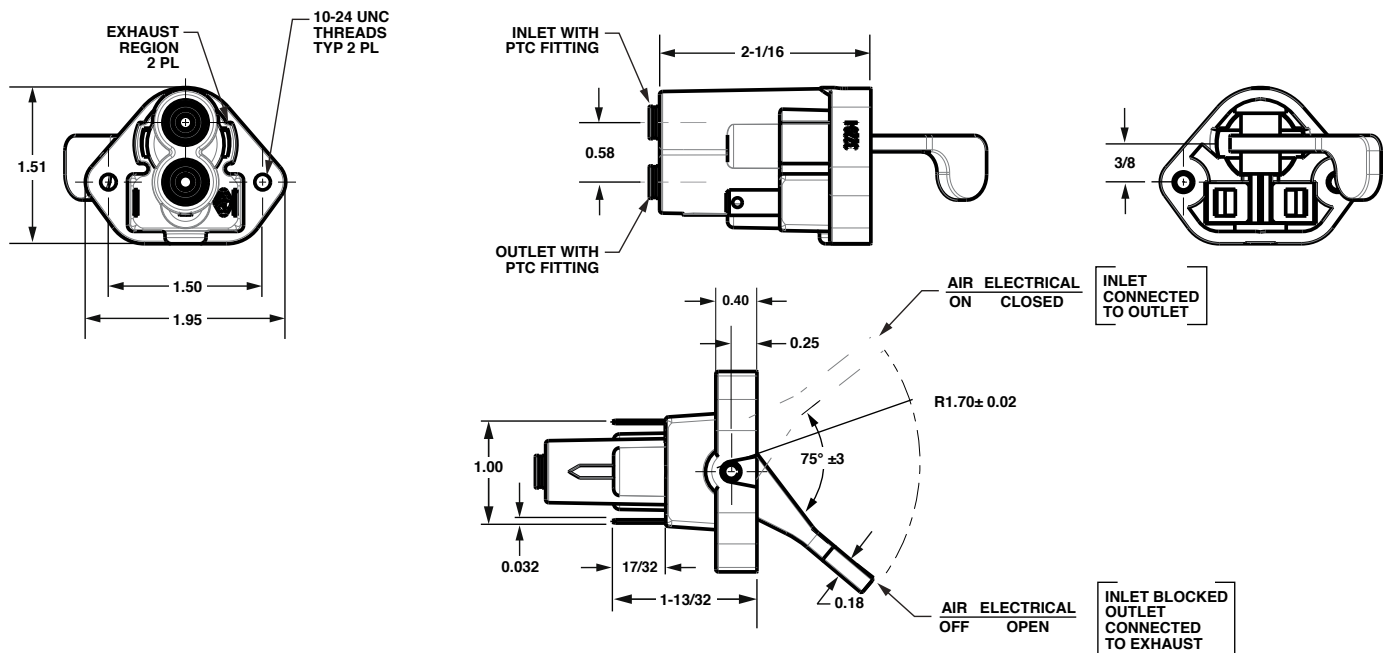
Tube O/D:

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

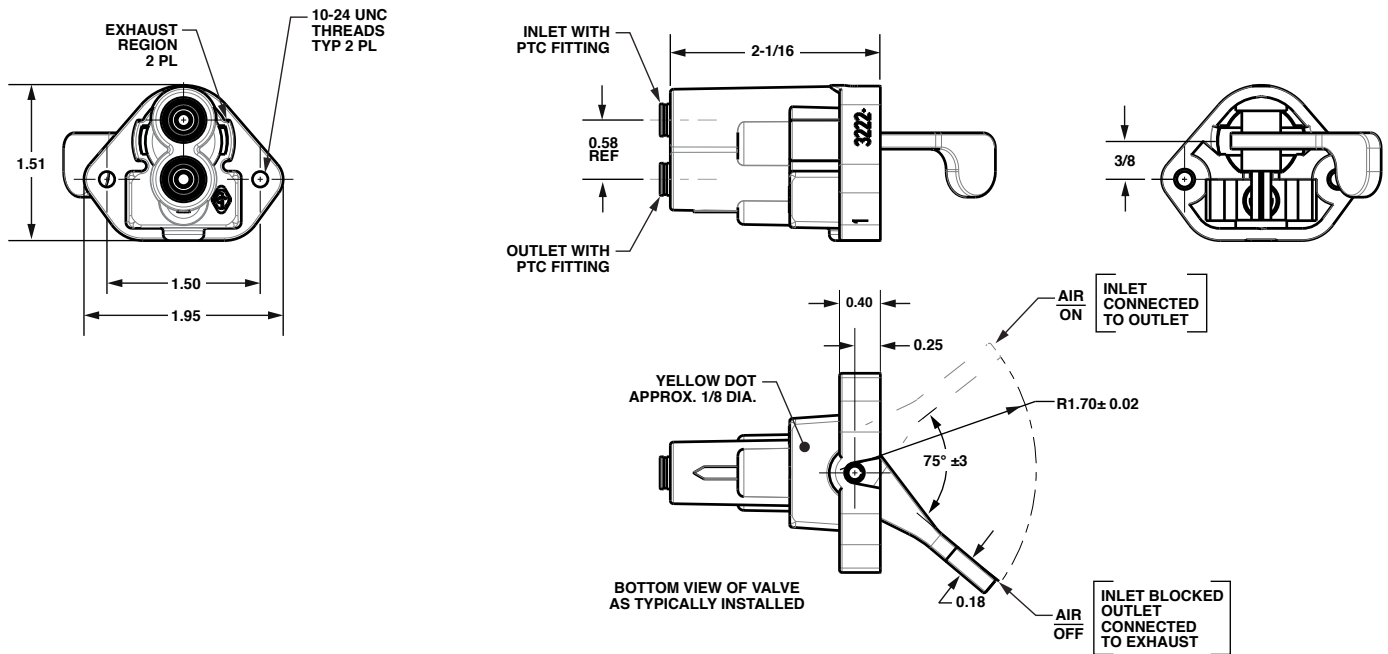
Integral Push-To-Connect fittings (PTC)



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

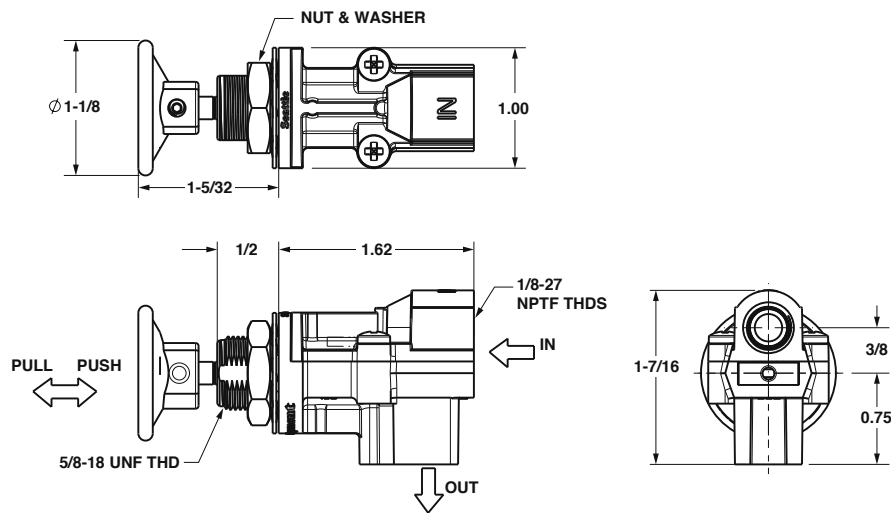
Pull: Vents outlet port

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)

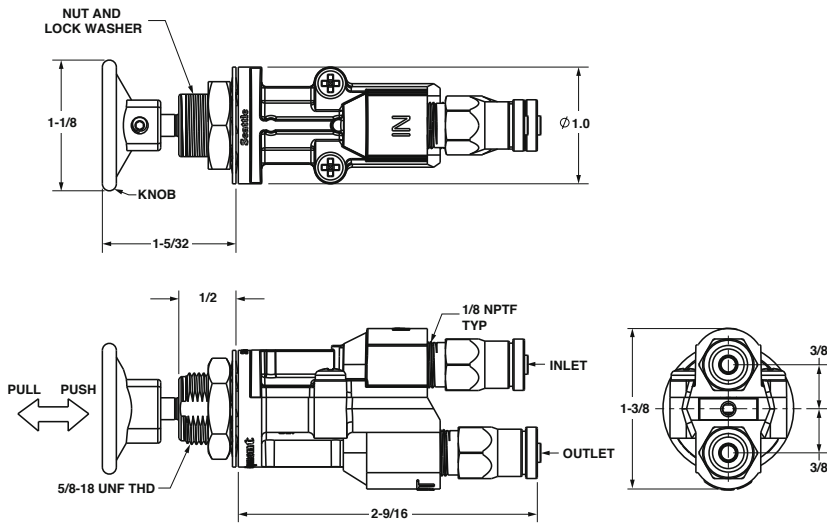
Actuation:
Push: Applies inlet pressure to outlet port
Pull: Vents outlet port

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)

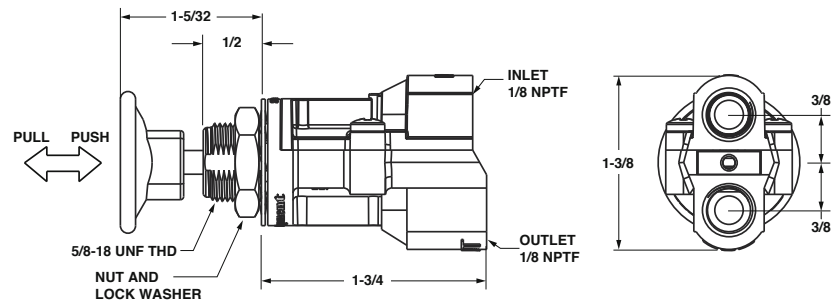
Actuation:
Push: Applies inlet pressure to outlet port
Pull: Vents outlet port

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

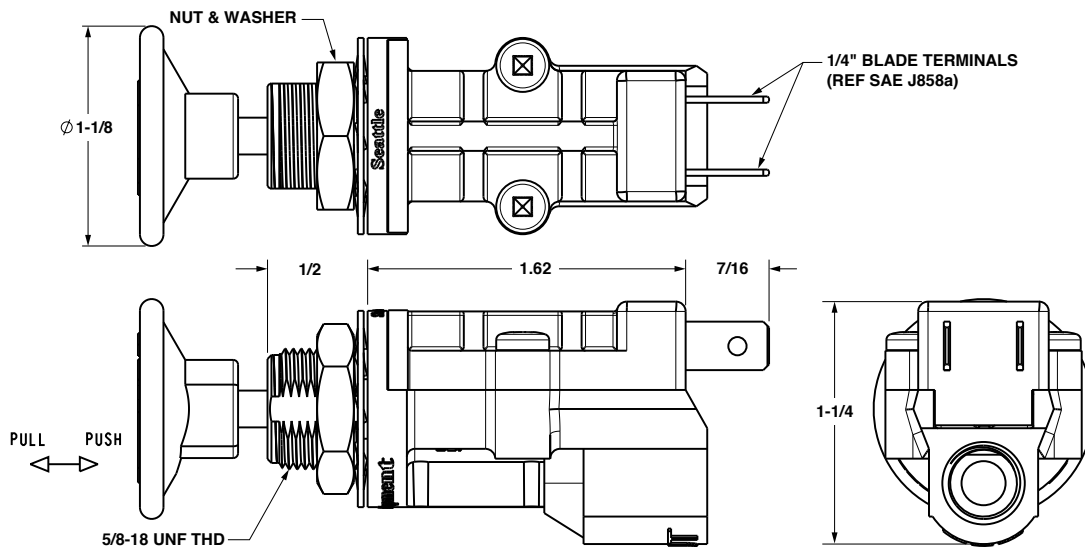
Operating pressure:
0 to 200 psi (0 to 13 bar)

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"

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

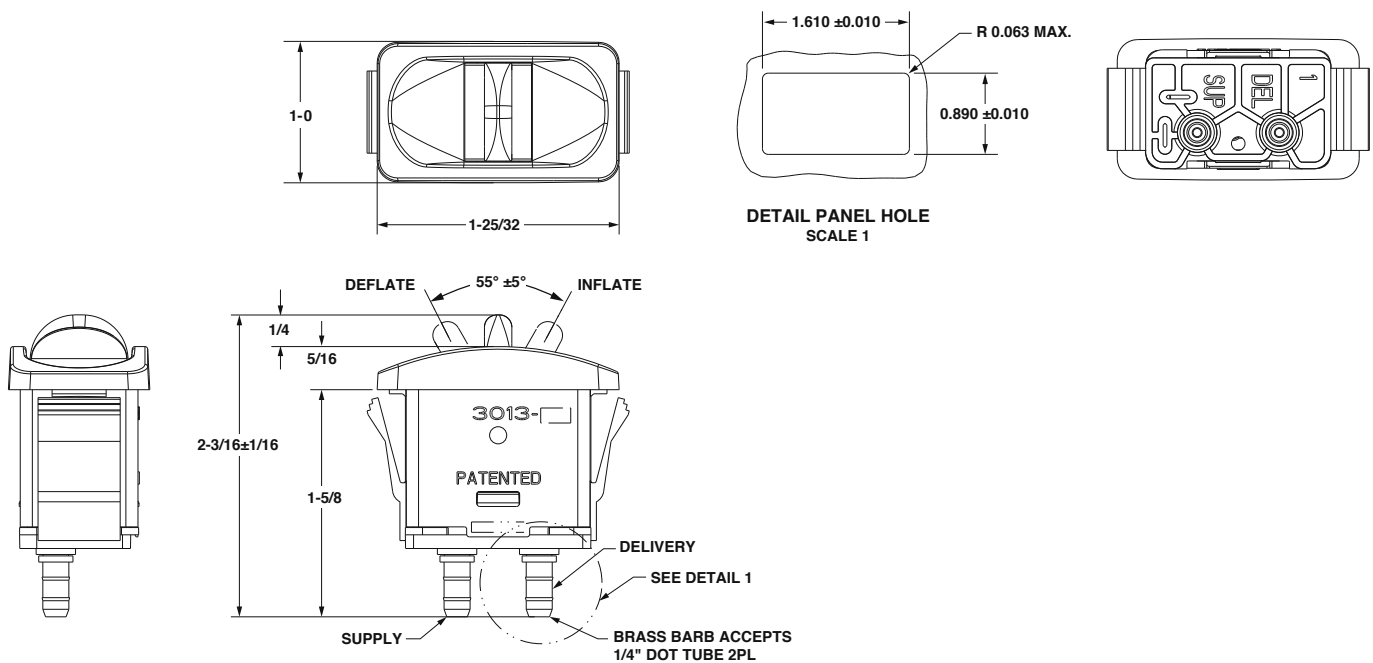
Material:

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:

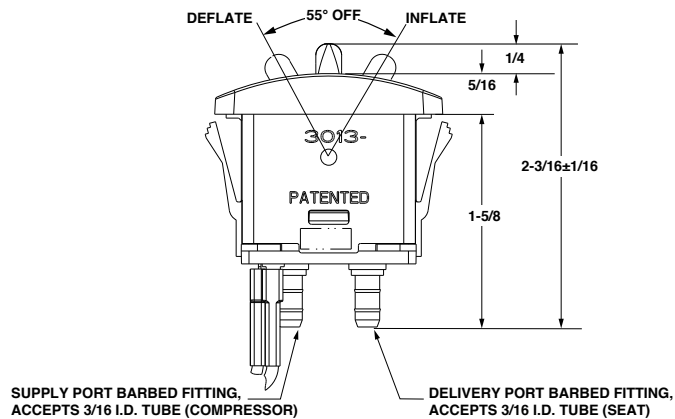
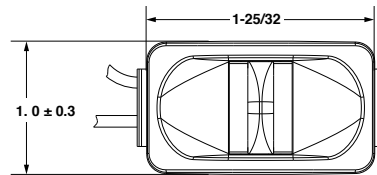
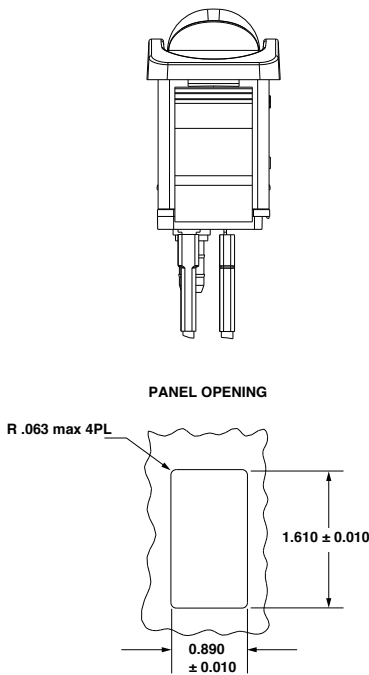
Paddle style

Electrical connection:

Wire assembly, terminal 1/4" blades

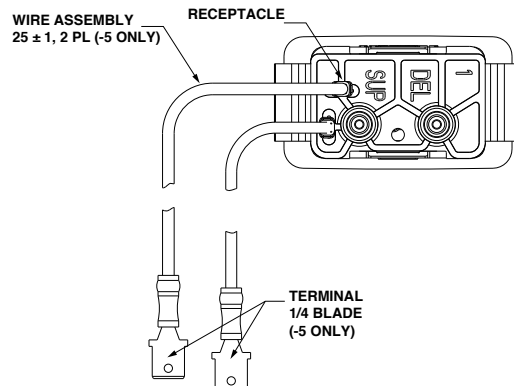


Dimensions (Inches)



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:

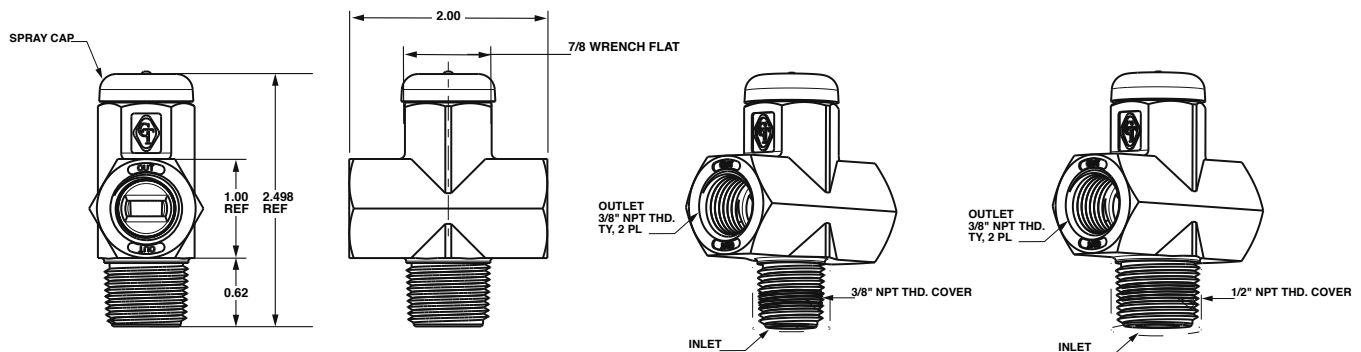
Zamak 3

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:

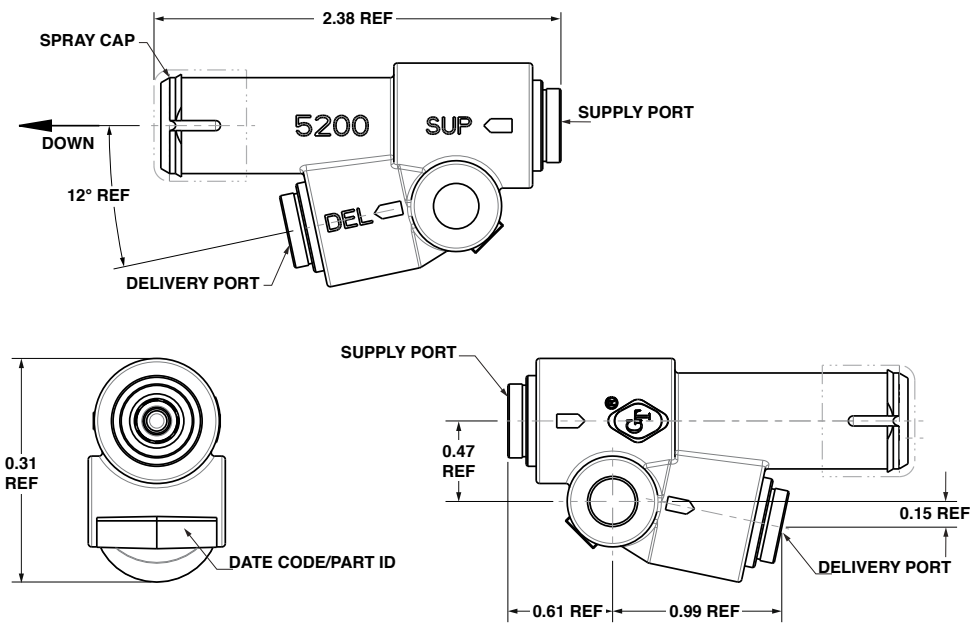
Thermosplastic body with Fluorosilicone seals

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
AI04000404074 ◆	3/8" PIF	3/8" PIF	3/8" PIF
AI06000606074 ◆	10mm PIF	10mm PIF	10mm PIF
AI06000648473 ◆	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

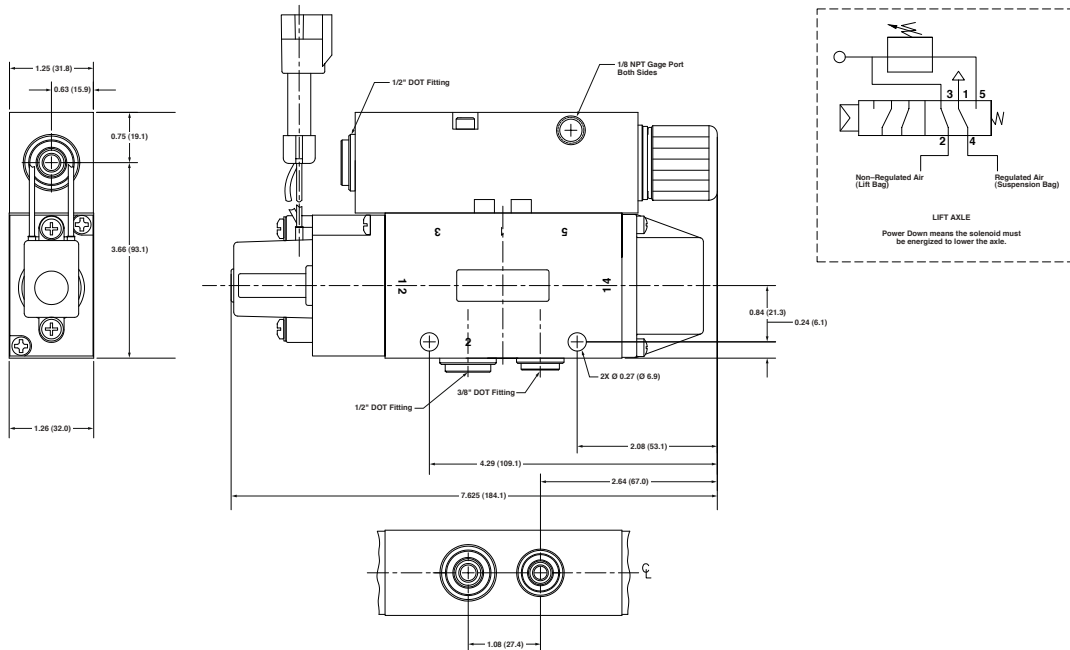
Materials:

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.

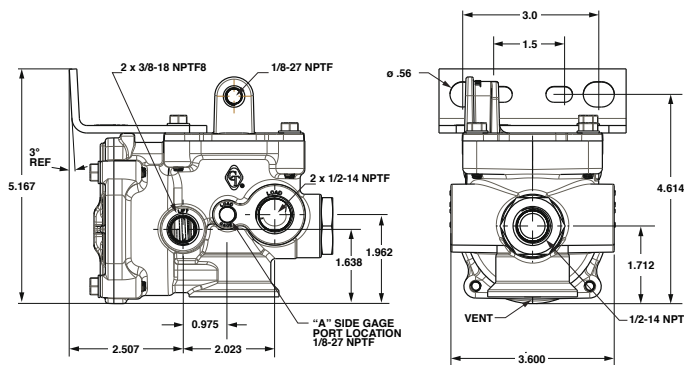
Material:

Cast aluminum body with thermoplastic pistons and low temperature nitrile seals

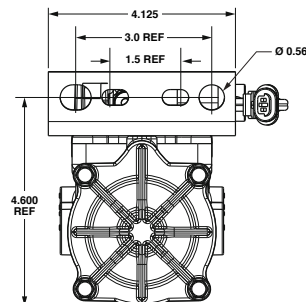
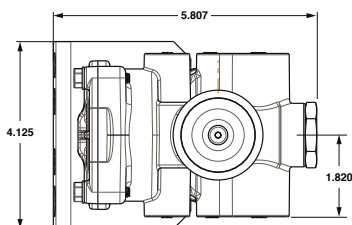
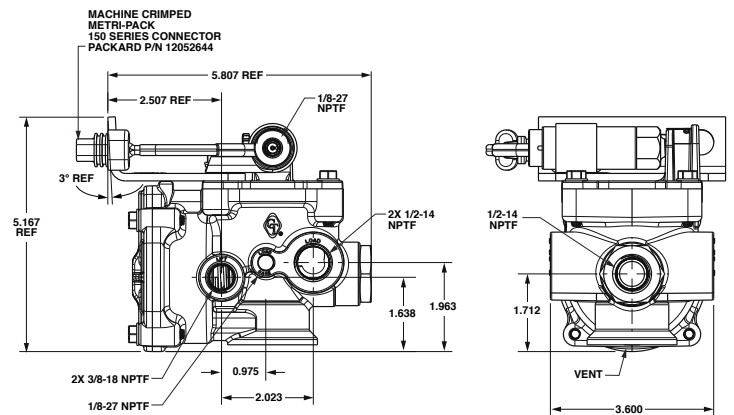


Dimensions (Inches)

5040-111-01C

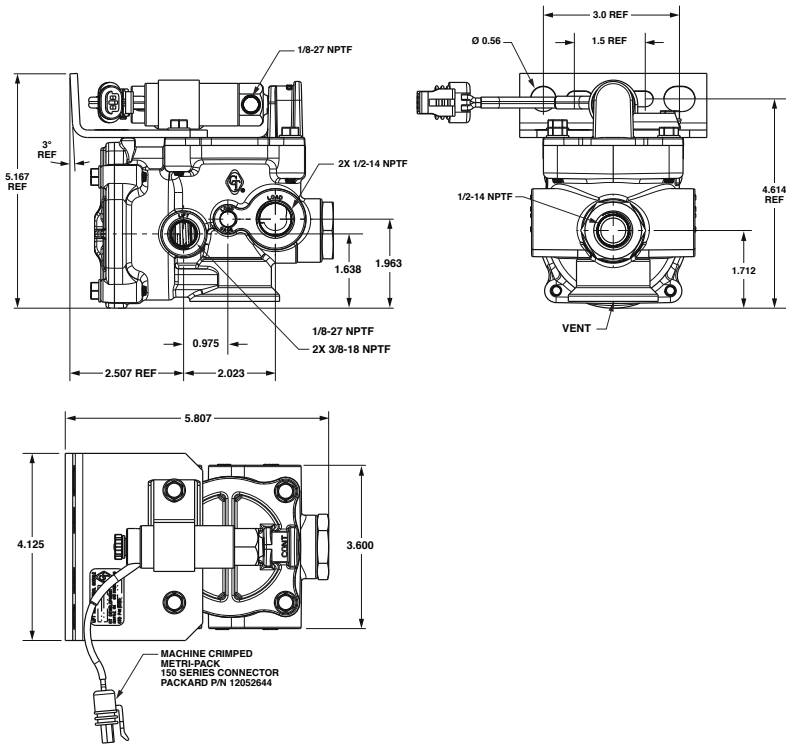


5040-211-01C



- In stock
- ◆ Ships within one week

5040-311-01C



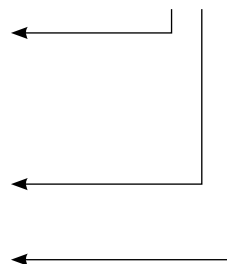
Models

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
Check Valve	Substitute
Check Valve	1
Gage Port	Substitute
'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

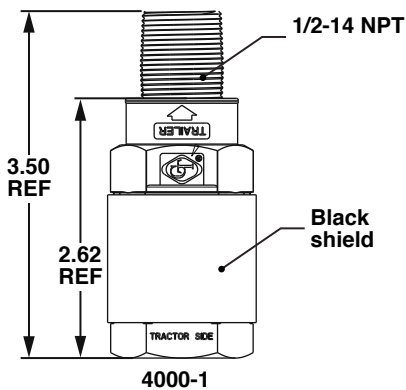
Nipple size:

1/2" PTF male

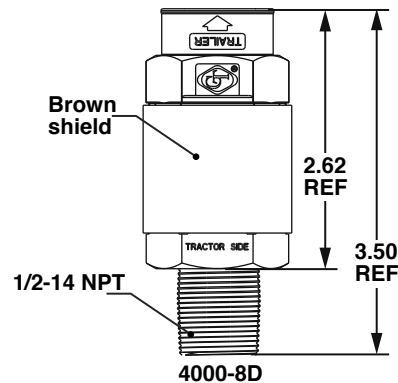


Dimensions (Inches)

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

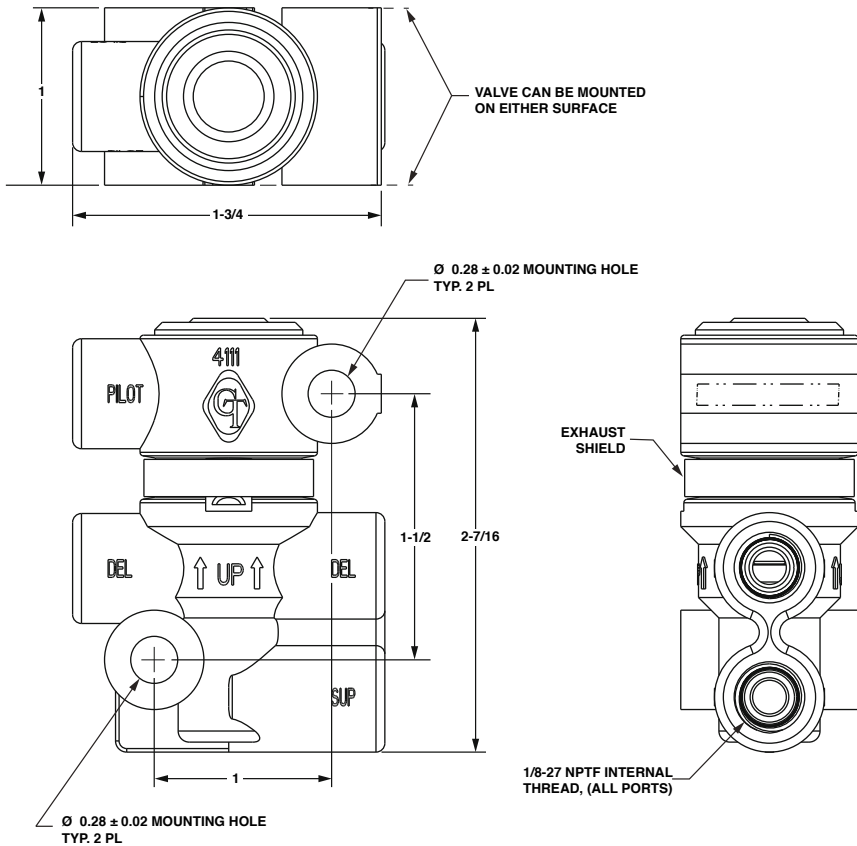
3-way, pilot-operated, normally open valve
2 delivery ports
Chassis-mounted on heavy-duty highway vehicles with air-ride suspensions

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



Dimensions (Inches)



Models

Model	Port Size
4111-2 ●	1/8" PTF

- In stock
- ◆ Ships within one week

COMMERCIAL VEHICLE

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)

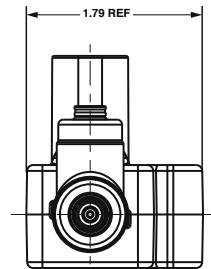
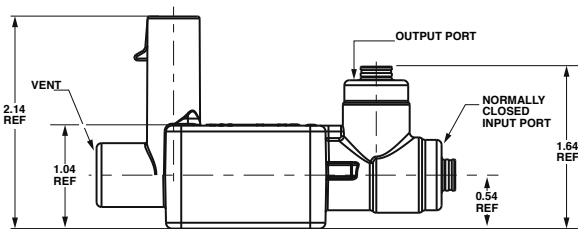
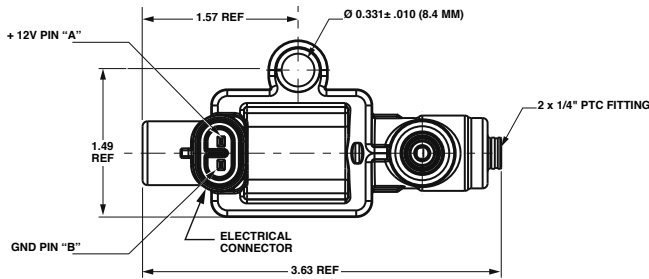
-40°F to 200°F (5030-310B)

Operating voltage:

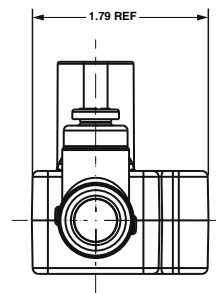
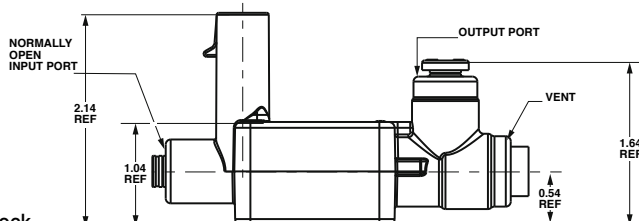
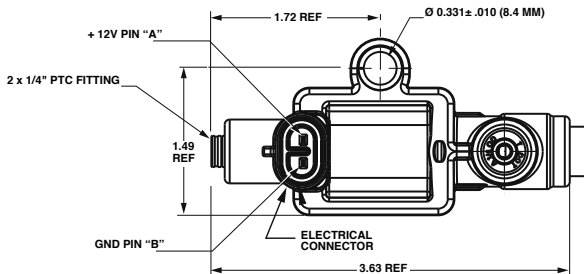
9 to 16 volts

Dimensions (Inches)

5030-111



5030-211

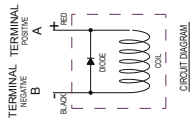
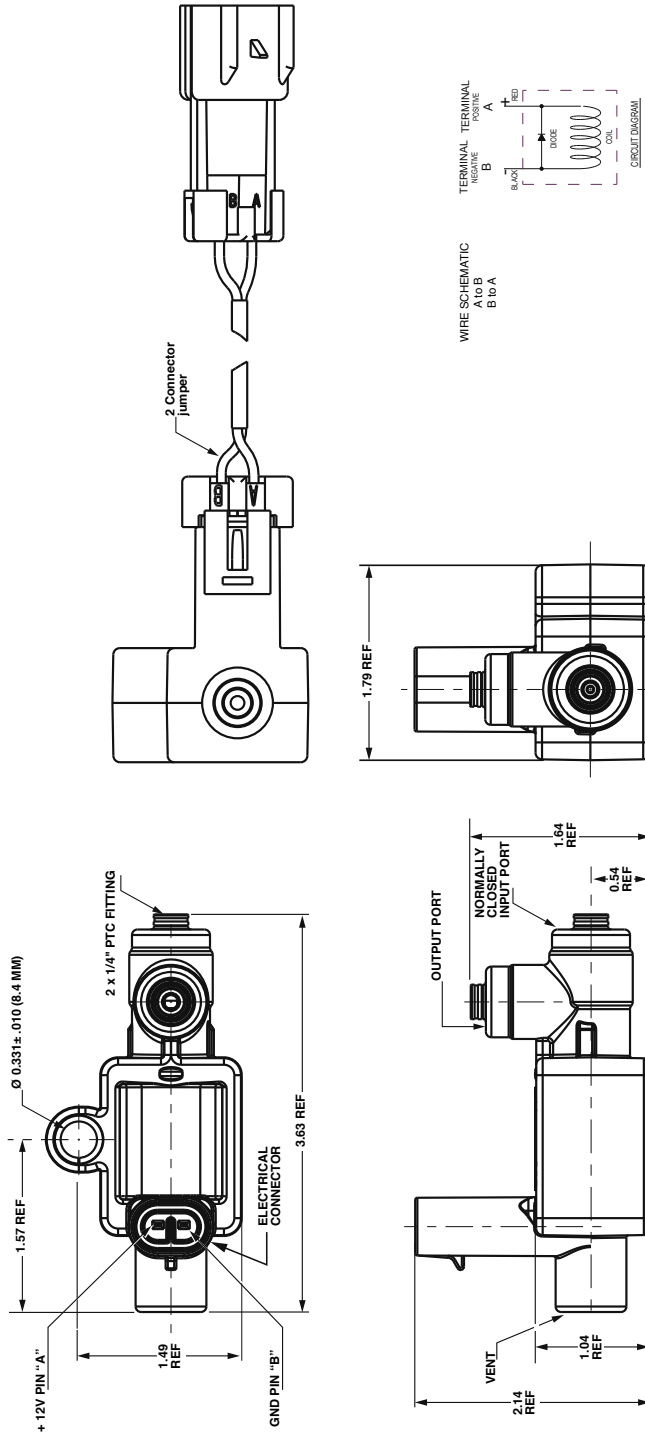


- In stock
- ◆ Ships within one week



Dimensions (Inches)

5030-310B



COMMERCIAL VEHICLE

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:

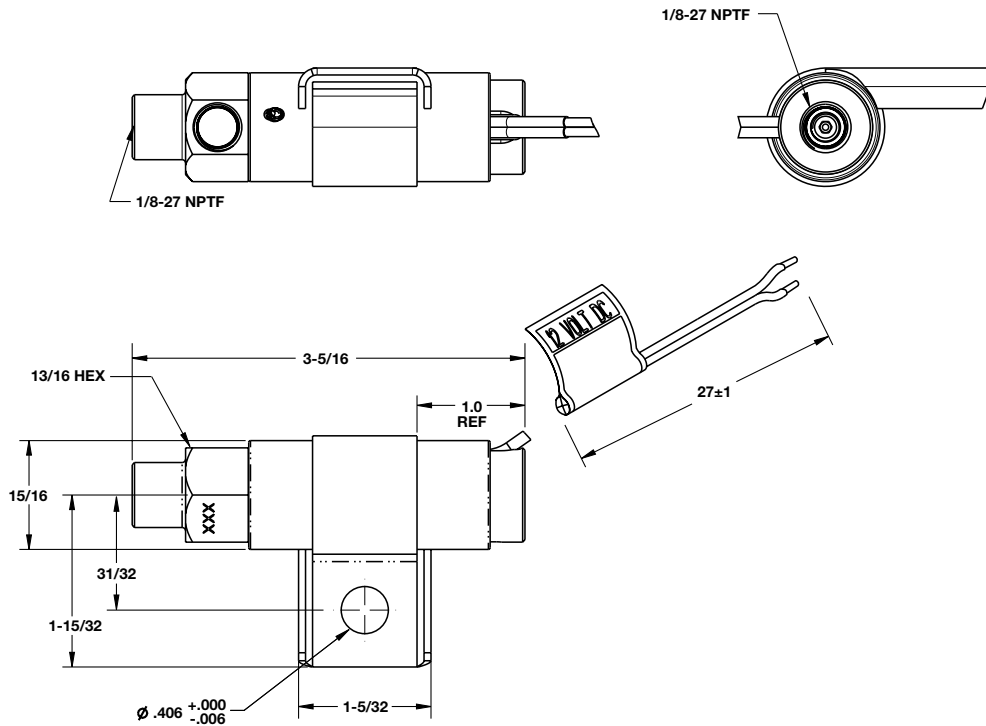
12 VDC

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:

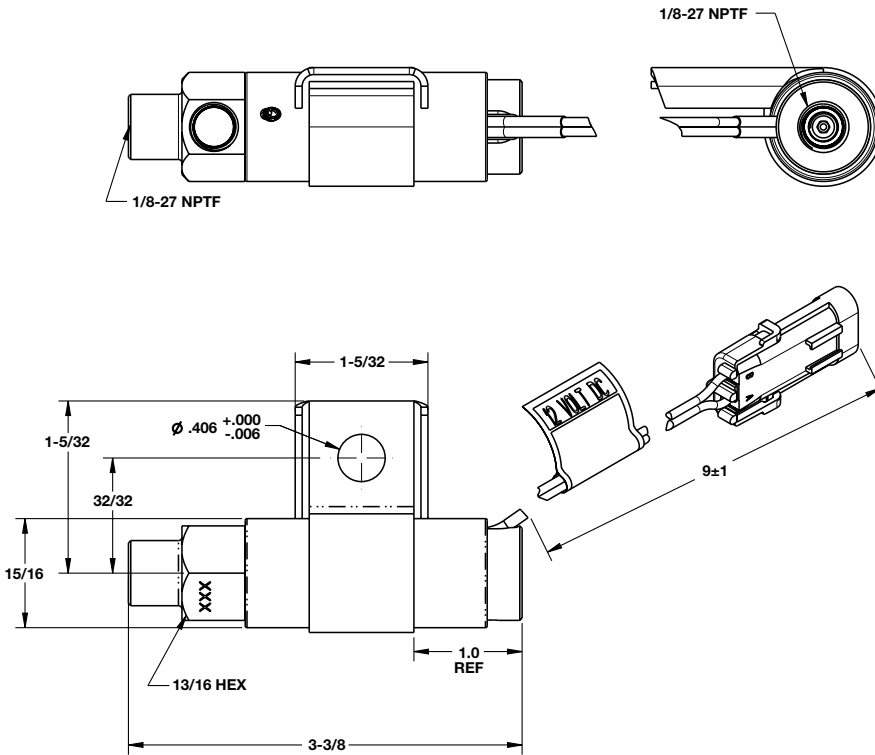
Flying lead with weather pack seal

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
 5050 ●	 5060-1 ●

- 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

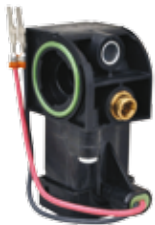
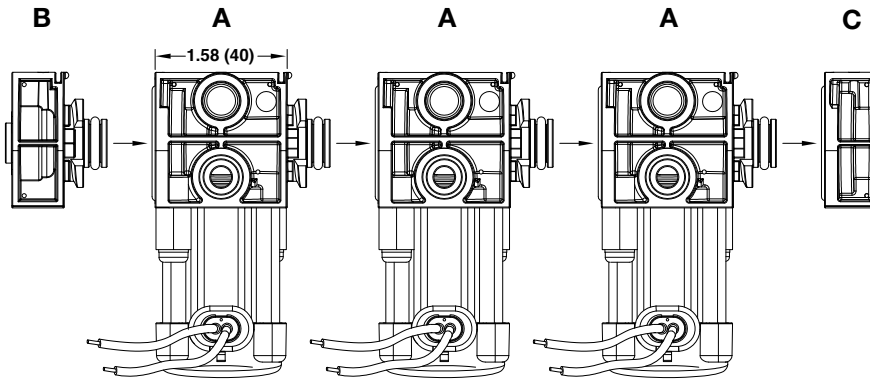
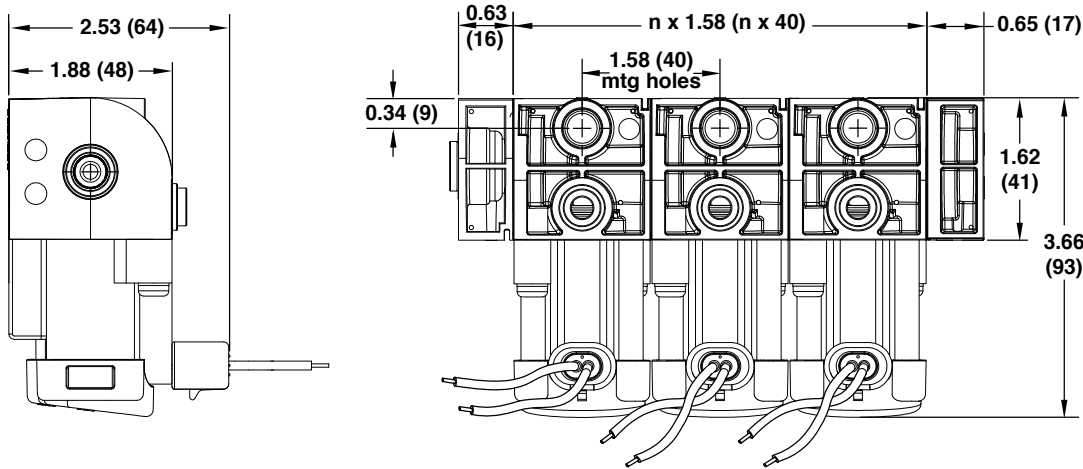
Standards and Legislation

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

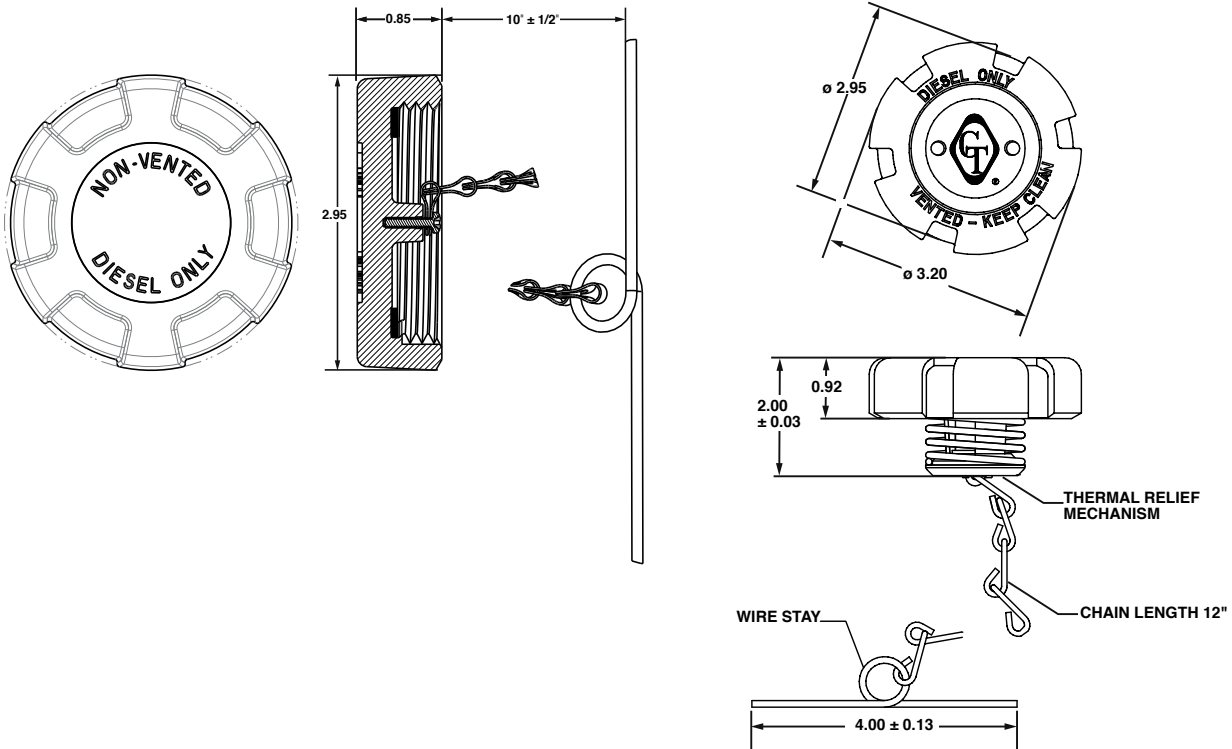
Models

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

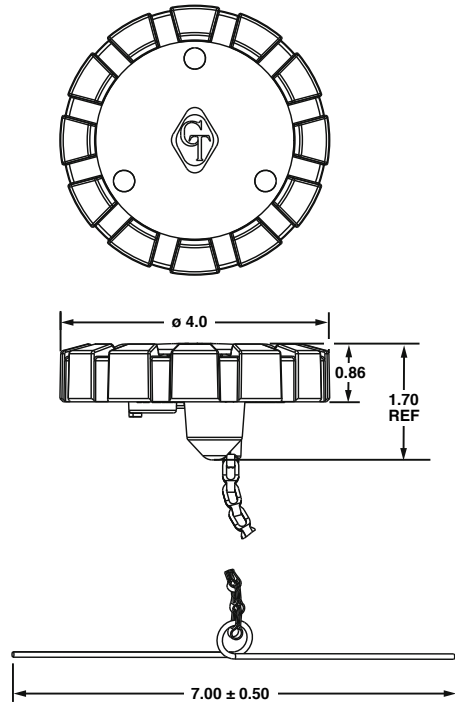
8103 and 8105



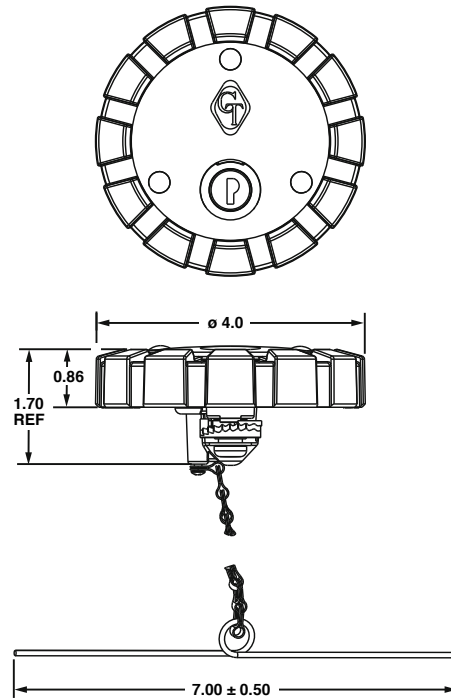
- In stock
- ◆ Ships within one week

Dimensions (Inches)

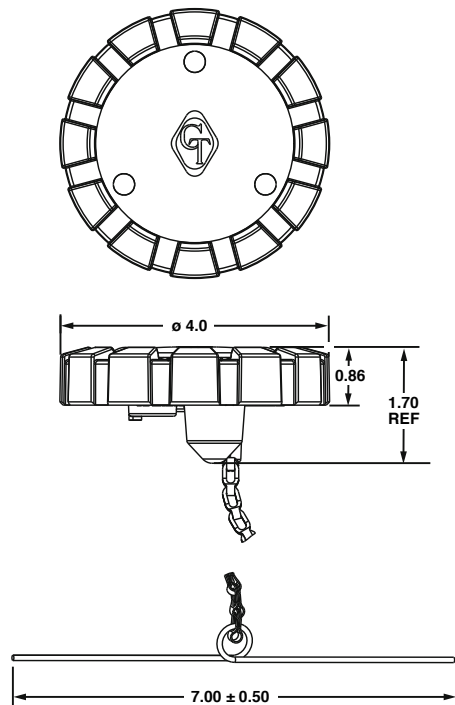
8110-1



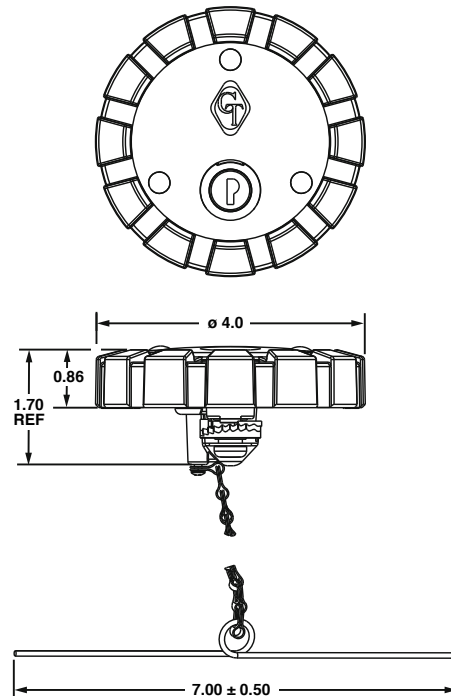
8111-1



8120



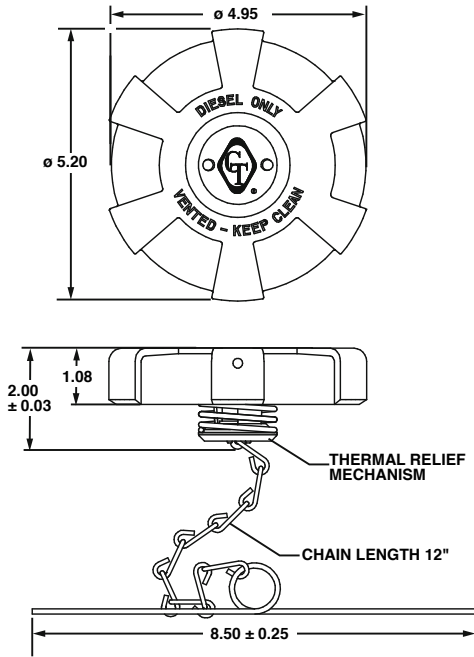
8121



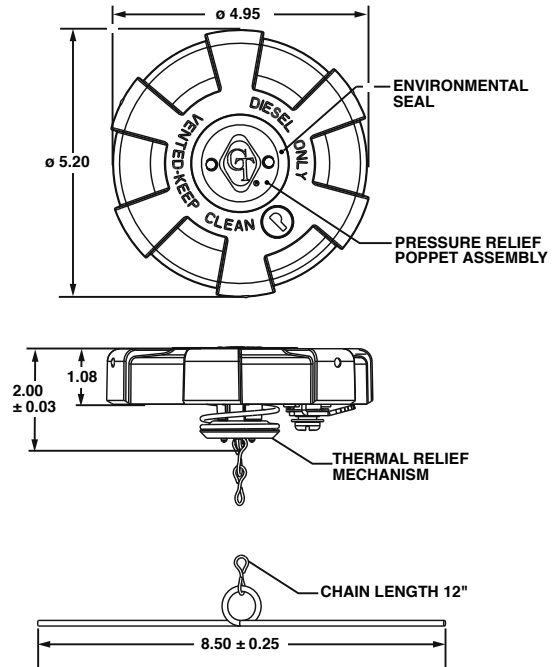
- In stock
- ◆ Ships within one week

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

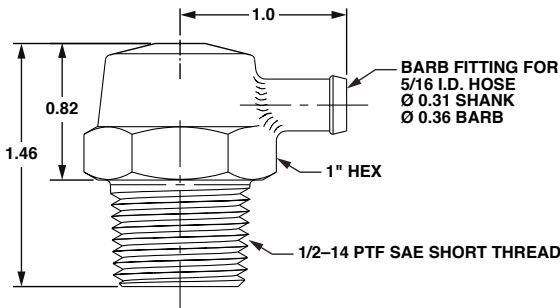
Hex size:

1.0"



Dimensions (Inches)

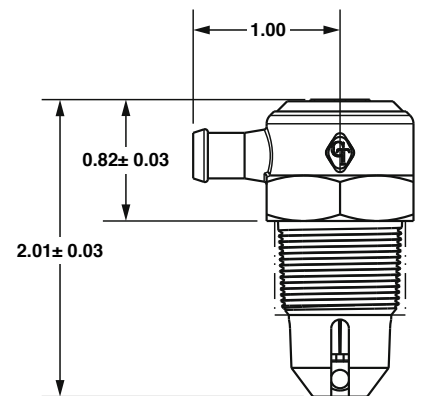
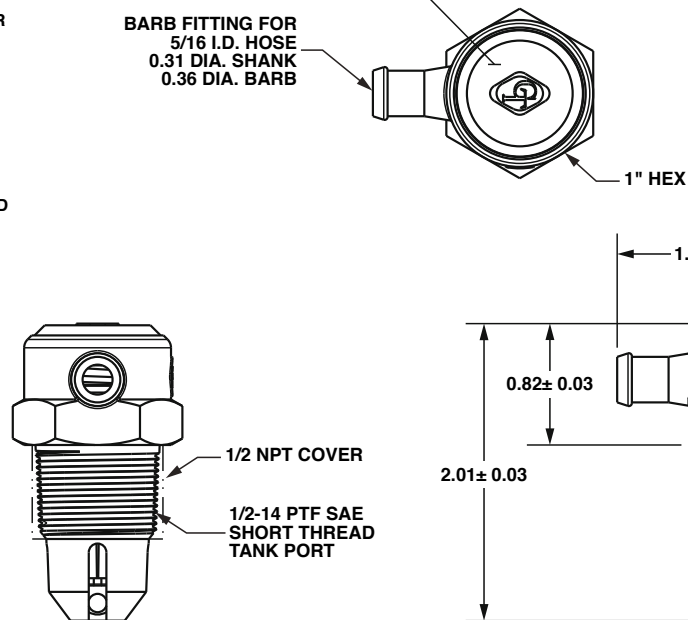
201-X



2113-1

YELLOW/GOLD FINISHED TOP

BARB FITTING FOR
5/16 I.D. HOSE
Ø 0.31 DIA. SHANK
0.36 DIA. BARB



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

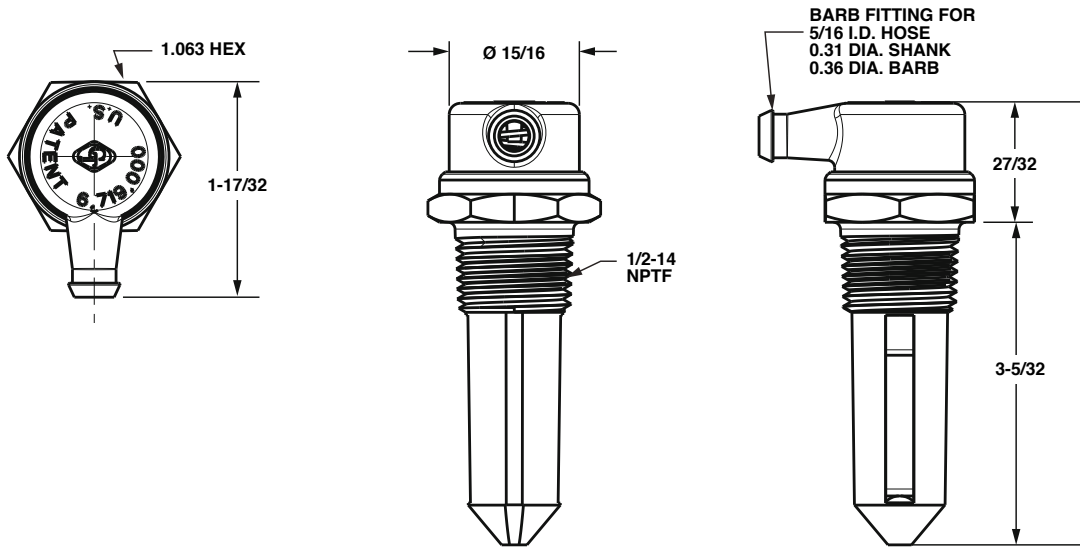
Overflow hose diameter:
5/16" ID

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:

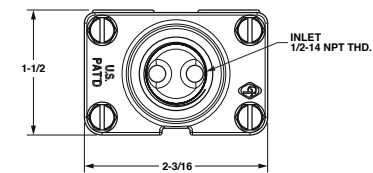
A2252-2D: Fuel flow of 60 GPH the back pressure is approximately 13 inches H₂O when both ports are open, and 30 inches when the ports are closed

2252-1: Fuel flow of 60 GPH, the back pressure is approximately 20 inches H₂O

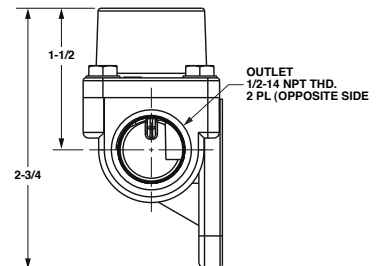
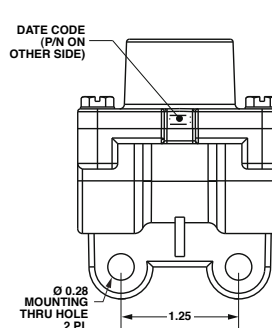
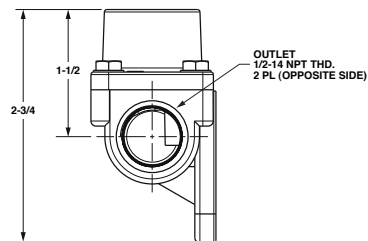
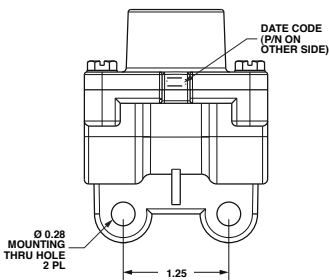
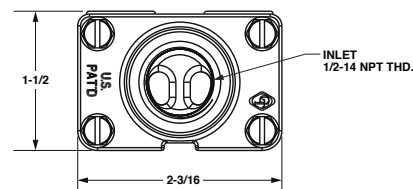


Dimensions (Inches)

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

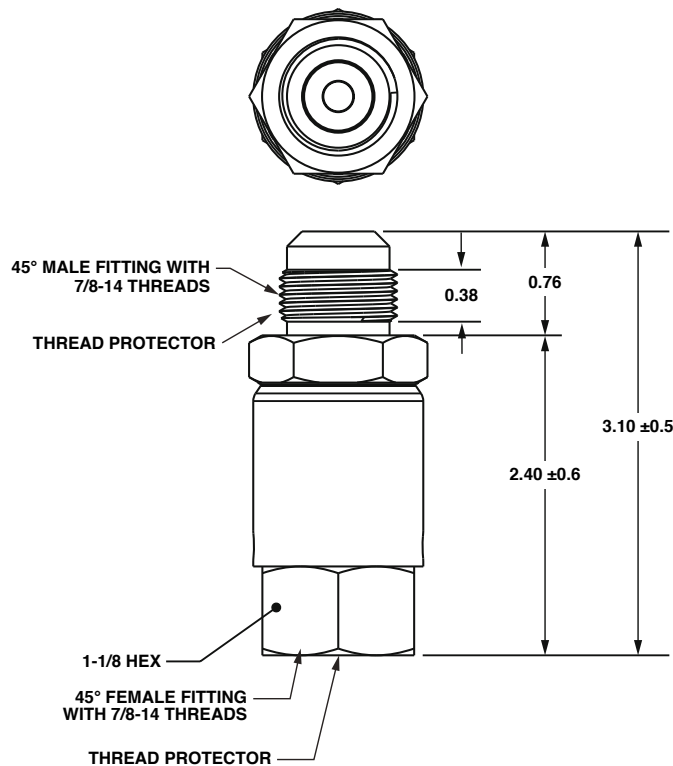


Technical data

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)

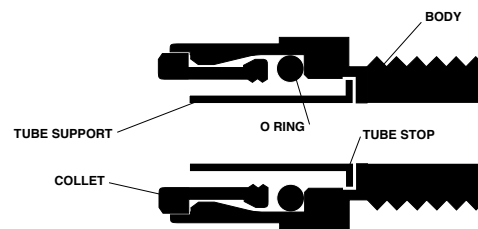
Standards and legislation:

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:

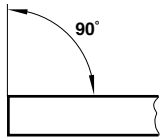
The tube support prevents the tube collapsing during extreme tensile loading conditions. Such conditions are only encountered during performance testing and far exceed those experienced during normal use.

● In stock

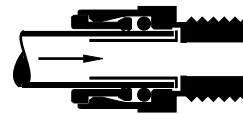
◆ Ships within one week

Dimensions in inches (mm).

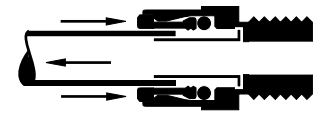
Tube Connection/Disconnection



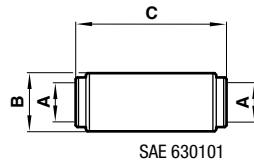
1. Ensure that the end of the tube is cut square and is free from burrs.
2. Push the tube through the collet into the fitting.



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.

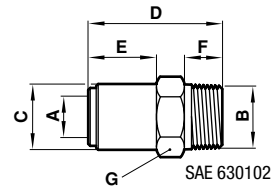


4. To disconnect: First ensure there is no air present. Push the tube into the fitting until it bottoms on the tube stop. Then hold down the collet and withdraw the tube.



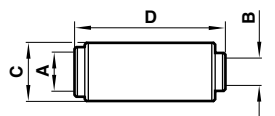
Union

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



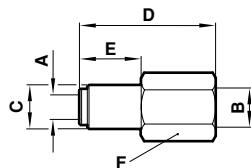
Male Connectors NPT

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"



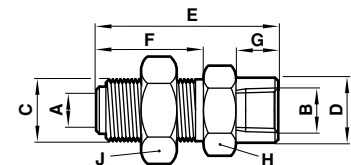
Reducing Unions (Inch)

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

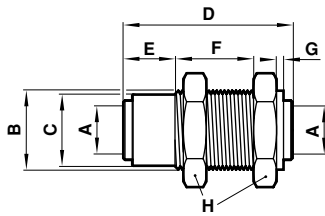
Models	A Tube O/D	B NPT	ØC	D	E	F
95435504M ●	1/4"	1/8"	0.51	1.31	0.72	9/16"
95435520M ●	3/8"	3/8"	0.65	1.78	0.88	7/8"
95435530M ●	1/2"	1/2"	0.91	2.11	0.96	11/16"



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"

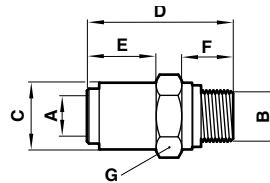
- In stock
- ◆ Ships within one week



Bulkhead Unions

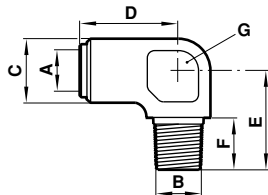
SAE 630103

Models	A Tube O/D	B Thread	Panel Hole ø	ØC	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)

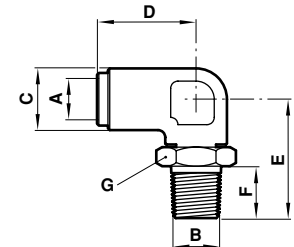
Models	A Tube O/D	B Thread	ØC	D	E	F	A/F
94466631M	● 1/4"	M1 - x 1.0	0.51 (13.0)	1.12 (28.5)	0.53 (13.5)	0.39 (10.0)	0.55 (14)
94466633M	● 1/4"	M12 x 1.5	0.51 (13.0)	1.12 (28.5)	0.53 (13.5)	0.39 (10.0)	0.67 (17)
94466653M	● 3/8"	M12 x 1.5	0.51 (13.0)	1.12 (28.5)	0.53 (13.5)	0.39 (10.0)	0.67 (17)
9446665BP	● 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	ØC	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



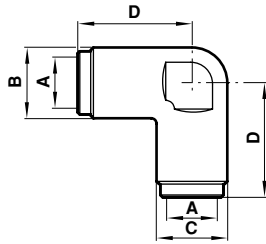
Male Swivel Elbows NPT

SAE 6302AA

Models	A Tube O/D	B NPT	ØC	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.

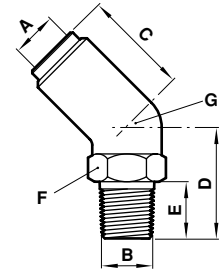
- In stock
- ◆ Ships within one week



Union Elbows

SAE 630201

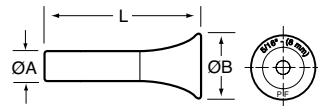
Models	A Tube O/D	ØB	ØC	D
94451104BP ●	1/4"	0.43	0.51	0.83
94451106M ●	3/8"	0.57	0.67	1.07
94451107M ●	1/2"	0.71	0.81	1.26



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	-

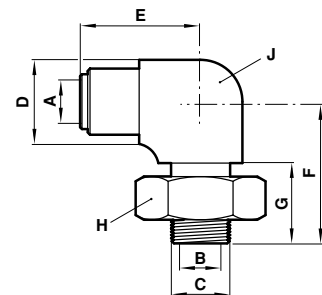


Plug*

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

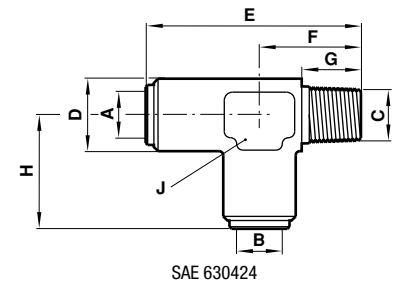


SAE 631403

Male Bulkhead Elbows, NPT Female, UNF

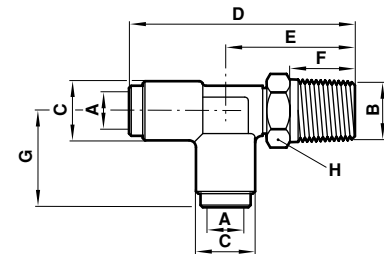
Models	A Tube O/D	B NPT Female	C UNF	ØD	E	F	G	H A/F	J A/F
95459704M ●	1/4"	1/8"	5/8"	0.81	1.00	1.18	0.63	15/16"	0.87
95459702M ●	1/2"	3/8"	7/8"	1.02	1.33	1.61	0.98	1-5/16"	0.67

- In stock
- ◆ Ships within one week



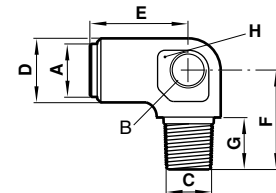
Male Run Tees NPT

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



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

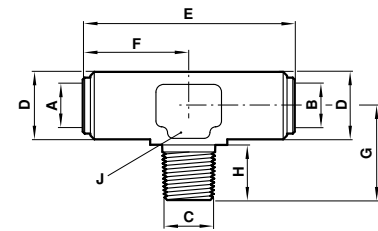


90° Fixed Tee

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.

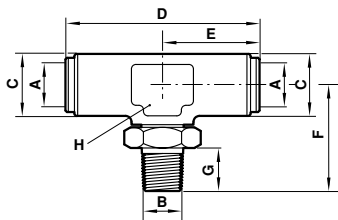
- In stock
- ◆ Ships within one week



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

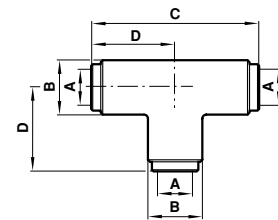


SAE 6304AC

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

PART NUMBER	PAGE	PART NUMBER	PAGE
3000	CV-13	12415**	FIT-06
5050	CV-26	1242**	FIT-24
8030	VAL-76	12425**	FIT-06
49020	ACT-04	12426**	FIT-06
49020	ACT-14	12445**	FIT-06
49021	ACT-04	12447**	FIT-06
49021	ACT-14	12448**	FIT-07
298211	VAL-76	12454**	FIT-07
000000**	VAL-94	12467**	FIT-07
010**	SAS-19	12468**	FIT-07
010**	SAS-21	127**	SAS-19
0100**	VAL-35	12VA0**	FIT-32
011**	SAS-25	12VB0**	FIT-33
025008**	VAL-73	130**	SAS-27
025047**	VAL-73	134-4	CV-10
0255**	SAS-15	1340**	SAS-16
030**	VAL-58	1344**	SAS-20
050**	SAS-21	1347**	SAS-16
0507**	SAS-15	1348**	SAS-24
0508**	SAS-17	1546**	SAS-27
0509**	SAS-17	16-004**	APP-68
051**	SAS-21	1628**	SAS-27
0511**	SAS-22	1629**	SAS-27
052**	SAS-24	1632**	SAS-27
0689**	SAS-15	17-001	APP-69
0708**	SAS-27	17-016	APP-70
0768**	SAS-17	17-020**	VAL-76
0769**	SAS-17	175**	LS-11
0774*	SAS-17	176**	LS-07
08600**	SAS-10	176**	LS-11
08608**	SAS-10	176**	LS-11
0863**	SAS-08	18-001**	APP-50
088**	SAS-04	18-001**	APP-56
088**	SAS-06	18-013-913	APP-56
1002**	FIT-23	18-013**	APP-11
1004**	FIT-23	18-013**	APP-71
1006-11	CV-04	18-999-412	APP-48
1006**	FIT-23	181**	LS-07
1007**	SAS-27	184**	LS-11
1012**	FIT-24	187**	LS-11
1014**	FIT-24	187**	SAS-18
1014**	FIT-25	188**	LS-11
1022**	FIT-23	195**	LS-11
1024**	FIT-25	1970-11	APP-52
1038**	SAS-27	201**	CV-34
1047**	SAS-27	2113-1	CV-34
11-002**	APP-49	220**	LS-09
11-008**	APP-50	2200-1	CV-37
11-009**	APP-65	222***	VAL-35
11-018**	APP-53	223**	CV-16
11-042**	APP-50	2252-1D	CV-36
11-044**	APP-62	2273-18	APP-59
11-104	APP-52	231**	LS-09
12004**	FIT-07	231**	LS-09
1202**	FIT-23	232**	LS-04
12020**	FIT-05	233**	LS-04
12023**	FIT-05	2339-04	APP-48
12029**	FIT-05	235**	LS-04
12040**	FIT-05	235**	SAS-22
12060**	FIT-05	237**	LS-11
1208**	FIT-24	239**	VAL-26
12082**	FIT-05	244**	LS-09

PART NUMBER	PAGE	PART NUMBER	PAGE
244**	LS-09	4315**	APP-09
246**	LS-11	4324**	APP-07
249**	VAL-96	4324**	APP-09
251-12B	CV-11	4338**	APP-07
251-21A	CV-12	4344**	APP-09
253**	LS-05	4355-51	APP-11
253**	LS-11	4380**	APP-06
254**	LS-11	4380**	APP-07
2574**	SAS-15	4380**	APP-09
26360**	VAL-93	4381**	APP-11
266**	LS-11	4382**	APP-05
275**	LS-11	4383**	APP-05
2787**	APP-53	4384-700	APP-18
279**	LS-09	4424**	APP-07
279**	LS-09	4424**	APP-09
283**	LS-05	4438**	APP-05
284**	SAS-16	4438**	APP-07
2962-04	APP-39	4444**	APP-09
2962-89	APP-39	48C34**	CV-29
297**	VAL-76	49013A	ACT-14
2989-11	CV-35	49015A	ACT-04
301**	LS-05	49015A	ACT-14
3013-4	CV-14	49028A	ACT-04
3013-5	CV-15	49028A	ACT-14
31302-1	CV-30	49030A	ACT-04
3200-1A	CV-06	49030A	ACT-14
3202-1A	CV-07	4LF**	FIT-45
3220-1	CV-08	5025-1	CV-27
3222-1	CV-09	5030**	CV-25
3281**	CV-05	5040*	CV-21
3407-02	APP-66	5060-1	CV-26
3407-17	APP-63	5086-55	APP-66
3407-22	APP-37	5095-51	APP-66
3407-71	APP-61	5191**	APP-51
3407-93	APP-64	520**-SS	ACT-50
3652-17	APP-35	5200-75	CV-17
373**	SAS-23	5226-51	APP-44
3795-03	APP-34	529-03	APP-49
3820-08	APP-61	5292**	APP-48
3820-12	APP-34	5298**	APP-65
3820-12	APP-38	5301-51	APP-45
4000**	CV-22	5311-01	APP-42
4011**	VAL-57	5311-03	APP-41
4020**	APP-09	534**	VAL-53
4022**	VAL-92	5351-04	APP-43
4055**	APP-16	542**	VAL-48
4111-2	CV-23	542**	VAL-68
4158**	APP-50	544**	VAL-28
4209-03	APP-18	54469-**	VAL-28
4214**	APP-06	546**	VAL-52
4214**	APP-09	548**	VAL-69
4215**	APP-06	549**	VAL-56
4215**	APP-09	54933-**	VAL-71
4224**	APP-06	54934-**	VAL-28
4224**	APP-09	54934-01	APP-20
4241**	APP-10	550**	LS-06
4255-51	APP-05	551**	LS-06
4255-51	APP-11	5570-04	APP-44
4314**	APP-07	5578-02	APP-41
4314**	APP-09	5578-05	APP-41
4315**	APP-07	570-51	APP-66
4315**	APP-07	5771-02	APP-41

PART NUMBER	PAGE	PART NUMBER	PAGE
5797**	APP-09	B38**	APP-57
5882**	APP-46	B64G**	APP-28
5925-02	APP-05	B68E**	APP-28
5925**	APP-06	B72G**	APP-14
5925**	APP-09	B73G**	APP-15
5939-06	APP-35	B74G**	APP-15
5945-40	APP-47	BG3200	APP-72
5945-41	APP-51	BG4200	APP-72
5945-50	APP-46	BL64**	APP-23
5950-01	APP-48	BL7**	APP-05
5952**	APP-48	C/1460**	ACT-58
5PG**	APP-71	C/1461**	ACT-60
5VS**	FIT-45	C/8**	FIT-37
616-01	APP-63	C/P19**	VAL-26
6212**	APP-42	C/S*	FIT-30
6336-50	APP-59	C00**	VAL-70
65.**	VAL-26	C0004**	FIT-12
695-01	APP-50	C002**	FIT-28
7201**	CV-29	C004**	FIT-28
7202**	CV-29	C006**	FIT-28
7203**	CV-29	C008*	FIT-28
7239**	CV-29	C00G**	FIT-28
74316-50	APP-11	C012**	FIT-27
74504**	APP-25	C014**	FIT-27
74630-04	APP-56	C016**	FIT-27
763**	SAS-16	C022**	FIT-27
808**	SAS-27	C024**	FIT-27
81**	CV-30	C0K5**	FIT-27
81**	CV-31	C0SA**	FIT-33
8112**	VAL-73	C0T**	FIT-28
8241**	VAL-87	C10**	VAL-54
8263**	VAL-84	C200**	FIT-28
8264**	VAL-86	C2004**	FIT-12
8274**	VAL-90	C2012**	FIT-12
8449**	VAL-91	C2020**	FIT-12
85020-0	CV-26	C2020**	FIT-14
94.**	VAL-09	C2022**	FIT-12
949**	FIT-44	C2022**	FIT-14
95403701M	CV-18	C2023**	FIT-14
971**	VAL-84	C2023**	FIT-16
97100**	VAL-94	C2023**	FIT-16
A0133A1**	ACT-05	C2029**	FIT-12
A0133B1**	ACT-05	C2040**	FIT-13
A0177A1**	ACT-06	C2043**	FIT-13
A0177B1**	ACT-06	C2060**	FIT-13
A0333A1**	ACT-08	C2063**	FIT-13
A0333B1**	ACT-08	C2064**	FIT-13
A0377A1**	ACT-09	C2064**	FIT-14
A0377B1**	ACT-09	C206A**	FIT-14
A1	VAL-55	C2082**	FIT-13
A10**	VAL-54	C2082**	FIT-14
A1233A1**	ACT-11	C2084**	FIT-13
A1233B1**	ACT-11	C2084**	FIT-14
A1277A1**	ACT-12	C2090**	FIT-13
A1277B1**	ACT-12	C20GE**	FIT-38
A2252-2D	CV-36	C20GF**	FIT-17
A10*	CV-18	C20GL**	FIT-34
AJK**	ACT-05	C20GP**	FIT-38
B05**	APP-61	C2425**	FIT-09
B07**	APP-38	C2426**	FIT-09
B38**	APP-54	C242A**	FIT-09
B38**	APP-56	C2432**	FIT-09

PART NUMBER	PAGE	PART NUMBER	PAGE
C2447**	FIT-10	F07**	APP-35
C2448**	FIT-10	F10**	VAL-55
C2454**	FIT-10	F17**	APP-41
C2467**	FIT-11	F18**	APP-46
C2468**	FIT-11	F22**	APP-59
C246C**	FIT-11	F39-KIT0C	APP-36
C2488**	FIT-10	F39**	APP-36
C24G2**	FIT-35	F46**	APP-43
C24G3**	FIT-35	F64B**	APP-26
C24GG**	FIT-17	F64G**	APP-24
C24GH**	FIT-17	F68E**	APP-24
C24GJ**	FIT-17	F72C**	APP-08
C2E5**	FIT-11	F72G**	APP-06
C2F5**	FIT-11	F72V**	APP-10
C2G5**	FIT-11	F73C**	APP-08
C2R51**	FIT-11	F73G**	APP-07
C2VA**	FIT-33	F74C**	APP-08
C2WA**	FIT-33	F74G**	APP-07
C72H**	APP-22	F74H**	APP-08
C73A**	APP-21	F74V**	APP-10
C74A**	APP-21	FB-*	ACT-40
C74H**	APP-22	FP**	ACT-55
CC	VAL-55	FRE-*	ACT-54
CC-1-**	ACT-04	J0133A1**	ACT-15
CR0**	VAL-70	J0133B1**	ACT-15
CS7-**	ACT-04	J0177A1**	ACT-16
CS7-**	ACT-62	J0177B1**	ACT-16
CS8-**	ACT-62	J0333A1**	ACT-18
CS8-2**	ACT-04	J0333B1**	ACT-18
CSK-**	ACT-06	J0377A1**	ACT-19
CY	VAL-55	J0377B1**	ACT-19
D10**	VAL-54	J1233A1**	ACT-21
D2020**	FIT-20	J1233B1**	ACT-21
D2020**	FIT-21	J1277A1**	ACT-22
D2023**	FIT-21	J1277B1**	ACT-22
D2029**	FIT-19	K32	VAL-49
D2040**	FIT-20	K41**	VAL-67
D2043**	FIT-20	K71**	VAL-68
D2060**	FIT-20	K81**	VAL-69
D2082**	FIT-21	K91**	VAL-50
D20GF**	FIT-21	KA1	VAL-49
D2415**	FIT-19	KA2	VAL-48
D2425**	FIT-19	KAC	VAL-49
D2445**	FIT-19	KB0	VAL-67
DA/80**	ACT-37	KB3	VAL-67
DA/81**	ACT-37	KB31**	VAL-59
DPB-**	ACT-50	KF0	VAL-67
DRC-**	ACT-50	KL0	VAL-67
EA0155A1**	ACT-07	KL1	VAL-67
EA0155B1**	ACT-07	KL2	VAL-60
EA0355A1**	ACT-10	KL3	VAL-60
EA0355B1**	ACT-10	KP0	VAL-67
EA1255A1**	ACT-13	KR2	VAL-67
EA1255B1	ACT-13	KR4	VAL-67
EJ0155A1**	ACT-17	KT1	VAL-59
EJ0155B1**	ACT-17	KT2	VAL-60
EJ0355A1**	ACT-20	KV0	VAL-50
EJ0355B1**	ACT-20	KV1	VAL-49
EJ1255A1**	ACT-23	KV2	VAL-49
EJ1255B1**	ACT-23	KV2**	VAL-49
EJK-**	ACT-07	L07**	APP-39
F05**	APP-60	L17**	APP-45

PART NUMBER	PAGE	PART NUMBER	PAGE
L22**	APP-59	PE07**	FIT-44
L64C**	APP-32	PTH**	APP-34
L64M**	APP-32	PW00**	FIT-43
L68M**	APP-32	PW01**	FIT-43
L72C**	APP-16	PW07**	FIT-43
L72M**	APP-16	Q2**	VAL-85
L73C**	APP-16	QA/80**	ACT-37
L73M**	APP-17	QA/80**	ACT-39
L74C**	APP-17	QA/81**	ACT-36
L74M**	APP-17	QEV**	VAL-102
M/32**	FIT-44	QM/1460**	ACT-57
M/33**	FIT-44	QM/27/2/1	ACT-36
M/50**	ACT-36	QM/27/2/21	ACT-63
M/50/**	ACT-63	QM/80**	ACT-36
M/P194**	ACT-36	R05**	APP-61
M/P4**	ACT-57	R06**	APP-63
M/P74**	ACT-57	R07**	APP-37
M/S*	FIT-30	R17**	APP-44
M002**	FIT-29	R18**	APP-47
M022**	FIT-29	R22**	APP-59
M024**	FIT-29	R24**	APP-48
M2020**	FIT-16	R38**	APP-54
M2026**	FIT-16	R38**	APP-56
M2040**	FIT-16	R40**	APP-47
M2425**	FIT-15	R40**	APP-51
M2426**	FIT-15	R41**	APP-51
M242A**	FIT-15	R43**	APP-65
M2447**	FIT-15	R44**	APP-66
M2467**	FIT-15	R46**	APP-37
M2468**	FIT-15	R64G**	APP-30
MA00**	FIT-30	R68G**	APP-30
MA01**	FIT-30	R72G**	APP-12
MB00**	APP-18	R72M**	APP-11
MB00**	FIT-30	R73G**	APP-13
MBP0**	FIT-30	R74G**	APP-13
ML00**	VAL-70	R74M**	APP-11
MM00**	FIT-31	R81**	APP-67
MN-*	ACT-40	R82**	APP-67
MN01**	VAL-52	R83**	APP-66
MN03**	VAL-52	R84**	APP-67
MQ0**	FIT-30	R91W**	APP-64
MS00**	FIT-30	RBK-*	ACT-05
MS01**	FIT-30	RC-*	ACT-40
MV0**	FIT-31	RP0**	ACT-41
NC0**	ACT-33	RP1**	ACT-41
NC1**	ACT-33	RP2-*	ACT-44
ND0**	ACT-33	RP3-*	ACT-44
ND1**	ACT-33	RPD**	ACT-51
NE0**	ACT-33	RPDFB-*	ACT-50
NE1**	ACT-33	S-89-*	ACT-24
NF0**	ACT-33	S-92-*	ACT-24
NF1**	ACT-33	S-96-*	ACT-24
NG0**	ACT-33	SAB30403	SAS-30
NG1**	ACT-33	SAB30403	SAS-40
P72F**	APP-20	SC-1-*	ACT-24
P74F**	APP-20	SC0**	ACT-25
P8A**	APP-41	SC1**	ACT-25
PB-*	ACT-40	SCE**	SAS-41
PB00**	FIT-43	SCE1300**	SAS-30
PDA/182**	ACT-39	SCF**	SAS-41
PE00**	FIT-44	SD0**	ACT-25
PE01**	FIT-44	SD1**	ACT-25

PART NUMBER	PAGE		
SE0**	ACT-25	V51R**	VAL-47
SE1**	ACT-25	V52**	VAL-38
SF0**	ACT-25	V52S	VAL-47
SF1**	ACT-25	V53	VAL-39
SG0**	ACT-25	V53T	VAL-47
SG1**	ACT-25	V60**	VAL-28
SMH36004	SAS-32	V61**	VAL-28
SMH36005	SAS-33	V70**	VAL-09
SMH36006	SAS-34	V72G**	APP-18
SMH36008	SAS-35	V74G**	APP-18
SMH36010	SAS-36	VP100**	VAL-71
SMH36012	SAS-37	VP50**	VAL-71
SMH37004	SAS-32	VP50**	VAL-73/74
SMH37005	SAS-33	VP51**	VAL-75
SMH37006	SAS-34	VS-18**	VAL-04
SMH37008	SAS-35	VS-26**	VAL-10
SMH37010	SAS-36	X30**	VAL-58
SMH37012	SAS-37	X33**	VAL-61
SMR36006	SAS-30	Y01**	VAL-100
SMR36010	SAS-31	Y64A**	APP-25
SMR36012	SAS-31	Y68A**	APP-25
SMR37006	SAS-30	YR2ACA**	APP-55
SMR37010	SAS-31		
SMR37012	SAS-31		
SNP01012	SAS-31		
SNP01012	SAS-38		
SNP50608	SAS-30		
SNP50608	SAS-38		
SNS**	SAS-39		
SNS04	SAS-32		
SNS05	SAS-33		
SNS06	SAS-34		
SNS08	SAS-35		
SNS10	SAS-36		
SNS12	SAS-37		
SXE**	VAL-24		
SXP**	VAL-26		
T1000**	FIT-39		
T200A**	FIT-31		
T45Y**	FIT-31		
T55A**	FIT-36		
T56A**	FIT-36		
T60A**	FIT-40		
T64E**	APP-25		
T65A**	FIT-41		
T70A**	FIT-42		
T72E**	APP-19		
T74E**	APP-19		
U14**	VAL-76		
U24**	VAL-78		
U35**	VAL-81		
U65**	VAL-82		
V07-KIT	APP-40		
V07**	APP-40		
V10**	VAL-09		
V11**	VAL-09		
V40**	VAL-17		
V41**	VAL-16		
V45**	VAL-20		
V50**	VAL-36		
V50P**	VAL-47		
V51**	VAL-37		

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1

ACTUATORS

FAST FIND GUIDE PAGE ACT-A



2

VALVES

FAST FIND GUIDE PAGE VAL-A



3

SWITCHES AND SENSORS

FAST FIND GUIDE PAGE SAS-A



4

AIR PREPARATION

FAST FIND GUIDE PAGE APP-A



5

FITTINGS AND ACCESSORIES

FAST FIND GUIDE PAGE FIT-A



6

LIFE SCIENCES

FAST FIND GUIDE PAGE LS-A



7

COMMERCIAL VEHICLE

FAST FIND GUIDE PAGE CV-A



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