



**GATES S-SERIES INDUSTRIAL HOSE
COUPLING + FITTING
ACCESSORIES**

ENGINEERING & SERVICES



GATES Corporate Profile

Progress never stands still. And neither do we.

A GLOBAL FOOTPRINT

Gates Corporation sells products directly through a network of 150,000 valued partners worldwide.

Gates has enjoyed an international business presence for over 60 years and today is supported by over 14,000 employees, across 106 locations in 30 countries and regions in such diverse locations as North and South America, Europe, Middle East, and Africa, the entire Asia Pacific region, and India. The Gates Corporation World Headquarters is located in Denver, Colorado, employing more than 500 dedicated professionals.

Gates Corporation is a global, diversified industrial company that provides precision products, services, and systems for power transmission and fluid transfer applications that power progress and foster long-term customer and employee relationships. Gates advances the science of motion performance in ways that reduce total cost of ownership with an almost endless range of industrial and automotive solutions.

Gates hoses enable the movement of a wide range of fluids - from crude oil to chemicals to the finest wines. Gates belt systems transfer power to a wide variety of industrial equipment, from rock crushers to cement mixers and air conditioners to alternators. Gates hydraulic systems transmit power to all types of machines, from mining and construction equipment to agricultural equipment used to harvest and process the crops needed to feed the world. In short, if it moves you, there's a good chance Gates has a part in it.

A BRIEF HISTORY OF GATES

Over 100 years ago, when Charles C. Gates bought The Colorado Tire and Leather Company in 1911, little did he know his small shop in Denver would evolve into a leading rubber products company. The Gates Rubber Company, as it was called, grew into one of the world's largest manufacturers of industrial and automotive belts, hoses, and related products. In 1917, John Gates, Charles' brother, invented the rubber and fabric V-belt and made history. The belt's success propelled Gates to become the world's largest manufacturer of V-belts, a title it still holds today. In 2003, The Gates Rubber Company became Gates Corporation to reflect its expanding range of industrial brands, product lines, and customers. Now into the next 100 years of its history, Gates is focused on its enduring tradition of powering progress through engineering excellence. Gates. Powering Progress.

Gates Corporation is a global diversified industrial company that provides advanced power transmission and fluid transfer solutions by engineering products and services that reduce the total cost of ownership for a wide variety of applications.

Our products and services serve customers in five key end market segments: Energy/

Exploration/Extraction, Infrastructure & Agriculture, Transportation, Automotive, and Process & Specialty. As an engineering leader with a strong foundation in research and development, Gates is committed to advancing the science of motion performance by developing safe, forward-thinking products, services, systems, and solutions, as well as fostering long-term customer and employee relationships. Headquartered in Denver, Colorado, Gates employs over 14,000 people across 106 locations in 30 countries.

If it moves you, there's a good chance Gates has a part in it. Gates. Powering Progress.

For more information on Gates Corporation, visit Gates.com or contact corpcomm@gates.com.

Gates is a trusted partner in these major end markets:

- Energy/Exploration/Extraction
- Infrastructure & Agriculture
- Transportation
- Automotive
- Process & Specialty

Today's deeper drilling depths, directional drilling and advanced technologies demand products that maximize performance, quality and longevity.

Onshore or offshore, the search for energy is a 24/7/365 operation. Rig or support equipment component failure significantly affects production, personnel safety and can lead to catastrophic environmental consequences.

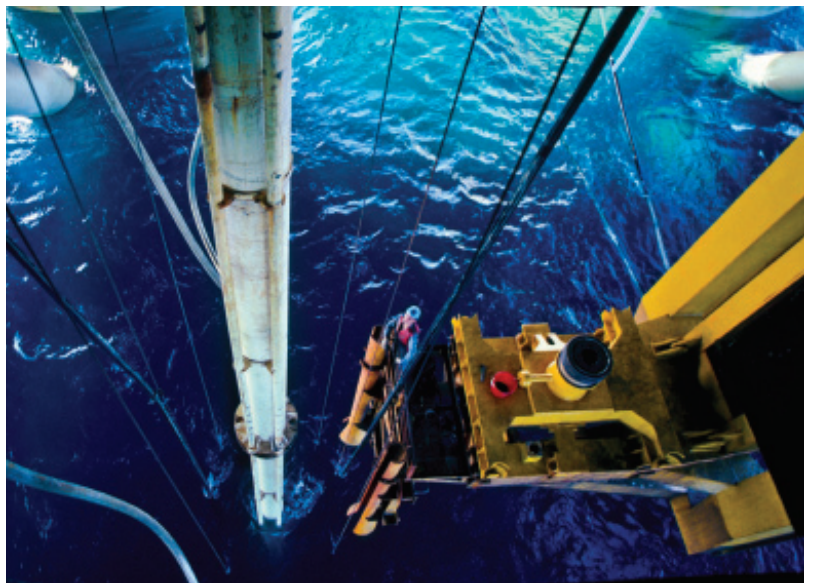


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FOR SAFETY'S SAKE

Avoid injury to yourself and others by following these important hose assembly steps:

WARNING

Serious injury, death and destruction of property can result from rupture or blow-apart of a hydraulic hose assembly that is:

- **Damaged or worn out**
- **Assembled or installed incorrectly**



Never underestimate the power of a blown hydraulic assembly.

1. Receive hands-on training with Gates recommended equipment.
2. Follow current Gates operating manual and crimp data.
3. Use only new [unused] Gates recommended hose and couplings with Gates crimpers.
4. Wear safety glasses.
- pressure and bend radius **do not exceed** recommended component limits.
4. Hose **must not** be stretched, kinked, crushed or twisted during installation or use. Hose **must not** be bent to less than the minimum bend radius.
5. Use **only** TH7NC, TH8NC, and TH18NC hose for **non-conductive** applications. For instance: cherry pickers. All other Gates hoses are electrically conductive.
2. **Only** properly trained persons should inspect test or service hose assemblies. Update training periodically.
3. **Document** maintenance, inspections and testing.
4. **AVOID FLUID INJECTION INJURIES**

Select and Install Assemblies

1. **Select proper hose assemblies for the application.** Many factors and conditions affecting the inside and outside diameter of the hose must be taken into account.
2. Hose assembly routing **must not** create an injury hazard or damage hose. Refer to the standards, regulations and directories that apply in the countries where the equipment is sold and used.
3. Select hydraulic components so that the application's temperature,

6. DO NOT USE HYDRAULIC HOSE TO TRANSMIT HIGH PRESSURE GASES OR STREAM. NOT ANY PRESSURE ABOVE 500 PSI.

Follow Good Maintenance Practices

1. **Establish a program** of inspection, testing and replacement of hose assemblies from factors including:
 - Severity of application
 - Frequency of equipment use
 - Past performance of hose assemblies
5. Stay out of hazardous areas while testing hose assemblies under pressure. **Use proper safety protection.**

- **Fluid under pressure can cause serious injury.** It can be almost invisible escaping from a pinhole and it can pierce the skin into the body.
- Do not touch a pressurized hydraulic hose assembly with any part of your body.
- If fluid punctures the skin, **even if no pain is felt, a serious emergency exists.** Obtain medical assistance immediately. **Failure to do so can result in loss of the injured body.**

Other Safety Information

Many factors affect the selection, crimping, installation and maintenance of hose assemblies. This catalog, Gates Corporation, the hydraulic equipment maker and the Society of Automotive Engineers Recommended Practice SAE J1273, have useful information about selecting, crimping, installing and serving hydraulic hose assemblies. For further

information, please contact your local Gates representative or call Gates Corporation.

Gates recommends hose and coupling combinations in this catalog only after completing extensive testing.

Evaluation of a hose and coupling combination requires considerable impulse testing

and cannot be determined by a simple burst or pressure hold test. Gates disclaims all liability for any hose assembly made in violation of Gates recommendations, procedures and current crimp data. Crimp data is updated on average every year. For the most up-to-date crimp data, visit www.gates.com/ecrimp.

The consumer's exclusive remedy with respect to any claim shall be a refund of the purchase price or replacement of the product at the option of Gates. In no event shall Gates be liable for any incidental or consequential damages whatsoever.

GATES CORPORATION LIMITED LIFETIME WARRANTY

The gates corporation ("Gates") product is warranted to be free from defects in material or workmanship from the date of delivery to Customer. Gates will, at its option, replace or repair any merchandise proved defective in material or workmanship, or both. In no event will Gates honor any warranty claim unless it is notified of the claim within six (6) months of the expiration of the warranty period. This shall be the sole remedy for the breach of warranty.

This is the exclusive remedy, limited to the Customer's purchase price of the product. Damage to the product due to abuse, misuse, improper use, inadequate maintenance, or failure to follow published installation, use and service recommendations automatically voids this warranty. For warranty service, please contact the customer service department of Gates Corporation, 1551 Wewatta Street, Denver, Colorado 80202.

ALL OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY EXPRESSLY DISCLAIMED. IN NO EVENT WILL GATES BE LIABLE TO ANY PARTY FOR CONSEQUENTIAL, INCIDENTAL, SPECIAL, EXEMPLARY AND INDIRECT DAMAGES, INCLUDING BUT NOT LIMITED TO LOST PROFITS, REGARDLESS OF WHETHER SUCH DAMAGES WERE REASONABLE FORESEEABLE, OR WHETHER GATES HAD KNOWLEDGE THAT THEY COULD OCCUR.

Some states do not allow the exclusion or limitation of incidental or consequential damages, and some states do not allow limitations on how long an implied warranty last, so the above limitation and exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

GATES INDUSTRIAL HOSE [S-SERIES]

GATES S-SERIES CHEMICAL HOSE <> SCH-150SD (150 PSI)

Recommended For: Mandrel built rubber hose with compounded cross-linked polyethylene tube. It can handle a wide range of chemicals, petroleum products (including aromatics) and oils.

Temperature Range: -4°F to +185°F [-20°C to +85°C]

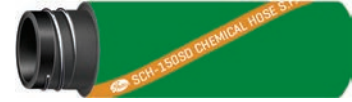
Tube: Translucent, smooth, cross-linked polyethylene

Reinforcement: High strength synthetic cord plus helix wire

Design Factor: 3:1

Cover: Green, EPDM rubber, higher resistance to weather, ozone and abrasion; above from 6" with corrugated cover for better flexibility

Branding: Continuous transfer. Example: "Gates SCH-150SD CHEMICAL HOSE S.F. 3:1 150 PSI [10.3 Bar]".



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE (US\$/FT)
12SCH-150SD	3/4	32	150	3:1	200	GREEN	9.92
16SCH-150SD	1	38	150	3:1	200	GREEN	11.33
20SCH-150SD	1-1/4	45	150	3:1	200	GREEN	13.40
24SCH-150SD	1-1/2	51	150	3:1	200	GREEN	15.32
32SCH-150SD	2	65	150	3:1	200	GREEN	19.74
40SCH-150SD	2-1/2	79	150	3:1	200	GREEN	26.64
48SCH-150SD	3	91	150	3:1	200	GREEN	31.27
64SCH-150SD	4	118	150	3:1	200	GREEN	41.07
80SCH-150SD	5	148	150	3:1	200	GREEN	65.17
96SCH-150SD	6	179	150	3:1	200	GREEN	85.80

GATES S-SERIES CHEMICAL HOSE <> SCH-150SD-HD (150 PSI)

Recommended For: Mandrel built rubber hose with compounded cross-linked polyethylene tube. It can handle a wide range of chemicals, petroleum products (including aromatics) and oils.

Temperature Range: -4°F to +185°F [-20°C to +85°C]

Tube: Translucent, smooth, cross-linked polyethylene

Reinforcement: High strength synthetic cord plus helix wire

Design Factor: 4:1

Cover: Green, EPDM rubber, higher resistance to weather, ozone and abrasion; above from 6" with corrugated cover for better flexibility

Branding: Continuous transfer. Example: "Gates SCH-150SD-HD CHEMICAL HOSE S.F. 4:1 150 PSI [10.3 Bar]".



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE (US\$/FT)
12SCH-150SD-HD	3/4	32	150	4:1	200	GREEN	8.08
16SCH-150SD-HD	1	38	150	4:1	200	GREEN	9.15
20SCH-150SD-HD	1-1/4	45	150	4:1	200	GREEN	11.09
24SCH-150SD-HD	1-1/2	51	150	4:1	200	GREEN	12.43
32SCH-150SD-HD	2	65	150	4:1	200	GREEN	16.33
40SCH-150SD-HD	2-1/2	79	150	4:1	200	GREEN	22.34
48SCH-150SD-HD	3	91	150	4:1	200	GREEN	23.74
64SCH-150SD-HD	4	118	150	4:1	200	GREEN	33.32
80SCH-150SD-HD	5	148	150	4:1	200	GREEN	53.31
96SCH-150SD-HD	6	179	150	4:1	200	GREEN	70.56

GATES INDUSTRIAL HOSE [S-SERIES]

GATES S-SERIES MULTIPURPOSE HOSE - AIR, WATER <> SMP-W150 (150 PSI)

Recommended For: Mandrel built lightweight air hose suitable for a variety of general purpose in industries, construction sites and mines. [1/4"-3/8" non-mandrel built]

Temperature Range: -4°F to +185°F [-20°C to +85°C]

Tube: Black SBR/NR Blend Rubber

Reinforcement: High strength textile braider

Design Factor: 3:1

Cover: Black SBR/NR Blend Rubber, Smooth, Abrasion; Ozone and Weather Resistant

Branding: Continuous transfer. Example: "SMP-W150 MULTIPURPOSE HOSE - AIR, WATER 150 PSI [10.3 Bar]"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE [US\$/FT]
4SMP-W150	1/4	12.5	150	3:1	328	BLACK	0.52
6SMP-W150	3/8	16.5	150	3:1	328	BLACK	0.73
8SMP-W150	1/2	20.5	150	3:1	328	BLACK	0.88
12SMP-W150	3/4	28	150	3:1	328	BLACK	1.42
16SMP-W150	1	35	150	3:1	328	BLACK	2.02
20SMP-W150	1-1/4	43	150	3:1	200	BLACK	4.88
24SMP-W150	1-1/2	48	150	3:1	200	BLACK	5.59
32SMP-W150	2	64	150	3:1	200	BLACK	7.64

GATES S-SERIES MULTIPURPOSE HOSE - AIR, WATER <> SMP-W300 (300 PSI)

Recommended For: Mandrel built lightweight air hose suitable for a variety of general purpose in industries, construction sites and mines . [1/4"-3/8" non-mandrel built]

Temperature Range: -4°F to +185°F [-20°C to +85°C]

Tube: Black SBR/NR Blend Rubber

Reinforcement: High strength textile braider

Design Factor: 3:1

Cover: Black SBR/NR Blend Rubber, Smooth, Abrasion; Ozone and Weather Resistant

Branding: Continuous transfer. Example: "SMP-W300 MULTIPURPOSE HOSE - AIR, WATER 300 PSI [20.6 Bar]"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE [US\$/FT]
4SMP-W300	1/4	12.5	300	3:1	328	BLACK	0.56
6SMP-W300	3/8	16.5	300	3:1	328	BLACK	0.78
8SMP-W300	1/2	20.5	300	3:1	328	BLACK	0.96
12SMP-W300	3/4	28	300	3:1	328	BLACK	1.61
16SMP-W300	1	35	300	3:1	328	BLACK	2.11
20SMP-W300	1-1/4	43	300	3:1	200	BLACK	4.88
24SMP-W300	1-1/2	49	300	3:1	200	BLACK	5.59
32SMP-W300	2	64	300	3:1	200	BLACK	7.64

GATES INDUSTRIAL HOSE [S-SERIES]

GATES S-SERIES MULTIPURPOSE HOSE - AIR, WATER <> SMP-W600-HD (600 PSI)

Recommended For: Mandrel built lightweight air hose suitable for a variety of general purpose in industries, construction sites and mines.

Temperature Range: -4°F to +185°F [-20°C to +85°C]

Tube: Black SBR/NR Blend Rubber

Reinforcement: High strength textile fabric

Design Factor: 4:1

Cover: Black, smooth [wrapped finish] SBR/NR/EPDM blended rubber; Abrasion, Ozone, Oil and Weather resistant

Branding: Continuous transfer. Example: "SMP-W600-HD MULTIPURPOSE HOSE - AIR, WATER S.F. 4:1 600 PSI [41.3 Bar]"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE (US\$/FT)
8SMP-W600-HD	1/2	21	600	4:1	328	BLACK	3.41
12SMP-W600-HD	3/4	29	600	4:1	200	BLACK	4.89
16SMP-W600-HD	1	35	600	4:1	200	BLACK	5.73
20SMP-W600-HD	1-1/4	47	600	4:1	200	BLACK	9.99
24SMP-W600-HD	1-1/2	54	600	4:1	200	BLACK	14.11
32SMP-W600-HD	2	68	600	4:1	200	BLACK	19.05
40SMP-W600-HD	2-1/2	85	600	4:1	200	BLACK	32.55
48SMP-W600-HD	3	98	600	4:1	200	BLACK	38.05
64SMP-W600-HD	4	-	600	4:1	200	BLACK	-

GATES S-SERIES MULTIPURPOSE HOSE - AIR, WATER, OIL <> SMP-150 (150 PSI)

Recommended For: Delivery of gasoline, diesel and fuel-oil with aromatic content up to 50%; Seawater, Mud and General[1/4"-3/8" non-mandrel built]

Temperature Range: -4°F to +185°F [-20°C to +85°C]

Tube: Black NBR Rubber

Reinforcement: High strength textile braider

Design Factor: 3:1

Cover: Red, smooth [wrapped finish] CR/NBR Rubber: Abrasion, Ozone, Oil and Weather resistant

Branding: Continuous transfer. Example: "SMP-150 MULTIPURPOSE HOSE - AIR, WATER, OIL 150 PSI [10.3 Bar]"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE (US\$/FT)
4SMP-150	1/4	12.5	150	3:1	328	RED	0.70
6SMP-150	3/8	16.5	150	3:1	328	RED	1.03
8SMP-150	1/2	20.5	150	3:1	328	RED	1.30
12SMP-150	3/4	28	150	3:1	328	RED	2.10
16SMP-150	1	35	150	3:1	328	RED	2.95
20SMP-150	1-1/4	43	150	3:1	200	RED	5.62
24SMP-150	1-1/2	49	150	3:1	200	RED	6.47
32SMP-150	2	64	150	3:1	200	RED	8.98

GATES INDUSTRIAL HOSE [S-SERIES]

GATES S-SERIES MULTIPURPOSE HOSE - AIR, WATER, OIL <> SMP-300 (300 PSI)

Recommended For: Delivery of gasoline, diesel and fuel-oil with aromatic content up to 50%; Seawater, Mud and General

Temperature Range: -4°F to +185°F [-20°C to +85°C]

Tube: Black NBR Rubber

Reinforcement: High strength textile braider

Design Factor: 3:1

Cover: Red, smooth [wrapped finish] CR/NBR Rubber: Abrasion, Ozone, Oil and Weather resistant

Branding: Continuous transfer. Example: "SMP-300 MULTIPURPOSE HOSE - AIR, WATER, OIL 300 PSI [20.6 Bar]"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE [US\$/FT]
4SMP-300	1/4	12.5	300	3:1	328	RED	0.72
6SMP-300	3/8	16.5	300	3:1	328	RED	1.06
8SMP-300	1/2	20.5	300	3:1	328	RED	1.41
12SMP-300	3/4	28	300	3:1	328	RED	2.28
16SMP-300	1	35	300	3:1	328	RED	3.12
20SMP-300	1-1/4	43	300	3:1	200	RED	6.51
24SMP-300	1-1/2	49	300	3:1	200	RED	6.65
32SMP-300	2	64	300	3:1	200	RED	9.23

GATES S-SERIES MULTIPURPOSE HOSE - AIR, WATER, OIL <> SMP-150-HD (150 PSI)

Recommended For: Mandrel built rubber hose with compounded cross-linked polyethylene tube. It can handle a wide range of chemicals, petroleum products [including aromatics] and oils.

Temperature Range: -4°F to +185°F [-20°C to +85°C]

Tube: Black NBR Rubber

Reinforcement: High strength textile braider

Design Factor: 4:1

Cover: Red, smooth [wrapped finish] CR/BR Rubber: Abrasion, Ozone, Oil and

Weather resistant

Branding: Continuous transfer. Example: "SMP-150-HD MULTIPURPOSE HOSE - AIR, WATER, OIL S.F. 4:1 150 PSI [10.3 Bar]"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE [US\$/FT]
4SMP-150-HD	1/4	12.5	150	4:1	328	RED	0.71
6SMP-150-HD	3/8	16.5	150	4:1	328	RED	0.99
8SMP-150-HD	1/2	20.5	150	4:1	328	RED	1.40
12SMP-150-HD	3/4	28	150	4:1	328	RED	2.27
16SMP-150-HD	1	35	150	4:1	328	RED	3.11
20SMP-150-HD	1-1/4	43	150	4:1	200	RED	5.62
24SMP-150-HD	1-1/2	49	150	4:1	200	RED	6.47
32SMP-150-HD	2	63	150	4:1	200	RED	8.98

GATES INDUSTRIAL HOSE [S-SERIES]

GATES S-SERIES MULTIPURPOSE HOSE - AIR, WATER, OIL <> SMP-300-HD (300 PSI)

Recommended For: Mandrel built rubber hose with compounded cross-linked polyethylene tube. It can handle a wide range of chemicals, petroleum products (including aromatics) and oils.

Temperature Range: -4°F to +185°F (-20°C to +85°C)

Tube: Black NBR Rubber

Reinforcement: High strength textile braider

Design Factor: 4:1

Cover: Red, smooth (wrapped finish) CR/BR Rubber: Abrasion, Ozone, Oil and Weather resistant

Branding: Continuous transfer. Example: "SMP-300-HD MULTIPURPOSE HOSE - AIR, WATER, OIL S.F. 4:1 300 PSI (20.6 Bar)"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE (US\$/FT)
4SMP-300-HD	1/4	12.5	300	4:1	328	RED	0.75
6SMP-300-HD	3/8	16.5	300	4:1	328	RED	1.07
8SMP-300-HD	1/2	20.5	300	4:1	328	RED	1.43
12SMP-300-HD	3/4	28	300	4:1	328	RED	2.37
16SMP-300-HD	1	35	300	4:1	328	RED	3.16
20SMP-300-HD	1-1/4	43	300	4:1	200	RED	6.87
24SMP-300-HD	1-1/2	49	300	4:1	200	RED	6.52
32SMP-300-HD	2	67	300	4:1	200	RED	13.34

GATES S-SERIES MULTIPURPOSE HOSE - AIR, WATER, OIL <> SMP-600-HD (600 PSI)

Recommended For: Delivery of gasoline, diesel and fuel-oil with aromatic content up to 50%; Seawater, Mud and General

Temperature Range: -4°F to +185°F (-20°C to +85°C)

Tube: Black NBR Rubber

Reinforcement: High strength textile fabric

Design Factor: 4:1

Cover: Red, smooth (wrapped finish) CR/NBR Rubber: Abrasion, Ozone, Oil and Weather resistant

Branding: Continuous transfer. Example: "SMP-600-HD MULTIPURPOSE HOSE - AIR, WATER, OIL S.F. 4:1 600 PSI (41.3 Bar)"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE (US\$/FT)
32SMP-600-HD	2	68	600	4:1	200	RED	19.93
40SMP-600-HD	2-1/2	85	600	4:1	200	RED	32.98
48SMP-600-HD	3	98	600	4:1	200	RED	38.70

GATES INDUSTRIAL HOSE (S-SERIES)

GATES S-SERIES POTABLE WATER HOSE <> SFB-150 (150 PSI)

Recommended For: Potable water use
Temperature Range: -4°F to +185°F [-20°C to +85°C]
Tube: White Natural Rubber
Reinforcement: High strength textile fabric
Design Factor: 3:1
Cover: White, EPDM/NR blended

Branding: Continuous transfer. Example: "SFB-150 POTABLE WATER HOSE 150 PSI [10.3 Bar]"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE [US\$/FT]
12SFB-150	3/4	29	150	3:1	200	WHITE	5.01
16SFB-150	1	35	150	3:1	200	WHITE	6.22
24SFB-150	1-1/2	49	150	3:1	200	WHITE	9.63
32SFB-150	2	63	150	3:1	200	WHITE	13.54
40SFB-150	2-1/2	76	150	3:1	200	WHITE	16.52
48SFB-150	3	88	150	3:1	200	WHITE	19.98
64SFB-150	4	115	150	3:1	200	WHITE	26.76
96SFB-150	6	169	150	3:1	200	WHITE	51.85

GATES S-SERIES POTABLE WATER HOSE <> SFB-300 (300 PSI)

Recommended For: Potable water use
Temperature Range: -4°F to +185°F [-20°C to +85°C]
Tube: White Natural Rubber
Reinforcement: High strength textile fabric
Design Factor: 3:1
Cover: White, EPDM/NR blended

Branding: Continuous transfer. Example: "SFB-300 POTABLE WATER HOSE 300 PSI [20.6 Bar]"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE [US\$/FT]
12SFB-300	3/4	29	300	3:1	200	WHITE	5.47
16SFB-300	1	35	300	3:1	200	WHITE	6.79
24SFB-300	1-1/2	49	300	3:1	200	WHITE	10.51
32SFB-300	2	63	300	3:1	200	WHITE	14.77
40SFB-300	2-1/2	80	300	3:1	200	WHITE	23.01
48SFB-300	3	92	300	3:1	200	WHITE	27.47
64SFB-300	4	119	300	3:1	200	WHITE	35.91
96SFB-300	6	174	300	3:1	200	WHITE	78.40

GATES S-SERIES POTABLE WATER HOSE <> SFB-300-HD (300 PSI)

Recommended For: Potable water use
Temperature Range: -4°F to +185°F [-20°C to +85°C]
Tube: White Natural Rubber
Reinforcement: High strength textile fabric
Design Factor: 4:1
Cover: White, EPDM/NR blended

Branding: Continuous transfer. Example: "SFB-300-HD POTABLE WATER HOSE S.F. 4:1 300 PSI [20.6 Bar]"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE [US\$/FT]
12SFB-300-HD	3/4	29	300	4:1	200	WHITE	5.78
16SFB-300-HD	1	35	300	4:1	200	WHITE	7.18
24SFB-300-HD	1-1/2	49	300	4:1	200	WHITE	11.12
32SFB-300-HD	2	63	300	4:1	200	WHITE	15.56
40SFB-300-HD	2-1/2	76	300	4:1	200	WHITE	24.77
48SFB-300-HD	3	89	300	4:1	200	WHITE	31.47
64SFB-300-HD	4	119	300	4:1	200	WHITE	39.11
96SFB-300-HD	6	170	300	4:1	200	WHITE	89.15

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.

GATES INDUSTRIAL HOSE (S-SERIES)

GATES S-SERIES SAND BLAST HOSE <> SSB-150 (150 PSI)

Recommended For: Room temperature, quartz sand transport, iron ore, cement, mud and other abrasive materials.

Temperature Range: -4°F to +185°F [-20°C to +85°C]

Tube: Black NR/BR/SBR

Reinforcement: High strength textile fabric

Design Factor: 3:1

Cover: Black, smooth [wrapped finish] NR/EPDM rubber, higher resistance to weather, ozone and abrasion

Branding: Continuous transfer. Example: "SSB-150 SAND BLAST HOSE 150 PSI [10.3 Bar]"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE (US\$/FT)
8SSB-150	1/2	20.5	150	3:1	328	BLACK	1.56
12SSB-150	3/4	32	150	3:1	200	BLACK	4.52
16SSB-150	1	38	150	3:1	200	BLACK	5.49
20SSB-150	1-1/4	46	150	3:1	200	BLACK	7.27
24SSB-150	1-1/2	52	150	3:1	200	BLACK	7.74
32SSB-150	2	66	150	3:1	200	BLACK	10.48
48SSB-150	3	91	150	3:1	200	BLACK	14.82
64SSB-150	4	122	150	3:1	200	BLACK	26.97
80SSB-150	5	147	150	3:1	200	BLACK	32.88
96SSB-150	6	172	150	3:1	200	BLACK	38.75

GATES S-SERIES MATERIAL HANDLING HOSE <> SBC-150 (150 PSI)

Recommended For: Used in conveying of cement, sand, seeds, gravel, silica, pellets and abrasive materials

Temperature Range: -4°F to +185°F [-20°C to +85°C]

Tube: Black Synthetic NR/BR/SBR wear resistance Rubber

Reinforcement: High strength textile fabric

Design Factor: 3:1

Cover: Black, smooth [wrapped finish] NR / EPDM rubber, higher resistance to weather, ozone and abrasion

Branding: Continuous transfer. Example: "SBC-150 MATERIAL HANDLING HOSE 150 PSI [10.3 Bar]"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE (US\$/FT)
32SBC-150	2	66	150	3:1	200	BLACK	14.49
48SBC-150	3	91	150	3:1	200	BLACK	21.19
64SBC-150	4	122	150	3:1	200	BLACK	35.43
80SBC-150	5	147	150	3:1	200	BLACK	41.80
96SBC-150	6	172	150	3:1	200	BLACK	49.37

GATES S-SERIES MATERIAL HANDLING HOSE <> SBC-150SD-HD (150 PSI)

Recommended For: Used in conveying of cement, sand, seeds, gravel, silica, pellets and abrasive materials

Temperature Range: -4°F to +185°F [-20°C to +85°C]

Tube: Black Synthetic NR/BR/SBR wear resistance Rubber

Reinforcement: High strength textile fabric

Design Factor: 4:1

Cover: Black, smooth [wrapped finish] NR / EPDM rubber, higher resistance to weather, ozone and abrasion

Branding: Continuous transfer. Example: "SBC-150SD-HD MATERIAL HANDLING HOSE 150 PSI [10.3 Bar]"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE (US\$/FT)
32SBC-150SD-HD	2	66	150	4:1	200	BLACK	13.62
48SBC-150SD-HD	3	91	150	4:1	200	BLACK	21.22
64SBC-150SD-HD	4	122	150	4:1	200	BLACK	39.14
80SBC-150SD-HD	5	147	150	4:1	200	BLACK	48.44
96SBC-150SD-HD	6	172	150	4:1	200	BLACK	60.87

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.

GATES INDUSTRIAL HOSE [S-SERIES]

GATES S-SERIES MATERIAL HANDLING HOSE <> SBC-300SD (300 PSI)

Recommended For: Used in conveying of cement, sand, seeds, gravel, silica, pellets and abrasive materials

Temperature Range: -4°F to +185°F [-20°C to +85°C]

Tube: Black Synthetic NR/BR/SBR wear resistance Rubber

Reinforcement: High strength textile fabric

Design Factor: 3:1

Cover: Black, smooth [wrapped finish] NR / EPDM rubber, higher resistance to weather, ozone and abrasion

Branding: Continuous transfer. Example: "SBC-300SD MATERIAL HANDLING HOSE 300 PSI [20.6 Bar]"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE (US\$/FT)
32SBC-300SD	2	66	300	3:1	200	BLACK	14.02
48SBC-300SD	3	91	300	3:1	200	BLACK	27.84
64SBC-300SD	4	122	300	3:1	200	BLACK	36.10
80SBC-300SD	5	147	300	3:1	200	BLACK	52.71
96SBC-300SD	6	172	300	3:1	200	BLACK	84.49

GATES S-SERIES MATERIAL HANDLING HOSE <> SBC-300SD-HD (300 PSI)

Recommended For: Used in conveying of cement, sand, seeds, gravel, silica, pellets and abrasive materials

Temperature Range: -4°F to +185°F [-20°C to +85°C]

Tube: Black Synthetic NR/BR/SBR wear resistance Rubber

Reinforcement: High strength textile fabric

Design Factor: 3:1

Cover: Black, smooth [wrapped finish] NR / EPDM rubber, higher resistance to weather, ozone and abrasion

Branding: Continuous transfer. Example: "SBC-300SD-HD MATERIAL HANDLING HOSE 300 PSI [20.6 Bar]"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE (US\$/FT)
32SBC-300SD-HD	2	66	300	4:1	200	BLACK	15.40
48SBC-300SD-HD	3	91	300	4:1	200	BLACK	29.32
64SBC-300SD-HD	4	122	300	4:1	200	BLACK	45.72
80SBC-300SD-HD	5	147	300	4:1	200	BLACK	56.40
96SBC-300SD-HD	6	172	300	4:1	200	BLACK	89.20

GATES S-SERIES AIR DRILL HOSE <> SAD-500-HD (500 PSI)

Recommended For: Heavy-duty, high pressure use on industrial, construction and pneumatic mining applications requiring wire braided hose with oil resistant tube and abrasion resistant cover.

Temperature Range: -4°F to +185°F [-20°C to +85°C]

Tube: Black SBR/NR blended rubber

Reinforcement: High strength textile fabric

Design Factor: 4:1

Cover: Black, smooth, SBR/NR/EPDM blended rubber higher resistance to weather, ozone and abrasion

Branding: Continuous transfer. Example: "SAD-500-HD AIR DRILL HOSE S.F. 4:1 500 PSI [34.4 Bar]"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE (US\$/FT)
12SAD-500-HD	3/4	32	500	4:1	200	BLACK	4.25
16SAD-500-HD	1	38	500	4:1	200	BLACK	5.19
20SAD-500-HD	1-1/4	45	500	4:1	200	BLACK	7.17
24SAD-500-HD	1-1/2	51	500	4:1	200	BLACK	8.26
32SAD-500-HD	2	68	500	4:1	200	BLACK	13.76
40SAD-500-HD	2-1/2	81	500	4:1	200	BLACK	16.56
48SAD-500-HD	3	95	500	4:1	200	BLACK	24.07
64SAD-500-HD	4	125	500	4:1	200	BLACK	43.52

GATES INDUSTRIAL HOSE (S-SERIES)

GATES S-SERIES PETROLEUM S&D HOSE <> SOL-150SD (150 PSI)

Recommended For: Low-pressure hydraulic oil fluids in suction lines or in low pressure in low pressure return lines.

Temperature Range: 13°F to +212°F [-25°C to +100°C]

Tube: Black NBR

Reinforcement: High strength textile fabric, with helix steel wire and anti-static copper wire

Design Factor: 3:1

Cover: Black, smooth [wrapped finish] CR/NBR blended rubber, flat

Branding: Continuous transfer. Example: "SOL-150SD PETROLEUM S&D HOSE 150 PSI [10.3 Bar]"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE [US\$/FT]
16SOL-150SD	1	38	150	3:1	200	BLACK	5.52
32SOL-150SD	2	65	150	3:1	200	BLACK	10.99
48SOL-150SD	3	90	150	3:1	200	BLACK	16.04
64SOL-150SD	4	116	150	3:1	200	BLACK	18.50
80SOL-150SD	5	143	150	3:1	200	BLACK	25.47
96SOL-150SD	6	178	150	3:1	200	BLACK	48.47
128SOL-150SD	8	231	150	3:1	100	BLACK	79.13
160SOL-150SD	10	284	150	3:1	100	BLACK	106.25
192SOL-150SD	12	339	150	3:1	39	BLACK	154.60

GATES S-SERIES PETROLEUM S&D HOSE <> SOL-150SD-HD (150 PSI)

Recommended For: Low-pressure hydraulic oil fluids in suction lines or in low pressure in low pressure return lines.

Temperature Range: -4°F to +212°F [-20°C to +100°C]

Tube: Black NBR

Reinforcement: High strength textile fabric, with helix steel wire and anti-static copper wire

Design Factor: 4:1

Cover: CR/NBR blended rubber, flat

Branding: Continuous transfer. Example: "SOL-150SD-HD PETROLEUM S&D HOSE S.F. 4:1 150 PSI [10.3 Bar]"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE [US\$/FT]
16SOL-150SD-HD	1	37	150	4:1	200	BLACK	5.68
32SOL-150SD-HD	2	65	150	4:1	200	BLACK	11.70
48SOL-150SD-HD	3	90	150	4:1	200	BLACK	17.51
64SOL-150SD-HD	4	117	150	4:1	200	BLACK	19.05
80SOL-150SD-HD	5	143	150	4:1	200	BLACK	28.42
96SOL-150SD-HD	6	178	150	4:1	200	BLACK	48.45
128SOL-150SD-HD	8	230	150	4:1	100	BLACK	79.07
160SOL-150SD-HD	10	285	150	4:1	100	BLACK	119.55
192SOL-150SD-HD	12	355	150	4:1	39	BLACK	168.62

GATES INDUSTRIAL HOSE [S-SERIES]

GATES S-SERIES PETROLEUM S&D HOSE <> SOL-300SD (300 PSI)

Recommended For: Low-pressure hydraulic oil fluids in suction lines or in low pressure in low pressure return lines.

Temperature Range: -4°F to +212°F [-20°C to +100°C]

Tube: Black NBR

Reinforcement: High strength textile fabric, with helix steel wire and anti-static copper wire

Design Factor: 3:1

Cover: CR/NBR blended rubber, flat

Branding: Continuous transfer. Example: "SOL-300SD PETROLEUM S&D HOSE 300 PSI [20.6 Bar]"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE (US\$/FT)
16SOL-300SD	1	38	300	3:1	200	BLACK	5.95
32SOL-300SD	2	65	300	3:1	200	BLACK	11.32
48SOL-300SD	3	91	300	3:1	200	BLACK	17.76
64SOL-300SD	4	120	300	3:1	200	BLACK	25.67
80SOL-300SD	5	148	300	3:1	200	BLACK	34.17
96SOL-300SD	6	178	300	3:1	200	BLACK	49.90
128SOL-300SD	8	226	300	3:1	100	BLACK	89.89
160SOL-300SD	10	282	300	3:1	100	BLACK	147.64
192SOL-300SD	12	355	300	3:1	39	BLACK	344.94

GATES S-SERIES PETROLEUM S&D HOSE <> SOL-300SD-HD (300 PSI)

Recommended For: Low-pressure hydraulic oil fluids in suction lines or in low pressure in low pressure return lines.

Temperature Range: -4°F to +212°F [-20°C to +100°C]

Tube: Black NBR

Reinforcement: High strength textile fabric, with helix steel wire and anti-static copper wire

Design Factor: 4:1

Cover: Black, smooth [wrapped finish] CR cover, above from 6" with corrugated cover

Branding: Continuous transfer. Example: "SOL-300SD-HD PETROLEUM S&D HOSE S.F. 4:1 300 PSI [20.6 Bar]"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE (US\$/FT)
16SOL-300SD-HD	1	38	300	4:1	200	BLACK	6.23
32SOL-300SD-HD	2	65	300	4:1	200	BLACK	11.70
48SOL-300SD-HD	3	94	300	4:1	200	BLACK	20.44
64SOL-300SD-HD	4	120	300	4:1	200	BLACK	26.41
80SOL-300SD-HD	5	149	300	4:1	200	BLACK	40.00
96SOL-300SD-HD	6	182	300	4:1	200	BLACK	58.30
128SOL-300SD-HD	8	236	300	4:1	100	BLACK	112.68
160SOL-300SD-HD	10	303	300	4:1	100	BLACK	161.07
192SOL-300SD-HD	12	355	300	4:1	39	BLACK	376.30

GATES INDUSTRIAL HOSE (S-SERIES)

GATES S-SERIES PETROLEUM S&D HOSE <> SOL-500SD-HD (500 PSI)

Recommended For: Low-pressure hydraulic oil fluids in suction lines or in low pressure in low pressure return lines.

Temperature Range: -4°F to +212°F [-20°C to +100°C]

Tube: Black NBR

Reinforcement: High strength textile fabric, with helix steel wire and anti-static copper wire

Design Factor: 4:1

Cover: CR/NBR blended rubber, flat

Branding: Continuous transfer. Example: "SOL-500SD-HD PETROLEUM S&D HOSE 500 PSI [34.4 Bar]"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE (US\$/FT)
32SOL-500SD-HD	2	68	500	4:1	200	BLACK	57.77
48SOL-500SD-HD	3	98	500	4:1	200	BLACK	85.68
64SOL-500SD-HD	4	126	500	4:1	200	BLACK	120.73
80SOL-500SD-HD	5	153	500	4:1	200	BLACK	159.68
96SOL-500SD-HD	6	184	500	4:1	200	BLACK	207.72

GATES S-SERIES PETROLEUM DISCHARGE HOSE <> SOL-150D (150 PSI)

Recommended For: Low-pressure hydraulic oil fluids for general purpose, conveying diesel fuel

Temperature Range: -4°F to +212°F [-20°C to +100°C]

Tube: Black NBR

Reinforcement: High strength textile, with helix steel wire and anti-static copper wire

Design Factor: 3:1

Cover: Black, smooth [wrapped finish] CR/NBR blended rubber, flat

Branding: Continuous transfer. Example: "SOL-150D PETROLEUM DISCHARGE HOSE 150 PSI [10.3 Bar]"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE (US\$/FT)
16SOL-150D	1	35	150	3:1	200	BLACK	4.45
32SOL-150D	2	64	150	3:1	200	BLACK	9.45
48SOL-150D	3	89	150	3:1	200	BLACK	13.90
64SOL-150D	4	118	150	3:1	200	BLACK	24.83
80SOL-150D	5	144	150	3:1	200	BLACK	31.79
96SOL-150D	6	170	150	3:1	200	BLACK	39.42
128SOL-150D	8	222	150	3:1	100	BLACK	64.55
160SOL-150D	10	277	150	3:1	100	BLACK	100.87
192SOL-150D	12	329	150	3:1	39	BLACK	143.46

GATES INDUSTRIAL HOSE [S-SERIES]

GATES S-SERIES PETROLEUM DISCHARGE HOSE <> SOL-300D (300 PSI)

Recommended For: Delivery of gasoline, diesel and fuel-oil with aromatic content up to 50%; Seawater, Mud and General

Temperature Range: -4°F to +212°F (-20°C to +100°C)

Tube: Black NBR

Reinforcement: High strength textile fabric, with helix steel wire and anti-static copper wire

Design Factor: 3:1

Cover: Black, smooth [wrapped finish] CR/NBR blended rubber, flat

Branding: Continuous transfer. Example: "SOL-300D PETROLEUM DISCHARGE HOSE 300 PSI [20.6 Bar]"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE (US\$/FT)
16SOL-300D	1	35	300	3:1	200	BLACK	4.58
32SOL-300D	2	63	300	3:1	200	BLACK	9.63
48SOL-300D	3	92	300	3:1	200	BLACK	20.09
64SOL-300D	4	118	300	3:1	200	BLACK	25.53
80SOL-300D	5	148	300	3:1	200	BLACK	41.11
96SOL-300D	6	174	300	3:1	200	BLACK	58.58
128SOL-300D	8	227	300	3:1	100	BLACK	97.73
160SOL-300D	10	303	300	3:1	100	BLACK	213.24
192SOL-300D	12	355	300	3:1	39	BLACK	257.14

GATES S-SERIES PETROLEUM DISCHARGE HOSE <> SOL-500D-HD (500 PSI)

Recommended For: Delivery of gasoline, diesel and fuel-oil with aromatic content up to 50%; Seawater, Mud and General

Temperature Range: -4°F to +212°F (-20°C to +100°C)

Tube: Black NBR

Reinforcement: High strength textile fabric, with helix steel wire and anti-static copper wire

Design Factor: 4:1

Cover: Black, smooth [wrapped finish] CR/NBR blended rubber, flat

Branding: Continuous transfer. Example: "SOL-500D-HD PETROLEUM DISCHARGE HOSE 500 PSI [34.4 Bar]"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE (US\$/FT)
64SOL-500D-HD	4	126	300	4:1	200	BLACK	120.73
80SOL-500D-HD	5	152	300	4:1	200	BLACK	159.68
96SOL-500D-HD	6	184	300	4:1	200	BLACK	207.72

GATES INDUSTRIAL HOSE (S-SERIES)

GATES S-SERIES STEAM 232°C HOSE <> 205MB STEAM KING® (232°C , 250 PSI)

Recommended For: All types of steam - saturated and superheated - up to 250 PSI and +450°F [+232°C]. Special cover for oil resistance.

Temperature Range: -40°F to +450°F [-40°C to +232°C] continuous service.

Tube: Black. Type P2 [EPDM].

Reinforcement: Braided, high tensile steel wire.

Design Factor: 10:1

Cover: Black, Type P2 [EPDM]. All sizes are perforated.

Branding: Continuous transfer. Example: "205MB STEAM KING® HOSE 232°C 250 PSI [17.2 Bar]"

CAUTION: DO NOT ALTERNATE USE BETWEEN STEAM AND WATER. TIGHTEN CLAMPS BEFORE USING.



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE (US\$/FT)
6-205MB	3/8	23.65	261	10:1	50	BLACK	3.55
8-205MB	1/2	27.5	261	10:1	50	BLACK	2.77
12-205MB	3/4	36.3	261	10:1	50	BLACK	4.43
16-205MB	1	44	261	10:1	50	BLACK	5.32
24-205MB	1-1/2	59.4	261	10:1	50	BLACK	8.78
32-205MB	2	75.9	261	10:1	50	BLACK	11.21

GATES S-SERIES STEAM 165°C HOSE <> SSM165-90SD (165°C , 90 PSI)

Recommended For: Use in the chemical, petrochemical and applications requiring steam

Temperature Range: -40°F to +329°F [-40°C to +165°C]

Tube: Black EPDM Rubber

Reinforcement: Wire braider

Design Factor: 10:1

Cover: Black, smooth [wrapped finish] EPDM rubber, higher resistance to weather, ozone and abrasion

Branding: Continuous transfer. Example: "SSM165-90SD STEAM HOSE 165°C 90 PSI [6.2 Bar]"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE (US\$/FT)
6SSM165-90SD	3/8	21.5	90	10:1	328	BLACK	3.22
8SSM165-90SD	1/2	25	90	10:1	328	BLACK	3.97
12SSM165-90SD	3/4	33	90	10:1	328	BLACK	6.15
16SSM165-90SD	1	40	90	10:1	328	BLACK	8.15
24SSM165-90SD	1-1/2	54	90	10:1	98	BLACK	12.04
32SSM165-90SD	2	69	90	10:1	98	BLACK	17.02

GATES S-SERIES WELDING HOSE <> SWD-300TW (300 PSI)

Recommended For: Delivery of oxygen, acetylene gas.

Temperature Range: -4°F to +167°F [-20°C to +75°C]

Tube: Black Synthetic Rubber

Reinforcement: High strength synthetic cord

Design Factor: 3:1

Cover: Red, Blue, smooth [fluted finish] cover, higher resistance to weather, ozone and abrasion

Branding: Continuous transfer. Example: "SWD-300TW WELDING HOSE 300 PSI [20.6 Bar]"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE (US\$/FT)
4SWD-300TW	1/4	12.5	300	3:1	328	RED/BLUE	1.08
5SWD-300TW	5/16	15	300	3:1	328	RED/BLUE	1.36
6SWD-300TW	3/8	16.5	300	3:1	328	RED/BLUE	1.65

GATES INDUSTRIAL HOSE (S-SERIES)

GATES S-SERIES WATER S&D HOSE <> SWR-150SD (150 PSI)

Recommended For: Used in water transfer
Temperature Range: -4°F to +185°F [-20°C to +85°C]
Tube: Black NR/SBR blended
Reinforcement: High strength textile fabric+Helix wire
Design Factor: 3:1

Cover: Black NR/SBR or EPDM blended, Flat
Branding: Continuous transfer. Example: "SSWR-150SD WATER S&D HOSE 150 PSI [10.3 Bar]"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE [US\$/FT]
16SWR-150SD	1	38	150	3:1	200	BLACK	4.37
32SWR-150SD	2	64	150	3:1	200	BLACK	8.04
48SWR-150SD	3	90	150	3:1	200	BLACK	12.05
64SWR-150SD	4	121	150	3:1	200	BLACK	22.12
80SWR-150SD	5	146	150	3:1	200	BLACK	28.22
96SWR-150SD	6	177	150	3:1	200	BLACK	41.75
128SWR-150SD	8	229	150	3:1	100	BLACK	67.42
160SWR-150SD	10	284	150	3:1	100	BLACK	104.27
192SWR-150SD	12	338	150	3:1	39	BLACK	134.32

GATES S-SERIES WATER S&D HOSE <> SWR-150SD-HD (150 PSI)

Recommended For: Used in water transfer
Temperature Range: -4°F to +185°F [-20°C to +85°C]
Tube: Black NR/SBR blended
Reinforcement: High strength synthetic cord plus helix wire
Design Factor: 4:1
Cover: Black NR/SBR or EPDM blended, Flat

Branding: Continuous transfer. Example: "SWR-150SD-HD WATER S&D HOSE S.F. 4:1 150 PSI [10.3 Bar]"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE [US\$/FT]
16SWR-150SD-HD	1	38	150	4:1	200	BLACK	4.57
32SWR-150SD-HD	2	64	150	4:1	200	BLACK	8.41
48SWR-150SD-HD	3	90	150	4:1	200	BLACK	12.60
64SWR-150SD-HD	4	121	150	4:1	200	BLACK	22.76
80SWR-150SD-HD	5	146	150	4:1	200	BLACK	31.42
96SWR-150SD-HD	6	177	150	4:1	200	BLACK	42.94
128SWR-150SD-HD	8	229	150	4:1	100	BLACK	69.04
160SWR-150SD-HD	10	284	150	4:1	100	BLACK	110.78
192SWR-150SD-HD	12	338	150	4:1	39	BLACK	140.54

GATES INDUSTRIAL HOSE [S-SERIES]

GATES S-SERIES WATER S&D HOSE <> SWR-300SD (300 PSI)

Recommended For: Used in water transfer
Temperature Range: -4°F to +185°F [-20°C to +85°C]
Tube: Black NR/SBR blended
Reinforcement: High strength textile fabric+Helix wire
Design Factor: 3:1
Cover: Black NR/SBR or EPDM blended,Flat

Branding: Continuous transfer. Example: "SWR-300SD WATER S&D HOSE 300 PSI [20.6 Bar]"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE [US\$/FT]
16SWR-300SD	1	38	300	3:1	200	BLACK	4.79
32SWR-300SD	2	64	300	3:1	200	BLACK	8.82
48SWR-300SD	3	90	300	3:1	200	BLACK	14.01
64SWR-300SD	4	120	300	3:1	200	BLACK	23.43
80SWR-300SD	5	147	300	3:1	200	BLACK	32.77
96SWR-300SD	6	175	300	3:1	200	BLACK	44.20
128SWR-300SD	8	230	300	3:1	100	BLACK	79.75
160SWR-300SD	10	303	300	3:1	100	BLACK	134.97
192SWR-300SD	12	355	300	3:1	39	BLACK	326.13

GATES S-SERIES WATER S&D HOSE <> SWR-300SD-HD (300 PSI)

Recommended For: Used in water transfer
Temperature Range: -4°F to +185°F [-20°C to +85°C]
Tube: Black NR/SBR blended
Reinforcement: High strength textile fabric+Helix wire
Design Factor: 4:1
Cover: Black NR/SBR or EPDM blended,Flat

Branding: Continuous transfer. Example: "SWR-300SD-HD WATER S&D HOSE S.F. 4:1 300 PSI [20.6 Bar]"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE [US\$/FT]
16SWR-300SD-HD	1	38	300	4:1	200	BLACK	4.95
32SWR-300SD-HD	2	64	300	4:1	200	BLACK	9.11
48SWR-300SD-HD	3	94	300	4:1	200	BLACK	17.57
64SWR-300SD-HD	4	120	300	4:1	200	BLACK	22.12
80SWR-300SD-HD	5	147	300	4:1	200	BLACK	34.01
96SWR-300SD-HD	6	181	300	4:1	200	BLACK	52.85
128SWR-300SD-HD	8	234	300	4:1	100	BLACK	102.41
160SWR-300SD-HD	10	288	300	4:1	100	BLACK	134.97
192SWR-300SD-HD	12	355	300	4:1	39	BLACK	344.94

GATES INDUSTRIAL HOSE [S-SERIES]

GATES S-SERIES WATER DISCHARGE HOSE <> SWR-150D (150 PSI)

Recommended For: Used in water transfer
Temperature Range: -4°F to +185°F [-20°C to +85°C]
Tube: Black NR/SBR blended
Reinforcement: High strength textile fabric
Design Factor: 3:1
Cover: Black NR/SBR or EPDM

Branding: Continuous transfer. Example: "SWR-150D WATER DISCHARGE HOSE 150 PSI [10.3 Bar]"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE (US\$/FT)
16SWR-150D	1	20.5	150	3:1	200	BLACK	2.53
32SWR-150D	2	64	150	3:1	200	BLACK	7.62
48SWR-150D	3	89	150	3:1	200	BLACK	10.83
64SWR-150D	4	117	150	3:1	200	BLACK	15.03
80SWR-150D	5	146	150	3:1	200	BLACK	27.58
96SWR-150D	6	171	150	3:1	200	BLACK	32.54
128SWR-150D	8	225	150	3:1	100	BLACK	56.55
160SWR-150D	10	280	150	3:1	100	BLACK	91.08
192SWR-150D	12	333	150	3:1	39	BLACK	113.70

GATES S-SERIES WATER DISCHARGE HOSE <> SWR-300D (300 PSI)

Recommended For: Used in water transfer
Temperature Range: -40°F to +158°F [-40°C to +70°C]
Tube: Black NR/SBR blended
Reinforcement: High strength textile fabric
Design Factor: 3:1
Cover: Black NR/SBR or EPDM

Branding: Continuous transfer. Example: "SWR-300D WATER DISCHARGE HOSE 300 PSI [20.6 Bar]"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE (US\$/FT)
16SWR-300D	1	35	300	3:1	200	BLACK	4.01
32SWR-300D	2	64	300	3:1	200	BLACK	7.62
48SWR-300D	3	93	300	3:1	200	BLACK	16.97
64SWR-300D	4	121	300	3:1	200	BLACK	22.63
80SWR-300D	5	150	300	3:1	200	BLACK	37.04
96SWR-300D	6	175	300	3:1	200	BLACK	43.58
128SWR-300D	8	229	300	3:1	100	BLACK	89.97
160SWR-300D	10	303	300	3:1	100	BLACK	213.24
192SWR-300D	12	355	300	3:1	39	BLACK	257.14

GATES S-SERIES DRILLING MUD (OIL) HOSE <> SDM-300SD-HD(300 PSI)

Recommended For: Used to transfer drilling mud.
Temperature Range: -4°F to +179°F [-20°C to +82°C]
Tube: Black NBR rubber
Reinforcement: High strength textile and helix steel wire
Design Factor: 4:1
Cover: Black NBR

Branding: Continuous transfer. Example: "SDM-300SD-HD DRILLING MUD (OIL) HOSE 300 PSI [20.6 Bar]"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE (US\$/FT)
32SDM-300SD-HD	2	65	300	4:1	200	BLACK	13.68
48SDM-300SD-HD	3	94	300	4:1	200	BLACK	25.40
64SDM-300SD-HD	4	121	300	4:1	200	BLACK	33.26
96SDM-300SD-HD	6	177	300	4:1	200	BLACK	87.19

GATES INDUSTRIAL HOSE [S-SERIES]

GATES S-SERIES FIRE DELUGE HOSE <> SFD-300SD-HD (300 PSI)

Recommended For: Used water delivery hose for deluge systems on offshore oil rig installations.

Temperature Range: -22°F to +212°F [-30°C to +100°C]

Tube: Black Nitrile Rubber

Reinforcement: Tyre cord

Design Factor: 4:1

Cover: Red CR Rubber

Branding: Continuous transfer. Example: "SFD-300SD-HD FIRE DELUGE S.F. 4:1 150 PSI [10.3 Bar]"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE [US\$/FT]
32SFD-300SD-HD	2	80	150	4:1	200	RED	73.36
48SFD-300SD-HD	3	105	150	4:1	200	RED	101.27
64SFD-300SD-HD	4	134	150	4:1	200	RED	15.34
80SFD-300SD-HD	5	160	150	4:1	200	RED	181.76
96SFD-300SD-HD	6	193	150	4:1	200	RED	242.77
128SFD-300SD-HD	8	249	150	4:1	200	RED	280.43

GATES S-SERIES 2000PSI LEG JETTING HOSE <> SLJ-2000-HD (2000 PSI)

Recommended For: Used water delivery hose for deluge systems on offshore oil rig installations.

Temperature Range: -4°F to +179°F [-20°C to +82°C]

Tube: Black NR/SBR blended

Reinforcement: High strength textile fabric

Design Factor: 4:1

Cover: Black NR/SBR or EPDM

Branding: Continuous transfer. Example: "SLJ-2000-HD LEG JETTING S.F. 4:1 2000 PSI [137.8 Bar]"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE [US\$/FT]
32SLJ-2000-HD	2	71	2000	4:1	200	BLACK	88.54
48SLJ-2000-HD	3	117	2000	4:1	200	BLACK	175.65
64SLJ-2000-HD	4	133	2000	4:1	200	BLACK	200.66
80SLJ-2000-HD	5	170	2000	4:1	200	BLACK	367.02
96SLJ-2000-HD	6	195	2000	4:1	200	BLACK	539.12

GATES S-SERIES 3000PSI LEG JETTING HOSE <> SLJ-3000-HD (3000 PSI)

Recommended For: Used water delivery hose for deluge systems on offshore oil rig installations.

Temperature Range: -4°F to +179°F [-20°C to +82°C]

Tube: Black NBR Rubber

Reinforcement: Spiral Steel Cable

Design Factor: 4:1

Cover: Black CR Rubber

Branding: Continuous transfer. Example: "SLJ-3000-HD LEG JETTING S.F. 4:1 3000 PSI [206.8 Bar]"



PRODUCT CODE	ID (INCH)	OD (MM)	WP (PSI)	SAFETY FACTOR	LENGTH (FT)	COVER	LIST PRICE [US\$/FT]
32SLJ-3000-HD	2	86	3000	4:1	200	BLACK	127.10
48SLJ-3000-HD	3	111	3000	4:1	200	BLACK	192.08
64SLJ-3000-HD	4	139	3000	4:1	200	BLACK	253.50
80SLJ-3000-HD	5	187	3000	4:1	200	BLACK	546.98
96SLJ-3000-HD	6	216	3000	4:1	200	BLACK	656.93

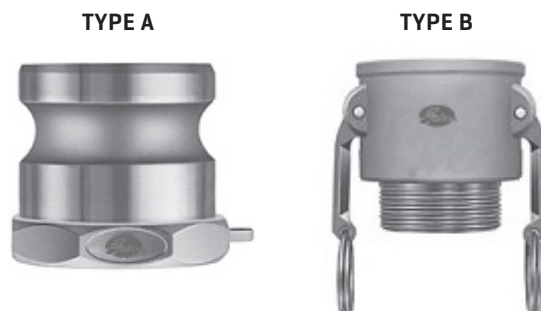
CAMLOCK FITTINGS

CAMLOCK FITTINGS <> SIMPLE & SECURE SEALING

Gates offer a vast range of Camlock fittings (also known as cam and groove couplings), providing quick connection and disconnection for liquid and dry product transportation. It can be used across many applications including water, petroleum and chemical.

For example pumps, tanks, equipment and places where hoses should be changed frequently to achieve a special aim like paint & ink factory. The couplings are available in aluminium, brass (bronze), and stainless steel material range from sizes 1/2" to 8".

WARNING: Under no circumstances should cam and groove couplings be used for compressed air or steam service.



CAMLOCK FITTINGS <> PART A

SIZE (INCH)	BRASS			STAINLESS STEEL			ALUMINIUM		
	PRODUCT CODE	LIST PRICE [US\$]	STD PACK	PRODUCT CODE	LIST PRICE [US\$]	STD PACK	PRODUCT CODE	LIST PRICE [US\$]	STD PACK
	8CLA-BR	7.36	40	8CLA-SS	6.10	40	8CLA-AL	3.85	40
3/4	12CLA-BR	8.18	40	12CLA-SS	8.35	40	12CLA-AL	2.08	40
1	16CLA-BR	10.30	40	16CLA-SS	13.07	40	16CLA-AL	2.38	40
1-1/4	20CLA-BR	17.74	20	20CLA-SS	17.31	20	20CLA-AL	3.59	20
1-1/2	24CLA-BR	24.14	20	24CLA-SS	24.10	20	24CLA-AL	3.89	20
2	32CLA-BR	23.71	20	32CLA-SS	25.18	20	32CLA-AL	4.80	20
2-1/2	40CLA-BR	40.71	12	40CLA-SS	48.67	12	40CLA-AL	7.31	12
3	48CLA-BR	46.94	12	48CLA-SS	49.24	12	48CLA-AL	8.22	12
4	64CLA-BR	84.37	8	64CLA-SS	88.56	8	64CLA-AL	14.06	8
5	80CLA-BR	131.35	8	80CLA-SS	177.91	8	80CLA-AL	30.72	8
6	96CLA-BR	171.11	6	96CLA-SS	208.24	6	96CLA-AL	28.86	6
8	128CLA-BR	-	4	128CLA-SS	670.61	4	128CLA-AL	153.16	4

QUICK CONNECTING COUPLING <> PART B

SIZE (INCH)	BRASS			STAINLESS STEEL			ALUMINIUM		
	PRODUCT CODE	LIST PRICE [US\$]	STD PACK	PRODUCT CODE	LIST PRICE [US\$]	STD PACK	PRODUCT CODE	LIST PRICE [US\$]	STD PACK
1/2	8CLB-BR	4.00	40	8CLB-SS	11.42	40	8CLB-AL	5.93	40
3/4	12CLB-BR	15.66	40	12CLB-SS	15.40	40	12CLB-AL	5.80	40
1	16CLB-BR	20.46	40	16CLB-SS	20.81	40	16CLB-AL	7.27	40
1-1/4	20CLB-BR	31.76	20	20CLB-SS	30.42	20	20CLB-AL	11.51	20
1-1/2	24CLB-BR	31.89	20	24CLB-SS	32.15	20	24CLB-AL	10.34	20
2	32CLB-BR	39.07	20	32CLB-SS	41.19	20	32CLB-AL	12.20	20
2-1/2	40CLB-BR	63.69	12	40CLB-SS	61.78	12	40CLB-AL	15.75	12
3	48CLB-BR	69.18	12	48CLB-SS	77.10	12	48CLB-AL	20.77	12
4	64CLB-BR	109.89	8	64CLB-SS	110.41	8	64CLB-AL	27.00	8
5	80CLB-BR	150.52	8	80CLB-SS	211.39	8	80CLB-AL	55.51	8
6	96CLB-BR	230.34	6	96CLB-SS	287.58	6	96CLB-AL	61.61	6
8	128CLB-BR	-	4	128CLB-SS	843.67	4	128CLB-AL	277.63	4

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



PART C



PART D



PART E

QUICK CONNECTING COUPLING <> PART C

SIZE (INCH)	BRASS			STAINLESS STEEL			ALUMINIUM		
	PRODUCT CODE	LIST PRICE [US\$]	STD PACK	PRODUCT CODE	LIST PRICE [US\$]	STD PACK	PRODUCT CODE	LIST PRICE [US\$]	STD PACK
1/2	8CLC-BR	14.71	40	8CLC-SS	10.82	40	8CLC-AL	5.45	40
3/4	12CLC-BR	15.58	40	12CLC-SS	15.36	40	12CLC-AL	5.45	40
1	16CLC-BR	20.38	40	16CLC-SS	20.72	40	16CLC-AL	6.92	40
1-1/4	20CLC-BR	32.45	20	20CLC-SS	31.93	20	20CLC-AL	11.55	20
1-1/2	24CLC-BR	34.05	20	24CLC-SS	31.89	20	24CLC-AL	10.77	20
2	32CLC-BR	46.42	20	32CLC-SS	43.78	20	32CLC-AL	12.72	20
2-1/2	40CLC-BR	60.92	12	40CLC-SS	71.08	12	40CLC-AL	16.44	12
3	48CLC-BR	83.07	12	48CLC-SS	78.27	12	48CLC-AL	22.54	12
4	64CLC-BR	129.80	8	64CLC-SS	123.52	8	64CLC-AL	32.67	8
5	80CLC-BR	213.60	8	80CLC-SS	281.87	8	80CLC-AL	56.81	8
6	96CLC-BR	372.60	6	96CLC-SS	327.09	6	96CLC-AL	75.71	6
8	128CLC-BR	-	4	128CLC-SS	1038.37	4	128CLC-AL	301.39	4

QUICK CONNECTING COUPLING <> PART D

SIZE (INCH)	BRASS			STAINLESS STEEL			ALUMINIUM		
	PRODUCT CODE	LIST PRICE [US\$]	STD PACK	PRODUCT CODE	LIST PRICE [US\$]	STD PACK	PRODUCT CODE	LIST PRICE [US\$]	STD PACK
1/2	8CLD-BR	16.66	40	8CLD-SS	12.29	40	8CLD-AL	6.19	40
3/4	12CLD-BR	17.18	40	12CLD-SS	15.96	40	12CLD-AL	6.06	40
1	16CLD-BR	22.07	40	16CLD-SS	22.80	40	16CLD-AL	7.57	40
1-1/4	20CLD-BR	32.10	20	20CLD-SS	32.75	20	20CLD-AL	11.81	20
1-1/2	24CLD-BR	34.83	20	24CLD-SS	39.54	20	24CLD-AL	11.16	20
2	32CLD-BR	40.19	20	32CLD-SS	51.88	20	32CLD-AL	13.24	20
2-1/2	40CLD-BR	64.47	12	40CLD-SS	68.14	12	40CLD-AL	15.96	12
3	48CLD-BR	80.86	12	48CLD-SS	78.44	12	48CLD-AL	21.33	12
4	64CLD-BR	120.97	8	64CLD-SS	123.00	8	64CLD-AL	30.98	8
5	80CLD-BR	165.01	8	80CLD-SS	246.05	8	80CLD-AL	55.42	8
6	96CLD-BR	292.56	6	96CLD-SS	293.81	6	96CLD-AL	68.19	6
8	128CLD-BR	-	4	128CLD-SS	843.67	4	128CLD-AL	277.63	4

QUICK CONNECTING COUPLING <> PART E

SIZE (INCH)	BRASS			STAINLESS STEEL			ALUMINIUM		
	PRODUCT CODE	LIST PRICE [US\$]	STD PACK	PRODUCT CODE	LIST PRICE [US\$]	STD PACK	PRODUCT CODE	LIST PRICE [US\$]	STD PACK
1/2	8CLE-BR	10.86	40	8CLE-SS	5.02	40	8CLE-AL	3.68	40
3/4	12CLE-BR	7.96	40	12CLE-SS	8.52	40	12CLE-AL	1.77	40
1	16CLE-BR	12.37	40	16CLE-SS	13.11	40	16CLE-AL	2.51	40
1-1/4	20CLE-BR	22.41	20	20CLE-SS	22.28	20	20CLE-AL	4.67	20
1-1/2	24CLE-BR	24.36	20	24CLE-SS	25.01	20	24CLE-AL	4.54	20
2	32CLE-BR	36.08	20	32CLE-SS	37.60	20	32CLE-AL	6.45	20
2-1/2	40CLE-BR	51.88	12	40CLE-SS	62.52	12	40CLE-AL	9.56	12
3	48CLE-BR	70.48	12	48CLE-SS	75.89	12	48CLE-AL	12.68	12
4	64CLE-BR	114.83	8	64CLE-SS	115.65	8	64CLE-AL	19.38	8
5	80CLE-BR	153.85	8	80CLE-SS	229.74	8	80CLE-AL	40.19	8
6	96CLE-BR	298.10	6	96CLE-SS	303.72	6	96CLE-AL	46.55	6
8	128CLE-BR	-	4	128CLE-SS	886.94	4	128CLE-AL	169.73	4

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PART F



PART DC



PART DP

QUICK CONNECTING COUPLING <> PART F

SIZE (INCH)	BRASS			STAINLESS STEEL			ALUMINIUM		
	PRODUCT CODE	LIST PRICE (US\$)	STD PACK	PRODUCT CODE	LIST PRICE (US\$)	STD PACK	PRODUCT CODE	LIST PRICE (US\$)	STD PACK
1/2	8CLF-BR	8.78	40	8CLF-SS	7.92	40	8CLF-AL	4.11	40
3/4	12CLF-BR	9.09	40	12CLF-SS	11.81	40	12CLF-AL	2.29	40
1	16CLF-BR	12.50	40	16CLF-SS	15.88	40	16CLF-AL	3.03	40
1-1/4	20CLF-BR	21.11	20	20CLF-SS	22.41	20	20CLF-AL	4.76	20
1-1/2	24CLF-BR	20.64	20	24CLF-SS	24.27	20	24CLF-AL	4.98	20
2	32CLF-BR	30.29	20	32CLF-SS	31.41	20	32CLF-AL	6.79	20
2-1/2	40CLF-BR	51.18	12	40CLF-SS	57.11	12	40CLF-AL	11.64	12
3	48CLF-BR	62.73	12	48CLF-SS	67.10	12	48CLF-AL	12.20	12
4	64CLF-BR	99.64	8	64CLF-SS	111.84	8	64CLF-AL	19.21	8
5	80CLF-BR	156.36	8	80CLF-SS	236.57	8	80CLF-AL	45.43	8
6	96CLF-BR	203.00	6	96CLF-SS	320.42	6	96CLF-AL	43.27	6
8	128CLF-BR	-	4	128CLF-SS	809.06	4	128CLF-AL	187.60	4

QUICK CONNECTING COUPLING <> PART DC

SIZE (INCH)	BRASS			STAINLESS STEEL			ALUMINIUM		
	PRODUCT CODE	LIST PRICE (US\$)	STD PACK	PRODUCT CODE	LIST PRICE (US\$)	STD PACK	PRODUCT CODE	LIST PRICE (US\$)	STD PACK
1/2	8CLDC-BR	13.72	40	8CLDC-SS	10.12	40	8CLDC-AL	5.45	40
3/4	12CLDC-BR	13.24	40	12CLDC-SS	13.20	40	12CLDC-AL	5.28	40
1	16CLDC-BR	17.65	40	16CLDC-SS	16.70	40	16CLDC-AL	6.40	40
1-1/4	20CLDC-BR	26.35	20	20CLDC-SS	25.14	20	20CLDC-AL	10.25	20
1-1/2	24CLDC-BR	27.13	20	24CLDC-SS	29.12	20	24CLDC-AL	9.60	20
2	32CLDC-BR	33.01	20	32CLDC-SS	34.48	20	32CLDC-AL	10.90	20
2-1/2	40CLDC-BR	49.50	12	40CLDC-SS	50.84	12	40CLDC-AL	14.41	12
3	48CLDC-BR	58.54	12	48CLDC-SS	63.56	12	48CLDC-AL	18.34	12
4	64CLDC-BR	91.55	8	64CLDC-SS	83.55	8	64CLDC-AL	23.36	8
5	80CLDC-BR	128.67	8	80CLDC-SS	181.20	8	80CLDC-AL	41.32	8
6	96CLDC-BR	177.39	6	96CLDC-SS	235.80	6	96CLDC-AL	56.98	6
8	128CLDC-BR	-	4	128CLDC-SS	713.88	4	128CLDC-AL	232.94	4

QUICK CONNECTING COUPLING <> PART DP

SIZE (INCH)	BRASS			STAINLESS STEEL			ALUMINIUM		
	PRODUCT CODE	LIST PRICE (US\$)	STD PACK	PRODUCT CODE	LIST PRICE (US\$)	STD PACK	PRODUCT CODE	LIST PRICE (US\$)	STD PACK
1/2	8CLDP-BR	7.36	40	8CLDP-SS	5.67	40	8CLDP-AL	3.07	40
3/4	12CLDP-BR	4.93	40	12CLDP-SS	8.52	40	12CLDP-AL	1.56	40
1	16CLDP-BR	7.66	40	16CLDP-SS	14.32	40	16CLDP-AL	1.82	40
1-1/4	20CLDP-BR	12.76	20	20CLDP-SS	14.75	20	20CLDP-AL	2.81	20
1-1/2	24CLDP-BR	12.37	20	24CLDP-SS	21.20	20	24CLDP-AL	3.29	20
2	32CLDP-BR	18.60	20	32CLDP-SS	38.77	20	32CLDP-AL	4.20	20
2-1/2	40CLDP-BR	30.50	12	40CLDP-SS	38.03	12	40CLDP-AL	6.01	12
3	48CLDP-BR	33.88	12	48CLDP-SS	64.51	12	48CLDP-AL	6.84	12
4	64CLDP-BR	59.36	8	64CLDP-SS	170.12	8	64CLDP-AL	11.16	8
5	80CLDP-BR	97.48	8	80CLDP-SS	219.53	8	80CLDP-AL	24.23	8
6	96CLDP-BR	155.50	6	96CLDP-SS	540.82	6	96CLDP-AL	25.40	6
8	128CLDP-BR	-	4	128CLDP-SS	-	4	128CLDP-AL	126.29	4

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.



PART FLA



PART FLB



SPOOL ADAPTER



SPOOL COUPLER

QUICK CONNECTING COUPLING <> PART FLA, PART FLB

SIZE (INCH)	FLA			FLB		
	BRASS	STAINLESS STEEL	ALUMINIUM	BRASS	STAINLESS STEEL	ALUMINIUM
	PRODUCT CODE	PRODUCT CODE	PRODUCT CODE	PRODUCT CODE	PRODUCT CODE	PRODUCT CODE
1/2	8CLFLA-BR	8CLFLA-SS	8CLFLA-AL	8CLFLB-BR	8CLFLB-SS	8CLFLB-AL
3/4	12CLFLA-BR	12CLFLA-SS	12CLFLA-AL	12CLFLB-BR	12CLFLB-SS	12CLFLB-AL
1	16CLFLA-BR	16CLFLA-SS	16CLFLA-AL	16CLFLB-BR	16CLFLB-SS	16CLFLB-AL
1-1/4	20CLFLA-BR	20CLFLA-SS	20CLFLA-AL	20CLFLB-BR	20CLFLB-SS	20CLFLB-AL
1-1/2	24CLFLA-BR	24CLFLA-SS	24CLFLA-AL	24CLFLB-BR	24CLFLB-SS	24CLFLB-AL
2	32CLFLA-BR	32CLFLA-SS	32CLFLA-AL	32CLFLB-BR	32CLFLB-SS	32CLFLB-AL
2-1/2	40CLFLA-BR	40CLFLA-SS	40CLFLA-AL	40CLFLB-BR	40CLFLB-SS	40CLFLB-AL
3	48CLFLA-BR	48CLFLA-SS	48CLFLA-AL	48CLFLB-BR	48CLFLB-SS	48CLFLB-AL
4	64CLFLA-BR	64CLFLA-SS	64CLFLA-AL	64CLFLB-BR	64CLFLB-SS	64CLFLB-AL
5	80CLFLA-BR	80CLFLA-SS	80CLFLA-AL	80CLFLB-BR	80CLFLB-SS	80CLFLB-AL
6	96CLFLA-BR	96CLFLA-SS	96CLFLA-AL	96CLFLB-BR	96CLFLB-SS	96CLFLB-AL
8	128CLFLA-BR	128CLFLA-SS	128CLFLA-AL	128CLFLB-BR	128CLFLB-SS	128CLFLB-AL

QUICK CONNECTING COUPLING <> SPOOL ADAPTER

SIZE (INCH)	BRASS	STAINLESS STEEL	ALUMINIUM
	PRODUCT CODE	PRODUCT CODE	PRODUCT CODE
1"	16CLSLA-BR	16CLSLA-SS	16CLSLA-AL
1-1/4"	20CLSLA-BR	20CLSLA-SS	20CLSLA-AL
1-1/2"	24CLSLA-BR	24CLSLA-SS	24CLSLA-AL
1-1/2" x 2"	24-32CLSLA-BR	24-32CLSLA-SS	24-32CLSLA-AL
2"	32CLSLA-BR	32CLSLA-SS	32CLSLA-AL
2" x 3"	32-48CLSLA-BR	32-48CLSLA-SS	32-48CLSLA-AL
2" x 4"	32-64CLSLA-BR	32-64CLSLA-SS	32-64CLSLA-AL
2-1/2" x 3"	40-48CLSLA-BR	40-48CLSLA-SS	40-48CLSLA-AL
2-1/2" x 4"	40-64CLSLA-BR	40-64CLSLA-SS	40-64CLSLA-AL
3"	48CLSLA-BR	48CLSLA-SS	48CLSLA-AL
3" x 4"	48-64CLSLA-BR	48-64CLSLA-SS	48-64CLSLA-AL
4"	64CLSLA-BR	64CLSLA-SS	64CLSLA-AL
4" x 5"	64-80CLSLA-BR	64-80CLSLA-SS	64-80CLSLA-AL
4" x 6"	64-96CLSLA-BR	64-96CLSLA-SS	64-96CLSLA-AL
5"	80CLSLA-BR	80CLSLA-SS	80CLSLA-AL
5" x 6"	80-96CLSLA-BR	80-96CLSLA-SS	80-96CLSLA-AL
6"	96CLSLA-BR	96CLSLA-SS	96CLSLA-AL

QUICK CONNECTING COUPLING <> SPOOL COUPLER

SIZE (INCH)	BRASS	STAINLESS STEEL	ALUMINIUM
	PRODUCT CODE	PRODUCT CODE	PRODUCT CODE
1-1/2"	24CLSCL-BR	24CLSCL-SS	24CLSCL-AL
2"	32CLSCL-BR	32CLSCL-SS	32CLSCL-AL
2" x 3"	32-48CLSCL-BR	32-48CLSCL-SS	32-48CLSCL-AL
3"	48CLSCL-BR	48CLSCL-SS	48CLSCL-AL
3" x 4"	48-64CLSCL-BR	48-64CLSCL-SS	48-64CLSCL-AL
4"	64CLSCL-BR	64CLSCL-SS	64CLSCL-AL
4" x 5"	64-80CLSCL-BR	64-80CLSCL-SS	64-80CLSCL-AL
5"	80CLSCL-BR	80CLSCL-SS	80CLSCL-AL
6"	96CLSCL-BR	96CLSCL-SS	96CLSCL-AL



REDUCER



GASKET



HANDLE

CAMLOCK FITTINGS <> TYPE "REDUCER"

	BRASS	STAINLESS STEEL	ALUMINIUM
SIZE (INCH)	PRODUCT CODE	PRODUCT CODE	PRODUCT CODE
1-1/2" x 1"	24-16CLR-BR	24-16CLR-SS	24-16CLR-AL
1-1/2" x 2"	24-32CLR-BR	24-32CLR-SS	24-32CLR-AL
2" x 1-1/2"	32-24CLR-BR	32-24CLR-SS	32-24CLR-AL
2" x 3"	32-48CLR-BR	32-48CLR-SS	32-48CLR-AL
2" x 4"	32-64CLR-BR	32-64CLR-SS	32-64CLR-AL
3" x 1-1/2"	48-24CLR-BR	48-24CLR-SS	48-24CLR-AL
3" x 2"	48-32CLR-BR	48-32CLR-SS	48-32CLR-AL
3" x 2-1/2"	48-40CLR-BR	48-40CLR-SS	48-40CLR-AL
3" x 4"	48-64CLR-BR	48-64CLR-SS	48-64CLR-AL
4" x 2"	64-32CLR-BR	64-32CLR-SS	64-32CLR-AL
4" x 2-1/2"	64-40CLR-BR	64-40CLR-SS	64-40CLR-AL
4" x 3"	64-48CLR-BR	64-48CLR-SS	64-48CLR-AL
4" x 6"	64-96CLR-BR	64-96CLR-SS	64-96CLR-AL
5" x 4"	80-64CLR-BR	80-64CLR-SS	80-64CLR-AL
6" x 4"	96-64CLR-BR	96-64CLR-SS	96-64CLR-AL

CAMLOCK FITTINGS <> GASKET

SIZE (INCH)	PRODUCT CODE	LIST PRICE (US\$)	STD PACK
1/2	8CLG-BN	0.30	100
3/4	12CLG-BN	0.30	100
1	16CLG-BN	0.35	100
1-1/4	20CLG-BN	0.61	100
1-1/2	24CLG-BN	0.61	100
2	32CLG-BN	0.74	100
2-1/2	40CLG-BN	1.08	100
3	48CLG-BN	1.38	100
4	64CLG-BN	1.86	50
5	80CLG-BN	3.20	50
6	96CLG-BN	10.08	50
8	128CLG-BN	-	50

PRODUCT DESCRIPTION:

Size: 1/2", 3/4", 1", 1 1/2", 2", 2 1/2", 3", 4", 5", 6" and 8";
 Temperature range: -30°C [-22°F] to 100°C [212°F];
 Hardness, Shore A: 40 – 90 degree;
 Tensile strength: 25 MPa;
 Elongation: >300%;

CAMLOCK FITTINGS <> HANDLES

Camlock handles are available in brass, stainless steel and aluminum material and range from size 3/4" to 8".

	BRASS	STAINLESS STEEL	ALUMINIUM
SIZE (INCH)	PRODUCT CODE	PRODUCT CODE	PRODUCT CODE
1/2	8CLH-BR	8CLH-SS	8CLH-AL
3/4	12CLH-BR	12CLH-SS	12CLH-AL
1	16CLH-BR	16CLH-SS	16CLH-AL
1-1/4	20CLH-BR	20CLH-SS	20CLH-AL
1-1/2	24CLH-BR	24CLH-SS	24CLH-AL
2	32CLH-BR	32CLH-SS	32CLH-AL
2-1/2	40CLH-BR	40CLH-SS	40CLH-AL
3	48CLH-BR	48CLH-SS	48CLH-AL
4	64CLH-BR	64CLH-SS	64CLH-AL
5	80CLH-BR	80CLH-SS	80CLH-AL
6	96CLH-BR	96CLH-SS	96CLH-AL
8	128CLH-BR	128CLH-SS	128CLH-AL

SAFETY NOTES:

Worn-out hose couplings can be dangerous. They should be checked regularly and replaced when necessary. Each coupling user should review applications and add safety devices where indicated.

Note. Pressurized steam is an extremely dangerous commodity. Only hose, fittings, clamps and accessory items that have been approved for steam service should ever be used! Never use an unapproved item for steam service. Always follow the manufacturer's product recommendations for pressurized steam handling.

GROUND JOINT FITTINGS

GROUND JOINT FITTINGS <> SIMPLE & SECURE SEALING

Ground joint fittings are for heavy-duty applications such as steam, air supply for construction, roadbuilding, and drilling applications. The coarse threads make ground joint fittings easy to couple in the field, and the heavy wing nuts can be tightened using a hammer or mallet. Collars on the hose stems are designed for use with bolt interlocking clamps. Typical hose assemblies will have stems and wing nuts on both ends fastened with clamps. Hose lengths can then be joined using double spuds. Male and female spuds are used to adapt to pipe thread ends on valves, pipe fittings, or manifolds. Ground joint fittings are made from plated ductile iron. Small size stems are plated carbon steel and small double spuds are brass.



GROUND JOINT <> COMPLETE FEMALE, STEM, WING NUT

SIZE (INCH)	COMPLETE FEMALE			STEM			WING NUT		
	PRODUCT CODE	LIST PRICE [USD]	STD PACK	PRODUCT CODE	LIST PRICE [USD]	STD PACK	PRODUCT CODE	LIST PRICE [USD]	STD PACK
1/2	8GJ-FCI	21.20	50	8GJ-FSI	7.48	50	8GJ-WNI	4.67	50
3/4	12GJ-FCI	23.58	50	12GJ-FSI	5.36	50	12GJ-WNI	6.92	50
1	16GJ-FCI	24.27	50	16GJ-FSI	6.06	50	16GJ-WNI	6.92	50
1-1/4	20GJ-FCI	38.85	50	20GJ-FSI	10.64	50	20GJ-WNI	12.07	50
1-1/2	24GJ-FCI	40.37	50	24GJ-FSI	12.16	50	24GJ-WNI	12.07	50
2	32GJ-FCI	56.98	50	32GJ-FSI	15.45	50	32GJ-WNI	20.68	50
2-1/2	40GJ-FCI	120.93	30	40GJ-FSI	31.63	30	40GJ-WNI	39.59	30
3	48GJ-FCI	142.69	30	48GJ-FSI	39.89	30	48GJ-WNI	43.35	30
4	64GJ-FCI	244.10	30	64GJ-FSI	72.38	30	64GJ-WNI	81.64	30
6	96GJ-FCI	-	20	96GJ-FSI	-	20	96GJ-WNI	-	20

GROUND JOINT <> SPUDS

Spuds are used with Ground Joint Clamps and Fittings, works with existing fittings. Recommended for steam service up to 232°C [450°F].



SIZE (INCH)	FEMALE SPUD			MALE SPUD			DOUBLE SPUD		
	PRODUCT CODE	LIST PRICE [USD]	STD PACK	PRODUCT CODE	LIST PRICE [USD]	STD PACK	PRODUCT CODE	LIST PRICE [USD]	STD PACK
1/2	8GJ-FSDI	10.17	50	8GJ-MSDI	7.92	50	8GJ-MSDSDI	9.35	50
3/4	12GJ-FSDI	11.29	50	12GJ-MSDI	12.89	50	12GJ-MSDSDI	17.31	50
1	16GJ-FSDI	11.29	50	16GJ-MSDI	12.89	50	16GJ-MSDSDI	17.31	50
1-1/4	20GJ-FSDI	16.14	50	20GJ-MSDI	20.38	50	20GJ-MSDSDI	31.80	50
1-1/2	24GJ-FSDI	16.14	50	24GJ-MSDI	22.93	50	24GJ-MSDSDI	31.80	50
2	32GJ-FSDI	20.85	50	32GJ-MSDI	30.50	50	32GJ-MSDSDI	41.53	50
2-1/2	40GJ-FSDI	49.71	30	40GJ-MSDI	-	30	40GJ-MSDSDI	-	30
3	48GJ-FSDI	59.45	30	48GJ-MSDI	-	30	48GJ-MSDSDI	84.15	30
4	64GJ-FSDI	90.08	30	64GJ-MSDI	-	30	64GJ-MSDSDI	-	30
6	96GJ-FSDI	-	20	96GJ-MSDI	-	20	96GJ-MSDSDI	-	20

GROUND JOINT FITTINGS

GROUND JOINT <> CLAMPS

The bolts used in the Ground Joint interlocking clamps are not standard bolts. They vary from standard bolts in their length, diameter, overall thread length and material hardness.

These bolts can be retorqued, but it is not recommended that the bolts or clamps be reused, as they are designed for a single bend only. Torque values for clamps are based on dry bolts. The use of lubricant on bolts will adversely effect clamp performance. Do not lubricate nuts and bolts.

Gates Engineering & Services recommends using only factory supplied replacement bolts. Recommended torque rating in ft. lbs.

[NOTE: The use of non Gates Engineering & Services bolts may result in serious injury or damage]

GROUND JOINT <> 2-BOLTS / 2-GRIPPING FINGERS CLAMP (DUCTILE IRON ZN-PLATED)



PRODUCT CODE	HOSE ID (INCH)	RANGE (INCH)		LIST PRICE	STD PACK
		Min	Max	US\$	
8GJ-CL0812	1/2	13/16	15/16	3.46	50
8GJ-CL0937	1/2	15/16	1-1/16	3.89	50
8GJ-CL1062	1/2	1-1/16	1-3/16	3.76	50
12GJ-CL1156	3/4	1-5/32	1-9/32	5.84	50
12GJ-CL1187	3/4	1-3/16	1-5/16	5.84	50
12GJ-CL1312	3/4	1-5/16	1-1/2	7.36	50
12GJ-CL1500	3/4	1-1/2	1-11/16	8.22	50

GROUND JOINT <> 4-BOLTS / 2-GRIP FINGERS CLAMP (DUCTILE IRON ZN-PLATED)



PRODUCT CODE	HOSE ID (INCH)	RANGE (INCH)		LIST PRICE	STD PACK
		Min	Max	US\$	
16GJ-CL1531	1	1-17/32	1-23/32	11.68	50
16GJ-CL1406	1	1-13/32	1-9/16	10.95	50
16GJ-CL1687	1	1-11/16	1-27/32	11.85	50
16GJ-CL1875	1	1-7/8	2-1/16	13.67	50
20GJ-CL2166	1-1/4	2-1/16	2-1/4	15.49	50
24GJ-CL2000	1-1/2	2	2-7/32	18.00	50
24GJ-CL2093	1-1/2	2-3/32	2-9/32	16.18	50
24GJ-CL2250	1-1/2	2-1/4	2-7/16	19.86	50
24GJ-CL2468	1-1/2	2-15/32	2-23/32	19.86	50
32GJ-CL2343	2	2-11/32	2-17/32	22.89	30
32GJ-CL2500	2	2-1/2	2-25/32	19.86	30
32GJ-CL2750	2	2-3/4	3-1/16	28.30	30
32GJ-CL3093	2	3-3/32	3-7/16	28.04	30
24GJ-CL3500	2-1/2	3-1/2	3-15/16	47.72	30
48GJ-CL3500	3	3-1/2	3-15/16	57.11	30
48GJ-CL3812	3	3-13/16	4-1/16	58.88	30
48GJ-CL4062	3	4-1/16	4-7/16	72.21	30
48GJ-CL4187	3	4	4-3/16	72.21	30

GROUND JOINT <> 6-BOLTS / 3-GRIP FINGERS CLAMP (DUCTILE IRON ZN-PLATED)

PRODUCT CODE	HOSE ID (INCH)	RANGE (INCH)		LIST PRICE	STD PACK
		Min	Max	US\$	
48GJ-CL4250	3	4-1/4	1-13/16	82.29	30
64GJ-CL4875	4	4-7/8	5-5/16	154.20	20
64GJ-CL5125	4	5-1/8	6-3/16	161.47	20

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.

UNIVERSAL QUICK ACTING COUPLING

UNIVERSAL QUICK ACTING COUPLING <> FEMALE THREADED

Universal Quick Acting Couplings are most commonly used on hose lines connecting pneumatic tools to a compressed air source. Firmly pressing one coupler to another and twisting seals the connection. Safety clips prevent accidental disconnection during use. A convenient quick connect system to mate varying diameters of hose as all sizes up to 1 inch are interchangeable. Sizes over 1 inch have a four lug design. Universal Quick Acting Coupling do not interchange with sandblast, Minsup, or European style couplings of similar design.

There are available in ductile iron material, 2 claws couplings size range from 1/4" to 1" and 4 claws couplings size range from 1-1/4" to 2".



UNIVERSAL QUICK ACTING COUPLING <> 2 CLAWS

SIZE (INCH)	2 CLAW FEMALE			2 CLAW MALE			2 CLAW HOSE END		
	PRODUCT CODE	LIST PRICE [USD]	STD PACK	PRODUCT CODE	LIST PRICE [USD]	STD PACK	PRODUCT CODE	LIST PRICE [USD]	STD PACK
1/4	4CC-2FI	4.07	100	4CC-2MI	4.07	100	4CC-2HEI	-	100
3/8	6CC-2FI	4.07	100	6CC-2MI	4.07	100	6CC-2HEI	3.46	100
1/2	8CC-2FI	4.07	100	8CC-2MI	4.07	100	8CC-2HEI	3.37	100
3/4	12CC-2FI	4.33	100	12CC-2MI	4.28	100	12CC-2HEI	3.94	100
1	16CC-2FI	4.54	100	16CC-2MI	4.98	100	16CC-2HEI	4.76	100

UNIVERSAL QUICK ACTING COUPLING <> 4 CLAWS



SIZE (INCH)	2 CLAW FEMALE			2 CLAW MALE			2 CLAW HOSE END		
	PRODUCT CODE	LIST PRICE [USD]	STD PACK	PRODUCT CODE	LIST PRICE [USD]	STD PACK	PRODUCT CODE	LIST PRICE [USD]	STD PACK
1-1/4"	20CC-4FI	12.55	20	20CC-4MI	12.98	20	20CC-4HEI	13.41	20
1-1/2"	24CC-4FI	11.85	20	24CC-4MI	13.41	20	24CC-4HEI	14.88	20
2"	32CC-4FI	14.41	20	32CC-4MI	14.71	20	32CC-4HEI	17.39	20

UNIVERSAL QUICK ACTING COUPLING <> ACCESSORIES



WASHER [1/4" - 1"]			WASHER [1-1/4" - 2"]			SAFETY CLIP		
PRODUCT CODE	LIST PRICE [USD]	STD PACK	PRODUCT CODE	LIST PRICE [USD]	STD PACK	PRODUCT CODE	LIST PRICE [USD]	STD PACK
SCCG-R	0.43	100	LCCG-R	1.08	200	GCC	0.17	500

CHICAGO COUPLING

UNIVERSAL QUICK ACTING COUPLING <> CLAMPS

PRODUCT CODE	HOSE ID (INCH)	RANGE (INCH)		LIST PRICE [US\$]	STD PACK
		Min	Max		
6CC-CL44	3/8	11/16	3/4	3.76	100
8CC-CL100	1/2	1	1-1/8	3.76	100
12CC-CL108	3/4	1-1/8	1-5/16	5.84	100
16CC-CL120	1	1-5/16	1-1/2	6.58	100
20CC-CL132	1	1-1/2	1-13/16	6.58	100



WHIPCHECK <> HOSE TO HOSE SERVICE (CARBON STEEL WIRE ROPE)



HOSE TO HOSE

Be safety conscious and promote the use of Whip Checks on all pressurized hose applications. To prevent serious injury due to hose or coupling failure, add a Whip Check at each hose connection and from equipment to hose. Install in the fully extended position (no slack) for proper safety assurance. Spring-loaded loops in the cable ends open easily to slip over the couplings for a firm grip on the hose. Also known as whip arrestors or hose choker cables.



HOSE TO TOOL

HOSE TO HOSE SERVICE (CARBON STEEL WIREROPE)					
SIZE RANGE (INCH)	LENGTH (INCH)	CABLE DIA (INCH)	PRODUCT CODE	LIST PRICE (US\$)	STD PACK
1/2 - 1-1/4	20-1/4	1/8	2WHH-CS	6.88	10
1/2 - 2.0	28	3/16	3WHH-CS	13.11	10
1-1/2 - 3	38	1/4	4WHH-CS	14.02	8
4	44	3/8	6WHH-CS	33.75	6

HOSE TO TOOL SERVICE (CARBON STEEL WIREROPE)					
SIZE RANGE (INCH)	LENGTH (INCH)	CABLE DIA (INCH)	PRODUCT CODE	LIST PRICE (US\$)	STD PACK
1/2 - 1-1/4	20-1/4	1/8	2WHT-CS	10.51	10
1/2 - 2.0	28	3/16	3WHT-CS	21.55	10
1-1/2 - 3	38	1/4	4WHT-CS	22.63	8
4	44	3/8	6WHT-CS	42.75	6

UNIVERSAL QUICK ACTING COUPLING <> HOSE MENDER

SIZE INC.	MALLEABLE IRON PART NUMBER	LIST PRICE [USD]	STD PACK	PLATED STEEL PART NUMBER	LIST PRICE [USD]	STD PACK
1/2"	4GJ-HMI	-	-	4GJ-HMPS	-	-
3/4"	12GJ-HMI	-	-	12GJ-HMPS	-	-
1"	16GJ-HMI	-	-	16GJ-HMPS	-	-
1-1/4"	20GJ-HMI	-	-	20GJ-HMPS	-	-
1-1/2"	24GJ-HMI	-	-	24GJ-HMPS	-	-
2"	32GJ-HMI	-	-	32GJ-HMPS	-	-
2-1/2"	40GJ-HMI	-	-	40GJ-HMPS	-	-
3"	48GJ-HMI	-	-	48GJ-HMPS	-	-



HOSE MENDER

COMBINATION NIPPLE

COMBINATION NIPPLE <> FEMALE THREADED

"King Combination" Nipples are industrial hose fittings barbed on one side for hose insertion and threaded on the other for connection. Most commonly used in trash pump suction and discharge hose assemblies, crimp sleeves are available and recommended for low pressure discharge and suction service of compatible liquids.

NOTE:

- NOT RECOMMENDED for steam service.
- NOT RECOMMENDED for compressible products such as gases - air - nitrogen oxygen, etc.



COMBINATION NIPPLE <> NPT END

SIZE (INCH)	CARBON STEEL			STAINLESS STEEL		
	PRODUCT CODE	LIST PRICE (USD)	STD PACK	PRODUCT CODE	LIST PRICE (USD)	STD PACK
1/2	8KC-PPS	2.64	50	8KC-PSS	8.18	50
3/4	12KC-PPS	2.86	50	12KC-PSS	9.04	50
1	16KC-PPS	3.29	50	16KC-PSS	12.29	50
1-1/4	20KC-PPS	4.24	20	20KC-PSS	13.97	20
1-1/2	24KC-PPS	5.19	20	24KC-PSS	18.56	20
2	32KC-PPS	6.45	20	32KC-PSS	24.96	20
2-1/2	40KC-PPS	12.20	10	40KC-PSS	41.10	10
3	48KC-PPS	15.14	10	48KC-PSS	50.75	10
4	64KC-PPS	23.02	8	64KC-PSS	77.57	8
6	96KC-PPS	63.08	6	96KC-PSS	249.42	6

COMBINATION NIPPLE - BSPT END

SIZE	CARBON STEEL			STAINLESS STEEL		
	PRODUCT CODE	LIST PRICE (USD)	STD PACK	PRODUCT CODE	LIST PRICE (USD)	STD PACK
1/2	8KC-BTPS	2.64	50	8KC-BTSS	8.18	50
3/4	12KC-BTPS	2.86	50	12KC-BTSS	9.04	50
1	16KC-BTPS	3.29	50	16KC-BTSS	12.29	50
1-1/4	20KC-BTPS	4.24	20	20KC-BTSS	13.97	20
1-1/2	24KC-BTPS	5.19	20	24KC-BTSS	18.56	20
2	32KC-BTPS	6.45	20	32KC-BTSS	24.96	20
2-1/2	40KC-BTPS	12.20	10	40KC-BTSS	41.10	10
3	48KC-BTPS	15.14	10	48KC-BTSS	50.75	10
4	64KC-BTPS	23.02	8	64KC-BTSS	77.57	8
6	96KC-BTPS	63.08	6	96KC-BTSS	249.42	6

COMBINATION NIPPLE - BEVEL END

SIZE	CARBON STEEL			STAINLESS STEEL		
	PRODUCT CODE	LIST PRICE (USD)	STD PACK	PRODUCT CODE	LIST PRICE (USD)	STD PACK
1/2	8KC-WNPS	2.64	50	8KC-WNSS	8.18	50
3/4	12KC-WNPS	2.86	50	12KC-WNSS	9.04	50
1	16KC-WNPS	3.29	50	16KC-WNSS	12.29	50
1-1/4	20KC-WNPS	4.24	20	20KC-WNSS	13.97	20
1-1/2	24KC-WNPS	5.19	20	24KC-WNSS	18.56	20
2	32KC-WNPS	6.45	20	32KC-WNSS	24.96	20
2-1/2	40KC-WNPS	12.20	10	40KC-WNSS	41.10	10
3	48KC-WNPS	15.14	10	48KC-WNSS	50.75	10
4	64KC-WNPS	23.02	8	64KC-WNSS	77.57	8
6	96KC-WNPS	63.08	6	96KC-WNSS	249.42	6

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.

COMBINATION NIPPLE

COMBINATION NIPPLE <> NPT END

SIZE (INCH)	CARBON STEEL			STAINLESS STEEL		
	PRODUCT CODE	LIST PRICE (USD)	STD PACK	PRODUCT CODE	LIST PRICE (USD)	STD PACK
1/2	8KC-GNPS	2.64	50	8KC-GNSS	8.18	50
3/4	12KC-GNPS	2.86	50	12KC-GNSS	9.04	50
1	16KC-GNPS	3.29	50	16KC-GNSS	12.29	50
1-1/4	20KC-GNPS	4.24	20	20KC-GNSS	13.97	20
1-1/2	24KC-GNPS	5.19	20	24KC-GNSS	18.56	20
2	32KC-GNPS	6.45	20	32KC-GNSS	24.96	20
2-1/2	40KC-GNPS	12.20	10	40KC-GNSS	41.10	10
3	48KC-GNPS	15.14	10	48KC-GNSS	50.75	10
4	64KC-GNPS	23.02	8	64KC-GNSS	77.57	8
6	96KC-GNPS	63.08	6	96KC-GNSS	249.42	6

CRIMP TYPE

COMBINATION NIPPLE <> NPT END (CRIMP TYPE)

NPT END
(CRIMP)



BSPT END
(CRIMP)



SIZE	CARBON STEEL			STAINLESS STEEL		
	PRODUCT CODE	LIST PRICE (USD)	STD PACK	PRODUCT CODE	LIST PRICE (USD)	STD PACK
3	48CKC-PPS	56.24	10	48CKC-PSS	157.92	10
4	64CKC-PPS	60.57	10	64CKC-PSS	186.04	10
5	80CKC-PPS	108.16	8	80CKC-PSS	281.22	8
6	96CKC-PPS	147.10	8	96CKC-PSS	519.18	8
8	128CKC-PPS	-	6	128CKC-PSS	-	6

COMBINATION NIPPLE - BSPT END (CRIMP TYPE)

SIZE	CARBON STEEL			STAINLESS STEEL		
	PRODUCT CODE	LIST PRICE (USD)	STD PACK	PRODUCT CODE	LIST PRICE (USD)	STD PACK
3	48CKC-WNPS	56.24	10	48CKC-WNSS	157.92	10
4	64CKC-WNPS	60.57	10	64CKC-WNSS	186.04	10
5	80CKC-WNPS	108.16	6	80CKC-WNSS	281.22	6
6	96CKC-WNPS	147.10	6	96CKC-WNSS	519.18	6
8	128CKC-WNPS	-	4	128CKC-WNSS	-	4

COMBINATION NIPPLE

COMBINATION NIPPLE <> CRIMP FERRULE



FERRULE

HOSE ID (INCH)	HOSE OD (MM)		CARBON STEEL			STAINLESS STEEL		
	MIN	MAX	PRODUCT CODE	LIST PRICE (USD)	STD PACK	PRODUCT CODE	LIST PRICE (USD)	STD PACK
3	88	90	92CKC-FRPS	73.55	10	92CKC-FRSS	259.59	10
3	90	92	94CKC-FRPS	77.88	10	94CKC-FRSS	268.24	10
3	93	95	97CKC-FRPS	80.47	10	97CKC-FRSS	276.90	10
3	98	100	102CKC-FRPS	80.47	10	102CKC-FRSS	302.86	10
3	105	108	110CKC-FRPS	83.07	10	110CKC-FRSS	311.51	10
4	113	116	118CKC-FRPS	83.07	10	118CKC-FRSS	320.16	10
4	117	120	122CKC-FRPS	83.93	10	122CKC-FRSS	324.49	10
4	120	124	126CKC-FRPS	85.67	10	126CKC-FRSS	333.14	10
4	125	128	130CKC-FRPS	86.53	10	130CKC-FRSS	341.80	10
4	127	130	132CKC-FRPS	95.18	10	132CKC-FRSS	354.78	10
4	130	134	136CKC-FRPS	103.84	10	136CKC-FRSS	367.76	10
5	142	147	149CKC-FRPS	112.49	10	149CKC-FRSS	389.39	10
5	147	150	152CKC-FRPS	114.65	10	152CKC-FRSS	398.04	10
5	150	153	155CKC-FRPS	116.82	10	155CKC-FRSS	406.69	10
5	161	164	166CKC-FRPS	138.45	10	166CKC-FRSS	415.35	10
6	168	171	173CKC-FRPS	160.08	6	173CKC-FRSS	778.78	6
6	173	176	178CKC-FRPS	160.08	6	178CKC-FRSS	791.76	6
6	177	180	182CKC-FRPS	168.73	6	182CKC-FRSS	804.73	6
6	181	184	186CKC-FRPS	190.37	6	186CKC-FRSS	822.04	6
6	188	191	193CKC-FRPS	212.00	6	193CKC-FRSS	843.67	6
8	225	228	230CKC-FRPS	-	4	230CKC-FRSS	-	4
8	234	237	239CKC-FRPS	-	4	239CKC-FRSS	-	4

HOSE CLAMPS

HOSE CLAMPS <> DOUBLE BOLT CLAMPS

Inner surface has dual gripping ridges. Bolt lugs are reinforced to prevent bending out of alignment. For the smaller sizes (3/4" to 2"), they are popular for hydraulic suction lines, while the larger clamps are often used for irrigation and general suction and discharge service. The use of lubricant on bolts will adversely effect clamp performance. Consult Gates

Engineering and Services when using double bolt clamps on helical wire hose. Measure hose OD accurately before ordering clamps. Torque values for clamps are based on dry bolts.



DOUBLE BOLT CLAMPS

PRODUCT CODE	RANGE (INCH)		LIST PRICE [US\$]	STD PACK
	Min	Max		
DBC-42	21/32	7/8	2.38	50
DBC-56	7/8	1-9/64	3.03	50
DBC-110	1-5/32	1-11/32	3.16	50
DBC-120	1-5/16	1-19/32	4.24	50
DBC-140	1-5/8	1-15/16	5.19	50
DBC-156	1-7/8	2-3/8	6.14	50
DBC-224	2-3/8	3-7/16	6.92	50
DBC-332	3-1/2	3-11/16	9.95	50
DBC-348	3-3/4	4-1/2	14.19	30
DBC-332	3-1/2	4	13.72	30
DBC-350	3-25/32	4-1/16	15.62	30
DBC-404	4-1/16	4-7/16	13.54	30
DBC-400	4-3/16	5	16.96	30
DBC-532	5	5-1/2	16.35	30
DBC-532	5-1/2	6-1/16	21.46	30
DBC-544	5-11/16	5-15/16	20.72	30
DBC-608	6-1/8	6-7/8	21.68	20
DBC-660	6-15/16	7-5/8	23.02	20
DBC-744	7-11/16	8-3/16	38.98	20
DBC-816	8-1/4	8-7/8	41.28	20
DBC-860	8-15/16	9-7/8	44.48	20
DBC-960	9-15/16	11-3/8	67.54	20
DBC-1K1	11-3/16	13	73.77	20
DBC-1K2	12-3/16	14	112.10	20
DBC-1K3	13-3/16	15	120.19	20

HOSE CLAMPS

T-BOLT CLAMP

T-Bolt Clamp available in both stainless steel band with carbon steel bolt and stainless steel band with stainless steel bolt combination.

Torque 50 in. lbs. Ideal for a variety of applications including hydraulic suction lines, truck and bus radiator hoses, and water suction and discharge service.



HOSE OD INC.		STAINLESS STEEL BAND, STAINLESS STEEL BOLT PART NUMBER	HOSE OD INC.		STAINLESS STEEL BAND, STAINLESS STEEL BOLT PART NUMBER	HOSE OD INC.		STAINLESS STEEL BAND, STAINLESS STEEL BOLT PART NUMBER
FROM	TO		FROM	TO		FROM	TO	
1.250"	1.4063"	STBC-1250	2.886"	3.182"	STBC-2886	6.016"	6.312"	STBC-6016
1.344"	1.562"	STBC-1344	3.016"	3.312"	STBC-3016	6.266"	6.562"	STBC-6266
1.474"	1.692"	STBC-1474	3.266"	3.562"	STBC-3266	6.516"	6.812"	STBC-6516
1.594"	1.812"	STBC-1594	3.386"	3.682"	STBC-3386	6.766"	7.062"	STBC-6766
1.724"	1.942"	STBC-1724	3.516"	3.812"	STBC-3516	7.016"	7.312"	STBC-7016
1.844"	2.062"	STBC-1844	3.586"	3.882"	STBC-3586	7.266"	7.562"	STBC-7266
1.964"	2.182"	STBC-1964	3.766"	4.062"	STBC-3766	7.766"	8.062"	STBC-7766
2.094"	2.312"	STBC-2094	4.016"	4.312"	STBC-4016	8.016"	8.312"	STBC-8016
2.224"	2.442"	STBC-2224	4.266"	4.562"	STBC-4266	8.266"	8.562"	STBC-8266
2.344"	2.562"	STBC-2344	4.516"	4.812"	STBC-4516	8.646"	8.942"	STBC-8646
2.326"	2.622"	STBC-2326	4.766"	5.062"	STBC-4766	8.766"	9.062"	STBC-8766
2.396"	2.692"	STBC-2396	5.016"	5.312"	STBC-5016	9.266"	9.562"	STBC-9266
2.516"	2.812"	STBC-2516	5.266"	5.562"	STBC-5266	9.766"	10.062"	STBC-9766
2.646"	2.942"	STBC-2646	5.516"	5.812"	STBC-5516	10.646"	10.942"	STBC-10646
2.766"	3.062"	STBC-2766	5.766"	6.062"	STBC-5766	11.766"	12.062"	STBC-11766
						12.646"	12.942"	STBC-12646

HOSE OD INC.		STAINLESS STEEL BAND, CARBON STEEL BOLT PART NUMBER	HOSE OD INC.		STAINLESS STEEL BAND, CARBON STEEL BOLT PART NUMBER
FROM	TO		FROM	TO	
1.250"	1.406"	TBC-1250	3.516"	3.812"	TBC-3516
1.344"	1.562"	TBC-1344	3.586"	3.882"	TBC-3586
1.594"	1.812"	TBC-1594	3.766"	4.062"	TBC-3766
1.724"	1.942"	TBC-1724	4.016"	4.312"	TBC-4016
1.844"	2.062"	TBC-1844	4.266"	4.562"	TBC-4266
2.094"	2.312"	TBC-2094	4.516"	4.812"	TBC-4516
2.224"	2.442"	TBC-2224	4.766"	5.062"	TBC-4766
2.344"	2.562"	TBC-2344	5.016"	5.312"	TBC-5016
2.326"	2.622"	TBC-2326	5.266"	5.562"	TBC-5266
2.396"	2.692"	TBC-2396	5.516"	5.812"	TBC-5516
2.516"	2.812"	TBC-2516	5.766"	6.062"	TBC-5766
2.646"	2.942"	TBC-2646	6.016"	6.312"	TBC-6016
2.766"	3.062"	TBC-2766	6.266"	6.562"	TBC-6266
2.886"	3.182"	TBC-2886	6.516"	6.812"	TBC-6516
3.016"	3.312"	TBC-3016	6.766"	7.062"	TBC-6766
3.266"	3.562"	TBC-3266	7.266"	7.562"	TBC-7266

WORM DRIVE CLIP

WORM DRIVE CLIP

When the screw is turned, it acts as a worm drive pulling the threads of the band, causing the band to tighten around the hose. Ideally suited for most day to day requirements for joining hose in areas such as the automotive industry and the automotive aftermarket, agricultural applications, such as irrigation and farm machinery, pneumatic and hydraulic applications in the industrial sector, hardware/DIY applications and in construction.

Style HS material:

- band and housing: SAE 201/301 series stainless
- screw: SAE 1018 case-hardened steel, zinc plated and chromate dipped

Style HSS material:

- band and housing: SAE 201/301 series stainless
- screw: SAE 300 series stainless



BAND WIDTH	HOSE OD INC.				HS MATERIAL PRODUCT CODE	HHS MATERIAL PRODUCT CODE
	FROM		TO			
	mm	inch	mm	inch		
1/2" (12.7mm)	11	28/64"	20	50/64"	GWD20HS	GWD20HSS
	13	32/64"	23	58/64"	GWD23HS	GWD23HSS
	14	36/64"	27	1-4/64"	GWD27HS	GWD27HSS
	17	44/64"	32	1-16/64"	GWD32HS	GWD32HSS
	21	52/64"	38	1-32/64"	GWD38HS	GWD38HSS
	21	52/64"	44	1-48/64"	GWD44HS	GWD44HSS
	27	1-4/64"	51	2"	GWD51HS	GWD51HSS
	33	1-20/64"	57	2-16/64"	GWD57HS	GWD57HSS
		1-36/64"	64	2-32/64"	GWD64HS	GWD64HSS
		1-52/64"	70	2-48/64"	GWD70HS	GWD70HSS
		2-4/64"	76	3"	GWD76HS	GWD76HSS
		2-20/64"	83	3-16/64"	GWD83HS	GWD83HSS
		2-36/64"	89	3-32/64"	GWD89HS	GWD89HSS
		2-52/64"	95	3-48/64"	GWD95HS	GWD95HSS
9/16" (14.3mm)		3-4/64"	102	4"	GWD102HS	GWD102HSS
		3-20/64"	108	4-16/64"	GWD108HS	GWD108HSS
		3-36/64"	114	4-32/64"	GWD114HS	GWD114HSS
		1-56/64"	127	5"	GWD127HS	GWD127HSS
		2-32/64"	140	5-32/64"	GWD140HS	GWD140HSS
		3-8/64"	152	6"	GWD152HS	GWD152HSS
		3-40/64"	165	6-32/64"	GWD165HS	GWD165HSS
		4-8/64"	178	7"	GWD178HS	GWD178HSS
		5-40/64"	216	8-32/64"	GWD216HS	GWD216HSS
		7-8/64"	254	10"	GWD254HS	GWD254HSS
		9-24/64"	311	12-16/64"	GWD311HS	GWD311HSS
		10-8/64"	330	13"	GWD330HS	GWD330HSS
		10-56/64"	349	13-48/64"	GWD349HS	GWD349HSS
		11-40/64"	368	14-32/64"	GWD368HS	GWD368HSS
		12-24/64"	387	15-16/64"	GWD387HS	GWD387HSS
		13-8/64"	406	16"	GWD406HS	GWD406HSS
	17-8/64"	508	20"	GWD508HS	GWD508HSS	

PIPE RETAINING CLIP

PIPE RETAINING CLIP

The pipe retaining clips are suitable for securing pipes, cables harnesses, cable protection pipes, hoses and cables. They are used in almost all sectors of industry, e.g. in the automotive industry, mechanical and application engineering, hydraulics and pneumatics, measurement and control engineering and the chemical, shipbuilding, electrical and food processing industries.

BAND WIDTH	PRODUCT CODE	CLAMPING RANGE	
		mm	Inches
12	GPRC-5	5	3/16
12	GPRC-6	6	1/4
12	GPRC-7	7	5/16
12	GPRC-8	8	5/16
12	GPRC-9	9	3/8
12	GPRC-10	10	3/8
12	GPRC-11	11	7/16
12	GPRC-12	12	1/2
12	GPRC-13	13	1/2
12	GPRC-14	14	9/16
12	GPRC-15	15	5/8
12	GPRC-16	16	5/8
12	GPRC-17	17	11/16
12	GPRC-18	18	3/4
12	GPRC-19	19	3/4
12	GPRC-20	20	13/16
12	GPRC-21	21	13/16
12	GPRC-22	22	7/8
12	GPRC-23	23	7/8
12	GPRC-24	24	15/16
12	GPRC-25	25	1
12	GPRC-27	26	1 1/16
12	GPRC-27	27	1 1/16
12	GPRC-28	28	1 1/8
12	GPRC-29	29	1 1/8
12	GPRC-30	30	1 3/16
12	GPRC-31	31	1 1/4
12	GPRC-32	32	1 1/4
12	GPRC-33	33	1 5/16
12	GPRC-34	34	1 5/16
12	GPRC-35	35	1 3/8
12	GPRC-36	36	1 7/16
12	GPRC-37	37	1 7/16
12	GPRC-38	38	1 1/2
12	GPRC-39	39	1 9/16
12	GPRC-40	40	1 9/16
12	GPRC-41	41	1 5/8
12	GPRC-42	42	1 5/8
12	GPRC-43	43	1 11/16
12	GPRC-44	44	1 3/4
12	GPRC-45	45	1 3/4



PIPE RETAINING CLIP

PRESSURE GAUGE

2-1/2" DIAL FACE PRESSURE GAUGE

C2SB Series is a special design with stainless steel case and copper alloy wetted part and fillable option for extreme vibration application and non-corrosive ambient field condition, with crimped lock case design. Applicable for pneumatic and hydraulic systems, compressors, engines, pumps, sprinkles system, building automation system and processing unit where vibration is concern.

FEATURES

- Accuracy class 1.6, class 1.0
- Wide range vibration application
- Stainless steel case design
- Knock-down system back and front flange
- Crimped lock case design
- Over pressure up to 30% of Full scale
- Restrictor screw standard
- Excellent vibration resist with liquid filling
- Design scale ranges up to 1000 bar

TECHNICAL SPECIFICATION

Nominal Size : 63, 100 and 150mm

Accuracy Class : Class 1.6, Class 1.0 [$\phi > 100\text{mm}$]

Ingress Protection : IP65 (Weather tight)

Connection Size : G1/4, G1/2 or NPT

Filling : Dry or liquid filled

Scale Range

- Pressure 0..1000 bar
- Vacuum - 1 bar..0
- Compound -1..24

Tube Element Shape

- P \leq 100bar in C Tube
- P $>$ 100 bar in helicoil



PRESSURE GAUGE

Operating Temperature

- Ambient temperature -10°C.. + 70°C
- Medium temperature 90°C Max

Temperature Error

- Additional error when pressure element temperature deviates from reference temperature +20°C (+68°F) be $\pm 0.4\%$ / 10°C (50°F) rising or falling

Over Pressure Limit

- 130% of F.S.P \geq 100 Bar
- 115% of F.S.P $>$ 100 Bar

Dial Graduation

- Black graduation on white for single range
- Black and red graduation on white for dual ranges



PRESSURE GAUGE

PRESSURE GAUGE <> 2-1/2" DIAL FACE

PRESSURE RANGE		MOUNTING							
MIN - MAX		NPT BOTTOM		NPT BACK MOUNTED		BSP BOTTOM		BSP BACK MOUNTED	
PSI	Kg/cm2	PRODUCT CODE	LIST PRICE [USD]	PRODUCT CODE	LIST PRICE [USD]	PRODUCT CODE	LIST PRICE [USD]	PRODUCT CODE	LIST PRICE [USD]
0.76mmHg - 4kg Comp		PG-PM4KG	25.96	PG-PK4KG	27.26	PG-BM4KG	27.26	PG-BK4KG	27.26
0.76mmHg - 7kg Comp	0 - 1.6	PG-PM7KG	25.96	PG-PK7KG	27.26	PG-BM7KG	27.26	PG-BK7KG	27.26
0.76mmHg - 10kg Comp	0 - 2.5	PG-PM10KG	25.96	PG-PK10KG	27.26	PG-BM10KG	27.26	PG-BK10KG	27.26
0.76mmHg - 30" Hg Vac	0 - 4.2	PG-PM30HG	25.96	PG-PK30HG	27.26	PG-BM30HG	27.26	PG-BK30HG	27.26
0 - 14	0 - 1	PG-PM014	25.96	PG-PK014	27.26	PG-BM014	27.26	PG-BK014	27.26
0 - 23	0 - 1.6	PG-PM023	25.96	PG-PK023	27.26	PG-BM023	27.26	PG-BK023	27.26
0 - 35	0 - 2.5	PG-PM035	25.96	PG-PK035	27.26	PG-BM035	27.26	PG-BK035	27.26
0 - 60	0 - 4.2	PG-PM060	25.96	PG-PK060	27.26	PG-BM060	27.26	PG-BK060	27.26
0 - 85	0 - 6	PG-PM085	25.96	PG-PK085	27.26	PG-BM085	27.26	PG-BK085	27.26
0 - 100	0 - 7	PG-PM100	25.96	PG-PK100	27.26	PG-BM100	27.26	PG-BK100	27.26
0 - 140	0 - 10	PG-PM140	25.96	PG-PK140	27.26	PG-BM140	27.26	PG-BK140	27.26
0 - 170	0 - 12	PG-PM170	25.96	PG-PK170	27.26	PG-BM170	27.26	PG-BK170	27.26
0 - 200	0 - 14	PG-PM200	25.96	PG-PK200	27.26	PG-BM200	27.26	PG-BK200	27.26
0 - 230	0 - 16	PG-PM230	26.39	PG-PK230	27.69	PG-BM230	27.69	PG-BK230	27.69
0 - 300	0 - 21	PG-PM300	26.39	PG-PK300	27.69	PG-BM300	27.69	PG-BK300	27.69
0 - 350	0 - 25	PG-PM350	26.39	PG-PK350	27.69	PG-BM350	27.69	PG-BK350	27.69
0 - 400	0 - 30	PG-PM400	26.39	PG-PK400	27.69	PG-BM400	27.69	PG-BK400	27.69
0 - 500	0 - 35	PG-PM500	26.39	PG-PK500	27.69	PG-BM500	27.69	PG-BK500	27.69
0 - 600	0 - 42	PG-PM600	26.39	PG-PK600	27.69	PG-BM600	27.69	PG-BK600	27.69
0 - 850	0 - 60	PG-PM850	26.39	PG-PK850	27.69	PG-BM850	27.69	PG-BK850	27.69
0 - 1000	0 - 70	PG-PM1K0	26.39	PG-PK1K0	27.69	PG-BM1K0	27.69	PG-BK1K0	27.69
0 - 1400	0 - 100	PG-PM1K4	26.82	PG-PK1K4	28.12	PG-BM1K4	28.12	PG-BK1K4	28.12
0 - 2000	0 - 140	PG-PM2K0	26.82	PG-PK2K0	28.12	PG-BM2K0	28.12	PG-BK2K0	28.12
0 - 2300	0 - 160	PG-PM2K3	26.82	PG-PK2K3	28.12	PG-BM2K3	28.12	PG-BK2K3	28.12
0 - 3000	0 - 210	PG-PM3K0	26.82	PG-PK3K0	28.12	PG-BM3K0	28.12	PG-BK3K0	28.12
0 - 3500	0 - 250	PG-PM3K5	26.82	PG-PK3K5	28.12	PG-BM3K5	28.12	PG-BK3K5	28.12
0 - 4000	0 - 300	PG-PM4K0	26.82	PG-PK4K0	28.12	PG-BM4K0	28.12	PG-BK4K0	28.12
0 - 5000	0 - 350	PG-PM5K0	26.82	PG-PK5K0	28.12	PG-BM5K0	28.12	PG-BK5K0	28.12
0 - 6000	0 - 420	PG-PM6K0	28.56	PG-PK6K0	30.29	PG-BM6K0	30.29	PG-BK6K0	30.29
0 - 8500	0 - 600	PG-PM8K5	28.56	PG-PK8K5	30.29	PG-BM8K5	30.29	PG-BK8K5	30.29
0 - 10000	0 - 700	PG-PM10K	28.56	PG-PK10K	30.29	PG-BM10K	30.29	PG-BK10K	30.29
0 - 14500	0 - 1000	PG-PM14K5	28.56	PG-PK14K5	30.29	PG-BM14K5	30.29	PG-BK14K5	30.29

DESIGN MATERIAL

Casing and Bezel Ring Stainless Steel 304

- Sensing Element Copper alloy

Connection Brass

- Window Tempered glass [C1SB Series]
- Plastic [C2SB Series]

Window Gasket

- Industrial rubber seal

Pointer

- Black painted aluminum

Dial Plate

- Aluminum alloy

PRESSURE GAUGE <> ACCESSORIES

ACCESSORIES	PRODUCT CODE	LIST PRICE [USD]
FRONT CLAMP	PG-FC-ACC	1.73
CLAMP BRACKET	PG-CB-ACC	1.30
BACK FLANGE	PG-BFL-ACC	1.73

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.

BALL VALVE

BALL VALVE <> BRASS TYPE (LOW PRESSURE)

The Gates bronze ball valve provides ease of operation with quarter-turn (90 degrees) open to close. The two-piece valve features threaded end connections for easy installation. The valve is ideal for hot/cold water and gas applications.

Note: Brass ball valves without locking slide handle



LOW PRESSURE
BRASS BALL

HOSE SIZE RANGE (INSIDE DIAMETER)	NPT BRASS PART NUMBER	PSI	BSP BRASS CHROME PART NUMBER	PRES. (PSI)	STEAM PRES. (PSI)
1/4"	4BV-NPT-BR	365	NOT AVAILABLE	900	-
3/8"	6BV-NPT-BR	365	NOT AVAILABLE	900	-
1/2"	8BV-NPT-BR	600	8BV-BSP-BRC	900	150
3/4"	12BV-NPT-BR	600	12BV-BSP-BRC	900	150
1"	16BV-NPT-BR	600	16BV-BSP-BRC	900	-
1-1/4"	20BV-NPT-BR	600	20BV-BSP-BRC	900	150
1-1/2"	24BV-NPT-BR	600	24BV-BSP-BRC	900	150
2"	32BV-NPT-BR	600	32BV-BSP-BRC	900	150
3"	48BV-NPT-BR	-	NOT AVAILABLE	-	-
4"	64BV-NPT-BR	-	NOT AVAILABLE	-	-

BALL VALVE <> MINI TYPE (W.P 220 PSI)

A simple quarter turn of the die cast handle allows the user to open and close the valve. Reduced bore configuration with hot stamped brass body and ball heavily chrome plated.

These miniature valves with mirror finish chrome plated body and neat solid plastic handle are ideal for domestic installations, exhibitions and showrooms.



MINI
BALL VALVE

HOSE SIZE RANGE (INSIDE DIAMETER)	BSPT F/F BRASS BUTTERFLY HANDLE [BRASS CHROME] PART NUMBER	PSI	BSPT F/M BRASS BUTTERFLY HANDLE [BRASS CHROME] PART NUMBER	PSI	BSPT F/F BRASS LEVER HANDLE [BRASS CHROME] PART NUMBER	PSI	BSPT F/M BRASS LEVER HANDLE [BRASS CHROME] PART NUMBER	PSI
1/4"	4BV-FFBFH-BRC	220	4BV-FMBFH-BRC	220	4BV-FFBH-BRC	220	4BV-FMLH-BRC	220
3/8"	6BV-FFBFH-BRC	220	6BV-FMBFH-BRC	220	6BV-FFBH-BRC	220	6BV-FMLH-BRC	220
1/2"	8BV-FFBFH-BRC	220	8BV-FMBFH-BRC	220	8BV-FFBH-BRC	220	8BV-FMLH-BRC	220
3/4"	12BV-FFBFH-BRC	220	12BV-FMBFH-BRC	220	12BV-FMLH-BRC	220	12BV-FMLH-BRC	220

BALL VALVE <> STAINLESS STEEL TYPE (LOW PRESSURE)



LOW PRESSURE STAINLESS STEEL
BALL VALVE

HOSE SIZE RANGE (INSIDE DIAMETER)	NPT WOG 1000 STAINLESS STEEL PART NUMBER	PRESS. (PSI) WOG	SAT. STEAM PRESS. (PSI)	BSP WOG 1000 STAINLESS STEEL PART NUMBER	PRESS. (PSI) WOG	SAT. STEAM PRESS. (PSI)
1/4"	4BV-NPTWOG1K-SS	1000	100	4BV-BSPWOG1K-SS	1000	100
3/8"	6BV-NPTWOG1K-SS	1000	100	6BV-BSPWOG1K-SS	1000	100
1/2"	8BV-NPTWOG1K-SS	1000	100	8BV-BSPWOG1K-SS	1000	100
3/4"	12BV-NPTWOG1K-SS	1000	100	12BV-BSPWOG1K-SS	1000	100
1"	16BV-NPTWOG1K-SS	1000	100	16BV-BSPWOG1K-SS	1000	100
1-1/4"	20BV-NPTWOG1K-SS	1000	100	20BV-BSPWOG1K-SS	1000	100
1-1/2"	24BV-NPTWOG1K-SS	1000	100	24BV-BSPWOG1K-SS	1000	100
2"	32BV-NPTWOG1K-SS	1000	100	32BV-BSPWOG1K-SS	1000	100

BALL VALVE

BALL VALVE <> 3-WAY STAINLESS STEEL BALL VALVE PORT (W.P 1,000 PSI)

Has a blow-out proof stem design with working pressure of 1000 PSI. Temperature range from -29°C to 150°C. Applicable to general oil, gas & water applications.



**HIGH PRESSURE
STAINLESS STEEL
BALL VALVE**

HOSE SIZE RANGE (INSIDE DIAMETER)	NPT SS316 3WAY BALL VALVE L PORT PART NUMBER	PSI	NPT SS316 3WAY BALL VALVE T PORT PART NUMBER	PSI	BSP SS316 3WAY BALL VALVE L PORT PART NUMBER	PSI	BSP SS316 3WAY BALL VALVE T PORT PART NUMBER	PSI
1/4"	4NPT3WL-SS	1,000	4NPT3WT-SS	1,000	4BSP3WL-SS	1,000	4BSP3WT-SS	1,000
3/8"	6NPT3WL-SS	1,000	6NPT3WT-SS	1,000	6BSP3WL-SS	1,000	6BSP3WT-SS	1,000
1/2"	8NPT3WL-SS	1,000	8NPT3WT-SS	1,000	8BSP3WL-SS	1,000	8BSP3WT-SS	1,000
3/4"	12NPT3WL-SS	1,000	12NPT3WT-SS	1,000	12BSP3WL-SS	1,000	12BSP3WT-SS	1,000
1"	16NPT3WL-SS	1,000	16NPT3WT-SS	1,000	16BSP3WL-SS	1,000	16BSP3WT-SS	1,000

BALL VALVE <> STAINLESS STEEL (HIGH PRESSURE)



**HIGH PRESSURE
STAINLESS STEEL
BALL VALVE**



**HIGH PRESSURE
STAINLESS STEEL
FLANGE END BALL VALVE**

HOSE SIZE RANGE (INSIDE DIAMETER)	NPT SS316 HP PART NUMBER	PSI	BSP SS316 HP PART NUMBER	PSI	SAE FLANGE END 3K SS316 HP PART NUMBER	PSI	SAE FLANGE END 6K SS316 HP PART NUMBER	PSI
1/4"	4BV-NPT-SS	5,500	4BV-BSP-SS	7,000	4BV-SAEFL3K-SS	3,000	4BV-SAEFL6K-SS	6,000
3/8"	6BV-NPT-SS	5,500	6BV-BSP-SS	7,000	6BV-SAEFL3K-SS	3,000	6BV-SAEFL6K-SS	6,000
1/2"	8BV-NPT-SS	5,500	8BV-BSP-SS	7,000	8BV-SAEFL3K-SS	3,000	8BV-SAEFL6K-SS	6,000
3/4"	12BV-NPT-SS	5,000	12BV-BSP-SS	4,500	12BV-SAEFL3K-SS	3,000	12BV-SAEFL6K-SS	6,000
1"	16BV-NPT-SS	5,000	16BV-BSP-SS	4,500	16BV-SAEFL3K-SS	3,000	16BV-SAEFL6K-SS	6,000
1-1/4"	20BV-NPT-SS	-	20BV-BSP-SS	4,500	20BV-SAEFL3K-SS	3,000	20BV-SAEFL6K-SS	6,000
1-1/2"	24BV-NPT-SS	-	24BV-BSP-SS	-	24BV-SAEFL3K-SS	3,000	24BV-SAEFL6K-SS	6,000
2"	32BV-NPT-SS	-	32BV-BSP-SS	-	32BV-SAEFL3K-SS	3,000	32BV-SAEFL6K-SS	6,000

CHECK VALVE <> BRASS TYPE (LOW PRESSURE)

Maintains a bubble tight seal, spring loaded for fast seating action. The contour of body provides a short and straight flow path that generates very little turbulence. Applicable to oil and gas production, petrochemical industry, pump & compressor discharge.

HOSE SIZE RANGE (INSIDE DIAMETER)	NPT THREADED SPRING LOADED PART NUMBER	PSI	BSPT THREADED SPRING LOADED PART NUMBER	PSI	NPT THREADED SWING PART NUMBER	PSI	BSPT THREADED SWING PART NUMBER	PSI
1/4"	4CV-NPTTS-BR	400	4CV-BSPTTS-BR	200	4CV-NPTTS-BR	200	4CV-BSPTTS-BR	200
3/8"	6CV-NPTTS-BR	400	6CV-BSPTTS-BR	200	6CV-NPTTS-BR	200	6CV-BSPTTS-BR	200
1/2"	8CV-NPTTS-BR	400	8CV-BSPTTS-BR	200	8CV-NPTTS-BR	200	8CV-BSPTTS-BR	200
3/4"	12CV-NPTTS-BR	400	12CV-BSPTTS-BR	200	12CV-NPTTS-BR	200	12CV-BSPTTS-BR	200
1"	16CV-NPTTS-BR	400	16CV-BSPTTS-BR	200	16CV-NPTTS-BR	200	16CV-BSPTTS-BR	200
1-1/4"	20CV-NPTTS-BR	400	20CV-BSPTTS-BR	200	20CV-NPTTS-BR	200	20CV-BSPTTS-BR	200
1-1/2"	24CV-NPTTS-BR	400	24CV-BSPTTS-BR	200	24CV-NPTTS-BR	200	24CV-BSPTTS-BR	200
2"	32CV-NPTTS-BR	400	32CV-BSPTTS-BR	200	32CV-NPTTS-BR	200	32CV-BSPTTS-BR	200
3"	not available	-	not available	-	48CV-NPTTS-BR	200	48CV-BSPTTS-BR	200
4"	not available	-	not available	-	64CV-NPTTS-BR	200	64CV-BSPTTS-BR	200

TUBING

TUBING <> CARBON STEEL

The phosphate-coated steel tube is typically used in general hydraulic applications where exposure to a corrosive environment is not a major concern or where the tube lines are painted after installation. Once oil is washed away from the surface, the phosphate coating serves as a good base for paint adhesion.

The zinc-plated steel tube is typically used in situations where more corrosion protection is required, but without the need for painting. The stainless steel tube is used in applications where severe corrosives may be present.



SIZE	PHOSPHATED & OILED PRODUCT CODE	ZINC PLATED & YELLOW CHROMATE PART NO. PART NUMBER	SIZE	PHOSPHATED & OILED PRODUCT CODE	ZINC PLATED & YELLOW CHROMATE PART NO. PART NUMBER
6 x 1	GR06X1	GR06X1VZ	22 x 2.5	GR22X2.5	GR22X2.5VZ
6 x 1.5	GR06X1.5	GR06X1.5VZ	22 x 3	GR22X3	GR22X3VZ
8 x 1	GR08X1	GR08X1VZ	25 x 2.5	GR25X2.5	GR25X2.5VZ
8 x 1.5	GR08X1.5	GR08X1.5VZ	25 x 3	GR25X3	GR25X3VZ
10 x 1	GR10X1	GR10X1VZ	25 x 4	GR25X4	GR25X4VZ
10 x 1.5	GR10X1.5	GR10X1.5VZ	28 x 2	GR28X2	GR28X2VZ
10 x 2	GR10X2	GR10X2VZ	28 x 2.5	GR28X2.5	GR28X2.5VZ
12 x 1	GR12X1	GR12X1VZ	28 x 3	GR28X3	GR28X3VZ
12 x 1.5	GR12X1.5	GR12X1.5VZ	30 x 3	GR30X3	GR30X3VZ
12 x 2	GR12X2	GR12X2VZ	30 x 4	GR30X4	GR30X4VZ
14 x 2	GR14X2	GR14X2VZ	35 x 3	GR35X3	GR35X3VZ
15 x 1.5	GR15X1.5	GR15X1.5VZ	35 x 4	GR35X4	GR35X4VZ
15 x 2	GR15X2	GR15X2VZ	35 x 5	GR35X5	GR35X5VZ
16 x 1.5	GR16X1.5	GR16X1.5VZ	38 x 3	GR38X3	GR38X3VZ
16 x 2	GR16X2	GR16X2VZ	38 x 4	GR38X4	GR38X4VZ
16 x 2.5	GR16X2.5	GR16X2.5VZ	38 x 5	GR38X5	GR38X5VZ
16 x 3	GR16X3	GR16X3VZ	42 x 3	GR42X3	GR42X3VZ
18 x 1.5	GR18X1.5	GR18X1.5VZ	42 x 4	GR42X4	GR42X4VZ
18 x 2	GR18X2	GR18X2VZ	42 x 5	GR42X5	GR42X5VZ
20 x 2	GR20X2	GR20X2VZ	50 x 5	GR50X5	GR50X5VZ
20 x 2.5	GR20X2.5	GR20X2.5VZ	50 x 6	GR50X6	GR50X6VZ
20 x 3	GR20X3	GR20X3VZ	65 x 8	GR65X8	GR65X8VZ
20 x 4	GR20X4	GR20X4VZ	80 x 10	GR80X10	GR80X10VZ
22 x 2	GR22X2	GR22X2VZ			

TUBING

TUBING <> STAINLESS STEEL

The phosphate-coated steel tube is typically used in general hydraulic applications where exposure to a corrosive environment is not a major concern or where the tube lines are painted after installation. Once oil is washed away from the surface, the phosphate coating serves as a good base for paint adhesion.

The zinc-plated steel tube is typically used in situations where more corrosion protection is required, but without the need for painting.

The stainless steel tube is used in applications where severe corrosives may be present.



SIZE	SS316 TUBING ASTM A269/ A213 TP316/316L PRODUCT CODE	SIZE	SS316 TUBING ASTM A269/A213 TP316/316L PRODUCT CODE
6 x 1	TB-6 x 1-SS	30 x 4	TB-30 x 4-SS
8 x 1	TB-8 x 1-SS	32 x 1.5	TB-32 x 1.5-SS
10 x 1	TB-10 x 1-SS	35 x 2	TB-35 x 2-SS
10 x 1.5	TB-10 x 1.5-SS	35 x 3	TB-35 x 3-SS
12 x 1	TB-12 x 1-SS	38 x 3	TB-38 x 3-SS
12 x 1.5	TB-12 x 1.5-SS	38 x 4	TB-38 x 4-SS
15 x 1.5	TB-15 x 1.5-SS	38 x 4.5	TB-38 x 4.5-SS
15 x 2	TB-15 x 2-SS	38 x 5	TB-38 x 5-SS
16 x 1.5	TB-16 x 1.5-SS	42 x 3	TB-42 x 3-SS
16 x 2	TB-16 x 2-SS	42 x 4	TB-42 x 4-SS
18 x 1.5	TB-18 x 1.5-SS	6.35 x 0.89	TB-6.35 x 0.89-SS
18 x 2	TB-18 x 2-SS	6.35 x 1.24	TB-6.35 x 1.24-SS
20 x 1.5	TB-20 x 1.5-SS	9.53 x 0.89	TB-9.53 x 0.89-SS
20 x 2	TB-20 x 2-SS	9.53 x 1.24	TB-9.53 x 1.24-SS
22 x 1.5	TB-22 x 1.5-SS	12.7 x 0.89	TB-12.7 x 0.89-SS
22 x 2	TB-22 x 2-SS	12.7 x 1.24	TB-12.7 x 1.24-SS
25 x 2	TB-25 x 2-SS	15.88 x 1.24	TB-15.88 x 1.24-SS
25 x 2.5	TB-25 x 2.5-SS	15.88 x 1.65	TB-15.88 x 1.65-SS
25 x 3	TB-25 x 3-SS	19.05 x 1.24	TB-19.05 x 1.24-SS
28 x 2	TB-28 x 2-SS	19.05 x 1.65	TB-19.05 x 1.65-SS
28 x 2.5	TB-28 x 2.5-SS	25.4 x 1.65	TB-25.4 x 1.65-SS
30 x 3	TB-30 x 3-SS	25.4 x 2.1	TB-25.4 x 2.1-SS

TUBING <> SS304/SS316 COIL TUBING

Applicable to hydraulic control lines and marine with seamless coil tubing, oilfield coil tubings, liquid/gas transportation.

TYPE	SIZE
SS304/SS316 Coil Tubing	Size: 1-1/16" to 1" Length: Up to 500mtr



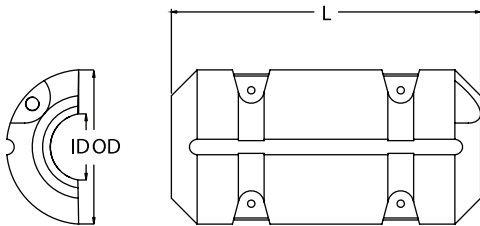
PVC TUBE MASTER

FLOATATION COLLAR <> DESIGNED TO HAVE LESS DRAG & EASY INSTALLATION

FEATURES

- Shaped float end ensures less drag and streamline profile reduces risk of entanglement.
 - Made in two sections that can be either bolted or strapped together around the hose or pipe.
 - Adaptable internal urethane spacers that suit hose /pipe diameters from 10mm to 13mm
 - Stainless steel nuts, bolts and washers.
 - High impact and UV resistant polyethylene
 - Floats have the option of polyurethane form filling
 - Capacity is based on fully submerged float.
- Internal spacer discs designed for the FL3010 floatation collar float. These discs can be easily machined to suit actual pipe sizing while offering a supportitve cradle clamp to the hose or pipe.

Gates Code	Foam Filled	Description	Inside Diameter [mm]	Outside Diameter x Length [mm]	Capacity Ltr.	Unit Kg.
GFL3010	NO	FLOATATION COLLAR	10 - 130	300 X 600	22	4
GFL3020	NO	FLOATATION COLLAR	190	610 X 1100	270	25



PVC TUBE MASTER

PVC TUBE MASTER<> PU TUBE (ROLL TYPE)

Length: 200m, 100m

Material: PU

Product Color Code: Blue [B], Orange [O], Black [A], Yellow [Y], Transparent [T], Transparent Blue [TB]

Example: 80M100PU-B, Blue Cover

SIZE (MM)		PRODUCT CODE	COLOUR	TRANSPARENT	STANDARD LENGTH (M)
OD	ID		LIST PRICE (US\$)	LIST PRICE (US\$)	
4	2.5	25M40PU-X	58.06	60.70	200
6	4	40M60PU-X	99.34	104.10	200
8	5	50M80PU-X	86.36	91.12	100
8	5.5	55M80PU-X	81.99	86.75	100
8	6	60M80PU-X	77.75	82.38	100
10	6.5	65M100PU-X	146.76	156.19	100
10	7.5	75M100PU-X	138.15	147.45	100
10	8	80M100PU-X	120.93	125.77	100
12	8	80M120PU-X	189.98	199.54	100
12	9	90M120PU-X	172.67	182.19	100
16	12	120M160PU-X	284.95	303.68	100
16	13	130M160PU-X	258.99	277.63	100
14	10	100M140PU-X	258.99	277.63	100
SIZE (INCH)		PRODUCT CODE	COLOUR	TRANSPARENT	STANDARD LENGTH (M)
OD	ID		LIST PRICE (US\$)	LIST PRICE (US\$)	
1/8"		D20PU-X	62.39	68.92	200
5/32"		D25PU-X	67.19	74.24	200
3/16"		D30PU-X	76.75	84.80	200
1/4"		D40PU-X	105.57	116.69	200
5/16"		D50PU-X	91.12	100.76	100
3/8"		D60PU-X	143.94	159.04	100
1/2"		D80PU-X	191.88	212.09	100



PVC TUBE MASTER <> PU SPRING TUBE

PU Spring Type

Length: 15m, 12m, 9m, 7.5m, 6m

Color: Blue Orange. Red, Black, Transparent, Yellow

SIZE (MM)		PRODUCT CODE	LENGTH <10M	LENGTH >10M	STANDARD LENGTH (M)
OD	ID		LIST PRICE (US\$/M)	LIST PRICE (US\$/M)	
6	4	40M60PUS-X	0.71	0.76	-
8	5	50M80PUS-X	0.98	1.07	-
8	5.5	55M80PUS-X	0.93	1.03	-
8	6	60M80PUS-X	0.89	0.98	-
10	6.5	65M100PUS-X	1.65	1.74	-
10	7.5	75M100PUS-X	1.47	1.56	-
10	8	80M100PUS-X	1.43	1.47	-
12	8	80M120PUS-X	2.18	2.27	-
12	9	90M120PUS-X	2.01	2.09	-



PVC TUBE MASTER

PVC TUBE MASTER <> PA TUBE

Recommended For:

Air brake tube is designed for use with truck, trailer and other mobile airbrake and auxiliary systems. This lightweight, flexible and UV stabilized tube is highly resistant to abrasion, oil, grease and road salt.

Color: Black, Blue, Green, Orange, Red, Yellow

Temperature Range: -40°F to +200°F [-40°C to +93°C]

Packaging: Reels, Coils -50, -100

Meets or exceeds: D.O.T.F.M.V.S.S. 106 / S.A.E J844 Test requirements

Note: 1/8 does not comply with F.M.V.S.S. 106

Notes: S.A.E does not recognize 5/32 O.D. for air brake systems



SIZE (MM)		PA6 [BLACK]		PA12 [COLOUR]		PA12 [WHITE]		STANDARD LENGTH (M)
OD	ID	PRODUCT CODE	LIST PRICE [US\$/M]	PRODUCT CODE	LIST PRICE [US\$/M]	PRODUCT CODE	LIST PRICE [US\$/M]	
3	1.5	30M15PA12A	0.33	30M15PA6C	0.44	30M15PA6W	0.48	200
4	2.5	40M25PA12A	0.35	40M25PA6C	0.48	40M25PA6W	0.53	200
4	2	40M20PA12A	0.35	40M20PA6C	0.48	40M20PA6W	0.53	200
5	3.3	50M33PA12A	0.44	50M33PA6C	0.53	50M33PA6W	0.57	100
6	3	60M30PA12A	0.68	60M30PA6C	0.75	60M30PA6W	0.84	100
6	4	60M40PA12A	0.51	60M40PA6C	0.57	60M40PA6W	0.63	100
7	5	70M50PA12A	0.61	70M50PA6C	0.71	70M50PA6W	0.77	100
7.5	3.5	75M35PA12A	0.99	75M35PA6C	1.14	75M35PA6W	1.28	100
8	4.4	80M44PA12A	1.38	80M44PA6C	1.41	80M44PA6W	1.55	100
8	5.5	80M55PA12A	0.92	80M55PA6C	1.08	80M55PA6W	1.19	100
8	6	80M60PA12A	0.71	80M60PA6C	0.88	80M60PA6W	0.97	100
9	6	90M60PA12A	1.16	90M60PA6C	1.28	90M60PA6W	1.41	100
9.5	6	95M60PA12A	1.36	95M60PA6C	1.63	95M60PA6W	1.80	100
9.5	7	95M70PA12A	1.39	95M70PA6C	1.58	95M70PA6W	1.71	100
10	7	100M70PA12A	1.41	100M70PA6C	1.61	100M70PA6W	1.79	100
10	7	100M70PA12A	1.07	100M70PA6C	1.38	100M70PA6W	1.50	100
10	8	100M80PA12A	0.88	100M80PA6C	1.06	100M80PA6W	1.19	100
11	8	110M80PA12A	1.45	110M80PA6C	1.50	110M80PA6W	1.63	100
11	9	110M90PA12A	1.01	110M90PA6C	1.17	110M90PA6W	1.28	100
12	7.9	120M79PA12A	2.15	120M79PA6C	2.38	120M79PA6W	2.64	100
12	9	120M90PA12A	1.50	120M90PA6C	1.58	120M90PA6W	1.71	100
12.7	9	127M90PA12A	1.91	127M90PA6C	1.93	127M90PA6W	2.11	100
12	10	120M100PA12A	1.06	120M100PA6C	1.23	120M100PA6W	1.36	100
14	10	140M100PA12A	2.46	140M100PA6C	2.84	140M100PA6W	3.03	100
15	12	150M120PA12A	2.03	150M120PA6C	2.35	150M120PA6W	2.55	100
16	12	160M120PA12A	3.03	160M120PA6C	2.33	160M120PA6W	3.52	100
18	14	180M140PA12A	4.57	180M140PA6C	4.84	180M140PA6W	5.19	100

SIZE [INCH]		1-PLY [BLACK]		2-PLY [BLACK]		PA12 [WHITE]		STANDARD LENGTH (M)
OD	ID	PRODUCT CODE	LIST PRICE [US\$/M]	PRODUCT CODE	LIST PRICE [US\$/M]	PRODUCT CODE	LIST PRICE [US\$/M]	
1/4"	0.171	D40PA1A	0.68	D40PA2A	1.10	D40PA2C	1.28	100
3/8"	0.251	D60PA1A	1.41	D60PA2A	2.15	D60PA2C	2.46	100
1/2"	0.376	D80PA1A	2.18	D80PA2A	3.08	D80PA2C	3.39	100
5/8"	0.441	D100PA1A	3.30	D100PA2A	5.01	D100PA2C	5.50	100

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PVC TUBE MASTER

PVC TUBE MASTER <> RETRACTABLE AIR BRAKE COILS

Recommended For:

Pulling the coil inside out restores the spring set making the assembly like new

Color: Red, Blue

Temperature Range: -65°F to +200°F [-54°C to +93°C]

Packaging: As a Set of One Red and One Blue

Meets or exceeds: S.A.E J844 Test requirements



OD (MM)	ID (MM)	COIL - ID (CM)	NO. COIL	LAYER NUMBER	COLOR	END FITTING	SPRING	PRODUCT CODE	LIST PRICE (US\$)
12	9	8	22	1	Black	M16 x 1.5	Attached	22ABH1-M16A	16.18
12	9	8	22	1	Black	M22 X 1.5	Attached	22ABH1-M22A	16.18
12	9	8	19	1	Black	M16 x 1.5	Attached	19ABH1-M16A	14.88
12	9	8	19	1	Black	M22 X 1.5	Attached	19ABH1-M22A	14.88
12	9	8	22	1	Colour	M16 x 1.5	Attached	22ABH1-M16C	17.87
12	9	8	22	1	Colour	M22 X 1.5	Attached	22ABH1-M22C	17.87
12	9	8	19	1	Colour	M16 x 1.5	Attached	19ABH1-M16C	16.18
12	9	8	19	1	Colour	M22 X 1.5	Attached	19ABH1-M22C	16.18
12	9	8	22	2	Black	M16 x 1.5	Attached	22ABH2-M16A	21.29
12	9	8	22	2	Black	M22 X 1.5	Attached	22ABH2-M22A	21.29
12	9	8	19	2	Black	M16 x 1.5	Attached	19ABH2-M16A	19.12
12	9	8	19	2	Black	M22 X 1.5	Attached	19ABH2-M22A	19.12
12	9	8	22	2	Colour	M16 x 1.5	Attached	22ABH2-M16C	23.41
12	9	8	22	2	Colour	M22 X 1.5	Attached	22ABH2-M22C	23.41
12	9	8	19	2	Colour	M16 x 1.5	Attached	19ABH2-M16C	22.11
12	9	8	19	2	Colour	M22 X 1.5	Attached	19ABH2-M22C	22.11

PVC TUBE MASTER <> TUBE CUTTER

PRODUCT CODE	LIST PRICE (US\$)
PUCUT	4.54



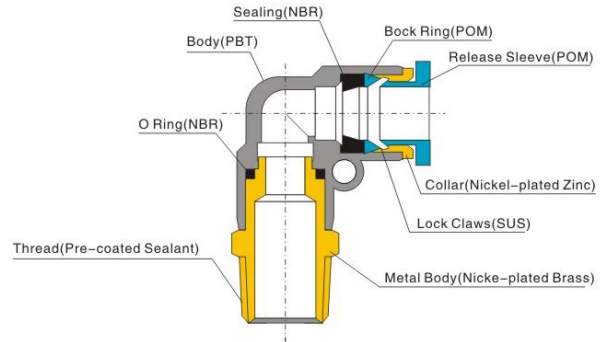
MATRIC PUSH-IN FITTINGS

MATRIC PUSH-IN FITTINGS

FEATURES

- One-touch tube fittings are used in pneumatic piping
- The tube fittings come in a wide variety of models to meet all your needs in pneumatic piping
- Even after installation, the direction of the tube can be changed freely
- Nickel-Plated Metal Body ensures anti-corrosion and anti-contamination
- All R and NPT threads are pre-coated sealant.

CONSTRUCTION



FLUID TYPE	AIR (NO OTHER TYPE OF GAS OR LIQUID)	
WORKING PRESSURE RANGE	0-150 PSI	0-9.9Kgf/cm ² [0-990Kpa]
NEGATIVE PRESSURE	-29.5 IN Hg	-750mm Hg [10 Torr]
WORKING TEMPERATURE	32-140°F	0-60°C



MODEL SIZE	TUBE OD (MM)	THREAD	LIST PRICE (US\$)								
			GC	GOC	GCF	GL	GLF	GTF	GLL	GB(GT)	GD (GST)
4-M5/M6	4	M5/M6	0.238	0.250	0.336	0.298	0.446	0.388	0.487	0.477	0.477
4-01	4	1/8"	0.245	0.257	0.459	0.308	0.487	0.584	0.487	0.482	0.482
4-02	4	1/4"	0.374	0.378	0.648	0.487	0.648	0.779	0.677	0.568	0.568
6-M5/M6	6	M5/M6	0.298	0.298	0.382	0.353	0.468	0.487	0.648	0.537	0.537
6-01	6	1/8"	0.298	0.298	0.487	0.378	0.496	0.584	0.542	0.549	0.549
6-02	6	1/4"	0.399	0.407	0.648	0.481	0.702	0.843	0.727	0.602	0.602
6-03	6	3/8"	0.542	0.542	0.975	0.631	1.000	1.199	0.944	0.780	0.780
6-04	6	1/2"	0.937	1.000	1.164	1.008	1.299	1.558	1.407	1.122	1.122
8-01	8	1/8"	0.378	0.378	0.487	0.510	0.568	0.683	0.798	0.617	0.617
8-02	8	1/4"	0.399	0.407	0.702	0.534	0.786	0.943	0.798	0.659	0.659
8-03	8	3/8"	0.534	0.542	0.975	0.705	1.055	1.267	1.040	0.823	0.823
8-04	8	1/2"	0.916	0.975	1.190	1.012	1.299	1.558	1.557	1.147	1.147
10-01	10	1/8"	0.577	0.596	0.757	0.644	0.786	0.943	1.350	0.891	0.891
10-02	10	1/4"	0.622	0.622	0.811	0.834	0.920	1.103	1.368	0.934	0.934
10-03	10	3/8"	0.622	0.622	1.135	0.834	1.190	1.427	1.290	0.934	0.934
10-04	10	1/2"	0.873	0.946	1.324	1.186	1.488	1.786	1.856	1.286	1.286
12-01	12	1/8"	0.834	0.866	1.081	1.101	1.299	1.558	2.216	1.286	1.286
12-02	12	1/4"	0.891	0.891	1.244	1.151	1.324	1.591	2.234	1.329	1.329
12-03	12	3/8"	0.873	0.891	1.135	1.169	1.353	1.623	2.077	1.329	1.329
12-04	12	1/2"	1.081	1.081	1.353	1.229	1.623	1.946	2.188	1.400	1.400
16-03	16	3/8"	1.623	1.623	2.165	1.954	2.434	2.921	3.784	2.458	2.458
16-04	16	1/2"	1.892	1.892	2.299	2.080	2.419	3.245	4.051	2.589	2.589

MATRIC PUSH-IN FITTINGS

MATRIC PUSH-IN FITTINGS



MODEL SIZE	TUBE OD (MM)	THREAD	LIST PRICE (US\$)								
			GX[GWT]	GH	GHF	GHL2	GHL3	GMF	GSC[NSE]	GKB	GA
4-M5/M6	4	M5/M6	0.238	0.250	0.336	0.298	0.446	0.388	0.487	0.477	0.477
4-01	4	1/8"	0.245	0.257	0.459	0.308	0.487	0.584	0.487	0.482	0.482
4-02	4	1/4"	0.374	0.378	0.648	0.487	0.648	0.779	0.677	0.568	0.568
6-M5/M6	6	M5/M6	0.298	0.298	0.382	0.353	0.468	0.487	0.648	0.537	0.537
6-01	6	1/8"	0.298	0.298	0.487	0.378	0.496	0.584	0.542	0.549	0.549
6-02	6	1/4"	0.399	0.407	0.648	0.481	0.702	0.843	0.727	0.602	0.602
6-03	6	3/8"	0.542	0.542	0.975	0.631	1.000	1.199	0.944	0.780	0.780
6-04	6	1/2"	0.937	1.000	1.164	1.008	1.299	1.558	1.407	1.122	1.122
8-01	8	1/8"	0.378	0.378	0.487	0.510	0.568	0.683	0.798	0.617	0.617
8-02	8	1/4"	0.399	0.407	0.702	0.534	0.786	0.943	0.798	0.659	0.659
8-03	8	3/8"	0.534	0.542	0.975	0.705	1.055	1.267	1.040	0.823	0.823
8-04	8	1/2"	0.916	0.975	1.190	1.012	1.299	1.558	1.557	1.147	1.147
10-01	10	1/8"	0.577	0.596	0.757	0.644	0.786	0.943	1.350	0.891	0.891
10-02	10	1/4"	0.622	0.622	0.811	0.834	0.920	1.103	1.368	0.934	0.934
10-03	10	3/8"	0.622	0.622	1.135	0.834	1.190	1.427	1.290	0.934	0.934
10-04	10	1/2"	0.873	0.946	1.324	1.186	1.488	1.786	1.856	1.286	1.286
12-01	12	1/8"	0.834	0.866	1.081	1.101	1.299	1.558	2.216	1.286	1.286
12-02	12	1/4"	0.891	0.891	1.244	1.151	1.324	1.591	2.234	1.329	1.329
12-03	12	3/8"	0.873	0.891	1.135	1.169	1.353	1.623	2.077	1.329	1.329
12-04	12	1/2"	1.081	1.081	1.353	1.229	1.623	1.946	2.188	1.400	1.400
16-03	16	3/8"	1.623	1.623	2.165	1.954	2.434	2.921	3.784	2.458	2.458
16-04	16	1/2"	1.892	1.892	2.299	2.080	2.419	3.245	4.051	2.589	2.589



MODEL SIZE	TUBE OD (MM)	LIST PRICE (US\$)									
		GU (GUC)	GV (GUL)	GE (GUT)	GY	GPF	GZ	GP	GK	GLM	GM
4	4	0.21	0.21	0.27	0.27	0.24	0.49	0.16	0.68	0.81	0.73
6	6	0.24	0.24	0.30	0.30	0.29	0.57	0.16	0.89	0.87	0.78
8	8	0.26	0.26	0.33	0.33	0.31	0.57	0.20	1.08	1.07	0.96
10	10	0.36	0.36	0.49	0.49	0.43	0.76	0.21	1.20	1.89	1.70
12	12	0.47	0.47	0.63	0.63	0.55	0.87	0.24	-	2.43	2.18
16	16	1.00	1.00	1.35	1.35	1.40	-	-	-	5.37	4.45



MODEL SIZE	TUBE OD (MM)	LIST PRICE (US\$)			
		GU (NSF)	GLJ	GYJ	GKJ
4	4	1.58	0.54	0.65	0.81
6	6	1.73	0.62	0.65	0.97
8	8	1.87	0.65	0.75	1.03
10	10	2.01	0.89	0.91	1.22
12	12	2.92	1.05	1.17	1.35
16	16	-	2.09	2.10	-

MODEL SIZE	TUBE OD (MM)	LIST PRICE (US\$)
		GKD
6-4-01	6 / 4 / 01	1.14
8-4-02	8 / 4 / 02	1.24
8-6-02	8 / 6 / 02	1.24
10-8-03	10 / 8 / 03	1.50

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MATRIC PUSH-IN FITTINGS / G THREAD FITTINGS WITH O-RING

MATRIC PUSH-IN FITTINGS



MODEL SIZE	TUBE OD (MM)	LIST PRICE (US\$)						
		GU[GG]	GEG/GEW	GY[GW]	GK[GKG]	GGJ	GYJ	GKJ
6-4	6/4	0.24	0.37	0.35	0.68	0.44	0.73	0.97
8-4	8/4	0.30	0.37	0.32	0.69	0.47	0.73	1.03
8-6	8/6	0.28	0.37	0.36	0.69	0.47	0.81	1.03
10-6	10/6	0.36	0.43	0.43	0.95	0.58	0.91	1.22
10-8	10/8	0.35	0.49	0.45	0.97	0.58	0.91	1.35
12-6	12/6	0.49	0.60	0.60	0.97	0.85	1.08	1.35
12-8	12/8	0.49	0.60	0.60	0.97	0.85	1.08	1.35
12-10	12/10	0.47	0.62	0.58	0.97	0.85	1.17	1.35

G THREAD FITTINGS WITH O-RING



MODEL SIZE	LIST PRICE (US\$)										
	GC-G	GOC-G	GCF-G	GL-G	GLF-G	GTF-G	GAPLL-G	GB-G [GT-G]	GD-G [GST-G]	GX-G [GWT-G]	GH-G
4-01	0.27	0.28	0.50	0.34	0.54	0.64	0.54	0.53	0.53	0.53	0.68
4-02	0.41	0.42	0.71	0.54	0.71	0.86	0.74	0.62	0.62	0.62	0.86
6-01	0.33	0.33	0.54	0.42	0.55	0.64	0.60	0.60	0.60	0.60	0.78
6-02	0.44	0.45	0.71	0.53	0.77	0.93	0.80	0.66	0.66	0.66	0.93
6-03	0.60	0.60	1.07	0.69	1.10	1.32	1.04	0.86	0.86	0.86	1.25
6-04	1.03	1.10	1.28	1.11	1.43	1.71	1.55	1.23	1.23	1.23	1.90
8-01	0.42	0.42	0.54	0.56	0.62	0.75	0.88	0.68	0.68	0.68	0.82
8-02	0.44	0.45	0.77	0.59	0.86	1.04	0.88	0.73	0.73	0.73	0.95
8-03	0.59	0.60	1.07	0.78	1.16	1.39	1.14	0.91	0.91	0.91	1.25
8-04	1.01	1.07	1.31	1.11	1.43	1.71	1.71	1.26	1.26	1.26	2.06
10-01	0.63	0.66	0.83	0.71	0.86	1.04	1.49	0.98	0.98	0.98	1.96
10-02	0.68	0.68	0.89	0.92	1.01	1.21	1.51	1.03	1.03	1.03	1.22
10-03	0.68	0.68	1.25	0.92	1.31	1.57	1.42	1.03	1.03	1.03	1.42
10-04	0.96	1.04	1.46	1.31	1.64	1.96	2.04	1.41	1.41	1.41	2.06
12-01	0.92	0.95	1.19	1.21	1.43	1.71	2.44	1.41	1.41	1.41	-
12-02	0.98	0.98	1.37	1.27	1.46	1.75	2.46	1.46	1.46	1.46	1.42
12-03	0.96	0.98	1.25	1.29	1.49	1.78	2.28	1.46	1.46	1.46	1.63
12-04	1.19	1.19	1.49	1.35	1.78	2.14	2.41	1.54	1.54	1.54	2.03
16-03	1.78	1.78	2.38	2.15	2.68	3.21	4.16	2.70	2.70	2.70	-
16-04	2.08	2.08	2.53	2.29	2.66	3.57	4.46	2.85	2.85	2.85	-

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G THREAD FITTINGS WITH O-RING

G THREAD FITTINGS WITH O-RING



MODEL SIZE	LIST PRICE [US\$]						
	GHF-G	GHL2-G	GHL3-G	GMF-G	GSC-G [NSE-G]	GKB-G	GA-G
4-01	0.80	1.49	2.14	0.66	1.22	1.25	1.19
4-02	1.07	1.78	2.86	0.89	1.39	1.25	2.02
6-01	0.85	1.49	2.32	0.74	1.29	1.25	1.49
6-02	1.03	1.78	2.86	1.13	1.42	1.43	2.02
6-03	1.46	2.02	4.46	1.34	2.23	1.43	2.68
6-04	2.32	2.97	5.35	1.43	3.57	1.49	4.34
8-01	0.89	1.52	2.32	0.89	1.29	1.25	1.55
8-02	1.10	2.08	2.86	1.22	1.49	1.43	2.02
8-03	1.49	2.97	4.46	1.34	2.38	1.43	2.74
8-04	2.38	4.76	5.35	1.49	3.57	1.49	4.34
10-01	0.83	1.64	2.32	1.22	1.55	1.43	1.55
10-02	1.32	2.32	2.86	1.78	1.70	1.43	2.14
10-03	1.60	3.21	4.46	1.84	2.32	1.43	2.74
10-04	2.56	5.00	5.35	1.87	3.57	1.49	4.34
12-01	-	-	-	1.78	-	-	-
12-02	1.47	2.50	3.21	1.93	1.78	-	2.14
12-03	1.74	3.21	4.64	1.99	2.41	-	2.74
12-04	2.59	4.31	4.64	2.20	3.57	-	4.40
16-03	-	-	-	-	-	-	-
16-04	2.08	2.08	2.53	2.29	2.66	3.57	4.46

MODEL SIZE	LIST PRICE [US\$]
	GKD-G
6-4-01	1.25
8-4-02	1.37
8-6-02	1.65
10-8-03	-



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HAND VALVE / MINI FITTING

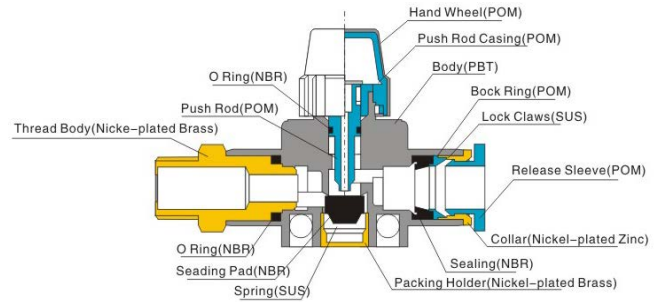
HAND VALVE

FEATURES

- The hand valves are designed to turn on and off the air flow
- Two-way and three-way valves are available for all models
- Three-way directional control valve releases the residual internal pressure on the Output side when manually closed

FLUID TYPE	AIR [NO OTHER TYPE OF GAS OR LIQUID]	
WORKING PRESSURE RANGE	0-150 PSI	0-9.9Kgf/cm ² [0-990Kpa]
NEGATIVE PRESSURE	-29.5 IN Hg	-750mm Hg [10 Torr]
WORKING TEMPERATURE	32-140°F	0-60°C

CONSTRUCTION



HAND VALVE



MODEL SIZE	LIST PRICE [US\$]				MODEL SIZE	LIST PRICE [US\$]		MODEL SIZE	LIST PRICE [US\$]
	GHVSF	GHVSF-G	GHVFS	GHVFS-G		GHVSS	GHVSS-G		GHVFF
6-01	2.60	2.86	2.60	2.86	01-01	2.57	2.83	6-6	2.52
6-02	2.67	2.93	2.67	2.93	02-01	2.75	3.02	8-6	2.52
6-03	2.74	3.02	2.74	3.02	02-02	2.82	3.10	8-8	2.52
8-01	2.60	2.86	2.60	2.86	02-03	2.92	3.21	10-08	3.61
8-02	2.67	2.93	2.67	2.93	03-03	2.99	3.29	10-10	3.61
8-03	2.74	3.02	2.74	3.02	04-03	3.09	3.40	12-10	3.61
10-01	3.75	4.13	3.75	4.13	04-04	3.16	3.47	12-12	3.61
10-02	3.90	4.29	3.90	4.29					
10-03	4.04	4.44	4.04	4.44					
10-04	4.33	4.76	4.33	4.76					
12-01	3.60	3.96	3.60	3.96					
12-02	3.90	4.29	3.90	4.29					
12-03	4.04	4.44	4.04	4.44					
12-04	4.33	4.76	4.33	4.76					

MINI FITTINGS

FEATURES

Ultra-small products, 40% smaller on volume compared with conventional models, 20% smaller on the dimensions. Is miniaturized Matric Push-In Fitting, because of chrome plated, The Anti-corrosion is prominent.



FLUID TYPE	AIR [NO OTHER TYPE OF GAS OR LIQUID]	
WORKING PRESSURE RANGE	0-150 PSI	0-9.9Kgf/cm ² [0-990Kpa]
NEGATIVE PRESSURE	-29.5 IN Hg	-750mm Hg [10 Torr]
WORKING TEMPERATURE	32-140°F	0-60°C

MODEL SIZE	LIST PRICE [US\$]		
	GC-C	GOC-C	GL-C
03	0.68	0.68	0.89
04	0.68	0.68	0.89
06	0.76	0.76	0.96

MINI FITTINGS / PNEUMATIC

MINI FITTINGS



MODEL SIZE	LIST PRICE (US\$)					
	GC-C	GOC-C	GL-C	GLL-C	GB-C (GT-C)	GD-C
03-M3	0.82	0.82	1.03	1.23	1.16	1.16
03-M5	0.82	0.82	1.03	1.23	1.16	1.16
04-M3	0.82	0.82	1.03	1.23	1.16	1.16
04-M5	0.82	0.82	1.03	1.23	1.16	1.16
04-M6	0.82	0.82	1.03	1.23	1.16	1.16
04-01	0.82	0.82	1.03	1.23	1.16	1.16
04-02	0.82	0.82	1.03	1.23	1.16	1.16
06-M3	0.89	0.89	1.09	1.30	1.37	1.37
06-M4	0.89	0.89	1.09	1.30	1.37	1.37
06-M5	0.89	0.89	1.09	1.30	1.37	1.37
06-01	0.89	0.89	1.09	1.30	1.37	1.37
06-02	0.89	0.89	1.09	1.30	1.37	1.37

PNEUMATIC



MODEL SIZE	LIST PRICE (US\$)	
	GL 45	GL 45-G
4-M5	0.58	-
4-M6	0.64	-
4-01	0.62	0.75
4-02	0.94	1.13
4-03	1.28	1.54
6-M5	0.73	-
6-M6	0.81	-
6-01	0.75	0.90
6-02	1.00	1.20
6-03	1.41	1.69
6-04	2.12	2.54
8-01	1.00	1.20
8-02	1.07	1.28
8-03	1.48	1.77
8-04	2.27	2.72
10-01	1.60	1.92
10-02	1.67	1.99
10-03	1.73	2.07
10-04	2.63	3.14
12-01	2.31	2.78
12-02	2.42	2.91
12-03	2.54	3.04
12-04	2.67	3.21

MODEL SIZE	LIST PRICE (US\$)	
	GISCA	GISCA- G
04-M5	1.60	-
04-01	1.72	2.05
06-M5	-	1.66
06-01	1.76	2.76
06-02	1.99	3.82
06-03	3.50	6.37
08-01	1.76	3.17
08-02	1.99	4.02
08-03	3.50	6.37
10-01	2.28	3.82
10-02	2.63	4.25
10-03	3.50	6.37
12-01	2.57	4.87
12-02	2.84	4.87
12-03	3.90	6.78

MODEL SIZE	LIST PRICE (US\$)	
	GISS (B)	GISS(B)-G
04-M5	3.11	-
06-M5	3.11	-
06-01	3.11	3.73
06-02	4.11	4.93
08-01	3.17	3.80
08-02	4.22	5.06
10-02	4.99	5.99
10-03	6.62	7.94
12-02	5.12	6.15
12-03	6.73	8.07

MODEL SIZE	LIST PRICE (US\$)	
	GXJ-5	GXG
04-04	1.88	0.00
06-04	2.37	1.11
08-04	2.97	1.28
08-06	2.97	1.28
08-08	2.97	1.30
10-04	3.25	-
10-06	3.25	-
10-08	3.25	-

MODEL SIZE	LIST PRICE (US\$)	
	GGH	GGH-G
04-01	0.90	1.07
06-01	0.94	1.13
06-02	1.20	1.43
08-01	0.98	1.18
08-02	1.28	1.54
10-02	1.39	1.67

MODEL SIZE	LIST PRICE (US\$)	
	GXT	GXT-G
04-01	1.73	2.07
04-02	1.95	2.33
06-01	1.95	2.33
06-02	2.16	2.59
06-03	2.48	2.99
06-04	3.12	3.74
08-01	2.33	2.80
08-02	2.33	2.80
08-03	2.44	2.93
08-04	3.16	3.81

MODEL SIZE	LIST PRICE (US\$)
	GLJ45
4	0.90
6	1.07
8	1.28
10	1.73
12	2.46
6-4	1.07
8-6	1.37
10-8	1.84
12-10	2.67

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IMPERIAL (INCH) PUSH-IN FITTINGS

IMPERIAL (INCH) PUSH-IN FITTINGS



MODEL SIZE	LIST PRICE (US\$)										
	GC	GOC	GCF	GL	GLF	GTF	GLL	GB(GT)	GD(GST)	GX(GWT)	GH
5/32-M5/M6	0.25	0.26	0.35	0.31	0.47	0.41	0.51	0.50	0.50	0.50	0.65
5/32'-01	0.26	0.27	0.48	0.32	0.51	0.61	0.51	0.51	0.51	0.51	0.65
5/32'-02	0.39	0.40	0.68	0.51	0.68	0.82	0.71	0.60	0.60	0.60	0.82
1/4-M5/M6	0.31	0.31	0.40	0.37	0.49	0.51	0.68	0.56	0.56	0.56	0.71
1/4'-01	0.31	0.31	0.51	0.40	0.52	0.61	0.57	0.58	0.58	0.58	0.75
1/4'-02	0.42	0.43	0.68	0.51	0.74	0.89	0.76	0.63	0.63	0.63	0.89
1/4'-03	0.57	0.57	1.02	0.66	1.05	1.26	0.99	0.82	0.82	0.82	1.19
1/4'-04	0.98	1.05	1.22	1.06	1.36	1.64	1.48	1.18	1.18	1.18	1.81
5/16'-01	0.40	0.40	0.51	0.53	0.60	0.72	0.84	0.65	0.65	0.65	0.79
5/16'-02	0.42	0.43	0.74	0.56	0.82	0.99	0.84	0.69	0.69	0.69	0.91
5/16'-03	0.56	0.57	1.02	0.74	1.11	1.33	1.09	0.86	0.86	0.86	1.19
5/16'-04	0.96	1.02	1.25	1.06	1.36	1.64	1.63	1.20	1.20	1.20	0.00
3/8'-01	0.61	0.63	0.79	0.68	0.82	0.99	1.42	0.94	0.94	0.94	1.87
3/8'-02	0.65	0.65	0.85	0.88	0.97	1.16	1.44	0.98	0.98	0.98	1.16
3/8'-03	0.65	0.65	1.19	0.88	1.25	1.50	1.35	0.98	0.98	0.98	1.36
3/8'-04	0.92	0.99	1.39	1.25	1.56	1.88	1.95	1.35	1.35	1.35	1.96
1/2'-01	0.88	0.91	1.13	1.16	1.36	1.64	2.33	1.35	1.35	1.35	-
1/2'-02	0.94	0.94	1.31	1.21	1.39	1.67	2.35	1.40	1.40	1.40	1.35
1/2'-03	0.92	0.94	1.19	1.23	1.42	1.70	2.18	1.40	1.40	1.40	1.55
1/2'-04	1.13	1.13	1.42	1.29	1.70	2.04	2.30	1.47	1.47	1.47	1.94



MODEL SIZE	LIST PRICE (US\$)						
	GHF	GHL2	GHL3	GMF	GSC(NSE)	GKB	GA
5/32-M5/M6	0.76	1.36	2.04	0.60	1.15	1.19	1.13
5/32'-01	0.76	1.42	2.04	0.63	1.17	1.19	1.13
5/32'-02	1.02	1.70	2.73	0.85	1.33	1.19	1.93
1/4-M5/M6	0.80	1.42	2.04	0.68	1.21	1.19	1.42
1/4'-01	0.81	1.42	2.22	0.71	1.23	1.19	1.42
1/4'-02	0.99	1.70	2.73	1.08	1.35	1.36	1.93
1/4'-03	1.39	1.93	4.26	1.28	2.13	1.36	2.56
1/4'-04	2.22	2.84	5.11	1.36	3.41	1.42	4.14
5/16'-01	0.85	1.45	2.22	0.85	1.23	1.19	1.48
5/16'-02	1.05	1.99	2.73	1.17	1.42	1.36	1.93
5/16'-03	1.42	2.84	4.26	1.28	2.27	1.36	2.61
5/16'-04	2.27	4.54	5.11	1.42	3.41	1.42	4.14
3/8'-01	0.79	1.56	2.22	1.17	1.48	1.36	1.48
3/8'-02	1.26	2.22	2.73	1.70	1.62	1.36	2.04
3/8'-03	1.53	3.07	4.26	1.76	2.22	1.36	2.61
3/8'-04	2.44	4.77	5.11	1.79	3.41	1.42	4.14
1/2'-01	-	-	-	1.70	-	-	-
1/2'-02	1.40	2.38	3.07	1.85	1.70	-	2.04
1/2'-03	1.66	3.07	4.43	1.90	2.30	-	2.61
1/2'-04	2.47	4.12	4.43	2.10	3.41	-	4.20

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IMPERIAL (INCH) PUSH-IN FITTINGS

IMPERIAL (INCH) PUSH-IN FITTINGS



MODEL SIZE	LIST PRICE (US\$)										
	GU[GUC]	GV[GUL]	GE[GUT]	GY	GPF	GZ	GP	GK	GLM	GM	GSU(NSF)
5/32'	0.22	0.22	0.29	0.29	0.25	0.51	0.17	0.71	0.85	0.76	1.66
1/4"	0.25	0.25	0.31	0.31	0.31	0.60	0.17	0.94	0.91	0.82	1.81
5/16"	0.28	0.28	0.34	0.34	0.33	0.60	0.21	1.13	1.13	1.01	1.96
3/8"	0.37	0.37	0.51	0.51	0.45	0.79	0.23	1.26	1.99	1.78	2.11
1/2"	0.49	0.49	0.66	0.66	0.58	0.91	0.26	0.00	2.56	2.29	3.07



MODEL SIZE	LIST PRICE (US\$)
	GLJ
5/32'	0.56
1/4"	0.65
5/16"	0.68
3/8"	0.94
1/2"	1.10



MODEL SIZE	LIST PRICE (US\$)	
	GHVSF	GHVFS
1/4'-01	2.73	2.73
1/4'-02	2.80	2.80
1/4'-03	2.88	2.88
5/16'-01	2.73	2.73
5/16'-02	2.80	2.80
5/16'-03	2.88	2.88
3/8'-01	3.94	3.94
3/8'-02	4.09	4.09
3/8'-03	4.24	4.24
3/8'-04	4.54	4.54
1/2'-01	3.78	3.78
1/2'-02	4.09	4.09
1/2'-03	4.24	4.24
1/2'-04	4.54	4.54



MODEL SIZE	LIST PRICE (US\$)
	GHVSS
01-01	2.70
02-01	2.89
02-02	2.96
02-03	3.06
03-03	3.14
04-03	3.25
04-04	3.32



MODEL SIZE	LIST PRICE (US\$)
	GHVSS
1/4'-1/4'	2.65
5/16'-1/4'	2.65
5/16'-5/16'	2.65
3/8'-5/16'	3.79
3/8'-3/8'	3.79
1/2'-3/8'	3.79
1/2'-1/2'	3.79



MODEL SIZE	LIST PRICE (US\$)						
	GU [GG]	GEG/GEW	GY[GW]	GK[GKG]	GGJ	GYJ	GKJ
1/4'-5/32'	0.26	0.38	0.36	0.71	0.46	0.76	1.02
5/16'-5/32'	0.31	0.34	0.34	0.73	0.49	0.76	1.08
5/16'-1/4'	0.30	0.38	0.38	0.73	0.49	0.85	1.08
3/8'-1/4'	0.38	0.45	0.45	1.00	0.61	0.95	1.28
3/8'-5/16'	0.36	0.51	0.48	1.02	0.61	0.95	1.42



MODEL SIZE	LIST PRICE (US\$)	
	GHVJ	GKJ
5/32'	0.68	0.85
1/4"	0.68	1.02
5/16"	0.79	1.08
3/8"	0.95	1.28
1/2"	1.23	1.42



MODEL SIZE	LIST PRICE (US\$)
	GKD
1/4-5/32-01	1.19
5/16-5/32-02	1.31
5/16-1/4-02	1.31

STOP VALVE AND CHECK VALVE

STOP VALVE

APPLICATION

Used in the place where pneumatic piping frequently changes

FEATURES

Air is completely blocked when the tube is released and the air flows again only after connection to ensure safety. The air flows only when the tube is connected.

FLUID TYPE	AIR (NO OTHER TYPE OF GAS OR LIQUID)	
WORKING PRESSURE RANGE	0-150 PSI	0-9.9Kgf/cm ² [0-990Kpa]
NEGATIVE PRESSURE	-29.5 IN Hg	-750mm Hg [10 Torr]
WORKING TEMPERATURE	32-140°F	0-60°C
APPLICATION TUBE	PU / PE / NYLON TYBE	

CHECK VALVE

APPLICATION

Check valves permit air flow in one direction
Used for maintaining the output pressure at a constant level

FEATURES

The check valves permit the air flow in one direction but to stop in the reverse direction. The check valves work at the pressure of 0.1kgf/cm², keeps 1.42 PSI in vaccum and connect at a low pressure.

FLUID TYPE	AIR (NO OTHER TYPE OF GAS OR LIQUID)	
WORKING PRESSURE RANGE	0-150 PSI	0-9.9Kgf/cm ² [0-990Kpa]
NEGATIVE PRESSURE	-29.5 IN Hg	-750mm Hg [10 Torr]
WORKING TEMPERATURE	32-140°F	0-60°C
APPLICATION TUBE	PU / POLYURETHANE / NYLON TYBE	

STOP VALVE AND CHECK VALVE



MODEL SIZE	LIST PRICE [US\$]			
	SGC	SGC-G	SGL	SGL-G
04-M5	-	-	1.57	-
04-01	1.28	1.53	1.64	1.97
06-M5	-	-	1.95	-
06-01	1.46	1.75	1.98	2.38
06-02	2.20	2.64	2.66	3.19
08-01	2.04	2.45	2.67	3.21
08-02	2.11	2.53	2.86	3.43
08-03	2.80	3.36	3.80	4.55
10-02	3.21	3.85	4.47	5.37
10-03	3.20	3.84	4.35	5.22
10-04	4.81	5.77	6.73	8.08
12-02	4.82	5.79	6.50	7.80
12-03	4.63	5.55	6.51	7.82
12-04	5.69	6.82	6.87	8.24



MODEL SIZE	LIST PRICE [US\$]
04	1.61
06	1.75
08	1.77
10	3.06
12	3.75



MODEL SIZE	LIST PRICE [US\$]	
	SGC	SGC-G
04-01	1.28	1.75
06-01	1.46	2.64
06-02	2.20	2.45
08-01	2.04	2.53
08-02	2.11	3.36
08-03	2.80	3.85
10-02	3.21	3.84
10-03	3.20	5.77
10-04	4.81	5.79
12-02	4.82	5.55
12-03	4.63	6.82
12-04	5.69	8.55



MODEL SIZE	LIST PRICE [US\$]	
	GCVF(B)	GCVF-G(B)
01-01	3.07	3.69
02-02	4.82	5.79
03-03	6.95	8.33
04-04	11.37	13.64



MODEL SIZE	LIST PRICE [US\$]
04	1.61
06	1.75
08	1.77
10	3.06



MODEL SIZE	LIST PRICE [US\$]
04	1.61
06	1.75
08	1.77
10	3.06

ZINC FITTINGS / METAL ONE-TOUCH FITTINGS (METRIC)

ZINC FITTINGS



MODEL SIZE	LIST PRICE [US\$]									
	Z6C	Z6L	Z6B	Z6D (GST)	Z6W (GWT)	Z6C-G	Z6L-G	Z6B-G	Z6D-G (GS-GT)	Z6X-G (GWTG)
6-01	0.26	0.26	0.30	0.30	0.30	0.27	0.31	0.37	0.37	0.37
6-02	0.27	0.31	0.38	0.38	0.38	0.33	0.39	0.45	0.45	0.45
6-03	0.38	0.39	0.43	0.43	0.43	0.41	0.52	0.58	0.58	0.58
6-04	0.63	0.63	0.64	0.64	0.64	0.64	0.76	0.83	0.83	0.83
8-01	0.27	0.32	0.38	0.38	0.38	0.32	0.37	0.43	0.43	0.43
8-02	0.27	0.33	0.40	0.40	0.40	0.35	0.44	0.50	0.50	0.50
8-03	0.38	0.42	0.48	0.48	0.48	0.43	0.52	0.58	0.58	0.58
8-04	0.63	0.63	0.66	0.66	0.66	0.65	0.80	0.89	0.89	0.89
10-01	0.38	0.44	0.58	0.58	0.58	0.44	0.53	0.64	0.64	0.64
10-02	0.41	0.47	0.61	0.61	0.61	0.46	0.56	0.67	0.67	0.67
10-03	0.43	0.57	0.70	0.70	0.70	0.50	0.62	0.74	0.74	0.74
10-04	0.60	0.68	0.81	0.81	0.81	0.65	0.90	1.05	1.05	1.05
12-02	0.54	0.64	0.81	0.81	0.81	0.63	0.75	0.93	0.93	0.93
12-03	0.54	0.64	0.81	0.81	0.81	0.63	0.77	0.95	0.95	0.95
12-04	0.67	0.69	0.86	0.86	0.86	0.81	0.98	1.15	1.15	1.15
16-03	1.01	1.32	1.67	1.67	1.67	1.20	1.57	2.00	2.00	2.00
16-04	1.01	1.32	1.67	1.67	1.67	1.20	1.57	2.00	2.00	2.00

METAL ONE TOUCH FITTINGS (METRIC)



MODEL SIZE	LIST PRICE [US\$]							
	M6C	M6L	M6CF	M6B	M6D	M6X	M6X	GM6C
4-M5	0.55	0.93	0.66	1.24	1.24	1.24	1.11	2.48
4-M6	0.55	0.93	0.66	1.24	1.24	1.24	1.11	2.48
4-G01	0.55	0.93	0.69	1.24	1.24	1.24	1.45	2.48
4-G02	0.55	0.97	0.69	1.32	1.32	1.32	2.11	3.24
6-M5	0.56	1.28	0.71	1.73	1.73	1.73	1.32	2.48
6-M6	0.56	1.28	0.71	1.73	1.73	1.73	1.32	2.48
6-G01	0.56	1.28	0.71	1.78	1.78	1.78	1.46	2.48
6-G02	0.57	1.32	0.74	1.82	1.82	1.82	2.12	3.24
6-G03	0.74	1.38	0.87	1.90	1.90	1.90	2.49	4.88
6-G04	1.24	1.66	1.10	2.14	2.14	2.14	2.85	6.66
8-G01	0.58	1.53	0.76	2.16	2.16	2.16	1.53	2.48
8-G02	0.59	1.57	0.76	2.21	2.21	2.21	2.12	3.24
8-G03	0.76	1.63	0.88	2.29	2.29	2.29	2.87	4.88
8-G04	1.24	1.66	1.13	2.55	2.55	2.55	2.87	6.66
10-G01	0.87	1.94	0.91	2.61	2.61	2.61	1.56	2.67
10-G02	0.87	1.98	0.91	2.65	2.65	2.65	2.22	3.24
10-G03	0.93	2.05	0.95	2.73	2.73	2.73	2.70	4.88
10-G04	1.30	2.23	1.45	2.94	2.94	2.94	3.08	6.77
12-G02	1.09	2.44	1.36	3.10	3.10	3.10	2.25	3.24
12-G03	1.18	2.52	1.42	3.18	3.18	3.18	2.74	4.95
12-G04	1.42	2.73	1.49	3.38	3.38	3.38	3.12	6.77

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.

METAL ONE TOUCH FITTINGS (METRIC) / (INCH)

METAL ONE TOUCH FITTINGS (METRIC)



MODEL SIZE	LIST PRICE (US\$)				
	MGU	MGV	MGE	MGY	MGM
4	0.74	0.76	1.07	1.36	1.29
6	0.81	0.83	1.28	1.64	1.32
8	1.09	1.11	1.78	2.27	1.66
10	1.49	1.52	2.44	3.10	2.03
12	1.78	1.90	2.81	3.59	2.38

MODEL SIZE	LIST PRICE (US\$)
	MGGJ
6-4	0.67
8-4	0.71
8-6	0.71
10-6	1.02
10-8	1.02
12-8	1.61
12-10	1.61

METAL ONE TOUCH FITTINGS (INCH)



MODEL SIZE	LIST PRICE (US\$)							
	MGC	MGL	MGCF	MGB	MGD	MGX	MGH	GMSC
5/32-M5	0.57	0.98	0.69	1.30	1.30	1.30	1.17	2.48
5/32-M6	0.57	0.98	0.69	1.30	1.30	1.30	1.17	2.48
5/32-NPT01	0.57	0.98	0.73	1.30	1.30	1.30	1.52	2.48
5/32-NPT02	0.57	1.02	0.73	1.39	1.39	1.39	2.22	3.24
3/16-M5	0.56	1.28	0.71	1.73	1.73	1.73	1.32	2.48
3/16-M6	0.56	1.28	0.71	1.73	1.73	1.73	1.32	2.48
3/16-NPT01	0.56	1.28	0.71	1.78	1.78	1.78	1.46	2.48
3/16-NPT02	0.57	1.32	0.74	1.82	1.82	1.82	2.12	3.24
1/4-NPT01	0.62	1.41	0.78	1.96	1.96	1.96	1.61	2.48
1/4-NPT02	0.63	1.45	0.82	2.00	2.00	2.00	2.34	3.24
1/4-NPT03	0.82	1.52	0.95	2.08	2.08	2.08	2.74	4.88
1/4-NPT04	1.36	1.83	1.21	2.36	2.36	2.36	3.13	6.66
5/16-NPT01	0.61	1.60	0.80	2.27	2.27	2.27	1.60	2.48
5/16-NPT02	0.62	1.65	0.80	2.32	2.32	2.32	2.23	3.24
5/16-NPT03	0.80	1.71	0.93	2.40	2.40	2.40	3.01	4.88
5/16-NPT04	1.30	1.74	1.18	2.68	2.68	2.68	3.01	6.66
3/8-NPT01	0.91	2.04	0.95	2.74	2.74	2.74	1.64	2.67
3/8-NPT02	0.91	2.08	0.95	2.78	2.78	2.78	2.33	3.24
3/8-NPT03	0.98	2.15	1.00	2.87	2.87	2.87	2.84	4.88
3/8-NPT04	1.36	2.34	1.52	3.09	3.09	3.09	3.24	6.77
1/2-NPT02	1.20	2.68	1.50	3.41	3.41	3.41	2.47	3.24
1/2-NPT03	1.29	2.77	1.56	3.50	3.50	3.50	3.01	4.95
1/2-NPT04	1.56	3.00	1.64	3.72	3.72	3.72	3.43	6.77

METAL ONE TOUCH FITTINGS (INCH)

METAL ONE TOUCH FITTINGS (INCH)



MODEL SIZE	LIST PRICE (US\$)				
	MGU	MGV	MGE	MGY	MGM
5/32	0.78	0.84	1.13	1.43	1.35
3/16	0.81	0.87	1.28	1.64	1.32
1/4	0.89	0.96	1.41	1.81	1.45
5/16	1.14	1.23	1.87	2.39	1.74
3/8	1.56	1.67	2.56	3.26	2.14
1/2	1.96	2.19	3.09	3.95	2.62

MODEL SIZE	LIST PRICE (US\$)
	MGGJ
1/4"-5/32"	0.73
5/16"-5/32"	0.78
5/16"-1/4"	0.78
3/8"-1/4"	1.12
3/8"-5/16"	1.12
1/2"-5/16"	1.78
1/2"-3/8"	1.78



HOSE MANAGEMENT SYSTEM



DRIVE IMPROVEMENT WITH INFORMATION

Flexible hose assemblies account for 47% of downtime on a drilling rig. What's your plan?

THE PRODUCT LINE: BETTER DESIGN & SHORTER LEAD TIME

Deeper wells, elevated temperatures, and directional drilling require systems that perform at higher levels than ever before. That's why Gates offers a full line of products and services for critical FHAs in the oil and gas industry, including:

- > **Hydraulic, Industrial, and Rotary Hoses** rated up to 15,000 psi working pressure.
- > **Rig-Site Survey** where a Gates hose specialist performs a full, onsite risk assessment of your FHA.
- > **Large Bore Cut & Couple** program for big, critical application hose assemblies.
- > **MobileCrimp®** for lightweight, versatile crimpers powerful enough to crimp 4 spiral-wire hose on location.
- > **Hydraulic Fluid Flushing** descales sediment and removes contaminants from the fluid, reducing wear on the line.
- > **Breathing Air Manifolds** to be used in oil & gas environments where toxic gases (H₂S) are present.
- > **Hose Rental** services for short-term projects, as an onsite back up contingency during Frac jobs

DIMINISH DOWNTIME. OPTIMIZE EFFICIENCY. SAVE MILLIONS.

DOWNTIME AND LOST PRODUCTION CAN COST MILLIONS OF DOLLARS A DAY IN THE OIL & GAS INDUSTRY.

As the leader in fluid power engineering, Gates delivers premium Engineering & Services to decrease downtime, increase safety for the oil & gas market, and foster risk management. But what really sets Gates apart in Engineering & Services is our Hose Management System.

WHAT MAKES GATES HOSE MANAGEMENT SYSTEMSSM * SO UNIQUE?

SENTRY™ TAG & TRACK :

All Flexible Hose Assembly data collected from the Rig-Site Survey is downloaded, tracked, and documented in our industry-leading, web-based application into a central database in real-time, allowing for life cycle hose management, preventive maintenance, and substantial cost savings.

SENTRY™ DAT :

This is the report engine of Sentry Services that allows users to see replacement cycles, activities, inspection, and performance data. Only Sentry DAT allows users to do a full data analysis on performance or costs within the application, run reports, and make smarter decisions.

DISCOVER GATES® INSPECTION, MAINTENANCE & RE-CERTIFICATION SERVICES.

In harsh environments such as oil drilling, Inspection, Maintenance & Re-Certification (IMR) Services are critical to maximizing asset life, reliability, and uptime. Gates IMR Services provide periodic inspection and thorough testing of a customer's drilling and service hoses, making sure the critical hose assembly meets both regulatory standards and certifications.

Gates IMR is an essential component to any successful equipment maintenance program, and includes:

- **A visual inspection through an endoscopic hose analysis**
- **Thorough cleaning of the hose — both internally and externally, and**
- **A pass/fail rating at every stage**

Gates then performs hose maintenance, makes replacement recommendations, and runs a hydrostatic test to ensure the integrity of the hose meets the demands of the flexible pipe or hose assembly application.

FOR MORE INFORMATION ON HOW GATES HOSE MANAGEMENT SYSTEM

**CAN DIMINISH DOWNTIME AND SAVE YOU
MILLIONS, VISIT GATES.COM/ES.**

Due to continual product improvements, Gates reserves the right to alter specs and prices without prior notice.

HYDRAULIC TUBING & PIPING

HYDRAULIC PRESSURE TESTING & HOT OIL FLUSHING

HYDRAULIC TUBING & PIPING

Gates Engineering & Services has a highly-experienced piping and tubing team which can handle specifications of SS and CS material.

Piping includes weld joints and compression type, flanged, threaded, flared, and wall forming type fittings. Our services cover hydraulic systems for lube oil, fuel oil, gear oil, grease, air, nitrogen, gas and utility pipelines. Some applications and services include:

- > Hydraulic tubing for hydraulic systems
- > Rack choke systems on rigs
- > Jack-up piping systems for oil rigs
- > Ballast control systems for barges and ocean-going vessels
- > Well head control lines
- > Steering, bow thruster and deck machinery for vessels
- > Underground well head control lines on land-based oil rigs
- > Land drilling rig hydraulic systems for mast-raising, jack-up, winch systems, etc.
- > Navigation hydraulic systems
- > Controllable Pitch Propeller (CPP) systems
- > Skidding systems for offshore rigs

HYDRAULIC PRESSURE TESTING & HOT OIL FLUSHING

System contamination is the leading cause of equipment failure in hydraulic systems. Whether the contamination is particulate or water, we ensure through our processes that there is no catastrophic failure and expensive downtime for equipment repair.

Gates Engineering & Services can assess a system's cleanliness level using oil samples and input from the customer on system performance, maintenance and operating conditions. This is supported by our capabilities, which include:

- > A fleet of flushing and pressure testing rigs. Fleet includes remote operating pumps should there be space constraints.
- > Applications in oilfield, marine and industrial operations to meet offshore standards.
- > Flushing rigs from 10 lpm to 2000 lpm, fitted with high quality filters, flow indicators, oil heaters and other related components to achieve high-efficiency filtration and meet NAS level standard [ISO 4406].
- > Temperature control to achieve the desired turbulent flows to maintain required Reynold No's so as to optimize the flushing operation and minimize activity duration.

Our team is well-prepared to execute jobs to the highest oilfield standards with method statements, calibration requirements, execution plans, risk assessments, after-test documentation and safety training for offshore and onshore operations.





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ENGINEERING & SERVICES

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