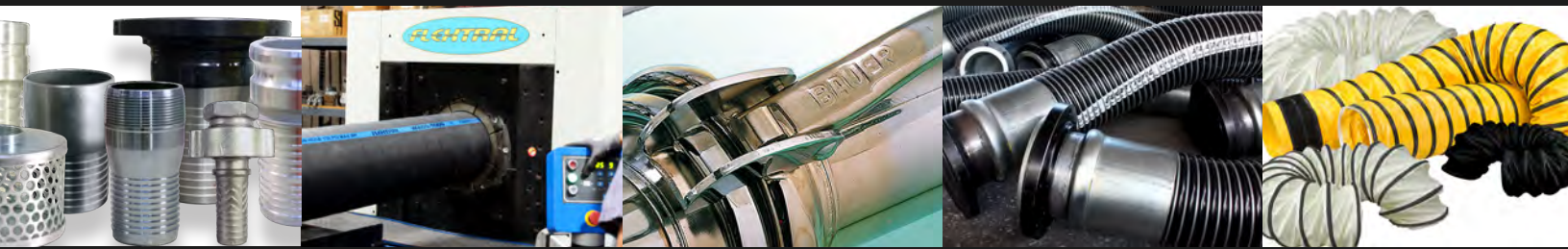




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## Limited Warranty

Bridgestone HosePower LLC. warrants that any new hose assemblies sold by Bridgestone HosePower shall be free from defects in material and/or workmanship at the time of manufacture.

Should any assembly covered by this limited warranty be defective with respect to material and/or workmanship under normal use and with proper installation and maintenance, during the period specified herein following the delivery of the product to the original purchaser, Bridgestone HosePower will replace or repair such defective part or assembly.

The obligation of this warranty shall be limited to replacement cost, not to exceed the standard cost from Bridgestone HosePower, plus service charge and/or labor to install such part. The warranty amount will be credited to your account only after it has been determined to be a defective assembly by a HosePower representative.

A letter to Bridgestone HosePower with your standard warranty report from the field must accompany the product in question. It is to be sent to Bridgestone HosePower, prepaid via UPS/ Ground (collect not accepted) within 60-days from the date the claim first arises. Note: Complete assembly to be sent (hose and fittings.)

This warranty specifically excludes all liabilities for damage arising from loss or use or profits or injury to business, credit, reputation or financial standing and all other consequential damages.

This warranty is in lieu of all other warranties. No implied or statutory warranties of merchantability or fitness for a particular purpose shall apply. There are no warranties, which extend beyond this document. This writing constitutes a complete, exclusive and final agreement of HosePower's warranty obligation.

1. Period: Bridgestone HosePower's obligation under this warranty shall continue only for one year from the date the product is delivered to the O.E.M.
2. Limitations and Exclusions: This warranty shall not apply to the malfunction of the HosePower assembly resulting from:
  - a) Failure to properly install product.
  - b) Improper specifications of product for application.
  - c) Lack of operating skill of the operator, including carelessness and abusive use, overloading and insufficient or improper maintenance.
  - d) Replacement of parts or assemblies which can be repaired by minor adjustments, such as tightening of all fittings, etc.
  - e) Any other kind of misuse or detrimental exposure, including collision and/or accident.





## AR10 RED GENERAL PURPOSE AIR/WATER



**Application:**

Air, water, agricultural spray solutions, and other diluted chemicals. Good resistance to heat, abrasion, and weathering.

**Construction:**

**Tube** - Black, limited oil resistant synthetic rubber

**Reinforcement** - Synthetic yarn

**Cover** - Smooth, red, abrasion, weather, and ozone resistant rubber

**Branding** - FLEXTAL AR10-100 1" (25.4mm) GENERAL PURPOSE AIR/WATER 200 PSI MAX WP

**Temperature Range:**

-29°C to +80°C (-20°F to +180°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Reel Lengths
AR10-025	1/4	0.50	200	0.11	600'
AR10-031	5/16	0.58	200	0.14	600'
AR10-038	3/8	0.67	200	0.18	600'
AR10-050	1/2	0.81	200	0.24	600'
AR10-063	5/8	0.97	200	0.32	400'
AR10-075	3/4	1.12	200	0.42	400'
AR10-100	1	1.45	200	0.65	250'
AR10-125	1 1/4	1.73	200	0.84	200' Coils
AR10-150	1 1/2	2.09	200	1.24	200' Coils
AR10-200	2	2.60	200	1.62	200' Coils

## AR10 RED GENERAL PURPOSE 200 PSI ASSEMBLIES



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
AR10-025MMXF025-BR	1/4" x 25'	1/4" M-NPT	1/4" M-NPT	Crimp
AR10-025MMXF050-BR	1/4" x 50'	1/4" M-NPT	1/4" M-NPT	Crimp
AR10-038M2525MXF025-BR	3/8" x 25'	1/4" M-NPT	1/4" M-NPT	Crimp
AR10-038M2525MXF050-BR	3/8" x 50'	1/4" M-NPT	1/4" M-NPT	Crimp
AR10-038M2525MXF100-BR	3/8" x 100'	1/4" M-NPT	1/4" M-NPT	Crimp
AR10-038MMXF050-BR	3/8" x 50'	3/8" M-NPT	3/8" M-NPT	Crimp
AR10-038MMXF100-BR	3/8" x 100'	3/8" M-NPT	3/8" M-NPT	Crimp
AR10-050MMXF050-BR	1/2" x 50'	1/2" M-NPT	1/2" M-NPT	Crimp

\*Call for additional fittings, lengths and assemblies.

**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>





## AR11 BLACK GENERAL PURPOSE AIR/WATER



**Application:**

Air, water, agricultural spray solutions, and other diluted chemicals. Good resistance to heat, abrasion, and weathering.

**Construction:**

**Tube** - Black, limited oil resistant synthetic rubber

**Reinforcement** - Synthetic yarn

**Cover** - Smooth, black, abrasion, and weather resistant rubber

**Branding** - FLEXTRAL AR11-050 1/2" (12.7mm) GENERAL PURPOSE AIR/WATER 200 PSI MAX WP

**Temperature Range:**

-29°C to +80°C (-20°F to +180°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Reel Lengths
AR11-025	1/4	0.50	200	0.11	600'
AR11-031	5/16	0.58	200	0.14	600'
AR11-038	3/8	0.67	200	0.18	600'
AR11-050	1/2	0.81	200	0.23	600'
AR11-063	5/8	0.97	200	0.31	400'
AR11-075	3/4	1.12	200	0.41	400'
AR11-100	1	1.44	200	0.63	250'
AR11-125	1 1/4	1.73	200	0.82	200' Coils
AR11-150	1 1/2	2.08	200	1.20	200' Coils
AR11-200	2	2.60	200	1.57	200' Coils

## AR11 BLACK GENERAL PURPOSE AIR/WATER 200 PSI ASSEMBLIES

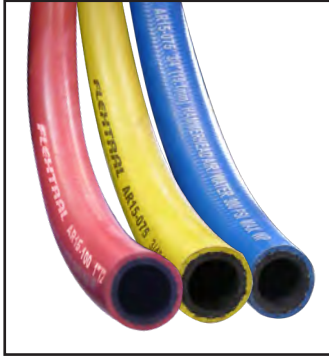


Part No.	Hose Size & Length	End 1	End 2	Attaching Method
AR11-025MMXF025-BR	1/4" x 25'	1/4" M-NPT	1/4" M-NPT	Crimp
AR11-025MMXF050-BR	1/4" x 50'	1/4" M-NPT	1/4" M-NPT	Crimp
AR11-038M2525MXF025-BR	3/8" x 25'	1/4" M-NPT	1/4" M-NPT	Crimp
AR11-038M2525MXF050-BR	3/8" x 50'	1/4" M-NPT	1/4" M-NPT	Crimp
AR11-038M2525MXF100-BR	3/8" x 100'	1/4" M-NPT	1/4" M-NPT	Crimp
AR11-038MMXF050-BR	3/8" x 50'	3/8" M-NPT	3/8" M-NPT	Crimp
AR11-038MMXF100-BR	3/8" x 100'	3/8" M-NPT	3/8" M-NPT	Crimp
AR11-050MMXF050-BR	1/2" x 50'	1/2" M-NPT	1/2" M-NPT	Crimp

\*Call for additional fittings, lengths and assemblies.

**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

## AR15 “HAMMERHEAD” JACKHAMMER



**Application:**

Heavy-duty air supply and Jackhammer applications in the industrial, rental, and construction markets. This hose is designed to accommodate in-line oil misting.

**Construction:**

**Tube** - Black, limited oil resistant synthetic rubber, ARPM Class B

**Reinforcement** - Synthetic yarn

**Cover** - Smooth, cut and abrasion resistant rubber

**Branding** - FLEXTRAL AR15-075 3/4” (19.1mm) HAMMERHEAD AIR/WATER 300 PSI MAX WP

**Temperature Range:**

-29°C to +80°C (-20°F to +180°F)

Part No.	Color	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Reel Lengths
AR15-075RD	Red	3/4	1.14	300	0.35	400'
AR15-075YW	Yellow	3/4	1.14	300	0.35	400'
AR15-075BL	Blue	3/4	1.14	300	0.35	400'

## AR15 “HAMMERHEAD” JACKHAMMER ASSEMBLIES



Part No.	Color	Hose Size & Length	End 1	End 2	Attaching Method
AR15-075RDUUXF050-PS	Red	3/4” x 50'	Universal	Universal	Crimp
AR15-075YWUUXF050-PS	Yellow	3/4” x 50'	Universal	Universal	Crimp
AR15-075BLUUXF050-PS	Blue	3/4” x 50'	Universal	Universal	Crimp

\*Call for additional fittings, lengths and assemblies.



WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## AR18 "DUST DEVIL" JACKHAMMER AIR/WATER ASSEMBLIES



**Application:**

Jackhammer applications requiring dust control in accordance with OSHA's regulations on Respirable Crystalline Silica (RCS).

**Tube** - Black EPDM, ARPM Class C

**Reinforcement** - Synthetic yarn

**Cover - Air:** Red, abrasion and ozone resistant EPDM, ARPM Class C

**Water:** Blue, abrasion and ozone resistant EPDM

**Temperature Range:**

-40°C to +80°C (-40°F to +180°F)

Part No.	Hose	Hose Size & Length	End 1	End 2	Attaching Method	Max W.P. PSI
AR18-075RDUUXF050-PS	Air (Red)	3/4" x 50'	Universal	Universal	Crimp	300
	Water (Blue)	3/8" x 50'	3/8" M-NPT (Brass)	3/8" M-NPT (Brass)	Crimp	300



**Retrofit Kit for use with most jackhammers:**

Kit includes instructions and everything needed to adapt the twinline jackhammer hose to an existing hammer.

Effective September 2017, OSHA regulation 29 CFR 1926.1153 requires employers to limit worker exposure to RCS (Respirable Crystalline Silica). RCS is a mineral typically found in concrete, brick, mortar, sand and stone which has been linked to potentially debilitating respiratory diseases if embedded into the worker's lungs. Water is one of the preferred methods of dust control which helps to mitigate potential for exposure to RCS on job sites.

Part No.
AR18-KIT

**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## AR20 RED GENERAL PURPOSE AIR/WATER



**Application:**

Air, water, agricultural spray solutions, and other diluted chemicals. Good resistance to heat, abrasion, and weathering.

**Construction:**

**Tube** - Black, limited oil resistant synthetic rubber

**Reinforcement** - Synthetic yarn

**Cover** - Smooth, red, abrasion, weather, and ozone resistant rubber

**Branding** - FLEXTAL AR20-100 1" (25.4mm) GENERAL PURPOSE AIR/WATER 300 PSI MAX WP

**Temperature Range:**

-29°C to +80°C (-20°F to +180°F)


Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Reel Lengths
AR20-025	¼	0.53	300	0.13	600'
AR20-038	⅜	0.70	300	0.21	600'
AR20-050	½	0.84	300	0.27	600'
AR20-063	⅝	0.98	300	0.34	400'
AR20-075	¾	1.15	300	0.46	400'
AR20-100	1	1.47	300	0.68	250'
AR20-125	1¼	1.73	300	0.84	200' Coils
AR20-150	1½	2.09	300	1.24	200' Coils
AR20-200	2	2.64	300	1.74	200' Coils

## AR20 RED GENERAL PURPOSE 300 PSI ASSEMBLIES



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
AR20-025MMXF025-BR	¼" x 25'	¼" M-NPT	¼" M-NPT	Crimp
AR20-025MMXF050-BR	¼" x 50'	¼" M-NPT	¼" M-NPT	Crimp
AR20-038M2525MXF025-BR	⅜" x 25'	¼" M-NPT	¼" M-NPT	Crimp
AR20-038M2525MXF050-BR	⅜" x 50'	¼" M-NPT	¼" M-NPT	Crimp
AR20-038M2525MXF100-BR	⅜" x 100'	¼" M-NPT	¼" M-NPT	Crimp
AR20-038MMXF050-BR	⅜" x 50'	⅜" M-NPT	⅜" M-NPT	Crimp
AR20-038MMXF100-BR	⅜" x 100'	⅜" M-NPT	⅜" M-NPT	Crimp
AR20-050MMXF050-BR	½" x 50'	½" M-NPT	½" M-NPT	Crimp

\*Call for additional fittings, lengths and assemblies.

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## AR30 RED OIL RESISTANT MULTI-PURPOSE AIR/WATER



**Application:**

A premium quality, multi-purpose hose for industrial air service, compressor lines, pneumatic tools, low-pressure spray, and many other applications where oil resistance is needed. Non-conductive, minimum electrical resistance greater than (1) megaohm per inch of hose length at 1,000 Volts DC.

**Construction:**

**Tube** - Black, nitrile, ARPM Class A (high-oil resistance)

**Reinforcement** - Synthetic yarn

**Cover** - Red, NBR blend, ARPM Class B

**Branding** - FLEXTRAL AR30-038 3/8" (9.5mm) ORCT NON CONDUCTIVE OIL RESISTANT 300 PSI MAX WP

**Temperature Range:**

-29°C to +88°C (-20°F to +190°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Reel Lengths
AR30-025	1/4	0.54	300	0.12	600'
AR30-031	5/16	0.64	300	0.16	600'
AR30-038	3/8	0.69	300	0.17	600'
AR30-050	1/2	0.86	300	0.25	600'
AR30-063	5/8	1.02	300	0.33	400'
AR30-075	3/4	1.19	300	0.44	400'
AR30-100	1	1.50	300	0.64	250'
AR30-125	1 1/4	1.80	300	0.85	200' Coils
AR30-150	1 1/2	2.09	300	1.09	200' Coils
AR30-200	2	2.64	300	1.51	200' Coils

## AR30 RED OIL RESISTANT MULTI-PURPOSE 300 PSI ASSEMBLIES



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
AR30-025MMXF025-BR	1/4" x 25'	1/4" M-NPT	1/4" M-NPT	Crimp
AR30-025MMXF050-BR	1/4" x 50'	1/4" M-NPT	1/4" M-NPT	Crimp
AR30-038M2525MXF025-BR	3/8" x 25'	1/4" M-NPT	1/4" M-NPT	Crimp
AR30-038M2525MXF050-BR	3/8" x 50'	1/4" M-NPT	1/4" M-NPT	Crimp
AR30-038M2525MXF100-BR	3/8" x 100'	1/4" M-NPT	1/4" M-NPT	Crimp
AR30-038MMXF050-BR	3/8" x 50'	3/8" M-NPT	3/8" M-NPT	Crimp
AR30-038MMXF100-BR	3/8" x 100'	3/8" M-NPT	3/8" M-NPT	Crimp
AR30-050MMXF050-BR	1/2" x 50'	1/2" M-NPT	1/2" M-NPT	Crimp

\*Call for additional fittings, lengths and assemblies.

**!** WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## AR32 “ARCTIC AIR” COLD TEMP



### Application:

“Arctic Air” Cold Temp hoses are manufactured to be extremely tough and flexible at very low-temperatures. The superior physical properties and design of the hose makes it outperform other general purpose PVC and rubber hoses in cold weather air tool applications.

### Construction:

**Tube** - High-grade, low-temperature PVC compound

**Reinforcement** - High-tensile strength polyester yarn

**Cover** - High-grade, low-temperature PVC compound

### Temperature Range:

-40°C to +65°C (-40°F to +150°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
AR32-025BL	¼	0.50	300	0.08	100'/500'
AR32-038BL	⅜	0.63	300	0.10	100'/500'
AR32-050BL	½	0.78	300	0.15	100'/500'
AR32-075BL	¾	1.08	200	0.25	100'/300'
AR32-100BL	1	1.36	200	0.35	100'/300'

\*BL indicates the color Blue. For other colors add the suffix to the part number as follows: YW - Yellow.

## AR32 “ARCTIC AIR” COLD TEMP ASSEMBLIES



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
AR32-025BLMMXF025-BR	¼" x 25'	¼" M-NPT	¼" M-NPT	Crimp
AR32-025BLMMXF050-BR	¼" x 50'	¼" M-NPT	¼" M-NPT	Crimp
AR32-038BLM2525MXF025-BR	⅜" x 25'	¼" M-NPT	¼" M-NPT	Crimp
AR32-038BLM2525MXF050-BR	⅜" x 50'	¼" M-NPT	¼" M-NPT	Crimp
AR32-038BLM2525MXF100-BR	⅜" x 100'	¼" M-NPT	¼" M-NPT	Crimp
AR32-038BLMMXF025-BR	⅜" x 25'	⅜" M-NPT	⅜" M-NPT	Crimp
AR32-038BLMMXF050-BR	⅜" x 50'	⅜" M-NPT	⅜" M-NPT	Crimp
AR32-038BLMMXF100-BR	⅜" x 100'	⅜" M-NPT	⅜" M-NPT	Crimp

\*BL indicates the color Blue. For other colors add the suffix to the part number as follows: YW - Yellow.

\*Call for additional fittings, lengths and assemblies.



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## AR35 HIGH-VISIBILITY AIR



### Application:

High-visibility, safety green, air hose has a rubber-like look and feel which enhances flexibility while maintaining durability and cost efficiencies of PVC. The bright color enhances job-site safety.

### Construction:

**Tube** - Specially formulated, PVC compound

**Reinforcement** - High-tensile strength textile cord

**Cover** - High-visibility, safety green, rubberized thermoplastic compound

**Branding** - FLEXTRAL AR35-025 1/4" (6.4mm) HIGH VISIBILITY AIR HOSE ID 300 PSI W.P.

### Temperature Range:

-26°C to +65°C (-15°F to +150°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
AR35-025	1/4	0.48	300	0.08	500'
AR35-038	3/8	0.60	300	0.11	500'
AR35-050	1/2	0.75	300	0.14	500'
AR35-063	5/8	0.90	300	0.19	300'
AR35-075	3/4	1.06	300	0.24	300'
AR35-100	1	1.33	150	0.33	300'

## AR35 HIGH-VISIBILITY ASSEMBLIES



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
AR35-025MMXF025-BR	1/4" x 25'	1/4" M-NPT	1/4" M-NPT	Crimp
AR35-025MMXF050-BR	1/4" x 50'	1/4" M-NPT	1/4" M-NPT	Crimp
AR35-025MMXF100-BR	1/4" x 100'	1/4" M-NPT	1/4" M-NPT	Crimp
AR35-038M2525MXF025-BR	3/8" x 25'	1/4" M-NPT	1/4" M-NPT	Crimp
AR35-038M2525MXF050-BR	3/8" x 50'	1/4" M-NPT	1/4" M-NPT	Crimp
AR35-038M2525MXF100-BR	3/8" x 100'	1/4" M-NPT	1/4" M-NPT	Crimp
AR35-038MMXF025-BR	3/8" x 25'	3/8" M-NPT	3/8" M-NPT	Crimp
AR35-038MMXF050-BR	3/8" x 50'	3/8" M-NPT	3/8" M-NPT	Crimp
AR35-038MMXF100-BR	3/8" x 100'	3/8" M-NPT	3/8" M-NPT	Crimp

\*Call for additional fittings, lengths and assemblies.

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## AR40 PVC AIR/WATER



### Application:

Air and water general purpose hose for use in weather where flexibility is required. Ideal for in plant applications where flexibility and handling in tight spaces is required.

### Construction:

**Tube** - High-grade, PVC compound

**Reinforcement** - High-tensile strength polyester yarn

**Cover** - High-grade, PVC compound

**Branding** - FLEXTRAL AR40-025 1/4" (6.4mm) 300 PSI MAX WP AIR

### Temperature Range:

-4°C to +65°C (+25°F to +150°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
AR40-025RD	1/4	0.48	300	0.08	500'
AR40-038RD	3/8	0.60	300	0.11	500'
AR40-050RD	1/2	0.75	300	0.14	500'
AR40-063RD	5/8	0.90	300	0.19	300'
AR40-075RD	3/4	1.06	250	0.24	300'
AR40-100RD	1	1.33	150	0.33	300'

\*RD indicates the color Red. For other colors add the suffix to the part number as follows: BL - Blue, YW - Yellow, and GY - Gray.

Some colors are non-stock and may require minimum runs.

## AR40 PVC 300 PSI ASSEMBLIES



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
AR40-025RDMMXF025-BR	1/4" x 25'	1/4" M-NPT	1/4" M-NPT	Crimp
AR40-025RDMMXF050-BR	1/4" x 50'	1/4" M-NPT	1/4" M-NPT	Crimp
AR40-025RDMMXF100-BR	1/4" x 100'	1/4" M-NPT	1/4" M-NPT	Crimp
AR40-038RDM2525MXF025-BR	3/8" x 25'	1/4" M-NPT	1/4" M-NPT	Crimp
AR40-038RDM2525MXF050-BR	3/8" x 50'	1/4" M-NPT	1/4" M-NPT	Crimp
AR40-038RDM2525MXF100-BR	3/8" x 100'	1/4" M-NPT	1/4" M-NPT	Crimp
AR40-038RDMMXF025-BR	3/8" x 25'	3/8" M-NPT	3/8" M-NPT	Crimp
AR40-038RDMMXF050-BR	3/8" x 50'	3/8" M-NPT	3/8" M-NPT	Crimp
AR40-038RDMMXF100-BR	3/8" x 100'	3/8" M-NPT	3/8" M-NPT	Crimp

\*RD indicates the color Red. For other colors add the suffix to the part number as follows: BL - Blue, YW - Yellow, and GY- Gray.

Some colors are non-stock and may require minimum runs.

\*Call for additional fittings, lengths and assemblies.



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## J2 RUBBER COVER PUSH-ON 300 PSI



**Application:**

For use with push-on fittings at working pressures of 300 psi for industrial service. Non-conductive, minimum electrical resistance greater than one (1) megaohm per inch of hose lengths at 1,000 Volts DC. For use with petroleum based hydraulic fluids, water, and lubricating oils.

**Construction:**

**Tube** - High-oil resistant synthetic rubber, ARPM Class A

**Reinforcement**- Spiral synthetic fiber

**Cover** - Synthetic rubber, ARPM Class A (High-Oil Resistance)

**Branding** - FLEXTRAL GRIP LOC J2-08 NON CONDUCTIVE 1/2" 300 PSI WP

**Temperature Range:**

-20°C to +99°C (-4°F to +210°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs./ft.	Reel Lengths
J2-04BK*	1/4	0.51	300	0.13	500'
J2-06BK*	3/8	0.67	300	0.16	500'
J2-08BK*	1/2	0.79	300	0.30	500'
J2-12BK*	3/4	1.08	300	0.45	500'

\*BK indicates the color Black. For other colors change the suffix to the following:

BL - Blue, GY - Gray, GN - Green, RD - Red, BN - Brown, YW - Yellow or WH - White. Some colors are non-stock and may require minimum runs.

\*Call for additional fittings, lengths and assemblies.

## J3 MSHA PREMIUM PUSH-ON 300 PSI



**Application:**

For use with push-on fittings at working pressures of 300 psi for industrial service. Non-conductive, minimum electrical resistance greater than one (1) megaohm per inch of hose lengths at 1,000 Volts DC. For use with petroleum based hydraulic fluids, water, and lubricating oils. Silicone is not used in the production of this hose.

**Construction:**

**Tube** - High-oil and heat resistant synthetic rubber, ARPM Class A

**Reinforcement** - Braided synthetic fiber

**Cover** - Synthetic rubber, oil, abrasion, and UV resistant, MSHA approved, ARPM Class B

**Branding** - FLEXTRAL GRIP LOC J3-12 NON CONDUCTIVE 3/4" 300 PSI MAX WP MSHA

**Temperature:**

-40°C to +99°C (-40°F to +210°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs./ft.	Reel Lengths
J3-04BK*	1/4	0.54	300	0.10	500'
J3-05BK*	5/16	0.62	300	0.12	500'
J3-06BK*	3/8	0.69	300	0.14	500'
J3-08BK*	1/2	0.81	300	0.17	500'
J3-10BK*	5/8	0.93	300	0.20	500'
J3-12BK*	3/4	1.07	300	0.26	500'
J3-16BK*	1	1.34	300	0.34	500'

\*BK indicates the color black. For other colors change the suffix to the following:

BL - Blue, GY - Gray, GN - Green, RD - Red, BN - Brown, YW - Yellow or WH - White. Some colors are non-stock and may require minimum runs.

\*Call for additional fittings, lengths and assemblies.

**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

## J4 HIGH-TEMP. RUBBER COVER PUSH-ON 300 PSI



### Application:

For use with push-on fittings at working pressures of 300 psi for industrial service. Petroleum based hydraulic fluid, lubricating oil, air, water, and antifreeze coolants.

### Construction:

**Tube** - CPE High-oil resistant synthetic rubber, ARPM Class B

**Reinforcement** - Braided synthetic fiber

**Cover** - Synthetic rubber, oil, abrasion, and UV resistant, ARPM Class B

**Branding** - FLEXTAL GRIP LOC J4-12 3/4" 300 PSI MAX WP

### Temperature:

Petroleum based hydraulic fluids: -40°C to +150°C (-40°F to +300°F)

Water/Air: -40°C to +88°C (-40°F to +190°F)

Part No.	I.D. Inches	O.D. Inches.	Max W.P. PSI	Weight lbs / ft	Reel Lengths
J4-04BK*	¼	0.51	300	0.09	500'
J4-06BK*	⅜	0.67	300	0.14	500'
J4-08BK*	½	0.76	300	0.16	500'
J4-10BK*	⅝	0.93	300	0.20	500'
J4-12BK*	¾	1.04	300	0.25	500'

\*BK indicates the color black. For other colors change the suffix to the following:

BL - Blue, GY - Gray, GN - Green, RD - Red, BN - Brown, YW - Yellow or WH - White. Some colors are non-stock and may require minimum runs.

\*Call for additional fittings, lengths and assemblies.

## J5 TEXTILE COVER PUSH-ON 300 PSI



### Application:

For use with push-on fittings at working pressures of 300 psi for industrial service.

Non-conductive, minimum electrical resistance greater than one (1) megaohm per inch of hose lengths at 1,000 Volts DC. For use with petroleum based hydraulic fluids, water, and lubricating oils. Textile cover provides added abrasion resistance

**Tube** - High-oil resistant synthetic rubber, ARPM Class A

**Reinforcement** - Braided synthetic fiber

**Cover** - Black, oil, resistant textile braid, ARPM Class B

**Branding:** - FLEXTAL GRIP LOC J5-08 NON CONDUCTIVE 1/2" 300 PSI WP

### Temperature:

-40°C to +99°C (-40°F to +210°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs./ft.	Reel Lengths
J5-04	¼	0.50	300	0.08	500'
J5-05	⅝	0.56	300	0.09	500'
J5-06	⅜	0.64	300	0.11	500'
J5-08	½	0.75	300	0.13	500'
J5-10	⅝	0.91	300	0.19	500'
J5-12	¾	1.03	300	0.21	500'

\*Call for additional fittings, lengths and assemblies.



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## AR50 WOLVERINE HD AIR



**Application:**

Engineered to withstand the harsh environments of construction, agriculture, foundries, and other industrial and mining applications. Non-conductive, minimum electrical resistance greater than (1) megaohm per inch of hose length at 1,000 Volts DC.

**Construction:**

**Tube** - Black, nitrile; ARPM Class A (High-Oil Resistance)

**Reinforcement** - Multiple aramid plies

**Cover** - Yellow, specially formulated, super tough, smooth finish, MSHA approved

**Branding** - FLEXTAL AR50-100 1" (25.4mm) WOLVERINE NON CONDUCTIVE 500 PSI MAX WP FLAME RESISTANT MSHA

**Temperature Range:**

-40°C to +100°C (-40°F to +212°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
AR50-025	¼	0.57	500	0.12	750'
AR50-038	⅜	0.75	500	0.19	600'
AR50-050	½	0.89	500	0.25	500'
AR50-075	¾	1.22	500	0.42	400'
AR50-100	1	1.51	500	0.57	300'
AR50-125	1¼	1.78	500	0.73	250'
AR50-150	1½	2.09	500	0.86	200'
AR50-200	2	2.64	500	1.21	100'

\*Call for additional fittings, lengths and assemblies.

## AR60 WIRE REINFORCED AIR



**Application:**

High-pressure air service for mining, construction, rental, and industrial use. More resistant to external abuse than textile air hose.

**Construction:**

**Tube** - Black, oil mist resistant synthetic rubber

**Reinforcement** - Layers of high-tensile steel wire

**Cover** - Yellow, perforated, gouge resistant synthetic rubber with red stripe

**Branding** - FLEXTAL AR60-200 2" WIRE REINFORCED AIR HOSE 600 PSI MAX WP

**Temperature Range:**

-40°C to +85°C (-40°F to +185°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
AR60-050	½	0.91	600	0.34	50'/100'
AR60-075	¾	1.16	600	0.42	50'/100'
AR60-100	1	1.42	600	0.59	50'/100'
AR60-125	1¼	1.69	600	0.75	50'/100'
AR60-150	1½	1.97	600	1.03	50'/100'
AR60-200	2	2.60	600	1.69	50'/100'
AR60-250	2½	3.15	600	2.25	50'/100'
AR60-300	3	3.70	600	3.02	50'/100'
AR60-400	4	4.80	600	4.54	50'/100'

\*Call for additional fittings, lengths and assemblies.

**Temperature/Pressure De-Rating Schedule:**

Note that AR60 hose assemblies are not rated at full working pressure with elevated working temperatures. Use the schedule below to determine Maximum Allowable Working Pressure per Operating Temperature.

Temperature (F°)	Max PSI
77°	600
104°	522
131°	464
158°	406
185°	348



WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

## AR60HT High Temp Reinforced Air



### Application:

High pressure air service for mining, construction, rental and industrial use with elevated temperatures. More resistant to external abuse than textile air hose.

### Construction:

**Tube** - Black; oil mist resistant synthetic rubber

**Reinforcement** - Layers of high tensile steel wire

**Cover** - Yellow, perforated, gouge resistant synthetic rubber with black stripe

**Branding** - FLEXTRAL AR60-200HT 2" WIRE REINFORCED HIGH TEMP. AIR HOSE 600 PSI 250F / 120C MAX

### Temperature Range:

-35°C to +120°C (-31°F to +250°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
AR60-050HT	½	0.91	750	0.34	50'/100'
AR60-075HT	¾	1.14	750	0.44	50'/100'
AR60-100HT	1	1.44	750	0.65	50'/100'
AR60-125HT	1¼	1.81	650	1.03	50'/100'
AR60-150HT	1½	2.05	650	1.40	50'/100'
AR60-200HT	2	2.52	600	1.42	50'/100'
AR60-250HT	2½	3.15	600	2.57	50'/100'
AR60-300HT	3	3.72	600	4.41	50'/100'
AR60-400HT	4	4.88	400	4.70	50'/100'

\*Call for additional fittings, lengths and assemblies.

## AR61 WIRE REINFORCED AIR HIGH-TEMP./HEAVY-DUTY



### Application:

High-temperature, heavy-duty, high-pressure air hose for mining, construction, rental, and industrial use. Extreme abrasion resistance for the toughest applications. AR61 hose does not have a Temperature/Pressure de-rating schedule; the hose is rated for 100% of the maximum working pressure throughout the temperature range of the assembly.

### Construction:

**Tube** - Black, oil and heat resistant synthetic rubber

**Reinforcement** - Layers of plied steel wire

**Cover** - Black, perforated, abrasion, weather, and oil resistant carboxylated nitrile

**Branding** - FLEXTRAL AR61-100 1" WIRE REINFORCED AIR - HEAVY DUTY 1000 PSI MAX WP


### Temperature Range:

-30°C to +130°C (-22°F to +275°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
AR61-100	1	1.50	1,000	0.63	50'/100'
AR61-125	1¼	1.77	800	0.77	50'/100'
AR61-150	1½	2.18	600	1.43	50'/100'
AR61-200	2	2.74	600	1.85	50'/100'
AR61-250	2½	3.19	600	2.24	50'/100'
AR61-300	3	3.75	600	2.96	50'/100'
AR61-400	4	4.94	500	4.82	50'/100'

\*Call for additional fittings, lengths and assemblies.



 **WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>





## AR61B WIRE REINFORCED XTREME AIR HD



**Application:**

High-temperature, heavy-duty, high-pressure air hose for mining, construction, rental, and industrial hose. Extreme abrasion resistance for the toughest applications. AR61B hose does not have a Temperature/Pressure de-rating schedule; the hose is rated for 100% of the maximum working pressure throughout the temperature range of the assembly.

**Construction:**

**Tube** - Black, oil and heat resistant synthetic rubber

**Reinforcement** - High-tensile steel wire braiding

**Cover** - Black, perforated, abrasion, weather, and oil resistant carboxylated nitrile

**Branding** - FLEXTAL AR61B-200 2" XTREME AIR HD 600 PSI MAX WP 250F/120C MAX

**Temperature Range:**

-40°C to +120°C (-40°F to +250°F)



Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
AR61B-200	2	2.74	600	2.25	100'
AR61B-300	3	3.74	600	2.92	100'
AR61B-400	4	4.94	600	4.46	100'

\*Call for additional fittings, lengths and assemblies.

## AR65 EXTRA SERVICE 400 PSI AIR



**Application:**

A premium quality mining, construction, and industrial hose. For air and water applications.

**Construction:**

**Tube** - Oil mist resistant, black synthetic rubber

**Reinforcement** - Synthetic yarn

**Cover** - Yellow, abrasion resistant rubber with blue stripe


**Branding** - FLEXTAL AR65-100 1" EXTRA SERVICE AIR/WATER 400 PSI MAX WP

**Temperature Range:**

-35°C to +82°C (-38°F to +180°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
AR65-050	½	0.95	400	0.31	50'/100'
AR65-075	¾	1.26	400	0.41	50'/100'
AR65-100	1	1.54	400	0.61	50'/100'
AR65-125	1¼	1.89	400	0.81	50'/100'
AR65-150	1½	2.12	400	0.91	50'/100'
AR65-200	2	2.63	400	1.20	50'/100'
AR65-250	2½	3.18	400	1.80	50'/100'
AR65-300	3	3.70	400	1.92	50'/100'
AR65-400	4	4.80	400	2.49	50'/100'

\*Call for additional fittings, lengths and assemblies.

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## AR67 CONTRACTORS 300 PSI AIR



**Application:**

For construction, mining, and industrial use. For air and water applications.

**Construction:**

**Tube** - Oil mist resistant, black synthetic rubber

**Reinforcement** - Synthetic yarn

**Cover** - Yellow, abrasion resistant rubber with green stripe

**Branding** - FLEXTRAL AR67-100 1" CONTRACTORS AIR/WATER 300 PSI MAX WP

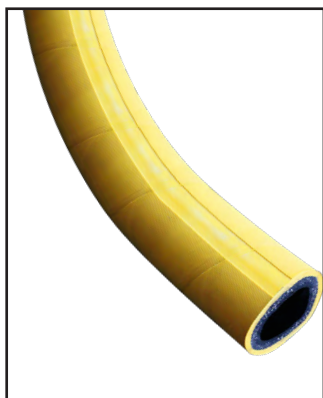
**Temperature Range:**

-35°C to +82°C (-30°F to +180°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
AR67-075	3/4	1.18	300	0.40	50'/100'
AR67-100	1	1.46	300	0.50	50'/100'
AR67-150	1 1/2	2.05	300	0.93	50'/100'
AR67-200	2	2.56	300	1.12	50'/100'
AR67-250	2 1/2	3.11	300	1.55	50'/100'
AR67-300	3	3.62	300	1.86	50'/100'

\*Call for additional fittings, lengths and assemblies.

## MS20 YELLOW MINE SPRAY AIR/WATER



**Application:**

Flextral Mine Spray hose is ideal for the toughest air and water applications wherever there is a severe application in mining, underground mining, oilfields, steel mills, and scrap yards.

**Construction:**

**Tube** - Synthetic rubber

**Reinforcement** - High-tensile steel wire

**Cover** - Yellow, perforated synthetic rubber; MSHA approved

**Branding** - FLEXTRAL 1/2" HEAVY DUTY AIR/WATER 1000 PSI WP MSHA

**Temperature Range:**

-35°C to +100°C (-31°F to +212°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
MS20-050	1/2	0.91	1,000	6.02	0.37	50'/100'
MS20-075	3/4	1.10	1,000	8.98	0.41	50'/100'
MS20-100	1	1.34	1,000	11.81	0.55	50'/100'
MS20-125	1 1/4	1.63	1,000	15.12	0.74	50'/100'
MS20-150	1 1/2	1.89	1,000	17.95	0.95	50'/100'
MS20-200	2	2.44	1,000	24.00	1.47	50'/100'

\*Call for additional fittings, lengths and assemblies.

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## BA10 BREATHING AIR TRANSFER



### Application:

A premium quality breathing air hose specifically formulated to meet type **C & CE NIOSH 42 CFR PART 84, TABLE 8 REQUIREMENTS WHEN USING APPROVED FLEXTRAL HOSE COUPLINGS.**

- Indoor/Outdoor air service
- Paint Spray Booths
- Sandblasting, Insulation

### Construction:

**Tube** - Black, odorless nitrile rubber

**Reinforcement** - High-tensile strength yarn

**Cover** - Black, nitrile rubber

### Temperature Range:

-29°C to +82°C (-20°F to +180°F)

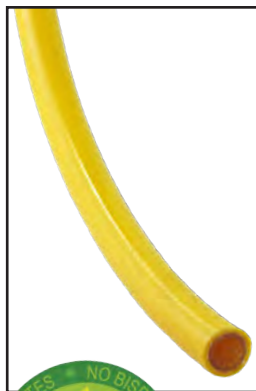
Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
BA10-025	1/4	0.63	300	0.14	750'
BA10-038	3/8	0.70	300	0.16	750'
BA10-075	3/4	1.20	300	0.33	500'
BA10-200	2	2.50	200	1.10	50'

- 42CFR PART 84, TABLE 8, NONCOLLAPSIBILITY - **PASS**
- NIOSH RCT-ASR-STP-0100: Hose and Coupling Retention - **PASS**
- NIOSH RCT-ASR-STP-0101: Leak Testing - **PASS**
- NIOSH RCT-ASR-STP-0102: Hose Kink Resistance - **PASS**
- NIOSH RCT-ASR-STP-0103: Gasoline permeation test - **PASS**

NOTICE - NIOSH only certifies complete breathing respirators and does not issue certification on individual components, such as hoses and couplings

\*Call for additional fittings, lengths and assemblies.

## BA12 NON-TOXIC PVC BREATHING AIR



### Application:

Flextral BA12 series Air Breathing hose is made from premium grade FDA Compliant, Phthalate Free materials. The compound has been carefully selected for low-taste and odor properties, superior flexibility and clarity.

- Surface supplied air portable diving kits
- NIOSH Type C respirator air supply lines
- Paint spray booth breathing lines
- Breathing air service indoor or outdoor where a flexible but heavy-duty supply line is required

### Construction:

**Tube** - Extruded from FDA approved, non-toxic, low-odor, Phthalate free, flexible PVC compound

- Clear, 70 Shore A durometer for improved flexibility

**Reinforcement** - High-tensile strength yarn

**Cover** - Weather, UV and abrasion resistant PVC designed to protect the reinforcement

### Temperature:

-26°C to +65°C (-15°F to +150°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
BA12-025YW	1/4	0.53	300	0.14	300'/500'
BA12-038YW	3/8	0.68	250	0.14	300'/500'
BA12-075YW	1/2	0.80	250	0.22	300'/500'

\*YW indicates the color Yellow. For other colors change the suffix to the following: BK- Black.

\*Call for additional fittings, lengths and assemblies.



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## AR11 BLACK CONTRACTOR GRADE GENERAL PURPOSE AIR/WATER



**Application:**

Air, water, agricultural spray solutions, and other diluted chemicals. Good resistance to heat, abrasion, and weathering.

**Construction:**

**Tube** - Black, limited oil resistant synthetic rubber

**Reinforcement** - Synthetic yarn

**Cover** - Smooth black, abrasion, and weather resistant rubber

**Branding** - FLEXTRAL AR11-050 1/2" (12.7mm) GENERAL PURPOSE AIR/WATER 200 PSI MAX WP

**Temperature Range:**

-29°C to +80°C (-20°F to +180°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Reel Lengths
AR11-025	1/4	0.50	200	0.11	600'
AR11-031	5/16	0.58	200	0.14	600'
AR11-038	3/8	0.67	200	0.18	600'
AR11-050	1/2	0.81	200	0.23	600'
AR11-063	5/8	0.97	200	0.31	400'
AR11-075	3/4	1.12	200	0.41	400'
AR11-100	1	1.44	200	0.63	250'
AR11-125	1 1/4	1.73	200	0.82	200' Coils
AR11-150	1 1/2	2.08	200	1.20	200' Coils
AR11-200	2	2.60	200	1.57	200' Coils

## AR11 BLACK GENERAL PURPOSE AIR/WATER 200 PSI ASSEMBLIES



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
AR11-050GHTXF025-BR	1/2" x 25'	M-GHT	F-GHT	Crimp
AR11-050GHTXF050-BR	1/2" x 50'	M-GHT	F-GHT	Crimp
AR11-050GHTXF075-BR	1/2" x 75'	M-GHT	F-GHT	Crimp
AR11-050GHTXF100-BR	1/2" x 100'	M-GHT	F-GHT	Crimp
AR11-063GHTXF025-BR	5/8" x 25'	M-GHT	F-GHT	Crimp
AR11-063GHTXF050-BR	5/8" x 50'	M-GHT	F-GHT	Crimp
AR11-063GHTXF075-BR	5/8" x 75'	M-GHT	F-GHT	Crimp
AR11-063GHTXF100-BR	5/8" x 100'	M-GHT	F-GHT	Crimp
AR11-075GHTXF025-BR	3/4" x 25'	M-GHT	F-GHT	Crimp
AR11-075GHTXF050-BR	3/4" x 50'	M-GHT	F-GHT	Crimp
AR11-075GHTXF075-BR	3/4" x 75'	M-GHT	F-GHT	Crimp
AR11-075GHTXF100-BR	3/4" x 100'	M-GHT	F-GHT	Crimp

\*Call for additional fittings, lengths and assemblies.

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## AR07 SOAKER HOSE



**Application:**

Flexible for easier handling and winding. Consistent soaking throughout. Weeping pores disperse water directly to plant's roots.

Part No.	Hose Length	End 1	End 2	Attaching Method
AR07-050BKGHTXF050-BR	½" x 50'	M-GHT	F-GHT	Crimp

## AR09 SPRINKLER HOSE



**Application:**

Flexible, lightweight for easier handling. Slow, even spray reduces run-off, conserving water.

Part No.	Hose Length	End 1	End 2	Attaching Method
AR09-050BKGHTXF050-BR	½" x 50'	M-GHT	F-GHT	Crimp

## AR12 MEDIUM DUTY GARDEN HOSE



**Application:**

Economical medium-weight watering hose for light-duty watering applications.

Part No.	Hose Size & Length	End 1	End 2	Attaching Method
AR12-063GNGHTXF050-BR	⅝" x 50'	M-GHT	F-GHT	Crimp

## AR16 HEAVY DUTY GARDEN HOSE




**Application:**

Economical heavy-duty watering hose for heavy-duty watering applications.

Part No.	Hose Size & Length	End 1	End 2	Attaching Method
AR16-063GNGHTXF050-BR	⅝" x 50'	M-GHT	F-GHT	Crimp
AR16-063GNGHTXF100-BR	⅝" x 100'	M-GHT	F-GHT	Crimp



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## AR17 INDUSTRIAL GRADE WATER HOSE 175 PSI



**Application:**

Industrial grade water hose for use in commercial, construction, farm and wash down applications. Specially formulated thermoplastic allows a rubber-like look and feel with less weight.

**Construction:**

**Tube** - Specially formulated TPR

**Reinforcement** - High-tensile textile cord

**Cover** - Specially formulated TPR, ARPM Class B

**Temperature Range:**

-26°C to +65°C (-15°F to +150°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
AR17-063RD	5/8	0.89	175	0.19	500'
AR17-075RD	3/4	1.06	175	0.27	600'

\*RD indicates the color Red. For other colors add the suffix to the part number as follows:  
BK - Black.

## AR17 INDUSTRIAL GRADE WATER HOSE ASSEMBLIES



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
AR17-063RDGHTXF050-BR	5/8" x 50'	M-GHT	F-GHT	Crimp
AR17-063RDGHTXF100-BR	5/8" x 100'	M-GHT	F-GHT	Crimp
AR17-075RDGHTXF050-BR	3/4" x 50'	M-GHT	F-GHT	Crimp
AR17-075RDGHTXF075-BR	3/4" x 75'	M-GHT	F-GHT	Crimp
AR17-075RDGHTXF100-BR	3/4" x 100'	M-GHT	F-GHT	Crimp

\*RD indicates the color Red. For other colors add the suffix to the part number as follows:  
BK - Black.

## AR25 INDUSTRIAL GRADE AIR/WATER HOSE 300 PSI



**Application:**

Industrial grade water hose for use in commercial, construction, farm and wash down applications. Specially formulated thermoplastic allows a rubber-like look and feel with less weight.

**Construction:**

**Tube** - Specially formulated PVC

**Reinforcement** - High-tensile textile cord

**Cover** - Specially formulated PVC, ARPM Class B

**Temperature Range:**

-26°C to +65°C (-15°F to +150°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
AR25-050RD	1/2	0.79	300	0.13	500'

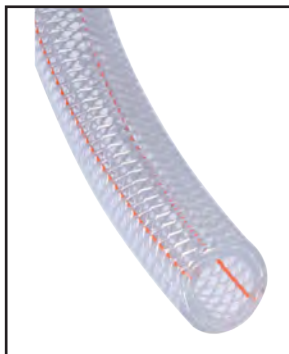
## AR25 INDUSTRIAL GRADE AIR/WATER HOSE ASSEMBLIES



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
AR25-050RDGHTXF050-BR	1/2" x 50'	M-GHT	F-GHT	Crimp
AR25-050RDGHTXF075-BR	1/2" x 75'	M-GHT	F-GHT	Crimp
AR25-050RDGHTXF100-BR	1/2" x 100'	M-GHT	F-GHT	Crimp

**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

## AR42 INDUSTRIAL PVC CLEARBRAID



**Application:**

A standard wall, yarn reinforced PVC hose suitable for a wide variety of industrial and agricultural applications from moving water to light chemical solutions.

**Construction:**

**Tube** - Clear PVC  
**Reinforcement** - High-tensile strength yarn  
**Cover** - Clear PVC

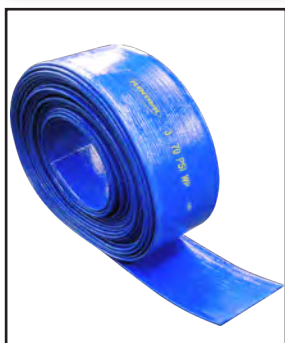
**Temperature Range:**

-4°C to +65°C (+25°F to +150°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI @70°F	Weight lbs / ft	Standard Lengths
AR42-025	¼	0.38	140	0.04	300'
AR42-038	⅜	0.57	140	0.07	300'
AR42-050	½	0.71	130	0.11	300'
AR42-075	¾	0.98	85	0.17	300'
AR42-100	1	1.26	70	0.26	200'
AR42-125	1¼	1.57	55	0.42	100'
AR42-150	1½	1.85	55	0.43	100'
AR42-200	2	2.40	45	0.83	100'

\*Call for additional fittings, lengths and assemblies.

## WA10 BLUE PVC LAYFLAT



**Application:**

A standard duty hose for portable pump and irrigation use. Hose folds flat for ease of coiling and handling. Common applications are rental, construction, mining, dewatering, agricultural, and marine service.

**Construction:**

**Tube** - PVC  
**Reinforcement** - Woven synthetic yarn  
**Cover** - Blue, PVC  
**Branding** - FLEXTRAL WA10-200 80 PSI MAX WP

**Temperature Range:**

-21°C to +54°C (-5°F to +130°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
WA10-100	1	1.11	85	0.11	300'
WA10-125	1¼	1.36	85	0.12	300'
WA10-150	1½	1.61	85	0.14	300'
WA10-200	2	2.11	80	0.20	300'
WA10-250	2½	2.62	70	0.27	300'
WA10-300	3	3.13	70	0.34	300'
WA10-400	4	4.13	70	0.48	300'
WA10-600	6	6.14	50	0.77	300'
WA10-800	8	8.15	50	1.21	300'
WA10-1000	10	10.12	35	1.81	100'
WA10-1200	12	12.13	30	1.95	100'

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## WA10 BLUE PVC LAYFLAT ASSEMBLIES



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
WA10-200CE050-AL	2" x 50'	Fem Cam Alum.	Male Cam Alum.	Preformed Band
WA10-300CE050-AL	3" x 50'	Fem Cam Alum.	Male Cam Alum.	Preformed Band
WA10-400CE050-AL	4" x 50'	Fem Cam Alum.	Male Cam Alum.	Preformed Band
WA10-600CE050-AL	6" x 50'	Fem Cam Alum.	Male Cam Alum.	Preformed Band
WA10-800CE050-AL-__*	8" x 50'	Fem Cam Alum. - 1 or 2	Male Cam Alum. - 1 or 2	Preformed Band

\*Specify (N)=Type 1 for NECO Style or (P)=Type 2 for PT Style. See Page 174 for Detailed Type Explanation.



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
WA10-150MFIPT050-AL	1½" x 50'	M-NPSM	F-NPSM	Preformed Band
WA10-200MFIPT050-AL	2" x 50'	M-NPSM	F-NPSM	Preformed Band
WA10-300MFIPT050-AL	3" x 50'	M-NPSM	F-NPSM	Preformed Band
WA10-400MFIPT050-AL	4" x 50'	M-NPSM	F-NPSM	Preformed Band

\*Call for additional fittings, lengths and assemblies.

## WA12 GRAY PVC LAYFLAT



**Application:**

A standard duty hose for portable pump and irrigation use. Hose folds flat for ease of coiling and handling. Common applications are rental, construction, mining, agricultural, and marine service.

**Construction:**

**Tube** - PVC

**Reinforcement** - Woven synthetic yarn

**Cover** - Gray, PVC

**Temperature Range:**

-23°C to +66°C (-10°F to +150°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
WA12-150	1½	1.73	90	0.19	300'
WA12-200	2	2.22	80	0.24	300'
WA12-250	2½	2.79	60	0.36	300'
WA12-300	3	3.31	50	0.39	300'
WA12-400	4	4.33	45	0.65	300'
WA12-600	6	6.38	35	1.07	300'



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## WA12 GRAY PVC LAYFLAT ASSEMBLIES



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
WA12-150CE050-AL	1½" X 50'	Fem Cam Alum.	Male Cam Alum.	Preformed Band
WA12-200CE050-AL	2" x 50'	Fem Cam Alum.	Male Cam Alum.	Preformed Band
WA12-300CE050-AL	3" x 50'	Fem Cam Alum.	Male Cam Alum.	Preformed Band
WA12-400CE050-AL	4" x 50'	Fem Cam Alum.	Male Cam Alum.	Preformed Band
WA12-600CE050-AL	6" x 50'	Fem Cam Alum.	Male Cam Alum.	Preformed Band



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
WA12-150MFIPT050-AL	1½" X 50'	M-NPSM	F-NPSM	Preformed Band
WA12-200MFIPT050-AL	2" x 50'	M-NPSM	F-NPSM	Preformed Band
WA12-300MFIPT050-AL	3" x 50'	M-NPSM	F-NPSM	Preformed Band
WA12-400MFIPT050-AL	4" x 50'	M-NPSM	F-NPSM	Preformed Band

\*Call for additional fittings, lengths and assemblies.

## WA14 HD BRICK RED PVC LAYFLAT



### Application:

A heavy-duty hose for portable pump and irrigation use. Hose folds flat for ease of coiling and handling. Common applications are rental, construction, mining, agricultural and marine service.

### Construction:

**Tube** - PVC

**Reinforcement** - Woven synthetic yarn

**Cover** - Brick Red, PVC

**Branding** - FLEXTRAL WA14-300 150 PSI MAX WP

### Temperature Range:

-21°C to +54°C (-5°F to +130°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
WA14-200	2	2.21	150	0.28	300'
WA14-300	3	3.25	150	0.48	300'
WA14-400	4	4.35	150	0.76	300'
WA14-600	6	6.36	115	1.17	300'
WA14-800	8	8.35	75	1.54	300'

**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## WA14 HD BRICK RED PVC LAYFLAT ASSEMBLIES



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
WA14-200CE050-AL	2" x 50'	Fem Cam Alum.	Male Cam Alum.	Preformed Band
WA14-300CE050-AL	3" x 50'	Fem Cam Alum.	Male Cam Alum.	Preformed Band
WA14-400CE050-AL	4" x 50'	Fem Cam Alum.	Male Cam Alum.	Preformed Band
WA14-600CE050-AL	6" x 50'	Fem Cam Alum.	Male Cam Alum.	Preformed Band
WA14-800CE050-AL-__*	8" x 50'	Fem Cam Alum. - 1 or 2	Male Cam Alum. - 1 or 2	Preformed Band

\*Specify (N)=Type 1 for NECO Style or (P)=Type 2 for PT Style. See Page 174 for Detailed Type Explanation.



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
WA14-200MFIPT050-AL	2" x 50'	M-NPSM	F-NPSM	Preformed Band
WA14-300MFIPT050-AL	3" x 50'	M-NPSM	F-NPSM	Preformed Band
WA14-400MFIPT050-AL	4" x 50'	M-NPSM	F-NPSM	Preformed Band

\*Call for additional fittings, lengths and assemblies.

## WA20 BLACK IRON RIVER STANDARD DUTY



### Application:

A premium high-pressure PVC/nitrile layflat hose, suited ideally for mining, construction, agriculture, water jetting, dewatering, industrial wash down, submersible pump discharge applications. This hose has excellent abrasion and weathering resistance and limited oil resistance.

### Construction:

**Tube** - Black, abrasion and oil resistant nitrile / PVC

**Reinforcement** - One-piece through the weave

**Cover** - Black, ribbed abrasion, weather and oil resistant nitrile / PVC

**Branding** - FLEXTAL WA20-200 2" 300 PSI MAX WP

### Temperature Range:

-46°C to +80°C (-50°F to +176°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
WA20-200	2	2.25	300	0.31	50'
WA20-300	3	3.35	250	0.54	50'
WA20-400	4	4.35	200	0.72	50'/300'
WA20-600	6	6.39	150	1.17	50'/300'
WA20-800	8	8.45	150	2.08	50'/300'
WA20-1000	10	10.47	150	2.68	50'
WA20-1200	12	12.47	150	3.15	50'



WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## WA20 BLACK IRON RIVER ASSEMBLIES



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
WA20-200CEX025-AL	2" x 25'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
WA20-200CEX050-AL	2" x 50'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
WA20-300CEX025-AL	3" x 25'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
WA20-300CEX050-AL	3" x 50'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
WA20-400CEX025-AL	4" x 25'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
WA20-400CEX050-AL	4" x 50'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
WA20-600CEX025-AL	6" x 25'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
WA20-600CEX050-AL	6" x 50'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
WA20-800CEX025-AL-__*	8" x 25'	Fem Cam Alum. - 1 or 2	Male Cam Alum. - 1 or 2	Crimp Sleeve
WA20-800CEX050-AL-__*	8" x 50'	Fem Cam Alum. - 1 or 2	Male Cam Alum. - 1 or 2	Crimp Sleeve

\*Specify (N)=Type 1 for NECO Style or (P)=Type 2 for PT Style. See Page 174 for Detailed Type Explanation.



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
WA20-400BSIX025-B	4" x 25'	Ball - Type B	Socket - Type B	Crimp Sleeve
WA20-400BSIX050-B	4" x 50'	Ball - Type B	Socket - Type B	Crimp Sleeve
WA20-600BSIX025-B	6" x 25'	Ball - Type B	Socket - Type B	Crimp Sleeve
WA20-600BSIX050-B	6" x 50'	Ball - Type B	Socket - Type B	Crimp Sleeve
WA20-800BSIX025-B	8" x 25'	Ball - Type B	Socket - Type B	Crimp Sleeve
WA20-800BSIX050-B	8" x 50'	Ball - Type B	Socket - Type B	Crimp Sleeve

\*Call for additional fittings, lengths and assemblies.

## WA22 YELLOW IRON RIVER STANDARD DUTY



**Application:**

A premium high-pressure PVC/nitrile layflat hose, suited ideally for mining, construction, agriculture, water jetting, dewatering, industrial wash down, submersible pump discharge applications. This hose has excellent abrasion and weathering resistance and limited oil resistance.

**Construction:**

**Tube** - Yellow, abrasion and oil resistant nitrile / PVC

**Reinforcement** - One-piece through the weave

**Cover** - Yellow, ribbed abrasion, weather and oil resistant nitrile / PVC

**Branding** - FLEXTRAL WA22-200 2" 300 PSI MAX WP

**Temperature Range:**

-46°C to +80°C (-50°F to +176°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
WA22-200	2	2.25	300	0.31	50'/100'
WA22-300	3	3.35	250	0.53	50'/100'
WA22-400	4	4.35	200	0.72	50'/100'
WA22-600	6	6.39	150	1.17	50'/100'
WA22-800	8	8.47	150	2.08	50'/100'

**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## WA22 YELLOW IRON RIVER ASSEMBLIES



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
WA22-200CEX050-AL	2" x 50'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
WA22-300CEX050-AL	3" x 50'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
WA22-400CEX050-AL	4" x 50'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
WA22-600CEX050-AL	6" x 50'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
WA22-800CEX050-AL-__*	8" x 50'	Fem Cam Alum. - 1 or 2	Male Cam Alum. - 1 or 2	Crimp Sleeve

\*Specify (N)=Type 1 for NECO Style or (P)=Type 2 for PT Style. See Page 174 for Detailed Type Explanation.



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
WA22-200BSIX050-B	2" x 50'	Ball - Type B	Socket - Type B	Crimp Sleeve
WA22-300BSIX050-B	3" x 50'	Ball - Type B	Socket - Type B	Crimp Sleeve
WA22-400BSIX050-B	4" x 50'	Ball - Type B	Socket - Type B	Crimp Sleeve
WA22-600BSIX050-B	6" x 50'	Ball - Type B	Socket - Type B	Crimp Sleeve
WA22-800BSIX050-B	8" x 50'	Ball - Type B	Socket - Type B	Crimp Sleeve

\*Call for additional fittings, lengths and assemblies.

## WA30 HD "CHILLER" & RUBBER DISCHARGE



**Application:**

An excellent hose in HVAC Chiller application. For use on construction sites and general water service. High-pressure allows pumping against greater vertical heads.

**Construction:**

**Tube** - Black rubber

**Reinforcement** - Multiple plies of synthetic yarn

**Cover** - Black, weather and high-abrasion resistant rubber

**Branding** - FLEXTRAL WA30-300 3" HEAVY DUTY "CHILLER" 150 PSI MAX WP

**Temperature Range:**

-30°C to +85°C (-22°F to +185°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
WA30-150	1½	1.77	150	0.49	50'/100'
WA30-200	2	2.32	150	0.66	50'/100'
WA30-250	2½	2.81	150	0.86	50'/100'
WA30-300	3	3.38	150	1.35	50'/100'
WA30-400	4	4.37	150	1.52	50'/100'
WA30-500	5	5.40	150	2.25	50'/100'
WA30-600	6	6.46	150	2.84	50'/100'
WA30-800	8	8.63	150	4.40	50'/100'
WA30-1000	10	10.55	150	5.78	50'
WA30-1200	12	12.50	100	6.75	50'



WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## WA30 HD RUBBER DISCHARGE ASSEMBLIES



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
WA30-200CEX025-BR	2" x 25'	Fem Cam Brass	Male Cam Brass	Crimp Sleeve
WA30-200CEX050-BR	2" x 50'	Fem Cam Brass	Male Cam Brass	Crimp Sleeve
WA30-300CEX025-BR	3" x 25'	Fem Cam Brass	Male Cam Brass	Crimp Sleeve
WA30-300CEX050-BR	3" x 50'	Fem Cam Brass	Male Cam Brass	Crimp Sleeve
WA30-400CEX025-BR	4" x 25'	Fem Cam Brass	Male Cam Brass	Crimp Sleeve
WA30-400CEX050-BR	4" x 50'	Fem Cam Brass	Male Cam Brass	Crimp Sleeve

\*\*Standard 6" - 8" camlocks are not suitable for HVAC chiller systems. Call about the Flextral Heavy Duty 150PSI camlock solution.



Aluminum

Part No.	Hose Size & Length	End 1	End 2	Attaching Method
WA30-300GGX025-AL	3" x 25'	Alum. Grooved End	Alum. Grooved End	Crimp Sleeve
WA30-300GGX050-AL	3" x 50'	Alum. Grooved End	Alum. Grooved End	Crimp Sleeve
WA30-400GGX025-AL	4" x 25'	Alum. Grooved End	Alum. Grooved End	Crimp Sleeve
WA30-400GGX050-AL	4" x 50'	Alum. Grooved End	Alum. Grooved End	Crimp Sleeve
WA30-600GGX025-AL	6" x 25'	Alum. Grooved End	Alum. Grooved End	Crimp Sleeve
WA30-600GGX050-AL	6" x 50'	Alum. Grooved End	Alum. Grooved End	Crimp Sleeve

\*Call for additional fittings, lengths and assemblies.

## WA31 HD RUBBER DISCHARGE - 4 PLY



### Application:

For use on construction sites and general water service. High-pressure allows pumping against greater vertical heads.

### Construction:

**Tube** - Black rubber

**Reinforcement** - Four plies of synthetic yarn

**Cover** - Black, weather high-abrasion resistant rubber

**Branding** - FLEXTRAL WA31-300 3" HEAVY DUTY WATER DISCHARGE 250 PSI MAX WP

### Temperature Range:

-30°C to +85°C (-22°F to +185°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
WA31-200	2	2.48	250	0.95	50'/100'
WA31-300	3	3.47	250	1.40	50'/100'
WA31-400	4	4.49	200	1.84	50'/100'
WA31-600	6	6.50	200	2.89	50'/100'
WA31-800	8	8.62	200	4.34	50'/100'
WA31-1000	10	10.63	150	5.38	50'/100'
WA31-1200	12	12.64	150	6.31	50'/100'

WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>





## WA31 HD RUBBER DISCHARGE ASSEMBLIES



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
WA31-200CEX020-AL	2" x 20'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
WA31-200CEX025-AL	2" x 25'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
WA31-200CEX050-AL	2" x 50'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
WA31-300CEX020-AL	3" x 20'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
WA31-300CEX025-AL	3" x 25'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
WA31-300CEX050-AL	3" x 50'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
WA31-400CEX020-AL	4" x 20'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
WA31-400CEX025-AL	4" x 25'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
WA31-400CEX050-AL	4" x 50'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
WA31-600CEX020-AL	4" X 20'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
WA31-600CEX025-AL	6" x 25'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
WA31-600CEX050-AL	6" x 50'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
WA31-800CEX020-AL-__*	8" X 20'	Fem Cam Alum. - 1 or 2	Male Cam Alum. - 1 or 2	Crimp Sleeve
WA31-800CEX025-AL-__*	8" x 25'	Fem Cam Alum. - 1 or 2	Male Cam Alum. - 1 or 2	Crimp Sleeve
WA31-800CEX050-AL-__*	8" x 50'	Fem Cam Alum. - 1 or 2	Male Cam Alum. - 1 or 2	Crimp Sleeve

\*Specify (N)=Type 1 for NECO Style or (P)=Type 2 for PT Style. See Page 174 for Detailed Type Explanation.

\*Call for additional fittings, lengths and assemblies.

## WA35 SINGLE JACKET - INDUSTRIAL MILL DISCHARGE



**Application:**

Heavy-duty pump discharge and washdown hose, lightweight, and layflat. Not approved for fire fighting service.

**Construction:**

**Tube** - Synthetic rubber blend

**Cover** - Single jacket, white 100% polyester

**Temperature Range:**

-17°C to +82°C (0°F to +180°F)

Part No.	I.D. Inches	Max W.P. PSI	Burst Pressure Max PSI	Weight lbs / ft	Standard Lengths
WA35-150	1½	150	450	0.14	50'/100'
WA35-200	2	150	450	0.20	50'/100'
WA35-250	2½	150	450	0.26	50'/100'
WA35-300	3	150	450	0.32	50'/100'
WA35-400	4	150	450	0.50	50'/100'
WA35-600	6	150	450	1.08	50'



WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

## WA35 INDUSTRIAL MILL DISCHARGE ASSEMBLIES

### Single Jacket Mill Hose



Part No.	Hose Size & Length	Fitting Material	End 1	End 2	Attaching Method
WA35-150NPSE050-AL	1½" x 50'	Alum.	M-NPSH	F-NPSH	Expanded
WA35-150NSTE050-AL	1½" x 50'	Alum.	M-NST	F-NST	Expanded
WA35-200NPSE050-AL	2" x 50'	Alum.	M-NPSH	F-NPSH	Expanded
WA35-200CE050-AL	2" x 50'	Alum.	Male Cam	Fem Cam	Preformed Band
WA35-200CE100-AL	2" x 100'	Alum.	Male Cam	Fem Cam	Preformed Band
WA35-250NPSE050-AL	2½" x 50'	Alum.	M-NPSH	F-NPSH	Expanded
WA35-250NSTE050-AL	2½" x 50'	Alum.	M-NST	F-NST	Expanded
WA35-300MFIPT050-AL	3" x 50'	Alum.	M-NPSH	F-NPSH	Preformed Band
WA35-300CE050-AL	3" x 50'	Alum.	Male Cam	Fem Cam	Preformed Band
WA35-300CE100-AL	3" x 100'	Alum.	Male Cam	Fem Cam	Preformed Band
WA35-400MFIPT050-AL	4" x 50'	Alum.	M-NPSH	F-NPSH	Preformed Band

\*Call for additional fittings, lengths and assemblies.

## WA38 DOUBLE JACKET - INDUSTRIAL MILL DISCHARGE

#### Application:

Heavy-duty pump discharge and washdown hose, lightweight, and layflat. Not approved for fire fighting service.

#### Construction:

**Tube** - Synthetic rubber blend

**Cover** - Double jacket white 100% polyester

#### Temperature Range:

-17°C to +82°C (0°F to +180°F)



Part No.	I.D. Inches	Max W.P. PSI	Burst Pressure Max PSI	Weight lbs / ft	Standard Lengths
WA38-150	1½	250	750	0.26	50'/100'
WA38-200	2	250	750	0.36	50'/100'
WA38-250	2½	250	750	0.47	50'/100'



WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

## WA38 INDUSTRIAL MILL DISCHARGE ASSEMBLIES

### Double Jacket Mill Hose



Part No.	Hose Size & Length	Fitting Material	End 1	End 2	Attaching Method
WA38-150NPSE050-AL	1½" x 50'	Alum.	M-NPSH	F-NPSH	Expanded
WA38-150NSTE050-AL	1½" x 50'	Alum.	M-NST	F-NST	Expanded
WA38-200NPSE050-AL	2" x 50'	Alum.	M-NPSH	F-NPSH	Expanded
WA38-200NPT050-AL	2" x 50'	Alum.	M-NST	F-NST	Expanded
WA38-250NPSE050-AL	2½" x 50'	Alum.	M-NPSH	F-NPSH	Expanded
WA38-250NSTE050-AL	2½" x 50'	Alum.	M-NST	F-NST	Expanded

\*Call for additional fittings, lengths and assemblies.

## WA50 HD RUBBER SUCTION & DISCHARGE



### Application:

A heavy-duty rubber suction hose for construction, quarries, mining, dewatering, heavy-duty applications, and general use. Suitable for full vacuum.

### Construction:

**Tube** - Black, smooth rubber

**Reinforcement** - Synthetic yarn with a wire helix

**Cover** - Black, weather, and abrasion resistant rubber

**Branding** - FLEXTRAL WA50-200 2" RUBBER WATER SUCTION HOSE 150 PSI MAX WP

### Temperature Range:

-32°C to +85°C (-25°F to +185°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches	Vacuum Inches Hg.	Weight lbs / ft	Standard Lengths
WA50-075	¾	1.22	150	3.0	29	0.48	100'
WA50-100	1	1.38	150	6.0	29	0.49	100'
WA50-125	1¼	1.72	150	6.0	29	0.75	100'
WA50-150	1½	1.89	150	6.5	29	0.80	100'
WA50-200	2	2.44	150	8.0	29	1.10	100'
WA50-250	2½	2.95	150	10.0	29	1.75	100'
WA50-300	3	3.46	150	12.0	29	2.24	100'
WA50-400	4	4.53	150	18.0	29	2.79	20'/100'
WA50-500	5	5.68	150	26.0	29	3.25	100'
WA50-600	6	6.54	150	31.0	29	5.75	20'/100'
WA50-800	8	8.82	150	42.0	29	6.59	20'/100'
WA50-1000	10	10.91	150	50.0	29	10.25	20'
WA50-1200	12	12.87	150	60.0	29	13.50	20'

\*Call for additional fittings, lengths and assemblies.



WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

## WA50 RUBBER SUCTION & DISCHARGE ASSEMBLIES



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
WA50-200CEX020-AL	2" x 20'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
WA50-300CEX020-AL	3" x 20'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
WA50-400CEX020-AL	4" x 20'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
WA50-600CEX010-AL	6" x 10'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
WA50-600CEX020-AL	6" x 20'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
WA50-800CEX010-AL-__*	8" x 10'	Fem Cam Alum. - 1 or 2	Male Cam Alum. - 1 or 2	Crimp Sleeve
WA50-800CEX020-AL-__*	8" x 20'	Fem Cam Alum. - 1 or 2	Male Cam Alum. - 1 or 2	Crimp Sleeve

\*Specify (N)=Type 1 for NECO Style or (P)=Type 2 for PT Style. See Page 174 for Detailed Type Explanation.



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
WA50-400BSIX020-B	4" x 20'	Ball - Type B	Socket - Type B	Crimp Sleeve
WA50-600BSIX010-B	6" x 10'	Ball - Type B	Socket - Type B	Crimp Sleeve
WA50-600BSIX020-B	6" x 20'	Ball - Type B	Socket - Type B	Crimp Sleeve
WA50-800BSIX010-B	8" x 10'	Ball - Type B	Socket - Type B	Crimp Sleeve
WA50-800BSIX020-B	8" x 20'	Ball - Type B	Socket - Type B	Crimp Sleeve
WA50-1000BSOX010-__*	10" x 10'	Ball - A or B	Socket - A or B	Crimp Sleeve
WA50-1000BSOX020-__*	10" x 20'	Ball - A or B	Socket - A or B	Crimp Sleeve
WA50-1200BSOX010-__*	12" x 10'	Ball - A or B	Socket - A or B	Crimp Sleeve
WA50-1200BSOX020-__*	12" x 20'	Ball - A or B	Socket - A or B	Crimp Sleeve

\*Specify (A)=Type A for Anfor Style or (B)=Type B for Bauer Style.



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
WA50-400FLX010-CS-1	4" x 10'	150# Fixed Flange	150# Floating Flange	Crimp Sleeve
WA50-400FLX020-CS-1	4" x 20'	150# Fixed Flange	150# Floating Flange	Crimp Sleeve
WA50-600FLX010-CS-1	6" x 10'	150# Fixed Flange	150# Floating Flange	Crimp Sleeve
WA50-600FLX020-CS-1	6" x 20'	150# Fixed Flange	150# Floating Flange	Crimp Sleeve
WA50-800FLX010-CS-1	8" x 10'	150# Fixed Flange	150# Floating Flange	Crimp Sleeve
WA50-800FLX020-CS-1	8" x 20'	150# Fixed Flange	150# Floating Flange	Crimp Sleeve
WA50-1000FLX010-CS-1	10" x 10'	150# Fixed Flange	150# Floating Flange	Crimp Sleeve
WA50-1000FLX020-CS-1	10" x 20'	150# Fixed Flange	150# Floating Flange	Crimp Sleeve
WA50-1200FLX010-CS-1	12" x 10'	150# Fixed Flange	150# Floating Flange	Crimp Sleeve
WA50-1200FLX020-CS-1	12" x 20'	150# Fixed Flange	150# Floating Flange	Crimp Sleeve



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
WA50-400BSCX020-B	4" x 20'	Ball - Type B CRIMP-X	Socket - Type B CRIMP-X	Crimp Sleeve
WA50-600BSCX010-B	6" x 10'	Ball - Type B CRIMP-X	Socket - Type B CRIMP-X	Crimp Sleeve
WA50-600BSCX020-B	6" x 20'	Ball - Type B CRIMP-X	Socket - Type B CRIMP-X	Crimp Sleeve
WA50-800BSCX010-B	8" x 10'	Ball - Type B CRIMP-X	Socket - Type B CRIMP-X	Crimp Sleeve
WA50-800BSCX020-B	8" x 20'	Ball - Type B CRIMP-X	Socket - Type B CRIMP-X	Crimp Sleeve

\*See Page 182 for CRIMP-X Benefits.

\*Call for additional fittings, lengths and assemblies.



WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

## WA60 GREEN PVC SUCTION



### Application:

An economical and flexible suction hose for construction pumps, septic, agricultural, and general water service.

### Construction:

**Tube** - Green PVC

**Reinforcement** - PVC helix

**Cover** - Green PVC

### Temperature Range:

-11°C to +60°C (-13°F to +140°F)

Part No.	I.D. Inches	O.D. Inches	Vacuum Inches Hg. @70°F	Max W.P. PSI @70°F	Weight lbs / ft	Standard Lengths
WA60-075	¾	0.95	Full	86	0.16	100'
WA60-100	1	1.25	Full	86	0.26	100'
WA60-125	1¼	1.52	Full	79	0.37	100'
WA60-150	1½	1.81	Full	72	0.44	100'
WA60-200	2	2.38	Full	72	0.74	100'
WA60-250	2½	2.92	Full	72	1.01	100'
WA60-300	3	3.41	Full	62	1.21	100'
WA60-400	4	4.50	Full	55	2.01	100'
WA60-500	5	5.55	28	33	2.45	100'
WA60-600	6	6.67	28	33	3.37	50'/100'
WA60-800	8	8.93	28	28	5.80	20'
WA60-1000	10	10.93	28	25	8.75	20'

## WA60 GREEN PVC SUCTION ASSEMBLIES



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
WA60-200CE020-AL	2" x 20'	Fem Cam Alum.	Male Cam Alum.	Preformed Band
WA60-300CE020-AL	3" x 20'	Fem Cam Alum.	Male Cam Alum.	Preformed Band
WA60-400CE020-AL	4" x 20'	Fem Cam Alum.	Male Cam Alum.	Preformed Band
WA60-600CE010-AL	6" x 10'	Fem Cam Alum.	Male Cam Alum.	Preformed Band
WA60-600CE020-AL	6" x 20'	Fem Cam Alum.	Male Cam Alum.	Preformed Band
WA60-800CE010-AL-__*	8" x 10'	Fem Cam Alum. - 1 or 2	Male Cam Alum. - 1 or 2	Preformed Band
WA60-800CE020-AL-__*	8" x 20'	Fem Cam Alum. - 1 or 2	Male Cam Alum. - 1 or 2	Preformed Band



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
WA60-200CM020-AL	2" x 20'	Fem Cam Alum.	M-NPT	Preformed Band
WA60-300CM020-AL	3" x 20'	Fem Cam Alum.	M-NPT	Preformed Band
WA60-400CM020-AL	4" x 20'	Fem Cam Alum.	M-NPT	Preformed Band
WA60-600CM010-AL	6" x 10'	Fem Cam Alum.	M-NPT	Preformed Band
WA60-600CM020-AL	6" x 20'	Fem Cam Alum.	M-NPT	Preformed Band
WA60-800CM010-AL-__*	8" x 10'	Fem Cam Alum. - 1 or 2	M-NPT	Preformed Band
WA60-800CM020-AL-__*	8" x 20'	Fem Cam Alum. - 1 or 2	M-NPT	Preformed Band

\*Specify (N)=Type 1 for NECO Style or (P)=Type 2 for PT Style. See Page 174 for Detailed Type Explanation.  
\*Call for additional fittings, lengths and assemblies.



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## WA62 CLEAR PVC SUCTION



**Application:**

Construction, mining, agricultural, and quarry supply lines. Wellpoint systems, agri-foam systems, liquid fertilization, and septic tanks.

**Construction:**

**Tube** - Clear PVC

**Reinforcement** - PVC helix

**Cover** - Smooth, clear PVC

**Temperature Range:**

-11°C to +60°C (-13°F to +140°F)

Part No.	I.D. Inches	O.D. Inches	Vacuum Inches Hg. @70°F	Max W.P. PSI @70°F	Weight lbs / ft	Standard Lengths
WA62-075	¾	0.95	Full	86	0.19	100'
WA62-100	1	1.25	Full	86	0.26	100'
WA62-125	1¼	1.44	Full	65	0.35	100'
WA62-150	1½	1.83	Full	65	0.48	100'
WA62-200	2	2.24	Full	60	0.66	100'
WA62-250	2½	2.80	Full	60	0.87	100'
WA62-300	3	3.31	Full	50	1.24	100'
WA62-400	4	4.39	Full	45	1.85	100'
WA62-500	5	5.55	28	33	2.42	100'
WA62-600	6	6.67	28	33	3.39	100'
WA62-800	8	8.93	28	28	5.97	20'
WA62-1000	10	11.56	28	25	9.73	20'

## WA62 CLEAR PVC SUCTION ASSEMBLIES



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
WA62-200CE020-AL	2" x 20'	Fem Cam Alum.	Male Cam Alum.	Preformed Band
WA62-300CE020-AL	3" x 20'	Fem Cam Alum.	Male Cam Alum.	Preformed Band
WA62-400CE020-AL	4" x 20'	Fem Cam Alum.	Male Cam Alum.	Preformed Band
WA62-600CE010-AL	6" x 10'	Fem Cam Alum.	Male Cam Alum.	Preformed Band
WA62-600CE020-AL	6" x 20'	Fem Cam Alum.	Male Cam Alum.	Preformed Band
WA62-800CE010-AL-__*	8" x 10'	Fem Cam Alum. - 1 or 2	Male Cam Alum. - 1 or 2	Preformed Band
WA62-800CE020-AL-__*	8" x 20'	Fem Cam Alum. - 1 or 2	Male Cam Alum. - 1 or 2	Preformed Band



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
WA62-200CM020-AL	2" x 20'	Fem Cam Alum.	M-NPT	Preformed Band
WA62-300CM020-AL	3" x 20'	Fem Cam Alum.	M-NPT	Preformed Band
WA62-400CM020-AL	4" x 20'	Fem Cam Alum.	M-NPT	Preformed Band
WA62-600CM010-AL	6" x 10'	Fem Cam Alum.	M-NPT	Preformed Band
WA62-600CM020-AL	6" x 20'	Fem Cam Alum.	M-NPT	Preformed Band
WA62-800CM010-AL-__*	8" x 10'	Fem Cam Alum. - 1 or 2	M-NPT	Preformed Band
WA62-800CM020-AL-__*	8" x 20'	Fem Cam Alum. - 1 or 2	M-NPT	Preformed Band

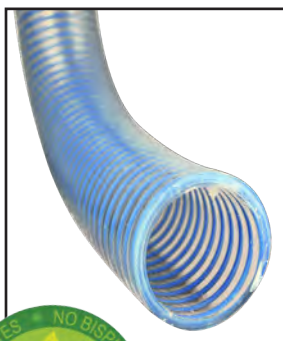
\*Specify (N)=Type 1 for NECO Style or (P)=Type 2 for PT Style. See Page 174 for Detailed Type Explanation.

\*Call for additional fittings, lengths and assemblies.



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## WA64 COLD-TUFF PVC SUCTION



### Application:

Construction pumps, septic tank, marine pump-out service, mining, and quarry use. Provides sub zero flexibility and increased abrasion resistance compared to standard PVC.

### Construction:

**Tube** - Clear, low-temp PVC

**Reinforcement** - Blue PVC helix

**Cover** - Clear, low temp PVC with excellent weather and abrasion resistance

### Temperature Range:

-40°C to +65°C (-40°F to +150°F)

Part No.	I.D. Inches	O.D. Inches	Vacuum Inches Hg. @70°F	Max W.P. PSI @70°F	Weight lbs / ft	Standard Lengths
WA64-075	¾	1.01	Full	115	0.19	100'
WA64-100	1	1.26	Full	90	0.22	100'
WA64-125	1¼	1.56	Full	90	0.36	100'
WA64-150	1½	1.79	Full	90	0.48	100'
WA64-200	2	2.35	Full	90	0.62	100'
WA64-250	2½	2.87	Full	70	0.87	100'
WA64-300	3	3.43	Full	65	1.23	100'
WA64-400	4	4.49	Full	55	1.83	100'
WA64-500	5	5.57	28	45	2.42	100'
WA64-600	6	6.69	28	40	3.36	100'



## WA64 COLD-TUFF ASSEMBLIES



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
WA64-200CE020-AL	2" x 20'	Fem Cam Alum.	Male Cam Alum.	Preformed Band
WA64-300CE020-AL	3" x 20'	Fem Cam Alum.	Male Cam Alum.	Preformed Band
WA64-400CE020-AL	4" x 20'	Fem Cam Alum.	Male Cam Alum.	Preformed Band
WA64-600CE010-AL	6" x 10'	Fem Cam Alum.	Male Cam Alum.	Preformed Band
WA64-600CE020-AL	6" x 20'	Fem Cam Alum.	Male Cam Alum.	Preformed Band



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
WA64-200CM020-AL	2" x 20'	Fem Cam Alum.	M-NPT	Preformed Band
WA64-300CM020-AL	3" x 20'	Fem Cam Alum.	M-NPT	Preformed Band
WA64-400CM020-AL	4" x 20'	Fem Cam Alum.	M-NPT	Preformed Band
WA64-600CM010-AL	6" x 10'	Fem Cam Alum.	M-NPT	Preformed Band
WA64-600CM020-AL	6" x 20'	Fem Cam Alum.	M-NPT	Preformed Band

\*Call for additional fittings, lengths and assemblies.



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## WA65 KANALINE™ SR FLEX-LINE



### Application:

Heavy-duty, extra flexible suction and discharge hose for use in water service, dewatering, fish suction, general service, and rental/construction. **\*Hose is recommended for Suction Application ONLY**

### Construction:

**Tube** - Flexible PVC

**Reinforcement** - Synthetic yarn polyester braid

**Cover** - Flexible, orange PVC helix

### Temperature Range:

-25°C to +60°C (-13°F to +140°F)

Pressure Loss Rate  
(% deduct from Catalog rate)

\*\* Temp rate means, hose temperature.  
Not atmosphere or material to transfer.

Working Pressure Loss	
104°F	-40%
122°F	-55%
140°F	-75%

Vacuum Pressure Loss	
104°F	-10%
113°F	-25%
122°F	-40%
140°F	-65%

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI @70°F	Bend Radius Inches @70°F	Vacuum Inches Hg. @70°F	Weight lbs / ft	Standard Lengths
WA65-150	1½	2.10	110	2.5	28.0	0.47	100'
WA65-200	2	2.60	100	4.0	28.0	0.70	100'
WA65-300	3	3.70	100	6.3	28.0	1.13	100'
WA65-400	4	4.78	75	7.1	28.0	1.74	100'
WA65-500	5	6.10	70	9.0	28.0	2.90	100'
WA65-600	6	7.17	70	10.2	28.0	3.88	100'
WA65-800	8	9.50	60	15.7	28.0	5.54	20'
WA65-1000	10	11.63	40	24.8	28.0	8.68	20'
WA65-1200	12	13.80	28	45.0	25.0	10.30	20'

## WA65 KANALINE SR FLEX-LINE ASSEMBLIES



Type B



Type A

Part No.	Hose Size & Length	End 1	End 2	Attaching Method
WA65-400BSIX020-B	4" x 20'	Ball - Type B	Socket - Type B	Crimp Sleeve
WA65-600BSIX010-B	6" x 10'	Ball - Type B	Socket - Type B	Crimp Sleeve
WA65-600BSIX020-B	6" x 20'	Ball - Type B	Socket - Type B	Crimp Sleeve
WA65-800BSIX010-B	8" x 10'	Ball - Type B	Socket - Type B	Crimp Sleeve
WA65-800BSIX020-B	8" x 20'	Ball - Type B	Socket - Type B	Crimp Sleeve
WA65-1000BSOX010-__*	10" x 10'	Ball - A or B	Socket - A or B	Crimp Sleeve
WA65-1000BSOX020-__*	10" x 20'	Ball - A or B	Socket - A or B	Crimp Sleeve
WA65-1200BSOX010-__*	12" x 10'	Ball - A or B	Socket - A or B	Crimp Sleeve
WA65-1200BSOX020-__*	12" x 20'	Ball - A or B	Socket - A or B	Crimp Sleeve

\*Specify (A)=Type A for Anfor Style or (B)=Type B for Bauer Style.



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
WA65-200CESC020-AL	2" x 20'	Fem Cam Alum.	Male Cam Alum.	Spiral Bolt Clamp
WA65-300CESC020-AL	3" x 20'	Fem Cam Alum.	Male Cam Alum.	Spiral Bolt Clamp
WA65-400CESC020-AL	4" x 20'	Fem Cam Alum.	Male Cam Alum.	Spiral Bolt Clamp
WA65-600CESC010-AL	6" x 10'	Fem Cam Alum.	Male Cam Alum.	Spiral Bolt Clamp
WA65-600CESC020-AL	6" x 20'	Fem Cam Alum.	Male Cam Alum.	Spiral Bolt Clamp
WA65-800CESC010-AL-__*	8" x 10'	Fem Cam Alum. - 1 or 2	Male Cam Alum. - 1 or 2	Spiral Bolt Clamp
WA65-800CESC020-AL-__*	8" x 20'	Fem Cam Alum. - 1 or 2	Male Cam Alum. - 1 or 2	Spiral Bolt Clamp

\*Specify (N)=Type 1 for NECO Style or (P)=Type 2 for PT Style. See Page 174 for Detailed Type Explanation.

\*Call for additional fittings, lengths and assemblies.

**!** WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

## WA75 LIQUID SUCTION & PUMP HOSE

**Application:**

Improved double helix design allows for superior flexibility and durability even in sub-zero temperatures. Designed to provide maximum abrasion protection for sewer jetting hose, expensive camera and utility inspection equipment. Recommended for light-bulk material handling applications.

**Construction:**

**Tube** - Yellow polyethylene

**Cover** - Black and yellow, tough abrasion resistant polyethylene

**Ends** - Cuffed Ends

**Temperature Range:**

-40°C to +60°C (-40°F to +140°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches @70°F	Vacuum Inches Hg. @70°F	Weight lbs / ft	Standard Lengths
WA75-150	1½	2.17	26	3.7	29.0	0.35	25'/50'
WA75-200	2	2.76	17	5.0	29.0	0.65	25'/50'
WA75-300	3	4.06	12	8.0	29.0	1.20	25'/50'
WA75-400	4	5.15	7	9.5	29.0	1.60	25'/50'



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## WA80 EPDM FLEX-TUFF



**Application:**

Lightweight and flexible with abrasion resistant cover for septic handling, liquid waste, slurries, liquid and dry chemicals, agricultural liquid, dry fertilizers, grains, seeds, water transfer, mining, construction, rental equipment, sewer cleaning, and plant maintenance.

**Construction:**

**Tube** - Black, smooth EPDM

**Cover** - Convoluted, green, red, and blue polyethylene helix

**Temperature Range:**

-40°C to +71°C (-40°F to +160°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI @70°F	Bend Radius Inches @70°F	Vacuum Inches Hg. @70°F	Weight lbs / ft	Standard Lengths
WA80-100	1	1.40	65	2.0	29	0.28	100'
WA80-125	1¼	1.63	60	3.0	29	0.33	100'
WA80-150	1½	1.93	50	3.0	29	0.44	100'
WA80-200	2	2.51	50	5.0	29	0.67	100'
WA80-250	2½	3.07	45	5.5	29	0.95	100'
WA80-300	3	3.60	45	7.0	29	1.14	100'
WA80-400	4	4.70	40	11.5	29	1.84	100'
WA80-600	6	6.85	30	20.0	28	3.07	100'

\*Green is standard. For other colors add the suffix to the part number as follows:

BL - Blue, RD - Red.

Some colors are non-stock and may require minimum runs.

## WA80 EPDM FLEX-TUFF ASSEMBLIES



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
WA80-200CE020-AL	2" x 20'	Fem Cam Alum.	Male Cam Alum.	Preformed Band
WA80-300CE020-AL	3" x 20'	Fem Cam Alum.	Male Cam Alum.	Preformed Band
WA80-400CE020-AL	4" x 20'	Fem Cam Alum.	Male Cam Alum.	Preformed Band
WA80-600CE010-AL	6" x 10'	Fem Cam Alum.	Male Cam Alum.	Preformed Band
WA80-600CE020-AL	6" x 20'	Fem Cam Alum.	Male Cam Alum.	Preformed Band

\*Green is standard. Please specify if another color is needed. Some colors are non-stock and may require minimum runs.



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
WA80-200CE020-PP	2" x 20'	Fem Cam Poly.	Male Cam Poly.	Preformed Band
WA80-300CE020-PP	3" x 20'	Fem Cam Poly.	Male Cam Poly.	Preformed Band
WA80-400CE020-PP	4" x 20'	Fem Cam Poly.	Male Cam Poly.	Preformed Band

\*Green is standard. Please specify if another color is needed. Some colors are non-stock and may require minimum runs.

\*Call for additional fittings, lengths and assemblies.

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## WA33 HIGH-PRESSURE JETTING HOSE



**Application:**

WA33 is a heavy-duty jetting hose for slurries and water. High-pressure, high-volume flow for cleanup and washdown applications. The SBR cover is resistant to abrasion and weathering.

**Construction:**

**Tube** - Black SBR

**Reinforcement** - Multiple textile plies

**Cover** - Black SBR, wrapped finish

**Branding** - FLEXTRAL WA33-300 3" HEAVY DUTY WATER DISCHARGE 800 PSI MAX WP

**Temperature Range:**

-40°C to +82°C (-40°F to +180°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
WA33-200	2	2.80	800	1.13	100'
WA33-250	2½	3.30	800	1.37	100'
WA33-300	3	3.80	800	2.42	100'
WA33-400	4	4.80	800	3.10	100'
WA33-600	6	7.00	500	5.23	100'

\*Call for additional fittings, lengths and assemblies.



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## WA90 GREEN PAPERMILL WASHDOWN



**Application:**

Suitable for hot or cold water washdown service in paper mills. Hose incorporates an integral built-in tapered rubber nozzle.

**Construction:**

**Tube** - Black, synthetic, heat resistant rubber

**Reinforcement** - Multiple layers of moisture resistant yarn

**Cover** - Green, abrasion resistant, synthetic rubber

**Branding** - FLEXTRAL WA90-100 1" PAPERMILL WASHDOWN HOSE 250 PSI MAX WP

**Temperature Range:**

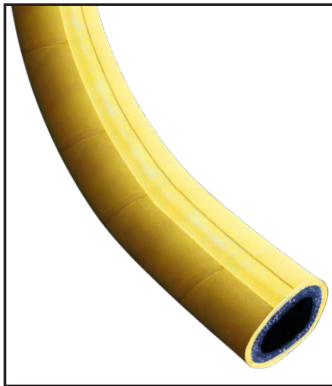
-35°C to +80°C (-31°F to +176°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
WA90-075GN	¾	1.26	250	0.40	50'
WA90-100GN	1	1.50	250	0.56	50'

\*GN indicates the color Green. For other colors add the suffix to the part number as follows: WH - White.

\*Call for additional fittings, lengths and assemblies.

## MS20 YELLOW MINE SPRAY HOSE



**Application:**

Flextral Mine Spray hose is ideal for the toughest air and water applications wherever there is a severe application in mining, underground mining, oilfields, steel mills, and scrap yards.

**Construction:**

**Tube** - Synthetic rubber

**Reinforcement** - High-tensile steel wire

**Cover** - Yellow, perforated synthetic rubber; MSHA approved

**Branding** - FLEXTRAL 1/2" HEAVY DUTY AIR/WATER 1000 PSI WP MSHA

**Temperature Range:**

-35°C to +100°C (-31°F to +212°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
MS20-050	½	0.91	1,000	6.02	0.37	50'/100'
MS20-075	¾	1.10	1,000	8.98	0.41	50'/100'
MS20-100	1	1.34	1,000	11.81	0.55	50'/100'
MS20-125	1¼	1.63	1,000	15.12	0.74	50'/100'
MS20-150	1½	1.89	1,000	17.95	0.95	50'/100'
MS20-200	2	2.44	1,000	24.00	1.47	50'/100'

\*Call for additional fittings, lengths and assemblies.



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## WA95 LONG LENGTH FAST DELIVERY HOSE



**Application:**

Made for heavy-duty service under the toughest conditions. Used to transport oil and gas, irrigation and sludge disposal, agriculture and mining operations. Designed for hydraulic fracture water transfer, processed water/fresh water transfer. Best solution for fluid delivery and transport, and abrasive materials transport. Flexible pipeline, even in extreme terrain.

**Construction:**

**Tube/Cover** - One-piece through the weave polyurethane (PU)

**Reinforcement** - 100% high-tenacity polyester yarn

**Temperature Range:**

-50°C to 75°C (-58°F to + 167°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
WA95-800	8	8.30	175	2.02	660'
WA95-1000	10	10.32	175	2.96	660'
WA95-1200	12	12.33	150	3.30	660'

## WA96 HD LONG LENGTH FAST DELIVERY HOSE



**Application:**

Made for heavy-duty service under the toughest conditions. Used to transport oil and gas, irrigation and sludge disposal, agriculture and mining operations. Designed for hydraulic fracture water transfer, processed water/fresh water transfer. Best solution for fluid delivery and transport, and abrasive materials transport. Flexible pipeline, even in extreme terrain.

**Construction:**

**Tube/Cover** - One-piece through the weave TPU

**Reinforcement** - High-tenacity polyester inner woven jacket

**Temperature Range:**

-50°C to 80°C (-58°F to + 176°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
WA96-1000	10	10.36	200	3.08	660'
WA96-1200	12	12.46	200	4.30	660'

## WA95 & WA96 HOSE COUPLINGS



Part No.	I.D. Inches
CNG-800	8
CNG-1000	10
CNG-1200	12



Part No.	I.D. Inches
FRV-800-AL	8
FRV-1000-AL	10
FRV-1200-AL	12

Note: Does Not Include Victaulic Connecting Clamp

\*Call for additional fittings, lengths and assemblies.



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## WB40 AQUA-BOSS WATER BLAST HOSE



**Application:**

A very high-constant pressure hose for water scaling systems and is suitable for passage of water and aqueous solutions.

**Construction:**

**Tube** - Black, synthetic oil resistant rubber

**Reinforcement** - Four spirals of high-tensile steel wire

**Cover** - Black, abrasion, weather and oil resistant nitrile rubber

**Branding** - FLEXTRAL WB40-08 AQUA-BOSS 1/2" WATERBLAST 10000 PSI MAX WP 2.5:1 SAFETY FACTOR

**Temperature Range:**

-40°C to +80°C (-40°F to +176°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Ferrule	Insert
WB40-06	3/8	0.80	10,000	7.09	0.50	WB4-06F	WB06-06MP
WB40-08	1/2	0.91	10,000	8.61	0.63	WB4-08F	WB08-08MP
WB40-12	3/4	1.24	10,000	11.02	1.10	WB4-12F	WB12-12MP
WB40-16	1	1.50	10,000	14.00	1.46	WB4-16F	WB16-16MP

\*Factory Assembly Only.

\*Fully tested and certified per EN 1829-2.

## WB50 AQUA-BOSS XP WATER BLAST HOSE



**Application:**

An extra high-constant pressure hose for water scaling systems and is suitable for passage of water and aqueous solutions.

**Construction:**

**Tube** - Black, synthetic oil resistant rubber

**Reinforcement** - Four spirals of high-tensile steel wire

**Cover** - Black, abrasion, weather and oil resistant nitrile rubber

**Branding** - FLEXTRAL WB50-08 AQUA-BOSS XP 1/2" WATERBLAST 16000 PSI MAX WP 2.5:1 SAFETY FACTOR

**Temperature Range:**

-40°C to +80°C (-40°F to +176°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Ferrule	Insert
WB50-04	1/4	0.67	18,000	4.92	0.41	WB4-04F	WB04-04MP
WB50-06	3/8	0.81	18,000	5.91	0.56	WB4-06F	WB06-06MP
WB50-08	1/2	0.95	16,000	10.50	0.65	WB4-08F	WB08-08MP
WB50-12	3/4	1.25	15,000	11.02	1.14	WB4-12F	WB12-12MP

\*Factory Assembly Only.

\*Fully tested and certified per EN 1829-2.



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## WB60 AQUA-BOSS XP2 WATER BLAST HOSE



**Application:**

An extremely high-constant pressure hose for water scaling systems and is suitable for passage of water and aqueous solutions.

**Construction:**

**Tube** - Black, synthetic oil resistant rubber

**Reinforcement** - Six spirals of high-tensile steel wire

**Cover** - Black, abrasion, weather and oil resistant nitrile rubber

**Branding** - FLEXTRAL WB60-08 AQUA-BOSS XP2 1/2" WATERBLAST 20000 PSI MAX WP 2.5:1 SAFETY FACTOR

**Temperature Range:**

-40°C to +80°C (-40°F to +176°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Ferrule	Insert
WB60-08	1/2	1.13	20,000	9.84	1.26	WB6-08F	WB08-08TMF

\*Factory Assembly Only.

\*Fully tested and certified per EN 1829-2.

## WATER BLAST COUPLINGS

**Ferrule**



Part No.	Size
WB4-04F	1/4"
WB4-06F	3/8"
WB4-08F	1/2"
WB4-12F	3/4"
WB4-16F	1"
*WB6-08F	1/2"

\*For use with WB60-08 only.

**Male Stem**



Part No.	Size	Thread Size
WB04-04MP	1/4"	1/4" M- NPT
WB06-06MP	3/8"	3/8" M- NPT
WB08-08MP	1/2"	1/2" M- NPT
WB12-12MP	3/4"	3/4" M- NPT
WB16-16MP	1"	1" M- NPT

**Female Type M Stem**



Part No.	Size	Thread Size
WB08-08TMF	1/2"	1"-12" UNF



WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>





## QWB - WATER BLAST PUSH TO CONNECT



**Application:**

Water Blast, high-pressure wireline grease injection; water jetting.

**Features:**

- Easy push to connect design
- Nitrile seals
- Chrome plated hardened steel

**Interchangeability:**

Dixon EA, Parker WB, Aeroquip FD69, Snap-Tite 56 Series

**Temperature Range:**

-40°C to +121°C (-40°F to +250°F)

Part No.	Size	Thread Size	Max W.P. PSI	Type
QWBC86FP	1/2"	3/8" F- NPT	10,000	Coupler
QWBC88FP	1/2"	1/2" F- NPT	10,000	Coupler

Part No.	Size	Thread Size	Max W.P. PSI	Type
QWBN86FP	1/2"	3/8" F- NPT	10,000	Nipple
QWBN88FP	1/2"	1/2" F- NPT	10,000	Nipple

## QWBS - WATER BLAST SCREW TO CONNECT



**Application:**

Water Blast, high-pressure wireline grease injection; water jetting.

**Features:**

- Screws to connect design, allows higher working pressure
- Nitrile seals
- 316 Stainless steel construction

**Interchangeability:**

DNP CRS Series

**Temperature Range:**

-40°C to +121°C (-40°F to +250°F)

Part No.	Size	Thread Size	Max W.P. PSI	Type
QWBS88FPS6	1/2"	1/2" F- NPT	15,000	Coupler

Part No.	Size	Thread Size	Max W.P. PSI	Type
QWBSN88FPS6	1/2"	1/2" F- NPT	15,000	Nipple

**⚠ WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

## PROJET<sup>®</sup> 4,200 PSI PRESSURE WASHER HOSE



### Application:

Pressure wash equipment. All of the hose assemblies shown here are factory made with male NPT end fittings and bend restrictors at each end. One male end is a swivel to prevent hose twisting. **NOT FOR STEAM SERVICE.**

### Construction:

**Tube** - Seamless, black synthetic rubber

**Reinforcement** - One braid of high-tensile steel wire

**Cover** - Wrapped or Smooth abrasion and weather resistant synthetic rubber, Black, Blue or Gray

**Packaging** - 50', 100', 150', 200' in Bulk Reels

### Temperature Range:

-40°C to +121°C/149°C Intermittent (-40°F to +250°F/300°F Intermittent)

Part No.	Cover	I.D. Inches	O.D. Inches	Max W.P. PSI	Min Bend Radius	Weight lbs / ft
PJ4-06BK	Wrapped	3/8	0.59	4,200	2.6	0.15
PJ4-06GY	Wrapped	3/8	0.59	4,200	2.6	0.15
PJ4-04BLM	Smooth	1/4	0.48	4,000	2.9	0.12
PJ4-06BLM	Smooth	3/8	0.59	4,200	2.6	0.15

\*BK indicates the color Black. For other colors add the suffix to the part number as follows:  
GY - Gray, BLM - Blue (Smooth Only).

## PROJET<sup>®</sup> 4,200 PSI ASSEMBLIES

Part No.	Color	Cover	Hose Size & Length	End 1	End 2	Attaching Method
PJ4-06BK-050C	Black	Wrapped	3/8" x 50'	3/8" M-NPT Rigid	3/8" M-NPT Swivel	Crimp
PJ4-06BK-100C	Black	Wrapped	3/8" x 100'	3/8" M-NPT Rigid	3/8" M-NPT Swivel	Crimp
PJ4-06GY-050C	Gray	Wrapped	3/8" x 50'	3/8" M-NPT Rigid	3/8" M-NPT Swivel	Crimp
PJ4-06GY-100C	Gray	Wrapped	3/8" x 100'	3/8" M-NPT Rigid	3/8" M-NPT Swivel	Crimp
PJ4-06BLM-050C	Blue	Smooth	3/8" x 50'	3/8" M-NPT Rigid	3/8" M-NPT Swivel	Crimp
PJ4-06BLM-100C	Blue	Smooth	3/8" x 100'	3/8" M-NPT Rigid	3/8" M-NPT Swivel	Crimp

\*4,200 PSI assemblies come with Blue bend restrictors.

\*Call for additional fittings, lengths and assemblies.



 **WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

## ULTRAJET® 4,000 PSI OIL/FAT RESISTANT PRESSURE WASHER HOSE



**Application:**

Pressure wash equipment where maximum abrasion or oil/fat resistance is required.  
**NOT FOR STEAM SERVICE.**

**Construction:**

**Tube** - Seamless, black synthetic rubber

**Reinforcement** - One braid of high-tensile steel wire

**Cover** - Yellow, smooth ultra abrasion resistant synthetic rubber, ARPM Class A

**Packaging** - 50', 100', 150', 200' in Bulk Reels

**Temperature Range:**

-40°C to +121°C/149°C Intermittent (-40°F to +250°F/300°F Intermittent)

Part No.	Cover	I.D. Inches	O.D. Inches	Max W.P. PSI	Min Bend Radius	Weight lbs / ft
UJ4-06YWM	Smooth	3/8	0.61	4,000	3.5	0.24

## ULTRAJET® 4,000 PSI ASSEMBLIES



Part No.	Color	Cover	Hose Size & Length	End 1	End 2	Attaching Method
UJ4-06YWM-050C	Yellow	Smooth	3/8" x 50'	3/8" M-NPT Rigid	3/8" M-NPT Swivel	Crimp
UJ4-06YWM-100C	Yellow	Smooth	3/8" x 100'	3/8" M-NPT Rigid	3/8" M-NPT Swivel	Crimp

\*4,000 PSI assemblies come with Blue bend restrictors.

\*Call for additional fittings, lengths and assemblies.



WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## SUPERJET® 6,000 PSI PRESSURE WASHER HOSE



### Application:

Pressure wash equipment. All of the hose assemblies shown here are factory made with male NPT end fittings and bend restrictors at each end. One male end is a swivel to prevent hose twisting. **NOT FOR STEAM SERVICE.**

### Construction:

**Tube** - Seamless, black synthetic rubber

**Reinforcement** - Two braids of high-tensile steel wire

**Cover** - Wrapped or Smooth abrasion and weather resistant synthetic rubber, Black, Blue or Gray

**Packaging** - 50', 100', 150', 200' in Bulk Reels

### Temperature Range:

-40°C to +121°C/149°C Intermittent (-40°F to +250°F/300°F Intermittent)

Part No.	Cover	I.D. Inches	O.D. Inches	Max W.P. PSI	Min Bend Radius	Weight lbs / ft
SJ6-06BK	Wrapped	3/8"	0.67	6,000	3.5	0.29
SJ6-06GY	Wrapped	3/8"	0.67	6,000	3.5	0.29
SJ6-06BLM	Smooth	3/8"	0.67	6,000	3.5	0.29

\*BK indicates the color Black. For other colors add the suffix to the part number as follows: GY - Gray, BLM - Blue.

## SUPERJET® 6,000 PSI ASSEMBLIES

Part No.	Color	Cover	Hose Size & Length	End 1	End 2	Attaching Method
SJ6-06BK-050C	Black	Wrapped	3/8" x 50'	3/8" M-NPT Rigid	3/8" M-NPT Swivel	Crimp
SJ6-06BK-100C	Black	Wrapped	3/8" x 100'	3/8" M-NPT Rigid	3/8" M-NPT Swivel	Crimp
SJ6-06GY-050C	Gray	Wrapped	3/8" x 50'	3/8" M-NPT Rigid	3/8" M-NPT Swivel	Crimp
SJ6-06GY-100C	Gray	Wrapped	3/8" x 100'	3/8" M-NPT Rigid	3/8" M-NPT Swivel	Crimp
SJ6-06BLM-050C	Blue	Smooth	3/8" x 50'	3/8" M-NPT Rigid	3/8" M-NPT Swivel	Crimp
SJ6-06BLM-100C	Blue	Smooth	3/8" x 100'	3/8" M-NPT Rigid	3/8" M-NPT Swivel	Crimp

\*6,000 PSI assemblies come with Red bend restrictors.

\*Call for additional fittings, lengths and assemblies.



WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

## SUPERJET® 7,400 PSI PRESSURE WASHER HOSE



**Application:**

Pressure wash equipment. All of the hose assemblies shown here are factory made with male NPT end fittings and bend restrictors at each end. One male end is a swivel to prevent hose twisting.

**NOT FOR STEAM SERVICE.**

**Construction:**

**Tube** - Seamless, black synthetic rubber

**Reinforcement** - Two braids of high-tensile steel wire

**Cover** - Wrapped and weather resistant synthetic rubber, Black

**Packaging** - 50', 100', 150', 200' in Bulk Reels

**Temperature Range:**

-40°C to +121°C/149°C Intermittent (-40°F to +250°F/300°F Intermittent)

Part No.	Cover	I.D. Inches	O.D. Inches	Max W.P. PSI	Min Bend Radius	Weight lbs / ft
SJ7-06BK	Wrapped	3/8"	0.67	7,400	3.5	0.29

## SUPERJET® 7,400 PSI ASSEMBLIES



Part No.	Color	Cover	Hose Size & Length	End 1	End 2	Attaching Method
SJ7-06BK-025C	Black	Wrapped	3/8" x 25'	3/8" M-NPT Rigid	3/8" M-NPT Rigid	Crimp
SJ7-06BK-050C	Black	Wrapped	3/8" x 50'	3/8" M-NPT Rigid	3/8" M-NPT Rigid	Crimp
SJ7-06BK-075C	Black	Wrapped	3/8" x 75'	3/8" M-NPT Rigid	3/8" M-NPT Rigid	Crimp
SJ7-06BK-100C	Black	Wrapped	3/8" x 100'	3/8" M-NPT Rigid	3/8" M-NPT Rigid	Crimp
SJ7-06BK-150C	Black	Wrapped	3/8" x 150'	3/8" M-NPT Rigid	3/8" M-NPT Rigid	Crimp
SJ7-06BK-200C	Black	Wrapped	3/8" x 200'	3/8" M-NPT Rigid	3/8" M-NPT Rigid	Crimp

\*7,400 PSI assemblies come with Red bend restrictors.

\*Call for additional fittings, lengths and assemblies.

 **WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



# PRESSURE WASH ACCESSORIES & FITTINGS

## Pressure Washer Tips

Part No.	Color	Degree
PW-N040-ORD	Red	0°
PW-N040-15YW	Yellow	15°
PW-N040-25GR	Green	25°
PW-N040-40WH	White	40°
PW-N040-65BK	Black	Std. Soaper
PW-DNZ-LR	Blue	Long Rng. Soaper



## Vented Pressure Washer Lance

Part No.	Thread	Length
PW-LV036	1/4" M-NPT	36"
PW-LV048	1/4" M-NPT	48"



## Gun Lance Alum. Assembly

Part No.	Length
PW-GLA024	24"
PW-GLA036	36"
PW-GLA048	48"



## PW Wand Extension Non-Insulated w/ QDs



Part No.	Length
PW-LA012	12"
PW-LA024	24"
PW-LA036	36"
PW-LA048	48"
PW-LA072	72"
PW-LA084	84"
PW-LA096	96"
PW-LA120	120"



## Pressure Washer Gun 5,000 W.P. 3/8" in x 1/4" out

Part No.
PW-TG5K

## Straight Thru Coupler Brass



Part No.	Size	Thread
QSTC44FPBR	1/4"	F-NPT
QSTC66FPBR	3/8"	F-NPT
QSTC88FPBR	1/2"	F-NPT
QSTC1212FPBR	3/4"	F-NPT



## Straight Thru Plug Steel

Part No.	Size	Thread
QSTN44FP	1/4"	F-NPT
QSTN66FP	3/8"	F-NPT
QSTN88FP	1/2"	F-NPT
QSTN1212FP	3/4"	F-NPT

\*Add S3 at the end of Part No. for 303 Stainless Steel.

\*Call for additional pressure washer accessories and fittings.

**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## PE08 CORRUGATED OILFIELD VACUUM HOSE



**Application:**

Not to be used for refined products above 30% aromatic content. Tank truck service, including oil field vacuum truck, where full suction or rated working pressures are required. Ideal for applications handling crude oil, salt and fresh water, tank bottoms, drilling mud, dilute solutions of hydrochloric acids, diesel fuels, and sewage transfer.

NOTE: **Not recommended for refined petroleum products such as gasoline.**

**Construction:**

**Tube** - Black nitrile and smooth synthetic rubber compound, ARPM Class C

**Reinforcement** - Synthetic yarn with a steel spiral wire helix

**Cover** - Black, corrugated nitrile, synthetic rubber cover; oil, fuel, weather and ozone resistant

**Branding** - FLEXTRAL PE08-200 2" OILFIELD VACUUM 150 PSI MAX WP

**Temperature Range:**

-30°C to +85°C (-22°F to +185°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
PE08-200	2	2.44	150	5.1	0.87	200'
PE08-300	3	3.46	150	7.5	1.53	200'
PE08-400	4	4.57	150	12.1	2.39	200'
PE08-600	6	6.65	150	20.9	5.13	200'
PE08-800	8	8.86	150	31.5	8.80	100'

**\*\*Caution:** Static wire must be properly grounded during fabrication and tested to ensure static continuity of hose assemblies.

## PE08 CORRUGATED OILFIELD VACUUM HOSE ASSEMBLIES



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
PE08-200CEX020-AL	2" x 20'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
PE08-300CEX020-AL	3" x 20'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
PE08-400CEX020-AL	4" x 20'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
PE08-600CEX010-AL	6" x 10'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
PE08-600CEX020-AL	6" x 20'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
PE08-800CEX010-AL-__*	8" x 10'	Fem Cam Alum. - 1 or 2	Male Cam Alum. - 1 or 2	Crimp Sleeve
PE08-800CEX020-AL-__*	8" x 20'	Fem Cam Alum. - 1 or 2	Male Cam Alum. - 1 or 2	Crimp Sleeve

\*Specify (N)=Type 1 for NECO Style or (P)=Type 2 for PT Style. See Page 174 for Detailed Type Explanation.

\*Call for additional fittings, lengths and assemblies.

WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## PE09 SMOOTH OILFIELD VACUUM HOSE



### Application:

Not to be used for refined products above 30% aromatic content. Tank truck service, including oil field vacuum truck, where full suction or rated working pressures are required. Ideal for applications handling crude oil, salt and fresh water, tank bottoms, drilling mud, dilute solutions of hydrochloric acids, diesel fuels, and sewage transfer.

NOTE: **Not recommended for refined petroleum products such as gasoline.**

**Tube** - Black smooth synthetic rubber compound, ARPM Class C

**Reinforcement** - Synthetic yarn with a steel spiral wire helix

**Cover** - Black, smooth finish, synthetic rubber cover; oil, fuel, weather and ozone resistant

**Branding** - FLEXTRAL PE09-200 2" OILFIELD VACUUM 150 PSI MAX WP

### Temperature Range:

-30°C to +85°C (-20°F to +185°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
PE09-200	2	2.44	150	8.0	1.04	200'
PE09-300	3	3.46	150	12.0	1.74	200'
PE09-400	4	4.57	150	16.0	2.55	200'

**\*\*Caution:** Static wire must be properly grounded during fabrication and tested to ensure static continuity of hose assemblies.

## PE09 SMOOTH OILFIELD VACUUM HOSE



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
PE09-200CEX020-AL	2" X 20'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
PE09-300CEX020-AL	3" X 20'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
PE09-400CEX020-AL	4" X 20'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
PE09-200MMX020-AL	2" X 20'	M-NPT	M-NPT	Crimp Sleeve
PE09-300MMX020-AL	3" X 20'	M-NPT	M-NPT	Crimp Sleeve
PE09-400MMX020-AL	4" X 20'	M-NPT	M-NPT	Crimp Sleeve

\*Call for additional fittings, lengths and assemblies.



WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## PE10 PETRO-FLEX CORRUGATED TANK TRUCK



### Application:

For use with petroleum based products with aromatic content up to 50%. An all purpose petroleum suction and discharge hose. For tank truck and in plant operations to transfer gasoline, kerosene, diesel, fats, grease, animal, and vegetable oils - may also be used for hydraulic suction and return lines. Rated full vacuum.

### Construction:

**Tube** - Black nitrile, ARPM Class A+

**Reinforcement** - Synthetic yarn with a steel spiral wire helix

**Cover** - Black, corrugated wrapped finish, synthetic rubber cover; oil, fuel, weather and ozone resistant

**Branding** - FLEXTRAL PE10-200 2" PETRO-FLEX 150 PSI MAX WP

### Temperature Range:

-40°C to +82°C (-40°F to +180°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
PE10-100	1	1.42	150	2.5	0.49	100'
PE10-125	1¼	1.70	150	3.0	0.62	100'
PE10-150	1½	1.95	150	3.4	0.79	100'
PE10-200	2	2.50	150	5.0	1.10	100'
PE10-250	2½	3.03	150	5.5	1.63	100'
PE10-300	3	3.56	150	8.0	1.98	100'
PE10-400	4	4.60	150	12.5	2.76	100'
PE10-600	6	6.77	150	24.0	6.26	100'
PE10-800	8	8.85	150	33.0	8.86	100'

**\*\*Caution:** Static wire must be properly grounded during fabrication and tested to ensure static continuity of hose assemblies.

## PE10 PETRO-FLEX CORRUGATED TANK TRUCK ASSEMBLIES



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
PE10-200CEX020-AL	2" x 20'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
PE10-300CEX020-AL	3" x 20'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
PE10-400CEX020-AL	4" x 20'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
PE10-600CEX010-AL	6" x 10'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
PE10-600CEX020-AL	6" x 20'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
PE10-800CEX010-AL-__*	8" x 10'	Fem Cam Alum. - 1 or 2	Male Cam Alum. - 1 or 2	Crimp Sleeve
PE10-800CEX020-AL-__*	8" x 20'	Fem Cam Alum. - 1 or 2	Male Cam Alum. - 1 or 2	Crimp Sleeve

\*Specify (N)=Type 1 for NECO Style or (P)=Type 2 for PT Style. See Page 174 for Detailed Type Explanation.



Fixed x Floating

Part No.	Hose Size & Length	End 1	End 2	Attaching Method
PE10-300FLX010-CS-1	3" x 10'	150# Fixed Flange	150# Floating Flange	Crimp Sleeve
PE10-300FLX020-CS-1	3" x 20'	150# Fixed Flange	150# Floating Flange	Crimp Sleeve
PE10-400FLX010-CS-1	4" x 10'	150# Fixed Flange	150# Floating Flange	Crimp Sleeve
PE10-400FLX020-CS-1	4" x 20'	150# Fixed Flange	150# Floating Flange	Crimp Sleeve
PE10-600FLX010-CS-1	6" x 10'	150# Fixed Flange	150# Floating Flange	Crimp Sleeve
PE10-600FLX020-CS-1	6" x 20'	150# Fixed Flange	150# Floating Flange	Crimp Sleeve
PE10-800FLX010-CS-1	8" x 10'	150# Fixed Flange	150# Floating Flange	Crimp Sleeve
PE10-800FLX020-CS-1	8" x 20'	150# Fixed Flange	150# Floating Flange	Crimp Sleeve

\*Call for additional fittings, lengths and assemblies.



WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## PE14 PETRO-FLEX SMOOTH TANK TRUCK



### Application:

For use with petroleum based products with aromatic content up to 50%. An all purpose petroleum suction and discharge hose. For tank truck and in plant operations to transfer gasoline, kerosene, diesel, fats, grease, animal, and vegetable oils - may also be used for hydraulic suction and return lines. Rated full vacuum.

### Construction:

**Tube** - Black nitrile, ARPM Class A+

**Reinforcement** - Synthetic yarn with a steel spiral wire helix

**Cover** - Black, smooth finish, synthetic rubber cover; oil, fuel, weather and ozone resistant

**Branding** - FLEXTRAL PE14-200 2" PETRO-FLEX 150 PSI MAX WP

### Temperature Range:

-40°C to +82°C (-40°F to +180°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
PE14-150	1½	1.93	150	6.0	0.73	100'
PE14-200	2	2.48	150	8.0	1.08	100'
PE14-250	2½	3.03	150	9.9	1.63	100'
PE14-300	3	3.54	150	12.0	1.92	100'
PE14-400	4	4.57	150	16.0	2.74	100'
PE14-600	6	6.73	150	30.0	5.93	100'
PE14-800	8	8.86	150	40.0	9.35	100'

**\*\*Caution:** Static wire must be properly grounded during fabrication and tested to ensure static continuity of hose assemblies.

## PE14 PETRO-FLEX SMOOTH TANK TRUCK ASSEMBLIES



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
PE14-200CEX020-AL	2" x 20'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
PE14-300CEX020-AL	3" x 20'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
PE14-400CEX020-AL	4" x 20'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
PE14-600CEX010-AL	6" x 10'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
PE14-600CEX020-AL	6" x 20'	Fem Cam Alum.	Male Cam Alum.	Crimp Sleeve
PE14-800CEX010-AL-__*	8" x 10'	Fem Cam Alum. - 1 or 2	Male Cam Alum. - 1 or 2	Crimp Sleeve
PE14-800CEX020-AL-__*	8" x 20'	Fem Cam Alum. - 1 or 2	Male Cam Alum. - 1 or 2	Crimp Sleeve

\*Specify (N)=Type 1 for NECO Style or (P)=Type 2 for PT Style. See Page 174 for Detailed Type Explanation.



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
PE14-400BSCX020-B	4" x 20'	Ball - Type B CRIMP-X	Socket - Type B CRIMP-X	Crimp Sleeve
PE14-600BSCX010-B	6" x 10'	Ball - Type B CRIMP-X	Socket - Type B CRIMP-X	Crimp Sleeve
PE14-600BSCX020-B	6" x 20'	Ball - Type B CRIMP-X	Socket - Type B CRIMP-X	Crimp Sleeve
PE14-800BSCX010-B	8" x 10'	Ball - Type B CRIMP-X	Socket - Type B CRIMP-X	Crimp Sleeve
PE14-800BSCX020-B	8" x 20'	Ball - Type B CRIMP-X	Socket - Type B CRIMP-X	Crimp Sleeve

\*See page 182 for CRIMP-X Benefits.

\*Call for additional fittings, lengths and assemblies.

**!** WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>





## PE12 PETRO-FLEX CORRUGATED TANK TRUCK



**Application:**

For use with petroleum based products with an aromatic content of up to 50%. An all purpose petroleum suction and discharge hose for tank truck and in plant operations to transfer gasoline, kerosene, diesel, fats, grease, animal, and vegetable oils. May also be used for oil field wastes and water.

**Construction:**

**Tube** - Black, smooth synthetic rubber compound, ARPM Class A

**Reinforcement** - High-strength synthetic cord, steel spiral wire helix

**Cover** - Red, corrugated wrapped finish, synthetic rubber cover; oil, fuel, weather, and ozone resistant

**Branding** - FLEXTRAL PE12-300 3" PETRO-FLEX 150 PSI MAX WP

**Temperature Range:**

-35°C to +100°C (-31°F to +212°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
PE12-200	2	2.52	150	4.0	1.07	100'
PE12-300	3	3.58	150	6.3	1.81	100'
PE12-400	4	4.61	150	9.8	2.48	100'

**\*\*Caution:** Static wire must be properly grounded during fabrication and tested to ensure static continuity of hose assemblies.

\*Call for additional fittings, lengths and assemblies.

## PE13 PETRO-FLEX LT CORRUGATED TANK TRUCK



**Application:**

For use with petroleum based products with an aromatic content of up to 50%. An all purpose petroleum suction and discharge hose for tank truck and in plant operations to transfer gasoline, kerosene, diesel, fats, grease, animal, and vegetable oils. May also be used for oil field wastes and water.

**Construction:**

**Tube** - Black, smooth synthetic rubber compound, ARPM Class A

**Reinforcement** - High-strength synthetic cord, steel spiral wire helix

**Cover** - Red, corrugated wrapped finish, synthetic rubber cover; oil, fuel, weather and ozone resistant

**Branding** - FLEXTRAL PE13-300 3" PETRO-FLEX LT 100 PSI MAX WP

**Temperature Range:**

-35°C to +100°C (-31°F to +212°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
PE13-200	2	2.44	100	4.0	0.90	100'
PE13-300	3	3.47	100	6.0	1.46	100'
PE13-400	4	4.57	100	9.0	2.21	100'

**\*\*Caution:** Static wire must be properly grounded during fabrication and tested to ensure static continuity of hose assemblies.

\*Call for additional fittings, lengths and assemblies.

**!** WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



**PE15 ARCTIC BEAR CORRUGATED TANK TRUCK**



**Application:**

Flexible transfer hose specially designed for transferring mineral oil products and fuel mixtures. Suitable for tank truck and storage tank applications under extreme conditions.

**Construction:**

**Tube** - Blend of synthetic elastomer compound; black, smooth, antistatic, oil, and fuel resistant

**Reinforcement** - High-tensile textile cord, steel spiral wire helix

**Cover** - Blend of synthetic elastomer compound, blue, flat corrugated with cloth impression, abrasion, weather, and ozone resistant

**Branding** - FLEXTRAL PE15-200 2" ARCTIC BEAR COLD TEMP TANK TRUCK 150 PSI MAX WP

**Temperature Range:**

-55°C to +85°C (-67°F to +185°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
PE15-150	1½	1.96	150	4.5	0.76	100'
PE15-200	2	2.52	150	6.0	1.00	100'
PE15-300	3	3.54	150	9.0	1.69	100'
PE15-400	4	4.65	150	12.0	2.63	100'

**\*\*Caution:** Static wire must be properly grounded during fabrication and tested to ensure static continuity of hose assemblies.

\*Call for additional fittings, lengths and assemblies.

**PE16 FLEXTREME CORRUGATED ARCTIC TANK TRUCK**



**Application:**

Our most flexible cold temperature petroleum transfer hose. Suitable for tank truck application, both suction and discharge.

**Construction:**

**Tube** - Oil and petroleum resistant synthetic black nitrile.

**Reinforcement** - High-tensile textile cord, steel spiral wire helix

**Cover** - Blend of synthetic elastomer compound, black, flat corrugated with cloth impression, abrasion, weather, and ozone resistant

**Branding** - FLEXTRAL PE16-200 2" FLEXTREME ARCTIC TANK TRUCK 150 PSI MAX WP

**Temperature Range:**

-55°C to +100°C (-67°F to +212°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
PE16-200	2	2.52	150	5.0	1.05	100'
PE16-300	3	3.54	150	7.5	1.75	100'
PE16-400	4	4.65	150	10.0	2.68	100'

**\*\*Caution:** Static wire must be properly grounded during fabrication and tested to ensure static continuity of hose assemblies.

\*Call for additional fittings, lengths and assemblies.

**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## PE19 PETRO-FLEX HD 300 SMOOTH TANK TRUCK



**Application:**

Heavy-duty, high-pressure suction and discharge hose designed to handle oil and refined fuels such as biodiesel (to B100 in dedicated service), diesel, ethanol, gasoline, and up to 60% aromatics. Suitable for bulk loading and unloading. The construction incorporates a wire helix that provides full suction capability, kink resistance, and a path to conduct a static electrical charge to ground. The cover is resistant to abrasion, oil, and weathering.

**Construction:**

**Tube** - Black nitrile

**Reinforcement** - Multiple textile plies with a steel spiral wire helix

**Cover** - Black, abrasion, ozone, UV, and oil resistant synthetic rubber

**Branding** - FLEXTRAL PE19-200 2" PETRO-FLEX 300 PSI MAX WP HD TANK TRUCK SERVICE

**Temperature Range:**

-29°C to +82°C (-20°F to +180°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
PE19-125	1¼	1.69	300	6.0	0.71	100'
PE19-150	1½	1.98	300	8.0	1.00	100'
PE19-200	2	2.62	300	8.0	1.57	200'
PE19-300	3	3.65	300	15.0	2.41	200'
PE19-400	4	4.84	300	20.0	4.12	200'
PE19-600	6	6.97	300	36.0	6.99	100'

**\*\*Caution:** Static wire must be properly grounded during fabrication and tested to ensure static continuity of hose assemblies.

\*Call for additional fittings, lengths and assemblies.

## PE22 PETRO-FLEX XTREME 500 SMOOTH TANK TRUCK



**Application:**

Heavy-duty suction and discharge hose for petroleum, liquid mud, base oil, biodiesel (to B100 in dedicated service), diesel, gasoline, Ethanol, and up to 60% aromatics. High-pressure bulk loading, unloading, delivery, and transport.

**Construction:**

**Tube** - Black nitrile

**Reinforcement** - Multiple textile plies with a steel spiral wire helix

**Cover** - Black, abrasion, ozone, UV, and oil resistant synthetic rubber

**Branding** - FLEXTRAL PE22-200 2" PETRO-FLEX 500 PSI MAX WP XTREME DUTY TANK TRUCK SERVICE

**Temperature Range:**

-40°C to +93°C (-40°F to +200°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
PE22-200	2	2.56	500	12.0	1.36	100'
PE22-300	3	3.94	500	18.0	3.24	100'
PE22-400	4	5.00	500	24.0	4.64	100'

**\*\*Caution:** Static wire must be properly grounded during fabrication and tested to ensure static continuity of hose assemblies.

\*Call for additional fittings, lengths and assemblies.

**! WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

## PE20 TANK TRUCK DROP HOSE



**Application:**

Gasoline tank truck gravity drop hose for such items as gasoline, diesel, light and heavy-oil, and up to 15% gasohol. Hose can handle petroleum product with up to 40% aromatic content. External helix allows for easy dragging of the hose.

**Construction:**

**Tube** - Nitrile rubber  
**Reinforcement** - Synthetic fabric braiding  
**Cover** - Rigid PVC helix with embedded grounding wire

**Temperature Range:**

-34°C to +60°C (-30°F to +140°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
PE20-200	2	2.68	65	5.0	1.13	60'/100'
PE20-300	3	3.80	65	6.0	1.37	60'/100'
PE20-400	4	4.90	65	8.0	2.16	60'/100'

\*Banding Sleeves must be used.

\*\***Caution:** Static wire must be properly grounded during fabrication and tested to ensure static continuity of hose assemblies.

\*Call for additional fittings, lengths and assemblies.

## PE21 GREEN/CLEAR TANK TRUCK DROP HOSE



**Application:**

Tank truck gravity drop and terminal fuel transfer hose specially designed to handle gasoline, ethanol (up to E98), diesel and biodiesel (up to B100 meeting ASTM D6751 criteria). This non-permeable polyurethane construction won't swell or become stiff like conventional TPR/rubber hose. It is also much lighter than conventional TPR/rubber hose with superior flexibility in sub-zero weather.

**Construction:**

**Tube** - Clear polyurethane  
**Reinforcement** - Synthetic fabric braiding  
**Cover** - Rigid PVC helix with embedded grounding wire

**Temperature Range:**

-40°C to +60°C (-40°F to +140°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
PE21-300	3	3.78	65	6.0	1.20	100'
PE21-400	4	4.82	65	8.0	1.70	100'

\*Banding Sleeves must be used.

\*\***Caution:** Static wire must be properly grounded during fabrication and tested to ensure static continuity of hose assemblies.

\*Call for additional fittings, lengths and assemblies.

 **WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## PE28 HIGH-PRESSURE TANK TRUCK DROP HOSE



**Application:**

High-pressure gasoline tank truck gravity drop hose for such items as gasoline, diesel, light, and heavy-oil, and up to 15% gasohol. Hose can handle petroleum product with up to 40% aromatic content. External helix allows for easy dragging of the hose.

**Construction:**

**Tube** - Nitrile rubber

**Reinforcement** - Synthetic fabric braiding

**Cover** - Rigid PVC helix with embedded grounding wire

**Temperature Range:**

- 34°C to +60°C (-30°F to +140°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI @ 70°F	Bend Radius Inches @ 70°F	Weight lbs / ft	Standard Lengths
PE28-300	3	3.88	150	6.0	1.55	60'/100'
PE28-400	4	4.98	150	8.0	2.60	60'/100'

\*Banding Sleeves or banding coils must be used.

\*\***Caution:** Static wire must be properly grounded during fabrication and tested to ensure static continuity of hose assemblies.

\*Call for additional fittings, lengths and assemblies.

## BANDING SLEEVES



**Banding Sleeve  
Clockwise**

Part No.	I.D. Inches
BSCW-200OR	2
BSCW-300OR	3
BSCW-400OR	4

\*Used for PE20 & PE42.

**Banding Sleeve  
Counter Clockwise**

Part No.	I.D. Inches
BCCC-300CL	3
BCCC-400CL	4

\*Used for PE21 & PE44.

**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>





## PE42 GASOLINE VAPOR RECOVERY HOSE



**Application:**

Gasoline vapor recovery only. Tank truck and terminal vapor recovery.

**Construction:**

**Tube** - Nitrile rubber

**Cover** - Rigid PVC helix with embedded grounding wire

**Temperature Range:**

-40°C to +60°C (-40°F to +140°F)

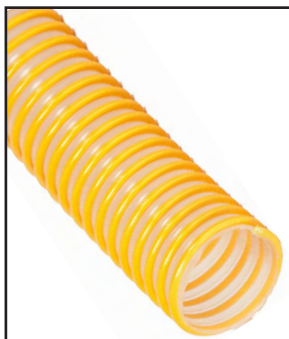
Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI @ 70°F	Bend Radius Inches @ 70°F	Weight lbs / ft	Standard Lengths
PE42-200	2	2.36	20	3.0	0.61	60'/100'
PE42-300	3	3.46	10	3.5	1.00	60'/100'
PE42-400	4	4.57	10	5.0	1.70	60'/100'

\*Banding Sleeves must be used.

\*\***Caution:** Static wire must be properly grounded during fabrication and tested to ensure static continuity of hose assemblies.

\*Call for additional fittings, lengths and assemblies.

## PE44 PU VAPOR RECOVERY HOSE



**Application:**

Tank truck and terminal vapor recovery.

**Construction:**

**Tube** - Polyurethane

**Cover** - Rigid PVC helix with embedded grounding wire

**Temperature Range:**

-40°C to +60°C (-40°F to +140°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI @ 70°F	Bend Radius Inches @ 70°F	Weight lbs / ft	Standard Lengths
PE44-200	2	2.46	17	3.0	0.51	60'/100'
PE44-300	3	3.57	11	3.5	0.78	60'/100'
PE44-400	4	4.61	9	4.5	1.10	60'/100'

\*Banding Sleeves must be used.

\*\***Caution:** Static wire must be properly grounded during fabrication and tested to ensure static continuity of hose assemblies.

\*Call for additional fittings, lengths and assemblies.



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## PE30 FUEL-OIL DELIVERY



**Application:**

Designed for use in home delivery of fuel-oil, non-leaded gasoline, diesel, and tractor fuels. Low shrinkage under pressure, and smooth cover for easy pull. Kink and twist resistant braided construction.

**Construction:**

**Tube** - Black NBR, ARPM Class A, static dissipating

**Reinforcement** - High-tensile synthetic yarn

**Cover** - Low-friction, abrasion resistant non-marking red, carboxylated nitrile

**Branding** - FLEXTRAL PE30-100 1" FUEL OIL DELIVERY HOSE 200 PSI MAX WP

**Temperature Range:**

-40°C to +80°C (-40°F to +180°F)

Note: Gasoline is normally conveyed below 120°F or 49°C

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
PE30-100	1	1.50	200	8.0	0.58	150'
PE30-125	1¼	1.75	200	10.0	0.75	150'
PE30-138	1⅝	1.87	200	10.0	0.86	150'
PE30-150	1½	2.08	200	12.0	0.95	150'

\*Measuring outside diameter of each hose end is critical to proper ferrule selection.

Each hose end and ferrule must be measured and verified.

\*See Page 208 for Scovill Style fittings.

## PE30 FUEL-OIL DELIVERY ASSEMBLIES



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
PE30-100MMIE050-BR	1" x 50'	1" M-NPT	1" M-NPT	Internally Expanded
PE30-100MMIE100-BR	1" x 100'	1" M-NPT	1" M-NPT	Internally Expanded
PE30-100MMIE150-BR	1" x 150'	1" M-NPT	1" M-NPT	Internally Expanded
PE30-125MMIE050-BR	1¼" x 50'	1¼" M-NPT	1¼" M-NPT	Internally Expanded
PE30-125MMIE100-BR	1¼" x 100'	1¼" M-NPT	1¼" M-NPT	Internally Expanded
PE30-125MMIE150-BR	1¼" x 150'	1¼" M-NPT	1¼" M-NPT	Internally Expanded
PE30-138MMIE050-BR	1⅝" x 50'	1½" M-NPT	1½" M-NPT	Internally Expanded
PE30-138MMIE100-BR	1⅝" x 100'	1½" M-NPT	1½" M-NPT	Internally Expanded
PE30-138MMIE150-BR	1⅝" x 150'	1½" M-NPT	1½" M-NPT	Internally Expanded
PE30-150MMIE050-BR	1½" x 50'	1½" M-NPT	1½" M-NPT	Internally Expanded
PE30-150MMIE100-BR	1½" x 100'	1½" M-NPT	1½" M-NPT	Internally Expanded
PE30-150MMIE150-BR	1½" x 150'	1½" M-NPT	1½" M-NPT	Internally Expanded

\*Call for additional fittings, lengths and assemblies.

**!** WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## PE32 CURB PUMP DISPENSING HOSE



**Application:**

Dispensing of all types of commercial gasolines or other Petroleum-based products, from service pumps (curb pump). A heavy duty, non-collapsible, hose also suitable for reel use or behind the nozzle in heavy duty service. The hose is listed with underwriters laboratory UL 330 (USA), and ULC-5612-99 (Canada).

**Construction:**

**Tube** - Nitrile, synthetic rubber

**Reinforcement** - Wire braid

**Cover** - Synthetic rubber

**Temperature Range:**

-40°C to +60°C (-40°F to +120°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
PE32-063	5/8	1.00	150	0.37	200'
PE32-075	3/4	1.13	150	0.42	200'
PE32-100	1	1.38	150	0.57	200'

\*Call for additional fittings, lengths and assemblies.

\*See Page 60 for fuel fittings.

## PE34 GREEN MARINA FUEL DISPENSING HOSE



**Application:**

Designed for dispensing gasoline or diesel fuel to pleasure crafts or commercial vessels at fresh or saltwater marinas. A heavy duty non-collapsible hose suitable for reel use or behind the nozzle in heavy duty service. The hose is listed with underwriters laboratory UL 330 (USA) and ULC-5612-99 (Canada).

**Construction:**

**Tube** - Nitrile, synthetic rubber

**Reinforcement** - Wire Braid

**Cover** - Green synthetic rubber, non-marking

**Temperature Range:**

-40°C to +60°C (-40°F to +120°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
PE34-075	3/4	1.13	150	0.42	500'
PE34-100	1	1.38	150	0.57	500'

\*Call for additional fittings, lengths and assemblies.

\*See Page 60 for fuel fittings.

**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## PE32-34 CRIMP-FUEL COUPLINGS

These couplings are designed for use with fuel dispensing hoses. (See PE32-PE34) A heavy-duty crimp style coupling used on fuel islands, also known as “curb pump” in the dispensing of various petroleum based fuels. The 5/8”, 3/4”, and 1” inserts are chrome plated. The ferrules are made of aluminum.



Part No.	Hose I.D.	Thread Size
<b>MALE NPT RIGID</b>		
GPMC-063	5/8"	3/4"
GPMC-075	3/4"	3/4"
GPMC-100	1"	1"
<b>MALE NPT SWIVEL</b>		
GPXC-063	5/8"	3/4"
GPXC-075	3/4"	3/4"
GPXC-100	1"	1"

\*Ferrules included

## GAS PUMP FITTINGS

Machined from brass and then chrome plated. Reusable couplings can be installed with wrenches. All gas pump fittings should be grounded to the wire reinforcement of the hose using a staple or pin during assembly. Correct matching of the hose outside diameter to the coupling is necessary to ensure good coupling retention.



### Permanent

Part No.	Hose I.D.	Thread Size	Hose O.D.
<b>MALE NPT RIGID</b>			
GPMP-075-120	3/4"	3/4"	1.20"
GPMP-075-122	3/4"	3/4"	1.22"
GPMP-075-127	3/4"	3/4"	1.27"
GPMP-100-139	1"	1"	1.39"
GPMP-100-145	1"	1"	1.45"
GPMP-100-150	1"	1"	1.50"
GPMP-100-156	1"	1"	1.56"

\*These couplings can only be installed using an internal expansion machine.

### Reusable

Part No.	Hose I.D.	Thread Size	Hose O.D.
<b>MALE NPT RIGID</b>			
GPMR-063-100	5/8"	3/4"	1.00"
GPMR-063-103	5/8"	3/4"	1.03"
GPMR-075-113	3/4"	3/4"	1.13"
GPMR-075-125	3/4"	3/4"	1.25"
GPMR-100-150	1"	1"	1.50"
<b>MALE NPT SWIVEL</b>			
GPXR-075-113	3/4"	3/4"	1.13"
GPXR-075-125	3/4"	3/4"	1.25"
GPXR-100-150	1"	1"	1.50"

**!** WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## PE40 FARM TANK



**Application:**

A multi-purpose hose for dispensing gasoline, grease, kerosene, petroleum, and oils from agricultural and barrel type pumps.

**\*This hose is not UL approved.**

**Construction:**

**Tube** - Black nitrile

**Reinforcement** - Synthetic yarn and copper static wire

**Cover** - NBR/PVC Blend

**Branding** - FLEXTRAL PE40-075 3/4" FARM TANK HOSE

**Temperature Range:**

-25°C to +75°C (-13°F to +167°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
PE40-075S	3/4	1.12	60	0.35	300'
PE40-100S	1	1.38	60	0.44	300'

**\*\*Caution:** Static wire must be properly grounded during fabrication and tested to ensure static continuity of hose assemblies.

\*Call for additional fittings, lengths and assemblies.

\*See bottom of Page 208 for PE40 fuel crimp fittings.

## PE45 ARCTIC WOLF



**Application:**

Delivery hose suitable for transportation of air, water, oil, and fuel mixtures at extreme cold conditions.

**\*This Hose is Not UL Approved.**

**Construction:**

**Tube** - Black NBR, smooth, oil, and fuel resistant

**Reinforcement** - High-tensile textile yarn

**Cover** - Blend of synthetic elastomer compound, black or blue, smooth with cloth impression, abrasion, weather, and ozone resistant

**Branding** - FLEXTRAL PE45-075 3/4" ARCTIC WOLF 300 PSI MAX WP

**Temperature Range:**

-55°C to +100°C (-67°F to +212°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
PE45-050	1/2	0.94	300	4.0	0.29	200'
PE45-075	3/4	1.26	300	6.0	0.47	200'
PE45-100	1	1.50	300	7.9	0.58	200'
PE45-125	1 1/4	1.77	300	10.0	0.69	200'
PE45-150	1 1/2	2.09	300	12.0	0.96	200'
PE45-200	2	2.60	300	15.8	1.24	200'

\*See Page 207 and/or 208 for fuel fittings.

**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>





## PE52 CORRUGATED DOCK-FLEX HOSE



### Application:

Heavy-duty oil suction and discharge (OS&D)/dock hose for transferring oil between tankers, barges, and storage tanks. The hose construction incorporates a specially formulated tube that resists media to 50% aromatic content. The wire helix provides full suction capability, kink resistance, and a path to conduct a static electrical charge to ground. The rugged corrugated cover provides additional flexibility and is resistant to abrasion, mild chemicals, oil, and weathering. Flextral USCG tested and certified available upon request.

### Construction:

**Tube** - Black nitrile

**Reinforcement** - Multiple plies of textile with dual wire helix

**Cover** - Black, synthetic rubber, corrugated wrapped finish

**Couplings** - Fixed or Floating Flanges

**Branding** - FLEXTRAL PE52-800 8" DOCK-FLEX 250 PSI MAX WP OIL S/D USCG ACCEPTED

### Temperature Range:

-40°C to +82°C (-40°F to +180°F)



Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
PE52-400	4	5.00	250	20	4.30	As Required
PE52-600	6	7.25	250	29	8.20	As Required
PE52-800	8	9.41	250	38	12.30	As Required
PE52-1000	10	11.72	250	48	21.01	As Required
PE52-1200	12	13.91	250	58	27.06	As Required

**\*\*Caution:** Static wire must be properly grounded during fabrication and tested to ensure static continuity of hose assemblies.

\*Call for additional fittings, lengths and assemblies.

## PE53 CORRUGATED HEAVY-DUTY DOCK HOSE



### Application:

Heavy-duty oil suction and discharge (OS&D)/dock hose for transferring oil between tankers, barges, and storage tanks. The hose construction incorporates a specially formulated tube that resists media to 50% aromatic content. The wire helix provides full suction capability, kink resistance, and a path to conduct a static electrical charge to ground. The rugged corrugated cover is resistant to abrasion, mild chemicals, oil, and weathering. Flextral USCG tested and certified available upon request.

### Construction:

**Tube** - Black nitrile

**Reinforcement** - Multiple plies of tire cord with dual wire helix

**Cover** - Black, synthetic rubber; wrapped finish

**Branding** - FLEXTRAL PE53-800 8" DOCK-FLEX 300 PSI MAX WP OIL S/D USCG ACCEPTED

**Couplings** - Built in Fixed and Floating Flanges

### Temperature Range:

-40°C to +82°C (-40°F to +180°F)



Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
PE53-400	4	5.25	300	20	6.09	As Required
PE53-600	6	7.38	300	34	9.80	As Required
PE53-800	8	9.38	300	46	12.69	As Required

**\*\*Caution:** Static wire must be properly grounded during fabrication and tested to ensure static continuity of hose assemblies.

\*Call for additional fittings, lengths and assemblies.

**!** WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

## PE54 SMOOTH OIL SUCTION & DISCHARGE HOSE (BUILT IN FLANGES)



### Application:

Heavy-duty suction and discharge hose for use in oil, petroleum, and water. Good for 50% aromatics. Assemblies are manufactured with built in 150# ANSI fixed x floating flanges. All hoses are tested and meet USCG 33CFR154.500.

### Construction:

**Tube** - Nitrile rubber

**Reinforcement** - Multiple high-tensile textile plies with wire helix

**Cover** - Black, abrasion, ozone, UV, and oil resistant synthetic rubber

**Branding** - FLEXTRAL PE54-800 8" Oil Service S/D 250 PSI MAX WP MEETS USCG 33CFR 154.500

### Temperature:

-6°C to +88°C (+22°F to +190°F)



Part No.	Hose Size & Length	Max W.P. PSI	Bend Radius Inches	Assembly Weight (lb.)
PE54-300FLBI010-CS-1	3" x 10'	250	15	66
PE54-300FLBI020-CS-1	3" x 20'	250	15	110
PE54-400FLBI010-CS-1	4" X 10'	250	20	88
PE54-400FLBI020-CS-1	4" X 20'	250	20	132
PE54-600FLBI010-CS-1	6" X 10'	250	30	165
PE54-600FLBI020-CS-1	6" X 20'	250	30	243
PE54-800FLBI010-CS-1	8" X 10'	250	40	254
PE54-800FLBI020-CS-1	8" X 20'	250	40	375
PE54-1000FLBI010-CS-1	10" X 10'	250	50	364
PE54-1000FLBI020-CS-1	10" X 20'	250	50	551
PE54-1200FLBI010-CS-1	12" X 10'	250	72	529
PE54-1200FLBI020-CS-1	12" X 20'	250	72	761
PE54-1400FLBI010-CS-1	14" X 10'	250	84	665
PE54-1400FLBI020-CS-1	14" X 20'	250	84	1,020
PE54-1600FLBI020-CS-1	16" X 20'	250	96	772
PE54-1600FLBI020-CS-1	16" X 20'	250	96	1,102

\*Call for additional fittings, lengths and assemblies.



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## PE17 HOT TAR WAND HOSE



**Application:**

A high-quality wand hose used in asphalt crack filling applicator and dispensing service.

**Construction:**

**Tube** - Black, nitrile (special heat resistance)

**Reinforcement** - Two plies of steel wire

**Cover** - Black, wrapped finish; flame-retardant

**Temperature Range:**

-32°C to +177°C (-25°F to +350°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
PE17-075	¾	1.33	300	7.5	0.64	100'
PE17-100	1	1.61	300	10.0	0.84	100'
PE17-150	1½	2.11	300	15.0	1.15	100'

\*Call for additional fittings, lengths and assemblies.

## PE27 HOT TAR AND ASPHALT



**Application:**

Specially designed hose for conveying hot tar and asphalt.

**Construction:**

**Tube** - Black, nitrile synthetic rubber (added heat resistance), ARPM Class A

**Reinforcement** - High-tensile textile cord, steel wire helix

**Cover** - Synthetic rubber, ARPM Class A; high-oil, heat, abrasion, weather, and ozone resistant

**Branding** - FLEXTAL PE27-300 3" HOT TAR AND ASPHALT 150 PSI MAX WP

**Temperature Range:**

-32°C to +177°C (-25°F to +350°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
PE27-200	2	2.60	150	5.0	1.33	100'
PE27-300	3	3.65	150	7.0	2.23	100'
PE27-400	4	4.68	150	10.0	2.91	100'

\*Call for additional fittings, lengths and assemblies.



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## LP35 LPG GAS HOSE



### Application:

LP gas/propane bulk loading/unloading, input transfer, transport, agriculture, construction, industrial, and commercial and reserved heating. Meets or exceeds the requirements of CAN/CGA-8.1-M86 Type I; UL21.

### Construction:

**Tube** - Black nitrile ¼" - 1¼". Black neoprene 1½" - 3"

**Reinforcement** - Multiple textile plies for kink resistance, strength and durability

**Cover** - Black, neoprene perforated

**Branding** - FLEXTRAL LP35-100 1" UL/CGA TYPE 1 LP-GAS HOSE DO NOT EXCEED 350 PSI WP MADE IN U.S.A.

### Temperature:

-40°C to +82°C (-40°F to +180°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
LP35-025	¼	0.58	350	3.0	0.14	700'
LP35-038	⅜	0.75	350	3.0	0.21	700'
LP35-050	½	0.91	350	5.0	0.28	700'
LP35-075	¾	1.33	350	6.0	0.44	350'
LP35-100	1	1.51	350	8.0	0.60	100'/150'/200'
LP35-125	1¼	1.85	350	10.0	0.98	300'
LP35-150	1½	2.25	350	12.0	1.26	60'
LP35-200	2	2.86	350	14.0	1.84	50'/60'
LP35-300	3	3.88	350	24.0	2.58	60'

\*\* Never convey LP gas over 140°F/60°C

\*\*\* LP fittings ONLY

LP35 is a lightweight liquefied petroleum gas (LPG)/propane delivery and transfer hose. The hose meets all Underwriters Laboratories (UL21) and Canadian (CSA 8.1 Type I) requirements. The construction incorporates multiple textile plies of reinforcement for flexibility and kink resistance. The perforated cover is resistant to mild chemicals, oil and ozone. LP35 is available in long lengths on reels, long cut lengths and factory-tested assemblies from stock in popular configurations.

**LP35 and Natural Gas:** The molecules of natural gas are small, enhancing their ability to permeate through standard rubber hose constructions. The permeation process is more rapid as the working pressure increases, and natural gas accumulates with potentially dangerous consequences. LP35 may be used for natural gas service, but ONLY under ALL of the following conditions:

- The application must be in a well-ventilated environment: Outdoors, or indoors with significant continuous air movement.
- LP35 is not to replace fixed/rigid pipe where that material is more appropriate due to reduced permeation and overall strength and durability. Use rigid pipe, non-permeable tubing or hose with barrier constructions to convey natural gas whenever possible.

**LP35 and Compressed Natural Gas (CNG):** Do not use LP35 for CNG engine applications in on-road vehicles, or for high-pressure CNG dispenser/transfer applications (typically 2,900 PSI or greater). In other applications-- where CNG is regulated to pressures within the rating of LP35--apply the guidelines for natural gas applications stated above. Always review and adhere to all applicable government and industry regulations and standards prior to installing this hose in a CNG or natural gas application.



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## LP35 LPG GAS COUPLINGS



### Female JIC

Part No.	Size	Fitting Size
LP04-04FJ	1/4"	1/4" F-JIC
LP06-06FJ	3/8"	3/8" F-JIC
LP08-08FJ	1/2"	1/2" F-JIC
LP12-12FJ	3/4"	3/4" F-JIC
LP16-16FJ	1"	1" F-JIC
LP20-20FJ	1 1/4"	1 1/4" F-JIC
*LP24-24FJ	1 1/2"	1 1/2" F-JIC
*LP32-32FJ	2"	2" F-JIC

\*2-PC System

### Ferrule

Part No.	Size
*LP24-F	1 1/2"
*LP32-F	2"



### Male NPT

Part No.	Size	Fitting Size
LP04-04MP	1/4"	1/4" M-NPT
LP06-06MP	3/8"	3/8" M-NPT
LP08-08MP	1/2"	1/2" M-NPT
LP12-12MP	3/4"	3/4" M-NPT
LP16-16MP	1"	1" M-NPT
LP20-20MP	1 1/4"	1 1/4" M-NPT
*LP24-24MP	1 1/2"	1 1/2" M-NPT
*LP32-32MP	2"	2" M-NPT

\*2-PC System

### Ferrule

Part No.	Size
*LP24-F	1 1/2"
*LP32-F	2"



### Female SAE 45°

Part No.	Size	Fitting Size
LP06-06FA	3/8"	3/8" F-SAE

**\*The only fittings that have been approved and validated by our engineering department for use on Flextral LP35 hose are Flextral LP series fittings. All other combinations are not approved and potentially dangerous.**

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## CH12 ULTRA-FLEX



### Application:

An extremely flexible suction and discharge hose designed to handle commonly used acids, chemical, and solvents as well as sanitary materials. This hose incorporates a dual wire helix that provides full suction capability, superior kink resistance, minimal force-to bend, and a path to conduct a static electrical charge to ground.

### Construction:

**Tube** - UHMWPE backed with a layer of rubber

**Reinforcement** - Multiple textile plies with a steel spiral wire helix

**Cover** - Green, EPDM, corrugated wrapped finish

**Branding** - FLEXTRAL CH12-200 2" ULTRA-FLEX UHMWPE CHEMICAL S/D 200 PSI MAX WP

### Temperature Range:

-40°C to +100°C (-40°F to +212°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Vacuum Inches Hg. @ 70°F	Bend Radius Inches	Weight lbs / ft	Standard Lengths
CH12-075	¾	1.22	250	Full	4.0	0.41	100'
CH12-100	1	1.47	250	Full	5.0	0.51	100'
CH12-125	1¼	1.72	250	Full	6.0	0.60	100'
CH12-150	1½	2.00	250	Full	8.0	0.78	100'
CH12-200	2	2.50	250	Full	9.0	1.08	100'
CH12-250	2½	3.01	250	Full	12.0	1.39	100'
CH12-300	3	3.53	250	Full	18.0	1.76	100'
CH12-400	4	4.53	250	Full	24.0	2.49	100'

**\*\*Caution:** Static wire must be properly grounded during fabrication and tested to ensure static continuity of hose assemblies.

\*See Page 239 for Chemical Compatibility Charts.

## CH12 ULTRA-FLEX ASSEMBLIES



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
CH12-200CEXF015-S6	2" x 15'	Fem Cam 316 SS	Male Cam 316 SS	SS Ferrule
CH12-200CEXF020-S6	2" x 20'	Fem Cam 316 SS	Male Cam 316 SS	SS Ferrule
CH12-200CEXF025-S6	2" x 25'	Fem Cam 316 SS	Male Cam 316 SS	SS Ferrule
CH12-300CEXF015-S6	3" x 15'	Fem Cam 316 SS	Male Cam 316 SS	SS Ferrule
CH12-300CEXF020-S6	3" x 20'	Fem Cam 316 SS	Male Cam 316 SS	SS Ferrule
CH12-300CEXF025-S6	3" x 25'	Fem Cam 316 SS	Male Cam 316 SS	SS Ferrule
CH12-400CEXF015-S6	4" x 15'	Fem Cam 316 SS	Male Cam 316 SS	SS Ferrule
CH12-400CEXF020-S6	4" x 20'	Fem Cam 316 SS	Male Cam 316 SS	SS Ferrule
CH12-400CEXF025-S6	4" x 25'	Fem Cam 316 SS	Male Cam 316 SS	SS Ferrule



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
CH12-200FLXF015-S6-1	2" x 15'	150# SS Fixed Flange	150# SS Floating Flange	SS Ferrule
CH12-200FLXF020-S6-1	2" x 20'	150# SS Fixed Flange	150# SS Floating Flange	SS Ferrule
CH12-200FLXF025-S6-1	2" x 25'	150# SS Fixed Flange	150# SS Floating Flange	SS Ferrule
CH12-300FLXF015-S6-1	3" x 15'	150# SS Fixed Flange	150# SS Floating Flange	SS Ferrule
CH12-300FLXF020-S6-1	3" x 20'	150# SS Fixed Flange	150# SS Floating Flange	SS Ferrule
CH12-300FLXF025-S6-1	3" x 25'	150# SS Fixed Flange	150# SS Floating Flange	SS Ferrule
CH12-400FLXF015-S6-1	4" x 15'	150# SS Fixed Flange	150# SS Floating Flange	SS Ferrule
CH12-400FLXF020-S6-1	4" x 20'	150# SS Fixed Flange	150# SS Floating Flange	SS Ferrule
CH12-400FLXF025-S6-1	4" x 25'	150# SS Fixed Flange	150# SS Floating Flange	SS Ferrule

\*Call for additional fittings, lengths and assemblies.



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## CH15 CHEM-TRAL



### Application:

Recommended for tank truck, barge, ship, chemical processing, plant, blenders, and tank storage. Transfer for a variety of chemical products. Flexible with an extra tough cover to survive the most extreme applications. Hose may be cleaned by using open-end steam up to 50 psi or in bath containing 10% sodium hydroxide (NaOH), up to 212°F (100°C).

### Construction:

**Tube** - Modified cross-linked polyethylene (MXLPE)

**Reinforcement** - Multiple textile plies with a steel spiral wire helix

**Cover** - Green, corrugated EPDM

**Branding** - FLEXTRAL CH15-200 2" MODIFIED XLPE CHEM-TRAL 200 PSI MAX WP

### Temperature Range:

-40°C to +121°C (-40°F to +250°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Vacuum Inches Hg. @ 70°F	Bend Radius Inches	Weight lbs / ft	Standard Lengths
CH15-100	1	1.50	200	Full	5.0	0.56	100'
CH15-125	1¼	1.75	200	Full	6.0	0.70	100'
CH15-150	1½	2.04	200	Full	8.0	0.87	100'
CH15-200	2	2.54	200	Full	9.0	1.08	100'
CH15-250	2½	3.05	150	Full	12.0	1.41	100'
CH15-300	3	3.58	150	Full	18.0	1.81	100'
CH15-400	4	4.69	150	Full	24.0	2.72	100'
CH15-600	6	6.75	125	Full	18.0	4.22	100'

**\*\*Caution:** Static wire must be properly grounded during fabrication and tested to ensure static continuity of hose assemblies.

\*See Page 239 for Chemical Compatibility Charts.

## CH15 CHEM-TRAL ASSEMBLIES



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
CH15-200CEXF015-S6	2" x 15'	Fem Cam 316 SS	Male Cam 316 SS	SS Ferrule
CH15-200CEXF020-S6	2" x 20'	Fem Cam 316 SS	Male Cam 316 SS	SS Ferrule
CH15-200CEXF025-S6	2" x 25'	Fem Cam 316 SS	Male Cam 316 SS	SS Ferrule
CH15-300CEXF015-S6	3" x 15'	Fem Cam 316 SS	Male Cam 316 SS	SS Ferrule
CH15-300CEXF020-S6	3" x 20'	Fem Cam 316 SS	Male Cam 316 SS	SS Ferrule
CH15-300CEXF025-S6	3" x 25'	Fem Cam 316 SS	Male Cam 316 SS	SS Ferrule
CH15-400CEXF015-S6	4" x 15'	Fem Cam 316 SS	Male Cam 316 SS	SS Ferrule
CH15-400CEXF020-S6	4" x 20'	Fem Cam 316 SS	Male Cam 316 SS	SS Ferrule
CH15-400CEXF025-S6	4" x 25'	Fem Cam 316 SS	Male Cam 316 SS	SS Ferrule



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
CH15-200FLXF015-S6-1	2" x 15'	150# SS Fixed Flange	150# SS Floating Flange	SS Ferrule
CH15-200FLXF020-S6-1	2" x 20'	150# SS Fixed Flange	150# SS Floating Flange	SS Ferrule
CH15-200FLXF025-S6-1	2" x 25'	150# SS Fixed Flange	150# SS Floating Flange	SS Ferrule
CH15-300FLXF015-S6-1	3" x 15'	150# SS Fixed Flange	150# SS Floating Flange	SS Ferrule
CH15-300FLXF020-S6-1	3" x 20'	150# SS Fixed Flange	150# SS Floating Flange	SS Ferrule
CH15-300FLXF025-S6-1	3" x 25'	150# SS Fixed Flange	150# SS Floating Flange	SS Ferrule
CH15-400FLXF015-S6-1	4" x 15'	150# SS Fixed Flange	150# SS Floating Flange	SS Ferrule
CH15-400FLXF020-S6-1	4" x 20'	150# SS Fixed Flange	150# SS Floating Flange	SS Ferrule
CH15-400FLXF025-S6-1	4" x 25'	150# SS Fixed Flange	150# SS Floating Flange	SS Ferrule

\*Call for additional fittings, lengths and assemblies.

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## CH22 CHEM - FEP



### Application:

A premium hose capable of handling chemical & acid transfer, pharmaceutical manufacturing, food processing, tank truck, and slurry waste.

### Construction:

**Tube** - Smooth, FDA approved FEP

**Reinforcement** - Synthetic yarn with a steel spiral wire helix

**Cover** - Blue, weather resistant corrugated EPDM

**Branding** - FLEXTRAL CH22-150 1-1/2" CHEM-FEP 200 PSI MAX WP

### Temperature Range:

-40°C to +149°C (-40°F to +300°F)

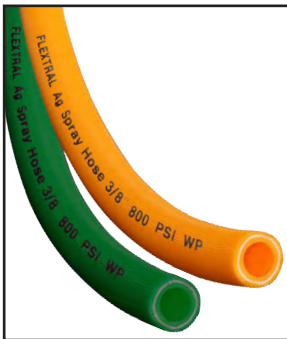
Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI @ 70°F	Vacuum Inches Hg. @ 70°F	Bend Radius Inches	Weight lbs / ft	Standard Lengths
CH22-075	3/4	1.29	200	Full	4.0	0.52	100'
CH22-100	1	1.56	200	Full	5.0	0.63	100'
CH22-125	1 1/4	1.80	200	Full	7.0	0.74	100'
CH22-150	1 1/2	2.05	200	Full	8.0	0.93	100'
CH22-200	2	2.55	200	Full	9.0	1.14	100'
CH22-250	2 1/2	3.07	150	Full	12.0	1.44	100'
CH22-300	3	3.59	150	Full	18.0	1.77	20'/100'
CH22-400	4	4.66	125	Full	24.0	2.60	20'/100'

**\*\*Caution:** Static wire must be properly grounded during fabrication and tested to ensure static continuity of hose assemblies.

\*See Page 239 for Chemical Compatibility Charts.

\*Call for additional fittings, lengths and assemblies.

## CH30 WEED SPRAY



### Application:

PVC spray hose used for agricultural spraying, pest spraying, nursery spraying, and wash-down applications. Ribbed PVC cover minimizes drag resistance. Long standard one piece lengths are available for use on reels. Chemical resistant PVC is suitable for spraying of "wetable" powder type chemicals.

### Construction:

**Tube** - Green or Yellow PVC

**Reinforcement** - High-tensile strength braided yarn

**Cover** - Green or Yellow, ribbed PVC

**Branding** - FLEXTRAL CH30-075 AG SPRAY HOSE 3/4" 800 PSI MAX WP

### Temperature Range:

-5°C to +65°C (+23°F to +150°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
CH30-038YW	3/8	0.65	800	0.11	300'/400'
CH30-050YW	1/2	0.81	800	0.16	300'/400'
CH30-075YW	3/4	1.14	800	0.29	300'
CH30-100YW	1	1.43	800	0.43	150'

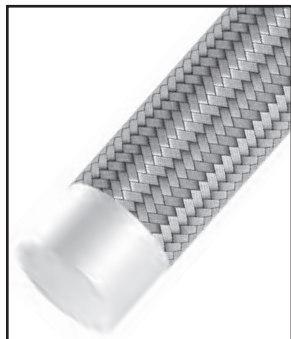
\*YW indicates the color Yellow. For other colors add the suffix to the part number as follows: GN - Green.

\*Call for additional fittings, lengths and assemblies.



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## TBR SMOOTH BORE TEFLON™/STAINLESS STEEL WIRE

**Application:**

Steam, chemical, automotive, food processing, pharmaceutical and petroleum based hydraulic fluids. Meets or exceeds the requirements of SAE 100R14.

**Construction:**

**Tube** - Smooth, True Bore Teflon™ (0.030 wall)

**Cover** - One braid of 304 stainless steel wire

**Temperature:**

-54°C to +232°C (-65°F to +450°F) Continuous service

-73°C to +260°C (-100°F to +500°F) Intermittent service

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Min. Bend Radius	Weight lbs / ft
TBR-03	3/16	0.29	3,000	1.38	0.05
TBR-04	1/4	0.35	2,500	1.78	0.06
TBR-05	5/16	0.43	2,100	1.97	0.08
TBR-06	3/8	0.49	1,900	2.36	0.10
TBR-08	1/2	0.62	1,700	3.54	0.14
TBR-10	5/8	0.75	1,450	4.72	0.18
TBR-12	3/4	0.87	1,300	7.48	0.22
TBR-16	1	1.15	940	10.63	0.31

\*Call for additional fittings, lengths and assemblies.

## TRS SMOOTH BORE TEFLON™/SILICONE COVERED

**Application:**

Steam, chemical, automotive, food processing, pharmaceutical and petroleum based hydraulic fluids. Meets or exceeds the requirements of SAE 100R14 with a smooth silicone cover that protects stainless steel wire reinforcement against wear, fraying, hand cuts and burn exposure.

**Construction:**

**Tube** - Smooth, True Bore Teflon™ (0.030 wall)

**Cover** - One braid of 304 stainless steel wire with silicone jacket

**Temperature:**

-54°C to +232°C (-65°F to +450°F) Continuous service

-73°C to +260°C (-100°F to +500°F) Intermittent service

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Min. Bend Radius	Cover Color Options
TRS-04C	1/4	0.49	3,000	3.0	BL/RD/CL/WT
TRS-06C	3/8	0.62	2,250	4.5	BL/RD/CL/WT
TRS-08C	1/2	0.75	1,500	6.5	BL/RD/CL/WT
TRS-10C	5/8	0.88	1,200	7.7	BL/RD/CL/WT
TRS-12C	3/4	0.99	1,100	8.2	BL/RD/CL/WT

**\*\*Silicone cover prevents hand cuts and other injuries associated with traditional wire covered hose.**

\*Call for additional fittings, lengths and assemblies.



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**TBSC TEFLON™ HIGH-TEMPERATURE**



**Application:**

Compensation, stretch rod, coolant, rotary unions, nozzles, oil and water lines. A proprietary construction that provides excellent life span, heat or cooling insulation isolation, plus excellent flex properties for all blow molding applications.

**Construction:**

**Tube** - Smooth, True Bore Teflon™ (Conductive)

**Reinforcement** - One braid of 304 stainless steel wire

**Cover** - Blue, abrasion resistant braided textile with silicone underlay

**Temperature:**

-54°C to +204°C (-65°F to +400°F)



Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Min. Bend Radius
TBSC-04C	¼	0.53	3,000	2.0
TBSC-06C	⅜	0.64	2,500	2.5
TBSC-08C	½	0.80	2,000	3.0
TBSC-10C	⅝	0.92	1,700	3.5
TBSC-12C	¾	1.04	1,500	4.0

**\*\*Silicone cover prevents hand cuts and other injuries associated with traditional wire covered hose.**

\*Call for additional fittings, lengths and assemblies.

**TBX CONVOLUTED SMOOTH BORE TEFLON™ STAINLESS**



**Application:**

Steam, chemical, automotive, food processing, pharmaceutical and petroleum based hydraulic fluids.

**Construction:**

**Tube** - Black, non-leaching FDA compliant static conductive, True Bore Teflon™

**Cover** - One braid of 304 stainless steel wire

**Packaging** - Random coils

**Temperature:**

-54°C to +232°C (-65°F to +450°F) Continuous service

-73°C to +260°C (-100°F to +500°F) Intermittent service

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Min. Bend Radius	Weight lbs / ft
TBX-04C	¼	0.38	1,280	0.8	0.06
TBX-05C	⅝	0.42	1,220	0.8	0.08
TBX-06C	⅜	0.53	1,160	1.0	0.10
TBX-08C	½	0.69	870	1.5	0.15
TBX-10C	⅝	0.83	730	2.0	0.23
TBX-12C	¾	0.95	610	2.5	0.26
TBX-16C	1	1.25	580	3.0	0.36

\*Call for additional fittings, lengths and assemblies.

**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>





## TFEP SMOOTH BORE LOW EFFUSION TEFLON™



**Application:**

A special low-effusion product good for cryogenic applications liquid nitrogen, freons, ammonia, and other refrigerants. 304 Stainless braided **PREMIUM** special FEP Teflon™ product covered with a smooth silicone cover that protects stainless steel wire reinforcement against wear, fraying and burn exposure.

**Construction:**

**Tube** - Special True Bore FEP

**Reinforcement** - One braid of 304 stainless steel wire

**Cover** - Blue, Silicone cover

**Temperature:**

-54°C to +232°C (-65°F to +450°F) Continuous service

-73°C to +260°C (-200°F to +500°F) Intermittent service

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Min. Bend Radius	Cover Color Options
TFEP-06BL	3/8	0.53	2,390	1.0	RD/CL/WT
TFEP-08BL	1/2	0.69	1,740	1.5	RD/CL/WT
TFEP-10BL	5/8	0.83	1,270	2.0	RD/CL/WT
TFEP-12BL	3/4	0.95	1,010	2.5	RD/CL/WT

**\*\*Silicone cover prevents hand cuts and other injuries associated with traditional wire covered hose.**

\*For other cover color options minimum run required (5,000' per size)

\*Call for additional fittings, lengths and assemblies.

## TUX TEFLON™ - ULTIMATE FLEX



**Application:**

Blow molding coolant lines, oil lines, and nozzles. The uniquely designed PTFE helix convolutions with high-temperature braid results in a highly flexible hose with very low-force to bend which provides superior life span and temperature characteristics as compared to traditional thermoplastic or rubber hoses. Extreme flexibility allows for excellent performance in tight spaces in Sidel and Krones equipment.

**Tube** - Corrugated, True Bore Teflon™

**Cover** - Blue, high-temperature textile braid

**Temperature:**

-54°C to +149°C (-65°F to +300°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Min. Bend Radius
TUX-06	3/8	0.61	500	1.0

\*Call for additional fittings, lengths and assemblies.

**!** WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## MH10 BLACK FLEX-BLAST



**Application:**

Highly abrasion resistant sandblast hose. For conducting sand, steel shot, and other abrasives for blast cleaning.

**Construction:**

**Tube** - Black, highly abrasion resistant, static-conductive natural rubber

**Reinforcement** - Four plies of synthetic yarn

**Cover** - Black, static conductive synthetic rubber

**Branding** - FLEXTRAL MH10-100 1" FLEX-BLAST 150 PSI MAX WP

**Temperature Range:**

-30°C to +85°C (-22°F to +185°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
MH10-050	½	1.06	150	0.36	50'
MH10-075	¾	1.50	150	0.71	50'
MH10-100	1	1.85	150	1.01	50'/100'
MH10-125	1¼	2.13	150	1.21	50'/100'
*MH10-125W	1¼	1.89	150	0.82	50'
MH10-150	1½	2.38	150	1.40	50'/100'
MH10-200	2	2.87	150	1.77	50'/200'

\*Two Plies.

## MH10 BLACK FLEX-BLAST ASSEMBLIES



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
MH10-050SBSB050-AL	½" x 50'	Alum. QD	Alum. QD	Screws
MH10-075SBSB050-AL	¾" x 50'	Alum. QD	Alum. QD	Screws
MH10-100SBSB050-AL	1" x 50'	Alum. QD	Alum. QD	Screws
MH10-125SBSB050-AL	1¼" x 50'	Alum. QD	Alum. QD	Screws
MH10-150SBSB050-AL	1½" x 50'	Alum. QD	Alum. QD	Screws
MH10-200SBSB050-AL	2" x 50'	Alum. QD	Alum. QD	Screws

\*Aluminum fittings standard.

\*Call for additional fittings, lengths and assemblies.

**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## MH15 HD GREEN FLEX-BLAST



**Application:**

For conducting sand, steel shot, and other abrasives for blast cleaning.

**Construction:**

**Tube** - Black, highly abrasion resistant, static-conductive natural rubber

**Reinforcement** - Four plies of synthetic yarn

**Cover** - Green, static conductive synthetic rubber

**Branding** - FLEXTRAL MH15-100 1" FLEX-BLAST 150 PSI MAX WP

**Temperature Range:**

-32°C to +82°C (-25°F to +180°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
MH15-075	¾	1.50	150	0.68	50'
MH15-100	1	1.85	150	1.05	50'
MH15-125	1¼	2.13	150	1.26	50'
MH15-150	1½	2.38	150	1.42	50'
MH15-200	2	2.88	150	1.72	50'

## MH15 HD GREEN FLEX-BLAST ASSEMBLIES



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
MH15-050SBSB050-AL	½" x 50'	Alum. QD	Alum. QD	Screws
MH15-075SBSB050-AL	¾" x 50'	Alum. QD	Alum. QD	Screws
MH15-100SBSB050-AL	1" x 50'	Alum. QD	Alum. QD	Screws
MH15-125SBSB050-AL	1¼" x 50'	Alum. QD	Alum. QD	Screws
MH15-150SBSB050-AL	1½" x 50'	Alum. QD	Alum. QD	Screws
MH15-200SBSB050-AL	2" x 50'	Alum. QD	Alum. QD	Screws

\*Aluminum fittings standard.

\*Call for additional fittings, lengths and assemblies.

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## MH17 GUNITE HOSE

**Application:**

For transfer of bulk material, abrasives, concrete, and cement. Superior abrasion resistant 1/4" gum tube, flexible. Cover is weather and abrasion resistant. The non-marking cover allows for work around buildings and pool tiles. For conveyance of sand and cement to mixing gun.

**Construction:**

**Tube** - 1/4" thick, tan synthetic rubber

**Reinforcement** - Synthetic fabric with incorporated static wire

**Cover** - Tan EPDM, perforated

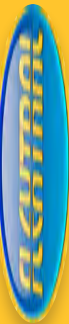
**Branding** - FLEXTRAL MH17-250 2½" 150 PSI MAX WP

**Temperature Range:**

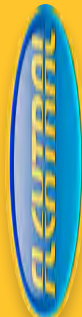
-40°C to +85°C (-40°F to +185°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs /ft
MH17-150	1½	2.43	150	15.0	1.48
MH17-200	2	2.94	150	20.0	1.86
MH17-250	2½	3.45	150	25.0	2.40

\*Call for additional fittings, lengths and assemblies.



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## MH20 FLEX-CORD FABRIC CONCRETE PLACEMENT



**Application:**

General applications are concrete placement, wet gunning, plastics, shot crete, and grout hose at high-pressure.

**Construction:**

**Tube** - Black, abrasion resistant synthetic rubber for maximum resistance

**Reinforcement** - Synthetic yarn

**Cover** - Black, wrapped finish with a white stripe

**Branding** - FLEXTRAL MH20-200 2" FLEX-CORD CONCRETE PLACEMENT 1200 PSI MAX WP 5.0 LBS/FT

**Temperature Range:**

-30°C to +85°C (-22°F to +185°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
MH20-100	1	1.57	1,233	0.58	100'
MH20-125	1¼	1.93	1,233	0.78	100'
MH20-150	1½	2.31	1,233	1.18	100'
MH20-200	2	2.83	1,233	1.55	100'
MH20-250	2½	3.39	1,233	1.97	100'
MH20-300	3	3.94	1,233	2.48	100'
MH20-350	3½	4.65	1,233	3.41	100'
MH20-400	4	5.11	1,233	3.79	100'
MH20-500	5	6.10	1,233	5.11	100'

## MH20 FLEX-CORD FABRIC PLACEMENT ASSEMBLIES

Part No.	Hose Size & Length	End 1	End 2	Attaching Method
MH20-150MMIE050-CS	1½" x 50'	M-NPT	M-NPT	Internally Expanded
MH20-150GGIE050-CS	1½" x 50'	Grooved	Grooved	Internally Expanded
MH20-200MMIC050-HS	2" x 50'	M-NPT	M-NPT	Full Flow Crimp
MH20-200HDHDIC050-HS	2" x 50'	Heavy-Duty	Heavy-Duty	Full Flow Crimp
MH20-200GGIC050-HS	2" x 50'	Grooved	Grooved	Full Flow Crimp
MH20-300HDHDIC025-HS	3" x 25'	Heavy-Duty	Heavy-Duty	Full Flow Crimp
MH20-300GGIC025-HS	3" x 25'	Grooved	Grooved	Full Flow Crimp
MH20-400HDHDIC012-HS	4" x 12'	Heavy-Duty	Heavy-Duty	Full Flow Crimp
MH20-400GGIC012-HS	4" x 12'	Grooved	Grooved	Full Flow Crimp
MH20-500HDHDIC012-HS	5" x 12'	Heavy-Duty	Heavy-Duty	Full Flow Crimp
MH20-500MEME012-HS	5" x 12'	Metric	Metric	Full Flow Crimp

\*Call for additional fittings, lengths and assemblies.

**HEAVY-DUTY/  
CALIFORNIA RAISED**



**GROOVED**



**148mm  
EUROPEAN METRIC**



**MALE PIPE**



**⚠ WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## MH21 FLEX-CORD FABRIC GROUT & PLASTER



### Application:

General concrete applications include concrete placement, wet gunning, plastics, shot crete, and grout hose at high-pressure.

### Construction:

**Tube** - White, abrasion resistant synthetic rubber for maximum resistance

**Reinforcement** - Synthetic yarn

**Cover** - White, wrapped finish, non-marking cover

**Branding** - FLEXTRAL MH21-200 2" FLEX-CORD CONCRETE PLACEMENT 1200 PSI MAX WP 4.9 LBS/FT

### Temperature Range:

-30°C to +85°C (-22°F to +185°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
MH21-125	1¼	1.93	1,200	0.85	100'
MH21-150	1½	2.32	1,200	1.23	100'
MH21-200	2	2.84	1,200	1.56	100'

## MH21 FLEX-CORD FABRIC PLACEMENT ASSEMBLIES

Part No.	Hose Size & Length	End 1	End 2	Attaching Method
MH21-150MMIE050-CS	1½" x 50'	M-NPT	M-NPT	Internally Expanded
MH21-150GGIE050-CS	1½" x 50'	Grooved	Grooved	Internally Expanded
MH21-200MMIC050-HS	2" x 50'	M-NPT	M-NPT	Full Flow Crimp
MH21-200HDHDIC050-HS	2" x 50'	Heavy-Duty	Heavy-Duty	Full Flow Crimp
MH21-200GGIC050-HS	2" x 50'	Grooved	Grooved	Full Flow Crimp

\*Call for additional fittings, lengths and assemblies.

HEAVY-DUTY/  
CALIFORNIA RAISED



GROOVED



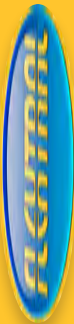
148mm  
EUROPEAN METRIC



MALE PIPE



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## MH22 FLEX-CRETE WIRE



**Application:**

For handling wet concrete with high-head pressures at the critical flex areas of a concrete boom truck and as a discharge hose on the delivery end of high-pressure concrete pumps.

**Construction:**

**Tube** - Black, abrasion resistant synthetic rubber

**Reinforcement** - High-tensile steel wire

**Cover** - Black, wrapped finish with white stripe

**Branding** - FLEXTRAL MH22-200 2" FLEX-CRETE WIRE CONCRETE PLACEMENT 1300 PSI MAX WP 5.3 LBS/FT

**Temperature Range:**

-40°C to +70°C (-40°F to +158°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
MH22-150	1½	2.17	1,300	7.8	1.37	100'
MH22-200	2	2.75	1,300	10.8	2.03	100'
MH22-250	2½	3.47	1,300	11.8	3.00	100'
MH22-300	3	4.02	1,300	13.8	3.66	100'
MH22-400	4	5.12	1,300	15.7	5.67	100'
MH22-500	5	6.10	1,300	19.7	6.47	10'/12'/100'/200'
MH22-600	6	7.09	1,300	25.6	7.37	100'

## MH22 FLEX-CRETE WIRE ASSEMBLIES

Part No.	Hose Size & Length	End 1	End 2	Attaching Method
MH22-200HDHDIC050-HS	2" x 50'	Heavy-Duty	Heavy-Duty	Full Flow Crimp
MH22-200GGIC050-HS	2" x 50'	Grooved	Grooved	Full Flow Crimp
MH22-300HDHDIC025-HS	3" x 25'	Heavy-Duty	Heavy-Duty	Full Flow Crimp
MH22-300GGIC025-HS	3" x 25'	Grooved	Grooved	Full Flow Crimp
MH22-400HDHDIC012-HS	4" x 12'	Heavy-Duty	Heavy-Duty	Full Flow Crimp
MH22-400GGIC012-HS	4" x 12'	Grooved	Grooved	Full Flow Crimp
MH22-500HDHDIC012-HS	5" x 12'	Heavy-Duty	Heavy-Duty	Full Flow Crimp
MH22-500GGIC012-HS	5" x 12'	Grooved	Grooved	Full Flow Crimp
MH22-500MEME012-HS	5" x 12'	Metric	Metric	Full Flow Crimp

\*Call for additional fittings, lengths and assemblies.

HEAVY-DUTY/  
CALIFORNIA RAISED



GROOVED



148mm  
EUROPEAN METRIC



MALE PIPE



**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## HEAT TREATED FULL FLOW CONCRETE FITTINGS



**Heavy-Duty/  
California Raised**

Part No.	Size
C_200-200HD	2"
C_250-250HD	2½"
C_300-300HD	3"
C_400-400HD	4"
C_500-500HD	5"
C_600-600HD	6"



**Grooved**

Part No.	Size
C_200-200V	2"
C_250-250V	2½"
C_300-300V	3"
C_400-400V	4"
C_500-500V	5"



**148mm  
European Metric**

Part No.	Size
C_500-500M	5"



**Male Pipe**

Part No.	Size
C_200-200MP	2"
C_300-300MP	3"
C_400-400MP	4"

Specify T = Textile for MH20 and MH21, or W = Wire for MH22. Example - CT200-200HD.

## CONCRETE FITTINGS CLAMPS & GASKETS



**Non-Adjustable  
Clamps**

Part No.	Size
CQR-200_	2"
CQR-250_	2½"
CQR-300_	3"
CQR-400_	4"
CQR-500_	5"
CQR-600_	6"



**Replacement  
Gaskets for Clamps**

Part No.	Size
CQG-200_	2"
CQG-250_	2½"
CQG-300_	3"
CQG-400_	4"
CQG-500_	5"
CQG-600_	6"

Specify HD = Heavy Duty, V = Grooved, or M = Metric. Example - CQR-200HD.

**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## INTERNALLY EXPANDED CONCRETE FITTINGS

### Heavy-Duty/ California Raised



Part No.	Size
CI150-150HD	1½"



### Grooved

Part No.	Size
CI125-125V	1¼"
CI150-150V	1½"

### Male Pipe



Part No.	Size
CI100-100MP	1"
CI125-125MP	1¼"
CI150-150MP	1½"



### Ferrules

Part No.	Hose I.D.	Hose O.D.	
		From:	To:
CIF-100132-PS	1"	1 <sup>28</sup> / <sub>64</sub> "	1 <sup>32</sup> / <sub>64</sub> "
CIF-100136-PS	1"	1 <sup>32</sup> / <sub>64</sub> "	1 <sup>36</sup> / <sub>64</sub> "
CIF-125144-PS	1¼"	1 <sup>40</sup> / <sub>64</sub> "	1 <sup>44</sup> / <sub>64</sub> "
CIF-125148-PS	1¼"	1 <sup>44</sup> / <sub>64</sub> "	1 <sup>48</sup> / <sub>64</sub> "
CIF-125156-PS	1¼"	1 <sup>52</sup> / <sub>64</sub> "	1 <sup>56</sup> / <sub>64</sub> "
CIF-150204-PS	1½"	2"	2 <sup>4</sup> / <sub>64</sub> "
CIF-150208-PS	1½"	2 <sup>4</sup> / <sub>64</sub> "	2 <sup>8</sup> / <sub>64</sub> "
CIF-150212-PS	1½"	2 <sup>8</sup> / <sub>64</sub> "	2 <sup>12</sup> / <sub>64</sub> "
CIF-150216-PS	1½"	2 <sup>12</sup> / <sub>64</sub> "	2 <sup>16</sup> / <sub>64</sub> "
CIF-150220-PS	1½"	2 <sup>16</sup> / <sub>64</sub> "	2 <sup>20</sup> / <sub>64</sub> "

## MH30 PREMIUM SOFT WALL DRY MATERIAL HOSE



### Application:

Discharge hose used for dry bulk commodities. Including limestone, ground silica, chalk, frac sand, china clay, dry cement, and fertilizers.

### Construction:

**Tube** - Synthetic abrasion resistant rubber

**Reinforcement** - Synthetic yarn

**Cover** - Black, synthetic rubber

**Branding** - FLEXTAL MH30-400C 4" DRY MATERIAL DISCHARGE 1/4" TUBE 100 PSI MAX WP

### Temperature Range:

-30°C to +80°C (-22°F to +176°F)

Tube Thickness Gauge	
A = 1/8	E = 3/8
B = 3/16	F = 7/16
C = 1/4	G = 1/2
D = 5/16	

Part No.	I.D. Inches	Tube Gauge	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
MH30-400A	4	1/8	4.45	100	1.51	100'
MH30-400B	4	3/16	4.57	100	2.09	100'
MH30-400C	4	1/4	4.69	100	2.38	100'
MH30-400E	4	3/8	5.04	100	3.60	100'
MH30-450A	4½	1/8	4.92	100	1.67	100'
MH30-450C	4½	1/4	5.08	100	2.27	100'
MH30-500A	5	1/8	5.43	100	1.86	100'
MH30-500C	5	1/4	5.67	100	2.84	100'

\*Call for additional fittings, lengths and assemblies.



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## MH35 HOT AIR BLOWER



**Application:**

For conveying hot air to tanks on dry bulk material systems. Rated for full vacuum.

**Construction:**

**Tube** - White, heat resistant synthetic rubber tube; tube resists heat created by blowers

**Reinforcement** - A high-tensile wire helix, between synthetic yarn reinforcement

**Cover** - Brown, heat, weather, and ozone resistant cover

**Branding** - FLEXTAL MH35-300 3" HOT AIR BLOWER HOSE 150 PSI MAX WP 350 DEG F

**Temperature Range:**

-35°C to +177°C (-31°F to +350°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
MH35-200	2	2.56	150	8.0	1.21	100'
MH35-300	3	3.54	150	12.0	1.76	100'
MH35-400	4	4.65	150	16.1	2.68	100'

\*Call for additional fittings, lengths and assemblies.

## MH37 HOT AIR BLOWER - PREMIUM



**Application:**

MH37 is a heavy-duty, high-temperature hot air blower hose designed for bulk loading and unloading of dry materials in plants or transport vehicles. The hose transfers hot air from a compressor to the storage bin/cargo bay to propel bulk product. The dual wire helix provides vacuum capability, kink resistance, flexibility for ease of handling, and a path to conduct a static electrical charge to the ground.

**Construction:**

**Tube** - Black EPDM

**Reinforcement** - Multiple textile plies with a steel spiral wire helix

**Cover** - Black EPDM, wrapped finish

**Branding** - FLEXTAL MH37-300 3" HOT AIR BLOWER HOSE 100 PSI MAX WP 400 DEG F

**Temperature Range:**

-40°C to +204°C (-40°F to +400°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
MH37-200	2	2.51	100	5.0	1.06	100'
MH37-300	3	3.53	100	7.0	1.84	100'
MH37-400	4	4.60	100	16.0	2.47	100'
MH37-600	6	6.70	100	30.0	4.46	100'

\*Call for additional fittings, lengths and assemblies.



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## MH50 CORRUGATED MATERIAL CONDUCTING



**Application:**

Designed for abrasive suction and discharge service. Utilizes bolt on split flanged couplings, which can be installed without special tools, allows hose to be purchased in long lengths, and cut as required. The reusable coupling allows full flow of material and permits the hose to be easily rotated for even wear.

**Construction:**

**Tube** - Natural rubber

**Reinforcement** - Synthetic yarn reinforcement and a steel spiral wire helix

**Cover** - Black, abrasion resistant synthetic rubber corrugated to help flexibility and match internal corrugations of external split flange coupling

**Temperature Range:**

-40°C to +71°C (-40°F to +160°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
MH50-200	2	3.11	150	11.9	1.92	100'
MH50-300	3	4.65	150	13.8	4.80	100'
MH50-400	4	5.38	150	19.6	5.00	100'
MH50-600	6	7.73	150	29.6	9.20	100'
MH50-800	8	10.02	100	68.9	16.06	60'
MH50-1000	10	11.89	100	78.8	16.96	40'
MH50-1200	12	13.70	100	111.4	18.65	20'

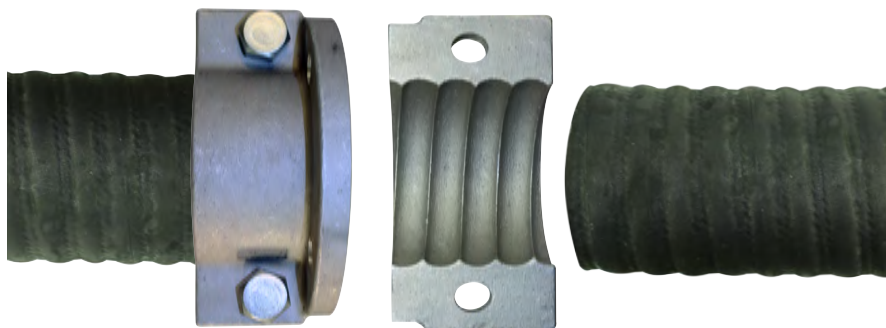
\*Call for additional fittings, lengths and assemblies.

## SPLIT FLANGE GASKET



Part No.	Hose Size
SFG-200	2"
SFG-300	3"
SFG-400	4"
SFG-600	6"
SFG-800	8"
SFG-1000	10"
SFG-1200	12"

## ALUMINUM 150# SPLIT FLANGE



Part No.	Hose Size
SFA-200	2"
SFA-300	3"
SFA-400	4"
SFA-600	6"
SFA-800	8"
SFA-1000	10"
SFA-1200	12"

**!** WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## MH60 INDUSTRIAL VACUUM



**Application:**

Heavy-duty abrasion resistant suction hose for vacuum trucks or handling abrasives such as crushed rock, sand, pea gravel, cement powder, dry fertilizer, iron ore and grains.

**Construction:**

**Tube** - Smooth SBR rubber blend with static carbon black

**Reinforcement** - Rigid high-density PVC helix

**Cover** - Corrugated blended SBR

**Temperature Range:**

-40°C to +60°C (-40°F to +140°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches @70°F	Vacuum Inches Hg. @70°F	Weight lbs / ft	Standard Lengths
MH60-150	1½	1.90	45	2.0	29.8	0.37	100'
MH60-200	2	2.40	40	2.5	29.8	0.50	100'
MH60-250	2½	3.00	35	2.5	29.8	0.88	100'
MH60-300	3	3.50	35	3.0	29.8	1.10	100'
MH60-400	4	4.63	30	4.5	29.8	1.77	50'/100'
MH60-500	5	5.76	30	5.0	28.0	2.47	50'/100'
MH60-600	6	6.80	30	9.2	28.0	3.08	50'/100'
MH60-800	8	9.04	30	15.0	27.0	5.65	50'
MH60-1000	10	11.18	28	30.0	25.0	8.88	20'
MH60-1200	12	13.31	25	40.0	25.0	10.43	20'

\*Call for additional fittings, lengths and assemblies.

## MH61 - INDUSTRIAL VACUUM - HIGH-TEMPERATURE



**Application:**

Heavy-duty suction applications where high-temperature and abrasion are factors such as vacuum trucks or the handling of fly ash, crushed rock, sand, pea gravel or cement powder.

**Construction:**

**Tube** - Smooth EPDM

**Reinforcement** - Wire helix

**Cover** - Corrugated polyethylene

**Temperature Range:**

-42°C to +104°C (-44°F to +220°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. @70°F	Bend Radius Inches @70°F	Vacuum Inches Hg. @70°F	Weight lbs / ft	Standard Lengths
MH61-400	4	4.69	30	5.5	29.8	1.75	50'/100'
MH61-600	6	6.90	30	9.8	28.0	3.46	50'/100'
MH61-800	8	9.13	30	15.0	27.0	6.00	50'

\*Call for additional fittings, lengths and assemblies.



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## MH63 INDUSTRIAL VACUUM - WET & DRY



### Application:

General construction use in wet and dry applications, such as rock, gravel, sand, and crushed concrete. Lightweight and flexible in sub-zero temperatures. Abrasive resistant polyurethane tube provides increased life time, prevents material build up and provides quiet operation. Dissipative material in construction dissipates static charges.

### Construction:

**Tube** - Polyurethane liner  
**Reinforcement** - Rigid PVC liner  
**Cover** - PVC/Polyurethane blend



### Temperature Range:

-40°C to +65°C (-40°F to +140°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. @70°F	Bend Radius Inches @70°F	Vacuum Inches Hg. @70°F	Weight lbs / ft	Standard Lengths
MH63-150	1½	1.81	35	2.0	29.0	0.39	100'
MH63-200	2	2.36	27	2.5	29.0	0.55	100'
MH63-250	2½	2.93	27	4.5	29.8	0.75	100'
MH63-300	3	3.50	25	5.5	29.0	1.10	100'
MH63-400	4	4.55	20	6.5	28.0	1.60	50'/100'
MH63-500	5	5.73	20	11.0	28.0	2.75	50'/100'
MH63-600	6	6.73	20	11.0	28.0	3.80	50'/100'
MH63-800	8	9.04	20	16.0	28.0	5.38	25'

\*Call for additional fittings, lengths and assemblies.

## MH65 REVERSE CIRCULATION (RVC)



### Application:

Heavy-duty hose for use on reverse circulation drill rigs and other applications conveying abrasive drilling material, and fluids in harsh environments.

### Construction:

**Tube** - Black, smooth synthetic rubber compound, designed to resist highly abrasive drilling material and fluids

**Reinforcement** - High-strength rayon cord plies

**Cover** - SBR rubber

**Branding** - FLEXTRAL MH65-300 3" REVERSE CIRCULATION 600 PSI MAX WP

### Temperature Range:

-30°C to +82°C (-22°F to +180°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
MH65-300	3	4.17	600	15.0	3.40	100'
MH65-400	4	5.35	600	20.0	5.20	100'
MH65-600	6	7.91	600	30.0	10.66	100'

\*Call for additional fittings, lengths and assemblies.



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## MH66 LIGHTWEIGHT ABRASION RESISTANT BLOWER & SUCTION



**Application:**

Designed for suction and light blowing of lightweight abrasives such as rock-wool, fiberglass, sawdust, grain, insulation, and cement dust.

**Construction:**

**Tube** - SBR rubber blended with static carbon black

**Reinforcement** - Rigid PVC helix

**Cover** - Smooth bore, corrugated O.D.

**Temperature Range:**

-40°C to +60°C (-40°F to +140°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. @72°F	Bend Radius Inches	Weight lbs / ft	Standard Lengths
MH66-250	2½	2.91	18	2.5	0.71	100'
MH66-300	3	3.44	13	3.0	0.92	100'
MH66-400	4	4.53	10	4.0	1.50	50'/100'
MH66-500	5	5.63	8	5.0	1.68	50'/100'
MH66-600	6	6.67	8	9.0	2.40	50'/100'
MH66-700	7	8.71	8	10.0	3.00	50'
MH66-800	8	8.98	8	12.0	4.40	50'

\*Call for additional fittings, lengths and assemblies.

## MH70 BULK-FLEX MATERIAL SUCTION HOSE



**Application:**

A premium quality flexible hose designed for both suction or discharge. For use in sandblast recovery, cement, hydro excavation, spill recovery, and mineral processing plants.

**Construction:**

**Tube** - Tan, smooth, abrasion resistant natural rubber

**Reinforcement** - High-tensile textile cord, and steel wire helix, with anti-static wire

**Cover** - Black, flat corrugated, specially formulated synthetic rubber, anti-static, abrasion, weather, and ozone resistant

**Branding** - FLEXTRAL MH70-400 4" BULK-FLEX MATERIAL SUCTION 75 PSI MAX WP

**Temperature Range:**

-30°C to +85°C (-22°F to +185°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
MH70-300	3	3.86	75	10.5	2.45	100'
MH70-400	4	4.92	75	16.1	3.67	100'
MH70-600	6	6.89	75	23.9	5.26	100'
MH70-800	8	9.02	75	32.0	9.38	100'

\*Call for additional fittings, lengths and assemblies.



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## DR13 FRAC HOSE WITH PRO SHIELD



**Application:**

Material handling hose for delivery of dry and wet abrasion material, water with sand, drilling fluids and mud with no aromatic content.

**Construction:**

**Tube** - Black, smooth SBR/NR rubber compound

**Reinforcement** - High-strength rayon cord plies

**Cover** - Black, smooth synthetic high-abrasion resistant rubber compounded to withstand oil traces, weather, and ozone

**Branding** - FLEXTRAL DR13-400 4" OILFIELD FRACTURING HOSE PRO SHIELD COVER 400 PSI MAX WP

**Temperature Range:**

-32°C to +70°C (-25°F to +158°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P.	Weight lbs / ft	Standard Lengths
DR13-400	4	4.65	400	2.15	400'

\*Call for additional fittings and lengths.

## DR14 FRAC HOSE WITH PRO SHIELD II



**Application:**

Material handling hose for delivery of dry and wet abrasion material, water with sand, drilling fluids and mud with no aromatic content.

**Construction:**

**Tube** - Black, smooth SBR/NR rubber compound

**Reinforcement** - High-strength rayon cord plies

**Cover** - Black, ultra smooth, polyethylene, high-abrasion resistant rubber cover (HARC) that provides excellent weather and ozone protection for maximum abrasion resistance

**Branding** - FLEXTRAL DR14-400 4" OILFIELD FRACTURING HOSE PRO SHIELD II 400 PSI MAX WP

**Temperature Range:**

-32°C to +70°C (-25°F to +150°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P.	Weight lbs / ft	Standard Lengths
DR14-400	4	4.65	400	2.15	400'
DR14-500	5	5.90	400	3.41	400'

\*Call for additional fittings and lengths.

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## DR20 &amp; DR26 BLOW OUT PREVENTOR

**Application:**

Blow out preventor hose, used for hydraulic connection between the well control equipment and the control system.

**Construction:**

**Tube** - Black nitrile

**Reinforcement** - Two wire steel braid

**Cover** - Wrapped pink neoprene

**Temperature Range:**

-40°C to +121°C (-40°F to +250°F)

Part No.	I.D. Inches	Max W.P.	Standard Lengths
DR20-038	3/8	3,000	As Requested
DR20-050	1/2	3,000	As Requested
DR20-075	3/4	3,000	As Requested
DR20-100	1	3,000	As Requested
DR20-125	1 1/4	3,000	As Requested

\*Call for additional fittings and lengths.

Part No.	I.D. Inches	Max W.P.	Standard Lengths
DR26-050	1/2	5,000	As Requested
DR26-075	3/4	5,000	As Requested
DR26-100	1	5,000	As Requested
DR26-125	1 1/4	5,000	As Requested
DR26-150	1 1/2	5,000	As Requested
DR26-200	2	5,000	As Requested

\*Call for additional fittings and lengths.



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## DR21 HOT OILER



**Application:**

A unique hot oiler hose specifically designed for transferring hot oil at 275°F continuous, 300°F intermittent. The rugged neoprene cover is abrasion and gouge resistant. 3:1 Design factor.

**Construction:**

**Tube** - Black chloroprene, high-temperature synthetic rubber

**Reinforcement** - Multiple wire braids

**Cover** - Black chloroprene, wrapped finish

**Temperature Range:**

-40°F to +275°F (-40°C to +135°C) Continuous

+300°F (+149°C) Intermittent

Part No.	I.D. Inches	O.D. Inches	Max W.P.	Weight lbs / ft	Standard Lengths
DR21-150-050	1½	2.00	2,250	1.59	50'
DR21-150-075	1½	2.00	2,250	1.59	75'

\*Call for additional fittings and lengths.

## DR23 OILFIELD FRAC HOSE WITH PRO SHIELD



**Application:**

Oil/gas fracturing hose, for suction and delivery of drilling water, mud, oil slurry mixtures and crude oil.

**Construction:**

**Tube** - Black, smooth nitrile rubber compound

**Reinforcement** - High-strength rayon cord plies & steel wire helix

**Cover** - Black, smooth (wrapped finish) synthetic rubber

**Branding** - FLEXTRAL DR23-400 4" OILFIELD FRACTURING HOSE W/ PRO SHIELD SUCTION / DISCHARGE 400 PSI MAX WP

**Temperature Range:**

-32°C to +70°C (-25°F to +158°F)



Part No.	I.D. Inches	O.D. Inches	Max W.P.	Weight lbs / ft	Standard Lengths
DR23-400	4	4.80	400	3.69	400'

\*Call for additional fittings and lengths.

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## DR28 ARMORED BLOW OUT PREVENTOR



**Application:**

Blow out preventor hose, used for hydraulic connection between the well control equipment and the control system.

**Construction:**

**Tube** - Black Nitrile

**Reinforcement** - Braided/Spiral construction

**Cover** - Metal armored cover

Part No.	I.D. Inches	Max W.P.	Standard Lengths
DR28-050	1/2	5,000	As Requested
DR28-075	3/4	5,000	As Requested
DR28-100	1	5,000	As Requested
DR28-125	1 1/4	5,000	As Requested
DR28-150	1 1/2	5,000	As Requested
DR28-200	2	5,000	As Requested

\*Call for additional fittings and lengths.

## DR30 FRAC TANK SERVICE



**Application:**

Connection of frac tank manifolds and systems used for the delivery and recovery of drilling water, frac solutions, and water based slurries where extreme flexibility and low force to bend is required.

**Construction:**

**Tube** - Black, smooth synthetic rubber compound

**Reinforcement** - High-strength rayon cord plies & embedded helix wire

**Cover** - Black, corrugated, high-grade synthetic rubber compounded for excellent resistance to weather and ozone

**Branding** - FLEXTAL DR30-800 8" FRAC TANK SERVICE

**Temperature Range:**

-32°C to +70°C (-25°F to +158°F)

Part No.	I.D. Inches	Max W.P.	Weight (lbs./ft.)	Standard Lengths
DR30-800	8	50	5.98	100'
DR30-800-40SC	8	50	5.98	40"
DR30-800-48SC	8	50	5.98	48"
DR30-800-60SC	8	50	5.98	60"

\*Call for additional fittings and lengths.



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## DR40 100R15 SIX SPIRAL WIRE



**Application:**

Meets or exceeds the requirements of SAE 100R15.

**Construction:**

**Tube** - Nitrile

**Reinforcement** - Six spiral layers of high tensile steel wire

**Cover** - Black, oil, abrasion and weather resistant synthetic rubber, MSHA approved

**Temperature Range:**

-40°C to +121°C (-40°F to +250°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P.	Weight lbs / ft	One Piece Non-Skive Coupling
DR40-200	2	2.95	10,000	5.05	V

\*Call for additional fittings and lengths.

## RIG FLOW SLIM HOLE 2,400B ROTARY DRILL



**Application:**

Designed for rotary hole on oil rigs and hydraulic applications. For use with air, oil, water, mud , and drilling fluids.

**Construction:**

**Tube** - Synthetic oil resistant rubber

**Reinforcement** - Four braids of high tensile steel wire

**Cover** - Black, oil, abrasion and weather resistant synthetic rubber

**Temperature Range:**

-40°C to +121°C (-40°F to +250°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P.	Weight lbs / ft	Standard Lengths
RF2400B-48	3	3.90	2,400	4.55	

\*Call for additional fittings and lengths.



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## RIG FLOW 3,000 KELLY

**Application:**

High-pressure rotary hose for slim-hole, seismograph, work-over or portable drilling rigs. For use with small to medium-blast, water-well or shot-hole drilling applications. Used in hydraulic or mud drilling applications where pulsating pump is required.

**Construction:**

**Tube** - Black, smooth nitrile rubber compound

**Reinforcement** - Six spiral layers of high-tensile steel wire

**Cover** - Black, oil, abrasion and weather resistant synthetic rubber, MSHA approved

**Temperature Range:**

-40°C to +121°C (-40°F to +250°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P.	Weight lbs / ft	Standard Lengths
RF3000-40	2½	3.35	3,000	5.13	131'
RF3000-48	3	3.91	3,000	6.07	131'

\*Call for additional fittings and lengths.

## RIG FLOW 5,000 SLIM HOLE ROTARY DRILL

**Application:**

High-pressure rotary hose for slim-hole, seismograph, work-over or portable drilling rigs. For use with small to medium-blast, water-well or shot-hole drilling applications. Used in hydraulic oil, mud or where pulsating pump is required.

**Construction:**

**Tube** - Nitrile

**Reinforcement** - Four spirals of high-tensile steel

**Cover** - Black, oil, abrasion and weather resistant synthetic rubber, MSHA approved

**Temperature Range:**

-40°C to +121°C (-40°F to +250°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P.	Weight lbs / ft	Standard Lengths	Couplings
RF5000-32	2	1.94	5,000	2.45	200'	BSS
RF5000-40	2½	3.35	5,000	5.13	131'	BSS

\*Call for additional fittings and lengths.



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## CERTIFIED & TESTED TO ISO-22241

### TUBE

- Specially Formulated Polyurethane

### COVER

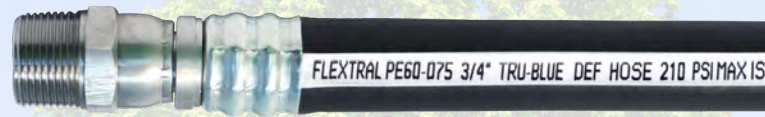
- Specially Formulated TPR

### APPLICATIONS

- DEF, AUS 32, oil, diesel

### FEATURES

- **Clean Certified DEF Assemblies Available.**
- Lighter in weight than comparable rubber hose
- Oil Resistant unlike EPDM hoses
- TPR cover has better resistance to UV, ozone and cracking than conventional rubber
- 3P Quality Procedures
  - 3P Purity hose manufacturing
  - 3P Purity coupling manufacturing
  - 3P Purity assembly procedure
- Meets or exceeds U.S. & European requirements
- Hose has been tested and certified to ISO-22241



### COUPLINGS

- X2 Grip -- proprietary shank design
- SS Couplings available in NPTF Male Solid, NPTF Male Swivel, BSPP Male Solid, BSPP Male Swivel, BSPP Female Solid, BSPP Female Swivel

### TEMPERATURE

- -20°C to +70°C (-4°F to +158°F)

**TRU-BLUE**  
DIESEL EXHAUST FLUID PRODUCTS



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## PE60 DIESEL EXHAUST FLUID (DEF)



### Application:

A lightweight hose for dispensing pump applications. Designed specifically for diesel exhaust fluid (DEF), this flexible, ozone and abrasion resistant hose has been tested and certified ISO-22241. PE60 is also resistant to oil, diesel, Ad-Blue, and DEF.

### Construction:

**Tube** - Special formulated PU

**Reinforcement** - Synthetic yarn

**Cover** - Specially blended TPR

**Branding** - FLEXTRAL PE60-075 3/4" TRU-BLUE DEF HOSE 210 PSI MAX ISO-22241

### Temperature Range:

-20°C to +70°C (-4°F to +158°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
PE60-050	1/2	0.75	210	0.20	200'
PE60-075	3/4	1.03	210	0.24	200'
PE60-100	1	1.38	210	0.42	200'

- Clean Certified DEF Assemblies Available.



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## PE71 DIESEL EXHAUST FLUID (DEF)

### Application:

An extremely flexible hose that is designed for suction service or in tight areas where non supported hose tends to restrict flow or collapses. This product is manufactured with the same liner as our PE60 and is specifically designed to handle DEF, Ad-Blue, oil, and diesel. PE71 has been tested and certified to ISO-22241

### Construction:

**Tube** - Specially formulated PU

**Reinforcement** - Synthetic yarn with helix wire

**Cover** - Specially blended TPR

**Branding** - FLEXTRAL PE71-075 3/4" TRU-BLUE DEF HOSE SUCTION / DISCHARGE 75 PSI MAX ISO-22241

### Temperature Range:

-20°C to +70°C (-4°F to +158°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Bend Radius Inches	Standard Lengths
PE71-075	3/4	1.06	75	0.27	3.40	100'

- Clean Certified DEF Assemblies Available.

## PE75 DIESEL EXHAUST FLUID (DEF)



### Application:

A heavier duty hose for DEF applications. This suction / discharge hose is ideal for truck delivery and tank applications. Available in long lengths for reel applications with a low-friction cover to reduce drag. PE75 is tested and certified to ISO-22241, and is also resistant to oil, diesel, Ad-Blue, and DEF.

### Construction:

**Tube** - Specially formulated PU

**Reinforcement** - Synthetic yarn with helix wire

**Cover** - Blue, specially blended TPR

**Branding** - FLEXTRAL PE75-100 1" TRU-BLUE DEF HOSE SUCTION / DISCHARGE 175 PSI MAX ISO-22241

### Temperature Range:

-25°C to +70°C (-13°F to +158°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Bend Radius Inches	Standard Lengths
PE75-100	1	1.42	175	0.45	3.54	200'
PE75-125	1¼	1.66	175	0.52	4.33	200'
PE75-150	1½	2.01	175	0.77	5.31	200'
PE75-200	2	2.51	175	1.075	6.69	200'

- Clean Certified DEF Assemblies Available.



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**DIESEL EXHAUST FLUID (DEF) FITTINGS**

All Flextral DEF Fittings are manufactured to Flextral's 3P cleanliness and purity standard.



**Male BSPP Solid Stainless**

Hose Size	Part No.
3/4" x 3/4"	DEF12-12MBSPP-SS
3/4" x 1"	DEF12-16MBSPP-SS
1" x 1"	DEF16-16MBSPP-SS



**Male BSPP Swivel Stainless**

Hose Size	Part No.
3/4" x 3/4"	DEF12-12MBSPPX-SS
3/4" x 1"	DEF12-16MBSPPX-SS
1" x 1"	DEF16-16MBSPPX-SS



**Male NPT Solid Stainless**

Hose Size	Part No.
1/2" x 1/2"	DEF08-08MP-SS
3/4" x 3/4"	DEF12-12MP-SS
3/4" x 1"	DEF12-16MP-SS
1" x 1"	DEF16-16MP-SS
1 1/4" x 1 1/4"	DEF20-20MP-SS
1 1/2" x 1 1/2"	DEF24-24MP-SS
2" x 2"	DEF32-32MP-SS



**Male NPT Swivel Stainless**

Hose Size	Part No.
3/4" x 3/4"	DEF12-12MPX-SS
3/4" x 1"	DEF12-16MPX-SS
1" x 1"	DEF16-16MPX-SS



**Female BSPP Solid Stainless**

Hose Size	Part No.
3/4" x 1"	DEF12-16FBSPP-SS



**Female BSPP Swivel Stainless**

Hose Size	Part No.
3/4" x 3/4"	DEF12-12FBSPPX-SS
3/4" x 1"	DEF12-16FBSPPX-SS
1" x 1"	DEF16-16FBSPPX-SS



**Male NPT Polypropylene**

Hose Size	Part No.
1/2" x 1/2"	DEF08-08MP-PP
1/2" x 3/4"	DEF08-12MP-PP
3/4" x 3/4"	DEF12-12MP-PP
3/4" x 1"	DEF12-16MP-PP
1" x 3/4"	DEF16-12MP-PP
1" x 1"	DEF16-16MP-PP
1" x 1/4"	DEF16-20MP-PP
1 1/4" x 1 1/4"	DEF20-20MP-PP
1 1/2" x 1 1/2"	DEF24-24MP-PP
2" x 2"	DEF32-32MP-PP



**Female Camlock Passivated Stainless**

Fitting Size	Part No.
2"	SSP-C200
3"	SSP-C300



**Male Camlock Passivated Stainless**

Fitting Size	Part No.
2"	SSP-E200
3"	SSP-E300

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## MR32 MARINE EXHAUST SOFTWALL



**Application:**

Marine exhaust applications, and other general applications where non-standard sizes are specified. Meets SAE J2006R1 USCG.

**Construction:**

**Tube** - Black, heat resistant rubber compounded for wet marine exhaust service

**Reinforcement** - Multiple plies of synthetic fabric

**Cover** - Black, heat and weather resistant synthetic rubber with blue identification stripe

**Temperature Range:**

-40°C to +93°C (-40°F to +200°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
MR32-100	1	1.44	200	0.45	50'
MR32-112	1 $\frac{1}{8}$	1.56	200	0.51	50'
MR32-125	1 $\frac{1}{4}$	1.79	200	0.71	50'
MR32-131	1 $\frac{5}{16}$	1.85	200	0.73	50'
MR32-138	1 $\frac{3}{8}$	1.91	200	0.77	50'
MR32-150	1 $\frac{1}{2}$	2.04	200	0.81	50'
MR32-163	1 $\frac{5}{8}$	2.19	200	0.90	50'
MR32-175	1 $\frac{3}{4}$	2.28	200	0.91	50'
MR32-188	1 $\frac{7}{8}$	2.41	200	0.96	50'
MR32-200	2	2.57	200	1.11	50'
MR32-212	2 $\frac{1}{8}$	2.69	200	1.18	25'
MR32-225	2 $\frac{1}{4}$	2.82	200	1.24	25'
MR32-238	2 $\frac{3}{8}$	2.96	200	1.33	25'
MR32-250	2 $\frac{1}{2}$	3.07	200	1.35	25'
MR32-263	2 $\frac{5}{8}$	3.20	200	1.43	25'
MR32-288	2 $\frac{7}{8}$	3.43	200	1.46	25'
MR32-300	3	3.66	200	1.83	25'
MR32-350	3 $\frac{1}{2}$	4.15	200	2.08	25'
MR32-400	4	4.63	200	2.32	25'
MR32-450	4 $\frac{1}{2}$	5.15	200	2.55	25'
MR32-500	5	5.85	200	3.69	25'



WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>







## MR36 MARINE EXHAUST HARDWALL



### Application:

Marine exhaust applications, and other general applications where non-standard sizes are specified. Meets SAE J2006R2 USCG.

### Construction:

**Tube** - Black, heat resistant rubber, specifically compounded for wet marine exhaust service

**Reinforcement** - Two textile plies with dual wire helix

**Cover** - Black, heat and weather resistant synthetic rubber

### Temperature Range:

-29°C to +100°C (-20°F to +212°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths
MR36-050	1/2	0.89	75	0.29	50'
MR36-063	5/8	1.04	75	0.37	50'
MR36-075	3/4	1.16	75	0.42	50'
MR36-088	7/8	1.31	75	0.50	50'
MR36-100	1	1.41	75	0.53	50'
MR36-113	1 1/8	1.56	75	0.62	50'
MR36-125	1 1/4	1.66	75	0.64	50'
MR36-131	1 5/16	1.72	75	0.66	50'
MR36-138	1 3/8	1.81	75	0.74	50'
MR36-150	1 1/2	1.91	50	0.78	50'
MR36-163	1 5/8	2.04	50	0.87	50'
MR36-175	1 3/4	2.18	50	0.96	50'
MR36-188	1 7/8	2.35	50	1.14	50'
MR36-200	2	2.48	50	1.18	50'
MR36-213	2 1/8	2.56	50	1.22	50'
MR36-225	2 1/4	2.69	50	1.33	50'
MR36-238	2 3/8	2.83	50	1.40	50'
MR36-250	2 1/2	2.93	50	1.41	50'
MR36-275	2 3/4	3.21	40	1.63	50'
MR36-263	2 5/8	3.07	50	1.52	50'
MR36-288	2 7/8	3.33	40	1.67	50'
MR36-300	3	3.46	40	1.74	50'
MR36-313	3 1/8	3.61	40	1.90	50'
MR36-350	3 1/2	3.98	40	2.13	50'
MR36-400	4	4.50	40	2.50	50'
MR36-450	4 1/2	5.04	40	3.00	25'
MR36-500	5	5.50	40	3.19	25'

\*Do not use in applications requiring low-permeation fuel feed hose (SAE J1527 A1-15)



WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## AU10 AUTO HEATER HOSE



**Application:**

Designed for heater hose applications that endure higher underhood temperatures and require a higher heat resistance. Similar to SAE J20R3.

**Construction:**

**Tube** - Black, heat resistant EPDM. Resistant to anti-freeze solutions

**Reinforcement** - Two spirals of synthetic textile

**Cover** - Black, heat and weather resistant EPDM

**Temperature:**

-40°C to +125°C (-40°F to +257°F)

Part No.	I.D. Inches	O.D. Inches.	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
AU10-038	3/8	0.69	60	2.8	0.16	50'
AU10-050	1/2	0.77	60	3.0	0.17	50'
AU10-063	5/8	0.91	60	3.8	0.20	50'
AU10-075	3/4	1.05	50	4.5	0.24	50'
AU10-100	1	1.34	40	7.0	0.37	50'

## AU16 SILICONE HEATER HOSE



**Application:**

A premium quality heater hose for use under extreme temperature conditions. Meets or exceeds SAE J20R3 Class A.

**Construction:**

**Tube** - Red, heat resistant silicone

**Reinforcement** - Nylon fiber

**Cover** - Blue, heat and weather resistant silicone

**Temperature Range:**

-54°C to +177°C (-65°F to +350°F)

Part No.	I.D. Inches	O.D. Inches	Min. Burst Pressure SAE J20 R1	Weight lbs / ft	Standard Lengths
AU16-025	1/4	0.58	250	0.12	25'/50'/250'
AU16-031	5/16	0.64	250	0.14	25'/50'/250'
AU16-038	3/8	0.71	250	0.18	25'/50'/250'
AU16-050	1/2	0.83	250	0.24	25'/50'/250'
AU16-063	5/8	0.96	250	0.29	25'/50'/250'
AU16-075	3/4	1.08	200	0.32	25'/50'/250'
AU16-088	7/8	1.21	175	0.36	25'/50'/200'
AU16-100	1	1.33	175	0.46	25'/50'/200'

**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## AU20 COOLANT HOSE



**Application:**

Designed for heavy-duty industrial or automotive coolant service. The three ply construction hose has a specially blended tube compound designed to resist heat and oil. Meets SAE J20R1.

**Construction:**

**Tube** - Black EPDM

**Reinforcement** - Three fabric plies

**Cover** - Black EPDM

**Temperature:**

-40°C to +93°C (-40°F to +200°F)

Part No.	I.D. Inches	O.D. Inches.	Max W.P. PSI	Weight lbs / ft	Standard Lengths
AU20-063	5/8	1.00	130	0.34	3'
AU20-075	3/4	1.13	115	0.38	3'
AU20-088	7/8	1.25	100	0.42	3'
AU20-100	1	1.38	90	0.46	3'
AU20-112	1 1/8	1.50	80	0.50	3'
AU20-125	1 1/4	1.69	75	0.55	3'
AU20-131	1 5/16	1.75	70	0.57	3'
AU20-138	1 3/8	1.62	70	0.59	3'
AU20-150	1 1/2	1.69	65	0.63	3'
AU20-163	1 5/8	1.75	60	0.67	3'
AU20-175	1 3/4	2.13	55	0.71	3'
AU20-188	1 7/8	2.25	55	0.76	3'
AU20-200	2	2.38	50	0.80	3'
AU20-212	2 1/8	2.50	45	0.84	3'
AU20-225	2 1/4	2.63	45	0.88	3'
AU20-238	2 3/8	2.75	40	0.92	3'
AU20-250	2 1/2	2.88	40	0.96	3'
AU20-263	2 5/8	3.00	40	1.01	3'
AU20-275	2 3/4	3.13	35	1.05	3'
AU20-288	2 7/8	3.25	35	1.09	3'
AU20-300	3	3.38	35	1.13	3'
AU20-312	3 1/8	3.50	30	1.17	3'
AU20-325	3 1/4	3.63	30	1.22	3'
AU20-350	3 1/2	3.88	30	1.30	3'
AU20-400	4	4.38	25	1.47	3'
AU20-450	4 1/2	4.88	25	1.63	3'
AU20-475	4 3/4	5.13	20	1.72	3'
AU20-500	5	5.38	20	1.80	3'
AU20-550	5 1/2	5.88	20	1.97	3'

**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## AU29 SILICONE COOLANT HOSE



**Application:**

Truck and bus fleets and other areas where long service under high-temperature conditions is required. Meets or exceeds SAE 20R1 Class A.

**Construction:**

**Tube** - Heat resistant silicone

**Reinforcement** - Three plies of polyester

**Cover** - Blue, heat and weather resistant silicone

**Temperature Range:**

-54°C to +177°C (-65°F to +350°F)

Part No.	I.D. Inches	O.D. Inches	Min. Burst Pressure SAE J20 R1	Standard Lengths
AU29-038	3/8	0.71	477	3'
AU29-050	1/2	0.83	425	3'
AU29-063	5/8	0.95	374	3'
AU29-075	3/4	1.08	323	3'
AU29-088	7/8	1.21	297	3'
AU29-100	1	1.33	297	3'
AU29-112	1 1/8	1.46	297	3'
AU29-125	1 1/4	1.58	274	3'
AU29-138	1 3/8	1.71	274	3'
AU29-150	1 1/2	1.83	248	3'
AU29-162	1 5/8	1.95	248	3'
AU29-175	1 3/4	2.08	224	3'
AU29-188	1 7/8	2.21	199	3'
AU29-200	2	2.33	199	3'
AU29-212	2 1/8	2.46	175	3'
AU29-225	2 1/4	2.58	175	3'
AU29-238	2 3/8	2.71	175	3'
AU29-250	2 1/2	2.83	149	3'
AU29-262	2 5/8	2.95	124	3'
AU29-275	2 3/4	3.07	124	3'
AU29-287	2 7/8	3.21	87	3'
AU29-300	3	3.33	87	3'
AU29-325	3 1/4	3.58	75	3'
AU29-350	3 1/2	3.83	75	3'
AU29-375	3 3/4	4.08	49	3'
AU29-400	4	4.33	49	3'
AU29-450	4 1/2	4.82	N/A	3'
AU29-500	5	5.32	N/A	3'

\*12' lengths also available. Call for availability.



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## AU30 SILICONE COOLANT HOSE



**Application:**

For heavy-duty high-temperature and/or pressure connections in hostile diesel engine environments. Ideal where high-performance levels and a robust construction are required. Meets and/or exceeds SAE J20R1 Class A.

**Construction:**

**Tube** - Heat resistant silicone

**Reinforcement** - Four plies of polyester

**Cover** - Blue, heat and weather resistant silicone

**Temperature Range:**

-54°C to +177°C (-65°F to +350°F)

Part No.	I.D. Inches	O.D. Inches	Min. Burst Pressure SAE J20 R1	Standard Lengths
AU30-038	3/8	0.75	477	3'
AU30-050	1/2	0.87	425	3'
AU30-063	5/8	0.99	374	3'
AU30-075	3/4	1.12	323	3'
AU30-088	7/8	1.25	297	3'
AU30-100	1	1.37	297	3'
AU30-112	1 1/8	1.50	297	3'
AU30-125	1 1/4	1.62	274	3'
AU30-138	1 3/8	1.75	274	3'
AU30-150	1 1/2	1.87	248	3'
AU30-163	1 5/8	1.99	248	3'
AU30-175	1 3/4	2.12	224	3'
AU30-188	1 7/8	2.25	199	3'
AU30-200	2	2.37	199	3'
AU30-225	2 1/4	2.62	175	3'
AU30-238	2 3/8	2.75	175	3'
AU30-250	2 1/2	2.87	149	3'
AU30-263	2 5/8	2.99	124	3'
AU30-275	2 3/4	3.12	124	3'
AU30-288	2 7/8	3.25	87	3'
AU30-300	3	3.37	87	3'
AU30-325	3 1/4	3.62	75	3'
AU30-350	3 1/2	3.87	75	3'
AU30-400	4	4.37	49	3'
AU30-500	5	5.37	n/a	3'

\*12' lengths also available. Call for availability.

**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>





## AU50 FUEL LINE & VAPOR EMISSION HOSE



**Application:**

Most suitable for conveying diesel, gasoline and ethanol blended gasoline (E20/E85) in combustion engines and for general usage in contact with fuel/oil. Meets or exceeds SAE 30R7.

**Construction:**

**Tube** - Fuel/oil resistant synthetic rubber

**Reinforcement** - High-tensile synthetic textile filament yarn

**Cover** - Fuel/oil, ozone and weather resistant synthetic rubber

**Branding** - FLEXTAL AU50-038 3/8" (9.5mm) FUEL/OIL SAE 30R7

**Temperature:**

-40°C to +125°C (-40°F to +257°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Min Bend Radius	Reel Lengths
AU50-019	3/16	0.41	75	0.07	2.0	250'
AU50-025	1/4	0.50	50	0.10	2.0	250'
AU50-031	5/16	0.56	50	0.11	3.0	250'
AU50-038	3/8	0.63	50	0.14	3.5	250'
AU50-050	1/2	0.78	35	0.17	4.0	250'

## YK AIR BRAKE HOSE



**Application:**

For conveying air in truck brake systems. Meets DOT FMVSS 106-74, SAE J1402C and branded accordingly. Approved by the American Association of Motor Vehicles Administration (AAMVA).

**Construction:**

**Tube** - Black nitrile

**Reinforcement** - Synthetic fiber

**Cover** - Black, oil, abrasion and weather resistant synthetic rubber

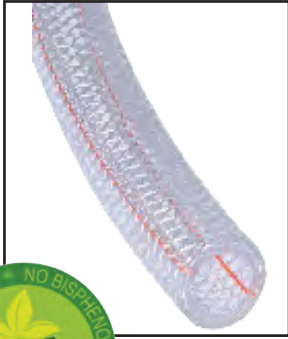
**Temperature:**

-29°C to +88°C (-20°F to +190°F)

Part No.	I.D. Inches	O.D. Inches.	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
YK-06	3/8	0.75	225	2.3	0.17	250'
YK-08	1/2	0.88	225	3.0	0.20	250'

**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

**AR41 FOOD GRADE PVC CLEARBRAID**



**Application:**

A standard wall, yarn reinforced hose suitable for a wide variety of food and beverage applications. Complies with applicable FDA requirements, meets USDA, 3A, NSF-51, UL, RoHS, and USP Class VI criteria.

**Construction:**

- Tube** - Clear PVC
- Reinforcement** - High-tensile strength yarn
- Cover** - Clear PVC

**Temperature Range:**

-4°C to +65°C (+25°F to +150°F)



Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI @70°F	Weight lbs / ft	Standard Lengths
AR41-019	3/16	0.38	250	0.04	300'
AR41-025	1/4	0.44	250	0.06	300'
AR41-031	5/16	0.53	250	0.08	300'
AR41-038	3/8	0.59	225	0.09	300'
AR41-050	1/2	0.75	200	0.13	300'
AR41-063	5/8	0.89	200	0.18	200'
AR41-075	3/4	1.03	150	0.22	200'
AR41-100	1	1.30	125	0.30	200'
AR41-125	1 1/4	1.62	100	0.45	100'
AR41-150	1 1/2	1.94	100	0.64	100'
AR41-200	2	2.49	75	0.94	100'

\*Call for additional fittings, lengths and assemblies.



WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## AR44 CLEAR FOOD GRADE PVC



**Application:**

Utility grade non-toxic clear food grade PVC tubing for general use applications. Complies with applicable FDA requirements, meets RoHS.

**Construction:**

Tube - Clear PVC

**Temperature Range:**

-4°C to +65°C (+25°F to +150°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI @70°F	Weight lbs / ft	Standard Lengths
AR44-013-025	1/8	0.25	65	0.02	100'
AR44-019-031	3/16	0.31	55	0.03	100'
AR44-025-038	1/4	0.38	55	0.03	100'
AR44-025-050	1/4	0.50	60	0.08	100'
AR44-031-044	5/16	0.44	50	0.04	100'
AR44-038-050	3/8	0.50	45	0.05	100'
AR44-038-056	3/8	0.56	50	0.08	100'
AR44-038-063	3/8	0.63	55	0.11	100'
AR44-050-063	1/2	0.63	30	0.06	100'
AR44-050-075	1/2	0.75	45	0.13	100'
AR44-063-081	5/8	0.81	35	0.12	100'
AR44-063-088	5/8	0.88	40	0.16	100'
AR44-075-100	3/4	1.00	35	0.19	100'
AR44-088-113	7/8	1.13	30	0.21	100'
AR44-100-125	1	1.25	25	0.24	100'
AR44-125-150	1 1/4	1.50	20	0.30	50'
AR44-150-188	1 1/2	1.88	30	0.54	50'
AR44-150-200	1 1/2	2.00	35	0.75	50'
AR44-200-250	2	2.50	35	0.96	50'

\*Call for additional fittings, lengths and assemblies.

**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

## AR45 FOOD GRADE PVC SUCTION



### Application:

Standard wall, food and beverage grade vacuum/transfer hose with rated working pressures. Rated for full vacuum @ 70°F (29.9 Inches HG). Complies with applicable FDA requirements, meets USDA, 3A, NSF-51, UL, RoHS, and USP criteria.

### Construction:

**Tube & Cover** - Clear, smooth PVC. NSF-51 certified material

**Reinforcement** - High-tensile helix



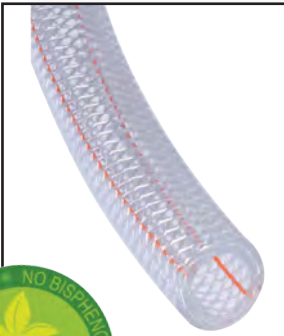
### Temperature Range:

-4°C to +65°C (+25°F to +150°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI @70°F	Weight lbs / ft	Standard Lengths
AR45-025	¼	0.46	150	0.07	100'
AR45-038	⅜	0.60	100	0.11	100'
AR45-050	½	0.75	100	0.15	100'
AR45-063	⅝	0.89	100	0.19	100'
AR45-075	¾	1.03	70	0.24	100'
AR45-100	1	1.30	70	0.33	100'
AR45-125	1¼	1.61	70	0.50	50'
AR45-150	1½	1.86	50	0.58	50'
AR45-200	2	2.39	50	0.84	50'
AR45-225	2¼	2.75	50	1.16	50'
AR45-250	2½	3.00	50	1.38	50'
AR45-300	3	3.50	50	1.62	50'

\*Call for additional fittings, lengths and assemblies.

## AR47 Food Grade PVC Clearbraided Heavy Wall



### Application:

A heavy wall, yarn reinforced hose suitable for a wide variety of food and beverage applications. Complies with applicable FDA requirements, meets USDA, 3A, NSF-51, UL, RoHS, and USP Class VI criteria.

### Construction:

**Tube and Cover** - Clear PVC

**Reinforcement** - High-tensile strength yarn



### Temperature Range:

-4°C to +65°C (+25°F to +150°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI @70°F	Weight lbs / ft	Standard Lengths
AR47-012	⅛	0.33	350	0.04	300'
AR47-019	⅜	0.41	350	0.06	300'
AR47-025	¼	0.50	350	0.08	300'
AR47-031	⅝	0.56	275	0.09	300'
AR47-038	¾	0.63	275	0.11	300'
AR47-050	½	0.81	250	0.17	300'
AR47-063	⅝	1.00	225	0.26	200'
AR47-075	¾	1.16	200	0.30	200'
AR47-100	1	1.38	150	0.38	200'
AR47-125	1¼	1.75	125	0.64	100'
AR47-150	1½	2.00	100	0.75	100'
AR47-200	2	2.50	75	0.96	100'

\*Call for additional fittings, lengths and assemblies.

WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## FB10 FOOD TRANSFER HOSE



**Application:**

A flexible hose for gravity flow, pressure, or suction service transferring edible products. Widely used in transportation, tank truck, in-plant services, and other applicable food transfer applications. FB10 will handle dry materials, fatty and oily foods, and liquids in various transfer applications.

**Construction:**

**Tube** - Oil resistant, white synthetic rubber. Meets FDA, USDA, 3-A, and PMO requirements

**Reinforcement** - Spiral plied synthetic fabric with a steel wire helix

**Cover** - Gray synthetic cover with white stripe

**Branding** - FLEXTRAL FB10-300 3" FLEX FOOD/BEVERAGE S+D 200 PSI MAX WP 230 DEG F MEETS FDA, USDA, 3-A

**Temperature Range:**

-29°C to +110°C (-20°F to +230°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
FB10-150	1½	2.00	250	5.0	0.95	100'
FB10-200	2	2.50	250	6.0	1.29	100'
FB10-250	2½	3.00	200	7.0	1.58	100'
FB10-300	3	3.63	200	8.0	2.05	100'
FB10-400	4	4.69	200	11.0	3.14	100'

\*Call for additional fittings, lengths and assemblies.

## FB12 FOOD & BEVERAGE HOSE



**Application:**

A quality sanitary suction and discharge hose designed to handle non-oily food products. Seamless extruded tube is highly resistant to CIP solutions, microbes, and bacteria. Meets FDA, USDA, 3A, and PMO sanitary requirements. Microbe and bacteria resistant tube.

**Construction:**

**Tube** - White chlorobutyl rubber

**Reinforcement** - Multiple plies with a steel spiral wire helix

**Cover** - Gray EPDM

**Branding** - FLEXTRAL FB12-200

**Temperature Range:**

-40°C to +107°C (-40°F to +225°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
FB12-100	1	1.63	150	4.0	0.75	131'
FB12-150	1½	2.19	150	6.0	1.05	131'
FB12-200	2	2.63	150	7.0	1.45	131'
FB12-250	2½	3.25	150	8.0	1.92	131'
FB12-300	3	3.75	150	9.0	2.47	131'
FB12-400	4	4.75	150	12.0	3.25	131'

\*Call for additional fittings, lengths and assemblies.

**!** WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>





## FB14 PREMIUM FOOD & BEVERAGE HOSE



### Application:

A premium flexible suction and discharge hose for use in the food and beverage industries. Suitable for wine, beer, potable water, high-alcoholic content alcohol (up to 95%), dairy products, and fruit juices. FDA (CFR 21 177.2600) Standard.

### Construction:

**Tube** - White, chlorobutyl rubber

**Reinforcement** - High-tensile textile reinforcements with a special formulated crush resistant wire  
**Cover** - Red, abrasion resistant semi corrugated, low coefficient of friction cover. Weather, ozone, oils, and fat resistant

**Branding** - FLEXTRAL FB14-200

### Temperature Range:

-30°C to +80°C (-22°F to +176°F); CIP (+130°C TO +266°F) for 30 Minutes



Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
FB14-150	1½	1.97	225	4.33	0.72	131'
FB14-200	2	2.52	225	5.71	0.98	131'
FB14-250	2½	3.01	225	7.48	1.20	131'
FB14-300	3	3.54	225	8.66	1.48	131'
FB14-400	4	4.61	225	13.78	2.02	131'

\*Call for additional fittings, lengths and assemblies.

## FB15 Premo-Food Transfer Hose



### Application:

A flexible hose for gravity flow, pressure, or suction service transferring edible products. Widely used in transportation, tank truck, in-plant services, and other applicable food transfer applications. FB15 will handle dry materials, fatty and oily foods, and liquids in various transfer applications.

### Construction:

**Tube** - Oil resistant, white synthetic rubber. Meets FDA and USDA 3-A, and Class 3 requirements

**Reinforcement** - Synthetic, high tensile textile with static-conductive filament; resilient monofilament helix providing crush and kink-resistance

**Cover** - Gray EPDM cover with purple stripe

**Branding** - FLEXTRAL FB15-300 3" PREMO-FOOD/BEVERAGE S+D 250 PSI MAX WP 230 DEG F MEETS FDA, USDA, 3-A

### Temperature Range:

-40°C to +110°C (-40°F to +230°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
FB15-075	¾	1.22	250	2.0	0.42	100'
FB15-100	1	1.48	250	3.0	0.52	100'
FB10-150	1½	2.07	250	4.5	0.90	100'
FB10-200	2	2.62	250	6.0	1.21	100'
FB10-250	2½	3.25	250	12.0	1.82	100'
FB10-300	3	3.86	250	18.0	2.46	100'
FB10-400	4	4.88	250	36.0	3.24	100'

\*Call for additional fittings, lengths and assemblies.



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## CP10 COMPO CARGO & OIL HOSE GG



### Application:

CP10 composite hose is extremely flexible and easy to handle. It is ideal for transfer of media from storage tanks and process piping to rail cars or tank trucks. Specifically engineered to handle oils, petroleum, diesel, lubricating oils, and paraffin. All hoses are 100% aromatic resistant, anti-static, electrically continuous and can be used for suction or discharge.

CP10 meets European Standards EN 13765:2010 Type 2 (BS 5842:1980), NAHAD 600/2005 and USCG.

### Construction:

Multiple plies of polypropylene films and fabrics between galvanized internal and galvanized external wire.

**Branding** - FLEXTRAL CP10-200 2" COMPO CARGO & OIL HOSE 200 PSI MAX WP GG

### Temperature Range:

-40°C to +100°C (-40°F to +212°F)

Part No.	I.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
CP10-075	¾	200	2.0	0.60	131'
CP10-100	1	200	2.0	0.74	131'
CP10-125	1¼	200	3.0	0.93	131'
CP10-150	1½	200	4.0	0.97	131'
CP10-200	2	200	6.0	1.31	131'
CP10-250	2½	200	8.0	1.66	131'
CP10-300	3	200	10.0	2.00	131'
CP10-400	4	200	12.0	3.24	131'

\*Other wire variations available upon request.

## CP12 HD MARINE COMPO CARGO & OIL HOSE GG



### Application:

CP12 hose is a heavy-duty hose for the transfer of wide variety of hydrocarbons under suction or pressure. CP12 hoses are used for ship-to-shore and ship-to-ship, dockside and general shipboard applications. All hoses are 100% aromatic resistant, anti-static, electrically continuous and can be used for suction or discharge. And many other industrial applications where a heavy-duty large bore hose assembly is required.

CP12 hose meets European Standards EN 13765:2010 Type 3 (BS 5842:1980), NAHAD 600/2005, USCG, DNV and Rina.

### Construction:

Multiple plies of polypropylene films and fabrics between galvanized internal and galvanized external wire.

**Branding** - FLEXTRAL CP12-600 6" HD MARINE COMPO CARGO & OIL HOSE 200 PSI MAX WP GG

### Temperature Range:

-40°C to +100°C (-40°F to +212°F)

Part No.	I.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
CP12-600	6	200	23.0	9.18	131'
CP12-800	8	200	32.0	12.40	131'
CP12-1000	10	200	40.0	17.84	82'
CP12-1200	12	200	48.0	25.17	82'

\*Other wire variations available upon request.



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## CP17 COMPO FUEL DELIVERY HOSE AP



### Application:

Lightweight, extremely flexible, and easy to handle and bend. CP17 is a hose designed for the transfer of fuels, chemicals, or hydrocarbon products under suction or pressure. This special construction gives extreme protection against the abrasion of the outside wall of the hose, and avoids possible damage to the truck body paint. The CP17 type AP, has been specifically designed to transfer the Ethanol based Diesel, Bio Diesel, leaded and unleaded fuels.

CP17 Meets the European Standards EN 13765:2010 Type 2 (BS 5842:1980).

### Construction:

Multiple plies of polypropylene films and fabrics between aluminum internal and polypropylene coated aluminum external wire.

**Branding** - FLEXTRAL CP17-300 3" COMPO FUEL DELIVERY HOSE 100 PSI MAX WP AP

### Temperature Range:

-35°C to +81°C (-31°F to +180°F)

Part No.	I.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
CP17-200	2	100	4.0	0.80	131'
CP17-300	3	100	6.3	1.18	131'
CP17-400	4	100	9.8	1.65	131'

\*Other wire variations available upon request.



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## CP18 COMPO CARGO VAPOR HOSE



### Application:

General purpose hose ideal for use in petroleum and petrochemical vapor recovery systems. CP18 is manufactured according to the BS 3492 - BX Class 1 for aviation fuels. Complies with USCG Marine Vapor control system 33CFR Part 154.810. 100% anti-static, electrically continuous. Meets EN, CE, U.S. Coast Guard requirements, NAHAD Guidelines, DNV Approved. ATEX on request.

### Construction:

CP18 is a multi-layer thermoplastic hose manufactured from polypropylene, polyethylene, polyester films and polypropylene fabrics, with a weather-proof and abrasion resistant outer cover made of polymeric coated polyester fabric. All the different layers are wrapped together and tensioned between galvanized internal and external wires. This enables our product to meet the requirement of the petrol-chemical industry and those of the oil tank truck industry.

**Branding - FLEXTAL CP18-800 8" VAPOR RECOVERY HOSE 100 PSI MAX WP GG**

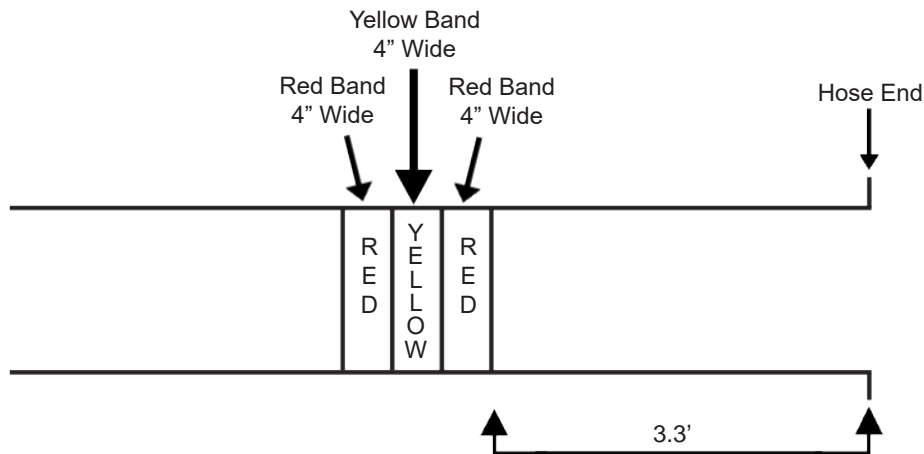
### Temperature Range:

-20°C to +80°C (-4°F to +176°F)

Part No.	I.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight (lbs./ft.)	Vacuum	Standard Lengths
CP18-800	8	150	29.0	7.19	Full	131'

**Sizes:** Other sizes available upon request.

**Note:** Flextral vapor recovery hoses are manufactured to meet or exceed U.S. Coast Guard requirements in Federal Register volume 33 CFR chapter 1, sub-titled "Vapor Recovery Connections" paragraph 154-810 dated 7.1.98. All vapor recovery hose are manufactured with a bright yellow cover and 2" VAPOR logo. Each are marked red/yellow/red on each end and flanges have .625 pilot holes on each end.



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## CP20 COMPO CHEM HOSE PG



### Application:

CP20 is a general purpose hose for the transfer of a wide variety of chemicals for both suction and discharge applications. It is extremely flexible and easy to handle. CP20 is designed for in-plant liquid transfer operations as well as tank truck delivery, rail car loading and unloading. This hose is 100% aromatic resistant and anti-static, electrically continuous.

CP20 meets European Standards EN 13765:201 O Type 2 (BS 5842: 1980), NAHAD 600/2005, and USCG.

### Construction:

Multiple plies of polypropylene films and fabrics between polypropylene coated steel internal and galvanized external wire.

**Branding** - FLEXTAL CP20-300 3" COMPO CHEM HOSE 200 PSI MAX WP PG

### Temperature Range:

-31°C to +81°C (-31°F to +180°F)

Part No.	I.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
CP20-075	¾	200	2.0	0.52	131'
CP20-100	1	200	2.0	0.62	131'
CP20-125	1¼	200	3.0	0.71	131'
CP20-150	1½	200	4.0	0.82	131'
CP20-200	2	200	6.0	1.24	131'
CP20-250	2½	200	8.0	1.48	131'
CP20-300	3	200	10.0	1.77	131'
CP20-400	4	200	12.0	2.87	131'

\*Other wire variations available upon request.

## CP22 HD MARINE COMPO CHEM HOSE PG



### Application:

CP22 HD MARINE is a heavy-duty hose for the transfer of a wide variety of chemicals under suction or pressure. CP22 hoses are used for ship-to-shore and ship-to-ship, dockside and general shipboard use. All hoses are 100% aromatic, anti-static, electrically continuous and can be used for suction or discharge and many other industrial applications where a heavy-duty large bore hose assembly is required.

CP22 HD MARINE meets European Standards EN 13765:2010 Type 3 (BS 5842: 1980), NAHAD 600/2005, DNV, Rina and USCG.

### Construction:

Multiple plies of polypropylene films and fabrics between polypropylene coated steel internal and galvanized external wire.

**Branding** - FLEXTAL CP22-1200 12" HD MARINE COMPO CHEM HOSE 200 PSI MAX WP PG

### Temperature Range:

-40°C to +100°C (-40°F to +212°F)

Part No.	I.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
CP22-600	6	200	23.0	7.92	131'
CP22-800	8	200	32.0	10.18	131'
CP22-1000	10	200	40.0	18.89	82'
CP22-1200	12	200	48.0	25.10	82'

\*Other wire variations available upon request.



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## CP40 COMPO PTFE CHEM HOSE SS



### Application:

Specifically designed as a universal hose for the transfer of a wide variety of aggressive chemicals under suction or pressure. CP40 PTFE hoses are used in such applications as transfer for rail and road tanker, loading and unloading; storage tank and in-plant use. This universal hose can help eliminate the costly redundancy of inventory to maintain the various hose constructions usually required. Extremely flexible, easy to handle. All hoses are 100% aromatic resistant, anti-static, electrically continuous and can be used for suction or discharge.

CP40 PTFE Meets the European Standards EN 13765:2010 Type 3 (BS 5842:1980), NAHAD 600/2005 and USCG

### Construction:

CP40 PTFE is a multi-layer thermoplastic hose designed around several PTFE liners, supported by a 316 stainless steel internal and 316 stainless steel external wire.

**Branding** - FLEXTRAL CP40-300 3" COMPO PTFE CHEM HOSE 200 PSI MAX WP SS

### Temperature Range:

-35°C to +80°C (-31°F to +180°F)

Part No.	I.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
CP40-075	¾	200	2.0	0.53	131'
CP40-100	1	200	2.0	0.66	131'
CP40-125	1¼	200	3.0	0.74	131'
CP40-150	1½	200	4.0	0.82	131'
CP40-200	2	200	6.0	1.24	131'
CP40-250	2½	200	8.0	1.48	131'
CP40-300	3	200	10.0	1.77	131'
CP40-400	4	200	12.0	2.86	131'

\*Other wire variations available upon request.



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## CP50 COMPO WATER PUMP HOSE



**Application:**

CP50 is a heavy-duty composite hose for the suction and discharge of water. CP50 is used in a wide variety of pump applications. All CP50 hoses come standard with 150# Fixed x Floating Flanges.

**Construction:**

**Tube** - Multiple layers of polypropylene fabrics

**Reinforcement** - Internal and external galvanized carbon steel wire

**Cover** - Blue, weather-proof and abrasion resistant polymeric coated polyester fabric

**Branding** - FLEXTRAL CP50-400 4" COMPO WATER HOSE 200 PSI MAX WP

**Temperature:**

-40°C to +81°C (-40°F to +178°F)

Part No.	I.D. Inches	Max W.P. PSI	Bend Radius Inches	Weight lbs / ft	Standard Lengths
CP50-400	4	200	16.0	3.29	10'/20'
CP50-600	6	200	23.0	8.67	10'/20'
CP50-800	8	200	31.0	13.51	10'/20'
CP50-1000	10	200	39.0	17.81	10'/20'
CP50-1200	12	200	47.0	21.37	10'/20'

\*Other wire variations available upon request.

## CP50 COMPO WATER PUMP HOSE ASSEMBLIES



Part No.	Hose Size & Length	End 1	End 2	Attaching Method
CP50-400FLXF010-CS-1	4" x 10'	150# Fixed Flange	150# Floating Flange	Crimped
CP50-400FLXF020-CS-1	4" x 20'	150# Fixed Flange	150# Floating Flange	Crimped
CP50-600FLXF010-CS-1	6" x 10'	150# Fixed Flange	150# Floating Flange	Crimped
CP50-600FLXF020-CS-1	6" x 20'	150# Fixed Flange	150# Floating Flange	Crimped
CP50-800FLXF010-CS-1	8" x 10'	150# Fixed Flange	150# Floating Flange	Crimped
CP50-800FLXF020-CS-1	8" x 20'	150# Fixed Flange	150# Floating Flange	Crimped
CP50-1000FLXF010-CS-1	10" x 10'	150# Fixed Flange	150# Floating Flange	Crimped
CP50-1000FLXF020-CS-1	10" x 20'	150# Fixed Flange	150# Floating Flange	Crimped
CP50-1200FLXF010-CS-1	12" x 10'	150# Fixed Flange	150# Floating Flange	Crimped
CP50-1200FLXF020-CS-1	12" x 20'	150# Fixed Flange	150# Floating Flange	Crimped



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## COMPOSITE FERRULES



### PLATED STEEL FERRULES

Part No.	Hose Size
CPF-075-PS	3/4"
CPF-100-PS	1"
CPF-125-PS	1 1/4"
CPF-150-PS	1 1/2"
CPF-200-PS	2"
CPF-250-PS	2 1/2"
CPF-300-PS	3"
CPF-400-PS	4"
CPF-600-PS	6"
CPF-800-PS	8"
CPF-1000-PS	10"
CPF-1200-PS	12"

### STAINLESS STEEL FERRULES

Part No.	Hose Size
CPF-075-SS	3/4"
CPF-100-SS	1"
CPF-125-SS	1 1/4"
CPF-150-SS	1 1/2"
CPF-200-SS	2"
CPF-250-SS	2 1/2"
CPF-300-SS	3"
CPF-400-SS	4"
CPF-600-SS	6"
CPF-800-SS	8"
CPF-1000-SS	10"
CPF-1200-SS	12"

### ALUMINUM FERRULES

Part No.	Hose Size
CPF-200-AL	2"
CPF-300-AL	3"
CPF-400-AL	4"

## COMPOSITE GASKETS



### NBR GASKETS

Part No.	Hose Size
CPS-075-NR	3/4"
CPS-100-NR	1"
CPS-125-NR	1 1/4"
CPS-150-NR	1 1/2"
CPS-200-NR	2"
CPS-250-NR	2 1/2"
CPS-300-NR	3"
CPS-400-NR	4"
CPS-600-NR	6"
CPS-800-NR	8"

### VITON GASKETS

Part No.	Hose Size
CPS-075-VI	3/4"
CPS-100-VI	1"
CPS-125-VI	1 1/4"
CPS-150-VI	1 1/2"
CPS-200-VI	2"
CPS-250-VI	2 1/2"
CPS-300-VI	3"
CPS-400-VI	4"
CPS-600-VI	6"
CPS-800-VI	8"

### EPDM GASKETS

Part No.	Hose Size
CPS-075-EP	3/4"
CPS-100-EP	1"
CPS-125-EP	1 1/4"
CPS-150-EP	1 1/2"
CPS-200-EP	2"
CPS-250-EP	2 1/2"
CPS-300-EP	3"
CPS-400-EP	4"
CPS-600-EP	6"
CPS-800-EP	8"

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**COMPOSITE FIXED FLANGES**



**PLATED STEEL  
FIXED FLANGE**

Part No.	Hose Size
CPFF-150-PS	1 1/2"
CPFF-200-PS	2"
CPFF-250-PS	2 1/2"
CPFF-300-PS	3"
CPFF-400-PS	4"
CPFF-600-PS	6"
CPFF-800-PS	8"
CPFF-1000-PS	10"
CPFF-1200-PS	12"

**316 STAINLESS  
STEEL FIXED FLANGE**

Part No.	Hose Size
CPFF-150-S6	1 1/2"
CPFF-200-S6	2"
CPFF-250-S6	2 1/2"
CPFF-300-S6	3"
CPFF-400-S6	4"
CPFF-600-S6	6"
CPFF-800-S6	8"
CPFF-1000-S6	10"
CPFF-1200-S6	12"

**COMPOSITE TURN BACK AND FLOATING FLANGES**



**PLATED STEEL  
TURN BACK**

Part No.	Hose Size
CPTB-150-PS	1 1/2"
CPTB-200-PS	2"
CPTB-250-PS	2 1/2"
CPTB-300-PS	3"
CPTB-400-PS	4"
CPTB-600-PS	6"
CPTB-800-PS	8"
CPTB-1000-PS	10"
CPTB-1200-PS	12"

**PLATED STEEL  
TURN BACK**

Part No.	Hose Size
CPTB-150-S6	1 1/2"
CPTB-200-S6	2"
CPTB-250-S6	2 1/2"
CPTB-300-S6	3"
CPTB-400-S6	4"
CPTB-600-S6	6"
CPTB-800-S6	8"
CPTB-1000-S6	10"
CPTB-1200-S6	12"

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## COMPOSITE FEMALE CAMLOCKS



### ALUMINUM FEMALE CAMLOCK

Part No.	Hose Size
CPAL-C150	1 1/2"
CPAL-C200	2"
CPAL-C250	2 1/2"
CPAL-C300	3"
CPAL-C400	4"

### STAINLESS STEEL FEMALE CAMLOCK

Part No.	Hose Size
CPSS-C150	1 1/2"
CPSS-C200	2"
CPSS-C250	2 1/2"
CPSS-C300	3"
CPSS-C400	4"

## COMPOSITE MALE CAMLOCKS



### ALUMINUM MALE CAMLOCK

Part No.	Hose Size
CPAL-E150	1 1/2"
CPAL-E200	2"
CPAL-E250	2 1/2"
CPAL-E300	3"
CPAL-E400	4"

### STAINLESS STEEL MALE CAMLOCK

Part No.	Hose Size
CPSS-E150	1 1/2"
CPSS-E200	2"
CPSS-E250	2 1/2"
CPSS-E300	3"
CPSS-E400	4"

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## COMPOSITE MALE NPT ENDS



**PLATED STEEL  
MALE NPT**

Part No.	Hose Size
CPT-075-PS	3/4"
CPT-100-PS	1"
CPT-125-PS	1 1/4"
CPT-150-PS	1 1/2"
CPT-200-PS	2"
CPT-250-PS	2 1/2"
CPT-300-PS	3"
CPT-400-PS	4"
CPT-600-PS	6"

**316 STAINLESS  
STEEL MALE NPT**

Part No.	Hose Size
CPT-075-S6	3/4"
CPT-100-S6	1"
CPT-125-S6	1 1/4"
CPT-150-S6	1 1/2"
CPT-200-S6	2"
CPT-250-S6	2 1/2"
CPT-300-S6	3"
CPT-400-S6	4"
CPT-600-S6	6"



**ALUMINUM  
MALE NPT**

Part No.	Hose Size
CPT-075-AL	3/4"
CPT-100-AL	1"
CPT-125-AL	1 1/4"
CPT-150-AL	1 1/2"
CPT-200-AL	2"
CPT-250-AL	2 1/2"
CPT-300-AL	3"
CPT-400-AL	4"

**POLYPROPYLENE  
MALE NPT**

Part No.	Hose Size
CPT-075-PP	3/4"
CPT-100-PP	1"
CPT-125-PP	1 1/4"
CPT-150-PP	1 1/2"
CPT-200-PP	2"
CPT-250-PP	2 1/2"
CPT-300-PP	3"
CPT-400-PP	4"

## COMPOSITE VICTAULIC ENDS



**PLATED STEEL  
VICTAULIC**

Part No.	Hose Size
CPG-200-PS	2"
CPG-300-PS	3"
CPG-400-PS	4"
CPG-600-PS	6"
CPG-800-PS	8"
CPG-1000-PS	10"
CPG-1200-PS	12"

**316 STAINLESS  
VICTAULIC**

Part No.	Hose Size
CPG-200-S6	2"
CPG-300-S6	3"
CPG-400-S6	4"

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## ST10 CHLOROBUTYL



### Application:

ST10 is a compact, slim profile hose designed for long-lasting steam service—one of the toughest applications for hose, where the hot-cold/wet-dry cycling attacks rubber compounds externally as well as internally. The hose construction incorporates premium, high-performance chlorobutyl in both the tube and the cover, providing extreme heat resistance, durability, performance, and service life. The wire braid reinforcement provides crush-resistant durability, kink resistance and a path to conduct a static electrical charge to ground, and the cover resists abrasion, cracking, hardening and ozone. ST10 is qualified with crimp couplings for maintenance-free service. The traditional bolt style clamps and ground joint fittings can also be used with this hose.

### Construction:

**Tube** - Black chlorobutyl

**Reinforcement** - Multiple wire braid

**Cover** - Black or Red EPDM, perforated wrapped finish

**Safety Ratio** - ¾" & 1" are 20 to 1 and 2" are 10 to 1

### Temperature Range:

-18°C to +208°C (0°F to +406°F) Saturated/Superheated Steam

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths	Crimp	Clamp
ST10-075RD	¾	1.28	250	0.64	50'	Yes	Yes
ST10-100RD	1	1.55	250	0.81	50'	Yes	Yes
ST10-200RD	2	2.50	250	1.70	50'	Yes	Yes

\***Note:** RD indicated RED hose. Also available in black - BK indicates BLACK hose.



WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

## ST11 CHLOROBUTYL



### Application:

ST11 series steam hose is a distinctive hose designed for long-lasting steam service—one of the toughest applications for hose, where the hot-cold/wet-dry cycling attacks rubber compounds externally as well as internally. The hose construction incorporates a premium, high-performance chlorobutyl tube which resists heat and popcorning, and a wire braid reinforcement for crush-resistant durability, kink resistance and a path to conduct a static electrical charge to ground. The EPDM cover resists abrasion, cracking, hardening, and ozone. The red/black barber pole cover provides color-coded identification from all angles and great distances. ST11 series steam hose is qualified with crimp couplings for easy and quick assembly fabrication as well as maintenance-free service. The traditional bolt style clamps and ground joint couplings can also be used on this hose.

### Construction:

**Tube** - Black chlorobutyl

**Reinforcement** - Multiple wire braid

**Cover** - Red and Black striped EPDM; perforated wrapped finish

**Safety Ratio** - 1/2", 3/4" & 1" are 20 to 1

### Temperature Range:

-29°C to +208°C (-20°F to +406°F) Saturated Steam

+232°C (+450°F) Superheated Steam

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths	Crimp	Clamp
ST11-050	1/2	1.03	250	0.50	50'	Yes	Yes
ST11-075	3/4	1.28	250	0.64	50'	Yes	Yes
ST11-100	1	1.55	250	0.81	50'	Yes	Yes



WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

## ST15 EPDM



### Application:

ST15 steam hose is a traditional hose designed for long-lasting steam service, one of the toughest applications for hose, where the hot-cold/wet-dry cycling attacks rubber compounds externally as well as internally. The hose construction incorporates an EPDM tube that resists heat and popcorning, and a wire braid reinforcement for crush-resistant durability, kink resistance, and a path to conduct a static electrical charge to ground. The EPDM cover is resistant to abrasion, cracking, hardening and ozone; there is a red cover option that provides color-coded identification. Our ST15 hose can be used with traditional bolt clamp style fittings as well as crimp fittings.

### Construction:

**Tube** - Black EPDM

**Reinforcement** - Multiple wire braids

**Cover** - Black or Red EPDM; perforated wrapped finish

**Safety Ratio** - 1/2", 3/4" & 1" are 20 to 1 and 1 1/4", 1 1/2" & 2" are 10 to 1

### Temperature Range:

-29°C to +208°C (-20°F to +406°F) Saturated Steam

-29°C to +232°C (-20°F to +450°F) Superheated Steam

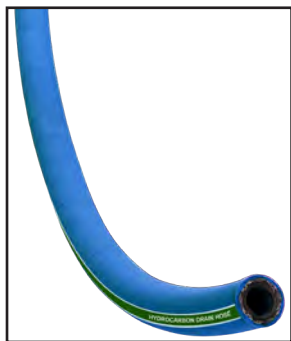
Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths	Crimp	Clamp
ST15-050BK	1/2	0.95	250	0.37	50'	Yes	Yes
ST15-075BK	3/4	1.20	250	0.47	50'	Yes	Yes
ST15-100BK	1	1.47	250	0.63	50'	Yes	Yes
ST15-125BK	1 1/4	1.88	250	1.14	50'	Yes	Yes
ST15-150BK	1 1/2	2.19	250	1.44	50'	Yes	Yes
ST15-200BK	2	2.67	250	1.76	50'	Yes	Yes

\***Note:** BK indicates a BLACK hose. Also available in red -- RD indicates a RED hose.



WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

## ST90 HYDROCARBON DRAIN HOSE



**Application:**

Designed to evacuate liquid residue from steam cleaning operations in manufacturing, processing plants and refineries. The high-temperature, oil resistant tube and cover withstand attack by steam vapors and petroleum based run off. NOT FOR STEAM USE.

**Construction:**

**Tube** - Black nitrile; ARPM Class A oil resistance

**Reinforcement** - One wire braid

**Cover** - Blue chloroprene, wrapped finish

**Temperature Range:**

-29°C to +149°C (-20°F to +300°F)

+177°C (+350°F) Intermittent

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Weight lbs / ft	Standard Lengths	Crimp	Clamp
ST90-075	¾	1.2	350	0.52	50'	Yes	Yes
ST90-100	1	1.5	350	0.76	50'	Yes	Yes

 WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## STEAM FITTINGS



**Male NPTF**

Part No.	Size
STCA050-050MP	1/2"
STCA075-075MP	3/4"
STCA100-100MP	1"
STCA125-125MP	1 1/4"
STCA150-150MP	1 1/2"
STCA200-200MP	2"



**Female Ground Joint**

Part No.	Size
STCA075-075FGJ	3/4"
STCA100-100FGJ	1"



**Female NPT Adapter**

Part No.	Size
GJFS-075	3/4"
GJFS-100	1"
GJFS-125	1 1/4"
GJFS-150	1 1/2"
GJFS-200	2"



WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## SA164 HOSEMASTER ANNUFLEX™



### Application:

For use with petroleum, chemical, steel, and power generation plants. Annuflex is also used in heating, pump, ventilation, and air conditioning systems. It is designed for hot or cold media transfers, such as hot oil and lube oil transfers. Can also be used for jump lines and loading arms or terminal loading/off loading products.

### Construction:

**Tube** - 316 Annular corrugated stainless steel

**Reinforcement** - 304 stainless steel single braid

**Characteristics** - Lightweight and moderate flexibility

### Temperature Range:

-267°C to +648°C (-450°F to +1200°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Static Bend Radius Inches	Dynamic Bend Radius Inches	Weight lbs / ft	Standard Lengths
SA164-025	¼	0.47	1800	1.0	4.5	0.11	Upon Request
SA164-038	⅜	0.73	1558	1.2	5.0	0.21	Upon Request
SA164-050	½	0.83	1186	1.5	5.5	0.22	Upon Request
SA164-063	⅝	1.02	1205	1.8	7.0	0.33	Upon Request
SA164-075	¾	1.22	898	2.1	8.0	0.37	Upon Request
SA164-100	1	1.53	718	2.7	9.0	0.50	Upon Request
SA164-125	1¼	1.83	645	3.1	10.0	0.61	Upon Request
SA164-150	1½	2.16	531	3.9	11.0	0.85	Upon Request
SA164-200	2	2.69	449	5.1	13.0	1.11	Upon Request
SA164-250	2½	3.50	417	6.8	16.0	1.64	Upon Request
SA164-300	3	3.98	346	7.8	18.0	2.06	Upon Request
SA164-400	4	5.06	299	9.8	22.0	2.69	Upon Request
SA164-500	5	6.12	275	12.8	28.0	3.61	Upon Request
SA164-600	6	7.13	210	14.8	32.0	4.44	Upon Request



WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## SA114 HOSEMASTER ANNUFLEX™



### Application:

For use with petroleum, chemical, steel, and power generation plants. Annuflex is also used in heating, pump, ventilation, and air conditioning systems. It is designed for hot or cold media transfers, such as hot oil and lube oil transfers. Can also be used for jump lines and loading arms or terminal loading/off loading products.

### Construction:

**Tube** - 321 Annular corrugated stainless steel

**Reinforcement** - 304 stainless steel single braid

**Characteristics** - Lightweight and moderate flexibility

### Temperature Range:

-267°C to +648°C (-450°F to +1200°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Static Bend Radius Inches	Dynamic Bend Radius Inches	Weight lbs / ft	Standard Lengths
SA114-025	¼	0.47	1800	1.0	4.5	0.11	Upon Request
SA114-038	⅜	0.73	1558	1.2	5.0	0.21	Upon Request
SA114-050	½	0.83	1186	1.5	5.5	0.22	Upon Request
SA114-063	⅝	1.02	1205	1.8	7.0	0.33	Upon Request
SA114-075	¾	1.22	898	2.1	8.0	0.37	Upon Request
SA114-100	1	1.53	718	2.7	9.0	0.50	Upon Request
SA114-125	1¼	1.83	645	3.1	10.0	0.61	Upon Request
SA114-150	1½	2.16	531	3.9	11.0	0.85	Upon Request
SA114-200	2	2.69	449	5.1	13.0	1.11	Upon Request
SA114-250	2½	3.50	417	6.8	16.0	1.64	Upon Request
SA114-300	3	3.98	346	7.8	18.0	2.06	Upon Request
SA114-400	4	5.06	299	9.8	22.0	2.69	Upon Request
SA114-500	5	6.12	275	12.8	28.0	3.61	Upon Request
SA114-600	6	7.13	210	14.8	32.0	4.44	Upon Request

 **WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## SM114 HOSEMASTER MASTERFLEX™



### Application:

For use with petroleum, chemical, steel, and power generation plants. Masterflex is also used in heating, pump, ventilation, and air conditioning systems. It is designed for hot or cold media transfers, such as hot oil and lube oil transfers. Can also be used for jump lines and loading arms or terminal loading/off loading products. It is manufactured using the same high quality process used to make Annuflex hose, but the number of corrugations per foot is increased to allow for greater flexibility.

### Construction:

**Tube** - 321 corrugated stainless steel

**Reinforcement** - 304 stainless steel single braid

**Characteristics** - Extra flexible for ease of installation

### Temperature Range:

-267°C to +648°C (-450°F to +1200°F)

Part No.	I.D. Inches	O.D. Inches	Max W.P. PSI	Static Bend Radius Inches	Dynamic Bend Radius Inches	Weight lbs / ft	Standard Lengths
SM114-025	¼	0.48	1800	0.9	3.7	0.14	Upon Request
SM114-038	⅜	0.73	1558	1.0	4.0	0.25	Upon Request
SM114-050	½	0.83	1186	1.2	4.4	0.32	Upon Request
SM114-063	⅝	1.02	1205	1.4	5.6	0.37	Upon Request
SM114-075	¾	1.22	898	1.7	6.4	0.53	Upon Request
SM114-100	1	1.53	718	2.1	7.1	0.76	Upon Request
SM114-125	1¼	1.83	645	2.5	7.9	1.00	Upon Request
SM114-150	1½	2.16	531	3.1	8.7	1.16	Upon Request
SM114-200	2	2.69	449	4.0	10.3	1.44	Upon Request
SM114-250	2½	3.50	417	5.4	12.8	2.16	Upon Request
SM114-300	3	3.98	346	6.3	14.5	2.50	Upon Request
SM114-400	4	5.06	299	7.7	17.4	3.90	Upon Request
SM114-500	5	6.12	275	10.0	21.9	5.53	Upon Request
SM114-600	6	7.13	210	11.6	25.0	6.34	Upon Request



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## STAINLESS STEEL METAL HOSE



### Application:

For use with petroleum, chemical, steel, and power generation plants. Can also be used in heating, pump, ventilation, and air conditioning systems. It is designed for hot or cold media transfers, such as hot oil and lube oil transfers. Can also be used for jump lines and loading arms or terminal loading/off loading products.

### Construction:

**Tube** - 316 corrugated stainless steel

**Reinforcement** - 304 stainless steel single and double braid

**Ends** - 316 stainless fixed x floating 150# flanges

**Characteristics** - Lightweight and moderate flexibility

### Temperature Range:

-267°C to +648°C (-450°F to +1200°F)

## 150# 316 SS FIXED x FLOATING FLANGE ASSEMBLIES



Part No.	Hose Size & Length	End 1	End 2
SX164-200FL010-S6-1	2" x 10'	150# Fixed Flange	150# Floating Flange
SX164-200FL020-S6-1	2" x 20'	150# Fixed Flange	150# Floating Flange
SX164-300FL010-S6-1	3" x 10'	150# Fixed Flange	150# Floating Flange
SX164-300FL020-S6-1	3" x 20'	150# Fixed Flange	150# Floating Flange
SX164-400FL020-S6-1	4" x 20'	150# Fixed Flange	150# Floating Flange
SX164-600FL010-S6-1	6" x 10'	150# Fixed Flange	150# Floating Flange
SX164-600FL020-S6-1	6" x 20'	150# Fixed Flange	150# Floating Flange
SX164-800FL010-S6-1	8" x 10'	150# Fixed Flange	150# Floating Flange
SX164-800FL020-S6-1	8" x 20'	150# Fixed Flange	150# Floating Flange
SX164-1000FL010-S6-1	10" x 10'	150# Fixed Flange	150# Floating Flange
SX164-1000FL020-S6-1	10" x 20'	150# Fixed Flange	150# Floating Flange
SX164-1200FL010-S6-1	12" x 10'	150# Fixed Flange	150# Floating Flange
SX164-1200FL020-S6-1	12" x 20'	150# Fixed Flange	150# Floating Flange



Part No.	Hose Size & Length	End 1	End 2
SX264-200FL010-S6-1	2" x 10'	150# Fixed Flange	150# Floating Flange
SX264-200FL020-S6-1	2" x 20'	150# Fixed Flange	150# Floating Flange
SX264-300FL010-S6-1	3" x 10'	150# Fixed Flange	150# Floating Flange
SX264-300FL020-S6-1	3" x 20'	150# Fixed Flange	150# Floating Flange
SX264-400FL020-S6-1	4" x 20'	150# Fixed Flange	150# Floating Flange
SX264-600FL010-S6-1	6" x 10'	150# Fixed Flange	150# Floating Flange
SX264-600FL020-S6-1	6" x 20'	150# Fixed Flange	150# Floating Flange
SX264-800FL010-S6-1	8" x 10'	150# Fixed Flange	150# Floating Flange
SX264-800FL020-S6-1	8" x 20'	150# Fixed Flange	150# Floating Flange
SX264-1000FL010-S6-1	10" x 10'	150# Fixed Flange	150# Floating Flange
SX264-1000FL020-S6-1	10" x 20'	150# Fixed Flange	150# Floating Flange
SX264-1200FL010-S6-1	12" x 10'	150# Fixed Flange	150# Floating Flange
SX264-1200FL020-S6-1	12" x 20'	150# Fixed Flange	150# Floating Flange



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## METAL HOSE TEMPERATURE DERATING

To calculate a working pressure derated for elevated temperature, multiply the hose working pressure shown in the catalog by the appropriate derating factor below.

**Note:** The working pressure of an assembly at elevated temperatures may be affected by fitting type, material, and method of attachment.

Temp, Deg °F	T304 T301*	T304L	T316	T316L	T321	T430	Copper	C276	"Monel 400 & C22"	Inconel 600	Inconel 625	Carbon Steel**	Alum. 3003 H14
100	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
200	1.0	1.0	1.0	1.0	1.0	1.0	0.8	1.0	0.88	1.0	1.0	1.0	1.0
300	1.0	1.0	1.0	1.0	1.0	0.98	0.78	1.0	0.82	1.0	1.0	1.0	0.64
400	0.94	0.93	0.97	0.93	1.0	0.96	0.50	1.0	0.79	1.0	1.0	1.0	0.34
500	0.88	0.86	0.90	0.86	0.96	0.95	0.13	0.99	0.79	1.0	0.97	0.95	
600	0.82	0.81	0.85	0.81	0.91	0.93		0.93	0.79	1.0	0.95	0.87	
650	0.81	0.79	0.84	0.79	0.89	0.91		0.9	0.79	1.0	0.94	0.85	
700	0.80	0.77	0.82	0.77	0.87	0.88		0.88	0.79	1.0	0.93	0.83	
750	0.78	0.75	0.81	0.75	0.86	0.86		0.86	0.79	1.0	0.93	0.65	
800	0.76	0.74	0.80	0.74	0.84	0.82		0.84	0.79	1.0	0.93	0.54	
850	0.75	0.72	0.79	0.72	0.84	0.52		0.83	0.79	0.99	0.93	0.44	
900	0.73	0.71	0.78	0.71	0.83	0.49		0.82	0.76	0.95	0.93	0.33	
950	0.72	0.69	0.77	0.69	0.81	0.43		0.81	0.71	0.95	0.93	0.23	
1,000	0.69	0.67	0.77	0.67	0.81			0.8			0.93		
1,050	0.61	0.65	0.73	0.65	0.7			0.68		0.42	0.93		
1,100	0.49	0.61	0.62	0.61	0.55	0.32		0.55	0.48	0.27	0.69		
1,150	0.39	0.53	0.49	0.52	0.41			0.47		0.20	0.57		
1,200	0.30	0.38	0.37	0.38							0.36		
1,250	0.24	0.28	0.28	0.28	0.32			0.36					
1,300		0.21	0.21	0.21	0.25			0.29					
<b>ASTM Form</b>	A269 Pipe	A269 Pipe	A269 Pipe	A269 Pipe	A312 Pipe	A268 Pipe	B68 Tube	B622 Pipe	B165 Pipe	B167 Pipe	B443 Pipe	A53 Pipe	B210 Pipe

\*\*Do not use for temperatures lower than 32°F.

 **WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## METAL HOSE FITTINGS



For material, add suffix as follows:

-CS: Carbon Steel

-S4: 304 Stainless Steel

### WNT Toe Nipple

Part No.	Size
WNT-025	1/4"
WNT-050	1/2"
WNT-075	3/4"
WNT-100	1"
WNT-125	1 1/4"
WNT-150	1 1/2"
WNT-200	2"
WNT-300	3"
WNT-400	4"



For material, add suffix as follows:

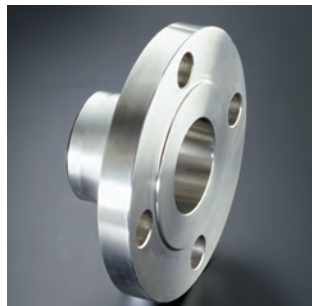
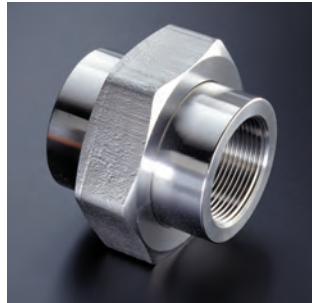
-CS: Carbon Steel

-S4: 304 Stainless Steel

-S6: 316 Stainless Steel

### WNH Hex Nipple

Part No.	Size
WNH-025	1/4"
WNH-050	1/2"
WNH-075	3/4"
WNH-100	1"
WNH-125	1 1/4"
WNH-150	1 1/2"
WNH-200	2"
WNH-300	3"
WNH-400	4"



\*Call for additional configurations.

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## HEATING & COOLING DUCT HOSE



High quality ducting available in a multitude of color combinations, constructions, and cuff options to accommodate all environments and applications.

### Features:

- Expanded pitch allows compression up to one-seventh of its total extended length
- Excellent UV stabilization with mold and mildew inhibitors for rigorous outdoor use
- Flame resistant in accordance with UL94 VTM-O, California Fire Marshal, and NFPA 701 Method 2 specifications



Size (ID)	10", 12", 14", 16", 18", 20", 24"
Length	15', 25'
Inside Diameter	6"-36" (150-900 mm)
Color	White/White, White/Black, Yellow/Black, Black/Black
Temperature	-40°F to 180°F (-40°C to 82°C) - (Higher-Temp. Available Call for details)
Standard End	Wire rope, Hoop coupling
Optional End Finishes	Belt cuff, Soft cuff, Screw clamp cuff, Zipper cuff
Optional Wearstrip	Heavy-duty extruded, or Light-duty PVC fabric

**\*\*Additional lengths, color combinations, end figurations, and ducting types are available. Please call for more details.**

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## DU90 & DU91 BI-DIRECTIONAL

**Application:**

HVAC conditioned air supply (7" pitch) and return (4" pitch). Duct is phthalate free, UV, mold, and mildew resistant. Welded construction allows Bi-Directional air flow. Hooped ends standard.



Part No.	Size & Length	Type	Max Temp.	Pitch	Grommeted/ Non-Grommeted	Body Color/ Wear Strip
DU90-1025WW	10" x 25'	Air Ducting - Return	180°F	4"	Non-Grommeted	White/White
DU90-1225WW	12" x 25'	Air Ducting - Return	180°F	4"	Non-Grommeted	White/White
DU90-2025WW	20" x 25'	Air Ducting - Return	180°F	4"	Non-Grommeted	White/White
DU91-1215WW	12" x 15'	Air Ducting - Supply	180°F	7"	Non-Grommeted	White/White
DU91-1225WW	12" x 25'	Air Ducting - Supply	180°F	7"	Non-Grommeted	White/White
DU91-1415WW	14" x 15'	Air Ducting - Supply	180°F	7"	Non-Grommeted	White/White
DU91-1425WW	14" x 25'	Air Ducting - Supply	180°F	7"	Non-Grommeted	White/White
DU91-1615WW	16" x 15'	Air Ducting - Supply	180°F	7"	Non-Grommeted	White/White
DU91-1625WW	16" x 25'	Air Ducting - Supply	180°F	7"	Non-Grommeted	White/White
DU91-1825WW	18" x 25'	Air Ducting - Supply	180°F	7"	Non-Grommeted	White/White
DU91-2025WW	20" x 25'	Air Ducting - Supply	180°F	7"	Non-Grommeted	White/White
DU91-2425WW	24" x 25'	Air Ducting - Supply	180°F	7"	Non-Grommeted	White/White



Part No.	Size & Length	Type	Max Temp.	Pitch	Grommeted/ Non-Grommeted	Body Color/ Wear Strip
DU90-1025WB	10" x 25'	Air Ducting - Return	180°F	4"	Non-Grommeted	White/Black
DU90-1225WB	12" x 25'	Air Ducting - Return	180°F	4"	Non-Grommeted	White/Black
DU90-2025WB	20" x 25'	Air Ducting - Return	180°F	4"	Non-Grommeted	White/Black
DU91-1225WB	12" x 25'	Air Ducting - Supply	180°F	7"	Non-Grommeted	White/Black
DU91-1425WB	14" x 25'	Air Ducting - Supply	180°F	7"	Non-Grommeted	White/Black
DU91-1625WB	16" x 25'	Air Ducting - Supply	180°F	7"	Non-Grommeted	White/Black
DU91-1825WB	18" x 25'	Air Ducting - Supply	180°F	7"	Non-Grommeted	White/Black
DU91-2025WB	20" x 25'	Air Ducting - Supply	180°F	7"	Non-Grommeted	White/Black
DU91-2425WB	24" x 25'	Air Ducting - Supply	180°F	7"	Non-Grommeted	White/Black



Part No.	Size & Length	Type	Max Temp.	Pitch	Grommeted/ Non-Grommeted	Body Color/ Wear Strip
DU90-1025YB	10" x 25'	Air Ducting - Return	180°F	4"	Non-Grommeted	Yellow/Black
DU90-1225YB	12" x 25'	Air Ducting - Return	180°F	4"	Non-Grommeted	Yellow/Black
DU90-2025YB	20" x 25'	Air Ducting - Return	180°F	4"	Non-Grommeted	Yellow/Black
DU91-1225YB	12" x 25'	Air Ducting - Supply	180°F	7"	Non-Grommeted	Yellow/Black
DU91-1425YB	14" x 25'	Air Ducting - Supply	180°F	7"	Non-Grommeted	Yellow/Black
DU91-1625YB	16" x 25'	Air Ducting - Supply	180°F	7"	Non-Grommeted	Yellow/Black
DU91-1825YB	18" x 25'	Air Ducting - Supply	180°F	7"	Non-Grommeted	Yellow/Black
DU91-2025YB	20" x 25'	Air Ducting - Supply	180°F	7"	Non-Grommeted	Yellow/Black
DU91-2425YB	24" x 25'	Air Ducting - Supply	180°F	7"	Non-Grommeted	Yellow/Black



WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

## DU93 UNI-DIRECTIONAL

**Application:**

HVAC conditioned air supply applications requiring ducting to be suspended by hanging grommets. Duct is phthalate free, UV, mold, and mildew resistant. Sewn construction allows Uni-Directional air flow. Hooped ends standard.

**\*Additional Colors Available Upon Request.**



Part No.	Size & Length	Hose/Pipe/Fittings	Max Temp.	Pitch	Grommets/Non-Grommets	Body Color/Wear Strip
DU93-1425WW	14" x 25'	Air Ducting - Supply	180°F	7"	Grommets	White/White
DU93-1625WW	16" x 25'	Air Ducting - Supply	180°F	7"	Grommets	White/White
DU93-1825WW	18" x 25'	Air Ducting - Supply	180°F	7"	Grommets	White/White
DU93-2025WW	20" x 25'	Air Ducting - Supply	180°F	7"	Grommets	White/White



Part No.	Size & Length	Hose/Pipe/Fittings	Max Temp.	Pitch	Grommets/Non-Grommets	Body Color/Wear Strip
DU93-1425WB	14" x 25'	Air Ducting - Supply	180°F	7"	Grommets	White/Black
DU93-1625WB	16" x 25'	Air Ducting - Supply	180°F	7"	Grommets	White/Black
DU93-1825WB	18" x 25'	Air Ducting - Supply	180°F	7"	Grommets	White/Black
DU93-2025WB	20" x 25'	Air Ducting - Supply	180°F	7"	Grommets	White/Black



Part No.	Size & Length	Hose/Pipe/Fittings	Max Temp.	Pitch	Grommets/Non-Grommets	Body Color/Wear Strip
DU93-1425YB	14" x 25'	Air Ducting - Supply	180°F	7"	Grommets	Yellow/Black
DU93-1625YB	16" x 25'	Air Ducting - Supply	180°F	7"	Grommets	Yellow/Black
DU93-1825YB	18" x 25'	Air Ducting - Supply	180°F	7"	Grommets	Yellow/Black
DU93-2025YB	20" x 25'	Air Ducting - Supply	180°F	7"	Grommets	Yellow/Black



WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>







## DUY AIR DUCT WYE

**\*\* For both Bi-Directional & Uni-Directional ducting.**



Part No.	Size	Type	Max Temp.	Body Color/ Wear Strip
DUY-12WW	12" x 12" x 12"	Ducting Wye	180°F	White/White
DUY-14WW	14" x 14" x 14"	Ducting Wye	180°F	White/White
DUY-16WW	16" x 16" x 16"	Ducting Wye	180°F	White/White
DUY-18WW	18" x 18" x 18"	Ducting Wye	180°F	White/White
DUY-20WW	20" x 20" x 20"	Ducting Wye	180°F	White/White
DUY-201212WW	20" x 12" x 12"	Ducting Wye	180°F	White/White
DUY-201414WW	20" x 14" x 14"	Ducting Wye	180°F	White/White
DUY-201616WW	20" x 16" x 16"	Ducting Wye	180°F	White/White



Part No.	Size	Type	Max Temp.	Body Color/ Wear Strip
DUY-12YY	12" x 12" x 12"	Ducting Wye	180°F	Yellow/Yellow
DUY-14YY	14" x 14" x 14"	Ducting Wye	180°F	Yellow/Yellow
DUY-16YY	16" x 16" x 16"	Ducting Wye	180°F	Yellow/Yellow
DUY-18YY	18" x 18" x 18"	Ducting Wye	180°F	Yellow/Yellow
DUY-20YY	20" x 20" x 20"	Ducting Wye	180°F	Yellow/Yellow
DUY-201212YY	20" x 12" x 12"	Ducting Wye	180°F	Yellow/Yellow
DUY-201414YY	20" x 14" x 14"	Ducting Wye	180°F	Yellow/Yellow
DUY-201616YY	20" x 16" x 16"	Ducting Wye	180°F	Yellow/Yellow

## DUY AIR DUCT HIGH TEMP. WYE



Part No.	Size	Type	Max Temp.	Body Color/Wear Strip
DUY-12BB-HT	12" x 12" x 12"	Heater Wye	375°F	Black/Black
DUY-16BB-HT	16" x 16" x 16"	Heater Wye	375°F	Black/Black
DUY-18BB-HT	18" x 18" x 18"	Heater Wye	375°F	Black/Black
DUY-20BB-HT	20" x 20" x 20"	Heater Wye	375°F	Black/Black

**\*\* For both standard & combination heater duct.**

**⚠ WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## LAYFLAT DUCTING



**Application:**

Ideally suited as an economical solution for air supply over long lengths. Optional pre-cut diffusion holes allow for even air distribution.

Part No.	Hose Size & Length	Type	Max Temp.	Pitch	Diffusion Holes	Body Color/Wear Strip
DU70-10500C	10" x 500'	4mil. Layflat Air Duct	100°F	N/A	No Holes	Clear
DU70-20500C	20" x 500'	4mil. Layflat Air Duct	100°F	N/A	No Holes	Clear
DU71-10500C	10" x 500'	4mil. Layflat Air Duct	100°F	N/A	Diffusion Holes	Clear
DU71-20500C	20" x 500'	4mil. Layflat Air Duct	100°F	N/A	Diffusion Holes	Clear
DU72-10500WW	10" x 500'	13 Oz. HD Layflat Air Ducting	180°F	N/A	No Holes	White
DU72-20500WW	20" x 500'	13 Oz. HD Layflat Air Ducting	180°F	N/A	No Holes	White
DU73-10500WW	10" x 500'	13 Oz. HD Layflat Air Ducting	180°F	N/A	Diffusion Holes	White
DU73-20500WW	20" x 500'	13 Oz. HD Layflat Air Ducting	180°F	N/A	Diffusion Holes	White

## DUC PROTECTIVE CAPS

**13oz. Protective cap with a ratchet strap**



Part No.	Size
DUC-1200W	12"
DUC-1400W	14"
DUC-1600W	16"
DUC-1800W	18"
DUC-2000W	20"
DUC-2400W	24"



Part No.	Size
DUC-1200Y	12"
DUC-1400Y	14"
DUC-1600Y	16"
DUC-1800Y	18"
DUC-2000Y	20"
DUC-2400Y	24"

## CEILING PANEL KITS



Part No.	Size
DUK-1200W	12"
DUK-1600W	16"
DUK-2000W	20"

\*More sizes available.

**!** WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## DU88 STANDARD HEATER DUCTING



**Application:**

Industrial, commercial, and residential work area heating, equipment heating, special events, drying, construction curing, and more. Soft-cuff and strap inlet with end ring outlet. Uni-Directional.

**Construction:**

**Tube** - Only fire resistant materials are used. Passes UL 94 V-0, NFPA 705 and NFPA 701 flame resistance tests

**Reinforcement** - Duct assembled using high-strength (lock-stitched) sewn construction

**Cover** - Black, polyester reinforced fabric with light urethane topcoat

**Temperature Range:**

-53°C to +190°C (-65°F to +350°F) (Intermittent +375°F)

Part No.	Size & Length	Type	Max Temp.	Pitch	Grommeted/ Non-Grommeted	Body Color/ Wear Strip
DU88-1225BB	12" x 25'	Standard High-Temp.	350°F	7"	Non-Grommeted	Black/Black
DU88-1425BB	14" x 25'	Standard High-Temp.	350°F	7"	Non-Grommeted	Black/Black
DU88-1625BB	16" x 25'	Standard High-Temp.	350°F	7"	Non-Grommeted	Black/Black
DU88-1825BB	18" x 25'	Standard High-Temp.	350°F	7"	Non-Grommeted	Black/Black
DU88-2025BB	20" x 25'	Standard High-Temp.	350°F	7"	Non-Grommeted	Black/Black
DU88-2425BB	24" x 25'	Standard High-Temp.	350°F	7"	Non-Grommeted	Black/Black

## DU98 COMBINATION HEATER DUCTING



**Application:**

Specialty fabrics are utilized to create products capable of safely delivering preheated air to occupied or unoccupied spaces, and equipment. Applications include industrial, commercial, and residential work area heating, equipment heating, special events, drying, construction curing, and more. Soft-cuff and strap inlet with end ring outlet. Uni-Directional.

**Features:**

- Black polyester reinforced fabric with urethane topcoat.
- High-temperature (500°F) silicone reinforced fiberglass liner on air inlet.
- Assembled with high-strength (lock-stitched) tube construction.
- Fire resistant material. Passes UL 94 V-0, NFPA 705 and NFPA 701 flame resistance tests.
- Continuous service temperature range of -65°F to +350°F (intermittent 375°F).
- Two 1" wide black webbing straps with clip buckle attached to the outlet end of each duct. To secure duct in the retracted state when product is not in use.

Part No.	Hose Size & Length	Type	Max Temp.	Pitch	Grommeted/ Non-Grommeted	Body Color/ Wear Strip
DU98-1225BB	12" x 25'	Comb. - High-Temp.	350-500°F	7	Non-Grommeted	Black/Gray
DU98-1625BB	16" x 25'	Comb. - High-Temp.	350-500°F	7	Non-Grommeted	Black/Gray
DU98-1825BB	18" x 25'	Comb. - High-Temp.	350-500°F	7	Non-Grommeted	Black/Gray
DU98-2025BB	20" x 25'	Comb. - High-Temp.	350-500°F	7	Non-Grommeted	Black/Gray
DU98-2425BB	24" x 25'	Comb. - High-Temp.	350-500°F	7	Non-Grommeted	Black/Gray

**\*\* 500° High Temperature Silicone Starter Section, 350°F Constant (375°F Intermittent).**

**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

## DU95 BLACK OUT DUCTING



**Application:**

Ideally suited for special events and light sensitive areas requiring protection from light permeating through the ducting walls.

Part No.	Hose Size & Length	Type	Max Temp.	Pitch	Grommets/ Non-Grommets	Body Color/ Wear Strip
DU95-1225WW	12" x 25'	Blackout Ducting	180°F	7"	Non-Grommets	White/White
DU95-1425WW	14" x 25'	Blackout Ducting	180°F	7"	Non-Grommets	White/White
DU95-1625WW	16" x 25'	Blackout Ducting	180°F	7"	Non-Grommets	White/White
DU95-1825WW	18" x 25'	Blackout Ducting	180°F	7"	Non-Grommets	White/White
DU95-2025WW	20" x 25'	Blackout Ducting	180°F	7"	Non-Grommets	White/White

## DU96 INSULATED DUCTING



**Application:**

Insulated composition improves cooling equipment efficiency, helps reduce overall heat gain, and protects conditioned air over long lengths.

Part No.	Hose Size & Length	Type	Max Temp.	Pitch	Grommets/ Non-Grommets	Body Color/ Wear Strip
DU96-1225WW	12" x 25'	Insulated	180°F	7"	Grommets	White/White
DU96-1425WW	14" x 25'	Insulated	180°F	7"	Grommets	White/White
DU96-1625WW	16" x 25'	Insulated	180°F	7"	Grommets	White/White
DU96-1825WW	18" x 25'	Insulated	180°F	7"	Grommets	White/White
DU96-2025WW	20" x 25'	Insulated	180°F	7"	Grommets	White/White
DU96-2425WW	24" x 25'	Insulated	180°F	7"	Grommets	White/White

\*Available in other colors upon request.

## DU97 BRIDGE DUCTING



**Application:**

Manufactured with high-strength PVC reinforced polyester fabric. Constructed with bi-directional air-flow, continuous heavy-duty high-tensile wire helix, and abrasion resistant wear-strip. Recommended for negative pressure (suction) dust collecting applications. Ideal for: Sand-blasting, painting, bridge restoration, shipyard ventilation, industrial tanks, vessels, and more.

**Features:**

- PVC reinforced wear-strip.
- Low profile.
- 166% stronger adhesions than comparable products.
- Best weight to strength ratio in the industry.

**Construction:**

**Tube** - Passes NFPA 701 (large scale) and California Fire Marshal Title 19 (para 1237.1). Phthalate Free

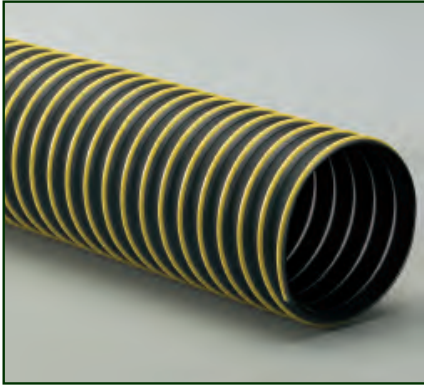
**Reinforcement** - Heavy-duty reinforced PVC extruded fabric with industry leading heat-sealing technology

Part No.	Hose Size & Length	Type	Max Temp.	Pitch	Grommets/ Non-Grommets	Body Color/ Wear Strip
DU97-1225BB	12" x 25'	Bridge Duct	180°F	2"	Non-Grommets	Black/Black
DU97-1825BB	18" x 25'	Bridge Duct	180°F	2"	Non-Grommets	Black/Black
DU97-2025BB	20" x 25'	Bridge Duct	180°F	2"	Non-Grommets	Black/Black
DU97-2425BB	24" x 25'	Bridge Duct	180°F	2"	Non-Grommets	Black/Black

 **WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## DU10 TPR-W



**Application:**

A wire reinforced, TPR elastomer with a wear strip, with good resistance to abrasion, chemicals, and weathering. Smooth interior assures minimal friction loss, and efficient air flow. Excellent low, and high-temperature properties make this a truly versatile indoor/outdoor ducting. For general dust, fume extraction, sawdust, and other mildly abrasive powders.

**Construction:**

**Tube** - Thermoplastic rubber hose

**Reinforcement** - Spring steel wire helix and external polypropylene wear-strip

**Cover** - Thermoplastic rubber hose

**Temperature Range:**

-51°C to +135°C (-60°F to +275°F; Intermittent to +300°F)

Part No.	I.D. Inches	Max W.P. PSI	Vacuum Inches Hg. @70°F	Bend Radius Inches	Weight lbs / ft	Standard Lengths
DU10-200	2	14.0	29	2.4	0.25	25'
DU10-250	2½	11.0	29	2.8	0.33	25'
DU10-300	3	9.5	29	3.0	0.40	25'
DU10-350	3½	9.0	29	4.0	0.47	25'
DU10-400	4	9.0	29	5.5	0.67	25'
DU10-500	5	8.0	17	5.5	0.85	25'
DU10-600	6	5.0	8.3	5.5	0.82	25'
DU10-700	7	4.5	5.3	7.0	1.00	25'
DU10-800	8	4.0	3.5	8.3	1.20	25'
DU10-1000	10	4.0	9.2	10.0	2.20	25'
DU10-1200	12	3.5	5.4	12.0	2.70	25'
DU10-1400	14	3.4	3	9.5	3.00	25'
DU10-1600	16	2.6	2.3	11.0	3.50	25'
DU10-1800	18	2.3	1.6	12.0	3.90	25'
DU10-2000	20	2.1	1.2	13.5	4.30	25'
DU10-2200	22	1.9	0.9	15.0	4.40	25'
DU10-2400	24	1.8	0.7	16.0	4.80	25'

\*Available without the wearstripe.

\*Call for additional fittings, lengths and assemblies.

**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>





## DU11 BLACK TPR



**Application:**

A wire reinforced, TPR elastomer, with good resistance to abrasion, chemicals, and weathering. Smooth interior assures minimal friction loss, and efficient air flow. Excellent low, and high-temperature properties make this a truly versatile indoor/ outdoor ducting. For general dust, and fume extraction, sawdust, and other mildly abrasive powders.

**Construction:**

**Tube** - Medium weight thermoplastic rubber hose

**Reinforcement** - Spring steel wire helix

**Cover** - Black thermoplastic rubber hose

**Temperature Range:**

-51°C to +135°C (-60°F to +275°F; Intermittent to +300°F)

Part No.	I.D. Inches	Max W.P. PSI	Vacuum Inches Hg. @70°F	Bend Radius Inches	Weight lbs / ft	Standard Lengths
DU11-125	1¼	28	29	1.5	0.11	25'
DU11-150	1½	24	29	1.8	0.22	25'
DU11-175	1¾	22	29	2.0	0.23	25'
DU11-200	2	17	29	3.5	0.24	25'
DU11-250	2½	13	28	4.0	0.29	25'
DU11-300	3	10	28	4.3	0.32	25'
DU11-350	3½	10	20	5.3	0.41	25'
DU11-400	4	10	25	6.5	0.50	25'
DU11-500	5	9	15	8.0	0.63	25'
DU11-600	6	8	11.5	8.8	0.85	25'
DU11-700	7	7	10	10.5	0.95	25'
DU11-1000	10	6	5.5	12.0	1.20	25'
DU11-1200	12	4	5	12.5	1.63	25'
DU11-1400	14	4	4	13.8	1.90	25'
DU11-1600	16	2	2	18.0	1.87	25'
DU11-1800	18	2	2	21.0	3.19	25'
DU11-2000	20	2	2	21.5	3.36	25'
DU11-2200	22	1	2	25.5	3.63	25'
DU11-2400	24	1	1	36.0	3.81	25'

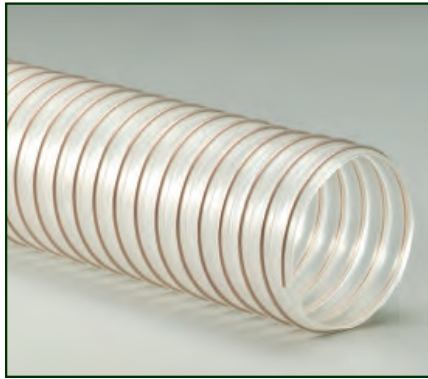
\*Available in other lengths.

\*Call for additional fittings, lengths and assemblies.

**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



**DU22 URETHANE CLEAR - MD**



**Application:**

A wire reinforced three ply polyurethane duct with excellent abrasion resistance, low-temperature, and chemical resistance. LD version available for lighter-duty applications, and HD version available for extra abrasion, and puncture resistance.

**Construction:**

**Tube** - Clear polyurethane

**Reinforcement** - Bronze coated, spring steel wire helix

**Cover** - Clear polyurethane

**Temperature Range:**

-54°C to +93°C (-65°F to +200°F)

Part No.	I.D. Inches	Max W.P. PSI	Vacuum Inches Hg. @70°F	Bend Radius Inches	Weight lbs / ft	Standard Lengths
DU22-200	2	30	29	3.0	0.25	25'
DU22-250	2½	30	29	4.0	0.32	25'
DU22-300	3	29	29	5.0	0.40	25'
DU22-400	4	25	29	6.5	0.70	25'
DU22-500	5	22	17	7.5	0.90	25'
DU22-600	6	19	15	8.5	1.00	25'
DU22-700	7	16	12	10.5	1.20	25'
DU22-800	8	14	9	12.0	1.50	25'
DU22-1000	10	11	4	14.0	1.60	25'
DU22-1200	12	10	2.2	16.0	2.00	25'
DU22-1400	14	8	3.3	18.0	2.50	25'

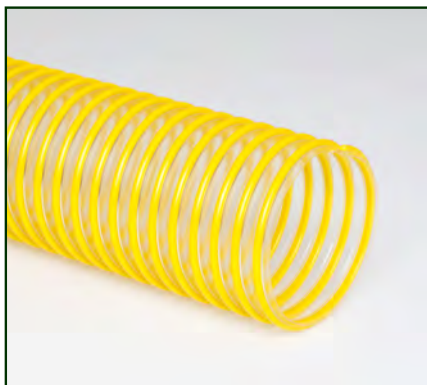
\*Available in black. Also available in Light & Heavy-Duty.

\*Call for additional fittings, lengths and assemblies.

**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## DU25 MULCH BLOWER & VACUUM



**Application:**

Leaf, grass, and mulch blower and vacuum applications.

**Construction:**

**Tube** - Medium weight coextruded thermoplastic ether based polyurethane

**Reinforcement/Cover** - Yellow rigid external ABS helix

**Temperature Range:**

-40°C to +93°C (-40°F to +200°F)

Part No.	I.D. Inches	Max W.P. PSI	Vacuum Inches Hg. @70°F	Bend Radius Inches	Weight lbs / ft	Standard Lengths
DU25-075	1/4	55	29	1.0	0.09	12'/25'
DU25-100	1	50	29	1.4	0.13	12'/25'
DU25-125	1 1/4	45	29	1.6	0.17	12'/25'
DU25-038	1 3/8	42	29	1.7	0.02	12'/25'
DU25-150	1 1/2	40	29	2.0	0.22	12'/25'
DU25-175	1 3/4	38	28	2.5	0.30	12'/25'
DU25-200	2	37	28	2.8	0.34	12'/25'
DU25-225	2 1/4	36	28	3.2	0.37	12'/25'
DU25-250	2 1/2	35	28	3.7	0.40	12'/25'
DU25-300	3	32	26	3.7	0.46	12'/25'
DU25-400	4	28	20	6.0	0.75	12'/25'
DU25-500	5	23	16	5.5	0.83	12'/25'
DU25-600	6	24	10	6.5	0.92	12'/25'
DU25-700	7	21	9	7.5	1.16	12'/25'
DU25-800	8	22	8	8.5	1.32	12'/25'
DU25-900	9	20	7	9.3	1.53	12'/25'
DU25-1000	10	16	6	9.5	1.65	12'/25'
DU25-1200	12	10	5	10.0	2.20	12'/25'

\*Call for additional fittings, lengths and assemblies.

**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## VA10 GRAY VACUUM



**Application:**

An extremely flexible and lightweight hose for vacuuming wet or dry materials in shops.

**Construction:**

**Tube** - Polyethylene copolymer hose

**Reinforcement** - Integral polyethylene helix

**Cover** - Polyethylene copolymer hose

**Temperature Range:**

-40°C to +60°C (-40°F to +140°F)



Part No.	I.D. Inches	Max W.P. PSI	Vacuum Inches Hg.	Bend Radius Inches	Weight lbs / ft	Standard Lengths
VA10-125	1 1/4	22	29	3.5	0.21	50'
VA10-150	1 1/2	20	29	4.0	0.28	50'

\*Call for additional fittings, lengths and assemblies.

## VA20 GRAY COMMERCIAL VACUUM



**Application:**

A polyethylene copolymer hose reinforced for easy movement on surfaces. Ideal for industrial and commercial vacuum applications. Smooth interior assures efficient air flow.

**Construction:**

**Tube** - Polyethylene copolymer hose

**Reinforcement** - Integral polyethylene helix

**Cover** - Polyethylene copolymer hose

**Temperature Range:**

-40°C to +60°C (-40°F to +140°F)

Part No.	I.D. Inches	Max W.P. PSI	Vacuum Inches Hg.	Bend Radius Inches	Weight lbs / ft	Standard Lengths
VA20-200	2	14	29	4.3	0.39	50'
VA20-250	2 1/2	12	29	4.6	0.54	50'
VA20-300	3	8	29	5.1	0.73	50'
VA20-400	4	8	29	6.5	1.10	50'

\*Call for additional fittings, lengths and assemblies.

**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

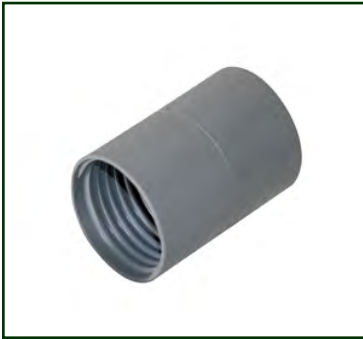


**STANDARD VACUUM CUFF**




Part No.	I.D. Inches
VA15-125	1 <sup>1</sup> / <sub>4</sub>
VA15-150	1 <sup>1</sup> / <sub>2</sub>
VA15-200	2
VA15-300	3

**DOUBLE THREADED CONNECTOR**



Part No.	I.D. Inches
VA18-125	1 <sup>1</sup> / <sub>4</sub>
VA18-150	1 <sup>1</sup> / <sub>2</sub>
VA18-200	2

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## UNIVERSAL / CHICAGO COUPLINGS



### Hose End

Part No.	Size
UH-038	3/8"
UH-050	1/2"
UH-075	3/4"
UH-100	1"
*UH-125	1 1/4"
*UH-150	1 1/2"
*UH-200	2"

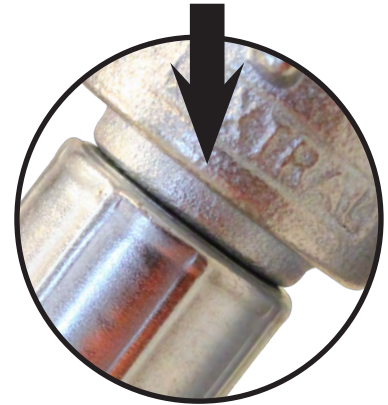
\* 4 Lug



### Hose End

Part No.	Size
UH-075X	3/4"

This coupling has an interlocking groove for a crimp ferrule and can also be used with two preform clamps.



### Male End

Part No.	Size
UM-038	3/8"
UM-050	1/2"
UM-075	3/4"
UM-100	1"



### Female End

Part No.	Size
UF-038	3/8"
UF-050	1/2"
UF-075	3/4"
UF-100	1"
*UF-125	1 1/4"
*UF-150	1 1/2"
*UF-200	2"

\* 4 Lug



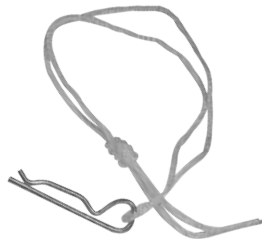
### Triple Connector

Part No.
UT



### Blank End

Part No.
UB



### Gaskets & Safety Clips/Lanyards

Part No.	Size	Description	Pkg. Qty.
UG-2-BK	2-Lug	Standard, Black	50
UG-2-BL	2-Lug	Oil Resistant, Blue	50
UG-4	4-Lug	4 Claw, Black	1
AC-1	-	Safety Clip	50
ACL-8	-	Lanyard Only	50

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## BOWES COUPLING



**Male Head with Hose Shank**

Part No.	Size
QM-2	3/8"
QM-3	1/2"
QM-4	3/4"
QM-33*	1/2"
QM-44*	3/4"

\*With locking nut.



**Male Head with Male NPT**

Part No.	Size
QM-41	3/8"
QM-42	1/2"
QM-43	3/4"
QM-66*	1/2"
QM-88*	3/4"

\*With locking nut.



**Male Head with Female NPT**

Part No.	Size
QM-81	3/8"
QM-82	1/2"
QM-83	3/4"



**Female Head with Hose Shank**

Part No.	Size
QM-21	3/8"
QM-22	1/2"
QM-23	3/4"



**Female Head with Male NPT**

Part No.	Size
QM-61	3/8"
QM-62	1/2"
QM-63	3/4"



**Female Head with Female NPT**

Part No.	Size
QM-101	3/8"
QM-102	1/2"
QM-103	3/4"



**Gaskets**

Part No.
QBM-2

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## THOR COUPLINGS



**Hose End with Locking Sleeve**

Part No.	Size
PHL-6	3/8"
PHL-8	1/2"
PHL-12	3/4"
PHL-16	1"



**Female End with Locking Sleeve**

Part No.	Size
PFL-8	1/2"
PFL-12	3/4"



**Male End with Locking Sleeve**

Part No.	Size
PML-6	3/8"
PML-8	1/2"
PML-12	3/4"



**Female End without Locking Sleeve**

Part No.	Size
PF-8	1/2"
PF-12	3/4"



**Male End without Locking Sleeve**

Part No.	Size
PM-6	3/8"
PM-8	1/2"
PM-12	3/4"



**Thor Accessories**

Part No.	
855206	Gaskets
855231	Locking Key

## AIR KING CLAMPS



Part No.	Size	Range
CD	3/8"	44/64" to 56/64"
A4	1/2"	1" to 1 12/64"
A9	3/4"	1 8/64" to 1 20/64"
A10	1"	1 20/64" to 1 32/64"
A14	1"	1 32/64" to 1 52/64"

### Safety Alert

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## MINE HOSE FITTINGS



**Mining Stem**

Part No.	Size
MHS-050-050	1/2" x 1/2"
MHS-050-100	1/2" x 1"
MHS-075-100	3/4" x 1"
MHS-100-100	1" x 1"
MHS-125-125	1 1/4" x 1 1/4"
MHS-150-150	1 1/2" x 1 1/2"
MHS-200-200	2" x 2"



**Hex Nut**

Part No.	Size
MHN-050	1/2"
MHN-100	1"
MHN-125	1 1/4"
MHN-150	1 1/2"
MHN-200	2"



**Joiner**

Part No.	Size
MHJ-050	1/2"
MHJ-075	3/4"
MHJ-100	1"
MHJ-125	1 1/4"
MHJ-150	1 1/2"
MHJ-200	2"



**Wing Nut**

Part No.	Size
MHWN-100	1"



**Female Spud**

Part No.	Female Thread	Male Thread
MHFS-038-100	3/8"	1"
MHFS-050-100	1/2"	1"
MHFS-075-100	3/4"	1"
MHFS-100-100	1"	1"



**Male Spud**

Part No.	Male Thread	Male Thread
MHMS-038-100	3/8"	1"
MHMS-075-100	1/2"	1"

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## GROUND JOINT COUPLINGS



**Female  
Hose Stem**

**Wingnut**

**Female  
Spud**

**Male  
Spud**

**Double  
Spud**

**Male  
Stem**

**Hose  
Mender**

Size	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
1/2"	GJS-050	GJWN-050	GJFS-050	GJMS-050	GJDS-050	GJM-050	GJHM-050
3/4"	GJS-075	GJWN-100	GJFS-075	GJMS-075	GJDS-100	GJM-075	GJHM-075
1"	GJS-100	GJWN-100	GJFS-100	GJMS-100	GJDS-100	GJM-100	GJHM-100
1 1/4"	GJS-125	GJWN-150	GJFS-150	GJMS-125	GJDS-150	GJM-125	GJHM-125
1 1/2"	GJS-150	GJWN-150	GJFS-150	GJMS-150	GJDS-150	GJM-150	GJHM-150
2"	GJS-200	GJWN-200	GJFS-200	GJMS-200	GJDS-200	GJM-200	GJHM-200
2 1/2"	GJS-250	GJWN-250	GJFS-250	GJMS-250	GJDS-250	GJM-250	-
3"	GJS-300	GJWN-300	GJFS-300	GJMS-300	GJDS-300	GJM-300	-
4"	GJS-400	GJWN-400	GJFS-400	-	-	GJM-400	-



**Ground Joint  
Assembly**

Part No.	Size
GJA-050	1/2"
GJA-075	3/4"
GJA-100	1"
GJA-125	1 1/4"
GJA-150	1 1/2"
GJA-200	2"
GJA-250	2 1/2"
GJA-300	3"
GJA-400	4"
GJA-600	6"

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## PREMIUM GROUND JOINT CLAMPS

### FEATURES & BENEFITS

- 360° design wraps completely around hose for superior retention
- Clamps fit hoses tightly without cracking, eliminating costly rework
- Bolts on “up side” allow easier tightening / re-tightening and improve “dragability”
- Field repairable



### Single U Bolt

Part No.	Hose I.D.	Hose O.D. Min.	Hose O.D. Max.	Torque ft / lbs
IC-2	1/2"	13/16"	1 1/32"	15
IC-3S	3/4"	1 1/16"	1 1/4"	25
IC-3	3/4"	1 3/32"	1 3/8"	25



### Double U Bolt

Part No.	Hose I.D.	Hose O.D. Min.	Hose O.D. Max.	Torque ft / lbs
IC-4	1"	1 5/16"	1 1/2"	25
IC-4L	1"	1 1/2"	1 11/16"	25
IC-5	1 1/4"	1 9/16"	2"	25
IC-6	1 1/2"	1 15/16"	2 3/16"	35
IC-6L	1 1/2"	2 3/16"	2 3/8"	35
IC-8	2"	2 11/32"	2 11/16"	55
IC-8L	2"	2 11/16"	2 15/16"	55
IC-10	2 1/2"	3"	3 3/32"	55
IC-10L	2 1/2"	3 3/32"	3 9/16"	55



### Triple U Bolt

Part No.	Hose I.D.	Hose O.D. Min.	Hose O.D. Max.	Torque ft / lbs
IC-12S	3"	3 15/16"	3 3/4"	55
IC-12	3"	3 11/16"	4 1/8"	55
IC-12L	3"	4 1/16"	4 1/2"	55
IC-16S	4"	4 5/16"	4 3/4"	100
IC-16	4"	4 11/16"	5 1/8"	100
IC-16L	4"	5 1/16"	5 1/2"	100



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## GROUND JOINT CLAMPS

### Traditional Ground Joint Clamps



Part No.	Hose I.D.	Hose O.D. Min.	Hose O.D. Max.	Torque ft / lbs
CD	3/8"	44/64"	56/64"	6
DD	1/2"	52/64"	60/64"	6
B4	1/2"	60/64"	14/64"	12
B5	1/2"	14/64"	112/64"	12
BU9	3/4"	110/64"	120/64"	21
B9	3/4"	120/64"	132/64"	21
B10	3/4"	132/64"	144/64"	21



Part No.	Hose I.D.	Hose O.D. Min.	Hose O.D. Max.	Torque ft / lbs
BU14	1"	134/64"	146/64"	21
B14	1"	144/64"	160/64"	21
B15	1"	160/64"	28/64"	21
BU18	1 1/4"	132/64"	150/64"	40
BU19	1 1/4"	150/64"	26/64"	40
B19	1 1/4"	28/64"	224/64"	40
BU22	1 1/2"	152/64"	2"	40
B22	1 1/2"	2"	214/64"	40
BU24	1 1/2"	212/64"	224/64"	40
B24	1 1/2"	224/64"	236/64"	40
B25	1 1/2"	236/64"	248/64"	40

#### Safety Alert

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## GROUND JOINT CLAMPS (Continued)



Part No.	Hose I.D.	Hose O.D. Min.	Hose O.D. Max.	Torque ft / lbs
BU28	2"	2 <sup>22</sup> / <sub>64</sub> "	2 <sup>34</sup> / <sub>64</sub> "	60
BU29	2"	2 <sup>32</sup> / <sub>64</sub> "	2 <sup>50</sup> / <sub>64</sub> "	60
B29	2"	2 <sup>48</sup> / <sub>64</sub> "	3 <sup>4</sup> / <sub>64</sub> "	60
BU34	2½"	3 <sup>6</sup> / <sub>64</sub> "	3 <sup>28</sup> / <sub>64</sub> "	60
B34	2½"	3 <sup>32</sup> / <sub>64</sub> "	3 <sup>60</sup> / <sub>64</sub> "	150
BU35	3"	3 <sup>32</sup> / <sub>64</sub> "	3 <sup>60</sup> / <sub>64</sub> "	150
B35	3"	3 <sup>52</sup> / <sub>64</sub> "	4 <sup>4</sup> / <sub>64</sub> "	150
B39	3"	4 <sup>4</sup> / <sub>64</sub> "	4 <sup>28</sup> / <sub>64</sub> "	200



Part No.	Hose I.D.	Hose O.D. Min.	Hose O.D. Max.	Torque ft / lbs
BS39	3"	4 <sup>16</sup> / <sub>64</sub> "	4 <sup>52</sup> / <sub>64</sub> "	150
B45	4"	4 <sup>40</sup> / <sub>64</sub> "	5"	150
BU49	4"	5 <sup>16</sup> / <sub>64</sub> "	5 <sup>38</sup> / <sub>64</sub> "	200

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## BRASS FITTINGS

### Hose Barb x Male NPT

Part No.	Hose I.D.	Male Thread
BHB02-02MP	1/8"	1/8"
BHB02-04MP	1/8"	1/4"
BHB03-02MP	3/16"	1/8"
BHB03-04MP	3/16"	1/4"
BHB04-02MP	1/4"	1/8"
BHB04-04MP	1/4"	1/4"
BHB04-06MP	1/4"	3/8"
BHB05-02MP	5/16"	1/8"
BHB05-04MP	5/16"	1/4"
BHB05-06MP	5/16"	3/8"
BHB06-02MP	3/8"	1/8"
BHB06-04MP	3/8"	1/4"
BHB06-06MP	3/8"	3/8"
BHB06-08MP	3/8"	1/2"
BHB08-04MP	1/2"	1/4"
BHB08-06MP	1/2"	3/8"
BHB08-08MP	1/2"	1/2"
BHB08-12MP	1/2"	3/4"
BHB10-06MP	5/8"	3/8"
BHB10-08MP	5/8"	1/2"
BHB10-12MP	5/8"	3/4"
BHB12-08MP	3/4"	1/2"
BHB12-12MP	3/4"	3/4"
BHB16-12MP	1"	3/4"
BHB16-16MP	1"	1"



### Hose Barb x Female NPSM (Ball) Swivel

Part No.	Hose I.D.	Female Thread
BHB02-02FPXBS	1/8"	1/8"
BHB03-02FPXBS	3/16"	1/8"
BHB03-04FPXBS	3/16"	1/4"
BHB04-02FPXBS	1/4"	1/8"
BHB04-04FPXBS	1/4"	1/4"
BHB04-06FPXBS	1/4"	3/8"
BHB05-04FPXBS	5/16"	1/4"
BHB06-04FPXBS	3/8"	1/4"
BHB06-06FPXBS	3/8"	3/8"
BHB06-08FPXBS	3/8"	1/2"
BHB08-06FPXBS	1/2"	3/8"
BHB08-08FPXBS	1/2"	1/2"
BHB10-08FPXBS	5/8"	1/2"
BHB12-12FPXBS	3/4"	3/4"



### Hose Mender 90°

Part No.	Hose I.D.
BHB02-02HM90	1/8"
BHB04-04HM90	1/4"
BHB06-06HM90	3/8"
BHB08-08HM90	1/2"



### Hose Mender

Part No.	Hose I.D.
BHB02-02HM	1/8"
BHB04-04HM	1/4"
BHB05-05HM	5/16"
BHB06-06HM	3/8"
BHB08-08HM	1/2"
BHB12-12HM	3/4"



### Hose Mender Tee

Part No.	Hose I.D.
BHB02-0202HMT	1/8"
BHB04-0404HMT	1/4"
BHB06-0606HMT	3/8"
BHB08-0808HMT	1/2"



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## BRASS FITTINGS

### Hose Barb x Male Swivel

Part No.	Hose I.D.	Male Thread
BHB04-04MPX	1/4"	1/4"
BHB06-04MPX	3/8"	1/4"
BHB06-06MPX	3/8"	3/8"
BHB08-08MPX	1/2"	1/2"
BHB12-12MPX	3/4"	3/4"
BHB16-16MPX	1"	1"



### Hose Barb x 45° Male NPT

Part No.	Hose I.D.	Male Thread
BHB04-02MP45	1/4"	1/8"
BHB04-04MP45	1/4"	1/4"
BHB06-02MP45	3/8"	1/8"
BHB06-04MP45	3/8"	1/4"
BHB06-06MP45	3/8"	3/8"



### Hose Barb x 90° Male NPT

Part No.	Hose I.D.	Male Thread
BHB04-02MP90	1/4"	1/8"
BHB04-04MP90	1/4"	1/4"
BHB06-02MP90	3/8"	1/8"
BHB06-04MP90	3/8"	1/4"
BHB06-06MP90	3/8"	3/8"
BHB08-08MP90	1/2"	1/2"



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## WHIP CHECKS

Hoses can whip if they become accidentally uncoupled or tear away from the fitting. Whipchecks act to control whipping in the event of a failure. Spring-loaded loops in the cable ends open easily to pass over the couplings, for a firm grip on the hose.

**To function properly, restraint cables must be installed in a fully extended position with no slack. Maximum working pressure is 200 PSI.**



Hose End

Hose End

Part No.	Hose-to-Hose
WHIP-S	1/8" cable for 1/2" to 1 1/4" hose-to-hose
WHIP-L	1/4" cable for 1 1/2" to 3" hose-to-hose

### Correct Installation



Hose End

Tool End

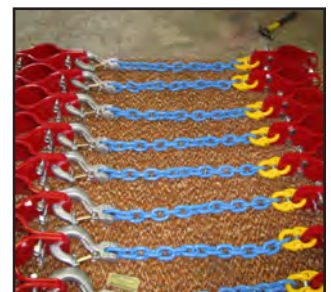
Part No.	Hose-to-Hose
WHIP-ST	1/8" cable for 1/2" to 1 1/4" hose-to-tool
WHIP-LT	1/4" cable for 1 1/2" to 3" hose-to-tool

### Incorrect Installation



## WHIP SOCKS & HOSE HOBBLER

\*Whip Socks and Hose Hobbles available upon request. Call for details and size needs.



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## SAFETY BLOW GUN



Part No.	PSI
BG100	150

Meets O.S.H.A., 1/4" female NPT inlet.

## PISTOL GRIP SAFETY BLOW GUN



Part No.	PSI
BG200	150

Meets O.S.H.A., 1/4" female NPT inlet.

## IN LINE LUBRICATORS

Air entering the inlet pressurizes both the lower and upper chamber. When the tool reciprocates, there is a sudden pressure drop in the lower chamber. When this occurs, the oil is forced through the valve into the air stream. The amount of oil injected is adjusted by opening or closing the metering valve. Pooling of oil in the line after use can be reduced by turning the unit upside down after shutdown. This allows the pressure in the two chambers to equalize thus eliminating the pressure differential causing the oil flow. Installation is recommended within 25 feet of the tool to be lubricated. Minimum flow rate is 30 SCFM.



In-line lubricator has a fill plug and sight disc.

Part No.	NPT Size	Oil Capacity	Max W.P. PSI	Air Flow @70 PSI
PL-300	1/2"	1.4 FL.OZ.	500	30 SCFM
PL-400	3/4"	3.7 FL.OZ.	200	70 SCFM
PL-400L	3/4"	11.0 FL.OZ.	300	70 SCFM
PL-500	1"	16.0 FL. OZ.	250	100 SCFM

\*Call for additional lubricating products (regulators, FRL, etc.)

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## INDUSTRIAL INTERCHANGE (D SERIES)



Plug Part No.	Coupler Part No.	Auto Coupler Part No.	Body Size	Male NPT	W.P. (PSI)	CFM @ 100 PSI
QDN42MP	--	--	1/4"	1/8"	300	36
QDN44MP	QDC44MPBR	QDC44MPAUBR	1/4"	1/4"	300	36
QDN46MP	QDC46MPBR	QDC46MPAUBR	1/4"	3/8"	300	36
QDN64MP	QDC64MPBR	QDC64MPAUBR	3/8"	1/4"	300	68
QDN66MP	QDC66MPBR	QDC66MPAUBR	3/8"	3/8"	300	68
QDN68MP	QDC68MPBR	QDC68MPAUBR	3/8"	1/2"	300	68
QDN86MP	QDC86MPBR	QDC86MPAUBR	1/2"	3/8"	300	118
QDN88MP	QDC88MPBR	QDC88MPAUBR	1/2"	1/2"	300	118
QDN812MP	QDC812MPBR	QDC812MPAUBR	1/2"	3/4"	300	118

T & D Series 1/2" body are interchangeable



Plug Part No.	Coupler Part No.	Auto Coupler Part No.	Body Size	Female NPT	W.P. (PSI)	CFM @ 100 PSI
QDN42FP	--	--	1/4"	1/8"	300	36
QDN44FP	QDC44PLBR	QDC44FPAUBR	1/4"	1/4"	300	36
QDN46FP	QDC46PLBR	QDC46FPAUBR	1/4"	3/8"	300	36
QDN64FP	QDC64PL	QDC64FPAUBR	3/8"	1/4"	300	68
QDN66FP	QDC66PL	QDC66FPAUBR	3/8"	3/8"	300	68
QDN68FP	QDC68PL	QDC68FPAUBR	3/8"	1/2"	300	68
QDN86FP	QDC86PL	QDC86FPAUBR	1/2"	3/8"	300	118
QDN88FP	QDC88PL	QDC88FPAUBR	1/2"	1/2"	300	118
QDN812FP	--	QDC812FPAUBR	1/2"	3/4"	300	118

T & D Series 1/2" body are interchangeable



Plug Part No.	Coupler Part No.	Auto Coupler Part No.	Body Size	Hose Barb	W.P. (PSI)	CFM @ 100 PSI
QDN44HB	QDC44HBRR	QDC44HBAUBR	1/4"	1/4"	300	36
QDN45HB	QDC45HBRR	--	1/4"	5/16"	300	36
QDN46HB	QDC046HBRR	QDC46HBAUBR	1/4"	3/8"	300	36
QDN64HB	QDC64HBRR	QDC64HBAUBR	3/8"	1/4"	300	68
QDN66HB	QDC66HBRR	QDC66HBAUBR	3/8"	3/8"	300	68
QDN68HB	QDC68HBRR	QDC68HBAUBR	3/8"	1/2"	300	68
QDN86HB	QDC86HBRR	QDC86HBAUBR	1/2"	3/8"	300	118
QDN88HB	QDC88HBRR	QDC88HBAUBR	1/2"	1/2"	300	118
QDN812HB	QDC812HBRR	QDC812HBAUBR	1/2"	3/4"	300	118

T & D Series 1/2" body are interchangeable

**!** WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## AUTOMOTIVE INTERCHANGE (T SERIES)

These couplers are fully interchangeable with Parker Truflate series 10.



Plug Part No.	Coupler Part No.	Auto Coupler Part No.	Body Size	Male NPT	W.P. (PSI)	CFM @ 100 PSI
QTN42MP	QTC42MPBPR	--	1/4"	1/8"	300	36
QTN44MP	QTC44MPBPR	--	1/4"	1/4"	300	36
QTN46MP	QTC46MPBPR	--	1/4"	3/8"	300	36
QTN64MP	QTC64MP	--	3/8"	1/4"	300	68
QTN66MP	QTC66MP	--	3/8"	3/8"	300	68
QTN68MP	QTC68MP	--	3/8"	1/2"	300	68
QDN86MP	QDC86MP	--	1/2"	3/8"	300	118
QDN88MP	QDC88MP	--	1/2"	1/2"	300	118
QDN812MP	QDC812MP	--	1/2"	3/4"	300	118

T & D Series 1/2" body are interchangeable



Plug Part No.	Coupler Part No.	Auto Coupler Part No.	Body Size	Female NPT	W.P. (PSI)	CFM @ 100 PSI
QTN42FP	QTC42FPBPR	--	1/4"	1/8"	300	36
QTN44FP	QTC44FPBPR	--	1/4"	1/4"	300	36
QTN46FP	QTC46FPBPR	--	1/4"	3/8"	300	36
QTN64FP	QTC64FP	--	3/8"	1/4"	300	68
QTN66FP	QTC66FP	--	3/8"	3/8"	300	68
QTN68FP	QTC68FP	--	3/8"	1/2"	300	68
QDN86FP	QDC86FP	--	1/2"	3/8"	300	118
QDN88FP	QDC88FP	--	1/2"	1/2"	300	118
QDN812FP	QDC812FP	--	1/2"	3/4"	300	118

T & D Series 1/2" body are interchangeable



Plug Part No.	Coupler Part No.	Auto Coupler Part No.	Body Size	Hose Barb	W.P. (PSI)	CFM @ 100 PSI
--	QTC42HBPR	--	1/4"	1/8"	300	36
QTN44HB	QTC44HBPR	--	1/4"	1/4"	300	36
QTN46HB	QTC46HBPR	--	1/4"	3/8"	300	36
QTN64HB	QTC64HB	--	3/8"	1/4"	300	68
QTN66HB	QTC66HB	--	3/8"	3/8"	300	68
QTN68HB	QTC68HB	--	3/8"	1/2"	300	68
QDN86HB	QDC86HB	--	1/2"	3/8"	300	118
QDN88HB	QDC88HB	--	1/2"	1/2"	300	118
QDN812HB	QDC812HB	--	1/2"	3/4"	300	118

T & D Series 1/2" body are interchangeable



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## ARO INTERCHANGE (AR SERIES)

These couplers interchange with ARO 210 / 310 couplings.



Plug Part No.	Coupler Part No.	Auto Coupler Part No.	Body Size	Male NPT	W.P. (PSI)	CFM @ 100 PSI
QARN42MP	--	--	1/4"	1/8"	300	36
QARN44MP	QARC44MPBR	QARC44MPAU	1/4"	1/4"	300	36
QARN46MP	QARC46MPBR	QARC46MPAU	1/4"	3/8"	300	36
QARN66MP	QARC66MPBR	QARC66MPAU	3/8"	3/8"	300	68



Plug Part No.	Coupler Part No.	Auto Coupler Part No.	Body Size	Female NPT	W.P. (PSI)	CFM @ 100 PSI
QARN44FP	QARN44FPBR	QARC44FPAU	1/4"	1/4"	300	36
QARN46FP	--	QARC46FPAU	1/4"	3/8"	300	36
QARN66FP	--	QARC66FPAU	3/8"	3/8"	300	68



Plug Part No.	Coupler Part No.	Auto Coupler Part No.	Body Size	Hose Barb	W.P. (PSI)	CFM @ 100 PSI
QARN44HB	QARC44HBR	QARC44HBAU	1/4"	1/4"	300	36
QARN46HB	QARC46HBBR	QARC46HBAU	1/4"	3/8"	300	36
QARN66HB	--	--	3/8"	3/8"	300	68

**!** WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>





## LONG LINCOLN INTERCHANGE (L SERIES)



Plug Part No.	Coupler Part No.	Body Size	Male NPT	W.P. (PSI)	CFM @ 100 PSI
QLN44MP	QLC44MPBR	1/4"	1/4"	300	36



Plug Part No.	Coupler Part No.	Body Size	Female NPT	W.P. (PSI)	CFM @ 100 PSI
QLN44FP	QLC44FPBR	1/4"	1/4"	300	36

## UNIVERSAL AIR COUPLERS (UA SERIES)



Plug Part No.	Body Size	Thread Size	W.P. (PSI)	CFM @ 100 PSI
QUAC44MP	1/4"	1/4" M-NPT	150	40-45
QUAC44FP	1/4"	1/4" F-NPT	150	40-45

### Universal Air Couplers Accept:

- Industrial Interchange
- ARO Interchange
- Automotive (Tru-Flate) Interchange
- Euro (Megaflo™) Interchange
- Lincoln Interchange

**!** WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## SWING - INDUSTRIAL INTERCHANGE (SD SERIES)

### CONNECTION

Push suitable plug into coupler and swing approximately 90° until the orange ring engages in the groove.

### DISCONNECTION

Pull back orange ring and swing plug to stop. Remove plug from coupling.

### FEATURES

- Conforms to safety standard ISO 4414, EN 983
- Pressure always automatically off during the coupling process
- Full flow, negligible loss of pressure
- Simple operation, no force required



Plug Part No.	Coupler Part No.	Body Size	Male NPT	WP (PSI)	Flow ΔP=10 PSI
QDN44MP	QSDC44MP	1/4"	1/4"	360	37 CFM
QDN46MP	QSDC46MP	1/4"	3/8"	360	37 CFM
QDN66MP	QSDC66MP	3/8"	3/8"	360	71 CFM
QDN68MP	QSDC68MP	3/8"	1/2"	360	71 CFM
QDN86MP	QSDC86MP	1/2"	3/8"	360	190 CFM
QDN88MP	QSDC88MP	1/2"	1/2"	360	190 CFM
QDN812MP	QSDC812MP	1/2"	3/4"	360	190 CFM



Plug Part No.	Coupler Part No.	Body Size	Female NPT	WP (PSI)	Flow ΔP=10 PSI
QDN44FP	QSDC44FP	1/4"	1/4"	360	37 CFM
QDN46FP	QSDC46FP	1/4"	3/8"	360	37 CFM
QDN66FP	QSDC66FP	3/8"	3/8"	360	71 CFM
QDN68FP	QSDC68FP	3/8"	1/2"	360	71 CFM
QDN86FP	QSDC86FP	1/2"	3/8"	360	190 CFM
QDN88FP	QSDC88FP	1/2"	1/2"	360	190 CFM
QDN812FP	QSDC812FP	1/2"	3/4"	360	190 CFM



Plug Part No.	Coupler Part No.	Body Size	Hose Barb	WP (PSI)	Flow ΔP=10 PSI
QDN44HB	QSDC44HB	1/4"	1/4"	360	37 CFM
QDN46HB	QSDC46HB	1/4"	3/8"	360	37 CFM
QDN66HB	QSDC66HB	3/8"	3/8"	360	71 CFM
QDN88HB	QSDC88HB	1/2"	1/2"	360	190 CFM

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## FLEXTRAL ONE CAM CAMLOCKS

### Features & Benefits

- 360° interlock groove on fitting locks ferrule into place for the ultimate in holding power.
- Serrations designed to grip, seal, and protect hose when crimped or banded.
- Crimped assemblies are low profile and can achieve higher pressure than traditional style band clamps and eliminate sharp edges from clamp buckles.
- Works on all hoses, lay flat to hard suction.

EXTENDED SERVICE

### ONE CAM Part C & Part E Pressure Ratings

Size	Aluminum/Brass/Stainless Max W.P. PSI
1½"	250
2"	250
3"	150
4"	150
6"	120



#### Aluminum Part C

Part No.	Size
AL-C150	1½"
AL-C200	2"
AL-C300	3"
AL-C400	4"
AL-C600	6"

#### Brass Part C

Part No.	Size
BR-C200	2"
BR-C300	3"
BR-C400	4"

#### Stainless Part C

Part No.	Size
SS-C200	2"
SS-C300	3"
SS-C400	4"
SS-C600	6"



#### Aluminum Part E

Part No.	Size
AL-E150	1½"
AL-E200	2"
AL-E300	3"
AL-E400	4"
AL-E600	6"

#### Brass Part E

Part No.	Size
BR-E200	2"
BR-E300	3"
BR-E400	4"

#### Stainless Part E

Part No.	Size
SS-E200	2"
SS-E300	3"
SS-E400	4"
SS-E600	6"

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CRIMP-X THREADED NIPPLES



Unplated Steel

Part No.	Hose Size
CNT-200X	2"
CNT-300X	3"
CNT-400X	4"
CNT-600X	6"

316 Stainless Steel

Part No.	Hose Size
CNT-200X-S6	2"
CNT-300X-S6	3"
CNT-400X-S6	4"
CNT-600X-S6	6"

CRIMP-X GROOVED/VICTAULIC STYLE



Plated Steel

Part No.	Hose Size
CNG-200X	2"
CNG-300X	3"
CNG-400X	4"
CNG-600X	6"
CNG-800X	8"

316 Stainless Steel

Part No.	Hose Size
CNG-200X-S6	2"
CNG-300X-S6	3"
CNG-400X-S6	4"
CNG-600X-S6	6"

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**CRIMP-X FIXED FLANGE**



**Steel 150#  
Fixed Flange**

Part No.	Hose Size
CNF-200X	2"
CNF-300X	3"
CNF-400X	4"
CNF-600X	6"
CNF-800X	8"

**316 Stainless Steel  
150# Fixed Flange**

Part No.	Hose Size
CNF-200X-S6	2"
CNF-300X-S6	3"
CNF-400X-S6	4"
CNF-600X-S6	6"
CNF-800X-S6	8"

**CRIMP-X TURN BACK FLOATING FLANGE**



**Steel 150#  
Turn Back**

Part No.	Hose Size
CNTB-200X	2"
CNTB-300X	3"
CNTB-400X	4"
CNTB-600X	6"
CNTB-800X	8"

**316 Stainless Steel  
150# Turn Back**

Part No.	Hose Size
CNTB-200X-S6	2"
CNTB-300X-S6	3"
CNTB-400X-S6	4"
CNTB-600X-S6	6"
CNTB-800X-S6	8"

\*Turn backs include 150# lap joint flange.

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## CRIMP-X SLEEVES



Part No.	Hose Size	Sleeve I.D. Inches	Decimal
CSX-075108	3/4"	1 <sup>8</sup> / <sub>64</sub>	1.12
CSX-075120	3/4"	1 <sup>20</sup> / <sub>64</sub>	1.31
CSX-100124	1"	1 <sup>24</sup> / <sub>64</sub>	1.38
CSX-100128	1"	1 <sup>28</sup> / <sub>64</sub>	1.44
CSX-100132	1"	1 <sup>32</sup> / <sub>64</sub>	1.50
CSX-100136	1"	1 <sup>36</sup> / <sub>64</sub>	1.56
CSX-100140	1"	1 <sup>40</sup> / <sub>64</sub>	1.63
CSX-100144	1"	1 <sup>44</sup> / <sub>64</sub>	1.69
CSX-125148	1 1/4"	1 <sup>48</sup> / <sub>64</sub>	1.75
CSX-125152	1 1/4"	1 <sup>52</sup> / <sub>64</sub>	1.81
CSX-125156	1 1/4"	1 <sup>56</sup> / <sub>64</sub>	1.88
CSX-150200	1 1/2"	2	2.00
CSX-150204	1 1/2"	2 <sup>4</sup> / <sub>64</sub>	2.06
CSX-150208	1 1/2"	2 <sup>8</sup> / <sub>64</sub>	2.13
CSX-150212	1 1/2"	2 <sup>12</sup> / <sub>64</sub>	2.19
CSX-150216	1 1/2"	2 <sup>16</sup> / <sub>64</sub>	2.25
CSX-150220	1 1/2"	2 <sup>20</sup> / <sub>64</sub>	2.31
CSX-200224	2"	2 <sup>24</sup> / <sub>64</sub>	2.38
CSX-200228	2"	2 <sup>28</sup> / <sub>64</sub>	2.44
CSX-200232	2"	2 <sup>32</sup> / <sub>64</sub>	2.50
CSX-200236	2"	2 <sup>36</sup> / <sub>64</sub>	2.56
CSX-200240	2"	2 <sup>40</sup> / <sub>64</sub>	2.63
CSX-200244	2"	2 <sup>44</sup> / <sub>64</sub>	2.69
CSX-200248	2"	2 <sup>48</sup> / <sub>64</sub>	2.75
CSX-200252	2"	2 <sup>52</sup> / <sub>64</sub>	2.81
CSX-200256	2"	2 <sup>56</sup> / <sub>64</sub>	2.88
CSX-200260	2"	2 <sup>60</sup> / <sub>64</sub>	2.94
CSX-200300	2"	3	3.00
CSX-250316	2 1/2"	3 <sup>16</sup> / <sub>64</sub>	3.25

\*Measuring each hose end O.D. dimension is critical to proper sleeve selection. Each end must be measured and verified.

Part No.	Hose Size	Sleeve I.D. Inches	Decimal
CSX-300320	3"	3 <sup>20</sup> / <sub>64</sub>	3.31
CSX-300324	3"	3 <sup>24</sup> / <sub>64</sub>	3.38
CSX-300332	3"	3 <sup>32</sup> / <sub>64</sub>	3.50
CSX-300336	3"	3 <sup>36</sup> / <sub>64</sub>	3.56
CSX-300340	3"	3 <sup>40</sup> / <sub>64</sub>	3.63
CSX-300344	3"	3 <sup>44</sup> / <sub>64</sub>	3.69
CSX-300348	3"	3 <sup>48</sup> / <sub>64</sub>	3.75
CSX-300352	3"	3 <sup>52</sup> / <sub>64</sub>	3.81
CSX-300356	3"	3 <sup>56</sup> / <sub>64</sub>	3.88
CSX-300360	3"	3 <sup>60</sup> / <sub>64</sub>	3.94
CSX-300400	3"	4	4.00
CSX-400428	4"	4 <sup>28</sup> / <sub>64</sub>	4.44
CSX-400432	4"	4 <sup>32</sup> / <sub>64</sub>	4.50
CSX-400436	4"	4 <sup>36</sup> / <sub>64</sub>	4.56
CSX-400440	4"	4 <sup>40</sup> / <sub>64</sub>	4.63
CSX-400444	4"	4 <sup>44</sup> / <sub>64</sub>	4.69
CSX-400448	4"	4 <sup>48</sup> / <sub>64</sub>	4.75
CSX-400452	4"	4 <sup>52</sup> / <sub>64</sub>	4.81
CSX-400456	4"	4 <sup>56</sup> / <sub>64</sub>	4.88
CSX-400460	4"	4 <sup>60</sup> / <sub>64</sub>	4.94
CSX-400500	4"	5	5.00
CSX-400504	4"	5 <sup>4</sup> / <sub>64</sub>	5.06
CSX-600628	6"	6 <sup>28</sup> / <sub>64</sub>	6.43
CSX-600632	6"	6 <sup>32</sup> / <sub>64</sub>	6.50
CSX-600640	6"	6 <sup>40</sup> / <sub>64</sub>	6.63
CSX-600648	6"	6 <sup>48</sup> / <sub>64</sub>	6.75
CSX-600656	6"	6 <sup>56</sup> / <sub>64</sub>	6.88
CSX-600700	6"	7	7.00
CSX-600708	6"	7 <sup>8</sup> / <sub>64</sub>	7.13
CSX-600716	6"	7 <sup>16</sup> / <sub>64</sub>	7.25
CSX-600724	6"	7 <sup>24</sup> / <sub>64</sub>	7.38
CSX-800832	8"	8 <sup>32</sup> / <sub>64</sub>	8.50
CSX-800900	8"	9	9.00
CSX-800916	8"	9 <sup>16</sup> / <sub>64</sub>	9.25
CSX-800948	8"	9 <sup>48</sup> / <sub>64</sub>	9.75
CSX-10001032	10"	10 <sup>32</sup> / <sub>64</sub>	10.50
CSX-10001116	10"	11 <sup>16</sup> / <sub>64</sub>	11.25
CSX-10001148	10"	11 <sup>48</sup> / <sub>64</sub>	11.75
CSX-12001228	12"	12 <sup>28</sup> / <sub>64</sub>	12.44
CSX-12001316	12"	13 <sup>16</sup> / <sub>64</sub>	13.25
CSX-12001400	12"	14	14.00

**For material, add suffix as follows:**

- PS: Plated Steel
- SS: Stainless Steel
- AL: Aluminum

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## CRIMP-X FERRULES



Part No.	Hose Size	Sleeve I.D. Inches	Decimal
CFX-100136	1"	1 <sup>36</sup> / <sub>64</sub>	1.56
CFX-100140	1"	1 <sup>40</sup> / <sub>64</sub>	1.63
CFX-125148	1 <sup>1</sup> / <sub>4</sub> "	1 <sup>48</sup> / <sub>64</sub>	1.75
CFX-125152	1 <sup>1</sup> / <sub>4</sub> "	1 <sup>52</sup> / <sub>64</sub>	1.81
CFX-125156	1 <sup>1</sup> / <sub>4</sub> "	1 <sup>56</sup> / <sub>64</sub>	1.88
CFX-150200	1 <sup>1</sup> / <sub>2</sub> "	2	2.00
CFX-150204	1 <sup>1</sup> / <sub>2</sub> "	2 <sup>4</sup> / <sub>64</sub>	2.06
CFX-150208	1 <sup>1</sup> / <sub>2</sub> "	2 <sup>8</sup> / <sub>64</sub>	2.13
CFX-150212	1 <sup>1</sup> / <sub>2</sub> "	2 <sup>12</sup> / <sub>64</sub>	2.19
CFX-200224	2"	2 <sup>24</sup> / <sub>64</sub>	2.38
CFX-200236	2"	2 <sup>36</sup> / <sub>64</sub>	2.56
CFX-200240	2"	2 <sup>40</sup> / <sub>64</sub>	2.63
CFX-200244	2"	2 <sup>44</sup> / <sub>64</sub>	2.69
CFX-200248	2"	2 <sup>48</sup> / <sub>64</sub>	2.75
CFX-200252	2"	2 <sup>52</sup> / <sub>64</sub>	2.81
CFX-200256	2"	2 <sup>56</sup> / <sub>64</sub>	2.88
CFX-200300	2"	3	3.00

\*Measuring each hose end O.D. dimension is critical to proper ferrule selection. Each end must be measured and verified.

Part No.	Hose Size	Sleeve I.D. Inches	Decimal
CFX-300320	3"	3 <sup>20</sup> / <sub>64</sub>	3.31
CFX-300324	3"	3 <sup>24</sup> / <sub>64</sub>	3.38
CFX-300340	3"	3 <sup>40</sup> / <sub>64</sub>	3.63
CFX-300344	3"	3 <sup>44</sup> / <sub>64</sub>	3.69
CFX-300348	3"	3 <sup>48</sup> / <sub>64</sub>	3.75
CFX-300352	3"	3 <sup>52</sup> / <sub>64</sub>	3.81
CFX-300356	3"	3 <sup>56</sup> / <sub>64</sub>	3.88
CFX-300400	3"	4	4.00
CFX-400428	4"	4 <sup>28</sup> / <sub>64</sub>	4.44
CFX-400436	4"	4 <sup>36</sup> / <sub>64</sub>	4.56
CFX-400444	4"	4 <sup>44</sup> / <sub>64</sub>	4.69
CFX-400448	4"	4 <sup>48</sup> / <sub>64</sub>	4.75
CFX-400452	4"	4 <sup>52</sup> / <sub>64</sub>	4.81
CFX-400456	4"	4 <sup>56</sup> / <sub>64</sub>	4.88
CFX-400460	4"	4 <sup>60</sup> / <sub>64</sub>	4.94
CFX-400500	4"	5	5.00
CFX-400508	4"	5 <sup>8</sup> / <sub>64</sub>	5.13
CFX-600632	6"	6 <sup>32</sup> / <sub>64</sub>	6.50
CFX-600640	6"	6 <sup>40</sup> / <sub>64</sub>	6.63
CFX-600648	6"	6 <sup>48</sup> / <sub>64</sub>	6.75
CFX-600656	6"	6 <sup>56</sup> / <sub>64</sub>	6.88
CFX-600700	6"	7	7.00
CFX-600708	6"	7 <sup>8</sup> / <sub>64</sub>	7.13
CFX-600724	6"	7 <sup>24</sup> / <sub>64</sub>	7.38

For material, add suffix as follows:

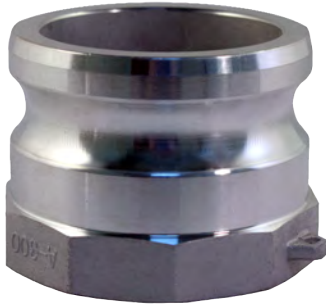
- PS: Plated Steel
- SS: Stainless Steel



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## PART A



### Aluminum Part A

Part No.	Size
AL-A050	1/2"
AL-A075	3/4"
AL-A100	1"
AL-A125	1 1/4"
AL-A150	1 1/2"
AL-A200	2"
AL-A250	2 1/2"
AL-A300	3"
AL-A400	4"
AL-A500	5"
AL-A600	6"
AL-A800*	8"

### Brass Part A

Part No.	Size
BR-A050	1/2"
BR-A075	3/4"
BR-A100	1"
BR-A125	1 1/4"
BR-A150	1 1/2"
BR-A200	2"
BR-A250	2 1/2"
BR-A300	3"
BR-A400	4"

### Stainless Part A

Part No.	Size
SS-A050	1/2"
SS-A075	3/4"
SS-A100	1"
SS-A125	1 1/4"
SS-A150	1 1/2"
SS-A200	2"
SS-A250	2 1/2"
SS-A300	3"
SS-A400	4"
SS-A500	5"
SS-A600	6"

### Malleable Part A

Part No.	Size
MI-A100	1/2"
MI-A200	2"
MI-A300	3"
MI-A400	4"

\*Specify (N)=Type 1 for NECO Style or (P)=Type 2 for PT Style.

See Page 174 for Detailed Type Explanation.

## PART B



### Aluminum Part B

Part No.	Size
AL-B050	1/2"
AL-B075	3/4"
AL-B100	1"
AL-B125	1 1/4"
AL-B150	1 1/2"
AL-B200	2"
AL-B250	2 1/2"
AL-B300	3"
AL-B400	4"
AL-B500	5"
AL-B600	6"
AL-B800*	8"

### Brass Part B

Part No.	Size
BR-B050	1/2"
BR-B075	3/4"
BR-B100	1"
BR-B125	1 1/4"
BR-B150	1 1/2"
BR-B200	2"
BR-B250	2 1/2"
BR-B300	3"
BR-B400	4"

### Stainless Part B


Part No.	Size
SS-B050	1/2"
SS-B075	3/4"
SS-B100	1"
SS-B125	1 1/4"
SS-B150	1 1/2"
SS-B200	2"
SS-B250	2 1/2"
SS-B300	3"
SS-B400	4"
SS-B500	5"
SS-B600	6"

### Malleable Part B

Part No.	Size
MI-B100	1/2"
MI-B200	2"
MI-B300	3"
MI-B400	4"

\*Specify (N)=Type 1 for NECO Style or (P)=Type 2 for PT Style.

See Page 174 for Detailed Type Explanation.

 WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

## PART D



### Aluminum Part D

Part No.	Size
AL-D050	1/2"
AL-D075	3/4"
AL-D100	1"
AL-D125	1 1/4"
AL-D150	1 1/2"
AL-D200	2"
AL-D250	2 1/2"
AL-D300	3"
AL-D400	4"
AL-D500	5"
AL-D600	6"
AL-D800*	8"

### Brass Part D

Part No.	Size
BR-D050	1/2"
BR-D075	3/4"
BR-D100	1"
BR-D125	1 1/4"
BR-D150	1 1/2"
BR-D200	2"
BR-D250	2 1/2"
BR-D300	3"
BR-D400	4"

### Stainless Part D

Part No.	Size
SS-D050	1/2"
SS-D075	3/4"
SS-D100	1"
SS-D125	1 1/4"
SS-D150	1 1/2"
SS-D200	2"
SS-D250	2 1/2"
SS-D300	3"
SS-D400	4"
SS-D500	5"
SS-D600	6"

### Malleable Part D

Part No.	Size
MI-D100	1/2"
MI-D200	2"
MI-D300	3"
MI-D400	4"

\*Specify (N)=Type 1 for NECO Style or (P)=Type 2 for PT Style.

See Page 174 for Detailed Type Explanation.

## PART F



### Aluminum Part F

Part No.	Size
AL-F050	1/2"
AL-F075	3/4"
AL-F100	1"
AL-F125	1 1/4"
AL-F150	1 1/2"
AL-F200	2"
AL-F250	2 1/2"
AL-F300	3"
AL-F400	4"
AL-F500	5"
AL-F600	6"
AL-F800*	8"

### Brass Part F

Part No.	Size
BR-F050	1/2"
BR-F075	3/4"
BR-F100	1"
BR-F125	1 1/4"
BR-F150	1 1/2"
BR-F200	2"
BR-F250	2 1/2"
BR-F300	3"
BR-F400	4"

### Stainless Part F

Part No.	Size
SS-F050	1/2"
SS-F075	3/4"
SS-F100	1"
SS-F125	1 1/4"
SS-F150	1 1/2"
SS-F200	2"
SS-F250	2 1/2"
SS-F300	3"
SS-F400	4"
SS-F500	5"
SS-F600	6"

### Malleable Part F

Part No.	Size
MI-F100	1/2"
MI-F200	2"
MI-F300	3"
MI-F400	4"

\*Specify (N)=Type 1 for NECO Style or (P)=Type 2 for PT Style.

See Page 174 for Detailed Type Explanation.

**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

## PART C



### Aluminum Part C

Part No.	Size
AL-C050	1/2"
AL-C075	3/4"
AL-C100	1"
AL-C125	1 1/4"
AL-C150	1 1/2"
AL-C200	2"
AL-C250	2 1/2"
AL-C300	3"
AL-C400	4"
AL-C500	5"
AL-C600	6"
AL-C800*	8"

### Brass Part C

Part No.	Size
BR-C050	1/2"
BR-C075	3/4"
BR-C100	1"
BR-C125	1 1/4"
BR-C150	1 1/2"
BR-C200	2"
BR-C250	2 1/2"
BR-C300	3"
BR-C400	4"

### Stainless Part C

Part No.	Size
SS-C050	1/2"
SS-C075	3/4"
SS-C100	1"
SS-C125	1 1/4"
SS-C150	1 1/2"
SS-C200	2"
SS-C250	2 1/2"
SS-C300	3"
SS-C400	4"
SS-C500	5"
SS-C600	6"

### Malleable Part C

Part No.	Size
MI-C100	1/2"
MI-C200	2"
MI-C300	3"
MI-C400	4"

\*Specify (N)=Type 1 for NECO Style or (P)=Type 2 for PT Style.

See Page 174 for Detailed Type Explanation.

## PART C - FLEXTRAL ONE CAM



### Aluminum Part C

Part No.	Size
AL-C150	1 1/2"
AL-C200	2"
AL-C300	3"
AL-C400	4"
AL-C600	6"

### Brass Part C

Part No.	Size
BR-C200	2"
BR-C300	3"
BR-C400	4"

### Stainless Part C

Part No.	Size
SS-C200	2"
SS-C300	3"
SS-C3025	2.5"x3"
SS-C400	4"
SS-C600	6"



**\*See Page 174 for Advantages of the Flextral ONE CAM Camlocks**

**!** WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



**PART E**



**Aluminum Part E**

Part No.	Size
AL-E050	1/2"
AL-E075	3/4"
AL-E100	1"
AL-E125	1 1/4"
AL-E150	1 1/2"
AL-E200	2"
AL-E250	2 1/2"
AL-E300	3"
AL-E400	4"
AL-E500	5"
AL-E600	6"
AL-E800*	8"

**Brass Part E**

Part No.	Size
BR-E050	1/2"
BR-E075	3/4"
BR-E100	1"
BR-E125	1 1/4"
BR-E150	1 1/2"
BR-E200	2"
BR-E250	2 1/2"
BR-E300	3"
BR-E400	4"

**Stainless Part E**

Part No.	Size
SS-E050	1/2"
SS-E075	3/4"
SS-E100	1"
SS-E125	1 1/4"
SS-E150	1 1/2"
SS-E200	2"
SS-E250	2 1/2"
SS-E300	3"
SS-E400	4"
SS-E500	5"
SS-E600	6"

**Malleable Part E**

Part No.	Size
MI-E100	1/2"
MI-E200	2"
MI-E300	3"
MI-E400	4"

\*Specify (N)=Type 1 for NECO Style or (P)=Type 2 for PT Style.  
See Page 174 for Detailed Type Explanation.

**PART E - FLEXTRAL ONE CAM**



**Aluminum Part E**

Part No.	Size
AL-E150	1 1/2"
AL-E200	2"
AL-E300	3"
AL-E400	4"
AL-E600	6"

**Brass Part E**

Part No.	Size
BR-E200	2"
BR-E300	3"
BR-E400	4"

**Stainless Part E**

Part No.	Size
SS-E200	2"
SS-E300	3"
SS-E3025	2.5"x3"
SS-E400	4"
SS-E600	6"



**\*See Page 174 for Advantages of the Flextral ONE CAM Camlocks**

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## PART DP (DUST PLUG)



### Aluminum Part DP

Part No.	Size
AL-DP050	1/2"
AL-DP075	3/4"
AL-DP100	1"
AL-DP125	1 1/4"
AL-DP150	1 1/2"
AL-DP200	2"
AL-DP250	2 1/2"
AL-DP300	3"
AL-DP400	4"
AL-DP500	5"
AL-DP600	6"
AL-DP800*	8"

### Brass Part DP

Part No.	Size
BR-DP050	1/2"
BR-DP075	3/4"
BR-DP100	1"
BR-DP125	1 1/4"
BR-DP150	1 1/2"
BR-DP200	2"
BR-DP250	2 1/2"
BR-DP300	3"
BR-DP400	4"

### Stainless Part DP

Part No.	Size
SS-DP050	1/2"
SS-DP075	3/4"
SS-DP100	1"
SS-DP125	1 1/4"
SS-DP150	1 1/2"
SS-DP200	2"
SS-DP250	2 1/2"
SS-DP300	3"
SS-DP400	4"
SS-DP500	5"
SS-DP600	6"

### Malleable Part DP

Part No.	Size
MI-DP100	1/2"
MI-DP200	2"
MI-DP300	3"
MI-DP400	4"

\*Specify (N)=Type 1 for NECO Style or (P)=Type 2 for PT Style.

See Page 174 for Detailed Type Explanation.

## PART DC (DUST CAP)



### Aluminum Part DC

Part No.	Size
AL-DC050	1/2"
AL-DC075	3/4"
AL-DC100	1"
AL-DC125	1 1/4"
AL-DC150	1 1/2"
AL-DC200	2"
AL-DC250	2 1/2"
AL-DC300	3"
AL-DC400	4"
AL-DC500	5"
AL-DC600	6"
AL-DC800*	8"

### Brass Part DC

Part No.	Size
BR-DC050	1/2"
BR-DC075	3/4"
BR-DC100	1"
BR-DC125	1 1/4"
BR-DC150	1 1/2"
BR-DC200	2"
BR-DC250	2 1/2"
BR-DC300	3"
BR-DC400	4"

### Stainless Part DC

Part No.	Size
SS-DC050	1/2"
SS-DC075	3/4"
SS-DC100	1"
SS-DC125	1 1/4"
SS-DC150	1 1/2"
SS-DC200	2"
SS-DC250	2 1/2"
SS-DC300	3"
SS-DC400	4"
SS-DC500	5"
SS-DC600	6"

### Malleable Part DP

Part No.	Size
MI-DP100	1/2"
MI-DP200	2"
MI-DP300	3"
MI-DP400	4"

\*Specify (N)=Type 1 for NECO Style or (P)=Type 2 for PT Style.

See Page 174 for Detailed Type Explanation.

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## POLYPROPYLENE

### Polypropylene Part A



Part No.	Size
*PP-A075x050	1/2"
PP-A075	3/4"
PP-A100	1"
**PP-A100x125	1 1/4"
PP-A150	1 1/2"
PP-A200	2"
PP-A300	3"
PP-A400	4"

### Polypropylene Part B



Part No.	Size
*PP-B075x050-BL	1/2"
PP-B075-BL	3/4"
PP-B100-BL	1"
**PP-B100x125-BL	1 1/4"
PP-B150-BL	1 1/2"
PP-B200-BL	2"
PP-B300-BL	3"
PP-B400	4"

### Polypropylene Part C



Part No.	Size
*PP-C075x050-BL	1/2"
PP-C075-BL	3/4"
PP-C100-BL	1"
**PP-C100x125-BL	1 1/4"
PP-C150-BL	1 1/2"
PP-C200-BL	2"
PP-C300-BL	3"
PP-C400	4"

### Polypropylene Part D



Part No.	Size
*PP-D075x050-BL	1/2"
PP-D075-BL	3/4"
PP-D100-BL	1"
**PP-D100x125-BL	1 1/4"
PP-D150-BL	1 1/2"
PP-D200-BL	2"
PP-D300-BL	3"
PP-D400	4"

### Polypropylene Part E



Part No.	Size
*PP-E075x050	1/2"
PP-E075	3/4"
PP-E100	1"
**PP-E100x125	1 1/4"
PP-E150	1 1/2"
PP-E200	2"
PP-E300	3"
PP-E400	4"

### Polypropylene Part F



Part No.	Size
*PP-F075x050	1/2"
PP-F075	3/4"
PP-F100	1"
**PP-F100x125	1 1/4"
PP-F150	1 1/2"
PP-F200	2"
PP-F300	3"
PP-F400	4"

### Polypropylene Part DP



Part No.	Size
PP-DP050	1/2"
PP-DP075	3/4"
PP-DP100	1"
PP-DP125	1 1/4"
PP-DP150	1 1/2"
PP-DP200	2"
PP-DP300	3"
PP-DP400	4"

### Polypropylene Part DC



Part No.	Size
PP-DC050-BL	1/2"
PP-DC075-BL	3/4"
PP-DC100-BL	1"
PP-DC125-BL	1 1/4"
PP-DC150-BL	1 1/2"
PP-DC200-BL	2"
PP-DC300-BL	3"
PP-DC400	4"

\* 1/2" Size has 3/4" Camlock. \*\* 1 1/4" Size has 1" Camlock.

NOTE: Part B, C, D & DC 4" Do Not Include Locking Arms.



WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

## PART DCL (LOCKABLE DUST CAP)



\*More sizes available

### Aluminum

Part No.	Size
AL-DCL200	2"
AL-DCL300	3"
AL-DCL400	4"

### Stainless

Part No.	Size
SS-DCL200	2"
SS-DCL300	3"
SS-DCL400	4"

\*Pad lock not included

## COUPLER REDUCER



\*More sizes available

### Aluminum

Part No.	Size
AL-DA2015	2" x 1½"
AL-DA3020	3" x 2"
AL-DA3040	3" x 4"
AL-DA4020	4" x 2"
AL-DA4030	4" x 3"
AL-DA6030	6" x 3"
AL-DA6040	6" x 4"

### Stainless

Part No.	Size
SS-DA3020	3" x 2"
SS-DA4020	4" x 2"
SS-DA4030	4" x 3"

## DOUBLE FEMALE ADAPTER



\*More sizes available

### Aluminum

Part No.	Size
AL-DD2020	2" x 2"
AL-DD3020	3" x 2"
AL-DD3030	3" x 3"
AL-DD4020	4" x 2"
AL-DD4030	4" x 3"
AL-DD4040	4" x 4"
AL-DD6040	6" x 4"
AL-DD6060	6" x 6"

### Stainless

Part No.	Size
SS-DD2020	2" x 2"
SS-DD3020	3" x 2"
SS-DD3030	3" x 3"
SS-DD4030	4" x 3"
SS-DD4040	4" x 4"
SS-DD6060	6" x 6"

## SPOOL ADAPTER



\*More sizes available

### Aluminum

Part No.	Size
AL-AA2020	2" x 2"
AL-AA3020	3" x 2"
AL-AA3030	3" x 3"
AL-AA4020	4" x 2"
AL-AA4030	4" x 3"
AL-AA4040	4" x 4"
AL-AA6040	6" x 4"
AL-AA6060	6" x 6"

### Stainless

Part No.	Size
SS-AA2020	2" x 2"
SS-AA3020	3" x 2"
SS-AA3030	3" x 3"
SS-AA4030	4" x 3"
SS-AA4040	4" x 4"
SS-AA6060	6" x 6"

**!** WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

**45° FEMALE x MALE ADAPTER**



Part No.	Size F x M
AL-DA3030-45	3" x 3"
AL-DA4040-45	4" x 4"
AL-DA6060-45	6" x 6"

\*More sizes available

**90° FEMALE x MALE ADAPTER**



Part No.	Size F x M
AL-DA3030-90	3" x 3"
AL-DA4040-90	4" x 4"
AL-DA6060-90	6" x 6"

\*More sizes available

**WYE FEMALE x DOUBLE MALE ADAPTER**



Part No.	Size F x M x M
AL-DAA404040-Y	4" x 4" x 4"
AL-DAA606060-Y	6" x 6" x 6"

\*More sizes available

**!** WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## MALE CAMLOCK x 150# FLANGE ADAPTER



Part No.	Description
AL-AFL300	3" Male Camlock x 150# Flange - Aluminum
AL-AFL400	4" Male Camlock x 150# Flange - Aluminum
AL-AFL600	6" Male Camlock x 150# Flange - Aluminum

## FEMALE CAMLOCK x 150# FLANGE ADAPTERS



### Two Arm Style

Part No.	Description
AL-DFL300	3" Female Camlock x 150# Flange - Aluminum
AL-DFL400	4" Female Camlock x 150# Flange - Aluminum
AL-DFL600	6" Female Camlock x 150# Flange - Aluminum



### Four Arm Style

Part No.	Description
AL-DFL400-4	4" Female Camlock x 150# Flange - Aluminum
AL-DFL600-4	6" Female Camlock x 150# Flange - Aluminum

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## SAFETY BUMPS



**Safety Bump Dust Cap**

Part No.	Size
SBDC-200	2"
SBDC-300	3"
SBDC-400	4"



**Safety Bump Dust Plug**

Part No.	Size
SBDP-200	2"
SBDP-300	3"
SBDP-400	4"



**Food Grade Safety Bump Dust Cap**

Part No.	Size
SBDC-200WH	2"
SBDC-300WH	3"
SBDC-400WH	4"

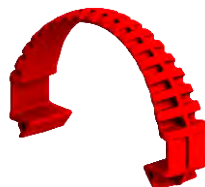


**Food Grade Safety Bump Dust Plug**

Part No.	Size
SBDP-200WH	2"
SBDP-300WH	3"
SBDP-400WH	4"

### Strainer Discs

This strainer has 1/4" holes and threads into female NPT threads



**Safety Locks**

Part No.	Size	Color
SL-200	2"	Blue
SL-300	3"	Red
SL-400	4"	Orange



**Stainless Steel Strainer Discs**

Part No.	Size
SDS-200	2"
SDS-300	3"
SDS-400	4"

**Aluminum Strainer Discs**

Part No.	Size
SDA-200	2"
SDA-300	3"
SDA-400	4"

## CAMLOCK SAFETY STRAPS



The highly visible 1½" wide flourescent orange straps grab your attention and have numerous applications. Use the safety straps to secure cam arms down on Quick Couplers or to secure bundles of hose and tubing.

Part No.	Size
CGVS-19	19"
CGVS-30	30"

## HANDLE, RING & PIN



**Stainless Handle, Ring & Pin**

Part No.	Size
SS-HRP075	½" - ¾"
SS-HRP100	1"
SS-HRP200	1¼" - 2½"
SS-HRP300	3" - 4"
SS-HRP600	6"

**Brass Handle, Ring & Pin**

Part No.	Size
BR-HRP075	½" - ¾"
BR-HRP100	1"
BR-HRP200	1¼" - 2½"
BR-HRP300	3" - 4"
BR-HRP600	6"

**Chains & Lock Pins**

Part No.	Description
AC-1	Camlock Safety Lock Pin
CH-SS-6	Security Chain with Lock 6"
CH-SS-12	Security Chain with Lock 12"

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**CAMLOCK GASKETS**



	Buna-N	Neoprene	Teflon Buna Filler	Viton
<b>TEMP.</b>	-40°F to +200°F	-40°F to +200°F	-40°F to +200°F	-20°F to +400°F
<b>Size</b>	<b>Part No.</b>	<b>Part No.</b>	<b>Part No.</b>	<b>Part No.</b>
1/2"	CGS-050	--	--	--
3/4"	CGS-075	CGNE-075	CGTB-075	CGVT-075
1"	CGS-100	CGNE-100	CGTB-100	CGVT-100
1 1/4"	CGS-125	CGNE-125	CGTB-125	CGVT-125
1 1/2"	CGS-150	CGNE-150	CGTB-150	CGVT-150
2"	CGS-200	CGNE-200	CGTB-200	CGVT-200
2 1/2"	CGS-250	CGNE-250	CGTB-250	CGVT-250
3"	CGS-300	CGNE-300	CGTB-300	CGVT-300
4"	CGS-400	CGNE-400	CGTB-400	CGVT-400
5"	CGS-500	--	--	--
6"	CGS-600	--	CGTB-600	--
8"	CGS-800	--	--	--

\*Other elastomers available upon request

 **WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

## STANDARD & ONE CAM CAMLOCK PRESSURE RATINGS

### Standard Pressure Ratings for Camlock Couplings at 70°

Size	Aluminum/Brass/Stainless Max W.P. PSI	Polypropylene Max W.P. PSI
1/2"	150	125
3/4"	250	125
1"	250	125
1 1/4"	250	125
1 1/2"	250	125
2"	250	125
2 1/2"	150	--
3"	125	75
4"	100	75
6"	75	--

### ONE CAM Part C & Part E Pressure Ratings

Size	Aluminum/Brass/Stainless Max W.P. PSI
1 1/2"	250
2"	250
3"	150
4"	150
6"	120



\* CAM AND GROOVE COUPLINGS SHOULD NEVER BE USED FOR COMPRESSED AIR, GASES OR STEAM.

 WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## 8" CAMLOCKS STYLE 1 & 2 IDENTIFICATION

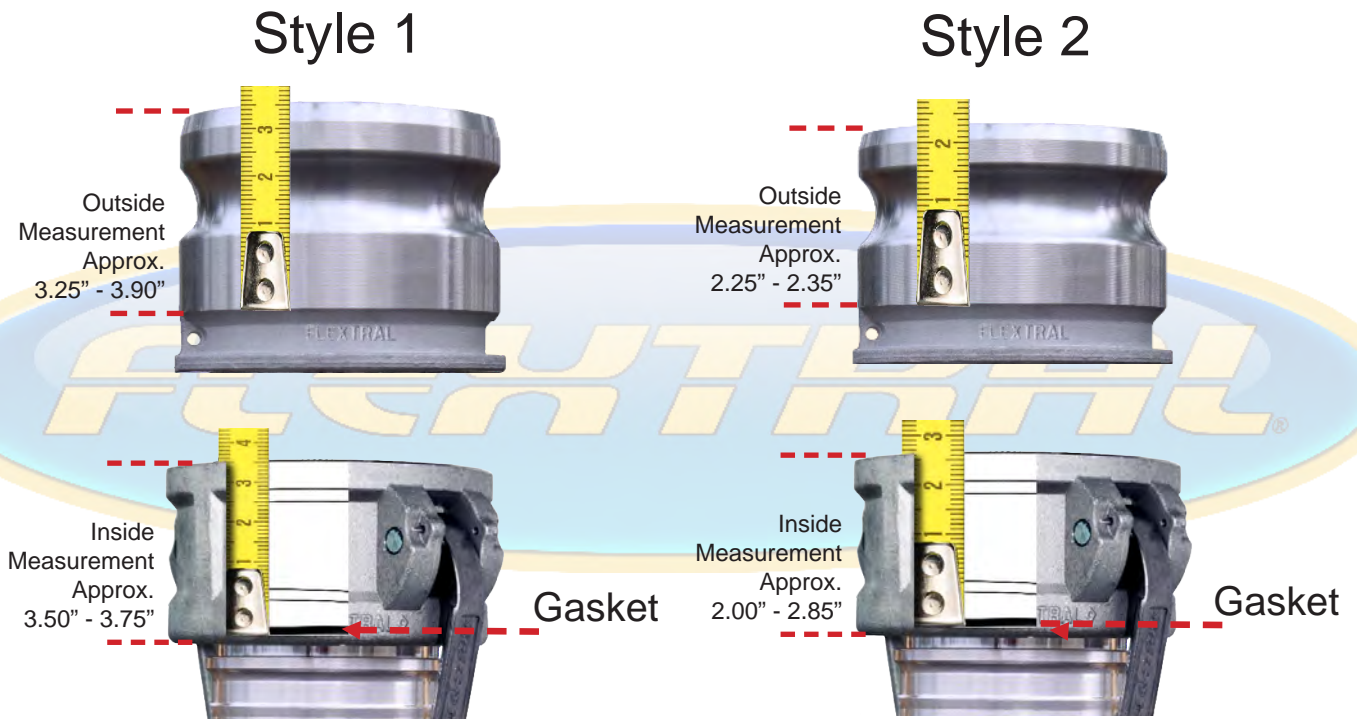
All camlock couplers and grooved mating ends in sizes ¾" - 6" are manufactured in accordance to Mil-A-A59326D. There is no Mil standard for 8" Camlock couplings, hence there are two styles in today's market and the two do not interchange.

The original Style #1 is the Ever-Tite standard. The Style #2 is manufactured to the P-T standard. The Style #1 is notably larger and will not interchange with the #2 style. The suppliers for both Styles can be seen below.

Original Style/#1  
 Ever-Tite  
 Dixon Andrews  
 NECO  
 Kuri HD801  
 PT Import – Style #1  
 UPD  
 Sealfast

Style #2  
 PT Domestic  
 PT Import – Style #2  
 KOA (Import) AL-x800  
 Dixon Boss Lock  
 Dixon Global  
 Jason  
 Campbell Cobra

The quickest way to check the style of your existing couplings is to measure the machined diameter of the adapter. If the adapter is larger than 9" O.D, then you have the Original Style #1. If the diameter is less than 9" O.D., then you have the Style #2.



**⚠ WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>





**GENUINE BAUER**

# COUPLING SYSTEM



FOR A GREEN WORLD

MASTER DISTRIBUTOR OF BAUER

## ADVANTAGES

### FAST

- A complete system quickly installed, even in the dark. No tools – no loose parts.

### FLEXIBILITY

- With up to 30° articulation on coupling joint. Suction and pressure-proof, providing excellent flexibility of installation, ideal for difficult site conditions.

### STRONG & DURABLE

- Produced from high-grade high-tensile steel, abrasion-resistant hot-dip galvanisation according to DIN 50976 – also stainless steel option.

### HEAT RESISTANCE

- Resists up to 110 °C (230 °F) with special seals.

### TENSILE RESISTANCE


- Suction and pressure-proof while subject to tensile stress.

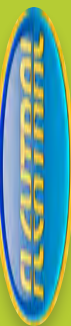
### VERSATILE

- Suitable for handling all types of products: hot dip galvanized or stainless steel product range. Special coatings on request.

### SECURITY

- With special locking pin system option.

 WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>





## APPLICATIONS

- Mining and tunneling, civil engineering projects, road construction, delivery of fresh water, waste water, and compressed air. Suction and delivery lines for site dewatering, on shore/offshore drilling, ship to ship/shore transfer.
- In civil/military emergency, drinking water supply, disaster and fire control, temporary and emergency water supply lines, sewage, sludge, and waste disposal, bypass lines.
- Exhaust gas emission, oil industry applications. Pneumatic conveyance systems for powder and granular materials. Vacuum loading and extraction systems.

## MEDIA

- Potable drinking water, waste water, compressed air, gasses, and exhaust fumes, sludge, mortar, bentonite, crude oil, and oil products, pneumatic loading of powder materials, and many more, subject to suitable seal options.
- Stainless steel range suitable for food, pharmaceutical, and chemical industries.



## GENUINE BAUER DESIGN

- Special locking pin system – absolutely necessary for pressurized media and as a protection against unintentional opening.



**⚠** WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## TYPE B - BAUER



FOR A GREEN WORLD

MASTER DISTRIBUTOR OF BAUER

*\*All female couplings include rubber O-Rings.*

*\*All male couplings include lever assemblies.*



**Description:**  
Galvanized female coupling with hose tail.

### Female Socket x Hose Shank

Part No.	Size
BLSS-200-GB	2"
BLSS-300-GB	3"
BLSS-400-GB	4"
BLSS-600-GB	6"
BLSS-800-GB	8"
BLSS-1000-GB	10"
BLSS-1200-GB	12"



**Description:**  
Galvanized male coupling with hose tail and lever ring.

### Male Ball x Hose Shank

Part No.	Size
BLBS-200-GB	2"
BLBS-300-GB	3"
BLBS-400-GB	4"
BLBS-600-GB	6"
BLBS-800-GB	8"
BLBS-1000-GB	10"
BLBS-1200-GB	12"



**Description:**  
Galvanized female coupling with male pipe thread.

### Female Socket x Male Pipe

Part No.	Size
BLSM-400-GB	4"
BLSM-600-GB	6"
BLSM-800-GB	8"



**Description:**  
Galvanized male coupling with male pipe thread.

### Male Ball x Male Pipe

Part No.	Size
BLBM-400-GB	4"
BLBM-600-GB	6"
BLBM-800-GB	8"



**Description:**  
Galvanized round hole strainer with male coupling.

### Male Ball x Round Hole Strainer

Part No.	Size
BLMS-400-GB	4"
BLMS-600-GB	6"



**Description:**  
Galvanized round hole strainer with male coupling.

### Male Ball x Round Hole Strainer

Part No.	Size
BLMS-800-GB	8"
BLMS-1000-GB	10"
BLMS-1200-GB	12"



**Description:**  
Galvanized round hole strainer with female coupling.

### Female Socket x Round Hole

Part No.	Size
BLFS-800-GB	8"
BLFS-1000-GB	10"
BLFS-1200-GB	12"

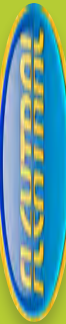


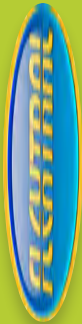
**Description:**  
Galvanized drainage pillars strainer with type B male ball and lever ring

### Male Ball x Sewer Screen

Part No.	Size
BLMSCR-400-GB	4"
BLMSCR-600-GB	6"
BLMSCR-800-GB	8"

**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>





## TYPE B - BAUER



MASTER DISTRIBUTOR OF BAUER



### Male Ball x Female Pipe

Part No.	Size
BLBF-400-GB	4"
BLBF-600-GB	6"
BLBF-800-GB	8"

**Description:**  
Galvanized male with locking lever x female pipe.



### Female Socket x Female Pipe

Part No.	Size
BLSF-400-GB	4"
BLSF-600-GB	6"
BLSF-800-GB	8"

**Description:**  
Galvanized female threaded socket / female.



### Inline Tee with Male Branch

Part No.	Size
BLTMFM-400-GB	4"
BLTMFM-600-GB	6"
BLTMFM-800-GB	8"

**Description:**  
Galvanized tee single offtake with male coupling.



### Inline Tee with Female Branch

Part No.	Size
BLTMFF-400-GB	4"
BLTMFF-600-GB	6"
BLTMFF-800-GB	8"

**Description:**  
Galvanized tee single offtake with female coupling.



### Inlet Tee with Female Branch

Part No.	Size
BLTMMF-400-GB	4"
BLTMMF-600-GB	6"

**Description:**  
Galvanized tee single offtake with two male couplings.



### Male Ball x Female Socket Elbow 45°

Part No.	Size
BLEL45-400-GB	4"
BLEL45-600-GB	6"
BLEL45-800-GB	8"
BLEL45-1000-GB	10"
BLEL45-1200-GB	12"

**Description:**  
45° Galvanized bend with couplings.



### Male Ball x Female Socket Elbow 90°

Part No.	Size
BLEL90-400-GB	4"
BLEL90-600-GB	6"
BLEL90-800-GB	8"
BLEL90-1000-GB	10"
BLEL90-1200-GB	12"

**Description:**  
90° Galvanized bend with couplings.



### Double Male Ball Y

Part No.	Size
BLYDBS-400-GB	4"
BLYDBS-600-GB	6"
BLYDBS-800-GB	8"
BLYDBS-1200-GB	12"

**Description:**  
Galvanized "Y" with double male ball x female socket.

\*All female couplings include rubber O-Rings.

\*All male couplings include lever assemblies.

**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

## TYPE B - BAUER



MASTER DISTRIBUTOR OF BAUER

\*All female couplings include rubber O-Rings.  
\*All male couplings include lever assemblies.



### Double Female Socket Y

Part No.	Size
BLYDSB-400-GB	4"
BLYDSB-600-GB	6"
BLYDSB-800-GB	8"
BLYDSB-1200-GB	12"

**Description:**

Galvanized "Y" with double female socket x male ball.



**Description:**

Galvanized steel male end cap.

### Female Cap

Part No.	Size
BLEC-400-GB	4"
BLEC-600-GB	6"
BLEC-800-GB	8"
BLEC-1000-GB	10"
BLEC-1200-GB	12"



**Description:**

Galvanized steel male end plug.

### Male Plug

Part No.	Size
BLEP-400-GB	4"
BLEP-600-GB	6"
BLEP-800-GB	8"
BLEP-1000-GB	10"
BLEP-1200-GB	12"



**Description:**

Galvanized reducing adapter female socket x male ball.

### Bauer Reducers

Part No.	Size
BLRSB-600400-GB	6"x 4"
BLRSB-800600-GB	8"x 6"
BLRSB-1000A800B-GB	10"A x 8"B
BLRSB-1200A800B-GB	12"A x 8"B



**Description:**

Galvanized increaser adapter female socket x male ball.

### Bauer Increasers

Part No.	Size
BLISB-400600-GB	4"x6"
BLISB-600800-GB	6"x8"
BLISB-800B1000A-GB	8"B x 10"A
BLISB-800B1200A-GB	8"B x 12"A



**Description:**

Galvanized ASA 150 flange with female coupling.

### Female Socket x 150# ASA Flange

Part No.	Size
BLSFL-400-GB	4"
BLSFL-600-GB	6"
BLSFL-800-GB	8"
BLSFL-1000-GB	10"
BLSFL-1200-GB	12"



**Description:**

Galvanized ASA 150 flange with male coupling.

### Male Ball x 150# ASA Flange

Part No.	Size
BLBFL-400-GB	4"
BLBFL-600-GB	6"
BLBFL-800-GB	8"
BLBFL-1000-GB	10"
BLBFL-1200-GB	12"



### Male Ball x Flange Increasers

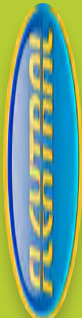
Part No.	Size
BLIFLB-400600-GB	4" Flange x 6" Ball
BLIFLB-600800-GB	6" Flange x 8" Ball

**Description:**

Galvanized increasing adapter ASA 150# flange x male ball.

WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>





**TYPE B - BAUER**



MASTER DISTRIBUTOR OF BAUER

*\*All female couplings include rubber O-Rings.  
\*All male couplings include lever assemblies.*



**Female Socket x 150# ASA Flange Reducer**

Part No.	Size
BLRFLS-1000800-GB	10" Flange x 8" Socket
BLRFLS-1200800-GB	12" Flange x 8" Socket

**Description:**  
Galvanized ASA 150 flange with female coupling.



**Female Socket x ASA 150# Flange Increases**

Part No.	Size
BLIFLS-400600-GB	4" Flange x 6" Socket
BLIFLS-600800-GB	6" Flange x 8" Socket

**Description:**  
Galvanized increasing adapter ASA 150# flange x female socket.



**Bauer Lever Ring**

Part No.	Size
BLL-200-GB	2"
BLL-300-GB	3"
BLL-400-GB	4"
BLL-600-GB	6"
BLL-800-GB	8"
BLL-1000-GB	10"
BLL-1200-GB	12"

**Description:**  
Galvanized lever ring.



**Male Ball x 150# ASA Flange Reducer**

Part No.	Size
BLRFLB-1000800-GB	10" Flange x 8" Ball
BLRFLB-1200800-GB	12" Flange x 8" Ball

**Description:**  
Galvanized ASA 150 flange with male coupling.



**Stepbow**

Part No.	Size
BLMFSB-400	4"
BLMFSB-600	6"
BLMFSB-800	8"
BLMFSB-1000	10"
BLMFSB-1200	12"



**Rubber O-Rings**

Part No.	Size
BLG-200	2"
BLG-300	3"
BLG-400	4"
BLG-600	6"
BLG-800	8"
BLG-1000	10"
BLG-1200	12"

**Description:**  
Rubber O-Ring.

**!** WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

## TYPE A - ANFOR STYLE

\*All female couplings include rubber O-Rings.

\*All male couplings include lever assemblies.



**Male Ball x  
Hose Shank**

Part No.	Size
BLBS-1000A	10"
BLBS-1200A	12"
BLBS-1600A	16"

**Description:**  
Galvanized male  
coupling with hose tail.



**Female Socket x  
Hose Shank**

Part No.	Size
BLSS-1000A	10"
BLSS-1200A	12"
BLSS-1600A	16"

**Description:**  
Galvanized female  
coupling with hose tail.  
Includes rubber O-Ring.



**Female Socket x  
ASA 150# Flange**

Part No.	Size
BLSFL-1000A	10"
BLSFL-1200A	12"
BLSFL-1600A	16"

**Description:**  
Galvanized ASA 150#  
flange with female coupling.



**Male Ball x  
ASA 150# Flange**

Part No.	Size
BLBFL-1000A	10"
BLBFL-1200A	12"
BLBFL-1600A	16"

**Description:**  
Galvanized ASA 150#  
Flange with male coupling.



**Male Ball x Round  
Hole Strainer**

Part No.	Size
BLMS-1000A	10"
BLMS-1200A	12"

**Description:**  
Galvanized strainer  
with male coupling.



**Female Socket x  
Round Hole Strainer**

Part No.	Size
BLFS-1000A	10"
BLFS-1200A	12"

**Description:**  
Galvanized strainer with  
female coupling.



**90° Degree Male Ball x  
Female Socket**

Part No.	Size
BLEL90-1000A	10"
BLEL90-1200A	12"
BLEL90-1600A	16"

**Description:**  
Galvanized A-Style 90°  
elbow.



**45° Degree Male Ball x  
Female Socket**

Part No.	Size
BLEL45-1000A	10"
BLEL45-1200A	12"
BLEL45-1600A	16"

**Description:**  
Galvanized a-style 45°  
elbow.

 **WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## TYPE A - ANFOR STYLE

\*All female couplings include rubber O-Rings.

\*All male couplings include lever assemblies.



**Description:**

Galvanized steel female end cap.

**Female End Cap**

Part No.	Size
BLEC-1000A	10"
BLEC-1200A	12"
BLEC-1600A	16"



**Description:**  
Rubber O-Ring.

**Rubber O-Rings**

Part No.	Size
BLG-1000A	10"
BLG-1200A	12"
BLG-1600A	16"

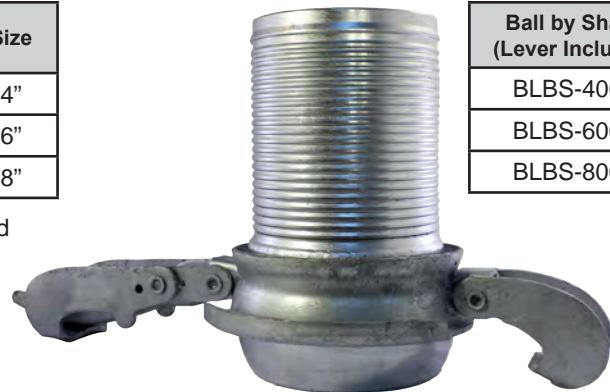
## CRIMP BAUER STYLE COUPLINGS

Flextral Crimp-X Bauer style couplings will interchange 100% with all Bauer style quick couplings and are more competitively priced than Uber Bauer style and the HD Bauer style. One of its biggest advantages is in the proprietary shank design, where we can achieve test pressures on all hose styles from thin lay-flat hoses to hard wall suction/discharge hoses. Bridgestone HosePower can supply a fully-tested and certified hose assembly, which the industry requires.



Female Socket by Shank	Size
BLSS-400X	4"
BLSS-600X	6"
BLSS-800X	8"

\*Rubber O-Ring included



Ball by Shank (Lever Included)	Size
BLBS-400X	4"
BLBS-600X	6"
BLBS-800X	8"

**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

## COMBINATION NIPPLES



### Plated Steel NPT Thread

Part No.	Hose Size
CNT-050-PS	1/2"
CNT-075-PS	3/4"
CNT-100-PS	1"
CNT-125-PS	1 1/4"
CNT-150-PS	1 1/2"
CNT-200-PS	2"
CNT-250-PS	2 1/2"
CNT-300-PS	3"
CNT-400-PS	4"
CNT-500-PS	5"
CNT-600-PS	6"
CNT-800-PS	8"
CNT-1000-PS	10"
CNT-1200-PS	12"

### 316 Stainless Steel NPT Thread

Part No.	Hose Size
CNT-050-S6	1/2"
CNT-075-S6	3/4"
CNT-100-S6	1"
CNT-125-S6	1 1/4"
CNT-150-S6	1 1/2"
CNT-200-S6	2"
CNT-250-S6	2 1/2"
CNT-300-S6	3"
CNT-400-S6	4"
CNT-600-S6	6"
CNT-800-S6	8"
CNT-1000-S6	10"
CNT-1200-S6	12"

### Aluminum NPT Thread

Part No.	Hose Size
CNT-050-AL	1/2"
CNT-075-AL	3/4"
CNT-100-AL	1"
CNT-125-AL	1 1/4"
CNT-150-AL	1 1/2"
CNT-200-AL	2"
CNT-250-AL	2 1/2"
CNT-300-AL	3"
CNT-400-AL	4"

### Brass NPT Thread

Part No.	Hose Size
CNT-050-BR	1/2"
CNT-075-BR	3/4"
CNT-100-BR	1"
CNT-125-BR	1 1/4"
CNT-150-BR	1 1/2"
CNT-200-BR	2"
CNT-250-BR	2 1/2"
CNT-300-BR	3"
CNT-400-BR	4"

### Polypropylene NPT Thread

Part No.	Hose Size
CNT-050-PP	1/2"
CNT-075-PP	3/4"
CNT-100-PP	1"
CNT-125-PP	1 1/4"
CNT-150-PP	1 1/2"
CNT-200-PP	2"
CNT-250-PP	2 1/2"
CNT-300-PP	3"
CNT-400-PP	4"



### Increaser Plated Steel

Part No.	Hose Size	NPT Size
CNT-075X100-PS	3/4"	1"
CNT-100X125-PS	1"	1 1/4"
CNT-125X150-PS	1 1/4"	1 1/2"
CNT-150X200-PS	1 1/2"	2"
CNT-200X250-PS	2"	2 1/2"
CNT-250X300-PS	2 1/2"	3"
CNT-300X400-PS	3"	4"

### Reducer Plated Steel

Part No.	Hose Size	NPT Size
CNT-100X075-PS	1"	3/4"
CNT-125X100-PS	1 1/4"	1"
CNT-150X125-PS	1 1/2"	1 1/4"
CNT-200X150-PS	2"	1 1/2"
CNT-250X200-PS	2 1/2"	2"
CNT-300X250-PS	3"	2 1/2"
CNT-400X300-PS	4"	3"



WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## COMBINATION NIPPLES



**Unplated Grooved**

Part No.	Hose Size
CNG-200	2"
CNG-300	3"
CNG-400	4"
CNG-600	6"
CNG-800	8"
CNG-1000	10"
CNG-1200	12"



**Hose Menders  
Plated Steel**

Part No.	Hose Size
HM-050	1/2"
HM-063	5/8"
HM-075	3/4"
HM-100	1"
HM-125	1 1/4"
HM-150	1 1/2"
HM-200	2"
HM-250	2 1/2"
HM-300	3"
HM-400	4"
HM-500	5"
HM-600	6"
HM-800	8"
HM-1000	10"
HM-1200	12"



**Beveled  
Unplated Steel**

Part No.	Hose Size
CNB-075	3/4"
CNB-100	1"
CNB-125	1 1/4"
CNB-150	1 1/2"
CNB-200	2"
CNB-250	2 1/2"
CNB-300	3"
CNB-400	4"
CNB-600	6"
CNB-800	8"
CNB-1000	10"
CNB-1200	12"

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**FIXED FLANGE**



**Steel 150#  
Fixed Flange**

Part No.	Hose Size
CNF-200	2"
CNF-300	3"
CNF-400	4"
CNF-600	6"
CNF-800	8"
CNF-1000	10"
CNF-1200	12"

**316 Stainless Steel  
150# Fixed Flange**

Part No.	Hose Size
CNF-200-S6	2"
CNF-300-S6	3"
CNF-400-S6	4"
CNF-600-S6	6"
CNF-800-S6	8"

**TURN BACK FLOATING FLANGE**



**Steel 150#  
Turn Back**

Part No.	Hose Size
CNTB-200	2"
CNTB-300	3"
CNTB-400	4"
CNTB-600	6"
CNTB-800	8"
CNTB-1000	10"
CNTB-1200	12"

**316 Stainless Steel  
150# Turn Back**

Part No.	Hose Size
CNTB-200-S6	2"
CNTB-300-S6	3"
CNTB-400-S6	4"
CNTB-600-S6	6"
CNTB-800-S6	8"

\*Turn backs include 150# lap joint flange.

**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## SHORT SHANK COUPLINGS - NPSH THREAD



### Aluminum with Brass Swivel Nut

Part No.	Hose Size
CAB-150	1½"
CAB-200	2"
CAB-250	2½"
CAB-300	3"
CAB-400	4"
CAB-600	6"

### Brass

Part No.	Hose Size
CBB-150	1½"
CBB-200	2"
CBB-250	2½"
CBB-300	3"

### Steel with Plated Iron Nut

Part No.	Hose Size
CSM-150	1½"
CSM-200	2"
CSM-250	2½"
CSM-300	3"

\* NST available in some sizes. Call for availability.



### Wrenches for Short Shanks

Part No.	Size
SW-20	2"
SW-25	2½"
SW-30	3"
SW-40	4"



### Short Shank Washers

Part No.	Size
SSW-075	¾"
SSW-100	1"
SSW-125	1¼"
SSW-150	1½"
SSW-200	2"
SSW-250	2½"
SSW-300	3"
SSW-400	4"
SSW-600	6"

**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

## SUCTION HOSE STRAINERS



**Round Hole Strainer**

Part No.	Hose Size
RHS-150	1½"
RHS-200	2"
RHS-250	2½"
RHS-300	3"
RHS-400	4"
RHS-600	6"
RHS-800	8"
RHS-1000	10"
RHS-1200	12"



**Square Hole Strainer**

Part No.	Hose Size
SHS-150	1½"
SHS-200	2"
SHS-250	2½"
SHS-300	3"
SHS-400	4"
SHS-600	6"
SHS-800	8"
SHS-1000	10"
SHS-1200	12"



**Long Hole Strainer**

Part No.	Hose Size
LHS-150	1½"
LHS-200	2"
LHS-300	3"
LHS-400	4"
LHS-600	6"



**Polyethylene  
Hose Strainer**

Part No.	Hose Size
PHS-150	1½"
PHS-200	2"
PHS-300	3"



**Bottom Hole  
Strainer**

Part No.	Hose Size
BHS-150	1½"
BHS-200	2"
BHS-300	3"



**Top Hole  
Strainer**

Part No.	Hose Size
THS-150	1½"
THS-200	2"
THS-300	3"



WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## FOOT VALVES



**Foot Valve Painted Malleable Iron**

Part No.	Size
FV-150	1½"
FV-200	2"
FV-250	2½"
FV-300	3"
FV-400	4"
FV-600	6"



**Foot Valve Gaskets**

Part No.	Size
FVG-150	1½"
FVG-200	2"
FVG-250	2½"
FVG-300	3"
FVG-400	4"
FVG-600	6"

## MUDHOG DIAPHRAGMS

TPE diaphragms are designed for oil field, oil sludge, biodiesel applications, construction, and more abrasive materials. TPE diaphragms offer a combination of performance and economic benefits. These products have superb flex-fatigue resistance, abrasion resistance, and temperature resistance.



**Diaphragm Red**

Part No.	I.D. Inches	O.D. Inches
MUDHOG-3-TPE	4.88	13.00
MUDHOG-4-TPE	5.50	14.75

\*Call for additional sizes.

NEO rubber diaphragms are designed for municipal slurry, general industrial applications, food processing, marine, and campground waste, construction and more.



**Diaphragm Black**

Part No.	I.D. Inches	O.D. Inches
MUDHOG-3-NEO	5.00	13.00
MUDHOG-4-NEO	5.50	14.75

\*Call for additional sizes.

**!** WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

## FOG NOZZLES



Plastic Fog Nozzle

Part No.	Size	Thread	GPM @ 100PSI	Color
FNA-075	¾"	GHT	8	Green
FNB-075	¾"	NPSH	8	Red
FNB-100	1"	NPSH	22	Red
FNC-100	1"	NST	22	Red
FNB-150	1½"	NPSH	75	Red
FNC-150	1½"	NST	75	Red
FNB-200	2"	NPSH	75	Red
FNB-200-150	2"	NPSH	150	Red
FNC-250*	2½"	NST	150	Red

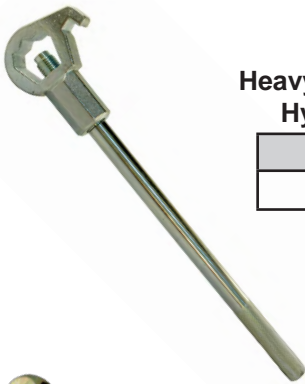
\*Comes with handles.



Brass Fog Nozzle

Part No.	Size	Thread	GPM @ 100PSI
FNB-100-BR	1"	NPSH	36
FNC-100-BR	1"	NST	36
FNB-150-BR	1½"	NPSH	85
FNC-150-BR	1½"	NST	85
FNB-200-BR	2"	NPSH	108
FNC-250-BR	2½"	NST	205

## HYDRANT WRENCHES



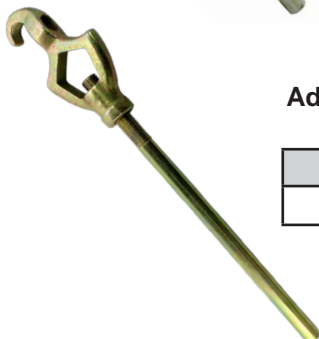
Heavy-Duty Adjustable Hydrant Wrench

Part No.
189



Brass Hydrant Wrench

Part No.
SPANNER



Adjustable Hydrant Wrench

Part No.
AHW

WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>





## BRASS HYDRANT FITTINGS



**NPT x NST  
Hex Adapter**

Part No.	Female Thread	Male Thread
FM1515F	1½" NPT	1½" NST
FM2015F	2" NPT	1½" NST



**NST x GHT  
Hydrant Adapter**

Part No.	Female Thread	Male Thread
HA1576	1½" NST	¾" GHT
HA2576	2½" NST	¾" GHT



**NST x NST  
Hydrant Adapter**

Part No.	Female Thread	Male Thread
HA2515F	2½" NST	1½" NST



**NST x NPT  
Hydrant Adapter**

Part No.	Female Thread	Male Thread
HA1515T	1½" NST	1½" NPT
HA2520T	2½" NST	2" NPT
HA2515T	2½" NST	1½" NPT



**Male Hex  
Nipple Brass**

Part No.	Male Thread	Male Thread
DMH1510F	1½" NPT	1" NST
DMH1515F	1½" NPT	1½" NST
DMH15F15F	1½" NST	1½" NST
DMH1515	1½" NPT	1½" NPSH

\*Other configurations and alloys available upon request.

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## FLANGE GASKETS & BOLT KITS



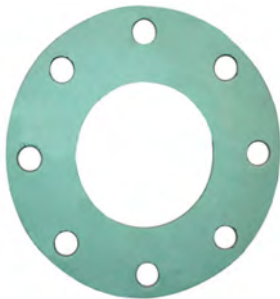
### Red SBR

Part No.	Size
FLG150-300	3"
FLG150-400	4"
FLG150-600	6"
FLG150-800	8"
FLG150-1000	10"
FLG150-1200	12"



### Neoprene

Part No.	Size
FLG150-300-NEO	3"
FLG150-400-NEO	4"
FLG150-600-NEO	6"
FLG150-800-NEO	8"
FLG150-1000-NEO	10"
FLG150-1200-NEO	12"



### Non-Asbestos

Part No.	Size
FLG150-300-NA	3"
FLG150-400-NA	4"
FLG150-600-NA	6"
FLG150-800-NA	8"
FLG150-1000-NA	10"
FLG150-1200-NA	12"



### 150# Flange Bolt Kits

Part No.	Size
FLK150-200	2"
FLK150-300	3"
FLK150-400	4"
FLK150-600	6"
FLK150-800	8"
FLK150-1000	10"
FLK150-1200	12"
FLK150-1400	14"
FLK150-1600	16"
FLK150-1800	18"
FLK150-2000	20"
FLK150-2200	22"
FLK150-2400	24"



### Viton

Part No.	Size
FLG150-300-VT	3"
FLG150-400-VT	4"
FLG150-600-VT	6"
FLG150-800-VT	8"
FLG150-1000-VT	10"
FLG150-1200-VT	12"

\*Flange kits also available with other gasket materials. Call for details.

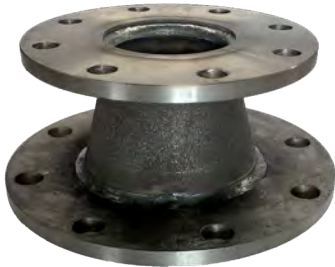
\*Red SBR Standard.

**\*1/8" Gasket thickness is standard. Additional sizes available upon request.**

**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



**FLANGE ADAPTERS**



**Welded Steel Plate  
Flange Reducers (Thin Style)**

Part No.	Size & Description
FLCRP-4030	Plate Flange Reducer 4" x 3"
FLCRP-6040	Plate Flange Reducer 6" x 4"
FLCRP-8060	Plate Flange Reducer 8" x 6"
FLCRP-1080	Plate Flange Reducer 10" x 8"
FLCRP-1210	Plate Flange Reducer 12" x 10"

\*150# Bolt Pattern.



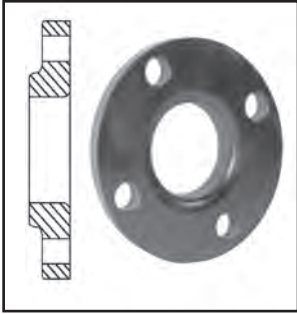
**Cast 150#  
Flange Reducers (Thick Style)**

Part No.	Size & Description
FLCR-4030	Flange Reducer 4" x 3" 150#
FLCR-6040	Flange Reducer 6" x 4" 150#
FLCR-8060	Flange Reducer 8" x 6" 150#
FLCR-1080	Flange Reducer 10" x 8" 150#
FLCR-1210	Flange Reducer 12" x 10" 150#

**\*Adapters are available in 45°, 90°, and other configurations upon request.**

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## COMPOSITE AND PIPE FLANGES



\*Available in Stainless Steel. Other weight classes available upon request.

**Steel 150# ASA  
Floating Lap Joint Flange  
for Turn Back**

Part No.	Size
FLLJ150-150-PS	1½"
FLLJ150-200-PS	2"
FLLJ150-250-PS	2½"
FLLJ150-300-PS	3"
FLLJ150-400-PS	4"
FLLJ150-600-PS	6"
FLLJ150-800-PS	8"
FLLJ150-1000-PS	10"
FLLJ150-1200-PS	12"



\*Available in Stainless Steel. Other weight classes available upon request.

**Steel 150# ASA  
Threaded Flange**

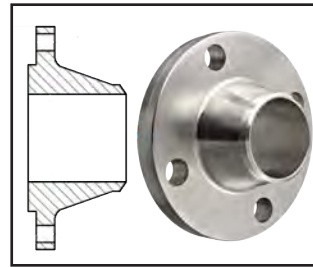
Part No.	Size
FLT150-150-PS	1½"
FLT150-200-PS	2"
FLT150-250-PS	2½"
FLT150-300-PS	3"
FLT150-400-PS	4"
FLT150-600-PS	6"
FLT150-800-PS	8"
FLT150-1000-PS	10"
FLT150-1200-PS	12"



\*Available in Stainless Steel. Other weight classes available upon request.

**Steel 150# ASA Slip-On  
Flange for Weld End**

Part No.	Size
FLS150-150-PS	1½"
FLS150-200-PS	2"
FLS150-250-PS	2½"
FLS150-300-PS	3"
FLS150-400-PS	4"
FLS150-600-PS	6"
FLS150-800-PS	8"
FLS150-1000-PS	10"
FLS150-1200-PS	12"



\*Available in Stainless Steel. Other weight classes available upon request.

**Steel 150#  
Weld Neck Flange**

Part No.	Size
FLWN-150-PS	1½"
FLWN-200-PS	2"
FLWN-250-PS	2½"
FLWN-300-PS	3"
FLWN-400-PS	4"
FLWN-600-PS	6"
FLWN-800-PS	8"
FLWN-1000-PS	10"
FLWN-1200-PS	12"

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## GROOVED FITTINGS

Adapters Are UL/FM Approved



**Flexible Lightweight Grooved Coupling**

Part No.	Size
GFC-150LW	1½"
GFC-200LW	2"
GFC-300LW	3"
GFC-400LW	4"
GFC-600LW	6"
GFC-800LW	8"



**High-Pressure Grooved Rigid Coupling**

Part No.	Size
GHPC-300	3"
GHPC-400	4"
GHPC-600	6"



**Standard Grooved Rigid Coupling**

Part No.	Size
GRC-200	2"
GRC-250	2½"
GRC-300	3"
GRC-400	4"
GRC-500	5"
GRC-600	6"
GRC-800	8"
GRC-1000	10"
GRC-1200	12"



**Grooved Hinged Flange Adapter**

Part No.	Size
GHFA-200	2"
GHFA-300	3"
GHFA-400	4"
GHFA-600	6"
GHFA-800	8"
GHFA-1000	10"
GHFA-1200	12"



**Grooved 45° Degree**

Part No.	Size
G45-200	2"
G45-300	3"
G45-400	4"
G45-600	6"
G45-800	8"
G45-1000	10"
G45-1200	12"



**Grooved 90° Degree**

Part No.	Size
G90-200	2"
G90-300	3"
G90-400	4"
G90-600	6"
G90-800	8"
G90-1000	10"
G90-1200	12"



**Grooved WYE**

Part No.	Size
GY-200	2"
GY-300	3"
GY-400	4"
GY-600	6"
GY-800	8"
GY-1000	10"
GY-1200	12"

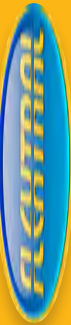


**Grooved Tee**

Part No.	Size
GT-200	2"
GT-300	3"
GT-400	4"
GT-600	6"
GT-800	8"
GT-1000	10"
GT-1200	12"

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## GROOVED FITTINGS

Adapters Are UL/FM Approved

### Grooved Concentric Reducer Threaded



Part No.	Size
GCR-3020T	3" x 2"
GCR-4020T	4" x 2"
GCR-4030T	4" x 3"
GCR-6020T	6" x 2"
GCR-6030T	6" x 3"
GCR-6040T	6" x 4"

### Grooved Flange Adapter



Part No.	Size
GFA-200	2"
GFA-300	3"
GFA-400	4"
GFA-600	6"
GFA-800	8"
GFA-1000	10"
GFA-1200	12"

### Grooved Cap



Part No.	Size
GC-300	3"
GC-400	4"
GC-600	6"

### Grooved Concentric Reducer



Part No.	Size
GCR-3020	3" x 2"
GCR-4020	4" x 2"
GCR-4030	4" x 3"
GCR-6020	6" x 2"
GCR-6030	6" x 3"
GCR-6040	6" x 4"
GCR-6050	6" x 5"
GCR-6060	6" x 6"
GCR-10060	10" x 6"
GCR-10080	10" x 8"

### Grooved Drain Cap



Part No.	Size
GDC-300	3"
GDC-400	4"
GDC-600	6"

### Grooved Butterfly Valve



Part No.	Size
GMP-200	2"
GMP-300	3"
GMP-400	4"
GMP-600	6"
GMP-800	8"

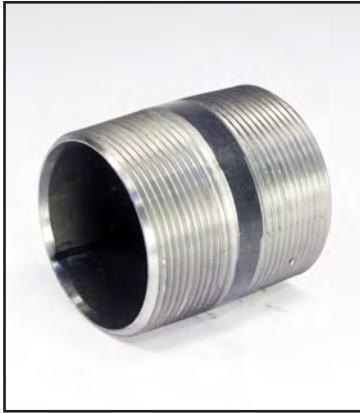


Part No.	Size
GBVL-200	2"
GBVL-300	3"
GBVL-400	4"
GBVL-600	6"
GBVL-800	8"
GBVL-1000	10"
GBVL-1200	12"

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## PIPE FITTINGS - BLACK IRON SCH 40



Pipe Nipples

Part No.	Pipe Size	Length
PNIPBK40-012XCLS	1/8"	Close
PNIPBK40-012X150	1/8"	1 1/2"
PNIPBK40-012X200	1/8"	2"
PNIPBK40-012X250	1/8"	2 1/2"
PNIPBK40-012X300	1/8"	3"
PNIPBK40-012X350	1/8"	3 1/2"
PNIPBK40-012X400	1/8"	4"
PNIPBK40-012X450	1/8"	4 1/2"
PNIPBK40-012X500	1/8"	5"
PNIPBK40-012X550	1/8"	5 1/2"
PNIPBK40-012X600	1/8"	6"
PNIPBK40-025XCLS	1/4"	Close
PNIPBK40-025X150	1/4"	1 1/2"
PNIPBK40-025X200	1/4"	2"
PNIPBK40-025X250	1/4"	2 1/2"
PNIPBK40-025X300	1/4"	3"
PNIPBK40-025X350	1/4"	3 1/2"
PNIPBK40-025X400	1/4"	4"
PNIPBK40-025X450	1/4"	4 1/2"
PNIPBK40-025X500	1/4"	5"
PNIPBK40-025X550	1/4"	5 1/2"
PNIPBK40-025X600	1/4"	6"
PNIPBK40-038XCLS	3/8"	Close
PNIPBK40-038X150	3/8"	1 1/2"
PNIPBK40-038X200	3/8"	2"
PNIPBK40-038X250	3/8"	2 1/2"
PNIPBK40-038X300	3/8"	3"
PNIPBK40-038X350	3/8"	3 1/2"
PNIPBK40-038X400	3/8"	4"
PNIPBK40-038X450	3/8"	4 1/2"
PNIPBK40-038X500	3/8"	5"
PNIPBK40-038X550	3/8"	5 1/2"
PNIPBK40-038X600	3/8"	6"

\*Call for other fitting materials.

Part No.	Pipe Size	Length
PNIPBK40-050XCLS	1/2"	Close
PNIPBK40-050X150	1/2"	1 1/2"
PNIPBK40-050X200	1/2"	2"
PNIPBK40-050X250	1/2"	2 1/2"
PNIPBK40-050X300	1/2"	3"
PNIPBK40-050X350	1/2"	3 1/2"
PNIPBK40-050X400	1/2"	4"
PNIPBK40-050X450	1/2"	4 1/2"
PNIPBK40-050X500	1/2"	5"
PNIPBK40-050X550	1/2"	5 1/2"
PNIPBK40-050X600	1/2"	6"
PNIPBK40-075XCLS	3/4"	Close
PNIPBK40-075X150	3/4"	1 1/2"
PNIPBK40-075X200	3/4"	2"
PNIPBK40-075X250	3/4"	2 1/2"
PNIPBK40-075X300	3/4"	3"
PNIPBK40-075X350	3/4"	3 1/2"
PNIPBK40-075X400	3/4"	4"
PNIPBK40-075X450	3/4"	4 1/2"
PNIPBK40-075X500	3/4"	5"
PNIPBK40-075X550	3/4"	5 1/2"
PNIPBK40-075X600	3/4"	6"
PNIPBK40-100XCLS	1"	Close
PNIPBK40-100X200	1"	2"
PNIPBK40-100X250	1"	2 1/2"
PNIPBK40-100X300	1"	3"
PNIPBK40-100X350	1"	3 1/2"
PNIPBK40-100X400	1"	4"
PNIPBK40-100X450	1"	4 1/2"
PNIPBK40-100X500	1"	5"
PNIPBK40-100X550	1"	5 1/2"
PNIPBK40-100X600	1"	6"

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## PIPE FITTINGS - BLACK IRON SCH 40



**Pipe Nipples**

Part No.	Pipe Size	Length
PNIPBK40-125XCLS	1 1/4"	Close
PNIPBK40-125X200	1 1/4"	2"
PNIPBK40-125X250	1 1/4"	2 1/2"
PNIPBK40-125X300	1 1/4"	3"
PNIPBK40-125X350	1 1/4"	3 1/2"
PNIPBK40-125X400	1 1/4"	4"
PNIPBK40-125X450	1 1/4"	4 1/2"
PNIPBK40-125X500	1 1/4"	5"
PNIPBK40-125X550	1 1/4"	5 1/2"
PNIPBK40-125X600	1 1/4"	6"
PNIPBK40-150XCLS	1 1/2"	Close
PNIPBK40-150X200	1 1/2"	2"
PNIPBK40-150X250	1 1/2"	2 1/2"
PNIPBK40-150X300	1 1/2"	3"
PNIPBK40-150X350	1 1/2"	3 1/2"
PNIPBK40-150X400	1 1/2"	4"
PNIPBK40-150X450	1 1/2"	4 1/2"
PNIPBK40-150X500	1 1/2"	5"
PNIPBK40-150X550	1 1/2"	5 1/2"
PNIPBK40-150X600	1 1/2"	6"
PNIPBK40-200XCLS	2"	Close
PNIPBK40-200X250	2"	2 1/2"
PNIPBK40-200X300	2"	3"
PNIPBK40-200X350	2"	3 1/2"
PNIPBK40-200X400	2"	4"
PNIPBK40-200X450	2"	4 1/2"
PNIPBK40-200X500	2"	5"
PNIPBK40-200X550	2"	5 1/2"
PNIPBK40-200X600	2"	6"

\*Call for other fitting materials.

Part No.	Pipe Size	Length
PNIPBK40-250XCLS	2 1/2"	Close
PNIPBK40-250X300	2 1/2"	3"
PNIPBK40-250X350	2 1/2"	3 1/2"
PNIPBK40-250X400	2 1/2"	4"
PNIPBK40-250X450	2 1/2"	4 1/2"
PNIPBK40-250X500	2 1/2"	5"
PNIPBK40-250X550	2 1/2"	5 1/2"
PNIPBK40-250X600	2 1/2"	6"
PNIPBK40-300XCLS	3"	Close
PNIPBK40-300X300	3"	3"
PNIPBK40-300X350	3"	3 1/2"
PNIPBK40-300X400	3"	4"
PNIPBK40-300X450	3"	4 1/2"
PNIPBK40-300X500	3"	5"
PNIPBK40-300X550	3"	5 1/2"
PNIPBK40-300X600	3"	6"
PNIPBK40-400XCLS	4"	Close
PNIPBK40-400X400	4"	4"
PNIPBK40-400X450	4"	4 1/2"
PNIPBK40-400X500	4"	5"
PNIPBK40-400X550	4"	5 1/2"
PNIPBK40-400X600	4"	6"
PNIPBK40-600XCLS	6"	Close
PNIPBK40-600X600	6"	6"
PNIPBK40-600X800	6"	8"
PNIPBK40-600X1200	6"	12"

 **WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## PIPE FITTINGS - BLACK IRON SCH 40



**Reducing Bushing**

Part No.	Size	
	Male	Female
PBUSHBK40-025X012	1/4"	1/8"
PBUSHBK40-038X012	3/8"	1/8"
PBUSHBK40-038X025	3/8"	1/4"
PBUSHBK40-050X025	1/2"	1/4"
PBUSHBK40-050X038	1/2"	3/8"
PBUSHBK40-075X025	3/4"	1/4"
PBUSHBK40-075X038	3/4"	3/8"
PBUSHBK40-075X050	3/4"	1/2"
PBUSHBK40-100X025	1"	1/4"
PBUSHBK40-100X038	1"	3/8"
PBUSHBK40-100X050	1"	1/2"
PBUSHBK40-100X075	1"	3/4"
PBUSHBK40-125X050	1 1/4"	1/2"
PBUSHBK40-125X075	1 1/4"	3/4"
PBUSHBK40-125X100	1 1/4"	1"
PBUSHBK40-150X125	1 1/2"	1 1/4"
PBUSHBK40-150X100	1 1/2"	1"
PBUSHBK40-150X125	1 1/2"	1 1/4"
PBUSHBK40-200X075	2"	3/4"
PBUSHBK40-200X100	2"	1"
PBUSHBK40-200X125	2"	1 1/4"
PBUSHBK40-200X150	2"	1 1/2"
PBUSHBK40-250X100	2 1/2"	1"
PBUSHBK40-250X125	2 1/2"	1 1/4"
PBUSHBK40-250X150	2 1/2"	1 1/2"
PBUSHBK40-250X200	2 1/2"	2"
PBUSHBK40-300X200	3"	2"
PBUSHBK40-300X250	3"	2 1/2"
PBUSHBK40-400X300	4"	3"

\*Call for other fitting materials.



**Reducing Coupling**

Part No.	Size	
	Female	Female
PBELLBK40-025X012	1/4"	1/8"
PBELLBK40-038X012	3/8"	1/8"
PBELLBK40-038X025	3/8"	1/4"
BBELLBK40-050-025	1/2"	1/4"
PBELLBK40-050X038	1/2"	3/8"
PBELLBK40-075X025	3/4"	1/4"
PBELLBK40-075X038	3/4"	3/8"
PBELLBK40-075X050	3/4"	1/2"
PBELLBK40-100X025	1"	1/4"
PBELLBK40-100X038	1"	3/8"
PBELLBK40-100X050	1"	1/2"
PBELLBK40-100X075	1"	3/4"
PBELLBK40-125X038	1 1/4"	3/8"
PBELLBK40-125X050	1 1/4"	1/2"
PBELLBK40-125X075	1 1/4"	3/4"
PBELLBK40-125X100	1 1/4"	1"
PBELLBK40-150X075	1 1/2"	3/4"
PBELLBK40-150X100	1 1/2"	1"
PBELLBK40-150X125	1 1/2"	1 1/4"
PBELLBK40-200X075	2"	3/4"
PBELLBK40-200X100	2"	1"
PBELLBK40-200X125	2"	1 1/4"
PBELLBK40-200X150	2"	1 1/2"
PBELLBK40-250X100	2 1/2"	1"
PBELLBK40-250X125	2 1/2"	1 1/4"
PBELLBK40-250X150	2 1/2"	1 1/2"
PBELLBK40-250X200	2 1/2"	2"
PBELLBK40-300X200	3"	2"
PBELLBK40-300X250	3"	2 1/2"
PBELLBK40-400X300	4"	3"

\*Call for other fitting materials.

**!** WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

## PIPE FITTINGS - BLACK IRON SCH 40

### Street Elbow

Part No.	Size
PSTEL90BK40-012	1/8"
PSTEL90BK40-025	1/4"
PSTEL90BK40-038	3/8"
PSTEL90BK40-050	1/2"
PSTEL90BK40-075	3/4"
PSTEL90BK40-100	1"
PSTEL90BK40-125	1 1/4"
PSTEL90BK40-150	1 1/2"
PSTEL90BK40-200	2"
PSTEL90BK40-250	2 1/2"
PSTEL90BK40-300	3"
PSTEL90BK40-400	4"



\*Call for other fitting materials.

### Female 90° Elbow

Part No.	Size
PEL90BK40-012	1/8"
PEL90BK40-025	1/4"
PEL90BK40-038	3/8"
PEL90BK40-050	1/2"
PEL90BK40-075	3/4"
PEL90BK40-100	1"
PEL90BK40-125	1 1/4"
PEL90BK40-150	1 1/2"
PEL90BK40-200	2"
PEL90BK40-250	2 1/2"
PEL90BK40-300	3"
PEL90BK40-400	4"



\*Call for other fitting materials.

### 45° Street Elbow

Part No.	Size
PSTEL45BK40-012	1/8"
PSTEL45BK40-025	1/4"
PSTEL45BK40-038	3/8"
PSTEL45BK40-050	1/2"
PSTEL45BK40-075	3/4"
PSTEL45BK40-100	1"
PSTEL45BK40-125	1 1/4"
PSTEL45BK40-150	1 1/2"
PSTEL45BK40-200	2"
PSTEL45BK40-250	2 1/2"
PSTEL45BK40-300	3"
PSTEL45BK40-400	4"



\*Call for other fitting materials.

### Female 45° Elbow

Part No.	Size
PEL45BK40-012	1/8"
PEL45BK40-025	1/4"
PEL45BK40-038	3/8"
PEL45BK40-050	1/2"
PEL45BK40-075	3/4"
PEL45BK40-100	1"
PEL45BK40-125	1 1/4"
PEL45BK40-150	1 1/2"
PEL45BK40-200	2"
PEL45BK40-250	2 1/2"
PEL45BK40-300	3"
PEL45BK40-400	4"



\*Call for other fitting materials.



WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>





## PIPE FITTINGS - BLACK IRON SCH 40

### Female Tee

Part No.	Size
PTEEBK40-012	1/8"
PTEEBK40-025	1/4"
PTEEBK40-038	3/8"
PTEEBK40-050	1/2"
PTEEBK40-075	3/4"
PTEEBK40-100	1"
PTEEBK40-125	1 1/4"
PTEEBK40-150	1 1/2"
PTEEBK40-200	2"
PTEEBK40-250	2 1/2"
PTEEBK40-300	3"
PTEEBK40-400	4"



\*Call for other fitting materials.

### Female Cross

Part No.	Size
PCROSBK40-025	1/4"
PCROSBK40-038	3/8"
PCROSBK40-050	1/2"
PCROSBK40-075	3/4"
PCROSBK40-100	1"
PCROSBK40-125	1 1/4"
PCROSBK40-150	1 1/2"
PCROSBK40-200	2"
PCROSBK40-250	2 1/2"
PCROSBK40-300	3"
PCROSBK40-400	4"



\*Call for other fitting materials.

### Female Caps

Part No.	Size
PCAPBK40-012	1/8"
PCAPBK40-025	1/4"
PCAPBK40-038	3/8"
PCAPBK40-050	1/2"
PCAPBK40-075	3/4"
PCAPBK40-100	1"
PCAPBK40-125	1 1/4"
PCAPBK40-150	1 1/2"
PCAPBK40-200	2"
PCAPBK40-250	2 1/2"
PCAPBK40-300	3"
PCAPBK40-400	4"



\*Call for other fitting materials.

### Male Plugs

Part No.	Size
PPLGSQSBK40-012	1/8"
PPLGSQSBK40-025	1/4"
PPLGSQSBK40-038	3/8"
PPLGSQSBK40-050	1/2"
PPLGSQSBK40-075	3/4"
PPLGSQSBK40-100	1"
PPLGSQSBK40-125	1 1/4"
PPLGSQSBK40-150	1 1/2"
PPLGSQSBK40-200	2"
PPLGSQSBK40-250	2 1/2"
PPLGSQSBK40-300	3"
PPLGSQSBK40-400	4"



\*Call for other fitting materials.

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## PIPE FITTINGS - BLACK IRON SCH 40

### Straight Couplings

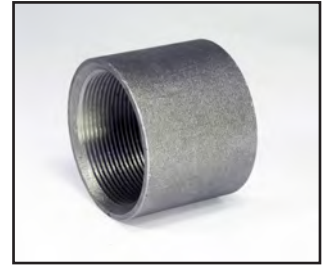
Part No.	Size
PCOUPBK40-025	1/4"
PCOUPBK40-038	3/8"
PCOUPBK40-050	1/2"
PCOUPBK40-075	3/4"
PCOUPBK40-100	1"
PCOUPBK40-125	1 1/4"
PCOUPBK40-150	1 1/2"
PCOUPBK40-200	2"
PCOUPBK40-250	2 1/2"
PCOUPBK40-300	3"
PCOUPBK40-400	4"
PCOUPBK40-600	6"



\*Call for other fitting materials.

### Merchant Full Couplings

Part No.	Size
PCOUPMBK40-025	1/4"
PCOUPMBK40-038	3/8"
PCOUPMBK40-050	1/2"
PCOUPMBK40-075	3/4"
PCOUPMBK40-100	1"
PCOUPMBK40-125	1 1/4"
PCOUPMBK40-150	1 1/2"
PCOUPMBK40-200	2"
PCOUPMBK40-250	2 1/2"
PCOUPMBK40-300	3"
PCOUPMBK40-400	4"



\*Call for other fitting materials.

### Half Couplings

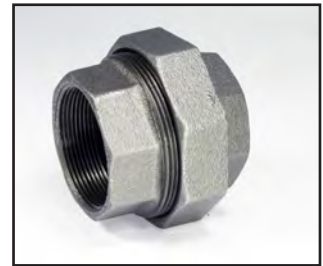
Part No.	Size
PHCOUPBK40-025	1/4"
PHCOUPBK40-038	3/8"
PHCOUPBK40-050	1/2"
PHCOUPBK40-075	3/4"
PHCOUPBK40-100	1"
PHCOUPBK40-125	1 1/4"
PHCOUPBK40-150	1 1/2"
PHCOUPBK40-200	2"
PHCOUPBK40-250	2 1/2"
PHCOUPBK40-300	3"
PHCOUPBK40-400	4"



\*Call for other fitting materials.

### Union

Part No.	Size
PUNIONBK40-025	1/4"
PUNIONBK40-038	3/8"
PUNIONBK40-050	1/2"
PUNIONBK40-075	3/4"
PUNIONBK40-100	1"
PUNIONBK40-125	1 1/4"
PUNIONBK40-150	1 1/2"
PUNIONBK40-200	2"



\*Call for other fitting materials.



WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## BRASS FITTINGS

### Brass Nipples

Part No.	Thread Size	Length
PNIPBR40-012XCLS	1/8"	Close
PNIPBR40-012X150	1/8"	1 1/2"
PNIPBR40-012X200	1/8"	2"
PNIPBR40-012X250	1/8"	2 1/2"
PNIPBR40-012X300	1/8"	3"
PNIPBR40-012X350	1/8"	3 1/2"
PNIPBR40-012X400	1/8"	4"
PNIPBR40-025XCLS	1/4"	Close
PNIPBR40-025X150	1/4"	1 1/2"
PNIPBR40-025X200	1/4"	2"
PNIPBR40-025X250	1/4"	2 1/2"
PNIPBR40-025X300	1/4"	3"
PNIPBR40-025X350	1/4"	3 1/2"
PNIPBR40-025X400	1/4"	4"
PNIPBR40-038XCLS	3/8"	Close
PNIPBR40-038X150	3/8"	1 1/2"
PNIPBR40-038X200	3/8"	2"
PNIPBR40-038X250	3/8"	2 1/2"
PNIPBR40-038X300	3/8"	3"
PNIPBR40-038X350	3/8"	3 1/2"
PNIPBR40-038X400	3/8"	4"
PNIPBR40-050XCLS	1/2"	Close
PNIPBR40-050X150	1/2"	1 1/2"
PNIPBR40-050X200	1/2"	2"
PNIPBR40-050X250	1/2"	2 1/2"
PNIPBR40-050X300	1/2"	3"
PNIPBR40-050X350	1/2"	3 1/2"
PNIPBR40-050X400	1/2"	4"
PNIPBR40-075XCLS	3/4"	Close
PNIPBR40-075X150	3/4"	1 1/2"
PNIPBR40-075X200	3/4"	2"
PNIPBR40-075X300	3/4"	3"



### Hex Nipples

Part No.	Male Thread	Male Thread
5404-02-02-BR	1/8"	1/8"
5404-04-02-BR	1/4"	1/8"
5404-04-04-BR	1/4"	1/4"
5404-06-02-BR	3/8"	1/8"
5404-06-04-BR	3/8"	1/4"
5404-06-06-BR	3/8"	3/8"
5404-08-04-BR	1/2"	1/4"
5404-08-06-BR	1/2"	3/8"
5404-08-08-BR	1/2"	1/2"
5404-12-08-BR	3/4"	1/2"
5404-12-12-BR	3/4"	3/4"
5404-16-16-BR	1"	1"



### Straight Coupling

Part No.	Female Thread	Female Thread
PCOUPBR40-012	1/8"	1/8"
PCOUPBR40-025	1/4"	1/4"
PCOUPBR40-038	3/8"	3/8"
PCOUPBR40-050	1/2"	1/2"
PCOUPBR40-075	3/4"	3/4"



### Bushing

Part No.	Male Thread	Female Thread
PBUSHBR40-025X012	1/4"	1/8"
PBUSHBR40-038X012	3/8"	1/8"
PBUSHBR40-038X025	3/8"	1/4"
PBUSHBR40-050X012	1/2"	1/8"
PBUSHBR40-050X025	1/2"	1/4"
PBUSHBR40-050X038	1/2"	3/8"
PBUSHBR40-075X012	3/4"	1/8"
PBUSHBR40-075X025	3/4"	1/4"
PBUSHBR40-075X038	3/4"	3/8"
PBUSHBR40-075X050	3/4"	1/2"
PBUSHBR40-100X025	1"	1/4"
PBUSHBR40-100X038	1"	3/8"
PBUSHBR40-100X050	1"	1/2"
PBUSHBR40-100X075	1"	3/4"



**!** WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

## BRASS FITTINGS

### Reducing Coupling

Part No.	Female Thread	Female Thread
PBELLBR40-025x012	1/4"	1/8"
PBELLBR40-038x012	3/8"	1/8"
PBELLBR40-038x025	3/8"	1/4"
PBELLBR40-050x025	1/2"	1/4"
PBELLBR40-050x038	1/2"	3/8"
PBELLBR40-075x050	3/4"	1/2"



### Reducing Adapter

Part No.	Female Thread	Male Thread
5405-04-02-BR	1/4"	1/8"
5405-06-02-BR	3/8"	1/8"
5405-06-04-BR	3/8"	1/4"
5405-08-04-BR	1/2"	1/4"
5405-08-06-BR	1/2"	3/8"
5405-12-08-BR	3/4"	1/2"



### Male Tee

Part No.	Male Thread
5600-02-02-02-BR	1/8"
5600-04-04-04-BR	1/4"
5600-06-06-06-BR	3/8"
5600-08-08-08-BR	1/2"
5600-12-12-12-BR	3/4"



### Female Tee

Part No.	Female Thread
PTEEBR40-012	1/8"
PTEEBR40-025	1/4"
PTEEBR40-038	3/8"
PTEEBR40-050	1/2"
PTEEBR40-075	3/4"



### Female Branch Tee

Part No.	Thread Size
5601-02-02-02-BR	1/8"
5601-04-04-04-BR	1/4"
5601-06-06-06-BR	3/8"
5601-08-08-08-BR	1/2"



### Cross

Part No.	Female Thread
PCROSBR40-012	1/8"
PCROSBR40-025	1/4"
PCROSBR40-038	3/8"
PCROSBR40-050	1/2"



### Hex Plug

Part No.	Male Thread
5406P-02-BR	1/8"
5406P-04-BR	1/4"
5406P-06-BR	3/8"
5406P-08-BR	1/2"
5406P-12-BR	3/4"
5406P-16-BR	1"



### Square Plug

Part No.	Male Thread
PPLGSQCBR40-012	1/8"
PPLGSQCBR40-025	1/4"
PPLGSQCBR40-038	3/8"
PPLGSQCBR40-050	1/2"
PPLGSQCBR40-075	3/4"



 WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



BRASS FITTINGS

Female Cap

Part No.	Female Thread
PCAPBR40-012	1/8"
PCAPBR40-025	1/4"
PCAPBR40-038	3/8"
PCAPBR40-050	1/2"
PCAPBR40-075	3/4"



Union Coupling

Part No.	Female Thread
PUNIONBR40-025	1/4"
PUNIONBR40-038	3/8"
PUNIONBR40-050	1/2"



90° Male Elbow

Part No.	Male Thread	Male Thread
5500-02-02-BR	1/8"	1/8"
5500-04-04-BR	1/4"	1/4"
5500-06-06-BR	3/8"	3/8"
5500-08-08-BR	1/2"	1/2"



90° Female Elbow

Part No.	Female Thread	Female Thread
PEL90BR40-012	1/8"	1/8"
PEL90BR40-025	1/4"	1/4"
PEL90BR40-038	3/8"	3/8"
PEL90BR40-050	1/2"	1/2"
PEL90BR40-075	3/4"	3/4"



45° Street Elbow

Part No.	Male Thread	Female Thread
PSTEL45BR40-012	1/8"	1/8"
PSTEL45BR40-025	1/4"	1/4"
PSTEL45BR40-038	3/8"	3/8"
PSTEL45BR40-075	1/2"	1/2"



90° Street Elbow

Part No.	Male Thread	Female Thread
PSTEL90BR40-012	1/8"	1/8"
PSTEL90BR40-025	1/4"	1/4"
PSTEL90BR40-038	3/8"	3/8"
PSTEL90BR40-050	1/2"	1/2"
PSTEL90BR40-075	3/4"	3/4"



WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>





## FRAC HOSE FITTINGS



**206 Integral Frac Coupling**

Part No.	I.D. Inches
FCl206-400500-PS	4" Hose x 4" 206 Hammer Union
FCl206-5060612-PS	5" Hose x 6" 206 Hammer Union



**Frac Male MPT Coupling**

Part No.	I.D. Inches
FCCM-400500-PS	4



**Hammer Union Shank Set**

Part No.	Type	I.D. Inches
CN100-400	FIG100	4
CN206-200	FIG206	2
CN206-300	FIG206	3
CN206-400	FIG206	4
CN206-600	FIG206	6

\*For suction hose only



**Replacement Wingnut**

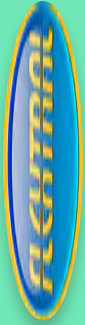
Part No.	I.D. Inches
FTRWN-400	4
FTRWN-800	8



**Wingnut & O-Ring**

Part No.	Description	I.D. Inches
FCW-400	4" 206 FRAC Wing Nut	4
FCO-400	4" FRAC O-Ring (Buna-N)	4

**!** WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## THREADED HAMMER UNIONS

### Pressure Key

Series	Assembly Color Key	PSI
100		1,000
200		2,000
206		2,000
602		6,000
1002		10,000
1502		15,000

**CAUTION:** Mismatching components of one series with another (i.e. series 602 with series 1502) can lead to destruction of property, serious bodily injury or death.



Figure 100

Part No.	Thread Size
HUT100-200	2"
HUT100-250	2½"
HUT100-300	3"
HUT100-400	4"
HUT100-600	6"
HUT100-800	8"

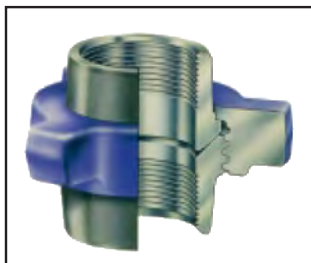


Figure 200

Part No.	Thread Size
HUT200-100	1"
HUT200-125	1¼"
HUT200-150	1½"
HUT200-200	2"
HUT200-250	2½"
HUT200-300	3"
HUT200-400	4"
HUT200-600	6"
HUT200-800	8"
HUT200-1000	10"

\*Available in Butt Weld upon request.

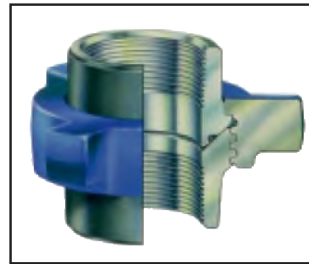


Figure 206

Part No.	Thread Size
HUT206-100	1"
HUT206-125	1¼"
HUT206-150	1½"
HUT206-200	2"
HUT206-250	2½"
HUT206-300	3"
HUT206-400	4"
HUT206-600	6"
HUT206-800	8"
HUT206-1000	10"

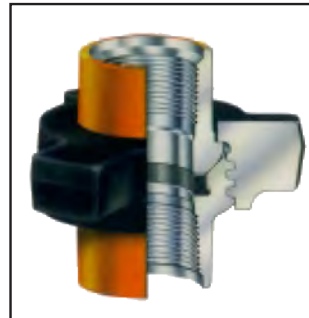


Figure 602

Part No.	Thread Size
HUT602-100	1"
HUT602-125	1¼"
HUT602-150	1½"
HUT602-200	2"
HUT602-300	3"
HUT602-400	4"

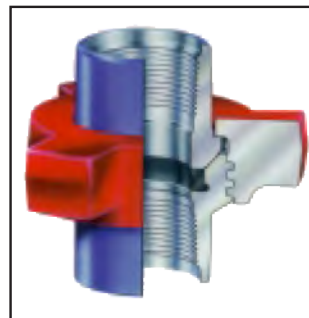


Figure 1002

Part No.	Thread Size
HUT1002-100	1"
HUT1002-125	1¼"
HUT1002-150	1½"
HUT1002-200	2"
HUT1002-300	3"
HUT1002-400	4"

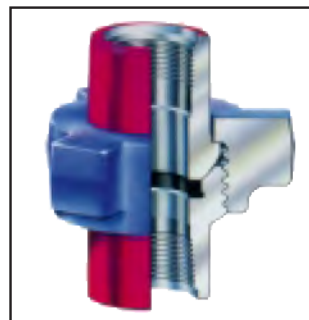


Figure 1502

Part No.	Thread Size
HUT1502-100	1"
HUT1502-150	1½"
HUT1502-200	2"
HUT1502-300	3"
HUT1502-400	4"
HUT1502-500	5"

**!** WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

## PE32-34 CRIMP-FUEL COUPLINGS

These couplings are designed for use with fuel dispensing hoses. (See PE32-PE34) A heavy duty crimp style coupling used on this fueling island, also known as "curb pump" in the dispensing of various petroleum based fuels. The 5/8", 3/4", & 1" inserts are chrome plated. The ferrules are made of aluminum.



Part No.	Hose I.D.	Thread Size
<b>MALE NPT RIGID</b>		
GPMC-063	5/8"	5/8"
GPMC-075	3/4"	3/4"
GPMC-100	1"	1"
<b>MALE NPT SWIVEL</b>		
GPXC-075	3/4"	3/4"
GPXC-100	1"	1"

\*Ferrules included

## GAS PUMP FITTINGS

Machined from brass and then chrome plated. Reusable couplings can be installed with wrenches. All gas pump fittings should be grounded to the wire reinforcement of the hose using a staple or pin during assembly. Correct matching of the hose outside diameter to the coupling is necessary to ensure good coupling retention.



**Permanent**

Part No.	Hose I.D.	Thread Size	Hose O.D.
<b>MALE NPT RIGID</b>			
GPMP-075-120	3/4"	3/4"	1.20"
GPMP-075-122	3/4"	3/4"	1.22"
GPMP-075-127	3/4"	3/4"	1.27"
GPMP-100-139	1"	1"	1.39"
GPMP-100-145	1"	1"	1.45"
GPMP-100-150	1"	1"	1.50"
GPMP-100-156	1"	1"	1.56"

\*These couplings can only be installed using an internal expansion machine.

**Reusable**

Part No.	Hose I.D.	Thread Size	Hose O.D.
<b>MALE NPT RIGID</b>			
GPMR-063-100	5/8"	3/4"	1.00"
GPMR-063-103	5/8"	3/4"	1.03"
GPMR-075-113	3/4"	3/4"	1.13"
GPMR-075-125	3/4"	3/4"	1.25"
GPMR-100-150	1"	1"	1.50"
<b>MALE NPT SWIVEL</b>			
GPXR-075-113	3/4"	3/4"	1.13"
GPXR-075-125	3/4"	3/4"	1.25"
GPXR-100-150	1"	1"	1.50"

**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

## INTERNAL EXPANSION COUPLINGS - SCOVILL STYLE

Internal expansion couplings are manufactured from solid brass forgings. Ferrules are cold-drawn copper alloy. These couplings can only be installed using a Scovill type internal expansion machine.

**\*Measuring outside diameter of each hose end is critical to proper ferrule selection. Each hose end and ferrule must be measured and verified.**



Part No.	Hose I.D.	Thread Size
<b>BRASS MALE NPT</b>		
SCM-075	3/4"	3/4"
SCM-100	1"	1"
SCM-125	1 1/4"	1 1/4"
SCM-138	1 3/8"	1 1/2"
SCM-150	1 1/2"	1 1/2"
SCM-200	2"	2"
<b>BRASS FEMALE NPSM</b>		
SCF-075	3/4"	3/4"
SCF-100	1"	1"
SCF-125	1 1/4"	1 1/4"
SCF-138	1 3/8"	1 1/2"
SCF-150	1 1/2"	1 1/2"
SCF-200	2"	2"



### FERRULES

Part No.	Hose I.D.	Hose O.D.	
		From:	To:
R75AS	3/4"	1 12/64"	1 14/64"
R75BS	3/4"	1 15/64"	1 17/64"
R1AS-A	1"	1 30/64"	1 32/64"
R1BS-A	1"	1 33/64"	1 35/64"
R1CS-A	1"	1 36/64"	1 38/64"
R125BS-A	1 1/4"	1 47/64"	1 50/64"
R125CS-A	1 1/4"	1 51/64"	1 54/64"
R1375DS	1 3/8"	1 55/64"	1 58/64"
R15CS-A	1 1/2"	2 7/64"	2 11/64"
R15DS-A	1 1/2"	2 12/64"	2 14/64"
R2BS	2"	2 35/64"	2 38/64"
R2CS	2"	2 39/64"	2 42/64"

## PE40 FUEL CRIMP FITTING



Part No.	Hose I.D.	Thread Size
<b>MALE NPT</b>		
FT12-12MP	3/4"	3/4"
FT16-16MP	1"	1"



### FERRULES

Part No.	Hose I.D.
B1150 L	3/4"
B1500 L	1"

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## BRASS GARDEN HOSE FITTINGS

### Male GHT x Male GHT Adapter

Part No.	Thread
BGH-MGH-MGH-08FP	GHT x GHT



### GHT Male Hose End

Part No.	Hose Size	Male Thread
BHB06-MGH	3/8"	GHT
BHB08-MGH	1/2"	GHT
BHB10-MGH	5/8"	GHT
BHB12-MGH	3/4"	GHT
BHB16-MGH	1"	NPSM



### Male GHT x Male Pipe

Part No.	Thread
BGH-MGH-06MP	GHT x 3/8" NPT
BGH-MGH-08MP	GHT x 1/2" NPT
BGH-MGH-12MP	GHT x 3/4" NPT



### GHT Female Hose End

Part No.	Hose Size	Female Thread
BHB06-FGH	3/8"	GHT
BHB08-FGH	1/2"	GHT
BHB10-FGH	5/8"	GHT
BHB12-FGH	3/4"	GHT
BHB16-FGH	1"	NPSM



### Male GHT x Female Pipe

Part No.	Thread
BGH-MGH-08FP	GHT x 1/2" NPT
BGH-MGH-12FP	GHT x 3/4" NPT



### Female GHT Swivel x Female NPT

Part No.	Thread
BGH-FGH-08FP	GHT x 1/2" NPT
BGH-FGH-12FP	GHT x 3/4" NPT



### Female GHT Swivel Adapter

Part No.	Thread
BGH-FGHS-FGHS	GHT x GHT







## GARDEN HOSE ACCESSORIES

### Red Vinyl Washer

Part No.
BGH-WASHER-VYL



### Brass Insulated Twist Nozzle


Part No.
GHT-BRT

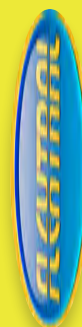


### Garden Hose Nozzle

Part No.
571-C



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**BALL VALVES**



**Brass - Full Port**

Part No.	Size	W.P. PSI
BV-025BRN	1/4"	600
BV-038BRN	3/8"	600
BV-050BRN	1/2"	600
BV-075BRN	3/4"	600
BV-100BRN	1"	600
BV-125BRN	1 1/4"	600
BV-150BRN	1 1/2"	600
BV-200BRN	2"	600
BV-250BRN	2 1/2"	400
BV-300BRN	3"	400
BV-400BRN	4"	400



**Brass Full Port Locking Handle**

Part No.	Size	W.P. PSI
BV-025BRN-LH	1/4"	600
BV-075BRN-LH	3/4"	600
BV-100BRN-LH	1"	600
BV-150BRN-LH	1 1/2"	600
BV-200BRN-LH	2"	600
BV-250BRN-LH	2 1/2"	600



**Stainless Steel - Full Port**

Part No.	Size	W.P. PSI
BV-025SSN	1/4"	1,000
BV-038SSN	3/8"	1,000
BV-050SSN	1/2"	1,000
BV-075SSN	3/4"	1,000
BV-100SSN	1"	1,000
BV-125SSN	1 1/4"	1,000
BV-150SSN	1 1/2"	1,000
BV-200SSN	2"	1,000
BV-300SSN	3"	1,000



**Polypropylene - Full Port**

Part No.	Size	W.P. PSI
BV-125PPN	1 1/4"	150
BV-150PPN	1 1/2"	150
BV-200PPN	2"	150

\*Available in higher working pressure upon request.

\*Female NPT thread standard. Other threads available upon request.

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## BALL VALVES



### 2000# 316SS WOG Full Port

Part No.	Size	W.P. PSI
BV2000FP-025-SS	1/4"	2,000
BV2000FP-038-SS	3/8"	2,000
BV2000FP-050-SS	1/2"	2,000
BV2000FP-075-SS	3/4"	2,000
BV2000FP-100-SS	1"	2,000
BV2000FP-125-SS	1 1/4"	2,000
BV2000FP-150-SS	1 1/2"	2,000
BV2000FP-200-SS	2"	2,000



### 2000# Carbon Steel Full Port

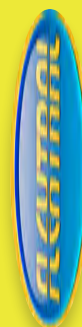
Part No.	Size	W.P. PSI
BV2000FP-025-CS	1/4"	2,000
BV2000FP-038-CS	3/8"	2,000
BV2000FP-050-CS	1/2"	2,000
BV2000FP-075-CS	3/4"	2,000
BV2000FP-100-CS	1"	2,000
BV2000FP-125-CS	1 1/4"	2,000
BV2000FP-150-CS	1 1/2"	2,000
BV2000FP-200-CS	2"	2,000



### 3000# Standard Port Ball Valve Carbon Steel

Part No.	Size	W.P. PSI
BV3000SP-025-CS	1/4"	3,000
BV3000SP-038-CS	3/8"	3,000
BV3000SP-050-CS	1/2"	3,000
BV3000SP-075-CS	3/4"	3,000
BV3000SP-100-CS	1"	3,000
BV3000SP-125-CS	1 1/4"	3,000
BV3000SP-150-CS	1 1/2"	3,000
BV3000SP-200-CS	2"	3,000

**⚠** WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## HIGH-PRESSURE BALL VALVES



**High-Pressure Ball Valves (NPT Thread)**

Part No.	Size	W.P. PSI
BV-025HPN	1/4"	7,250
BV-038HPN	3/8"	7,250
BV-050HPN	1/2"	7,250
BV-075HPN	3/4"	7,250
BV-100HPN	1"	7,250
BV-125HPN	1 1/4"	5,000
BV-150HPN	1 1/2"	5,000
BV-200HPN	2"	5,000



**High-Pressure Ball Valve (SAE Thread)**

Part No.	Size	W.P. PSI
BV-025HPSAE	1/4"	7,250
BV-038HPSAE	3/8"	7,250
BV-050HPSAE	1/2"	7,250
BV-075HPSAE	3/4"	7,250
BV-100HPSAE	1"	7,250
BV-125HPSAE	1 1/4"	5,000
BV-150HPSAE	1 1/2"	5,000
BV-200HPSAE	2"	5,000



**3-Way High-Pressure Ball Valve (NPT Thread)**

Part No.	Size	W.P. PSI
BV-025HPN-3W	1/4"	7,250
BV-038HPN-3W	3/8"	7,250
BV-050HPN-3W	1/2"	7,250
BV-075HPN-3W	3/4"	7,250
BV-100HPN-3W	1"	7,250
BV-125HPN-3W	1 1/4"	5,000
BV-150HPN-3W	1 1/2"	5,000
BV-200HPN-3W	2"	5,000



**3-Way High-Pressure Ball Valve (SAE Thread)**

Part No.	Size	W.P. PSI
BV-025HPNSAE-3W	1/4"	7,250
BV-038HPNSAE-3W	3/8"	7,250
BV-050HPNSAE-3W	1/2"	7,250
BV-075HPNSAE-3W	3/4"	7,250
BV-100HPNSAE-3W	1"	7,250
BV-125HPNSAE-3W	1 1/4"	5,000
BV-150HPNSAE-3W	1 1/2"	5,000
BV-200HPNSAE-3W	2"	5,000

## LEVER AND STEM GATE VALVES



Handle Included

**Lever Gate Valve**

Part No.	Size
LGV-200BR	2"
LGV-300BR	3"
LGV-400BR	4"

**Lever Gate Valve Handle**

Part No.	Size
LGV-200H	2"
LGV-300H	3"
LGV-400H	4"



Handle not Included

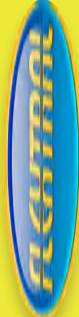
**Stem Gate Valve**

Part No.	Size
SGV-400BR	4"
SGV-600BR	6"
SGV-800BR	8"

**Stem Gate Valve Handle**

Part No.	Size
SGV-400H	4"
SGV-600H	6"
SGV-800H	8"

**!** WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## BRASS CHECK VALVES



Part No.	Size
CVA-050BR	1/2"
CVA-075BR	3/4"
CVA-100BR	1"
CVA-125BR	1 1/4"
CVA-150BR	1 1/2"
CVA-200BR	2"
CVA-250BR	2 1/2"
CVA-300BR	3"

## FLANGED CHECK VALVES



Part No.	Size
FLCV-400-CS	4"
FLCV-600-CS	6"
FLCV-800-CS	8"
FLCV-1000-CS	10"
FLCV-1200-CS	12"

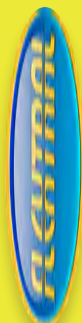
## BRASS GATE VALVES



Part No.	Size
GVA-025BR	1/4"
GVA-038BR	3/8"
GVA-050BR	1/2"
GVA-075BR	3/4"
GVA-100BR	1"
GVA-125BR	1 1/4"
GVA-150BR	1 1/2"
GVA-200BR	2"
GVA-250BR	2 1/2"
GVA-300BR	3"
GVA-400BR	4"

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**BUTTERFLY VALVES**



**Viton Seal, Stainless Disc**

Part No.	Size & Description
BFVW-200-VSS	2" Butterfly Valve Lug
BFVW-300-VSS	3" Butterfly Valve Lug
BFVW-400-VSS	4" Butterfly Valve Lug

\*Call for additional sizes.



**Short, Buna Seal, Ductile Iron Disc**

Part No.	Size & Description
BFVW-400-BDI-SN	4" Butterfly Valve Wafer
BFVW-400-BDI-SN-GR	4" Butterfly Valve Wafer - Green
BFVW-600-BDI-SN	6" Butterfly Valve Wafer
BFVW-800-BDI-SN	8" Butterfly Valve Wafer
BFVW-1000-BDI-SN	10" Butterfly Valve Wafer

\*Call for additional sizes.



**150# Flanged Battery Operated Mag Flow Meter**

Part No.	Size
FMB-300FF	3"
FMB-400FF	4"
FMB-600FF	6"
FMB-800FF	8"
FMB-1000FF	10"
FMB-1200FF	12"

\*Call for additional sizes.

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## GAUGES



**PGL Stainless Liquid Filled Gauge**

- 2.5" dial with AISI 304 SS Case
- Glycerin filled
- 1/4" NPT connection
- Brass internals
- -4°F to 150°F ambient - process temperature
- ±1.5% accuracy
- A pulsation resistant gauge ideal for pumps, compressors, hydraulic presses, machinery, pneumatic equipment, and motors in harsh environments

Part No.	Range	Size & Connection
PGVL2.5-30LM	30"	2.5" dial 1/4" NPT bottom (brass)
PGCL2.5-30/30LM	30" - 0 - 30 psi	
PGCL2.5-30/150LM	30" - 0 - 150 psi	
PGL2.5-15LM	0 - 15 psi	
PGL2.5-30LM	0 - 30 psi	
PGL2.5-60LM	0 - 60 psi	
PGL2.5-100LM	0 - 100 psi	
PGL2.5-160LM	0 - 160 psi	
PGL2.5-200LM	0 - 200 psi	
PGL2.5-300LM	0 - 300 psi	
PGL2.5-400LM	0 - 400 psi	
PGL2.5-600LM	0 - 600 psi	
PGL2.5-1000LM	0 - 1,000 psi	
PGL2.5-1500LM	0 - 1,500 psi	
PGL2.5-2000LM	0 - 2,000 psi	
PGL2.5-3000LM	0 - 3,000 psi	
PGL2.5-5000LM	0 - 5,000 psi	
PGL2.5-6000LM	0 - 6,000 psi	
PGL2.5-10000LM	0 - 10,000 psi	

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## GAUGES



### PGL Stainless Liquid Filled Gauge

- 2.5" dial with AISI 304 SS Case
- 1/4" back mount
- Brass internals
- $\pm 1.5\%$  accuracy

Part No.	Range	Size & Connection
PGCL2.5-30/30CB	30" - 0 - 30 psi	2.5" dial 1/4" NPT back (brass)
PGL2.5-15CB	0 - 15 psi	
PGL2.5-30CB	0 - 30 psi	
PGL2.5-60CB	0 - 60 psi	
PGL2.5-100CB	0 - 100 psi	
PGL2.5-160CB	0 - 160 psi	
PGL2.5-200CB	0 - 200 psi	
PGL2.5-300CB	0 - 300 psi	
PGL2.5-400CB	0 - 400 psi	
PGL2.5-600CB	0 - 600 psi	
PGL2.5-1000CB	0 - 1,000 psi	
PGL2.5-1500CB	0 - 1,500 psi	
PGL2.5-2000CB	0 - 2,000 psi	
PGL2.5-3000CB	0 - 3,000 psi	
PGL2.5-5000CB	0 - 5,000 psi	
PGL2.5-6000CB	0 - 6,000 psi	
PGL2.5-10000CB	0 - 10,000 psi	



### PGL Stainless Liquid Filled Gauge Panel Mount with U-Clamp

- 2.5" dial with AISI 304 SS Case
- 1/4" back mount w/ U-clamp
- Brass internals
- $\pm 1.5\%$  accuracy

Part No.	Range	Size & Connection
PGL2.5-15PM	0 - 15 psi	2.5" dial 1/4" NPT back w/u-clamp (brass)
PGL2.5-30PM	0 - 30 psi	
PGL2.5-60PM	0 - 60 psi	
PGL2.5-100PM	0 - 100 psi	
PGL2.5-160PM	0 - 160 psi	
PGL2.5-200PM	0 - 200 psi	
PGL2.5-300PM	0 - 300 psi	
PGL2.5-400PM	0 - 400 psi	
PGL2.5-600PM	0 - 600 psi	
PGL2.5-1000PM	0 - 1,000 psi	
PGL2.5-1500PM	0 - 1,500 psi	
PGL2.5-6000PM	0 - 6,000 psi	



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## GAUGES



**PGL Stainless Steel Liquid Filled Gauge**

- 2.5" dial with AISI 304 SS Case
- Glycerin filled
- SS internals
- -4°F to 150°F ambient - process temperature
- ±1.5% accuracy
- A pulsation resistant gauge ideal for harsh environments

Part No.	Range	Size & Connection
PGCL2.5-30/30LMSS	30" - 0 - 30 psi	2.5" dial 1/4" NPT bottom (SS)
PGL2.5-15LMSS	0 - 15 psi	
PGL2.5-30LMSS	0 - 30 psi	
PGL2.5-60LMSS	0 - 60 psi	
PGL2.5-100LMSS	0 - 100 psi	
PGL2.5-160LMSS	0 - 160 psi	
PGL2.5-200LMSS	0 - 200 psi	
PGL2.5-300LMSS	0 - 300 psi	
PGL2.5-400LMSS	0 - 400 psi	
PGL2.5-600LMSS	0 - 600 psi	
PGL2.5-1000LMSS	0 - 1,000 psi	
PGL2.5-1500LMSS	0 - 1,500 psi	
PGL2.5-2000LMSS	0 - 2,000 psi	
PGL2.5-3000LMSS	0 - 3,000 psi	
PGL2.5-5000LMSS	0 - 5,000 psi	
PGL2.5-10000LMSS	0 - 10,000 psi	



**PGL Stainless Steel Liquid Filled Gauge**

- 4" dial with AISI 304 SS Case
- Glycerin filled
- 1/4" or 1/2" NPT connection
- Brass or SS internals
- -4°F to 150°F ambient - process temperature
- ±1.5% accuracy
- A pulsation resistant gauge ideal for pumps, compressors, hydraulic presses, machinery, pneumatic equipment, and motors in harsh environments

Part No.	Range	Size & Connection
PGL4-600CB	0 - 600 psi	4" dial 1/4" NPT back (brass)
PGL4-5000CB	0 - 5,000 psi	
PGL4-10000CB	0 - 10,000 psi	
PGCL4-30/30LM12	30" - 0 - 30 psi	4" dial 1/2" NPT bottom (brass)
PGL4-100LM12	0 - 100 psi	
PGL4-160LM12	0 - 160 psi	
PGL4-200LM12	0 - 200 psi	
PGL4-300LM12	0 - 300 psi	
PGL4-600LM12	0 - 600 psi	
PGL4-1000LM12	0 - 1,000 psi	
PGL4-1500LM12	0 - 1,500 psi	
PGL4-2000LM12	0 - 2,000 psi	
PGL4-3000LM12	0 - 3,000 psi	
PGL4-5000LM12	0 - 5,000 psi	
PGL4-10000LM12	0 - 10,000 psi	4" dial 1/2" NPT bottom (SS)
PGL4-15000LM12	0 - 15,000 psi	
PGL4-5000LMSS12	0 - 5,000 psi	

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## GAUGES



### PGD Economy Gauge

- 2.5" dial with a black steel case
- 1/4" NPT connection
- Brass internals
- -4°F to 150°F ambient - process temperature
- ±3-2-3% accuracy
- An economical, all-purpose pressure gauge designed for use in a variety of applications including plumbing, heating, air conditioning, pneumatic, hydraulic, water tanks, air compressors, and OEM applications

Part No.	Range	Size & Connection
PGCD2.5-30/30LM	30" - 0 - 30 psi	2.5" dial 1/4" NPT bottom (brass)
PGD2.5-15LM	0 - 15 psi	
PGD2.5-30LM	0 - 30 psi	
PGD2.5-60LM	0 - 60 psi	
PGD2.5-100LM	0 - 100 psi	
PGD2.5-160LM	0 - 160 psi	
PGD2.5-200LM	0 - 200 psi	
PGD2.5-300LM	0 - 300 psi	
PGD2.5-400LM	0 - 400 psi	
PGD2.5-600LM	0 - 600 psi	
PGD2.5-1000LM	0 - 1,000 psi	
PGD2.5-3000LM	0 - 3,000 psi	
PGD2.5-5000LM	0 - 5,000 psi	
PGD2.5-15CB	0 - 15 psi	
PGD2.5-30CB	0 - 30 psi	
PGD2.5-60CB	0 - 60 psi	
PGD2.5-100CB	0 - 100 psi	
PGD2.5-160CB	0 - 160 psi	
PGD2.5-200CB	0 - 200 psi	
PGD2.5-300CB	0 - 300 psi	
PGD2.5-400CB	0 - 400 psi	



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## SPIRAL BOLT CLAMPS



### Clockwise/ Right Hand

Part No.	Hose I.D.
SBC-200	2"
SBC-250	2½"
SBC-300	3"
SBC-400	4"
SBC-500	5"
SBC-600	6"
SBC-800	8"
SBC-1000	10"
SBC-1200	12"

### Counterclockwise/ Left Hand

Part No.	Hose I.D.
SBCK-200	2"
SBCK-250	2½"
SBCK-300	3"
SBCK-400	4"
SBCK-500	5"
SBCK-600	6"
SBCK-800	8"
SBCK-1000	10"

## DOUBLE BOLT CLAMPS



Part No.	From O.D.	To O.D.
DBC-400	3½"	3 <sup>52</sup> / <sub>64</sub> "
DBC-463	4 <sup>2</sup> / <sub>64</sub> "	4 <sup>18</sup> / <sub>64</sub> "
DBC-525	4 <sup>16</sup> / <sub>64</sub> "	4 <sup>60</sup> / <sub>64</sub> "
DBC-550	4 <sup>32</sup> / <sub>64</sub> "	5 <sup>16</sup> / <sub>64</sub> "
DBC-600	5 <sup>8</sup> / <sub>64</sub> "	5 <sup>44</sup> / <sub>64</sub> "
DBC-675	5 <sup>60</sup> / <sub>64</sub> "	6 <sup>32</sup> / <sub>64</sub> "
DBC-769	6 <sup>32</sup> / <sub>64</sub> "	7 <sup>36</sup> / <sub>64</sub> "
DBC-818	7 <sup>11</sup> / <sub>64</sub> "	8 <sup>12</sup> / <sub>64</sub> "
DBC-875	8 <sup>16</sup> / <sub>64</sub> "	8 <sup>56</sup> / <sub>64</sub> "
DBC-988	8 <sup>60</sup> / <sub>64</sub> "	9 <sup>56</sup> / <sub>64</sub> "
DBC-1125	9 <sup>60</sup> / <sub>64</sub> "	11 <sup>24</sup> / <sub>64</sub> "
DBC-1275	11 <sup>12</sup> / <sub>64</sub> "	13"

**⚠** WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

## PREFORMED PUNCH-TYPE CLAMPS

Made to slide on hose before tightening. Double wrapped and formed to a given diameter size. To order, measure the outside diameter of the hose with its fitting inserted. Then select the next larger clamp diameter.



### Galvanized Carbon Steel

Part No.	Band Width	Clamp I.D.	Standard Package
P-3	3/8"	13/16"	100
P-311	3/8"	13/8"	100
P-4	5/8"	1"	100
P-5	5/8"	1 1/4"	100
P-6	5/8"	1 1/2"	100
P-7	5/8"	1 3/4"	100
P-8	5/8"	2"	100
P-9	5/8"	2 1/4"	100
P-10	5/8"	2 1/2"	50
P-11	5/8"	2 3/4"	50
P-12	5/8"	3"	50
P-14	5/8"	3 1/2"	50
P-16	5/8"	4"	50
P-18	5/8"	4 1/2"	25
P-20	5/8"	5"	25
P-24	5/8"	6"	25
P-28	5/8"	7"	25
P-32	5/8"	8"	25

### Stainless Steel

Part No.	Band Width	Clamp I.D.	Standard Package
P-3-S	3/8"	13/16"	100
P-311-S	3/8"	13/8"	100
P-4-S	5/8"	1"	100
P-5-S	5/8"	1 1/4"	100
P-6-S	5/8"	1 1/2"	100
P-7-S	5/8"	1 3/4"	100
P-8-S	5/8"	2"	100
P-9-S	5/8"	2 1/4"	100
P-10-S	5/8"	2 1/2"	50
P-11-S	5/8"	2 3/4"	50
P-12-S	5/8"	3"	50
P-14-S	5/8"	3 1/2"	50
P-16-S	5/8"	4"	50
P-18-S	5/8"	4 1/2"	25
P-20-S	5/8"	5"	25
P-24-S	5/8"	6"	25
P-28-S	5/8"	7"	25
P-32-S	5/8"	8"	25



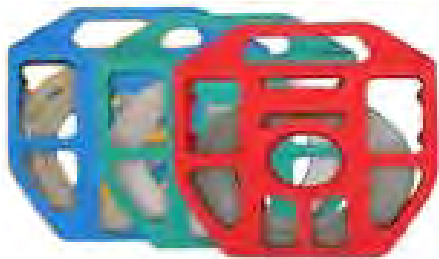
Part No.
P-1000

**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

## STRAPPING AND BUCKLES



Part No.	Item Description
PB-001	Banding Tool



Part No.	Size	Gauge	Package	Pack Qty.
PB-204	1/2"	0.030"	Box	100'
PB-205	5/8"	0.030"	Box	100'
PB-206	3/4"	0.030"	Box	100'
PB-504	1/2"	0.030"	Blue Tote	100'
PB-505	5/8"	0.030"	Green Tote	100'
PB-506	3/4"	0.030"	Red Tote	100'



Part No.	Size	Gauge	Pack Qty.
PB-254	1/2"	0.030"	100
PB-255	5/8"	0.030"	100
PB-256	3/4"	0.030"	100

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## HEAVY-DUTY T-BOLT CLAMPS



Band & Hosing is stainless steel  
T-Bolt & Nut are zinc plated steel

Part No.	Range (mm)	Range (Inch)	Torque(*) (lb/ft)
W2-17-19	17 - 19	1 <sup>1</sup> / <sub>16</sub> - 3 <sup>4</sup> / <sub>16</sub>	62
W2-19-21	19 - 21	3 <sup>4</sup> / <sub>16</sub> - 1 <sup>3</sup> / <sub>16</sub>	62
W2-21-23	21 - 23	1 <sup>9</sup> / <sub>16</sub> - 2 <sup>9</sup> / <sub>32</sub>	62
W2-23-25	23 - 25	2 <sup>9</sup> / <sub>32</sub> - 1	62
W2-25-27	25 - 27	1 - 1 <sup>1</sup> / <sub>16</sub>	62
W2-27-29	27 - 29	1 <sup>1</sup> / <sub>16</sub> - 1 <sup>5</sup> / <sub>32</sub>	62
W2-29-31	29 - 31	1 <sup>5</sup> / <sub>32</sub> - 1 <sup>7</sup> / <sub>32</sub>	142
W2-31-34	31 - 34	1 <sup>7</sup> / <sub>32</sub> - 1 <sup>5</sup> / <sub>16</sub>	142
W2-34-37	34 - 37	1 <sup>5</sup> / <sub>16</sub> - 1 <sup>7</sup> / <sub>16</sub>	142
W2-37-40	37 - 40	1 <sup>7</sup> / <sub>16</sub> - 1 <sup>9</sup> / <sub>16</sub>	142
W2-40-43	40 - 43	1 <sup>9</sup> / <sub>16</sub> - 1 <sup>11</sup> / <sub>16</sub>	142
W2-43-47	43 - 47	1 <sup>11</sup> / <sub>16</sub> - 1 <sup>27</sup> / <sub>32</sub>	142
W2-47-51	47 - 51	1 <sup>27</sup> / <sub>32</sub> - 2	142
W2-51-55	51 - 55	2 - 2 <sup>5</sup> / <sub>32</sub>	142
W2-55-59	55 - 59	2 <sup>5</sup> / <sub>32</sub> - 2 <sup>5</sup> / <sub>16</sub>	142
W2-59-63	59 - 63	2 <sup>5</sup> / <sub>16</sub> - 2 <sup>15</sup> / <sub>32</sub>	142
W2-63-68	63 - 68	2 <sup>15</sup> / <sub>32</sub> - 2 <sup>11</sup> / <sub>16</sub>	142
W2-68-73	68 - 73	2 <sup>11</sup> / <sub>16</sub> - 2 <sup>7</sup> / <sub>8</sub>	221
W2-73-79	73 - 79	2 <sup>7</sup> / <sub>8</sub> - 3 <sup>3</sup> / <sub>32</sub>	221
W2-79-85	79 - 85	3 <sup>3</sup> / <sub>32</sub> - 3 <sup>5</sup> / <sub>16</sub>	221
W2-85-91	85 - 91	3 <sup>5</sup> / <sub>16</sub> - 3 <sup>9</sup> / <sub>16</sub>	221
W2-91-97	91 - 97	3 <sup>9</sup> / <sub>16</sub> - 3 <sup>13</sup> / <sub>16</sub>	221
W2-97-104	97 - 104	3 <sup>13</sup> / <sub>16</sub> - 4 <sup>3</sup> / <sub>32</sub>	221
W2-104-112	104 - 112	4 <sup>3</sup> / <sub>32</sub> - 4 <sup>3</sup> / <sub>8</sub>	221
W2-112-121	112 - 121	4 <sup>3</sup> / <sub>8</sub> - 4 <sup>3</sup> / <sub>4</sub>	221
W2-121-130	121 - 130	4 <sup>3</sup> / <sub>4</sub> - 5 <sup>1</sup> / <sub>8</sub>	221
W2-130-140	130 - 140	5 <sup>1</sup> / <sub>8</sub> - 5 <sup>1</sup> / <sub>2</sub>	443
W2-140-150	140 - 150	5 <sup>1</sup> / <sub>2</sub> - 5 <sup>7</sup> / <sub>8</sub>	443
W2-150-162	150 - 162	5 <sup>7</sup> / <sub>8</sub> - 6 <sup>3</sup> / <sub>8</sub>	443
W2-162-174	162 - 174	6 <sup>3</sup> / <sub>8</sub> - 6 <sup>7</sup> / <sub>8</sub>	443
W2-174-187	174 - 187	6 <sup>7</sup> / <sub>8</sub> - 7 <sup>3</sup> / <sub>8</sub>	443
W2-187-200	187 - 200	7 <sup>3</sup> / <sub>8</sub> - 7 <sup>7</sup> / <sub>8</sub>	443
W2-200-213	200 - 213	7 <sup>7</sup> / <sub>8</sub> - 8 <sup>3</sup> / <sub>8</sub>	443
W2-213-226	213 - 226	8 <sup>3</sup> / <sub>8</sub> - 8 <sup>7</sup> / <sub>8</sub>	443
W2-226-239	226 - 239	8 <sup>7</sup> / <sub>8</sub> - 9 <sup>3</sup> / <sub>8</sub>	443
W2-239-252	239 - 252	9 <sup>3</sup> / <sub>8</sub> - 9 <sup>7</sup> / <sub>8</sub>	443
W2-252-265	252 - 265	9 <sup>15</sup> / <sub>16</sub> - 10 <sup>7</sup> / <sub>16</sub>	443
W2-265-278	265 - 278	10 <sup>7</sup> / <sub>16</sub> - 10 <sup>29</sup> / <sub>32</sub>	443
W2-317-330	317 - 330	12 <sup>7</sup> / <sub>16</sub> - 13	443
W2-DISPLAY-01	20" X 30"	W2 DISPLAY	--

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## HEAVY-DUTY NOMINAL DIAMETER SIZED STANDARD T-BOLT

Heavy-duty T-Bolt clamps provide uniform sealing pressure for a positive, reliable seal. Specifically designed for use in high-vibration and large diameter applications. The most widely used t-bolt design. Typical applications include truck air intake systems, cold side charge air systems, off-road equipment, and industrial machinery.



**Construction:**

- T-Bolt** - 1/4" Plated Carbon Steel
- Hex Nut** - 7/16" Plated Carbon Steel, Nylon Insert
- Band** - 3/4" 300 Stainless Steel
- Bridge** - 3/4" 300 Stainless Steel
- Trunnion** - Plated Carbon Steel

**Installation Torque:**

75 in-ibs (8.5 Nm)

Part No.	Range (mm)	Range (Inch)
TBC131	32 - 36	1 1/4 - 1 13/32
TBC150	34 - 40	1 11/32 - 1 9/16
TBC163	37 - 43	1 15/32 - 1 11/16
TBC175	41 - 46	1 19/32 - 1 13/16
TBC188	44 - 49	1 23/32 - 1 15/16
TBC200	47 - 52	1 27/32 - 2 1/16
TBC212	50 - 55	1 31/32 - 2 3/16
TBC225	53 - 59	2 3/32 - 2 5/16
TBC238	57 - 62	2 7/32 - 2 7/16
TBC250	60 - 65	2 11/32 - 2 9/16
TBC256	59 - 67	2 21/64 - 2 5/8
TBC263	61 - 68	2 13/32 - 2 11/16
TBC275	64 - 71	2 17/32 - 2 13/16
TBC288	67 - 75	2 21/32 - 2 15/16
TBC300	70 - 78	2 25/32 - 3 1/16
TBC312	73 - 81	2 7/8 - 3 3/16
TBC325	77 - 84	3 7/64 - 3 5/16
TBC350	83 - 91	3 17/64 - 3 9/16
TBC362	86 - 94	3 17/64 - 3 9/16
TBC375	89 - 97	3 1/2 - 3 13/16
TBC400	96 - 103	3 3/4 - 4 1/16
TBC425	102 - 110	4 - 4 5/16
TBC450	108 - 116	4 1/4 - 4 1/16
TBC475	115 - 122	4 1/2 - 4 1/16
TBC500	121 - 129	4 3/4 - 4 1/16
TBC525	127 - 126	5 - 5 5/16
TBC550	134 - 141	5 1/4 - 5 9/16
TBC575	140 - 148	5 1/2 - 5 13/16
TBC600	147 - 154	5 3/4 - 6 1/16
TBC625	153 - 160	6 - 6 5/16
TBC650	159 - 167	6 1/4 - 6 9/16
TBC675	166 - 173	6 1/2 - 6 13/16
TBC700	172 - 186	6 3/4 - 7 1/16
TBC725	178 - 186	7 - 7 5/16
TBC750	185 - 192	7 1/4 - 7 9/16
TBC800	197 - 205	7 3/4 - 8 1/16
TBC825	204 - 211	8 - 8 5/16
TBC888	220 - 227	8 21/32 - 8 15/16

\*Call for additional sizes.

**WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## HEAVY-DUTY NOMINAL DIAMETER SIZED STAINLESS STEEL T-BOLT

Heavy-duty T-Bolt clamps provide uniform sealing pressure for a positive, reliable seal. Designed for use in high-vibration and large diameter applications common in heavy trucks, industrial machinery, off-road equipment, agricultural irrigation and machinery. Features a 3/4" or 7/8" wide stainless steel band, depending upon size ordered, and welded construction for reliability.



### Construction:

**T-Bolt** - 1/4" 300 Stainless

**Hex Nut** - 7/16" 300 Stainless Steel, Nylon Insert

**Band** - 3/4", 300 Stainless Steel

**Bridge** - 3/4", 300 Stainless Steel

**Trunnion** - 300 Stainless Steel

### Installation Torque:

75 in-ibs (8.5 Nm)

Part No.	Range (mm)	Range (Inch)
STBC131	32 - 36	1¼ - 1 <sup>13</sup> / <sub>32</sub>
STBC150	34 - 40	1 <sup>11</sup> / <sub>32</sub> - 1 <sup>9</sup> / <sub>16</sub>
STBC163	37 - 43	1 <sup>15</sup> / <sub>32</sub> - 1 <sup>11</sup> / <sub>16</sub>
STBC175	41 - 46	1 <sup>19</sup> / <sub>32</sub> - 1 <sup>13</sup> / <sub>16</sub>
STBC188	44 - 49	1 <sup>23</sup> / <sub>32</sub> - 1 <sup>15</sup> / <sub>16</sub>
STBC200	47 - 52	1 <sup>27</sup> / <sub>32</sub> - 1 <sup>1</sup> / <sub>16</sub>
STBC212	50 - 55	1 <sup>31</sup> / <sub>32</sub> - 2 <sup>9</sup> / <sub>16</sub>
STBC225	53 - 59	2 <sup>3</sup> / <sub>32</sub> - 2 <sup>5</sup> / <sub>16</sub>
STBC238	57 - 62	2 <sup>7</sup> / <sub>32</sub> - 2 <sup>7</sup> / <sub>16</sub>
STBC250	60 - 65	2 <sup>11</sup> / <sub>32</sub> - 2 <sup>9</sup> / <sub>16</sub>
STBC256	59 - 67	2 <sup>21</sup> / <sub>64</sub> - 2 <sup>5</sup> / <sub>8</sub>
STBC263	61 - 68	2 <sup>21</sup> / <sub>32</sub> - 2 <sup>5</sup> / <sub>8</sub>
STBC275	64 - 71	2 <sup>13</sup> / <sub>32</sub> - 2 <sup>11</sup> / <sub>16</sub>
STBC288	67 - 75	2 <sup>17</sup> / <sub>32</sub> - 2 <sup>13</sup> / <sub>16</sub>
STBC300	70 - 78	2 <sup>21</sup> / <sub>32</sub> - 2 <sup>15</sup> / <sub>16</sub>
STBC312	73 - 81	2 <sup>25</sup> / <sub>32</sub> - 3 <sup>1</sup> / <sub>16</sub>
STBC325	77 - 84	2 <sup>7</sup> / <sub>8</sub> - 3 <sup>3</sup> / <sub>16</sub>
STBC350	83 - 91	3 <sup>7</sup> / <sub>64</sub> - 3 <sup>5</sup> / <sub>16</sub>
STBC362	86 - 94	3 <sup>17</sup> / <sub>64</sub> - 3 <sup>9</sup> / <sub>16</sub>
STBC375	89 - 97	3 <sup>1</sup> / <sub>2</sub> - 3 <sup>13</sup> / <sub>16</sub>
STBC400	96 - 103	3 <sup>3</sup> / <sub>4</sub> - 4 <sup>1</sup> / <sub>16</sub>
STBC425	102 - 110	4 - 4 <sup>5</sup> / <sub>16</sub>
STBC450	108 - 116	4 <sup>1</sup> / <sub>4</sub> - 4 <sup>1</sup> / <sub>16</sub>
STBC475	115 - 122	4 <sup>1</sup> / <sub>2</sub> - 4 <sup>1</sup> / <sub>16</sub>
STBC500	121 - 129	4 <sup>3</sup> / <sub>4</sub> - 4 <sup>1</sup> / <sub>16</sub>
STBC525	127 - 126	5 - 5 <sup>5</sup> / <sub>16</sub>
STBC550	134 - 141	5 <sup>1</sup> / <sub>4</sub> - 5 <sup>9</sup> / <sub>16</sub>
STBC575	140 - 148	5 <sup>1</sup> / <sub>2</sub> - 5 <sup>13</sup> / <sub>16</sub>
STBC600	147 - 154	5 <sup>3</sup> / <sub>4</sub> - 6 <sup>1</sup> / <sub>16</sub>
STBC625	153 - 160	6 - 6 <sup>5</sup> / <sub>16</sub>
STBC650	159 - 167	6 <sup>1</sup> / <sub>4</sub> - 6 <sup>9</sup> / <sub>16</sub>
STBC675	166 - 173	6 <sup>1</sup> / <sub>2</sub> - 6 <sup>13</sup> / <sub>16</sub>
STBC700	172 - 186	6 <sup>3</sup> / <sub>4</sub> - 7 <sup>1</sup> / <sub>16</sub>
STBC725	178 - 186	7 - 7 <sup>5</sup> / <sub>16</sub>
STBC750	185 - 192	7 <sup>1</sup> / <sub>4</sub> - 7 <sup>9</sup> / <sub>16</sub>
STBC800	197 - 205	7 <sup>3</sup> / <sub>4</sub> - 8 <sup>1</sup> / <sub>16</sub>
STBC825	204 - 211	8 - 8 <sup>5</sup> / <sub>16</sub>
STBC850	210 - 218	8 <sup>1</sup> / <sub>4</sub> - 8 <sup>9</sup> / <sub>16</sub>
STBC888	220 - 227	8 <sup>21</sup> / <sub>32</sub> - 8 <sup>15</sup> / <sub>16</sub>
STBC1088	270 - 278	10 <sup>21</sup> / <sub>32</sub> - 10 <sup>15</sup> / <sub>16</sub>

\*Call for additional sizes.

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## MICRO GEAR CLAMPS

The Micro Clamp holds tough in tight spots. Narrow and compact, it's easy to install in confined areas. For marine, agricultural, industrial, and automotive uses.



### Stainless Steel with Plated Steel Screw

Part No.	From I.D.	From I.D.
GCM-04	1/4"	5/8"
GCM-06	5/16"	7/8"
GCM-08	7/16"	1"
GCM-10	1/2"	1 1/16"
GCM-12	9/16"	1 1/4"

### All Stainless Steel

Part No.	From I.D.	To I.D.
GCMS-04	1/4"	5/8"
GCMS-06	5/16"	7/8"
GCMS-08	7/16"	1"
GCMS-10	1/2"	1 1/16"
GCMS-12	9/16"	1 1/4"

 WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## WORM GEAR CLAMPS

The 1/2" (12.5mm) band clamps are the workhorse of the industry, designed to meet the requirements of a wide variety of clamping situations. A general purpose clamp for automobiles, plumbing, home, and garden general clamping applications, with anti-corrosive properties varying with the number of components made from stainless steel.



### All Stainless Steel

Part No.	From I.D.	To I.D.
GCS-06	3/8"	7/8"
GCS-08	7/16"	1"
GCS-10	1/2"	1 1/16"
GCS-12	1/2"	1 1/4"
GCS-16	1 1/16"	1 1/2"
GCS-20	3/4"	1 3/4"
GCS-24	1"	2"
GCS-28	1 1/4"	2 1/4"
GCS-32	1 1/2"	2 1/2"
GCS-36	1 3/4"	2 3/4"
GCS-40	2"	3"
GCS-44	2 1/4"	3 1/4"
GCS-48	2 1/2"	3 1/2"
GCS-52	2 3/4"	3 3/4"
GCS-56	3"	4"
GCS-60	3 1/4"	4 1/4"
GCS-64	3 1/2"	4 1/2"
GCS-72	3"	5"
GCS-80	3 1/2"	5 1/2"
GCS-88	4"	6"
GCS-96	4 1/2"	6 1/2"
GCS-104	5"	7"
GCS-128	5 5/8"	8 1/2"
GCS-152	7 1/8"	10"
GCS-188	9 3/8"	12 1/4"
GCS-212	10 7/8"	13 3/4"
GCS-224	11 5/8"	14 1/2"
GCS-236	12 3/8"	15 1/4"
GCS-248	13 1/8"	16"

### Stainless Steel with Plated Steel Screw

Part No.	From I.D.	To I.D.
GC-06	3/8"	7/8"
GC-08	7/16"	1"
GC-10	1/2"	1 1/16"
GC-12	1/2"	1 1/4"
GC-16	1 1/16"	1 1/2"
GC-20	3/4"	1 3/4"
GC-24	1"	2"
GC-28	1 1/4"	2 1/4"
GC-32	1 1/2"	2 1/2"
GC-36	1 3/4"	2 3/4"
GC-40	2"	3"
GC-44	2 1/4"	3 1/4"
GC-48	2 1/2"	3 1/2"
GC-52	2 3/4"	3 3/4"
GC-56	3"	4"
GC-60	3"	4 1/4"
GC-64	3 1/2"	4 1/2"
GC-72	3"	5"
GC-80	3 1/2"	5 1/2"
GC-88	4"	6"
GC-96	4 1/2"	6 1/2"
GC-104	5"	7"
GC-128	5 5/8"	8 1/2"
GC-152	7 1/8"	10"
GC-188	9 3/8"	12 1/4"
GC-200	10 1/8"	13"
GC-212	10 7/8"	13 3/4"
GC-224	11 5/8"	14 1/2"
GC-236	12 3/8"	15 1/4"
GC-248	13 1/8"	16"
GC-312	17 1/8"	20"



WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>


## WAVE CLAMP

The Ideal Wave clamps utilize a patented wave ring technology that self-adjusts automatically as thermal cycling occurs. It expands and contracts as the sealed joint changes, maintaining a constant, steady pressure 360 degrees around the connection. This produces a sealing o-ring effect that prevents leakage.



### Stainless Steel with Plated Steel Screw

Part No.	From I.D.	To I.D.
GCWC-16	1 <sup>3</sup> / <sub>16</sub> "	1 <sup>19</sup> / <sub>64</sub> "
GCWC-19	1 <sup>1</sup> / <sub>16</sub> "	1 <sup>3</sup> / <sub>8</sub> "
GCWC-20	1 "	1 <sup>9</sup> / <sub>16</sub> "
GCWC-22	1 <sup>1</sup> / <sub>8</sub> "	1 <sup>11</sup> / <sub>16</sub> "
GCWC-24	1 <sup>3</sup> / <sub>16</sub> "	1 <sup>13</sup> / <sub>16</sub> "
GCWC-28	1 <sup>5</sup> / <sub>16</sub> "	2 <sup>1</sup> / <sub>16</sub> "
GCWC-32	1 <sup>9</sup> / <sub>16</sub> "	2 <sup>5</sup> / <sub>16</sub> "
GCWC-34	1 <sup>5</sup> / <sub>8</sub> "	2 <sup>7</sup> / <sub>16</sub> "
GCWC-36	1 <sup>11</sup> / <sub>16</sub> "	2 <sup>9</sup> / <sub>16</sub> "
GCWC-40	1 <sup>13</sup> / <sub>16</sub> "	2 <sup>13</sup> / <sub>16</sub> "
GCWC-44	2 <sup>1</sup> / <sub>16</sub> "	3 <sup>1</sup> / <sub>16</sub> "
GCWC-48	2 <sup>3</sup> / <sub>16</sub> "	3 <sup>5</sup> / <sub>16</sub> "
GCWC-52	2 <sup>3</sup> / <sub>8</sub> "	3 <sup>9</sup> / <sub>16</sub> "
GCWC-56	2 <sup>1</sup> / <sub>2</sub> "	3 <sup>13</sup> / <sub>16</sub> "
GCWC-60	2 <sup>11</sup> / <sub>16</sub> "	4 <sup>1</sup> / <sub>16</sub> "
GCWC-64	2 <sup>13</sup> / <sub>16</sub> "	4 <sup>5</sup> / <sub>16</sub> "
GCWC-72	3 <sup>3</sup> / <sub>16</sub> "	4 <sup>13</sup> / <sub>16</sub> "
GCWC-80	3 <sup>9</sup> / <sub>16</sub> "	5 <sup>5</sup> / <sub>16</sub> "
GCWC-88	3 <sup>19</sup> / <sub>16</sub> "	5 <sup>13</sup> / <sub>16</sub> "

 **WARNING** This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>

## QUICK RELEASE CLAMP

The 1/2" (12.5mm) quick release worm drive clamps are the workhorse of the industry, designed to meet the requirements of a wide variety of clamping situations where the clamp must be disengaged to be applied. The swivel-action locking of screw to band makes installation and removal much quicker.



### Stainless Steel with Plated Steel Screw

Part No.	From I.D.	To I.D.
GCQR-12	1/2"	1 1/4"
GCQR-20	3/4"	1 3/4"
GCQR-24	1 1/16"	2"
GCQR-28	1"	2 1/4"
GCQR-36	1"	2 3/4"
GCQR-48	1 1/2"	3 1/2"
GCQR-56	1"	4"
GCQR-72	2"	5"
GCQR-88	2"	6"
GCQR-104	2 7/8"	7"
GCQR-116	1 3/4"	7 3/4"
GCQR-128	1 3/4"	8 1/2"
GCQR-136	1 3/4"	9"
GCQR-152	2"	10"
GCQR-188	2"	12 1/4"
GCQR-232	13 1/8"	15"
GCQR-258	1 3/4"	16 5/8"
GCQR-272	2"	17"
GCQR-288	1 13/16"	18 1/2"
GCQR-332	2"	21 1/4"

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## SANDBLAST COUPLINGS



### Aluminum

Part No.	Size	Hose O.D.
SQC-075-AL	¾"	1.50
SQC-100-AL	1"	1.88
SQC-125-AL	1¼"	2.16
SQC-150-AL	1½"	2.38
SQC-200-AL	2"	2.88

### Yellow Nylon

Part No.	Size	Hose O.D.
SQC-075-YN	¾"	1.50
SQC-100-YN	1"	1.88
SQC-125-YN	1¼"	2.16
SQC-150-YN	1½"	2.38
SQC-200-YN	2"	2.88

\*Available in brass.

## NOZZLE HOLDER



### Aluminum

Part No.	Size	Hose O.D.
SNH-050-AL	½"	1.08
SNH-075-AL	¾"	1.50
SNH-100-AL	1"	1.88
SNH-125-AL	1¼"	2.16
SNH-150-AL	1½"	2.38
SNH-200-AL	2"	2.88

### Yellow Nylon

Part No.	Size	Hose O.D.
SNH-075-YN	¾"	1.50
SNH-100-YN	1"	1.88
SNH-125-YN	1¼"	2.16
SNH-150-YN	1½"	2.38
SNH-200-YN	2"	2.88

\*Available in brass.

## THREADED TANK ADAPTER



### Aluminum

Part No.	Size	Hose O.D.
STA-125-AL	1¼"	2.16
STA-150-AL	1½"	2.38

### Yellow Nylon

Part No.	Size	Hose O.D.
STA-125-YN	1¼"	2.16
STA-150-YN	1½"	2.38

\*Available in brass.



### Washer

Part No.
SW

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## BRASS PUSH-ON FITTINGS



**MP - NPT Male**

Part No.	Hose Bore	Thread
J04-02MP	1/4"	1/8 - 27
J04-04MP	1/4"	1/4 - 18
J04-06MP	1/4"	3/8 - 18
J05-02MP	5/16"	1/8 - 27
J05-04MP	5/16"	1/4 - 18
J06-02MP	3/8"	1/8 - 27
J06-04MP	3/8"	1/4 - 18
J06-06MP	3/8"	3/8 - 18
J06-08MP	3/8"	1/2 - 14
J08-06MP	1/2"	3/8 - 18
J08-08MP	1/2"	1/2 - 14
J08-12MP	1/2"	3/4 - 14
J10-08MP	5/8"	1/2 - 14
J10-12MP	5/8"	3/4 - 14
J12-08MP	3/4"	1/2 - 14
J12-12MP	3/4"	3/4 - 14
J16-16MP	1"	1 - 11 1/2



**FP - NPT Female**

Part No.	Hose Bore	Thread
J04-02FP	1/4"	1/8 - 27
J04-04FP	1/4"	1/4 - 18
J06-04FP	3/8"	1/4 - 18
J06-06FP	3/8"	3/8 - 18
J08-08FP	1/2"	1/2 - 14



**FPXBS - NPSM Female Swivel Ball Seat**

Part No.	Hose Bore	Thread
J04-04FPXBS	1/4"	1/4 - 18
J06-06FPXBS	3/8"	3/8 - 18
J08-08FPXBS	1/2"	1/2 - 14
J12-12FPXBS	3/4"	3/4 - 14



**MP90 - NPT Male - 90° Elbow**

Part No.	Hose Bore	Thread
J05-02MP90	5/16"	1/8 - 27
J05-04MP90	5/16"	1/4 - 18
J06-02MP90	3/8"	1/8 - 27
J06-04MP90	3/8"	1/4 - 18



**FPXG - NPSM Female Swivel Gasket Seal**

Part No.	Hose Bore	Thread
J04-04FPXG	1/4"	1/4 - 18
J06-06FPXG	3/8"	3/8 - 18
J08-08FPXG	1/2"	1/2 - 14
J12-12FPXG	3/4"	3/4 - 14



**MPX - NPT Male Swivel**

Part No.	Hose Bore	Thread
J04-04MPX	1/4"	1/4 - 18
J06-06MPX	3/8"	3/8 - 18
J08-08MPX	1/2"	1/2 - 14
J12-12MPX	3/4"	3/4 - 14



**FJ - JIC 37° Female Swivel**

Part No.	Hose Bore	Thread
J04-04FJ	1/4"	7/16 - 20
J04-05FJ	1/4"	1/2 - 20
J05-05FJ	5/16"	1/2 - 20
J06-05FJ	3/8"	1/2 - 20
J06-06FJ	3/8"	9/16 - 18
J06-08FJ	3/8"	3/4 - 16
J08-08FJ	1/2"	3/4 - 16
J08-10FJ	1/2"	7/8 - 14
J10-10FJ	5/8"	7/8 - 14
J12-10FJ	3/4"	7/8 - 14
J12-12FJ	3/4"	1 1/16 - 12
J16-16FJ	1"	1 5/16 - 12



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## BRASS PUSH-ON FITTINGS



**MJ - JIC 37° Male**

Part No.	Hose Bore	Thread
J04-04MJ	1/4"	7/16 - 20
J04-05MJ	1/4"	1/2 - 20
J05-05MJ	5/16"	1/2 - 20
J06-06MJ	3/8"	9/16 - 18



**MA - SAE 45° Male**

Part No.	Hose Bore	Thread
J06-06MA	3/8"	5/8 - 18



**FA - SAE 45° Female Swivel**

Part No.	Hose Bore	Thread
J06-06FA	3/8"	5/8 - 18
J12-12FA	3/4"	1 1/16 - 14



**MIX - SAE Inverted Flare Male Swivel**

Part No.	Hose Bore	Thread
J04-03MIX	1/4"	3/8 - 24
J04-04MIX	1/4"	7/16 - 24
J04-05MIX	1/4"	1/2 - 20
J05-04MIX	5/16"	7/16 - 24
J05-05MIX	5/16"	1/2 - 20
J05-06MIX	5/16"	5/8 - 18
J06-05MIX	3/8"	1/2 - 20
J06-06MIX	3/8"	5/8 - 18
J08-08MIX	1/2"	3/4 - 18



**FIX - SAE Inverted Flare Female Rigid**

Part No.	Hose Bore	Thread
J04-03FIX	1/4"	3/8 - 24
J04-04FIX	1/4"	7/16 - 24
J04-05FIX	1/4"	1/2 - 20
J05-05FIX	5/16"	1/2 - 20
J06-05FIX	3/8"	1/2 - 20
J06-06FIX	3/8"	5/8 - 18
J08-08FIX	1/2"	3/4 - 18



**FML - Female Metric Light Swivel (24° SEAT) - DKOL**

Part No.	Hose Bore	Thread
J04-12FML	1/4"	M12 x 1.5
J04-14FML	1/4"	M14 x 1.5
J04-16FML	1/4"	M16 x 1.5
J06-16FML	3/8"	M16 x 1.5
J06-18FML	3/8"	M18 x 1.5
J08-18FML	1/2"	M18 x 1.5
J08-22FML	1/2"	M22 x 1.5
J10-22FML	5/8"	M22 x 1.5
J10-26FML	5/8"	M26 x 1.5
J12-30FML	3/4"	M30 x 2.0
J16-36FML	1"	M36 x 2.0

\*Plated Steel

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## BRASS PUSH-ON FITTINGS



**FML45 - Female Metric Light Swivel - 45° Elbow (24° Seat) - DKOL**

Part No.	Hose Bore	Thread
J04-12FML45	1/4"	M12 x 1.5
J04-14FML45	1/4"	M14 x 1.5
J04-16FML45	1/4"	M16 x 1.5
J08-18FML45	1/2"	M18 x 1.5
J08-22FML45	1/2"	M22 x 1.5
J10-26FML45	5/8"	M26 x 1.5
J12-30FML45	3/4"	M30 x 2.0
J16-36FML45	1"	M36 x 2.0

\*Plated Steel



**FML90 - Female Metric Light Swivel - 90° Elbow (24° Seat) - DKOL**

Part No.	Hose Bore	Thread
J04-12FML90	1/4"	M12 x 1.5
J04-14FML90	1/4"	M14 x 1.5
J04-16FML90	1/4"	M16 x 1.5
J06-16FML90	3/8"	M16 x 1.5
J06-18FML90	3/8"	M18 x 1.5
J08-22FML90	1/2"	M22 x 1.5
J10-26FML90	5/8"	M26 x 1.5
J12-30FML90	3/4"	M30 x 2.0
J16-36FML90	1"	M36 x 2.0

\*Plated Steel



**HM - Hose Mender**

Part No.	Hose Bore
J04-04HM	1/4"
J05-05HM	5/16"
J06-06HM	3/8"
J08-08HM	1/2"
J10-10HM	5/8"
J12-12HM	3/4"



**SP - Imperial Standpipe**

Part No.	Hose Bore	Thread
J04-03SP	1/4"	3/16
J04-04SP	1/4"	1/4
J04-05SP	1/4"	5/16
J06-06SP	3/8"	3/8
J08-08SP	1/2"	1/2



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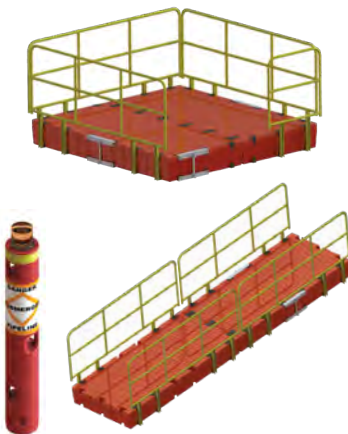


## CABLE, HOSE & PIPE FLOATS

\*Cable, Hose, and Pipe Floats that will accommodate outside diameters of 0.25" to 42".



Part No.	Description
CF2-50	2" Neptune Hose and Cable Float
CF4-100	4" Neptune Hose and Cable Float
PF6-160-R	6" Neptune Hose and Pipe Float
PF8-200-R	8" Neptune Hose and Pipe Float
PF10-250-R	10" Neptune Hose and Pipe Float
PF12-300-R	12" Neptune Hose and Pipe Float



Part No.	Description
<b>FLOATING WALKWAY</b>	
SNAP-WALKWAY	10'x5' Snap Dock Floating Walkway with Handrails
<b>FLOATING PLATFORM</b>	
SNAP-PLATFORM	10'x10' Snap Dock Floating Work Platform with Handrails
<b>REGULATORY BUOY</b>	
PB-9-SL	Neptune Regulatory Buoy with Solar Light

## HOSE PROTECTORS



Part No.	Description
HP-1000-BK	Poly Hose Protector 10" Black
HP-1000-OR	Poly Hose Protector 10" Orange
HP-1200-BK	Poly Hose Protector 12" Black
HP-1200-OR	Poly Hose Protector 12" Orange
HP-1200-YW	Poly Hose Protector 12" Yellow
HP-400-BK	Poly Hose Protector 4" Black
HP-400-OR	Poly Hose Protector 4" Orange
HP-400-YW	Poly Hose Protector 4" Yellow
HP-600-BK	Poly Hose Protector 6" Black
HP-600-OR	Poly Hose Protector 6" Orange
HP-600-YW	Poly Hose Protector 6" Yellow
HP-800-BK	Poly Hose Protector 8" Black
HP-800-OR	Poly Hose Protector 8" Orange
HP-800-YW	Poly Hose Protector 8" Yellow
HP-MIX-OR	Mixed Hose Protector Display Orange

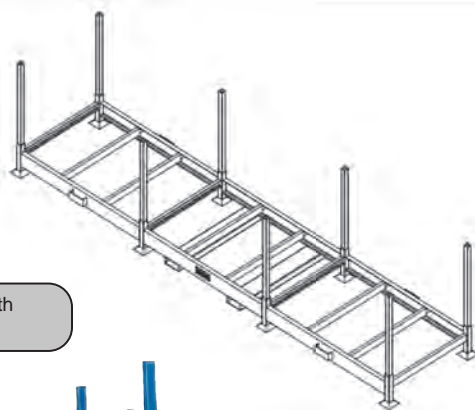
**⚠** WARNING This product can expose you to chemicals, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information visit <https://www.p65warnings.ca.gov/>



## INDUSTRIAL HOSE RACK

### Features:

- 2,500lb capacity
- Ability to stack racks 1 to 2 layers high
- Available with or without casters for easy moving
- 18' long x 4' wide x 3.5' tall
- Removable stake sides allow for easy loading and unloading
- Forklift pockets create a secure lifting point



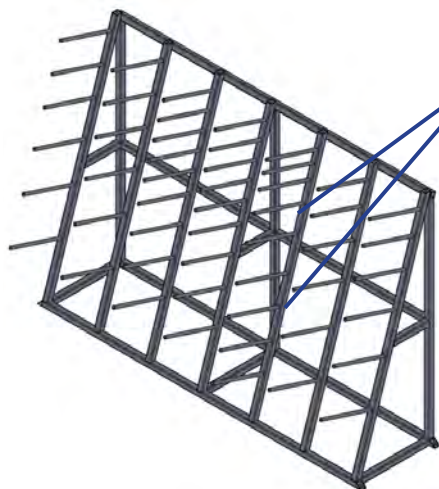
Comes standard with forklift slots.



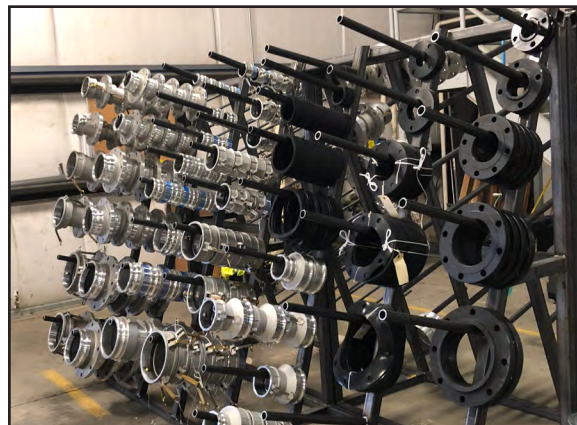
## ADJUSTABLE HOSE ADAPTER & GASKET RACK

### Features:

- 3" Solid Steel Construction
- 10' High x 84" Wide x 24" deep - Standard Size
- Poles are 2" Diameter x 16" Long x 150 Lbs. Capacity
- 2,400 Lbs. Hanging Capacity
- 3,000 Lbs. Lower Shelf Capacity
- Adjustable Up and Down Mounting Brackets - 150 Lbs. Capacity
- Stand Alone, End-to-End or Back-to-Back



Comes standard with 7 cross beams and 20 poles. Additional beams and poles can be purchased separately.



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## HOSE HANDLE CLAMPS

These handles are a ground breaking tool composed of Long Glass Nylon which enhances the thermal properties compared to commonly used materials, such as aluminum. In addition, this lightweight material is stronger and more wear-resistant. From temperatures of -40°C to +50°C (-40°F to +122°F), each handle is designed to battle the most aggressive environments.

This easy-to-use mechanism enables you to clamp onto hoses or pipes effortlessly without damaging the hose or dirtying your hands. The hose handle allows for easier movement in the field and increased efficiency with the capability to move two hoses at a time. Effective in all types of environments, the handle allows you to grip, torque, and release single-handedly through a natural fluid movement.



Part No.	Hose Size	Box Qty
HC-200-H	2"	10
HC-300-H	3"	10
HC-400-H	4"	10
HC-600-H	6"	10

## HOSEBUN™



A hose saddle designed to properly suspend hose. The patented product is used to protect the manufacturer's maximum bend radius and keep your hose from kinking.

HoseBun™ is used for cradling hose within various industrial and commercial sites and applications including: the petrochemical industrial, oil and gas drilling applications, hi-hose refueling stations, overland and offshore shipping and transportation settings, military and aircraft refueling depots, and in the nuclear reactor industry.

**Material:** Urethane  
**Max Temperature:** +93°C (+200°F)

Part No.	Hose Size	Length Inches	Package Weight lbs	Sling Height Inches	Sling Type	Rated Capacity lbs
HB-200	2"	18.00	4.00	7.25	D-Ring	800
HB-300	3"	12.75	4.25	8.50	D-Ring	800
HB-400	4"	11.50	5.00	8.00	D-Ring	800
HB-600	6"	21.50	16.00	22.50	Type 4 Hook Eye	8,000
HB-800	8"	30.50	35.00	18.00	Type 4 Hook Eye	12,000

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# FRACTION CONVERSION CHART

INCHES		MILLIMETERS		INCHES		MILLIMETERS	
$\frac{1}{32}$	$\frac{1}{64}$	.015625	.3969	$\frac{17}{32}$	$\frac{33}{64}$	.515625	13.096
		.03125	.7938			.53125	13.493
	$\frac{3}{64}$	<b>.046875</b>	<b>1.1906</b>		$\frac{35}{64}$	<b>.546875</b>	<b>13.890</b>
$\frac{1}{16}$		.0625	1.5875	$\frac{9}{16}$		.5625	14.287
	$\frac{5}{64}$	<b>.078125</b>	<b>1.9844</b>		$\frac{37}{64}$	<b>.578125</b>	<b>14.684</b>
$\frac{3}{32}$		.09375	2.3813	$\frac{19}{32}$		.59375	15.081
	$\frac{7}{64}$	<b>.109375</b>	<b>2.7781</b>		$\frac{39}{64}$	<b>.609375</b>	<b>15.478</b>
$\frac{1}{8}$		.125	3.1750	$\frac{5}{8}$		.625	15.875
	$\frac{9}{64}$	<b>.140625</b>	<b>3.5719</b>		$\frac{41}{64}$	<b>.640625</b>	<b>16.271</b>
$\frac{5}{32}$		.15625	3.9688	$\frac{21}{32}$		.65625	16.668
	$\frac{11}{64}$	<b>.171875</b>	<b>4.3656</b>		$\frac{43}{64}$	<b>.671875</b>	<b>17.065</b>
$\frac{3}{16}$		.1875	4.7625	$\frac{11}{16}$		.6875	17.462
	$\frac{13}{64}$	<b>.203125</b>	<b>5.1594</b>		$\frac{45}{64}$	<b>.703125</b>	<b>17.859</b>
$\frac{7}{32}$		.21875	5.5563	$\frac{23}{32}$		.71875	18.256
	$\frac{15}{64}$	<b>.234375</b>	<b>5.9531</b>		$\frac{47}{64}$	<b>.734375</b>	<b>18.653</b>
$\frac{1}{4}$		.250	6.3500	$\frac{3}{4}$		.750	19.050
	$\frac{17}{64}$	<b>.265625</b>	<b>6.7469</b>		$\frac{49}{64}$	<b>.765625</b>	<b>19.447</b>
$\frac{9}{32}$		.28125	7.1438	$\frac{25}{32}$		.78125	17.843
	$\frac{19}{64}$	<b>.296875</b>	<b>7.5406</b>		$\frac{51}{64}$	<b>.796875</b>	<b>20.240</b>
$\frac{5}{16}$		.3125	7.9375	$\frac{13}{16}$		.8125	20.6375
	$\frac{21}{64}$	<b>.328125</b>	<b>8.3344</b>		$\frac{53}{64}$	<b>.828125</b>	<b>21.0345</b>
$\frac{11}{32}$		.34375	8.7313	$\frac{27}{32}$		.84375	21.431
	$\frac{23}{64}$	<b>.359375</b>	<b>9.1282</b>		$\frac{55}{64}$	<b>.859375</b>	<b>24.8282</b>
$\frac{3}{8}$		.375	9.5250	$\frac{7}{8}$		.875	22.2251
	$\frac{25}{64}$	<b>.390625</b>	<b>9.9219</b>		$\frac{57}{64}$	<b>.890625</b>	<b>22.6220</b>
$\frac{13}{32}$		.40625	10.3188	$\frac{29}{32}$		.90625	23.0188
	$\frac{27}{64}$	<b>.421875</b>	<b>10.7157</b>		$\frac{59}{64}$	<b>.921875</b>	<b>23.4157</b>
$\frac{7}{16}$		.4375	11.1125	$\frac{15}{16}$		.9375	23.8126
	$\frac{29}{64}$	<b>.453125</b>	<b>11.5094</b>		$\frac{61}{64}$	<b>.953125</b>	<b>24.2095</b>
$\frac{15}{32}$		.46875	11.9063	$\frac{31}{32}$		.96875	24.6063
	$\frac{31}{64}$	<b>.484375</b>	<b>12.3032</b>		$\frac{63}{64}$	<b>.984375</b>	<b>25.0032</b>
$\frac{1}{2}$		.500	12.7001	$\frac{1}{1}$		1.000	25.4001



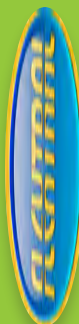


Abbreviation	System Name	Compatibility	Seal Method
<b>BSPP</b>	British Standard Pipe Parallel	Male BSPP with Female BSPP	Washer
		Female BSPP with Male BSPP	Washer
		Female BSPP with Male BSPP	Washer
<b>BSPT<sub>r</sub></b>	British Standard Pipe Taper	Male BSPT <sub>r</sub> with Female BSPT <sub>r</sub>	Thread
		Male BSPT <sub>r</sub> with Female BSPP	Washer
		Female BSPT <sub>r</sub> with Male BSPT <sub>r</sub>	Thread
		<i>Female BSPT<sub>r</sub> not compatible with Male BSPP</i>	
<b>CHT</b>	American Standard Fire Hose Thread (1" National Hose Thread is Chemical Hose Thread, also known as Booster Hose Thread)	1" Male NH (NST) with 1" Female NH (NST)	Washer
		1" Female NH (NST) with 1" Male NH (NST)	Washer
		1" Thread us used on both 3/4" hose & 1" hose	Not Compatible
<b>GHT</b>	Garden Hose Thread	Male GHT with Female GHT	Washer
		Female GHT with Male GHT	Washer
		Thread is same for all size hose	Not Compatible
<b>IPS</b>	Iron Pipe Straight Thread	Generic name for Straight Pipe Thread <i>See NPSH for Compatibility</i>	Washer
<b>IPT</b>	Iron Pipe Thread	Generic name for All Pipe Thread	More Information Required
<b>JIC</b>	Joint Industrial Committee	Used with other mating JIC Threads	Mechanical
<b>NH or NST</b>	American Standard Fire Hose Coupling Thread (National Hose thread also known as National Standard Thread)	Male NH (NST) with Female NH (NST)	Washer
		Female NH (NST) with Male NH (NST) thread pitch and diameters of fire threads may vary according to local and municipal regulations <i>Not Compatible with other systems</i>	Washer
<b>NPT</b>	American Standard Taper Pipe Thread (National Pipe Tapered)	Male NPT with Female NPT	Thread
		Male NPT with Female NPTF	Thread
		Male NPT with Female NPSM	Washer
		Male NPT with Female NPSH	Washer
		Female NPT with Male NPT	Thread
		Female NPT with Male NPTF <i>Female NPT Not Compatible with Male NPSM or Male NPSH</i>	Thread
<b>NPTF</b>	American Standard Taper Pipe Fuel Dryseal Thread (National Pipe Tapered Dryseal)	Male NPTF with Female NPTF	Thread
		Male NPTF with Female NPT	Thread
		Male NPTF with Female NPSM	Washer
		Male NPTF with Female NPSH	Washer
		Female NPTF with Male NPTF	Thread
		Female NPTF with Male NPT	Thread
		Female NPTF with Male NPSM or NPSH <i>NPTF with NPTF threads do not require sealant for the initial use, after that, sealant is required</i>	Not Compatible
<b>NPSH</b>	American Standard Straight Pipe for Hose Couplings (National Pipe Straight Hose)	Male NPSH with Female NPSH	Washer
		Female NPSH with Male NPSH	Washer
		Female NPSH with Male NPT	Washer
		Female NPSH with Male NPTF	Washer
		Female NPSH with Male NPSM	Washer
<b>NPSM</b>	American Standard Straight Mechanical Joints (National Pipe Straight Mechanical)	Male NPSM with Female NPSM	Seal can be either mechanical or washer. Mating fittings must be of same type.
		Male NPSM with Female NPSH	
		Female NPSM with Male NPSM	
		Female NPSM with Male NPT	
		Female NPSM with Male NPTF	
<b>SIPT</b>	Straight Iron Pipe Thread	Generic name for Straight Pipe Thread	Washer
<b>TIPT</b>	Tapered Iron Pipe Thread	Generic name for Tapered Pipe Thread	Thread
<b>NYFD</b>	NYFD Fire Department	Straight thread used in New York City	Washer
<b>Chicago</b>	Chicago Fire Department	Straight thread used in Chicago	Washer

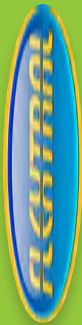
## CHEMICAL GUIDES

Description	Page
Introduction	240
Names and General Properties of Flextral Hose Materials	241
Hose and Chemical Table	242-268
PVC Temperature / Pressure Chart	269

Due to continual product improvements, Flextral reserves the right to alter specifications without prior notice.







## CHEMICAL GUIDES INTRODUCTION

The Chemical Guides in this section are offered as a general indication of the compatibility of the various compounds incorporated in Flextral hose with the chemicals, fluids and media listed. The basis for the ratings includes actual service experience, the advice of various polymer suppliers, and the considered opinion of our chemists. When in doubt, a sample of the compound should always be tested with the particular chemical it is to handle.

Some of the variables that affect the resistance of a compound to a chemical attack are:

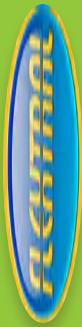
- 1. Temperature of the Media Transmitted:** Higher temperatures increase the affect of chemicals on compounds. The amount of increase depends upon the polymer and the chemical. A compound quite suitable at room temperature might fail very quickly at higher temperatures. Working pressures in this catalog are recommended in accordance with ARPM design safety factors at ambient temperatures. Do not operate outside hose temperature limits. Even within hose temperature limits, end fittings and hose size can affect performance at higher temperatures.
- 2. Service Conditions:** A rubber compound usually swells when exposed to a chemical. Within a given percent of swell, a hose tube may function satisfactorily if the hose is in a static condition, but may fail quickly if the hose is subject to flexing.
- 3. The Grade or Blend of the Rubber Compound:** Basic polymers are sometimes mixed or blended to enhance a particular property for a specific service. As an example, the nitrile used as the tube material for Flextral PE08 Petro-Flex tank truck hose varies in its makeup from the nitrile used in the tube of PE52 Dock-Flex tanker transfer hose. Consequently, the reaction to a particular chemical may therefore be somewhat different. When in doubt, a sample of the compound should always be tested with the particular chemical it is going to handle.



## NAMES & GENERAL PROPERTIES OF FLEXTRAL HOSE MATERIALS

Refer to the guides on the following pages for specific applications.

Common Name	ASTM Designation D1418-64	Composition	General Properties	Primary Hose Elements
Butyl / Chlorobutyl	IIR	Isobutene-Isoprene	Very good weathering resistance, low permeability to air. Good physical properties. Poor resistance to petroleum based fluids.	Tube / Cover
Chlorinated Polyethylene (CPE)	CM	Chloropolyethylene	Good long term resistance to UV and weathering. Good oil and chemical resistance. Excellent flame resistance. Good low temperature impact resistance	Tube
Cross Linked Polyethylene(XLPE)	XPE	Cross Linked Polyethylene	Excellent resistance to most solvents, oils and chemicals. Do not confuse with chemical properties of standard polyethylene.	Tube
EPDM	EPDM	Ethylene Propylene Diene	Good general purpose polymer. Excellent heat ozone, and weather resistance. Not oil resistant.	Tube / Cover
Epichlorohydrin	ECO	Ethylene Oxide Chloromethy	Excellent oil and ozone resistance. Fair flame resistance and low permeability to gases. Good low temperature properties.	Tube / Cover
Ethyl Vinyl Acetate (EVA)		Ethylene Vinyl Acetate	Good abrasion and chemical resistance. Lightweight.	Tube / Cover
Hypalon®	CSM	Chlorosulfonated Polyethylene	Excellent ozone, weathering and acid resistance. Good abrasion and heat resistance. Can be compounded for good oil resistance	Tube / Cover
Modified XLPE (MX-LPE)		Proprietary	Excellent chemical resistance with good heat properties.	Tube
Natural Rubber	NR	Isoprene	Excellent physical properties, including abrasion resistance. Not oil resistant.	Tube
Neoprene	CR	Chloroprene	Excellent weathering resistance. Good oil resistance. Good physical properties.	Tube / Cover
Nitrile /Buna-N	NBR	Nitrile-Butadiene	Excellent oil resistance. Good physical properties	Tube / Cover
Nylon		Nylon	Excellent chemical resistance. Good temperature resistance.	Tube
Poly Vinyl Chloride (PVC)		Poly Vinyl Chloride	Good abrasion, chemical and weathering resistance. Lightweight. Poor oil and temperature resistance.	Tube / Cover, Tubing
Poly Vinyl Chloride / Polyurethane (PVC/PU)		Poly Vinyl Chloride/ Polyurethane Blend	Good abrasion, chemical and weathering resistance.	Tube / Cover
Polyurethane (PU)	AU	Polyurethane	Good abrasion, chemical and weathering resistance.	Tube / Cover
SBR	SBR	Styrene-Butadiene	Good physical properties, including abrasion resistance. Not oil resistant. Poor weathering and ozone resistance.	Tube / Cover
Santoprene® (TPV)		Thermoplastic Vulcanizate	Excellent chemical and ozone resistance. Good flexibility. Lightweight.	Tube, Tubing
Teflon®	FEP / PTFE	Fluorinated Ethylene Propylene / Polytetra-Flouroethylene	Excellent chemical, solvent, and heat resistance, inert to most materials. Smooth anti-adhesive surface – easily cleaned	Tube
Ultra-High Molecular Weight Polyethylene (UNMWPE)	UHMW	Ultra-High Molecular Weight Polyethylene	Excellent chemical and heat resistance.	Tube
Viton®	FKM	Fluorocarbon Rubber	Excellent high temperature resistance, particularly in air or oil. Very good chemical resistance.	Tube / Cover



**HOSE & CHEMICAL TABLE**

Refer to the guides on the following pages for specific applications.

WARNING! The following data is based on tests and believed to be reliable; however, the tabulation should be used as a guide ONLY, since it does not take into consideration all variables, such as elevated temperatures, fluid contamination, concentration, etc., that may be encountered in actual use. All critical applications should be tested. Refer to the Safety & Technical Information section of this catalog for safety, handling and use.

\*\*\*Refer to the PVC Temperature/Pressure chart on page 269.

Thermoplastic hose and tubing achieve their optimum physical properties at room temperature, +68°F (+20°C). As thermoplastic materials are exposed to increased ambient temperatures, they soften and their physical properties change. For hose and tubing, heat sharply reduces the available working pressure and coupling retention. In all cases, test the product in a controlled, secure and safe environment, and consider all operating conditions prior to use.

**NOTES:**

- Data for PVC/thermoplastic materials based on +68°F unless otherwise noted.
- Data for other materials based on +70°F unless otherwise noted.

**Key: E = Excellent • G = Good • C = Conditional • Blank = No Data • X = Not Recommended**

Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Acetal		C	G	C	G		E	X	G	C	X					C		E	E
Acetaldehyde		X	E	X	E	G	E	X		X	X	E	X	X	X	X	G	G	E
Acetamide		G	E	G	E		E	G	E	C	E					X		E	E
Acetate Solvents		X	C	X	E	C	E	X	G	C	X		C	X	X	X		E	E
Acetic Acid, 10%	E	E	E	G	E	E	E	E		G	G	X	X	E	G	G	E	E	E
Acetic Acid, 30%		G	G	C	E	E	E	C	G	X	X			G	G	X		E	E
Acetic Acid, 50%	E	E	G	C	E	C	E	G		X	C	X	X	G	G	G	C	E	G
Acetic Acid, 80%						C							X	C	C				
Acetic Acid, Glacial	E	C	G	C	G	X	E	X		X	X	X	X	C	C	C	G	E	E
Acetic Acid, Vapors						G							X	G	G				
Acetic Anhydride	E	E	G	G	G	C	E	X		C	X	X	X	X	X	X	E	G	E
Acetic Ester		X	G	X	E		E	X	G	X	X					X		E	E
Acetic Ether		C	G	X	E		E	X	G	X	X					X		E	E
Acetic Oxide		E	G		G		E	X		X			G				G		E
Acetone	G	X	E	X	E	C	E	X		X	X	E	X	X	X	C	G	E	C
Acetone Cyanohydrin		C	E	G	E		E	X		C	X		X			E	E	G	E
Acetonitrile		G	E	E	E		E	X		G	X	E					X		
Acetophenone		X	G	X	E		E	X		X	X		X			X	G	X	X
Acetyl Acetone	G	X	E	X	E		E	X		X	X		X			X	G	E	E
Acetyl Chloride	E	X	X	X	C		E	G		X	X	X	X			X	G	G	G
Acetyl Oxide	E	E	G	G	G		E	X		C	X		X			X	E	E	E
Acetylene	G	C	E	E	E	X	E	E		G	E	E	G	C	C	C	C	E	E
Acetylene Dichloride		X	C	X	C		E	G		X	X	E						X	
Acetylene Tetrachloride		X	X	X	X		E	E		X	X		X			X	X		
Acrolein		G	E	C	E		E	X		G	C		X			C	C	X	E
Acrylic Acid	E	G	X	X	X		E	X		X	X		X			X			X
Acrylonitrile	E	C	X	X	E		E	X		C	X	E	X	C	C	C	G	C	C
Di(2Ethylhexyl) Adipate		X	E	X	G		E	C		X	X								
Adipic Acid		G	X	E	E	E	E	E		E	E		E	G	G	E	G		E
Air		E	E	E	E		E	E	E	E	E					E		E	E
Air, +300°F	G	G	G	G	G		E	E		X	G		G			X	E	X	
Alcohol, Aliphatic		E	E	E	E		G	C	E	E	E					G		E	E
Alcohol, Aromatic		X	X	C	X		E	E	G	C	C					X		E	E
Alk-Tri		X	X	X	X		E	E		X	X		X			X	X		E
Allyl Alcohol		E	E	E	E	E	E	G		E	E	C	X	X	X	G	G	E	E
Allyl Bromide		X	X	X	X		E	G		X	X					X		G	G

\*\*\*Refer to the PVC Temperature/Pressure Chart on page 269

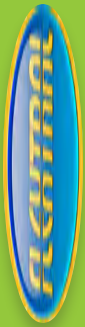
# HOSE & CHEMICAL TABLE

**Key: E = Excellent • G = Good • C = Conditional • Blank = No Data • X = Not Recommended**

Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Allyl Chloride	G	X	X	X	X	C	E	G		X	G	G	X	X	X	G		E	G
Alum	E	E	E	E	E	E	E	E	E	E	E	G	G	E	E	G	E	E	E
Alum, Papermakers							E	E										G	
Aluminum Acetate	E	G	E	C	E		E	E	E	C	C		X			G	E	E	E
Aluminum Chloride	C	E	E	E	E	G	E	E	E	E	E	X	G	E	E	E		E	E
Aluminum Fluoride	X	E	E	E	E	G	E	E		G	E	G	C	G	G	E	E	E	E
Aluminum Formate		X	G	E	E		E	X		X	X		X			E		E	
Aluminum Hydroxide		E	E	E	E	G	E	E		E	E	G	G	E	E	G	E	E	
Aluminum Nitrate						E							C	E	E				
Aluminum Nitrate (AQ)	E	E	E	E	E		E	E		E	E		C			E	E	E	E
Aluminum Oxychloride						G								E	E				
Aluminum Phosphate		E	E	E	E		E	E	E	E	E					E		E	E
Aluminum Sulfate	E	E	E	E	E	E	E	E	E	E	E	E	G	E	E	E	E	E	E
Alums, NH3-CR-K	G	E	E	E	E		E	E	E	E	E	X	G			E	E	E	E
Amines, Mixed		X	G	G	G			X		G	X		X			C		E	
Amino Xylene	X	X	G	X	E		E	X		X	X		X			X	G		
Aminobenzene	G	X	G	X	G		E	E		X	X	C	X			X	G		
1-Aminobutane		C	X	X	C		E	X		X	C		X			X			
Aminodimethylbenzene	C	C	G	X	X		E	X		X	X					X			
Aminoethane		C	G	X	E		E	X		C	X		X			C			
2-Aminoethanol		G	E	G	G		E	X		G	X		C			X			
1-Aminopentane	C	X	G	E	E		E	X		G	C		C			G	C		
O-Aminotoluene	G																		
Ammonia (AQ)						E						E	X	C	C			E	C
Ammonia Anhydrous												G						E	E
Ammonia Gas												C						E	
Ammonia Gas, Dry						E							X	C	C				
Ammonia Liquid		E	E	E	E	E	E	E	E	G	G		X	X	X	G		E	E
Ammonia Water		G	G	G	E		E	G	E	G	C					G		E	E
Ammonium Carbonate		E	E	E	E	E	E	E	E	E	C	G	E	E	E	E		E	E
Ammonium Chloride	G	E	E	E	E	E	E	E	E	E	E		G	E	E	E	E	E	E
Ammonium Fluoride, 25%						G							C	X	X				
Ammonium Hydroxide	E	E	E	E	E		E	E		G	E	G	X				E	E	E
Ammonium Hydroxide, 28%						E							C	C					
Ammonium Metaphosphate		E	E	E	E	E	E	E	E	E	E		G	E	E	E		E	E
Ammonium Nitrate	G	E	E	E	E	E	E	E	E	E	E	G	G	E	E	E	E	E	E
Ammonium Persulfate		E	E	E	G	E	E	E	E	E	X		G	E	E	X		E	E
Ammonium Phosphate		E	E	E	E	E	E	E	E	E	E		G	G	G	E		E	E
Ammonium Phosphate, Dibasic	E	E	E	E	E		E	E		E	E	C				E	E	E	E
Ammonium Phosphate, Neutral						E							G	E	E				
Ammonium Sulfate	E	E	E	E	E	E	E	E	E	E	E	G	E	E	E	G		E	E
Ammonium Sulfide		E	E	E	E	E	E	E	E	E	E		E	E	E	E		E	E
Ammonium Sulphite		E	E	E	E		E	E		E	E		X			E			E
Ammonium Thiocyanate		E	E	E	E	E	E	E	E	E	E		G	E	E	E		E	E
Ammonium Thiosulphate		E	E	E	E		E	E		E	E	E	X			E	E		E
Amyl Acetate	X	X	C	X	E	X	E	X		X	X	G	X	X	X	X	G	E	C
Amyl Acetone		X	G	X	G		E	X		X	X					X			E
Amyl Alcohol	E	E	E	E	E	G	E	E		E	E	E	X	C	C	G	E	E	E
Amyl Amine		C	G	C	C		E	X		C	C					G			
Amyl Borate		C	E	E	E		E	E	C	E	E					E		E	E
Amyl Bromide		X	X	X	C		E	G		X	X								
Amyl Chloride	C	X	X	X	X	X	E	E		X	X	E	C	X	X	X	X	X	X
Amyl Chloronaphthalene		E	E	E	E		E	E	C	E	E					E		E	E

\*\*\*Refer to the PVC Temperature/Pressure Chart on page 269





## HOSE & CHEMICAL TABLE

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Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Amyl Ether		C	X	X	X		E			X	X								
Amyl Napthalene		E	E	E	E		E	E	C	E	E					E		E	E
Amyl Oleate		E	G	E	G		E	C	G	E	E					E		E	E
Amyl Phenol		E	E	E	E		E	E	C	E	E					E		E	E
Anethol	X	X	X	X	X		E	G		X	X	G				X		G	G
Aniline	X	X	E	X	G	X	E	G		X	X	C	X	X	X	X	G	E	E
Aniline Chlorohydrate						X							X	X	X				
Aniline Dyes	X	G	G	C	G		E	G		G	X	X	X			G	G	E	E
Aniline Hydrochloride		X	G	X	G	X	E	G	E	G	G		X	X	X	C		E	E
Aniline Oil	G	X	G	X	C		E	C		X	X		X			X			
Animal Fats		C	C	C	G		E	E		X	E	E	C			X	C	E	E
Animal Grease		X	X	C	C		E	E	E	X	E					X		E	E
Animal Oils		X	C	X	C	C	E	E	E	X	E		G	C	C	X		E	E
Ansul Ether		X	X	X	C		E	X	G	X	X					X		E	E
Antraquinone						E								E	E				
Antraquinonesulfonic Acid						E							X	E	E				
Antifreeze		E	E	E	E		E	E	E	E	E					E		E	E
Antimony Chlorides		G	E	X	E		E	E			G	C	E						E
Antimony Pentachloride		X	X	X	X		E	E	E	X	G					X		G	G
Antimony Trichloride						E							E	E	E				
Apple Juice or Sauce														E					
Aqua Regia	G	X	X	X	C	X	E	E		X	X	X	X	C	C	X	X	G	X
Argon		X	G	G	E		E	E		X	E	E	E			E		E	E
Aromatic Hydrocarbons		X	X	X	X		E	E		X	X			X		X			
Arquad		E	E	E	E		E	E	E	E	E					E		E	E
Arsenic Acid	E	E	E	E	E		E	E		E	E	E	X			E	E	E	E
Arsenic Acid, 80%						G							X	E	E				
Arsenic Chloride		X	X	E	X		E	X		X	C					X		X	X
Arsenic Trichloride		X	X	E	X		E	X		X	E					X		X	X
Arylsulfonic Acid													X	C	C				
Asphalt	G	X	X	C	X	X	E	E		X	G	E	G	C	C	X	G	E	X
ASTM Fuel A	E	G	X	G	X		E	E		X	E	E	G	C	C	X	X	G	G
ASTM Fuel B	G	G	X	X	X		E	E		X	X	E	G	X	X	X	X	G	G
ASTM Fuel C	C	X	X	X	X		E	E		X	G	E	X	X	X	X	X	G	G
ASTM Oil #1		G	X	E	X		E	E		X	E	E	E	C	C	X	X	E	E
ASTM Oil #2		C	X	E	X		E	E		X	E					X			
ASTM Oil #3		C	X	G	X		E	E		X	E		X	C	C	X			
ASTM Oil #4		X	X	X	X			E		X	G		X			X		E	E
Automatic Transmission Fluid		C	X	G	X		E	E		X	E	G	G			X	X	E	E
Aviation Gasoline		X	X	X	X		E	E		X	E		X			X		E	E
Banana Oil	X	C	X	X	E		E	X		X	X	G	X			X	G	E	X
Barium Carbonate		E	E	E	E	E	E	E	E	E	E		E	E	E	E		E	E
Barium Chloride	G	E	E	E	E	E	E	E	E	E	E	G	E	E	E	E		E	E
Barium Hydroxide	G	E	E	E	E	E	E	E	E	E	E	G	E	E	E	E		E	E
Barium Sulfate		E	E	E	E	E	E	E	E	E	E		E	E	E	E		E	E
Barium Sulfide		E	E	E	E	E	E	E	E	E	E		E	E	E	G		E	E
Beer		E	E	G	E		E	E		E	E	E	G	E		E	E	E	X
Beet Sugar Liquors	G	E	E	G	E	E	E	E		E	E	G	X	E		E	E	E	E
Benzal Chloride			G				E				X	E						E	E
Benzaldehyde	C	X	G	X	E	C	E	X		X	X	E	X	X	X	X	X	E	E
Benzene	C	X	X	X	X	X	E	G		X	X	G	X	X	C	X	X	G	E
Benzene Carboxylic Acid	G	X	E	E	X		E	E		X	X		X			X	E		
Benzene Sulphonic Acid		G	X	G	X		E	E	E	X	X					X		E	E

\*\*\*Refer to the PVC Temperature/Pressure Chart on page 269



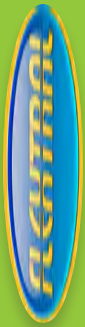
# HOSE & CHEMICAL TABLE

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Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Benzene		X	X	G	X		E	E		X	E	G	C			X	G		E
Benzene Solvent		C	X	X	X		E	E		X	E					X			
Benzoic Acid		X	X	G	X	G	E	E	G	X	X	E	X	G	G	X	E	E	E
Benzoic Aldehyde		X	G	X	E		E	X	E	X	X					X		E	E
Benzol	C	X	X	X	X	X	E	G		X	X	G	X	X	C	X	X	G	E
Benzotrichloride		X	X	X	E		G	E		X	X					X		G	G
Benzyl Acetate		G	E	E	E		E	X		X	X		X			E		E	E
Benzyl Alcohol	E	G	G	G	G		E	E		X	X	C	X			X	X	E	E
Benzyl Chloride	X	X	X	X	X		E	E		X	X		X			X	X	E	E
Benzyl Ether		X	G	X	C		E	X		X	X		G			X			
Bismuth Carbonate						E							E	E	E				
Black Liquor						E								E	E				
Black Sulfate Liquor	C	G	G	G	G		E	E		G	G	C	X			G	E	E	
Blast Furnace Gas		C	C	E	C		E	E	E	C	C					C		E	E
Bleach Solutions		G	G	X	G		E	G	E	X	X	C	X			X		G	G
Bleach, 12.5% Active CL						G							C	G	G				
Borax Solution	C	E	E	E	E		E	E		E	E	G	E			E	E	E	E
Bordeaux Mixture		E	E	E	E		E	E	E	G	E					G		E	E
Boric Acid	X	E	E	E	E	E	E	E		E	E	G	E	E	E	E	E	E	E
Boron Trifluoride						E							E	E	E				
Brake Fluid DOT #3	E	G	E	C	E		E	X		X	X	E	X	X	X	E	G		
Brine	G	E	E	E	E	E	E	E		E	E	G	G	E	E	E	E	E	E
Bromacil					E														
Bromic Acid						G							X	E	E				
Bromine		C	X	X	X		E	E	G	X	X					X		X	G
Bromine Water		E	C	G	C	X	E	E		X	C		X	X	X	X		E	E
Bromine, Liquid						X							X	X	X				
Bromobenzene	X	X	X	X	X		E	E		X	X		X			X		C	C
1-Bromobutane		X	X				E	G		X	X								
Bromochloromethane	X	X	X	X	G		E	C		X	X								
Bromoethane		X	X	X	X		E	E		C	G		X			X			
3-Bromopropene		X	X	X			E	G		X	X								
Bromotoluene	X	X	X				E	G		X						X			X
Bugdioxane																			E
Bunker Oil		X	X	X	X		E	E		X	E		G			X		E	E
Butadiene		X	X	X	X	X	E	G		X	X		X	C	C	X		E	E
N-Butanal		C	G	C	G		E	X		X	X		C						
Butane		X	X	C	X	X	E	E		X	E	E	X	C	C	X		E	E
Butanoic Acid		C			G		E	G											
Butanol (Butyl Alcohol)	G	E	G	E	G		E	E		E	E	G	X			E	G	E	E
Butanol, Primary						G							C	X	X				
Butanol, Secondary						G							C	X	X				
Butanone	G	X	E		E		G				X	G	X				X	E	E
Butoxyethanol		X	E	X	E		E			X	C		E						
Butter		E	E	G	E			E		C	E			C		C			
Butyl Acetate	C	X	X	X	X	X	X	X		X	X	G	X	X	C	X		E	E
Butyl Acrylate		X	X	X	X		E	X		X	X							G	G
Butyl Alcohol (Butanol)	G	E	G	E	G	E	E	E		E	E	G	C	C	C	E	G	E	E
Butyl Aldehyde		C	G	C	G		E	X					C				G	E	E
Butyl Amine		C	C	X	C		E	X	E	G	C					C		E	E
N-Butylamine		X	X	X	C		E	X		X	X		X			X			
T-Butyl Amine		X			G														
Butyl Benzene		X	X	X	X			E		X	X					X		E	E

\*\*\*Refer to the PVC Temperature/Pressure Chart on page 269





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Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
N-Butylbenzene		X					E	E		X	X								E
Butyl Benzyl Phthalate		X	E				E	C		X						X		E	E
Butyl Bromide		X	X	X	X			G		X	X					X		G	G
N-Butylbromide		X	X				E	G		X	X								G
Butyl Butyrate		X	C	X	G			C		X	X					X		G	G
N-Butylbutyrate		X	E	X	E		E	E		X	X					X			
N-Butylcarbinol	E	E	E	E	E		E	E		E	G	E	X			E	E		
Butyl Carbitol		C	E	C	E		E	G		X	C					X		E	G
Butyl Cellosolve		X	E	X	G		E	X		X	C			X	X	X	E	E	E
Butyl Chloride		X	C				E	E		X								C	G
Butyl Ether		X	X	X	X		E	X		X	X		G			X		E	E
Butyl Ether Acetaldehyde		X	G				E	X		X		X						E	E
Butyl Ethyl Acetaldehyde		X	C	X	X			X		X	X					X		E	E
Butyl Ethyl Ether		X	X				E			X	G							E	E
Butyl Oleate		X	G	X	G		E	E		X	X					X			
Butyl Phenol						X								C	C				
Butyl Phthalate		X	G		E		E	C		X						X			E
Butyl Stearate		X	X	X	X		E	E		X	G		G			X		E	E
Butylene		X	X	C	X		E	E		X	E	G	C	C	C	X			
Butyraldehyde		X	G	X	C		E	X	G	X	X		X			X		E	E
Butyric Acid		C	G	X	G		E	G		X	X		G			X		E	E
Butyric Acid, 20%						X							C	C	C				
Butyric Anhydride		G	C				E			C	C								E
Butyraldehyde							E	X	G									E	E
Cadmium Acetate		E	E				E			X								E	E
Calcium Acetate		C	E	G			E	X		E	G		X			X		E	E
Calcium Aluminate		E	E				E	E		E	E								E
Calcium Bichromate		C	E				E												G
Calcium Bisulfate		E	G	E	G		E	E	E	C	E					C		E	E
Calcium Bisulfide				C	X		E	E			E	G	C			G			
Calcium Bisulfite		E	E	E	E	E	E	E	E	E	E		E	E	E	E		E	E
Calcium Carbonate		E	E	E	E	E	E	E	E	E	E		E	E	E	E		E	E
Calcium Chlorate						E							G	E	E				
Calcium Chloride	G	E	E	E	E	E	E	E		E	E	E	E	E	E	E		E	E
Calcium Hydroxide	G	G	E	E	E	E	E	E		E	E	E	E	E	E	E		E	E
Calcium Hypochlorite	G	E	E	C	E	G	E	E		X	X	X	X	E	E	X		C	C
Calcium Nitrate		E	E	E	E	E	E	E		E	E	E	X	E	E	E		E	E
Calcium Sulfate		E	E	E	E	E	E	E	E	E	E		E	E	E	E		E	E
Calcium Sulfide	X	E	E	E	E		E	E		X	E	E	E			X		E	E
Calcium Sulfite		E	E	E	E		E	E	E	E	E					E		E	E
Caliche Liquor		E	E	E	E		E	E	E	E	E					E		E	E
Cane Sugar Liquors		E	E	E	E	G	E	E	E	E	E			E		E		E	E
Caprylic Acid		G	C				E			C	C							E	E
Carbamide		E	G	G			E			E	G								
Carbitol		G	E	C	G		E	G		X	G	E	X			G		E	E
Carbitol Acetate		X	G	X	G			X		X	X					X		E	E
Carbolic Acid	G	X	G	X	X		E	E		X	X	X	X			X	X	E	E
Carbon Bisulfide		X	X	X	X	X	E	E		X	X			X	X	X			
Carbon Dioxide		G	G	G	G		E	G		G	E	E	E			G		E	E
Carbon Dioxide (AQ)						E							E	E	E				
Carbon Dioxide Gas, Wet						E							E	E	E				
Carbon Disulfide		X	X	X	X		E	X		X	X	X	X			X		E	C
Carbon Monoxide	G	E	E	E	E	G	E	E		C	E	E	G	E	E	G	E	E	E

\*\*\*Refer to the PVC Temperature/Pressure Chart on page 269

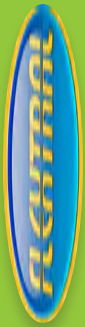
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Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Carbon Tetrachloride	C	X	X	X	X	X	E	E		X	C	X	X	X	C	X	X	G	E
Carbon Tetrafluoride		X	X	X	X		E			X	C					X		C	C
Carbonic Acid	X	E	E	G	E	G	E	G		E	G	G	E	C	G	G	X		E
Casein						E							E	E	E				
Castor Oil	G	E	G	E	G	C	E	E		E	E	G	G	E	E	E	C	E	E
Catsup														E					
Caustic Potash		E	E	G	E	C	E	C	E	E	E		C	E	E	G		E	E
Caustic Soda			E	E	E	G	E	G				G	C	E	E		E		
Cellosolve		G	E	X	E	C	E	C	E	G	X		G	C	G	G		E	E
Cellosolve Acetate		X	G	X	G		E	X		X	X	G	X			X		E	E
Cellugard		X	E	E	E		E	E		E	E	G	E			E			
Cellulube		X	G	X	E			C		C	X					X		E	E
Cetylic Acid	G	C	G	G	G		E	E		E	E	C	E			G	E		
China Wood Oil	C	E	X	E	X		E	E		X	E	G	C			X			
Chloroacetic Acid						X							X	E	E				
Chloral Hydrate						C							G	E	E				
Chlordane		C	X	C	X			E		X	G	G	C			X			
Chloric Acid, 20%													X	E	E				
Chlorinated Hydrocarbons		X	X	X	X	X	E	E		X	X		X	X	X	X			
Chlorinated Solvents	X	X	X	X	X		E	E		X	X	X	X			X		X	G
Chlorine Dioxide		C	X	X	X			E		X	X					X		G	G
Chlorine Gas		X	X	X	X		E	E		X	X					X			
Chlorine Gas, Dry						X							X	G	G				
Chlorine Gas, Moist						X							X	C	C				
Chlorine Water Solutions		X	X	X	X		E	C	E	X	X					X		G	E
Chlorine Water, 2%						G							C	G	G				
Chlorine Water, Saturated						E								C	C				
Chloroacetic Acid		G	G	X	G		E	G		X	X	X	X			X	X	E	E
Chloroacetone		X	X	C	E		E	X		X	X		X			X		E	E
Chlorobenzene						X	E	E	G				X	X	X			G	G
Chlorobenzene, Mono, Di, Tri		X	X	X	X		E	E	G	X	X	E	X			X	X	C	E
Chlorobutadiene		X	X	X	X			E		X	X					X		G	G
Chlorobutane		X	C				E	E		X	X		C					G	G
Chloroethylbenzene	X	X	X		X		E	E		X			G			X		E	E
Chloroform	X	X	X	X	X	X	E	G		X	X	X	X	X	X	X	X	E	C
Chloropentane		X	C				E	E		X						X		E	E
Chlorophenol		X	X	C	X		E	E	G	X	X					X		E	E
2-Chlorophenol	G	X	X	X	X		E	E		X	X	X	X			X	X		G
2-Chloropropane		X	X	X	X		E	E		X	X	X	X			X	X		E
Chloropropanone		X	C	X	C		E	X		X	X					X			
3-Chloropropene		X	C	X	X		E	G		X	G					E			
Chlorosulfonic Acid	X	X	X	X	X		E	X		X	X	X	X			X	X	X	X
Chlorothene		X	X	X	X		E	E	E	X	X					X		G	G
Chlorotoluene		X	X	X	X		E	E		X	X	E	X			X		G	G
Chlorox		G	G	G	G		E	E		X	G	X	X			X		E	G
Chlorsulfonic Acid						X							X	C	C				
Chrome Alum						E							E	E	E				
Chrome Plating Solutions		X	X	X	X					X	X					X			
Chromic Acid	X	X	G	X	X		E	E		X	X	X	X			X	X	X	E
Chromic Acid, 50%						C							X	C	C				
Chromium Trioxide	X	X	G	X	X		E	E		X	X	X	X			X	X		
Cider						E								E					
Cinnamene		X	X	X	X		E	G		X	X		C			X			

\*\*\*Refer to the PVC Temperature/Pressure Chart on page 269





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Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Citric Acid	X	E	E	E	E	E	E	C		E	E	G	E	E	E	E	E	E	E
Coal Oil		C	X	G	X		E	E		X	E	E	C				X	E	C
Coal Tar		X	X	C	X	X	E	E		X	G		C	X	X	X	X	E	E
Coal Tar Naphtha		X	X		X		E	E		X	X		X			X			E
Cobalt Chloride		E	E	E	E			E		E	E					E		E	E
Coconut Oil		C	G	C	G	C	E	E		X	E		C	G	E	X		E	E
Cod Liver Oil		G	E	G	E		E	E	E	X	E					X		E	E
Coke Oven Gas		X	X	X	X		C	E		X	X	C	X			X			E
Coolanol		G	X	G	X			E		X	E		X			X			
Copper Arsenate		E	E	E	E		E	E	E	E	E					E		E	E
Copper Chloride	X	G	E	G	E	E	E	E		G	E	X	G	E	E	E		E	E
Copper Cyanide		G	E	E	E	E	E	E		E	E	X	E	E	E	E		E	E
Copper Fluoride, 2%						E							E	E	E				
Copper Hydrate		G	E				E	C		C	G							E	
Copper Hydroxide		G	E				E	C		C	G					G			E
Copper Nitrate		E	E	E	E					E	E					E			
Copper Nitrate						E	E	E	E				E	E	E			E	E
Copper Sulfate	X	E	E	E	E	E	E	E		G	E	G	G	E	E	G		E	E
Copper Sulfide		E	E	E	E		E	E		C	E					E		E	E
Corn Oil		G	G	C	X		E	E		X	E	G	E	E		X	E	E	E
Cottonseed Oil	G	G	C	C	C	E	E	E		X	G	E	E	G	E	X		E	E
Creosote (Coal Tar)		X	X	X	X		E	E		X	G	X	C			X		E	E
Creosote (Wood)		C	X	G	X		E	E		X	E					X		E	
Cresols		X	X	X	X	X	E	E		X	X	X	X	X		X	X	E	G
Cresote						X								X	X				
Cresylic Acid		X	X	X	X		E	G		X	X	X	X			X		E	G
Cresylic Acid, 50%						X							X	X	C				
Crotonaldehyde		X	E	X	E		E	X		X	X		X			C		E	E
Crude Oil, Sour						X							E	C	C				
Crude Oil, Sweet						X							E	C	C				
Cumene		X	X	X	X		E	E		X	X		X			X		E	E
Cupric Carbonate		E	E	E			E	E		C	E							E	E
Cupric Chloride		E	E	G	E		E	E	E	C	E					C		E	E
Cupric Hydroxide		G	E				E	C		C	G								
Cupric Nitrate		E	E	E	E		E	E	E	G	E					C		E	E
Cupric Sulfate		E	E	E	E		E	E		G	E	G	X			E		E	E
Cutting Oil		G	X	G	X		E	E		X	E		E			X			
Cyclohexane		X	X	X	X	C	E	E		X	G	E	G	X	X	X	X	E	E
Cyclohexanol		G	X	G	X	E	E	E		X	G	E	C	X	X	X	X	E	E
Cyclohexanone		X	X	X	C	E	E	X		X	X	E	X	X	X	X	X	E	X
Cyclopentane		X	X	E	X		E	E		X	G							E	E
Cyclopentanol		X	X					G		X	G					X		E	E
Cyclopentanone		X	X				E	X		X	X								E
Cyclopentyl Alcohol		X	X					G		X	G					X		E	E
P-Cymene	X	X	X	X	X		E	E		X	X		X			X		E	E
DDT In Deionized Kerosene		X	X	C	X		E	E	G	X	E	E	G			X		E	E
Decahydronaphthalene		X	X	X	X		E	E		X	X	E	X			X	X		
Decahydroxynaphthalene	C																		
Decalin		X	X	X	X		E	E	X	X	X	G	X			X	X	X	E
Decane		X	X	X	X			A		X	G					X		E	E
1-Decanol		E	X	X	X		E	G		X	E		E			X			E
Decyl Alcohol		E	X	X			E	G		X	E							E	E
Decyl Aldehyde		X	C				E	X		X								E	E

\*\*\*Refer to the PVC Temperature/Pressure Chart on page 269

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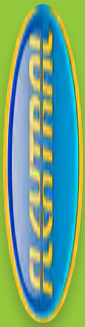
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Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Decyl Butyl Phthalate		X	E				E	C		X	X							E	E
Decyl Carbinol		E	E				E	G		E	E								
Developing Fluid, Photo		E	G	E	G		E	E		E	E	E				G		E	E
Dextrin						E							E	E	E				
Dextron		X	X	G	X			E		X	E		G			X			
Dextrose						E							E	E					
Diacetone Alcohol		X	E	X	E		E	X		X	X		X			X		E	C
Diacylmethane	G	X	E	X	E		E	X		X	X		X			X	E		
Diallylphthalate	G																		
Diammonium Phosphate	E	E	E	E	E		E	E		E	E	E				E			
Diamyl Napthalene		X	E				E	C		X									E
Diamyl Phenol		X	X				E	E		X	X					X			E
Diamylamine		C	E		E		E	X		G	G		X			X			
Diamylene		X	X	X			E	E		X	C	G							E
Diazo Salts						E								E	E				
Dibenzyl Ether		X	G	X	C		E	X		X	X		G			X		E	E
Dibenzylsebacate		X	G	X	G		E	G	E	C	X					X		E	E
Dibromobenzene		X	X				E	E		X								G	E
Dibromomethane		X	X	X	C		E	G		X	X						X		
Dibutyl Ether		X	X	X	X		E	X		X	X		X			X		E	E
Dibutyl Phthalate		X	C	X	E		E	C		X	X	E	X			X		E	E
Dibutyl Sebacate		X	G	X	G		E	E		X	X		X			X		E	E
Dibutylamine		X	X	X	X		E	X		X	X		X			X		E	
Dicalcium Phosphate		E	E				E	E		E	E								E
Dichloro Difluoro Methane	C	E	X	G	C		E	G		X	C	G	E			E	X		
Dichloro Ethylene		X	C	X	X		E	G				C	C				X		
Dichloroacetic Acid		X	C				E	X		G			C					E	E
Dichlorobenzene						X								X	X				
Ortho-Dichlorobenzene		X	X	X	X		E	E		X	X	E	X			X	X		
P-Dichlorobenzene		X	X	X	X		E	E	G	X	X					X		X	X
Para-Dichlorobenzene		X	X	X	X		E	E		X	X		X			X			G
Ortho-Dichlorobenzol		X	X	X	X		E	E		X	X	E	X			X	X		X
Dichlorobutane		X	X	X	C		E	E		X	G		X			X		E	G
Dichloroethane	X	X	C	X	X		E	G		X	X	C	X			X	X		E
Dichloroethyl Ether		X	X				E			X	X					X			E
Dichloroethylene		X	X	X	X		E	E	X	X	X					X		C	C
Dichlorohexane		X	X				E	E		X								E	E
Dichloroisopropyl Ether		X	C	X	C			C		X	X					X		E	E
Dichloromethane		X	X	G	C		E	G		X	X	C				X	X	E	E
Dichloropentane		X	X	X			E	E		X	X		X			X		E	E
Dichloropropane		X	X	X			E	E		X	X							E	E
Dichloropropene							E	E										E	E
Dichlorotoluene	X																		
Diesel Oil	E	C	X	C	X		E	E		X	E	E	C	C	C	X	X	E	G
Diethanolamine		C	E		E		E			G		G				X		E	
Diethyl Benzene		X	X	X	X		E	E	G	X	X					X		E	E
Diethyl Ether		X	X	X	X	X	E	X		X	X	E	E	X	X	X	E	G	
Diethyl Ketone		X	G	X	E		E	X		X									G
Diethyl Oxalate		X	X	X	X		E			X	X								E
Diethyl Phthalate		X	E				E	C		X								E	E
Diethyl Sebacate		C	G	X	G		E	G		X	X		X			X	E		
Diethyl Sulfate		X	G	E	E		E	X		X	X		X			E			
Diethyl Triamine		C	E				E			G	G								

\*\*\*Refer to the PVC Temperature/Pressure Chart on page 269







## HOSE & CHEMICAL TABLE

**Key:** E = Excellent • G = Good • C = Conditional • Blank = No Data • X = Not Recommended

Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA**	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Diethylamine		X	G	G	G					G	C					G			
Diethylamine		C	G	G	G		E	X		G	C		C			G		E	C
Diethylbenzene		X	X	X	X		E	E		X	X		X			X		E	E
Diethylene Dioxide		X	G	X	G		E	X	E	X	X					X		E	E
Diethylene Glycol		E	E	E	E	G	E	E		E	E	E	X	G	G	E		E	E
Diethylene Oxide			X		E		E												
Diethylene Triamine		C	E		E		E			G			X			X	E	E	
Diglycolic Acid						E								E	E				
Dihydroxy Diethyl Ether		E	E	E	E		E	E	E	E	E					E		E	E
Dihydroxy Succinic Acid		E	G	C	G		E	E		E	G		E						
Diisobutyl Ketone		X	G	X	E		E	X		X	X		X			X		E	E
Diisobutylene		X	X	C	X		E	E		X	E		X			X		E	E
Diisodectyl Phthalate		X	E		E		E	C		X						X		E	E
Diisodecyl Phthalate		X	E	X	E		E	C		X	X			X				E	E
Diisooctyl Adipate		X	E	X	E		E	C		X	X					X		E	E
Diisooctyl Phthalate		X	E		G		E	C		X								E	E
Diisopropanolamine		C	E				E			G	G								
Diisopropyl Benzene		X	X	X	X		E	E	G	X	X					X		E	E
Diisopropyl Ether		C	X	X	X		E	X		X	G		G			X			E
Diisopropyl Ketone		X	E	X	E		E	X		X	X		X			X			E
Dilauryl Ether		C	D	X	X		E	C	G	X	C					X		E	E
Dimethyl Phenols (DMP)		X	X	X	X		E	X	E	X	X					X		C	C
Dimethyl Phthalate		X	G	X	G		E	G	E	X	X		X			X	G	E	E
Dimethyl Sulfate		X	G	X	X		E	X	X	X	X					X		E	X
Dimethyl Sulfide		X	C	X	X		E	C	E	X	X					X		G	G
Dimethylamine		X	G	X	X	X	E	X			X	E	X	X	X			E	X
Dimethylaniline	C	X	X	X	G		E	X			X		X			X		G	G
Dimethylbenzene	C	X	X	X	X		X	E			X	G	X			X	X	E	
Dimethylbutane	G																		
Dimethylcarbinol		E	E	E	G		E	E		E	G							E	
Dimethylformamide (DMF)		C	C	C	C		E	X	E	C	X					C		E	E
Dimethylketone	G	X	E	X	E		E	X			X	E	X			C	E	E	
Dinitrobenzene		X	C	C	C		E	E	G	X	X					X		E	E
Dinitrotoluene		X	X	X	X		E	G	E	X	X					X		E	E
Diocetyl Adipate (DOA)		X	E	X	G		E	C		X	X							E	
Diocetyl Phthalate (DOP)		X	G	X	G	G	E	G		X	X	E	X	X	X	X		E	E
Diocetyl Sebacate (DOS)		X	G	X	G		E	G	E	X	X					X		E	E
Dioxalanes		X	X	X	G		E	X	G	X	X		X			X		E	E
Dioxane		X	G	X	G		E	X		X	X	E	X			X		E	E
1,4 Dioxane		X	G	X	G		E	X		X	X	E	X			X	X		E
Dipentene		X	X	X	X		E	E		X	G		X			X			
Dipentylamine		C	E		E		E	X		G	G		X			X			
Diphenyl		X	X	X	X			A		X	X					X		E	E
Diphenyl Oxide		C	X	X	X			A		X	X					X		E	E
Di-P-Mentha-1,8-Diene		X	X	X	X		E	E		X	G		X			X			
Dipropyl Ketone		X	G	X	G		E	X	E	X	X					X		E	E
Dipropylamine		C	E				E			G	G								
Dipropylene Glycol		E	E				E	E		E	E								
Disodium Phosphate		E	E		E	E	E	E		E	E		E	E	E			E	E
Divinyl Benzene		X	X				E	E		X						X		E	E
Dodecyl Benzene		X	X	X	X		E	E	G	X	X					X		E	E
Dodecyl Toluene		X	X	X	X		E	E	G	X	X					X		E	E
Dowell Inhibitor	G																		

\*\*\*Refer to the PVC Temperature/Pressure Chart on page 269

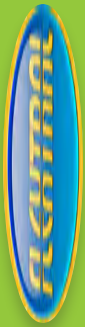
# HOSE & CHEMICAL TABLE

Key: E = Excellent • G = Good • C = Conditional • Blank = No Data • X = Not Recommended

Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Dowfax 2A1 Solvent	E																		
Dowfax 2A1 TA	E																		
Dowfax 6A1 Solvent	G																		
Dowfax 6A1 Ta	E																		
Dowfume W 40, 100%		C	D	C	C			C		X	X					X		G	G
Dow-Per		X	X	X	X		E	E	G	X	C					X		E	E
Dowtherm A & E	X	X	X	X	X		E	E	E	X	X	X	X			X		E	E
Dowtherm S.R.I.		E	E	E	E		E	E	E	E	E					E		E	E
Dry Cleaning Fluids		X	X	X	X		E	E			C	E	X			X		G	X
Ducgkirieobaane			X																
Duro AW16, 31					X		E				E	E							
Duro FR-HD					X		E				E	E							
Epichlorohydrin		C	C	X	G		E	X	G	X	X					X		G	G
Ethanoic Acid	E	C	G	G	E		E	X		X	C	X	X			G	C	E	E
Ethanolamine		X	G	G	G		E	X		X	G	E	C			X		E	E
Ethanol (Ethyl Alcohol)	G	E	E	E	E		E	C		E	E	G	X			E	E	E	E
2 (2Aminoethylamino) Ethanol		G	E							G	G								
2 (2Ethoxyethoxy) Ethanol		X	G	X	G		E	X		X	X	E	X			X	X		
2-Ethoxyethanol		X	G	X	G		E	X		X	X		X			X	X		
Ethers	G	X	X	X	C	X	E	X		X	X	E	X	X	C	X		C	
Bis (2-Chloroethyl) Ether		X	X				E			X	X					X			
Ethyl Acetate	G	X	G	X	E	C	E	X		X	X	E	X	X	C	X	E	E	G
2-Ethoxyethyl Acetate	X	X	G	X	G		E	X		X	X	G	X			X	X		
2 Ethoxyethoxy) Ethyl Acetate	X	X	G	X	X		E	X		X	X		X			X	X		
Ethyl Acetoacetate		X	G	X	G		E	X		C	X					C		E	E
Ethyl Acetone		X	G	X	G		E	X		X	X					X			
Ethyl Acrylate		X	G	X	G		E	X		X	X		X	X	X	X		E	G
Ethyl Alcohol (Ethanol)	G	E	E	E	E		E	E		E	E	G	X			E	E	E	E
Ethyl Alcohol, 1%-50%						G								G	G				
Ethyl Alcohol, 50%-98%						C								C	C				
Ethyl Aldehyde	E	C	G	X	E		E	C		X	X	G	X			E	E	E	E
Ethyl Aluminum Dichloride		X	X				E	G		X	X								G
Ethyl Benzene		X	X	X	X		E	E		X	X		X			X		E	X
Ethyl Benzoate		C	G	C	G			C		X	G					X		E	E
Ethyl Bromide		X	X	X	X		E	E		C	G		X			X			X
Ethyl Butanol		E	E	E	E		E	G	E	E	E							E	E
Ethyl Butyl Acetate		G	E				E	X		X	X							E	E
Ethyl Butyl Ketone		X	G				E	X		X	X								E
2-Ethyl (Butyraldehyde)		X	G				E	X		X	X								E
Ethyl Cellulose		G	G	G	G		E	X		G	G	C	G			G		E	E
Ethyl Chloride	X	C	E	X	E	X	E	E		C	E	E	C	X	X	G	X	G	C
Ethyl Dichloride		X	X	X	X		E	G	G	X	X		X			X		G	G
Ethyl Diisobutylthio- Carbamate										E						E		E	
Ethyl Ether	G	X	X	X	X	X	E	X		X	X	G	C	X	X	X		C	C
Ethyl Formate		G	G	G	G		E	E		X	X					X		E	E
Ethyl Hexanol		E	E	E	E		E	G	E	E	E					E		E	E
2-Ethyl-1-Hexanol		E	G	E	E		E	E		G	E		X			E	E		E
2-Ethylhexanoic Acid		G	C				E			C	C								
2-Ethylhexyl Acetate		G	E				E	X		X	X								
Ethyl Iodide		X	C	X	C		E	G		X	X							G	E
Ethyl Methyl Ketone		X	G	X	G		E	X	E	C	X					X		E	E
Ethyl Oxalate		X	X	X	C		E	E		C	X		E			X		E	E
Ethyl Phthalate		X	E				E			X	X							E	

\*\*\*Refer to the PVC Temperature/Pressure Chart on page 269





## HOSE & CHEMICAL TABLE

**Key:** E = Excellent • G = Good • C = Conditional • Blank = No Data • X = Not Recommended

Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Ethyl Propyl Ether		X	X	X	X			C	F	X	X					X		F	E
Ethyl Propyl Ketone		X	G	X	G		E	X	G	X	X					X		F	E
Ethyl Silicate		G	F	E	E		E	E		G	E		X			G		F	E
Ethyl Sulfate		X	G	D	G		E	X	F	X	X					X		F	E
Ethylamine		C	G	X	E		E	X		C	X	E	X			C		F	
Ethylene		C	X	G	X			E		X	E					X		F	E
Ethylene Bromide		X	X	X	X	X	E	E	G	X	X		X	E	X	X		G	G
Ethylene Chloride	X	C	C	X	X	X	E	G	G	X	X	G	X	X	X	X	X	C	X
Ethylene Chlorohydrin		C	G	G	G		E	E		C	X	E						E	E
Ethylene Diamine		G	E	E	E		E	X		G	G	E	X			G		E	E
Ethylene Dibromide		X	X	X	C		E	G		X	X		X			X		G	G
Ethylene G Monobutyl Ether		C	E	C	E		E	X		X	C		X			X			E
Ethylene G Monoethyl Acetate		X	E	X	E		E	E		C	C		X						
Ethylene G Monohexyl Ether																			E
Ethylene G Monomethyl Ether		G	E	E	G		E	X		X	C								E
Ethylene Glycol	G	E	E	E	E	E	E	E		E	E	E	G	E	E	E	E	E	E
Ethylene Oxide	X	X	X	X	C	X	E	X		X	X	E	X	X	X	X		E	G
Ethylene Trichloride		X	X	X	X		E	E	G	X	C					X		G	G
Fatty Acids		C	X	G	X	C	E	E		X	E	E	C	E	E	X	X	E	E
Ferric Bromide		E	E				E	E		E	E							E	
Ferric Chloride	X	E	E	E	E	E	E	E		E	E	X	E	E	E	E		E	E
Ferric Nitrate		E	E	E	E	E	E	E		E	E	E	E	E	E	E		E	E
Ferric Sulfate	X	E	E	E	E	E				E	E		E	E	E	E			
Ferrous Acetate		E	E				E	X		X	X								E
Ferrous Ammonium Sulfate		E	E	E	E			A		E	E					E		E	E
Ferrous Chloride		G	G	G	E	E	E	E		E	E	E	G	E	E			E	E
Ferrous Hydroxide		G	E	E	E		E	C	E	G	G					C		E	E
Ferrous Sulfate		E	E	E	E	E	E	E		E	E	G	E	E	E	E		E	E
Fish Oil		E	E	E	X		E	E		X	E					X		E	E
Fish Solubles						E							E	E	E				
Fluoboric Acid		E	G	E	E		E	E		E	E		X			E		C	C
Fluorine		X	X	X	E		G	E		X	X	X	X					C	X
Fluorine Gas, Dry						X							X	X	X				
Fluorine Gas, Wet						X							X	X	X				
Fluoroboric Acid						E							E	E	E				
Fluorosilic Acid		E	E	E	E	G	E	C	E	E	E		X	E	E	G	C	C	G
Foric Acid						E							X	E	E				
Formaldehyde	G	G	E	G	E		E	E			C	G	X			C	E	E	E
Formaldehyde (40% AQ)						E								X	G				
Formalin	G	G	E	G	E		E	E			C	G	X			C	E	E	E
Formamide		E	E	E	E		E	X	E	E	E					E		E	E
Formic Acid	X	E	E	E	E	E	E	X		C	C	X	X			E	E	E	E
Freon 11		E	X	G	X			E		G	E					X		E	E
Freon 12	C	E	C	E	C	G	E	G		C	E	E	E	C	G	E	X		E
Freon 13		E	E	E	E			E		E	E					E		E	E
Freon 21		X	X	G	X			X		X	X					X		E	E
Freon 22	C	E	X	E	E		E	C		C	X	G	X			E	X		
Freon 31		G	E	E	E			X		G	X					G		E	E
Freon 32		E	E	E	E			C		E	E					E		E	E
Freon 112		G	X	G	X			E		X	G					X		E	E
Freon 113		E	X	E	X		E	G		X	E	E	G			G	X	E	E
Freon 114		E	E	E	E			G		E	E					E		E	E
Freon 114B2		E	X	E	X			G		X	G					C		E	E

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Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Freon 115		E	E	E	E			G		E	E					F		E	E
Freon 13B1		E	E	E	E			E		E	E					F		E	E
Freon 142B		E	E	E	E			X		E	E					F		E	E
Freon 152A		C	E	E	E			X		E	E					F		E	E
Freon 218		E	E	E	E			E		E	E					F		E	E
Freon 502			E	E	E			G		E	G	E				F			
Freon BF		G	X	G	X			E		X	G					X		E	E
Freon C316		E	E	E	E			E		E	E					F		E	E
Freon C318		E	E	E	E			E		E	E					F		E	E
Freon MF		B	X	C	X			E		X	E					G		E	E
Freon TA		E	E	E	E			C		E	E					F		E	E
Freon TC		E	E	E	G			E		X	E					G		E	E
Freon TF		E	E	E	E			E		C	E					G		E	E
Freon TMC		G	G	G	G			E		G	G					C		E	E
Freon T-P35		E	E	E	E			E		E	E					F		E	E
Freon T-WD 602		G	E	G	G			E		C	E					G		E	E
Fructose						E							E	E					
Fruit Juices & Pulps						E							E	E					
Fuel Oil	E	C	X	G	X	X	E	E		X	E	G	C	G	G	X		E	E
Fumaric Acid		G	X	G	X		E	E	E	E	E					E		E	E
Furaldehyde	E	C	E	C	G		E	X		X	X	C	X			X	E		
Furan		X	X	X	X		E	C		X	X		X			X			
Furfural	E	C	E	C	G	X	E	X		X	X	E	X	X	X	X	E	E	E
Furfuryl Alcohol		X	G	X	G	X	E	C		X	X	G	X			X	E	E	C
Gallic Acid		G	G	G	G	E	E	E		E	G	G	X	E	E	G		E	C
Gallotannic Acid		E	G	E	E		E	E		E	E	E	E					E	E
Gas, 100 Octane		X	X	C	X					X	E					X			
Gas, Coal				E	E			E			X	E	G						
Gas, Coke Oven													G	G	G				
Gas, Natural, Dry						X							C	C	C				
Gas, Natural, Wet						X							C	C	C				
Gasoline	E	X	X	X	X	X	E	G	G	X	E	G	C	X	X	X		G	G
Gasoline, 100 Octane							E	E				G	C				X	C	
Gasoline, Sour						X							E	C	G				
Gelatin		E	E	E	E		E	E	E	E	E					E		E	E
Gelatine						E							E	E	E				
Glacial Acrylic Acid																			E
Gluconic Acid		G	C				E			X	C							E	
Glucose		E	E	G	E	E	E	E		E	E	E	C	E	E	E		E	E
Glue		E	G	E	E		E	C	E	G	E					G		E	E
Glycerine	E	E	E	E	E	E	E	E		E	E	E	C	E	E	E	X	E	E
Glycerol	E	E	E	E	E		E	E		E	E	E	C			E	X	E	E
Glycogenic Acid		G	C				E			X	C								
Glycolic Acid, 30%						E							X	E	E				
Glycols		E	E	E	E	E	E	E	E	E	E	E	X	E	E	E	G	E	E
Glyconic Acid		G	C				E			X	C							E	
Glycyl Alcohol	E	E	E	E	E		E	E		E	E	G	C			E	X		
Grease													E	E	E				
Grease, Petroleum Base	E	X	X	C	X		E	E		X	E	E	E			X	X	E	G
Green Liquor						E								E	E				
Green Sulfate Liquor		G	E	G	E		E	E		G	G	X	E			G		E	E
Halon 1211				E							E								
Halowax Oil		X	X	X	X		E	E	E	X	X					X		E	E

\*\*\*Refer to the PVC Temperature/Pressure Chart on page 269





HOSE & CHEMICAL TABLE

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Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Helium		E	E	E	E		E	E		E	E	E	E			E			
1-Hendaconal	E																		
Heptachlor In Petroleum Solvents		X	X	G	X		E	E	G	X	G					X		E	E
Heptachlor In Petroleum Solvents, Water Spray		X	X	G	X			E		X	G					X		E	E
Heptaldehyde		X	X				E	X		X	E								
Heptanal		X	X				E	X		X	E							E	E
Heptane	E	G	X	G	X	X	E	E		X	E	E	G	C	G	X		E	G
Heptane Carboxylic Acid		G	C				E			X	C								
Heptanoic Acid	E																		
Heptanone	C																		
Hexadecanoic Acid	G	C	G	G	G		E	E		E	E	C	E			G	E		
Hexadecanol						X													
Hexaldehyde		C	G	E	E		E	X		X	X		G			X		E	E
Hexane		E	X	E	X		E	E		X	E	E	G	C	C	X	E	E	G
Hexanol		G	C	G	G		E	E		E	G	E	X			E		E	E
Hexanol, Tertiary						C							G	C	C				
Hexene		G	X	G	X		E	E		X	G		G			X			E
Hexyl Alcohol		G	C	G	G		E	G		E	G	E	X			E		E	E
Hexyl Methyl Ketone		X	G				E	X		X	X								E
Hexylamine		C	G				E	X		C	C								
Hexylene		X	X	G	C		E	E		X	E					X		G	G
Hexylene Glycol		E	E	E	C		E	E		E	E								
Histowax	E																		
Hydraulic Fluid, Petroleum	E	G	X	G	X		E	E	E	X	E	E				X	X	E	E
Hydraulic Fluid, Phosphate Ester Base		X	E	X	E		E	X	E	X	X					X		E	E
Hydraulic Fluid, Poly Alkylene Glycol Base		E	E	E	E			E		G	E					G		E	E
Hydrazine		G	E	G	E			E		X	G					G			E
Hydrobromic Acid	X	E	E	X	E		E	E		E	X	X	X			X		E	E
Hydrobromic Acid, 20%						G							X	E	E				
Hydrochloric Acid	X	C	E	C	C		E	C	E	C	C	X	C			X	E	E	E
Hydrochloric Acid, 10%						E							X	E	E				
Hydrochloric Acid, 48%						G							X	E	E				
Hydrocyanic Acid	X	E	G	G	E		E	E		G	G	G	X			G	E	E	E
Hydrofluoric Acid	X	E	G	C	C		E	G		C	C	X	X			C	X	E	E
Hydrofluoric Acid, 60%						E							X	G	G				
Hydrofluosilicic Acid	X	E	E	G	E		E	E		E	G	X	C	G	G	G		G	E
Hydrogen						C							C	C	C				
Hydrogen Bromide, Dry						E													
Hydrogen Chloride, Anhydrous	E											X						E	E
Hydrogen Chloride, Dry						E													
Hydrogen Cyanide						C							X	C	C				
Hydrogen Dioxide, 10%		G	C	X	G		E	E		G	C	X						E	E
Hydrogen Gas	C	E	E	E	E		E	E		G	E	E	E			G		E	E
Hydrogen Peroxide, 3%		C	C	C	E		E	E	E	X	C					X		E	E
Hydrogen Peroxide, 10%		E	G	X	G	G	E	E		G	C	C	G	E	E	C		G	G
Hydrogen Peroxide, 30%	X	X	X	X	C	G	E	E	E	X	X	X	C	E	E	X		E	E
Hydrogen Peroxide, 50%						X							C	E	E				
Hydrogen Peroxide, 90%	X	X	X	X	C	X	E	G		X	X	X	C	X	X	X		G	G
Hydrogen Phosphide						E								E	E				
Hydrogen Sulfide (AQ)						E								E	E				
Hydrogen Sulfide, Dry						E								E	E				
Hydrogen Sulfide, Wet	X	E	E	E	E		E	C		X	C	C	C			X		E	E
Hydroquinone		C	G	X	G	E	E	X	E	G	X		E	E	E	G		E	E

\*\*\*Refer to the PVC Temperature/Pressure Chart on page 269



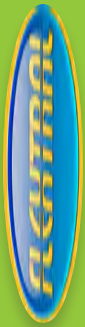
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Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Hydroxy Benzene		C	G	X	C		E	E		X	X		C						
2-Chloro-1-Hydroxy- Benzene	C																		
Hydroxyisobutyronitrile	E																		
Hydroxytoluene	E																		
Hypochlorous Acid		E	G	G	G	C		E		G	X		C	E	E	G		E	E
Hyvar XI					E														
Iminodi-2-Propanol	E																		
Iminodiethanol	E																		
Ink Oil, Linseed Oil Base		G	G	G	G		E	E	G	X	G					X		E	E
Inks						E													
Insulating Oil		X	X	G	X		E	E	E	X	E					X		E	E
Iodine		G	G	X	G		E	E		X	G	X	X			G		E	X
Iodine in Alcohol						X						X	X	X					
Iodine Pentafluoride		X	X	X	X		E	X		X	X		X			X		C	C
Iodoform				X	X					X	E					X			
IRM-902	E	X	X	G	X		E	E		X	E	E	G			X	X	E	E
IRM-903		G	X	C	X		E	E		X	E	E	E			X	X	E	E
Iron Acetate		X	E	X	G		E	X	E	X	X					X		E	E
Iron Hydroxide		G	E	E	G		E	C	E	C	G					C		E	E
Iron Salts		E	E	E	E		E	E	E	E	E					E		E	E
Iron Sulfate		E	E	E	E		E	E	E	E	E					E		E	E
Iron Sulfide		E	E	E	E		E	E	E	E	E					E		E	E
Isobutane	G	E	E	E	E		E	G		E	G					E		E	E
Isobutyl Acetate		X	E	X	G		E	X	G	X	X					X		E	E
Isobutyl Aldehyde		X	G	X	G		E	X		C	X					X		E	E
Isobutyl Chloride		X	X	X	X		E	G	G	X	X					X		G	G
Isobutyl Ether		X	X	X	X		E	X		X	X					X		E	E
Isobutylamine		C	E				E	X		C	X								
Isobutylbromide		X	X				E	G		X	X								
Isobutylcarbinol		E	E	E	E		E	E		E	E		C						
Isobutylene		X	X	X	X		E	E	G	X	E					X		E	E
Isocyanates								G			G	G	G					E	E
Isomyl Acetate		X	E	X	G		E	X	G	X	X					X		E	E
Isomyl Alcohol		E	E	E	E		E	E	E	E	E					E		G	E
Isomyl Bromide		X	X	X	X		E	G		X	X					X		G	G
Isomyl Butyrate		X	C	X	C		E	X	G	X	X					X		G	G
Isomyl Chloride		X	C	X	X		E	G	G	X	X					X		G	G
Isomyl Ether		X	X	X	X		E	X		X	X					X		E	E
Isomyl Phthalate		X	E	X	G		E	C		X	X					X		E	E
Isooctane	E	G	X	G	X		E	E		X	E	E	G	C	C	X	X	E	E
Isopentane		X	X	E	X		E	E	G	X	E					X		G	G
Isopropyl Acetate		X	G	X	G		E	X		X	X	G	X	X		X		E	E
Isopropyl Alcohol (Isopropanol)		E	E	G	E	E	E	E		E	E	E	X	E	E	E		E	E
Isopropyl Amine		C	E	E	G		E	X	G	G	G					C		E	E
Isopropyl Benzene		X	X	X	X		E	E	G	X	X					X		E	E
Isopropyl Chloride		X	X	X	X		E	G		X	X					X		G	G
Isopropyl Ether		C	X	X	X		E	X		X	G	E	G			X		E	E
Isopropyl Toluene		X	X	X	X		E	E		X	X					X		E	E
Jelly														E					
Jet Fuels (JP1-JP6)		X	X	X	X		E	E		X	E	C	C	X	X	X	X	E	E
JP-4 Oil		X	X	X	X		E	E		X	E	C	C			X	X		
Kerosene	G	X	X	C	X	X	E	E		X	E	E	G	X	C	X	X	E	E
Ketones	G	C	G	X	E	C	E	X		C	X	E	X	X	X	G	X	C	X

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Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Kraft Liquor						G								E	E				
Lacquer Solvents	C	X	X	X	X	C	E	X		X	X	E	X	X	X	X		G	G
Lacquers		X	C	X	X		E	X	E	X	X					X		G	G
Lactic Acid, 28%						E							C	E	E				
Lactic Acid, Cold	X	E	E	E	E		E	E		E	E	E	G			E		E	E
Lactic Acid, Hot		C		X	X		E	E		X	X	X				X			
Lard		G	C	G	G	G	E	E		X	E	E	C	E	E	X	E	E	E
Lauric Acid													C	E	E				
Lauryl Alcohol		E	E	E	E		E	G	E	E	E					E		E	E
Lauryl Chloride						C							E	E	E				
Lauryl Sulfate						X							E	E					
Lavender Oil		X	X	X	X		E	E		X	G		X			X		G	G
Lead Acetate		C	E	G	E	E	E	E		E	G	G	C	E	E	X		E	E
Lead Arsenate						E							E	E					
Lead Nitrate		C	E	E	E	E	E	E		E	E		E	E	E	E		E	E
Lead Sulfamate		G	E	E	E			E		G	G					G		E	E
Lead Sulfate		E	E	G	E		E	E		E	E	G						E	E
Lead Tetra-ethyl						E								E	E				
Lemon Juice														E					
Ligroin		X	X	E	X		E	E	G	X	E					X		E	E
Lime		E	E	E	E		E	E		E	E	E	G						E
Lime Bleach		G	E	G	E		E	E		E	E	G				E			
Lime Sulfur						G								E	E				
Lime Sulfur, Wet		G	E	E	C		E	E		C	E	G						E	E
Lime Water		E	E	E	E			E		X	C					X		E	
Limonene		X	X	X	X		E	E		X	X								
Lindol		G	E	X	E			E		X	X					X		E	E
Linoleic Acid		X	X	C	X		E	G		X	G		C	E	E	X		E	E
Linseed Oil	G	G	G	E	C	C	E	E		X	E	E	G	E	E	X		E	C
Liquid Soap		E	E	E	E		E	E	E	E	E					E		E	E
Liquors, Chemical						E								E	E				
Lubricating Oils, SAE	G	X	X	C	X	X	E	E		X	E	E	E	G	G	X	X	E	X
Lye		E	E	E	E			X		E	G					G		E	E
Lye Solutions	C	E	E	E	E		E	G		E	C	G	G			G	C	E	E
Magnesium Acetate		E	E	X	E		E	X		X	X		X			X			E
Magnesium Carbonate		E	E	E	E	E	E	E	E	E	E		E	E	E	E		E	E
Magnesium Chloride	G	E	E	E	E	E	E	E		E	E	E	E	E	E	E		E	E
Magnesium Hydrate		E	E	G	E		E	G		E	G		E					E	
Magnesium Hydroxide	G	E	E	E	E	E	E	E		E	E	E	C	E	E	G		E	E
Magnesium Nitrate		E	E	E	E	E	E	E	E	E	E		E	E	E	E		E	E
Magnesium Sulfate	G	E	E	E	E	E	E	E		G	E	E	C	E	E	G		E	E
Magnesium Sulfite		E	E	E	E			E		G	E					G			
Malathion 50 In Aromatic Solvents		X	X	C	X		E	E	E	X	C					X		E	E
Maleic Acid		X	X	X	E		E	E		X	C	X	C			X		E	C
Maleic Acid (25% AQ)						E							C	E	E				
Maleic Anhydride		X	X	X	X		E	E		X	X					X			E
Malic Acid		G	X	G	X	G	E	E		E	E	X	C	E	E	G		E	E
Manganese Sulfate		E	G	E	E		E	E		G	E		E					E	E
Manganese Sulfide		E	E	G	G		E	E	E	C	E					E		E	E
Manganese Sulfite		E	E	G	G		E	E	E	C	E					E		E	E
MAPP				E	G						E					G			
Mayonnaise														E					
Mercuric Chloride		E	E	C	E	G	E	E	E	G	G		G	G	G	G		E	E

\*\*\*Refer to the PVC Temperature/Pressure Chart on page 269

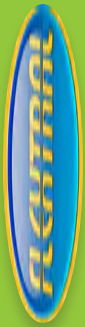
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Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Mercuric Cyanide						G								X	X				
Mercurous Nitrate						G							G	G	G				
Mercury	G	E	E	E	E	G	E	E		E	E	E	E	G	G	E		E	E
Mercury Vapors		E	E	C	E		E	E		C	E					E			
Mesityl Oxide		X	C	X	G		E	X		X	X		X			X		E	E
Methacrylic Acid		C	G	G	G			X		X	X					X		E	E
Methallyl Alcohol		E	E				E	G		E	E	X						E	E
Methallyl Chloride	C											E						G	X
Methane		G	X	G	X		E	E		X	E					X		E	E
Methanoic Acid	X	E	E	E	E		E	X		C	C	X	X			E	E		
Methanol (Methyl Alcohol)	G	E	E	E	E		E	C		E	E	G	X			E	E	E	C
Methoxy Ethanol	E																		
Methoxyethoxy Ethanol	E																		
Methyl Acetate		C	G	C	G	X	E	X		X	X	E	X	X	X	X		E	E
Methyl Acetoacetate		X	G	X	G		E	X		X	X		X						E
Methyl Acetone		X	G	X	E		E	X		C	X							E	
Methyl Acetylene Propadiene				E	G						E					G			
Methyl Acrylate		X	G	C	G		E	X	E	C	X					X		E	E
Methyl Allyl Alcohol		E	E				E	G		E	E								
Methyl Allyl Chloride	C	X	X					X		X						X			G
Methyl Amyl Carbinol		E	E				E	G		E	E								E
Methyl Benzene	C	X	X	X	X		E	E		X	X	E	X			X	X	E	X
Methyl Bromide		X	C	X	C	X	E	E		X	G	E	X	X	X	X	X	G	X
Methyl Butane		X	X	X	X		E	E			E		G						
1-Bromo-3 Methyl Butane		X	X	X	X		E	G		X	X								
1-Chloro-3-Methyl Butane		X	C	X	X		E	E		X	X	E							
Methyl Butanol	E	E	E	E	E		E	E		E	E	E	X			G	E	G	E
Methyl-2-Butanol	E	E	E					F		E						E			E
Methyl-2-Butanone	X	X	G	X	C		E	X		X	X	E	X			X			E
Methyl Butyl Ketone		X	E	X	E		E	X		X	X	E	X			X		E	
Methyl Carbitol		E	E				E			X	C								E
Methyl Cellosolve		C	G	G	G		E	X		X	C	E	X			X		E	E
Methyl Chloride	C	X	X	X	X	X	E	E		X	X	C	X	X	X	X	X	E	X
Methyl Cyanide		G	E	E	E		E	X		G	C	E							
Methyl Cyclohexane		X	X	X	X		E	G		X	X					X		G	G
Methyl Ethyl Ketone (MEK)	G	X	E	X	E	C	E	X		X	X	G	X	X	X	X	C	C	X
Methyl Formate		C	G	G	G		E	C	E	C	X					C		G	G
Methyl Hexanol		E	E				E	G		E	E							E	E
Methyl-2-Hexanone	C	X	G					X		X						X			E
Methyl Isoamyl Ketone	C					C								X	X				
Methyl-4-Isopropyl Benzene	C																		
Methyl Methacrylate		X	C	X	X		E	X		X	X	C	X			X	C	G	G
Methyl Normal Amyl Ketone		X	G				E	X		X	X								E
Methyl-2-Pentanol		E	E	E	E		E	C		G	G								
Methyl-2-Pentanone	X	X	C	X	G		E	X		X	X	G	X			X	X		
Methyl-3-Penten-1-One	C																		
Methyl 1-2,4-Pentanediol	E																		
Methyl-1-Propanol		E	E	E	E		E	E		E	G		X			E			
1-Bromo-2 Methyl Propane		X	X	X			E	G		X	X								
1-Chloro-2-Methyl Propane		X	X				E	G		X	X								
3-Chloro-2-Methyl Propane	G																		
Methyl-2-Propen-1-Ol		E	E	E	E		E	C		G	G								
Methyl Propyl Ether		G	X				E			X	X								E

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Methyl Salicylate			G	X	C		E	G		X	X								
Methyl Styrene	C																		
Methyl Sulfate													E	E	E				
Methyl Sulfide		X	C				E			X	X								
Methyl Sulfuric Acid						E							X	E	E				
Methyl Tertiary Butyl Ether (MTBE)	X		G	X			G	X			X					X		G	
Methylallyl Acetate		G	E				E	X		X	X								E
Methylamyl Alcohol		E	E	E	E		E	C		G	G								E
Methylated Spirit						E													
Methylene Bromide		X	X	X	X		E	C		X	X								G
Methylene Chloride		X	X	X	C	X	E	G		X	X	C	X	X	C	X	X	E	C
Methylethyl Ketone	G	X	E	X	E		E	X		X	X	G	X			X	C	E	E
Methylhexyl Ketone		X	G				E	X		X	X								E
Methylisobutyl Carbinol		E	E	E	E		E	C		G	G								C
Methylisobutyl Ketone	X	X	C	X	G		E	X		X	X	G	X			X	X	E	E
Methylisopropyl Ketone	X	X	G	X	C		E	X		X	X	E	X			X			E
Methylacetonitrile		C	E	G			E	X		C	X		X				E		
Methylphenol		C	X	X	X		E	E		X	X		X						
Methylpropyl Carbinol		E	E				E	G		E	E								
Methylpropyl Ketone		X	G	X	G		E	X		X	X					X			E
Mil-A-6091		E	E	E	E			E		E	G		X			E			
Mil-E-9500		E	E	E	E			E		E	E		X			E			
Mil-F-16884		C	X	C	X			E		X	E		C			X			
Mil-F-17111		X	X	G	X			E		X	E		C			X			
Mil-F-25558B		G	X	G	X			E		X	E		G			X			
Mil-F-25576C		C	X	C	X			E		X	E		C			X			
Mil-F-7024A		X	X	X	X			E		X	E		G			X			
Mil-G-10924B		G	X	X	X			E		X	E		G			X			
Mil-G-25013D		G	X	G	X			E		X	E		C			X			
Mil-G-25537A		G	X	G	X			E		X	E		G			X			
Mil-G-4343B		G	C	G	C			E		C	G		E			C			
Mil-G-5572		X	X	X	X			E		X	E		G			X			
Mil-G-7711A		X	X	X	X			E		X	E		E			X			
Mil-H-13910B		G	G	G	E			E		G	G		X			E			
Mil-H-19457B		X	E	X	E			C		X	X		X			X			
Mil-H-22251		G	E	G	E			E			G					G			
Mil-H-27601A		C	X	G	X			E		X	G		C			X			
Mil-H-5606B		G	X	G	C			E		X	E		G			X			
Mil-H-6083C		G	X	G	X			E		C	E		G			X			
Mil-H-8446B		C	X	G	X			E		X	G		C			X			
Mil-J-5161F		X	X	X	X			E		X	G		C			X			
Mil-J-5624G (JP-3, JP-4, JP-5)		X	X	X	X			E		X	E		C			X			
Mil-L-15016		G	X	G	X			E		X	E		E			X			
Mil-L-17331D		G	X	G	X			E		X	E		E			X			
Mil-L-2104B		C	X	G	X			E		X	E		E			X			
Mil-L-21260		G	X	G	X			E		X	E		E			X			
Mil-L-23699A		C	X	C	X			E		X	G		C			X			
Mil-L-25681C		G	E	G	E			E		G	G		C			G			
Mil-L-3150A		G	X	G	X			E		X	E		G			X			
Mil-L-3545B		C	X	G	X			E		C	G		C			X			
Mil-L-4339C		X	X	X	X					X	E					X			
Mil-L-6082C		G	X	G	X			E		X	E		E			X			
Mil-L-6085A		X	X	X	X			E		X	G		C			X			

\*\*\*Refer to the PVC Temperature/Pressure Chart on page 269

## HOSE & CHEMICAL TABLE

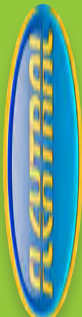
**Key:** E = Excellent • G = Good • C = Conditional • Blank = No Data • X = Not Recommended

Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Mil-L-7870A		X	X	G	X			F		X	E		X			X			
Mil-L-9000F		C	X	G	X			F		X	E		C			X			
Mil-L-9236B		X	X	X	X			F		X	G		X			X			
Mil-O-5606								F			E								
Mil-O-7808		X	X	X	X		E	F		X	G		X			X			
Mil-P-27402		G	E	G	E						G					G			
Mil-S-3136B Type 1 Fuel		G	X	G	X			E		X	E		G			X			
Mil-S-3136B Type 2 Fuel		X	X	X	X			E		X	C		G			X			
Mil-S-3136B Type 3 Fuel		X	X	X	X			E		X	C		G			X			
Mil-S-3136B Type 4 Oil, low swell		E	X	E	X			E		X	E		E			X			
Mil-S-3136B Type 5 Oil, med swell		G	X	G	X			E		X	E		G			X			
Mil-S-3136B Type 6 Oil, high swell		X	X	X	X			E		X	E		G			X			
Mil-S-81087		E	E	E	E			E		E	E		E			E			
Milk						G								E					
Mineral Oil	G	E	X	E	X	C	E	E		X	E	E	E	G	E	X	X	E	E
Mineral Spirits		G	X	X	X		E	E		X	E	E	G			X		E	E
Mobile HFA					X		E				E	E							
Molasses						E							E	E	E				
Molten Sulfur		E	G	E	E		E	E		G	G		G					X	X
Monobutyl Ether		X	X	C	X		E	X		X	C		X			X			E
Mono-Chloroacetic Acid	X	X	G	E	C		E	G		C	X	X	X			X	X		E
Monochlorobenzene		X	X	X	X		E	E		X	X	G	X	X	X	X	X	G	X
Monochlorodifluoromethane	C	E	X	E	E		E	X		C	X	C				E	X		C
Monoethanol Amine		C	G	G	G		E	X		G	G	E	X			G		E	E
Monoethyl Amine		C	G	X	E		E	X		C	X	G	X			C			C
Monomethylamine		C	C	C	E		E	C		C	G	E							E
Monomethylether		C	E	E	E			C		G	E					G		E	E
Monovinyl Acetate		C	G	X	C			E		X	X					X		E	E
Morpholine				X	X		E				X	E							
Motor Oil		G		G	X		E	E			E	G	G					E	E
MTBE	X		G	X			G	X			X					X		G	
Muriatic Acid	X	C	C	C	C		E	C	E	C	C	X	C			X	E	E	E
Na-K					X		X				X								
Naphtha	E	X	X	X	X	X	E	E		X	E	E	C	X	C	G	X	E	E
Naphthalene	C	X	X	X	X	X	E	E		X	X	E	G	X	X	X	C	E	X
Naphthenic Acids	E	X		X	X		E	E		X	G					X			
Neatsfoot Oil		G	G	G	G		E	E	E	X	E					X		E	E
Neohexane		X	X				E	E		X	E								E
Neon Gas		E	E	E	E		E	E		E	E	E	E			E	E		
Nickel Acetate		X	E	G	E	E	E	X		E	G		X	E	E	X		E	E
Nickel Chloride	X	E	E	G	E	E	E	E		E	E	X	C	E	E	E		E	E
Nickel Nitrate		E	E	E	E	E	E	E		E	E	G	E	E	E			E	E
Nickel Plating Solution		G	G	C	G					E	G					X			
Nickel Sulfate	X	E	E	E	E	E	E	E		G	E	G	C	E	E	G		E	E
Nicotine						E							C	E	E				
Nicotine Acid						E							C	E	E				
Nietylene										E									
Niter Cake		E	E	E	E		E	E	E	E	E					E		E	E
Nitric Acid, 1-10%	X	G	E	G	E	G	E	X		X	X	C	X	E	G	X	E	E	E
Nitric Acid, 10%-25%	X	G	G	X	E		E	X		X	X	X	X			X		E	E
Nitric Acid, 25%-40%	X	C	C	X	G	C	E	C		X	X	X	X	G	G	X		G	G
Nitric Acid, 40%-60%	X	X	X	X	X	C	E	C		X	X	X	X	G	G	X		C	C
Nitric Acid, 70%						X							X	X	X				

\*\*\*Refer to the PVC Temperature/Pressure Chart on page 269







## HOSE & CHEMICAL TABLE

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Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Nitric Acid, Anhydrous						X							X	X	X				
Nitric Acid, Conc (16N)	X	X	X	X	X		E	E		X	X	X	X			X	X	E	G
Nitric Acid, Red Fuming	X	X	C	X	X		E	C		X	X	X	X			X	X	X	X
Nitrioltriethanol		E	G	X	E		E	X		G	C		X			G			
Nitrobenzene	C	X	G	X	X	X	E	C		X	X	C	X	X	X	X		E	X
Nitroethane		C	G	C	G		E	X		G	X		X			G	E	E	E
Nitrogen		E	E	E	E		E	E	E	E	E	E	E			E		E	E
Nitrogen Tetraoxide		X	X	X	X		E	X		X	X					X		X	X
Nitromethane		C	G	X	G		E	X		G	X	E	X			C		E	E
Nitropropane		C	E	C	G		E	X	E	C	X					C		E	E
Nitrous Oxide Gas		E	E	G	E		E	E	E	E	E	C	G			E		E	E
N-Nonyl Alcohol		E	E				E	G		E	E								
Nonanoic Acid		X	E				E			X	E								
N-Serv							E	E				E							C
Nuto H					X		E				E	E							
Nyvac Light					E		E				X	E							
Octadecanoic Acid		X	G	G	C		E	C	E	X	E					X		E	E
Cis-9-Octadecenoic Acid	X	G	X	C	C		E	E		X	E	E	G			X			E
Octane		X	X	G	X		E	E	G	X	E					X		G	G
N-Octane		X	X	C	X		E	E		X	E		X			X		G	E
Octanoic Acid		G	C				E			C	C								
2-Octanone		X	G	X	G		E	X		X	X		X			X			
Octyl Acetate		E	E				E	X		X	X							E	
Octyl Alcohol		G	G	G	G		E	G		G	G		X			G		E	E
Octyl Aldehyde		X	C				E	X		X	X								E
Octyl Amine		C	E				E	X		C	C								C
Octyl Carbinol		E	E				E	G		E	E								E
Octylene Glycol		E	E	E	E		E	E	E	E	E							E	C
Oil, Petroleum	G	G	X	G	X	G	E	E		X	E	G	G	E	E	X	C	E	E
Oils & Fats						G							E	E	E				
Oleic Acid	X	G	X	C	C	X	E	E		X	E	E	G	G	G	X		E	E
Oleum	X	X	X	X	X	X	E	G		X	X	X	X	X	X	X		X	X
Olive Oil		G	G	G	G		E	E	E	X	E	E	E			X		G	C
Orange Juice														E					
Orthoxylene	C	X	X	X	C		E	E		X	X	G	X			X	X		X
Oxalic Acid	X	E	E	G	E	G	E	E		C	G	E	C	E	E	G	E	C	C
Oxydiethanol	E											X							E
Oxygen						G							E	E	E				
Oxygen, Cold		G	E	E	E		E	E	E	G	C					C		E	E
Oxygen, Hot		X	E	E	E		E	E		G	C					C		E	E
Ozone		E	G	C	E	X	E	E		X	X	C	E	C	C	X		G	C
Paint Thinner		X	X	X	X		E	G	G	X	X	G	X			X		E	E
Palm Oil		G	E	G	G		E	E	E	X	E					X		E	E
Palmitic Acid	G	C	G	G	G		E	E		E	E	C	E			G	E	E	G
Palmitic Acid, 10%						E							X	E	E				
Palmitic Acid, 70%						C							X	C	C				
Papermakers Alum		E	E	E						E	E								
Para Methoxypropenyl Benzene	X	X	X				E	G		X		G							
Paraffin		X	X	E	X	C	E	E	E	X	E		E	E	E	X		X	X
Paraffin Wax		X	X	G	X			E		X	E	E	G			E		E	X
Paraformaldehyde		G	G	G	G		E	C		D	G					X		E	E
Paraldehyde		X	E	C	E		E	X		C	C								E
Paraxylene		X	X	X	X		E	E		X	C	E	C						X

\*\*\*Refer to the PVC Temperature/Pressure Chart on page 269

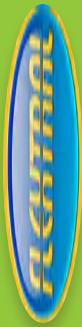
# HOSE & CHEMICAL TABLE

**Key: E = Excellent • G = Good • C = Conditional • Blank = No Data • X = Not Recommended**

Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Peanut Oil		G	C	G	X		E	E	F	X	E					X		E	E
Pelargonic Alcohol		E	E				E	G		E	E								E
Pentachloroethane		X	X	X			E	E		X	X								E
Pentadione	G																		
Pentamethylene		X	X	E	X		E	E		X	G								
Pentane		C	X	C	X		E	E		X	E	G	C	C	C	X		G	G
Pentanol		E	E	E	E		E	G		E	E		C						
Pentanone		X	G	X	G		E	X		X	X								E
4-Hydroxy-4-Methyl-2- Pentanone		C	E	C	E		E	X		C	X	G	X			C			E
Pentasil		E	E	E	E		E	G		E	G		X			G			E
Pentyl Acetate		X	G	X	E		E			X	X	G	X			X	X		
Pentyl Alcohol	E	E	E	E	E		E	E		E	G	E	X			E	E		
Pentyl Bromide							E	G											
Pentyl Chloride	C	X	X	X	X		E	E		X		E	C			X			G
Pentyl Ether		C					E				C								
Pentylamine		C	G	X	X		E	X		C	C								
2,4-Di-Sec-Pentylphenol	E																		
Peracetic Acid, 40%													X	X	X				
Perchlorethylene														X	X				
Perchloric Acid		E	G	E	G		E	E	B	G	X					X		E	E
Perchloric Acid, 10%						G							X	G	G				
Perchloric Acid, 70%						G							X	C	C				
Perchloroethylene	C	X	X	X	X		E	E		X	C	E	X			X	X	G	X
Perchloromethane			X	X			E			X	X								
Petrol						X								X	X				
Petrolatum		C	X	E	X			E		X	E					X		E	E
Petroleum Crude		G	X	G	X		E	E		X	E	G	E			X		E	G
Petroleum Ether		X	X	C	X	X	E	E		X	E	E	G	C	C	X		E	C
Petroleum Oils	G	G	X	G	X		E	E		X	E	G	G			X	C	E	C
Phenbo													X					E	
Phenol		X	G	X		X	E	E		X	X	X	X	X	X	X	X	E	C
Phenolsulfonic Acid		X	C				E	X		X	X		G					G	G
Phenylamine		X	E	X	G		E	E		X	X		C						
Phenylbromide		X	X	X	X		E	G		X	X		X						
Phenylbutane	C																		
Phenylchloride		X	X	X	X		E	E		X	X		X						E
Phenylethylene		X	X	X	X		E	G		X	X		C			X			
Phenylhydrazine		C	G	X	C			E		C	X			X	X	X		E	E
Phenylhydrazine Hydrochloride														C	C				
Phenylmethane		X	X	X	X		E	E		X	X		X						
Phenylmethanol		G	G	X	G		E	E		X	X	C	X			X	X	E	E
Phenylmethyl Acetate		G	E				E	X		X								E	E
Phorone		X	E	X	G		E	C	E	X	X					X		E	E
Phosgene, Gas						C								C	C				
Phosgene, Liquid														X					
Phospahte Esters	G	X	E	X	E		E	C		X	X	E	X			X	E		
Phosphoric Acid, 10%	X	E	G	E	E	E					E		X	E	E	G			
Phosphoric Acid, 10%-85%	X	E	G	E	E	E	E	E		G	X	X	X			G		E	E
Phosphorous Pentoxide						G								C	C				
Phosphorous Trichloride		X	E	X	E	C	E	E		X	X			X	X	X		E	E
Phosphorus, Yellow						X								G	G				
Photographic Developers						E							C	C	C				
Photographic Emulsions						E								C	C				

\*\*\*Refer to the PVC Temperature/Pressure Chart on page 269





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Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Photographic Fixers						F								C	C				
Di(2Ethylhexyl) Phthalate		X	G	X	G		E	G		X	X	E	X			X			
Pickling Solution		C	C	C	C		E	G	G	C	C					C		E	E
Picric Acid						G							X	X	X				
Picric Acid, H2O Solution	X	E	C	C	C					C	C					G			
Picric Acid, H2O Solution							C	E			X	G					X		E
Picric Acid, Molten		G	C	C	C		E	C	G	C	C					C		X	X
Pine Oil		X	X	X	X		E	E		X	G		E			X		E	X
Pinene		X	X	X	X		E	E		X	G		G			X		E	E
Piperidine		X	X	X	X		E	X	C	X	X					X		G	G
Pitch		C	X	G	X		E	C	G	X	G		G	G	G	X		E	E
Plating Solution, Brass						C							E	E	E				
Plating Solution, Cadmium						C							E	E	E				
Plating Solution, Chrome		C	E	G	E		E	G	E	X	G					X		E	E
Plating Solution, Chromium						X							G	G	G				
Plating Solution, Copper						C							E	E	E				
Plating Solution, Gold						C							E	E	E				
Plating Solution, Judium						C							E	E	E				
Plating Solution, Lead						C							E	E	E				
Plating Solution, Nickel						C							E	E	E				
Plating Solution, Rhodium						C							E	E	E				
Plating Solution, Silver						C							E	E	E				
Plating Solution, Tin						C							E	E	E				
Plating Solution, Zinc						C							E	E	E				
Poly Chlorinated Biphenol							E	E											
Polyethylene Glycol	E	E	E	E	E		E	E	E	E	E					E		E	E
Polyol Ester				G								G	X						
Polypropylene Glycol		E	E				E	E		E	E								
Polyvinyl Acetate Emulsion (PVA)		G	E	G	E		E	C		C	C					C		E	E
Potassium Acetate		C	E	G	E		E	C		E	G	G	X			X		E	E
Potassium Acid Sulfate						G							E	E	E				
Potassium Antimonate						E							E	E	E				
Potassium Bichromate						E							E	E	E				
Potassium Bisulfate		E	E	E	E		E	E		E	E	G				G		E	E
Potassium Bisulfite		E	E	E	E	E	E	E		E	E	G	E	E	E	G		E	E
Potassium Bisulphate						E								G					
Potassium Borate, 1%						E							E	E	E				
Potassium Bromate, 10%						E							E	E	E				
Potassium Bromide						E							E	E	E				
Potassium Carbonate		E	E	E	E	E	E	E	E	E	E	E	C	E	E	E		E	E
Potassium Chlorate						E							G	E	E				
Potassium Chloride	G	E	E	E	E	E	E	E		E	E	E	E	E	E	E		E	E
Potassium Chromate		C	G	E	E		E	E		G	E	G	G			G		E	E
Potassium Chromate, 40%						E							G	E	E				
Potassium Cuprocyanide						E								E	E				
Potassium Cyanide	G	E	E	G	E	C	E	E		E	E	E	E	C	C	E		E	E
Potassium Dichromate	X	E	E	E	E		E	E		C	E	G	G			G		G	G
Potassium Dichromate, 49%						E							G	E	E				
Potassium Ferricyanide						E							E	E	E				
Potassium Fluoride						E							E	E	E				
Potassium Hydrate		E	E	G	G		E	C		G	G	G	G			G		E	E
Potassium Hydroxide	X	E	G	G	E		E	G		G	G	G	C			G	G	E	E
Potassium Hydroxide, 10%						E							C	E	E				

\*\*\*Refer to the PVC Temperature/Pressure Chart on page 269

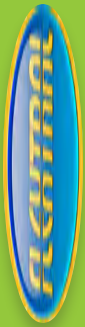
## HOSE & CHEMICAL TABLE

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Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Potassium Hydroxide, 20%						F							X	F	F				
Potassium Hydroxide, 35%						G							X	F	F				
Potassium Hypochlorite						F							X	G	G				
Potassium Nitrate		E	E	E	E	E	E	E		E	E	E	E	E	E	E		E	E
Potassium Perborate						F							E	F	F				
Potassium Perchlorate						G							G	F	F				
Potassium Permanganate		X	E	X	E		E	E	E	X	X					X		E	E
Potassium Permanganate, 10%						X							G	G	E				
Potassium Permanganate, 5%		G	E	E	E		E	E		E	C	X	X			G		E	G
Potassium Persulfate						E							E	E	E				
Potassium Phosphate						E													
Potassium Silicate		E	E	E	E		E	E		E	E	G	E			E		E	E
Potassium Sulfate		E	E	E	E	E	E	E		E	E	E	E	E	E	G		E	E
Potassium Sulfide		E	E	E	E	E	E	E		G	E	E	E	E	E	G		E	E
Potassium Sulfite		E	E	E	E		E	E		G	E	E	E			G		E	E
Potassium Thiosulfate						E							E	E	E				
Power Steering Fluid													E	E	E				
Prestone Antifreeze							E	E				G	X				E	E	E
Producer Gas		G	X	G	X		E	E		X	E		E			X			
Propane						X							C	C	C				
Propanediol		E	C	C	E		E	E		E	E		G			E			
Propanetriol	E	E	E	E	E	E	E	E		E	E	G	C			E	X	E	E
Propanol (Propyl Alcohol)						E	E	E				E	X	E	E		E	E	E
1-Amino-2-Propanol		C	E				E	X		G	G								
Propanolamine	E																		
Propanone	G	X	E	X	E		E	X		C	X	E	X			C	E	E	C
Chloro-2-Propanone		X	X	C	E		E	X		X	X		X			X			
Propargyl Alcohol						E								E	E				
Propen-1-ol							E	G										E	E
Propenediamene	E																		
Propenenitrile			X	X			E			G	X								
Propenyl Alcohol		E	E	E	E		E	G		E	E							E	E
Propenylanisole		X	X				E	G		X	X								
Propionic Acid		G	E	C	E		E	X		E	C		X			X			E
Propionitrile			E	G	E		E	X		E	X						X		
Propyl Acetate		X	G	X	E		E	X		X	X		X			X		E	E
Propyl Alcohol (Propanol)		E	E	E	E	E	E	E		E	E	E	X	E	E	E	E	E	E
Propyl Aldehyde		X	G				E	X		C	X							E	E
Propyl Benzene	C																		
Propyl Chloride		X	C				E	G		X	X							E	E
Propyl Ether	E																		
Propyl Nitrate		X	G	X	G		E	X		X	X		X			X			
Propylene		X	X	X	X		E	E		X	X		X			X			
Propylene Diamine		C	E				E			G	G								
Propylene Dichloride		X	X	X	X	X	E	G		X	X		X	X	X	X		G	G
Propylene Glycol	E	E	E	E	E	E	E	E		E	E	G	X			E	X	E	E
Prune Juice														E					
Pydraul Hydraulic Fluids		D	G	D	G		E	C	E	X	X	G	X			X		G	G
Pyranol		X	X	X	X			E		X	C					X		E	E
Pyridine		X	G	X	G		E	X	G	X	X					X		E	E
Pyroligneous Acid		G	G	G	G			E		C	C					C		E	E
Pyrrole		X	G	X	C			C		C	X					G		E	E
Quintolubric 822 Series			X	X	X			G		X	G								

\*\*\*Refer to the PVC Temperature/Pressure Chart on page 269





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Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Rape Seed Oil		G	E	G	G		E	E	F	X	G					X		G	G
Red Oil	X	G	X	C	C		E	E		X	E	E	G			X		E	C
Resorcinol				X	G		E	E				X	X			G	X		E
Rosin Oil		G	X	E	X			E		X	E					X		E	E
Rotenone And Water		E	E	E	E			E		E	E					E		E	E
SAE Oil #10	G	X	X	C	X		E	E		X	E	E	E			X	X		C
Salicylic Acid		E	E	X	E	E	E	E	E	E	X					G		E	E
Sea Water		E	E	G	E	E	E	E	E	E	E	E	C	E	E	E	E	E	E
Selenic Acid						G							X	E	E				
Sewage		E	G	G	E		E	E		G	E	G	X			G	G	X	E
Shortening G						E								G					
Silicate Esters		G	C	E	X		E	E		X	G	G	E			X		C	
Silicate of Soda		E	E	E	E		E	E		E	E	E						E	E
Silicic Acid						E							X	E	E				
Silicone Fluids						E													
Silicone Grease		E	E	E	E		E	E		E	E	E	E			E		G	E
Silicone Oil		E	E	E	E		E	E		C	E	E	E			E		E	E
Silver Cyanide						E							E	E	E				
Silver Nitrate		E	E	E	E	E	E	E		E	G	E	E	E	E	E		E	E
Silver Plating Solutions						E							E	E	E				
Skelly Solvent		C	X	G	X			E		X	E					X		E	E
Skydrol Hydraulic Fluids		X	E	X	E		E	X	E	X	X					X		E	E
Soap Solutions	G	E	G	G	E	G	E	E		G	E	E	E	E	E	G	E	E	E
Soda Ash	G	E	E	E	E		E	E		E	E	G	G			E		E	E
Soda Lime		G	E	G	E		E	G		E	G		C					E	E
Soda, Caustic	C	E	E	E	E		E	X		G	C	G	G			E	C	E	E
Sodium Acetate		C	E	G	E	E	E			E	G	G	X			X		E	E
Sodium Acid Sulfate						E							E	E	E				
Sodium Aluminate		E	E	E	E		E	E		G	E	G				G		E	E
Sodium Antimonate						E							E	E	E				
Sodium Arsenite						E							E	E	E				
Sodium Benzoate						E							E	E	E				
Sodium Bicarbonate		E	E	E	E	E	E	E		E	E	E	E	E	E	E		E	E
Sodium Bisulfate	X	E	E	E	E	E	E	E		E	G	C	E	E	E	G		E	E
Sodium Bisulfite		E	E	E	E	E	E	E		E	E	E	E	E	E	G		E	E
Sodium Borate		E	E	E	E		E	E		E	E	E	G			E		E	E
Sodium Bromide						E							E	E	E				
Sodium Carbonate	G	E	E	E	E	E	E	E	E	E	E	G	G	E	E	E		E	E
Sodium Chlorate						E							G	G	G				
Sodium Chloride	G	E	G	E	E	E	E	E		E	E	E	E	E	E	E	C	E	E
Sodium Chromate		C	E	C	G		E	C		X	X					X		G	G
Sodium Cyanide	G	E	E	E	E	E	E	E		E	E	E	G	E	E	E		E	E
Sodium Dichromate		G	E	G	C	E	E	E		C	E	G	G	E	E	G		E	E
Sodium Ferrocyanide						E							E	E	E				
Sodium Fluoride		E	E	E	E	E	E	E	E	E	E		E	E	E	E		E	E
Sodium Hydrate		G	E	G	E		E	G		E	G	G	C			G			E
Sodium Hydrochlorite		E	G	C	G		E	E		C	C	G	C			G			E
Sodium Hydroxide	C	E	E	G	E		E	C		E	C	G	C			G	C	E	E
Sodium Hydroxide, 10%						E							G	E	E				
Sodium Hydroxide, 35%						E							C	E	E				
Sodium Hydroxide, 50%													G						
Sodium Hypochlorite	X	G	G	C	G	E	E	C		X	X	X	C	E	E	C	C	E	G
Sodium Metaphosphate		G	G	G	E		E	E		E	E	E	G			E		G	E

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Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Sodium Nitrate	G	E	E	G	E	E	E	E		G	G	E	G	E	E	G		E	E
Sodium Nitrite		E	E	E	E	E	E	E	E	E	E		E	E	E	E		E	E
Sodium Perborate	X	G	E	G	E		E	E		G	G	G	G			G		E	E
Sodium Peroxide	X	G	E	G	E		E	E		G	G	X	X			G		E	E
Sodium Phosphate		E	E	C	E		E	E		E	E	E	E			E		E	E
Sodium Phosphate, Acid						E							U	G	G				
Sodium Silicate	G	E	E	E	E	E	E	E		E	E	E	G	E	E	E		E	E
Sodium Sulfate	G	E	E	E	E	E	E	E		G	E	E	E	E	E	G		E	E
Sodium Sulfide	G	E	E	E	E	E	E	E		G	E	E	E	E	E	G		E	E
Sodium Sulfite		E	E	E	E	E	E	E		G	E	E	E	E	E	G		E	E
Sodium Thiosulfate		E	E	E	E	E	E	E		E	E	G	E	E	E	G		E	E
Soft Drinks						G								E					
Soya Oil														E					
Soybean Oil	G	E	C	E	X		E	E		X	E	E	G	G		X		E	E
Stannic Chloride	X	C	G	C	E	E	E	E		G	E	C	G	E	E	E		E	E
Stannic Sulfide		E	E				E			E	E								E
Stannous Chloride		E	G	E	C	E	E	E		E	E	G	C	E	E	E		E	
Stannous Sulfide		E	E				E			E	E								E
Starch						E													
Stearic Acid	G	C	G	G	G	E	E	E		C	E	E	E	C	C	G	E	E	E
Stoddard Solvent	G	X	X	C	X	C	E	E		X	E	E	G	C	G	X	X	E	E
Styrene Monomer		X	X	X	X		E	G		X	X	E	C			X		G	G
Sugar Solutions		E	E	E	E	E	E	E	E	E	E					E		E	E
Sulfamic Acid		E	E	G	X		E	E		G	C		X						C
Sulfite Liquors		E	E	G	G		E	E		G	G					G		E	E
Sulfonic Acid		C	X	C	X		E	X		X	X					X		G	G
Sulfur		F	F	X	F		E	G		X	X			G	G	X		E	X
Sulfur, Molten		E	E	E	E					G	G					G			
Sulfur Chloride	G	C	X	C	X		E	E		X	C	C	C			X		E	E
Sulfur Dioxide		C	G	X	E		E	E		C	X	X				C		G	C
Sulfur Dioxide Gas, Dry						E								E	E				
Sulfur Dioxide Gas, Wet						E								C	C				
Sulfur Dioxide, Liquid						X								C	C				
Sulfur Hexafluoride		E	E	E	E		E	E	E	E	E					E		E	E
Sulfur Trioxide		B	C	C	C		E	E	G	X	C					C		D	G
Sulfur Trioxide, Dry		C	G	X	G		E	E		C	X	X	G			X		X	G
Sulfur, Molten							E	E										E	C
Sulfuric Acid, 1%-60%						G								E	E				
Sulfuric Acid, 70%						C								E	E				
Sulfuric Acid, 95%						X								X	X				
Sulfuric Acid, 95% Fuming						X								C	C				
Sulfuric Acid, 25%	X	E	G	E	E		E	E		G	E	X	X			G	E	E	E
Sulfuric Acid, 25%-50%	X	G	G	E	E		E	E		G	E	X	X			G		E	E
Sulfuric Acid, 50%-96%	X	C	X	C	G		E	E		X	C	X	X			X		E	E
Sulfuric Acid, 60% (200°F)	X		X	X	X			C			X	X				X		X	X
Sulfuric Acid, Conc. 96%-98%	X	X	X	X	X		E	G		X	X	X	X			X		E	C
Sulfuric Acid, Fuming	X	X	X	X	X		E	G		X	X	X	X			X		X	X
Sulfurous Acid, 10%	X	E	E	G	E	E	E	E		G	C	X				G		E	E
Sulfurous Acid, 10%-85%	X	E	E	C	G		E	G		G	C	X	X			C		X	E
Sulfurous Acid, 30%						X													
Sulphur Trioxide						X								E	E				
Sutan							E	F											E
Tall Oil		C	X	C	X		E	E		X	E		E			X		E	G

\*\*\*Refer to the PVC Temperature/Pressure Chart on page 269



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Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Tallow		C	G	G	E	E	E	E		C	E	E	E			X		E	E
Tannic Acid	X	E	E	E	E	E	E	E		E	E	G	E	E	E	G	E	E	E
Tanning Extracts						E													
Tanning Liquors						C								E	E				
Tar, Bituminous	G	C	X	C	X		E	E	E	C	G	G	G			X		E	E
Tar, Camphor	C	X	X	X	X		E	E	E	X	X	E	G			X	C	E	X
Tartaric Acid	X	E	G	E	C	E	E	E		E	E	E	E	E	E	G	E	E	E
Tea, Brewed						G								E					
Telone 2																			E
Terpinol	E	X	C	X	C		E	E	E	X	G	G	G			X		G	G
Tertiary Butyl Alcohol		G	G	G	G		E	E		G	G		X			G		E	E
Tertiary Butyl Amine		X			G														
Tertiary Butyl Mercaptan		X	X	X	X		E	E		X	X		X			X			
Tetrachlorobenzene		X	X				E	G		X	X		G						G
Tetrachloroethane		X	X	X	X		E	E		X	X		X			X	C	C	
Tetrachloroethylene		X	X	X	X		E	E		X	C	E	X			X		G	X
Tetrachloromethane		X	X	X	X		E	E		X	X	E	C					C	X
Tetrachloronaphthalene		X	X				E	G		X	X								G
Tetraethyl Lead		X	X	C	X		E	E	G	X	G		G	G	G	X		E	E
Tetraethylene Glycol		E	E				E	E		E	E								
Tetraethylorthosilicate			E	X			E			X	X								
Tetrahydrofuran (THF)		X	G	X	X		E	X		X	X	G	X			X	X	C	X
Tetrahydrofurane						X							X	X	X				
Thionyl Chloride		X	X	X	X	X	E	G		X	X		X	X	X	X		E	
Tin Chlorides		E	G	C	E		E	E		E	E	C	G	E	E			E	E
Tin Tetrachloride		E	E	E	E		E	E	E	E	E					E		E	E
Titanium Tetrachloride		X	X	X	X		E	E		X	C		X	E	E	X		G	X
Titanium Trichloride						X													
Toluene	C	X	X	X	X	X	E	E		X	X	E	X	X	C	X	X	E	X
Toluene Diisocyanate (TDI)		X	E	X	E		E	G		C	C					C		E	E
Toluidine		X	X				E	G		X	X								
Tomato Juice						C								E					
Toxaphene		X	X	G	X			E		X	G					X		E	E
Transformer Oils, Chlorinated Phenyl Base Askerels		X	X	X	X		E	E	G	X	X					X		G	G
Transformer Oils, Petroleum Base		G	X	G	X		E	E	E	X	E		E			X		E	E
Transmission Fluid													E	E	E				
Transmission Fluids, A		X	X	C	X		E	E	E	X	G	G	E			X		A	A
Transmission Fluids, B		X	X	X	X			E		X	C					X		A	A
Tri (2-Hydroxyethyl) Amine		E	G	X	E		E	X		G	C		X			G			
Tributyl Amine		C	E				E			G	G								
Tributyl Phosphate		X	G	X	E		E	X		C	X	G	X	X	X	X		E	E
Tricetin		G	E	G	E			X		E	G					G		E	E
Trichloroacetic Acid		C	G	X	G		E	X		C	C	X	X			X		E	E
Trichlorobenzene		X	X	X		X	E	G		X	X		X	X	X	X			
Trichloroethane		X	X	X	X		E	E		X	X	E	X			X			
Trichloroethylene	C	X	X	X	X	X	E	E		X	X	G	X	X	C	X	X	C	X
Trichloromethane	X	X	X	X	X		E	E		X	X	C	X			X	X	C	C
Trichloropropane		X	X	X	X		E	E		X	X					X		E	E
Trichlorotoluene							E				X								
Tricresyl Phosphate (TCP)		X	E	C	E	X	E	E		C	X	G	X	X	X	X		E	E
Triemethyl Propane														C	C				
Triethanolamine		E	G	X	E	C	E	X		G	C	E	X	C	G	G		E	E
Triethylamine			C	G	E		E	E		G	E	E	X	G	G	X			

\*\*\*Refer to the PVC Temperature/Pressure Chart on page 269

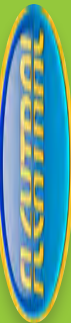


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Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Triethylene Glycol		E	E				E	E		E	E								E
Trihydroxybenzoic Acid		G	G	G	G		E	E		E	G	G	X			G		G	
Trimethyl Pentanes, Mixed	E	C	X	C	X		E	E		X	E	E	G			X	X	E	
Trimethyl Pentene	E											E						E	
Trimethylamine	E						E											E	E
Trinitrotoluene (TNT)		G	X	G	X			G		X	X					X		X	X
Triphenyl Phosphate		C	E	C	G		E	C		X	X					X		E	E
Trisodium Phosphate		E	E	E	E					E	E					E			
Tritoyl Phosphate		X	E	X	E		E	E		X	X	G	X			X		E	
Tung Oil	C	E	X	E	X		E	E		X	E	G	C			X		E	E
Turbine Oil		G	X	G	X			E		X	G					X		E	E
Turpentine		X	X	X	X	X	E	E		X	G		E	C	G	X		G	E
Ucon Hydrolube Oils		X	E	G	E		E	E	E	X	E					X		E	E
UDMH		E	E	G	E		E	X		E	G		X			X		C	C
1 Undecanol		E	E	E	E		E	G		E	E					E			E
Undecyl Alcohol		E	E	E	E		E	G	E	E	E					E		E	E
Uran		E	G	G	G			C		G	G					C		E	E
Urea		E	E	G	E	E	E	E		E	G	E	G	E	E			E	E
Urethane Formulations							E				E	E							
Uric Acid							E					G	X				E		E
Urine						E							E	E	E				
Varnish	C	X	X	X	X	X	E	E		X	G	E	C	X	X	X		E	
Vegetable Oils		G	C	C	C	X	E	E		X	E	G	E	G	G	X		E	G
Versilube F44		E	E	E	E		E	E		E	E	E	E			E			
Versilube F55		E	E	E	X		E	E		E	E	E	E			E			
Vinegar		E	E	G	E	E	E	E		G	G	C	C	E		G		E	E
Vinegar Acid	G																		
Vinyl Acetate		C	E	X	G	X	X	E		X	X		X	X	X	X		E	E
Vinyl Benzene		X	X	X	X		E	G		X	X		C			X		E	G
Vinyl Chloride														X	X				
Vinyl Chloride, Gas			X		G		E			G		E						C	E
Vinyl Cyanide	E	C	X	C	X		E	C		C	X	E	X			C	X		
Vinyl Ether		G	X				E	X		X	G							E	E
Vinyl Styrene		X	X				E	E		X						X		E	E
Vinyl Toluene		X	X				E	E		X	X							E	E
Vinyl Trichloride		X	X	X			E	E		X	X							E	E
Vital, 4300, 5310					X		E				X	E							
VM&P Naphtha		X	X	C	X		E	E		X	C								X
Water	G	E	E	G	E		E	E	E	E	E	E	E			G	E	E	E
Water, Acid						E							G	E	E				
Water, Boiling		E	E	G	E		G	G			G	X	G			G	G	X	X
Water, Demineralized						E							E	E	E				
Water, Detergent Solution		E	E	G	E		E	E	G	G	E	E	G			G		E	E
Water, Distilled						E							E	E	E				
Water, Fresh						E	E	E	E				G	E	E			E	E
Water, Potable						E								E					
Water, Salt		G	E	E	E	E	E	E	E	E	G		G	E	E	G		E	E
Water, Soda							E					E					E	E	E
Wemco C		X	X	G	X					X	E					X			
Whey						G								E					
Whiskey		E	E	E	E		E	E		E	E	E	X	C		E		E	E
White Gasoline						X							E	E	E				
White Liquor		E	G	E	C			E		E	E			E	E	E		E	E

\*\*\*Refer to the PVC Temperature/Pressure Chart on page 269





## HOSE & CHEMICAL TABLE

**Key:** E = Excellent • G = Good • C = Conditional • Blank = No Data • X = Not Recommended

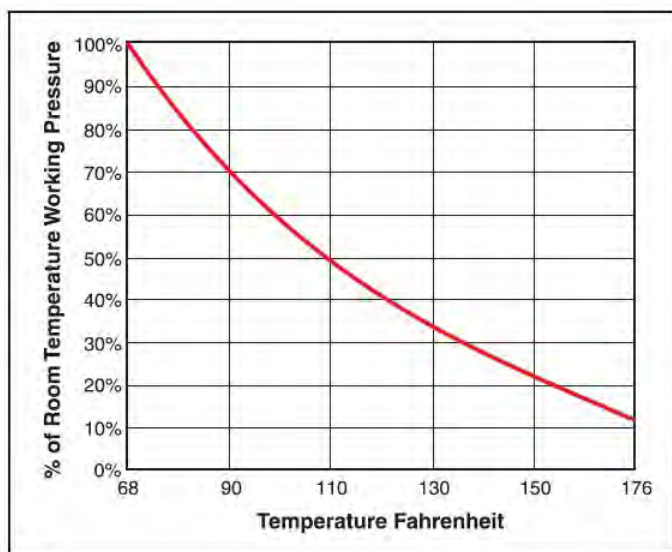
Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
White Oil		X	X	G	X		E	E		X	E		E			X		E	X
White Pine Oil		X	X	X	X			E		X	G					X			
Wines		E	E	E	E		E	E		E	E	E	X	G		E		E	G
Wood Alcohol		E	E	E	E		E	C		E	E		X			E		E	E
Wood Oil		C	C	G	X		E	E		X	E	G	C			X		E	E
Xenon		E	E	E	E		E	E		E	E		E			E			
Xylene, Xylol	C	X	X	X	X	X	E	E		X	X	G	C	X	C	X	X	C	X
Xylidine		X	G	X	C		E	C		X	C					X		G	G
Zeolites		E	E	E	E			E		E	E					E			
Zinc Acetate		C	E	G	E		E	C		E	G	X	X			X			E
Zinc Carbonate		E	E	E	E		E	E		E	E		E					E	E
Zinc Chloride	X	E	E	E	E	E	E	E		E	E	C	G	E	E	E		E	E
Zinc Chromate		C	E			E	E						E	E	E				G
Zinc Cyanide						E							E	E	E				
Zinc Nitrate						E							E	E	E				
Zinc Sulfate	X	E	E	E	E	E	E	E		E	E	E	G	E	E	G		E	E

\*\*\*Refer to the PVC Temperature/Pressure Chart on page 269

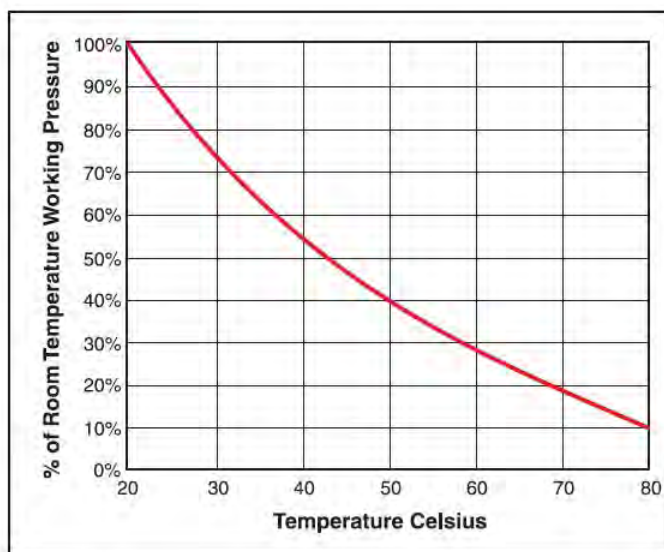


## Effects of Elevated Temperatures on PVC / Thermoplastic Hose and Tubing

Thermoplastic hose and tubing achieve their optimum physical properties at room temperature, +68°F (+20°C). As thermoplastic materials are exposed to increased ambient temperatures, they soften and their physical properties change. For hose and tubing, heat sharply reduces the available working pressure and coupling retention. The charts below illustrate this effect. In all cases, test the product in a controlled, secure and safe environment, and consider all operating conditions prior to use.



Example from the Fahrenheit Chart  
If Working Pressure at +68°F is 200 PSI, then the WP at +110°F is 200 x 50%, or 100 PSI.



Example from the Celsius Chart  
If Working Pressure at +20°C is 14 bar, then the WP at +50°C is 14 x 40%, or 5.6 bar.



## CORROSION RESISTANCE OF COUPLING MATERIAL

## CAUTION

The following data has been compiled from generally available sources and should not be relied upon without consulting and following the specific recommendations of the manufacturer regarding particular coupling materials.

## RATINGS

Metal
1 = Excellent
2 = Good
3 = Fair
X = Not Recommended
- = Contact Factory

Non-Metal
A = Acceptable
X = Not Recommended
- = Contact Factory

Gasket/Seal Material
T = PTFE
V = Viton®
E = EPDM, EPR
N = Neoprene
B = Buna N

## NOTE:

(1) Ratings given are based at +70°F. Chemical compatibility varies greatly with temperature. For applications at temperatures other than +70°F, contact the Factory for recommendations.

(2) Gasket / seal materials are not necessarily listed in order of preference.

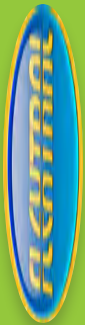
(3) Chemical resistance of a material does not necessarily indicate the suitability of a fitting in a given application due to variables such as improper clamp and coupling application, special hose construction, gasket material, etc.

*Special caution should be taken when handling hazardous materials.*

## TECHNICAL INFORMATION

AGENT	Aluminum	Brass	Bronze	Hastelloy, C-276	Malleable Iron Carbon Steel	Monel	Stainless Steel, 304	Stainless Steel, 316	Nylon	Polypropylene	Seal Material
Acetate Solvents (Crude)	1	X	X	1	2	2	1	1	A	X	T
Acetate Solvents (Pure)	1	1	1	1	X	1	1	1	A	X	T
Acetic Acid (80%)	3	X	X	1	X	1	1	1	X	X	TEVNB
Acetic Acid (50%)	2	X	X	1	X	2	2	1	X	X	TEVNB
Acetic Acid (20%)	2	X	X	1	X	2	2	1	X	X	TEVNB
Acetic Acid (10%)	2	X	2	1	X	2	1	1	X	X	TEVNB
Acetic Anhydride	2	X	2	1	2	2	2	2	X	X	TNB
Acetone	1	2	2	1	2	1	1	1	A	X	TE
Acetylene	1	X	X	2	2	2	1	1	X	X	TEVNB
Alcohols											
Amyl Alcohol	2	2	2	2	2	1	2	2	A	A	TEVNB
Benzyl Alcohol	2	2	2	2	2	1	1	1	X	A	TVB
Butyl Alcohol	1	2	1	2	2	1	1	1	A	A	TEVN
Diacetone Alcohol	1	1	2	1	2	1	2	2	X	A	TE
Ethyl Alcohol	1	2	2	1	2	2	2	2	X	A	TEVNB
Hexyl Alcohol	-	-	-	1	-	-	-	-	A	-	-
Isobutyl Alcohol	-	-	-	-	-	-	-	-	A	-	-
Isopropyl Alcohol	2	2	2	2	2	2	2	2	A	A	TEVNB
Methyl Alcohol (Methanol)	2	2	2	1	2	2	2	2	A	A	TENB
Octyl Alcohol	-	-	-	-	-	-	-	-	A	-	-
Propyl Alcohol	2	2	2	1	2	2	1	1	X	A	TEVNB
Aluminum											
Aluminum Chloride (Aqu.)	X	X	X	1	X	X	X	X	A	A	TEVNB
Aluminum Fluoride (Sat.)	2	-	-	-	X	2	X	2	X	A	TEVNB
Aluminum Nitrate (Sat.)	3	X	-	-	X	-	2	2	A	A	TEVNB
Aluminum Potassium Sulfate (Alum)	2	2	2	2	X	2	X	2	X	A	TEVNB
Aluminum Sulfate (Sat.)	X	X	2	2	X	2	-	2	A	A	TEVNB
Ammonia											
Ammonia Anhydrous	1	X	X	2	1	1	2	1	A	X	TENB
Ammonia Gas	X	X	X	1	1	X	1	1	A	X	TENB
Ammonia Nitrate	-	-	-	-	-	-	-	-	X	-	-
Ammonium											
Ammonium Bifluoride	-	X	-	2	X	2	-	-	X	A	TEVB
Ammonium Carbonate (Sat.)	2	X	X	2	2	2	2	2	A	A	TEVNB
Ammonium Casenate	-	-	-	-	-	-	-	-	A	-	-
Ammonium Chloride (Sat.)	X	X	2	2	X	2	X	X	A	A	TEVNB
Ammonium Hydroxide (Sat.)	2	X	X	2	1	X	2	2	A	A	TEVNB
Ammonium Nitrate	2	X	X	-	X	X	-	-	A	A	TENB
Ammonium Phosphate (10-40%)	X	X	X	-	X	2	1	2	A	A	TEVNB
Ammonium Sulfate (10-40%)	X	X	3	2	X	2	X	2	A	A	TEVNB
Aniline	-	X	2	2	X	2	1	1	X	X	TV
Arsenic Acid	X	X	2	2	X	X	2	2	X	A	TEVNB
Asphalt	-	-	-	-	2	-	-	2	X	X	TV
Barium											
Barium Carbonate (Sat.)	X	2	2	2	2	2	2	2	A	A	TEVNB
Barium Chloride (Sat.)	-	2	2	1	-	2	X	-	A	A	TEVNB
Barium Hydroxide (Sat.)	X	2	X	2	2	1	2	2	A	A	TEVNB
Barium Sulfate	2	2	2	-	X	2	2	2	A	A	TEVNB
Barium Sulfide	X	X	X	-	2	X	2	2	A	A	TEVNB
Beer	1	2	2	1	2	1	1	1	A	A	TEVNB
Benzaldehyde	2	2	2	2	X	2	2	2	X	X	TE
Benzene, Benzol	1	2	2	2	2	2	2	2	A	X	TV
Benzine	-	-	-	-	-	-	-	-	A	X	-





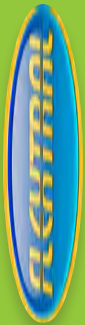
## TECHNICAL INFORMATION

AGENT	Aluminum	Brass	Bronze	Hastelloy, C-276	Malleable Iron Carbon Steel	Monel	Stainless Steel, 304	Stainless Steel, 316	Nylon	Polypropylene	Seal Material
Benzoic Acid	2	2	2	-	X	2	2	2	X	X	TVN
Black Liquor	X	X	X	X	-	2	2	2	X	A	TEVNB
Bleach (12.5% Active Chlorine)	X	-	-	1	X	-	-	X	X	A	TEVN
Borax	X	2	2	1	2	1	1	1	X	A	TEVNB
Boric Acid	1	X	2	1	X	2	-	-	X	A	TEVNB
Brine Acid	-	2	2	1	-	-	-	-	X	A	TEVNB
Bromic acid	X	X	X	-	-	X	-	-	X	A	TEVN
Bromine Liquid	2	-	-	-	-	-	X	X	X	X	TV
Butadiene, Butylene	2	2	2	2	2	1	2	2	X	X	TVNB
Butane	2	2	2	2	1	1	2	2	X	X	TV
Butyl Acetate	1	2	2	2	2	2	2	2	A	X	T
Butyric Acid	2	2	X	1	X	2	2	2	A	A	TV
<b>Calcium</b>											
Calcium Bisulfate	X	-	X	-	X	X	X	2	X	A	T
Calcium Bisulfide	-	-	-	-	-	2	-	2	A	A	TVB
Calcium Bisulfite	X	X	2	2	X	X	-	2	X	A	TVNB
Calcium Bromide	X	G	G	-	X	G	E	X	X	X	T
Calcium Carbonate	X	2	2	2	2	2	1	2	A	A	TEVB
Calcium Chloride (Sat.)	-	2	-	1	2	2	-	-	A	A	TEVNB
Calcium Hydroxide (Sat.)	X	2	X	-	2	2	2	2	A	A	TEVNB
Calcium Hypochlorite (Sat.)	X	X	X	-	X	X	X	2	X	A	TEV
<b>Carbon</b>											
Carbon Bisulfide	1	X	2	2	2	X	2	2	A	X	TV
Carbon Dioxide (Dry)	1	1	2	1	2	1	2	2	A	A	TENB
Carbon Dioxide (Wet)	1	X	-	2	3	-	2	2	X	A	TENB
Carbon Disulfide	1	X	2	2	2	X	2	2	A	X	TV
Carbon Monoxide	1	1	1	1	2	1	1	1	A	A	TEVNB
Carbon Tetrachloride	X	-	1	1	2	1	1	-	A	X	TV
Carbonic Acid	1	2	2	1	2	3	2	2	X	A	TEVNB
Castor Oil	2	2	2	1	2	1	2	2	X	A	TEVNB
Caustic Potash	X	-	-	1	X	-	-	2	A	A	TEVNB
Caustic Soda (see Sodium Hydroxide)											
Cellosolves	2	2	2	2	2	2	2	2	X	A	TE
Chlorine (Liquid)	-	-	-	1	2	2	-	3	X	X	TV
Chloroform	-	-	-	2	X	1	-	-	X	X	TV
Chlorosulfonic Acid	-	X	X	1	2	2	X	X	X	X	T
Clorox (Bleach, 5.5% CL)	X	-	-	-	X	-	-	2	X	-	TEVB
Chromic Acid (50%)	2	X	X	2	X	X	3	-	X	X	TVNB
Citric Acid	3	X	X	1	X	2	-	-	X	A	TEVNB
Coke Oven Gas	2	3	3	-	2	2	2	2	X	X	TEVN
<b>Copper</b>											
Copper Chloride	X	X	X	2	X	X	X	X	A	A	TEVNB
Copper Cyanide	X	X	X	1	-	X	2	2	X	-	TEVNB
Copper Sulfate	X	X	X	1	X	X	-	2	A	A	TEVNB
Crysylic Acid (Conc.)	2	2	X	-	2	3	2	2	X	X	TEV
Cyclohexane	2	2	2	2	2	1	2	2	A	X	TVB
Detergents	2	2	2	1	2	-	1	2	A	A	TEVNB
Dextrose	2	-	-	2	-	2	-	-	A	A	TEVNB
Diesel Fuels	1	1	1	2	2	-	1	1	A	X	TVB
Diethylamine	2	-	X	-	X	1	2	2	X	A	TN
Disodium Phosphate	-	-	-	-	1	-	-	1	A	A	TEV
Ethers	2	2	2	2	2	2	1	1	A	X	TB

## TECHNICAL INFORMATION

AGENT	Aluminum	Brass	Bronze	Hastelloy, C-276	Malleable Iron Carbon Steel	Monel	Stainless Steel, 304	Stainless Steel, 316	Nylon	Polypropylene	Seal Material
<b>Ethyl</b>											
Ethyl Acetate	-	-	2	2	2	2	2	2	A	X	T
Ethyl Chloride	-	-	2	2	2	2	-	1	A	X	TEVB
<b>Ethylene</b>											
Ethylene Chloride	-	-	-	-	2	2	-	-	A	X	TV
Ethylene Dichloride	-	2	X	2	2	1	2	2	A	X	TV
Ethylene Glycol	1	2	2	1	2	2	2	2	A	X	TEVNB
Ethylene Oxide	1	X	X	1	2	2	2	2	X	X	T
Fatty Acids	1	3	3	1	X	2	-	1	A	A	TVNB
<b>Ferric</b>											
Ferric Chloride	X	X	2	2	X	X	X	X	X	A	TEVNB
Ferric Hydroxide	-	-	-	1	-	2	1	1	A	-	TEVNB
Ferric Nitrate (10-50%)	X	X	X	-	X	X	2	2	X	A	TEVNB
Ferric Sulfate	X	X	X	-	X	2	-	-	X	A	TEVNB
<b>Ferrous</b>											
Ferrous Chloride (Sat.)	X	X	2	2	-	X	X	X	X	A	TEVNB
Ferrous Sulfate	2	2	2	2	X	2	2	-	X	A	TEVNB
Fluoboric Acid	X	-	-	1	1	2	-	-	X	A	TEVNB
Formaldehyde (50%)	-	2	2	2	X	2	1	1	X	A	TEN
Formic Acid (Anhyd.)	1	X	2	1	X	2	-	-	X	A	TEVN
<b>Freon</b>											
Freon 11	2	2	2	-	X	1	2	2	X	X	TVNB
Freon 12	2	2	2	1	X	2	2	2	X	X	TVNB
Freon 22	2	2	2	2	X	2	2	2	X	X	TN
Fruit Juices	2	2	3	1	X	1	2	2	A	A	TVNB
Fuel Oil	2	2	2	2	2	2	2	2	A	X	TVNB
Furfural	2	2	2	2	2	2	2	2	A	X	TEN
<b>Gasoline</b>											
Refined Gasoline	2	2	2	2	2	2	2	2	A	X	TVNB
Sour Gasoline	X	2	2	2	2	X	2	2	A	X	TVNB
Gelatin	2	2	2	-	X	2	2	2	A	A	TEVNB
Glucose	2	2	2	-	2	2	2	2	A	A	TEVNB
Glue	2	2	2	1	2	2	-	2	-	A	TEVNB
Glycerine	1	1	2	1	2	1	1	1	A	A	TEVNB
Glycols	2	2	2	-	2	2	2	2	A	A	TEVNB
Green Liquor	-	-	-	-	2	-	-	-	-	A	TEVNB
Heptane	2	2	2	1	2	2	2	2	A	X	TVNB
Hexane	2	2	2	1	2	2	1	1	A	X	TVNB
Hydrobromic Acid (50%)	X	X	X	2	X	X	X	X	X	A	TEV
Hydrobromic Acid (20%)	X	X	X	1	X	X	X	X	X	A	TEV
Hydrochloric Acid (20%)	X	X	X	1	X	3	X	X	X	A	TEVNB
Hydrochloric Acid (38%)	X	X	X	1	X	X	X	X	X	A	TEVN
Hydrocyanic Acid	2	X	X	2	2	2	2	2	X	A	TEVN
Hydrofluosilicic Acid (10-50%)	X	2	X	2	X	2	X	2	X	-	TEVNB
<b>Hydrogen</b>											
Hydrogen Peroxide (50%)	-	X	X	2	X	2	-	-	X	A	TEV
Hydrogen Sulfide (Aqu.)	-	-	-	2	-	2	X	2	X	A	TE
Hydrogen Chloride (Dry Gas)	X	2	-	1	2	1	-	-	X	A	TEVN
Hydrogen Gas	1	1	1	1	-	1	1	1	X	A	TEVNB
Hypochlorous Acid	X	X	X	2	X	X	X	X	X	X	TEV
Iodine	1	X	X	-	X	1	X	X	X	A	TEV
Isopropyl Ether	-	2	2	-	-	2	1	2	A	X	T
Jet Fuel (JP4, JP5)	2	1	2	1	2	2	2	2	X	X	TV





TECHNICAL INFORMATION

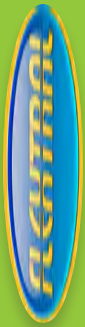
AGENT	Aluminum	Brass	Bronze	Hastelloy, C-276	Malleable Iron Carbon Steel	Monel	Stainless Steel, 304	Stainless Steel, 316	Nylon	Polypropylene	Seal Material
Kerosene	2	2	2	2	2	2	2	2	X	X	TVNB
Ketones	2	2	2	1	2	2	2	2	A	X	T
Lactic Acid (25%)	3	2	2	1	X	X	-	-	A	A	TEVN
Lactic Acid (80%)	2	2	X	2	X	-	-	-	A	A	TEVN
Lard Oil	2	-	2	1	3	2	2	2	A	A	TVB
<b>Lead</b>											
Lead Acetate	X	X	X	2	X	2	2	2	X	A	TENB
Lead Chloride	X	-	-	2	-	-	2	2	X	-	TVNB
Lead Sulfate	X	-	-	2	X	2	2	2	X	-	TEVNB
Lime Sulphur	X	X	X	-	X	2	2	2	X	A	TEVN
Linoleic Acid	2	X	3	2	X	2	2	2	X	A	TVB
Linseed Oil	2	2	2	2	2	2	2	2	A	A	TVNB
Lubricants (Oil)	2	1	-	-	2	2	2	2	A	X	TVNB
<b>Magnesium</b>											
Magnesium Carbonate	2	-	-	-	-	2	2	2	X	A	TEVNB
Magnesium Chloride	X	X	2	1	-	-	-	-	X	A	TEVNB
Magnesium Hydroxide	2	2	2	1	2	2	1	1	X	A	TEVNB
Magnesium Nitrate	2	2	2	1	2	2	2	2	X	A	TEVNB
Magnesium Oxide	-	-	-	-	-	-	-	-	X	-	-
Magnesium Sulfate	2	-	2	-	-	1	2	2	X	A	TEVNB
Maleic Acid	-	2	3	2	X	-	-	2	X	A	TEV
<b>Mercuric</b>											
Mercuric Chloride	X	X	X	-	X	X	X	-	X	A	TEVB
Mercuric Cyanide	X	X	X	2	X	2	2	2	X	A	TEVB
Mercury	X	X	X	1	2	-	1	1	A	A	TEVNB
Methane	1	1	2	1	2	1	1	1	A	X	TEVNB
Methanol	2	2	2	1	2	2	2	2	A	A	TENB
<b>Methyl</b>											
Methyl Bromide	X	-	-	-	2	-	2	2	X	X	TV
Methyl Ethyl Ketone	2	2	2	2	2	2	2	2	A	X	TE
Methyl Isobutyl Ketone	2	2	2	2	2	2	2	2	A	X	T
Methyl Methacrylate	2	-	-	-	X	-	2	2	X	A	T
Methylene Chloride	-	2	2	X	2	-	-	-	A	X	T
Milk	1	X	X	1	2	X	1	1	A	A	TEVNB
Mineral Oil	2	1	-	-	2	1	1	2	A	A	TVNB
Muriatic Acid	X	-	-	1	-	X	X	X	X	A	TV
Napthalene	2	2	2	2	2	2	1	1	A	A	TV
Naptha	2	2	2	2	2	2	2	2	A	X	TVB
<b>Nickel</b>											
Nickel Chloride	X	X	X	-	X	2	-	-	X	A	TEVNB
Nickel Sulfate	X	X	-	2	-	-	2	2	X	A	TEVNB
<b>Nitric</b>											
Nitric Acid (100%)	1	X	X	2	X	X	2	-	X	X	TV
Nitric Acid (50%)	X	X	X	1	X	X	2	-	X	X	TV
Nitric Acid (30%)	X	X	X	1	X	X	1	-	X	X	TV
Nitrobenzene	1	2	2	-	2	2	2	2	A	A	T
<b>Oils</b>											
Castor Oil	2	2	2	1	2	1	2	2	A	A	TEVNB
Coconut Oil	2	-	2	-	3	2	2	2	A	A	TVB
Corn Oil	2	2	2	-	2	2	-	2	A	A	TVNB
Cotton Seed Oil	2	2	2	-	2	1	2	2	A	A	TVNB
Fuel Oil	2	2	2	2	2	2	2	2	A	X	TVNB
Linseed Oil	2	2	2	2	2	2	2	2	A	A	TVNB



## TECHNICAL INFORMATION

AGENT	Aluminum	Brass	Bronze	Hastelloy, C-276	Malleable Iron Carbon Steel	Monel	Stainless Steel, 304	Stainless Steel, 316	Nylon	Polypropylene	Seal Material
Mineral Oil	2	1	-	-	2	1	1	2	A	A	TVNB
Silicon Oil	2	1	2	-	2	-	2	2	A	A	TEVB
Vegetable Oil	2	2	2	1	2	1	1	1	A	X	TVNB
Oleic Acid	2	3	2	2	2	1	-	1	A	X	TB
Oleum	2	X	X	-	2	X	2	2	X	X	TV
Oxalic Acid (Sat.)	2	-	2	2	X	2	X	X	X	A	TEV
Oxygen	2	2	2	-	2	2	2	2	X	X	TEVNB
Palmitic Acid (Sat.)	2	3	2	-	3	2	2	2	X	A	TVB
Paraffin	2	2	2	2	2	2	2	2	A	A	TVNB
Perchloroethylene	2	2	2	2	2	1	-	-	X	X	TV
Petrolatum	2	-	2	-	3	2	2	2	A	-	TVNB
Phenol (Carbolic Acid)	1	1	X	1	2	1	-	1	X	X	TV
Phosphoric Acid											
Phosphoric Acid (25-50%)	X	X	2	1	X	X	-	-	X	A	TEVN
Phosphoric Acid (50-85%)	X	X	X	1	X	3	-	-	X	A	TEV
Photographic Solutions	-	-	-	-	X	1	1	1	X	X	TVNB
Phthalic Anhydride	-	2	2	1	2	1	1	1	X	X	TEV
Picric Acid	1	X	X	2	X	X	2	2	X	-	TEVNB
Plating Solutions											
Brass Plating Solution	-	-	-	1	-	-	-	2	X	A	TEVNB
Cadmium Plating Solution	-	-	-	1	-	-	-	2	X	A	TEVNB
Chrome 40% Plating Solution	X	2	2	1	X	X	2	2	X	A	TEVN
Copper (Cyanide) Plating Solution	-	-	-	1	-	-	-	-	X	A	TEVNB
Gold Plating Solution	-	-	-	1	-	-	-	1	X	A	TEVNB
Iron Plating Solution	-	-	-	-	-	-	-	-	X	A	TEVB
Lead Plating Solution	-	-	-	-	-	-	1	1	X	A	TEVNB
Nickel Plating Solution	-	-	-	1	-	-	1	1	X	A	TEVNB
Silver Plating Solution	-	-	-	1	-	-	1	1	X	A	TEVNB
Tin Plating Solution	-	-	-	1	-	-	-	3	X	A	TEVNB
Zinc Plating Solution	-	-	-	1	-	-	-	-	X	A	TEVNB
Potassium											
Potassium Acetate	X	X	X	-	2	-	-	-	A	A	TEVB
Potassium Bicarbonate (30%)	X	2	-	2	2	2	1	1	A	A	TEVNB
Potassium Carbonate (50%)	X	2	X	2	2	2	1	1	A	A	TEVNB
Potassium Chlorate (30%)	2	X	X	-	2	2	2	1	X	A	TEVNB
Potassium Chloride (30%)	X	X	2	-	2	1	-	-	A	A	TEVNB
Potassium Chromate (30%)	2	2	2	2	-	2	2	2	X	A	TEVB
Potassium Cyanide Solution (30%)	X	X	X	2	2	2	2	2	X	A	TEVNB
Potassium Dichromate (30%)	1	2	2	2	2	2	1	1	X	A	TEVB
Potassium Hydroxide (90%)	X	X	X	2	-	2	X	-	X	A	TENB
Potassium Nitrate (80%)	1	2	2	2	2	2	2	2	X	A	TEVNB
Potassium Permanganate (20%)	2	2	2	1	2	2	2	2	X	A	TEVN
Potassium Sulfate (10%)	1	2	2	1	2	1	1	1	A	A	TEVNB
Propane	1	1	1	2	2	1	2	2	X	X	TVB
Propylene Glycol	2	2	2	2	2	2	2	2	A	A	TVNB
Propylene Oxide (90%)	-	-	-	-	-	-	1	1	X	X	TE
Pyridine	2	2	2	-	2	2	2	2	A	X	T
Pyrogalllic Acid	2	2	2	2	2	2	2	2	X	X	TVNB
Silver Nitrate	X	X	X	-	X	X	2	1	X	A	TEVNB
Soap Solutions	2	2	2	1	2	2	2	2	A	A	TEVNB
Sodium											
Sodium Acetate	1	2	2	-	X	2	2	2	A	A	TEN
Sodium Bicarbonate (20%)	2	2	2	1	3	1	1	1	A	A	TEVNB



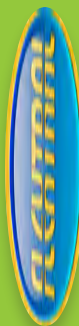


TECHNICAL INFORMATION

AGENT	Aluminum	Brass	Bronze	Hastelloy, C-276	Malleable Iron Carbon Steel	Monel	Stainless Steel, 304	Stainless Steel, 316	Nylon	Polypropylene	Seal Material
Sodium Bisulfate	X	-	2	2	2	-	-	-	A	A	TEVNB
Sodium Bisulfite	X	2	X	2	X	-	-	-	A	A	TEVNB
Sodium Borate	2	2	2	2	3	2	2	2	A	A	TEVNB
Sodium Perborate (10%)	2	X	2	2	2	2	2	2	X	A	TEVNB
Sodium Carbonate	X	2	-	2	2	1	-	2	A	A	TEVNB
Sodium Chlorate (50%)	2	2	2	1	X	1	2	2	X	A	TEVNB
Sodium Cyanide	X	X	X	2	2	X	-	-	A	A	TEVNB
Sodium Dichromate	2	X	X	1	2	-	2	2	X	A	TE
Sodium Hydroxide (70%)	X	X	X	1	3	1	2	2	X	A	TENB
Sodium Hydroxide (50%)	X	X	3	1	3	1	1	-	X	A	TENB
Sodium Hydroxide (30%)	X	2	3	2	2	1	1	1	X	A	TENB
Sodium Chloride (30%)	X	2	2	2	2	1	-	-	X	A	TEVNB
Sodium Hypochlorite	X	X	X	-	X	X	-	-	X	A	TEV
Sodium Metaphosphate	X	X	2	-	X	2	2	2	X	X	TEVNB
Sodium Nitrate (40%)	1	2	-	-	2	2	1	1	A	A	TENB
Sodium Perborate (10%)	2	X	2	2	2	2	2	2	X	A	TEVNB
Sodium Peroxide (10%)	2	X	X	2	2	2	2	2	X	A	TEVNB
Sodium Silicate	1	2	2	2	2	2	2	2	A	A	TEVNB
Sodium Sulfate	-	2	2	2	2	-	-	1	A	A	TEVNB
Sodium Sulfide (50%)	X	X	X	2	2	2	-	2	X	A	TEVNB
Sodium Thiosulphate	2	X	X	2	X	2	2	2	A	A	TEVNB
Stannic Chloride	X	X	X	-	X	X	X	X	X	A	TEVNB
Stannous Chloride	X	X	X	2	X	-	X	-	X	X	TEVNB
Steam	-	-	-	-	-	-	-	-	X	-	-
Stearic Acid	2	3	2	1	3	3	2	1	A	A	TVNB
Stoddard's Solvent	2	2	2	1	2	2	2	2	X	A	TVB
Sugar Liquors (Cane)	1	2	1	-	2	2	2	2	A	A	TEVNB
Sugar Liquors (Beet)	1	2	1	-	2	1	1	1	A	A	TEVNB
Sulfate Liquors	2	X	X	2	3	2	-	2	X	A	TVNB
Sulfite Liquors	X	X	-	1	X	X	2	2	X	X	TVNB
Sulfur Chloride	X	-	X	2	X	X	-	-	X	X	TV
Sulfur Dioxide (Dry)	2	2	2	2	1	2	-	2	X	A	TE
Sulfur Trioxide	2	2	X	2	2	2	-	2	X	X	TEV
Sulfuric Acid (TO 10%)	X	2	X	1	X	X	X	X	X	A	TEVNB
Sulfuric Acid (100%)	X	X	X	1	2	X	-	-	X	X	TV
Sulfurous Acid	2	2	X	-	X	X	X	-	X	A	TV
Tannic Acid	X	-	X	-	X	2	2	2	X	A	TEVNB
Tanning Liquors	1	-	2	1	-	-	1	1	X	A	TVNB
Tartaric Acid	-	-	2	2	-	-	1	1	A	A	TVNB
Titanium Tetrachloride	X	X	X	2	2	2	-	2	X	X	TV
Toluene	1	1	1	1	1	1	1	1	A	X	TVB
Tetrahydrofuran	X	-	2	1	1	-	1	2	A	X	T
Tomato Juice	2	-	3	2	3	2	2	2	X	A	TEVNB
Trichloroethylene	1	-	2	1	2	-	-	-	A	X	TV
Triethanolamine	2	X	2	2	2	2	2	2	A	X	TEVN
Triethylamine	-	-	-	-	-	2	2	2	A	X	TVB
Trisodium Phosphate (10%)	X	2	-	1	2	2	1	1	A	A	TVNB
Turpentine	2	X	2	2	2	1	1	1	X	X	TVB
Urea (50%)	2	-	2	-	2	2	2	2	A	A	TEVNB
Urine	-	-	-	-	2	-	1	1	X	A	TEVNB
Vinegar	2	X	2	2	2	2	2	2	X	A	TEVN
Water Acid (Mine)	X	X	X	1	X	-	-	-	X	A	TEVNB
Water (Distilled)	X	2	2	1	X	X	2	2	A	A	TEVNB

## TECHNICAL INFORMATION

AGENT	Aluminum	Brass	Bronze	Hastelloy, C-276	Malleable Iron Carbon Steel	Monel	Stainless Steel, 304	Stainless Steel, 316	Nylon	Polypropylene	Seal Material
Water (Sea)	2	2	2	1	X	2	2	2	A	A	TEVNB
Whiskey	X	2	2	1	2	2	1	1	X	A	TEVNB
White Liquor (Pulp)	2	-	X	2	X	X	2	2	X	A	TEVNB
Wine	X	2	2	1	X	2	1	1	X	A	TEVNB
Xylene	2	2	2	1	2	2	2	2	A	X	TV
Zinc											
Zinc Chloride	X	X	X	2	X	-	X	2	A	A	TEVNB
Zinc Nitrate	-	-	-	-	-	-	2	2	X	A	TEVNB
Zinc Sulfate (50%)	X	2	2	2	X	2	1	1	X	A	TEVNB





## COMPOSITE HOSE CHEMICAL GUIDES

WARNING! The following data is based on tests and believed to be reliable; however, the tabulation should be used as a guide ONLY, since it does not take into consideration all variables, such as elevated temperatures, fluid contamination, concentration, etc., that may be encountered in actual use. All critical applications should be tested.

Chemical or Material Conveyed	Hose Inner Wire				Coupl. Mat.		Seal Mat.		Chemical or Material Conveyed	Hose Inner Wire				Coupl. Mat.		Seal Mat.	
	A = Suitable for use 60°C				Insert Stems	NBR	Viton	A = Suitable for use 60°C				Insert Stems	NBR	Viton			
	B = Suitable for use AMBIENT Temp.	C = Suitable INTERMITTENT serv. only	F = Unsuitable - NOT RECOMMENDED	= No Data (contact Matec)				B = Suitable for use AMBIENT Temp.		C = Suitable INTERMITTENT serv. only	F = Unsuitable - NOT RECOMMENDED				= No Data (contact Matec)		
	Polypropylene Liner	PFTFE	Stainless Steel	Carbon Steel	Stainless Steel				Polypropylene Liner	PFTFE	Stainless Steel	Carbon Steel	Stainless Steel				
1,3-Pentadiene	C	C	C	A	C	A			Barium Carbonate	A	A	A	A	A	A	A	A
2-Ethylhexylamine	C	B	B	A	C	A			Barium Chloride Solution	F	A	F	F	F	F	A	A
2-Ethyl-3-Propylacrolein	C	C	C	A	C	A			Barium Hydroxide	F	A	A	A	F	A	A	A
2-Hydroxyethyl Acrylate	C	C	C	B	C	B			Barium Salts	F	A	B	B	F	B	A	A
2-Methyl Pentene	C	C	C	A	C	A			Barium Sulfate	F	A	A	A	F	A	A	A
Acetaldehyde 100%	F	C	C	A	F	A	F	F	Beer	F	A	A	A	F	A	A	A
Acetaldehyde 40%	F	B	B	A	F	A	F	F	Benzaldehyde	F	C	C	A	F	A	F	F
Acetic Acid 60%	F	A	A	A	F	A	F	F	Benzene	F	C	C	A	F	A	F	A
Acetic Acid, Glacial	F	B	B	A	F	A	F	F	Benzoic Acid	F	C	A	A	F	A	F	A
Acetic Anhydride	F	B	B	A	F	A	F	F	Benzyl Alcohol	A	A	A	A	A	A	F	A
Acetoacetic Ester	F	B	B	A	F	A	F	F	Bleach ( 12,5% CL)	F	B	C	B	F	B	F	B
Acetone	A	A	A	A	A	A	F	F	Borax (Aqueous)	A	A	A	A	A	A	A	A
Acetone Cyanohydrin	F	B	B	A	F	A	F	F	Boric Acid	F	A	A	A	F	A	A	A
Acetonitrile	B	B	B	A	B	A	C	F	Brine	F	A	C	F	F	F	A	A
Acetophenone	B	B	B	A	B	A	F	F	Butadiene	B	B	B	B	B	B	F	B
Acetyl Chloride	F	F	F	A	F	A	F	B	Butanol	B	B	B	A	B	A	A	A
Acetylacetone	B	B	B	A	B	A	C	F	Butyl Acetate	C	C	C	B	C	B	F	F
Acetylene Dichloride	B	B	B	A	B	A	A	F	Butyl Alcohol	A	A	A	A	A	A	A	A
Acrolein (Acrylaidenhyde)	B	B	B	A	B	A	B	F	Butyl Benzene	B	B	B	B	B	B	F	A
Acrylamide (<50%)	F	C	C	B	F	B			Butyl Carbitol Acetate	C	C	C	B	C	B	B	A
Acrylic Acid	F	B	B	B	F	B	B	A	Butylamine	F	B	B	B	F	B	C	F
Acrylonitrile	F	A	A	A	F	A	F	F	Butyric Acid	B	B	B	A	B	A	C	C
Adipic Acid (Aqueous)	A	A	A	A	A	A	A	A	Calcium Acetate	B	B	B	B	B	B	F	F
Adiponitrile	B	B	B	A	B	A			Calcium Alkyl Salicylate	F	A	A	A	F	A		
Allyl Alcohol	A	A	A	A	A	A	A	B	Calcium Carbonate	F	A	A	A	F	A	A	A
Allyl Bromide	C	C	C	A	C	A	F	B	Calcium Chloride	F	A	C	C	F	C	A	A
Allyl Chloride	C	C	C	B	C	B	F	A	Calcium Hydroxide	F	A	A	A	F	A	A	A
Aluminum Salt Solutions	F	A	B	A	F	A	A	A	Calcium Hypochlorite	F	B	C	B	F	B	F	A
Alums	F	A	A	A	F	A	A	A	Calcium Nitrate	F	A	A	A	F	A	A	A
Aminoethyl Ethanolamine	F	B	B	A	F	A			Camphor Oil	C	C	C	B	C	B	B	A
Ammonia Solution	F	A	A	A	F	A	C	B	Caprylic Acid	A	A	A	A	A	A	C	B
Ammonium Chloride Solution	F	A	C	C	F	C	C	A	Carbinols	B	B	B	A	B	A	A	F
Ammonium Hydroxide	B	A	B	A	B	A	B	B	Carbinol Acetate	C	C	C	B	C	B	B	B
Ammonium Nitrate Solution	F	A	B	B	F	B	A	A	Carbolic Acid	F	A	A	A	F	A	C	A
Ammonium Sulfate Solution	F	A	A	A	F	A	A	A	Carbolic Oils	C	C	C	B	C	B		
Amyl Acetate	C	C	C	A	C	A	F	A	Carbon Bisulfide	F	B	B	B	F	B	F	A
Amyl Alcohol	B	B	B	A	B	A	A	A	Carbon Disulfide	C	C	C	A	C	A	F	A
Amyl Chloride	C	C	C	B	C	B	F	A	Carbon Monoxide	F	A	A	A	F	A	C	A
Aniline	F	C	C	A	F	A	F	B	Carbon Tetrachloride	C	C	C	B	C	B	C	A
Animal Oils	A	A	A	A	A	A	A	A	Carbonic Acid	F	A	A	A	F	A	A	A
Anisole	C	C	C	B	C	B			Cashew Nutshell Oil	B	B	B	B	B	B		
Antimony Chloride	F	B	F	F	F	F	A	A	Castor Oil	F	B	B	B	F	B	A	A
Aqua Regia	F	C	F	F	F	F	F	A	Caustic Potash (<50%)	F	A	B	A	F	A	A	C
Arcenic Chloride	F	B	F	F	F	F	C	F	Caustic Soda (<50%)	F	A	B	A	F	A	B	C
Aqua Regia	F	C	F	F	F	F	F	A	Cellosolve	B	B	B	B	B	B	F	C
Arcenic Chloride	F	B	F	F	F	F	C	F	Cetyl Acid	F	B	B	B	F	B		
Arsenic Acid	F	B	C	B	F	B	A	A	Chlorinated Solvents	F	B	B	B	F	B	F	A
Aviation Fuel	C	C	C	B	C	B	A	A	Chlorine (Dry)	F	F	F	A	F	A	B	A

**NOTE:** This chemical resistance table is intended as a guide only. Please consult Tech Center for chemicals not listed or for other extreme service conditions.

## COMPOSITE HOSE CHEMICAL GUIDES

**WARNING!** The following data is based on tests and believed to be reliable; however, the tabulation should be used as a guide ONLY, since it does not take into consideration all variables, such as elevated temperatures, fluid contamination, concentration, etc., that may be encountered in actual use. All critical applications should be tested.

Chemical or Material Conveyed	Hose Inner Wire				Coupl. Mat.		Seal Mat.	
	Polypropylene Liner		PFTE		Insert Stems		NBR	Viton
	Galvanized	Polypropylene	Stainless Steel	Stainless Steel	Carbon Steel	Stainless Steel		
A = Suitable for use 60°C								
B = Suitable for use AMBIENT Temp.								
C = Suitable INTERMITTENT serv. only								
F = Unsuitable - NOT RECOMMENDED								
= No Data (contact Matec)								
Chlorobenzene	C	C	C	A	C	A	F	A
Chloroform	C	C	C	A	C	A	F	A
Chrome Alum	F	A	A	A	F	A	A	A
Chromic Acid Aqueous	F	C	C	A	F	A	F	C
Citric Acid	F	A	A	A	F	A	B	A
Coal Tar Naptha	F	B	B	A	F	A	A	A
Copper Chloride	F	A	F	F	F	F	A	A
Copper Nitrate	F	A	A	A	F	A	A	A
Creosote	B	B	B	A	B	A	A	A
Crotonaldehyde	C	C	C	B	C	B	F	F
Crude Oil	A	A	A	A	A	A	A	A
Cumene	B	B	B	A	B	A	C	A
Cyclohexane	B	B	B	B	B	B	B	A
Cyclohexylamine	F	B	B	A	F	A	C	F
Cyclotane	B	B	B	A	B	A		
Decanol	B	B	B	B	B	B	B	A
Decyl Alcohol	B	B	B	B	B	B	A	B
Decylbutyl Phthalate	B	B	B	B	B	B	F	C
Detergents (2%)	A	A	A	A	A	A	A	A
Dextrin	A	A	A	A	A	A	A	A
Diacetone Alcohol	B	B	B	A	B	A	F	F
Diaminoethylamine	C	B	B	A	C	A		
Diamylamine	C	B	B	A	C	A	B	F
Dibromoethane	F	B	B	A	F	A	F	A
Dibutyl Ether	C	C	C	B	C	B	F	C
Dibutyl Phthalate	B	B	B	A	B	A	F	F
Dibutylamine	C	B	B	A	C	A	F	F
Dichloroacetic Acid	F	C	F	F	F	F	F	C
Dichlorobenzene	C	C	C	B	C	B	F	B
Dichlorobutane	C	C	C	A	C	A	F	A
Dichloroethane	C	C	C	B	C	B	F	A
Dichloroethyl Ether	C	C	C	A	C	A	F	C
Dichloroethylene	C	C	C	B	C	B	F	A
Dichloropropane	C	C	C	B	C	B	F	A
Dichloropropylene	C	C	C	B	C	B		
Diethylbenzene	B	B	B	A	B	A		
Diesel Oil	B	B	B	B	B	B	A	A
Diethanolamine	F	A	A	A	F	A	B	F
Diethyl Sulphate	F	B	B	A	F	A	F	A
Diethylamine	F	B	B	A	F	A	C	F
Diethylaminoethanol	C	B	B	A	C	A		
Diethylene Dioxide	C	B	B	A	C	A	F	F
Diethylene Glycol Diethyl Ether	B	B	B	A	B	A		
Diethylene Glycol	A	A	A	A	A	A	A	A
Diisobutyl Ketone	B	B	B	A	B	A	F	F
Diisobutylamine	B	B	B	B	B	B	B	A
Diisobutylene	C	C	C	B	C	B	A	A
Diisooctyl Adipate	B	B	B	A	B	A	F	C
Diisooctyl Phthalate	A	A	A	A	A	A	F	B
Diisopropanolamine	F	B	B	A	F	A	B	C
Diisopropylether	B	B	B	A	B	A	B	B
Dimethyl Ethanolamine	F	B	B	A	F	A	F	A
Dimethyl Formamide	A	A	A	A	A	A	C	F
Dimethyl Hydrogen Phosphite	F	C	C	B	F	B		
Dimethyl Ketone	A	A	A	A	A	A	F	F
Dimethyl Phthalate	B	B	B	A	B	A	F	C
Dimethyl Sulphate	F	B	B	A	F	A	F	F
Dimethyl Sulphide	B	B	B	A	B	A	F	C
Dimethylamine	F	B	B	A	F	A	C	F
Dimethylcyclohexylamine	F	B	B	B	F	B		
Dinitrobenzene	C	C	C	A	C	A	F	A
Diocetyl Phthalate	B	B	B	A	B	A	F	B
Diocetyl Sebacate	B	B	B	A	B	A	F	B
Diocetylamine	B	B	B	A	B	A	B	F
Dioxane	C	B	B	A	C	A	F	F
Dipentene	B	B	B	A	B	A	C	A
Diphenyl Ether	B	B	B	A	B	A	F	A
Diphenyl Phthalate	B	B	B	A	B	A	F	C
Dipropylamine	B	B	B	A	B	A		
Dipropylene Glycol	A	A	A	A	A	A	A	A
Disulphuric Acid	F	F	F	C	F	C		
Dodecyl Alcohol	B	B	B	A	B	A	A	B
Dodecyl Benzene	B	B	B	B	B	B	F	A
Dodecyl Phenol	B	B	B	B	B	B		
Dodecyltoulene	B	B	B	B	B	B	F	A
Emulsifiers	F	A	A	A	F	A		
Epichlorohydrin	B	B	B	A	B	A	F	F
Ethanoic Acid	F	B	B	A	F	A	C	F
Ethanolamine	B	A	A	A	B	A	B	F
Ethoxy Ethanol	C	C	C	B	C	B	A	C
Ethoxy Ethyl Acetate	C	C	C	A	C	A	F	F
Ethoxy Propanol	C	C	C	B	C	B		
Ethyl Acetate	C	C	C	A	C	A	F	F
Ethyl Acrylate	B	B	B	A	B	A	F	F
Ethyl Alcohol	A	A	A	A	A	A	A	B
Ethyl Aluminum Dichloride	F	F	F	C	F	C	F	B
Ethyl Butanol	B	B	B	A	B	A	A	B
Ethyl Butylamine	C	B	B	B	C	B		
Ethyl Chloride	C	C	C	A	C	A	F	B
Ethyl Cyclohexane	C	C	C	A	C	A		
Ethyl Cyclohexylamine	C	C	C	B	C	B		
Ethyl Ether	F	C	C	A	F	A	C	F
Ethyl Formate	F	B	B	A	F	A	F	F
Ethyl Iodide	C	C	C	B	C	B	F	B
Ethyl Isobutyl Ether	F	B	B	A	F	A	F	
Ethyl Methacrylate	C	C	C	A	C	A		

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## COMPOSITE HOSE CHEMICAL GUIDES

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Chemical or Material Conveyed	Hose Inner Wire				Coupl. Mat.		Seal Mat.	
	Polypropylene Liner				PFTE		Insert Stems	
A = Suitable for use 60°C								
B = Suitable for use AMBIENT Temp.	Galvanized	Polypropylene	Stainless Steel	Stainless Steel	Carbon Steel	Stainless Steel	NBR	Viton
C = Suitable INTERMITTENT serv. only								
F = Unsuitable - NOT RECOMMENDED								
= No Data (contact Matec)	G	P	X	X				
Ethyl Methyl Ketone	B	B	B	B	B	B	F	F
Ethyl Phthalate	A	A	A	A	A	A	F	
Ethyl Silicate	A	A	A	A	A	A	A	A
Ethyl Sulphate	B	B	B	A	B	A	F	F
Ethyl Vinyl Ether	B	B	B	A	B	A		
Ethylamine	C	B	B	A	C	A	C	F
Ethylbenzene	B	B	B	A	B	A	F	A
Ethylene Carbonate	C	B	B	A	C	A		
Ethylene Chloride	C	C	C	A	C	A	F	A
Ethylene Chlorohydrin	B	B	B	A	B	A	F	A
Ethylene Cyanhydrin	F	C	C	A	F	A	B	A
Ethylene Diamine	B	B	B	A	B	A	A	F
Ethylene Dibromide	C	B	B	A	C	A	F	B
Ethylene Dichloride	C	C	C	A	C	A	F	B
Ethylene Glycol	A	A	A	A	A	A	A	A
Ethylene Oxide	F	B	B	A	F	A	F	F
Ethylhexanoic Acid	F	B	B	B	F	B		
Ethylhexyl Acrylate	F	B	B	A	F	A		F
Ethylhexyl Alcohol	A	A	A	A	A	A		
Ethylpropyl Ether	B	B	B	A	B	A	F	C
Ethylpropyl Ketone	C	C	C	A	C	A	F	F
Fatty Acids	F	A	A	A	F	A	B	A
Fatty Alcohols	A	A	A	A	A	A		
Ferric Salts	F	A	B	B	F	B	A	A
Fluosilicic Acid	F	A	A	A	F	A	B	A
Formaldehyde Solutions	A	A	A	A	A	A	A	A
Formamide	F	A	B	A	F	A	A	F
Formic Acid	F	A	B	A	F	A	B	F
Fruit Juices	F	A	A	F	F	F	A	A
Fuel Oils	B	B	B	A	B	A	A	A
Furfural	C	C	C	A	C	A	F	F
Furfuryl Alcohol	C	C	C	A	C	A	F	F
Gallic Acid Solution	C	A	A	A	C	A	B	B
Gasoline	B	B	B	A	B	A	A	A
Gelatine (aqueous)	A	A	A	A	A	A	A	A
Gluconic Acid	C	A	A	A	C	A	C	A
Glucose (aqueous)	A	A	A	A	A	A	A	A
Glycerine	A	A	A	A	A	A	A	A
Glycolic acid (aqueous)	F	A	A	A	F	A	A	A
Glycols (aqueous)	A	A	A	A	A	A	A	A
Grease	B	B	B	A	B	A	A	A
Green Sulphate Liquor	F	B	B	B	F	B		
Heptane	B	B	B	A	B	A	A	A
Heptanol	A	A	A	A	A	A	A	B
Heptanone	B	B	B	A	B	A		
Heptene	B	B	B	A	B	A		
Heptonic Acid	F	B	B	A	F	A	A	A
Hexamethylene Diamine	F	B	B	A	F	A		

Chemical or Material Conveyed	Hose Inner Wire				Coupl. Mat.		Seal Mat.	
	Polypropylene Liner				PFTE		Insert Stems	
A = Suitable for use 60°C								
B = Suitable for use AMBIENT Temp.	Galvanized	Polypropylene	Stainless Steel	Stainless Steel	Carbon Steel	Stainless Steel	NBR	Viton
C = Suitable INTERMITTENT serv. only								
F = Unsuitable - NOT RECOMMENDED								
= No Data (contact Matec)	G	P	X	X				
Hexamethylene Tetramine	F	B	B	A	F	A		
Hexamethyleneimine	F	C	C	B	F	B		
Hexane	B	B	B	A	B	A	A	A
Hexanol	A	A	A	A	A	A	A	A
Hexene	B	B	B	B	B	B	B	A
Hexylamine	F	B	B	A	F	A	C	F
Hexylene Glycol	A	A	A	A	A	A	A	A
Hydrazine Hydrate	F	B	B	A	F	A	B	F
Hydrobromic Acid	F	A	F	F	F	F	C	A
Hydrochloric Acid	F	C	F	F	F	F	F	A
Hydrofluoric Acid	F	B	F	F	F	F	F	A
Hydrofluosilicic Acid	F	A	A	A	F	A	B	A
Hydrogen Peroxide Solut.	F	B	B	B	F	B	F	B
Hydrogen Sulfide (aqueo)	F	A	F	F	F	F	F	F
Hydroquinone	A	A	A	A	A	A	F	F
Iodine Solution	F	B	F	F	F	F	F	C
Iron Salts	F	A	F	A	F	A	A	A
Isoamyl Acetate	C	C	C	A	C	A	F	F
Isoamyl Alcohol	B	B	B	A	B	A	A	A
Isoamyl Bromide	F	B	F	F	F	F	F	B
Isoamyl Butyrate	B	B	B	A	B	A	F	F
Isoamyl Chloride	F	C	C	B	F	B	F	B
Isoamyl Ether	B	B	B	A	B	A	F	F
Isobutaldehyde	F	F	C	B	F	B	C	F
Isobutyl Acetate	C	C	C	B	C	B	F	F
Isobutyl Acrylate	B	B	B	A	B	A		
Isobutyl Alcohol	A	A	A	A	A	A	B	B
Isobutyl Bromide	F	B	F	F	F	F	F	B
Isobutyl Chloride	F	B	F	F	F	F	F	B
Isobutyl Ether	C	C	C	A	C	A	F	F
Isobutyl Formate	C	C	C	C	C	C		
Isobutylamine	F	B	B	A	F	A	F	F
Isobutylmethyl Ketone	B	B	B	A	B	A	F	F
Isodecyl Alcohol	A	A	A	A	A	A	A	B
Isooctane	C	C	C	A	C	A	A	A
Isopentane	C	C	C	A	C	A	A	A
Isophorone	B	B	B	B	B	B	F	F
Isophorone Diamine	F	C	C	B	F	B		
Isophorone Diisocyanate	C	C	C	B	C	B		
Isoprene	B	B	B	A	B	A		
Isopropanolamine	F	B	B	A	F	A	F	F
Isopropyl Acetate	C	C	C	B	C	B	F	F
Isopropyl Alcohol	A	A	A	A	A	A	B	B
Isopropyl Benzene	B	B	B	B	B	B	F	A
Isopropyl Chloride	F	B	F	B	F	B	F	B
Isopropyl Ether	F	B	F	A	F	A	C	F
Isopropyl Toluene	B	B	B	B	B	B	F	A
Isopropylamine	F	B	B	A	F	A	B	F

**NOTE:** This chemical resistance table is intended as a guide only. Please consult Tech Center for chemicals not listed or for other extreme service conditions.

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Chemical or Material Conveyed	Hose Inner Wire				Coupl. Mat.		Seal Mat.			
	Polypropylene Liner				Insert Stems		NBR	Viton		
	Galvanized	Polypropylene	Stainless Steel	Stainless Steel	Carbon Steel	Stainless Steel				
									A = Suitable for use 60°C	
									B = Suitable for use AMBIENT Temp.	
C = Suitable INTERMITTENT serv. only										
F = Unsuitable - NOT RECOMMENDED										
= No Data (contact Matec)										
Isovaleraldehyde	F	C	C	B	F	B				
Jams	B	A	A	A	B	A	A	A		
Jet Fuel	C	C	C	A	C	A	A	A		
Kerosene	B	B	B	A	B	A	A	A		
Ketones	B	B	B	A	B	A	F	F		
Lactic Acid	F	A	B	A	F	A	C	A		
Lanolin	A	A	A	A	A	A	A	A		
Lard	A	A	A	A	A	A	A	A		
Latex	A	A	A	A	A	A	A	A		
Lauryl Alcohol	B	B	B	A	B	A	A	B		
Lead Acetate	F	A	A	A	F	A	C	C		
Lead Salts	F	A	B	B	F	B	A	A		
Ligroin	C	C	C	B	C	B	A	A		
Limonene	B	B	B	A	B	A				
Linseed Oil	A	A	A	A	A	A	A	A		
Lubricating Oil	B	B	B	A	B	A	A	A		
Magnesium Salts	F	A	B	B	F	B	A	A		
Maleic Acid Solution	F	A	B	B	F	B	F	A		
Maleic Anhydride Solution	F	B	B	B	F	B	F	A		
Malic Acid Solution	F	B	B	B	F	B	B	A		
Manganese Salts	F	A	B	B	F	B	A	A		
Meat Juices	F	A	A	A	F	A				
Mercuric Chloride	F	A	F	F	F	F	B	A		
Mesityl Oxide	B	B	B	A	B	A	F	F		
Methacrylic Acid	F	B	B	A	F	A				
Methaxlene	F	B	B	B	F	B				
Methyl Acetate	C	C	C	A	C	A	F	F		
Methyl Acetone	B	B	B	A	B	A	F	F		
Methyl Acrylate	B	B	B	A	B	A	F	F		
Methyl Alcohol	A	A	A	A	A	A	A	C		
Methyl Butyraldehyde	F	F	F	B	F	B				
Methyl Carbitol	A	A	A	A	A	A	C			
Methyl Cellosolve	B	B	B	B	B	B	C	F		
Methyl Cellosolve Acetate	C	C	C	B	C	B				
Methyl Chloride	C	C	C	A	C	A	C	A		
Methyl Cyanide	B	B	B	A	B	A	C	F		
Methyl Cyclohexane	B	B	B	A	B	A	F	B		
Methyl Formate	C	C	C	A	C	A	F	C		
Methyl Isobutyl Ketone	C	C	C	A	C	A	F	F		
Methyl Methacrylate	C	C	C	A	C	A	F	F		
Methyl Nitrobenzene	B	B	B	B	B	B				
Methyl Pentene	B	B	B	A	B	A				
Methylaceto Acetate	F	C	C	B	F	B	F	F		
Methylamine	C	B	B	B	C	B	B	F		
Methylamyl Ketone	B	B	B	A	B	A				
Methylamyl Acetate	C	C	C	A	C	A	C	C		
Methylamyl Alcohol	B	B	B	A	B	A				
Methylbutyl Alcohol	A	A	A	A	A	A				

Chemical or Material Conveyed	Hose Inner Wire				Coupl. Mat.		Seal Mat.			
	Polypropylene Liner				Insert Stems		NBR	Viton		
	Galvanized	Polypropylene	Stainless Steel	Stainless Steel	Carbon Steel	Stainless Steel				
									A = Suitable for use 60°C	
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F = Unsuitable - NOT RECOMMENDED										
= No Data (contact Matec)										
Methylbutyl Ketone (MBK)	B	B	B	A	B	A				
Methylene Bromide	C	C	C	A	C	A	B	C		
Methylene Chloride	C	C	C	B	C	B	F	C		
Methylethyl Ketone	C	C	C	A	C	A	F	F		
Methylethyl Pyridine	C	C	C	B	C	B				
Methylheptyl Ketone	F	B	B	B	F	B				
Methylstyrene	B	B	B	A	B	A				
Methylter-Butyl Ether (MTBE)	C	C	C	A	C	A	F	F		
Mineral	B	B	B	A	B	A	A	A		
Mineral Spirits	B	B	B	A	B	A	A	A		
Molasses	A	A	A	A	A	A	F	A		
Monochlorobenzene	C	B	B	B	C	B	F	B		
Monoethanolamine	B	A	A	A	B	A	B	C		
Monoethylamine	C	B	B	A	C	A	F			
Naptha	B	B	B	A	B	A	A	A		
Naptha Solvent	C	C	C	A	C	A	A	A		
Napthalene Solution	A	A	A	A	A	A	F	A		
Neohexane	B	B	B	B	B	B	A	A		
Nickel Chloride	F	A	C	B	F	B	A	A		
Nickel Salts	F	A	B	B	F	B	A	A		
Nitric Acid (>60%)	F	F	F	C	F	C	F	C		
Nitric Acid (10%)	F	A	A	A	F	A	F	C		
Nitric Acid (60%)	F	C	C	C	F	C	F	C		
Nitrobenzene	B	B	B	A	B	A	F	B		
Nitropropane	C	C	C	A	C	A	F	F		
Nitrotoluene	B	B	B	A	B	A	C	C		
Nonane	B	B	B	A	B	A	A	A		
Nonyl Alcohol	B	B	B	A	B	A	A	B		
Nonyl Phenol	C	B	B	A	C	A				
Octane	B	B	B	A	B	A	A	A		
Octanol	B	B	B	A	B	A	B	A		
Octyl Acetate	C	C	C	A	C	A	F	F		
Octyl Acrylate	B	B	B	A	B	A				
Octyl Carbinol	B	B	B	A	B	A	A	B		
Oils	B	B	B	A	B	A	A	A		
Oleic Acid	F	B	B	A	F	A	B	C		
Oleum	F	F	F	B	F	B	F	F		
O-Nitrophenol Solution	F	A	A	A	F	A	C	F		
Oxalic Acid	F	B	B	A	F	A	B	A		
Palm Oil	B	B	B	A	B	A	A	A		
Parrafin Wax	A	A	A	A	A	A	A	A		
Pentane	B	B	B	A	B	A	A	A		
Pentanol	A	A	A	A	A	A	A	B		
Pentanone	B	B	B	A	B	A	F	F		
Pentene	B	B	B	A	B	A	B	A		
Perchloroethylene	C	C	C	A	C	A	C	A		
Percloric Acid	F	B	F	F	F	F	F	A		
Petrolatum	A	A	A	A	A	A	A	A		

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Chemical or Material Conveyed	Hose Inner Wire				Coupl. Mat.		Seal Mat.	
	Polypropylene Liner		PFTE		Insert Stems		NBR	Viton
A = Suitable for use 60°C	Galvanized	Polypropylene	Stainless Steel	Stainless Steel	Carbon Steel	Stainless Steel		
B = Suitable for use AMBIENT Temp.								
C = Suitable INTERMITTENT serv. only								
F = Unsuitable - NOT RECOMMENDED								
= No Data (contact Matec)	G	P	X	X				
Petroleum	A	A	A	A	A	A	A	A
Petroleum Ether	C	C	C	A	C	A	A	A
Petroleum Naptha	C	C	C	A	C	A	A	A
Phenol	B	A	A	A	B	A	F	A
Phenoxyethanol	C	C	C	B	C	B		
Phenylhydrazine	F	C	C	B	F	B		
Phosphoric Acid	F	A	A	A	F	A	C	A
Phosphorus	F	F	F	F	F	F		
Phosphorus Oxychloride	F	C	F	F	F	F	F	A
Phosphorus Pentoxide	F	A	B	B	F	B		
Phosphorus Trichloride	F	B	A	A	F	A	F	A
Phthalic Acid	F	B	B	B	F	B		
Phthalic Anyhydride	F	F	F	F	F	F		
Picric Acid	F	B	B	B	F	B	C	C
Pine Oil	B	B	B	A	B	A	C	B
Pinene	B	B	B	A	B	A	A	A
Plasticisers	B	B	B	A	B	A		
Polyethylene Glycol	B	B	B	A	B	A	A	A
Polyethylene Polyamines	F	C	C	A	F	A	A	A
Polypropylene Glycol	B	B	B	A	B	A	A	A
Potassium Salts	F	A	B	A	F	A	A	A
Propionaldehyde	F	C	C	A	F	A	C	F
Propionic Acid	F	B	B	A	F	A	C	F
Propionic Anhydride	F	C	C	B	F	B		
Propionitrile	C	C	C	C	C	C	F	F
Propyl Acetate	C	C	C	A	C	A	F	F
Propyl Alcohol	A	A	A	A	A	A	A	A
Propylamine	F	B	B	A	F	A	C	F
Propylene Glycol	A	A	A	A	A	A	A	A
Propylene Oxide	F	B	B	B	F	B	F	F
Prussic Acid	F	A	A	A	F	A		
Pyridine	F	B	B	A	F	A	F	F
Pyrosulphuric Acid	F	F	F	B	F	B	C	C
Salt Solution	F	A	B	A	F	A	A	A
Sea Water	F	A	B	B	F	B	A	A
Sewage	F	B	B	B	F	B	A	A
Silicon Oil	A	A	A	A	A	A	A	A
Silver Halides	F	A	F	F	F	F	C	C
Silver Salts	F	A	B	B	F	B	A	A
Soap Solution	B	A	A	A	B	A	A	A
Sodium Chloride	F	A	F	F	F	F	A	A
Sodium Dichromate	F	B	F	F	F	F	F	C
Sodium Hydrosulfide	F	A	B	B	F	B	C	B
Sodium Hydroxide	F	A	B	B	F	B	C	C
Sodium Hypochlorite	F	C	F	F	F	F	F	A
Sodium Salts	F	A	B	B	F	B	B	A
Sodium Thiosulfate	F	A	B	B	F	B	A	A
Starch(aqueous)	B	A	A	A	B	A	A	A

Chemical or Material Conveyed	Hose Inner Wire				Coupl. Mat.		Seal Mat.	
	Polypropylene Liner		PFTE		Insert Stems		NBR	Viton
A = Suitable for use 60°C	Galvanized	Polypropylene	Stainless Steel	Stainless Steel	Carbon Steel	Stainless Steel		
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C = Suitable INTERMITTENT serv. only								
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= No Data (contact Matec)	G	P	X	X				
Styrene Monomer	B	B	B	X	B	A	F	A
Sugar Syrup	A	A	A	A	A	A	A	A
Sulphamic Acid	F	A	A	A	F	A	B	C
Sulpher Dioxide	F	C	C	C	F	C	C	A
Sulpher Liquid	F	F	F	F	F	F	B	A
Sulphuric Acid (<20%)	F	B	C	B	F	B	B	A
Sulphuric Acid (>85%)	F	C	C	B	F	C	F	A
Sulphuric Acid (20%-80%)	F	B	F	C	F	C	F	A
Sulphurous Acid	F	B	B	B	F	B	C	A
Sulphuryl Chloride	F	F	F	F	F	F	C	A
Tall Oil	A	A	A	A	A	A	A	A
Tallow	A	A	A	A	A	A	A	A
Tannic Acid	F	A	A	A	F	A	C	A
Tartaric Acid	F	A	C	A	F	A	C	A
Tetrachloroethane	C	C	C	A	C	A	F	A
Tetrachloroethylene	C	C	C	A	C	A	F	A
Tetraethylene Glycol	B	B	B	A	B	A	A	A
Tetrahydrofuran	F	C	B	A	F	A	F	F
Tetrahydronapthalene	C	C	C	A	C	A		
Tetrathylene Pentamine	F	B	B	B	F	B		
Thionyl Chloride	F	F	F	C	F	C		
Tin Halides	F	A	F	F	F	F	A	A
Tin Salts	F	A	B	F	F	F	A	A
Titanium Tetrachloride	F	C	F	F	F	F	B	A
Toluene	C	C	C	A	C	A	C	A
Touluene Diisocyanate	B	B	B	A	B	A	C	B
Transmission Oil	B	B	B	A	B	A	B	A
Tributyl Phosphate	B	B	B	A	B	A	F	F
Tributylamine	B	B	B	A	B	A	B	F
Trichloroacetic Acid	F	A	B	B	F	B	C	F
Trichlorobenzene	F	C	C	A	F	A	F	B
Trichloroethane	C	C	C	A	C	A	F	A
Trichloropropane	C	C	C	A	C	A	F	A
Tricresyl Phosphate	B	B	B	A	B	A	F	A
Tridecanol	B	B	B	A	B	A	A	B
Triethylamine	F	B	B	B	F	B	A	F
Triethylbenzene	B	B	B	A	B	A		
Triethylene Glycol	A	A	A	A	A	A	A	A
Triethylene Tetramine	F	B	B	A	F	A		
Trimethyl Acetic Acid	F	A	A	A	F	A		
Trimethyl Benzene	B	B	B	A	B	A	B	A
Triocetyl Phosphate	B	B	B	A	B	A	F	B
Trithanolamine	F	B	B	A	F	A		
Tritolyl Phosphate	B	B	B	A	B	A	F	A
Turpentine	C	C	C	A	C	A	B	A
Urea/AmmoniumSalt Solution	B	A	B	A	B	A	A	A
Valeraldehyde	C	C	C	A	C	A	C	F
Vaseline	A	A	A	A	A	A	A	A

**NOTE:** This chemical resistance table is intended as a guide only. Please consult Tech Center for chemicals not listed or for other extreme service conditions.

## COMPOSITE HOSE CHEMICAL GUIDES

WARNING! The following data is based on tests and believed to be reliable; however, the tabulation should be used as a guide ONLY, since it does not take into consideration all variables, such as elevated temperatures, fluid contamination, concentration, etc., that may be encountered in actual use. All critical applications should be tested.

Chemical or Material Conveyed	Hose Inner Wire				Coupl. Mat.		Seal Mat.	
	Polypropylene Liner		PFTE		Insert Stems		NBR	Viton
A = Suitable for use 60°C	Galvanized	Polypropylene	Stainless Steel	Stainless Steel	Carbon Steel	Stainless Steel		
B = Suitable for use AMBIENT Temp.								
C = Suitable INTERMITTENT serv. only								
F = Unsuitable - NOT RECOMMENDED								
= No Data (contact Matec)	G	P	X	X				
Vinegar	F	A	A	A	F	A	C	A
Vinyl Acetate	F	B	B	A	F	A	F	A
Vinyl Ethyl Ether	C	C	C	A	C	A		
Vinyl Toluene	B	B	B	A	B	A	F	A
Vinylidene Chloride	C	C	C	A	C	A	F	A
White Spirits	B	B	B	B	B	B	A	A
Wine	F	B	B	A	F	A	A	A
Xylene/Xylenol	B	B	B	A	B	A	C	A
Yeast(aqueous)	F	A	A	A	F	A	A	A
Zinc Halides	F	A	F	F	F	F	A	A
Zinc Salts	F	A	B	B	F	B	A	A



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