HOSE, COUPLINGS, ACCESSORIES & SKIRTBOARD

Jason Industrial Inc.®
A MEGADYNE GROUP CO.

HOSE, COUPLINGS, ACCESSORIES & SKIRTBOARD

Jason Industrial® is a Megadyne Group company that manufactures and delivers a comprehensive inventory of rubber and polyurethane synchronous belts, rubber v-belts, industrial hose and couplings, plus hardware to the industrial community worldwide.

When extraordinary needs require specialized components, we will work with you from prototype to production, creating custom solutions that suit your unique application.

As a Jason customer, you can feel confident in the quality and integrity of our products, the speed and efficiency at which they are delivered, and the expertise and customer focus that our local representatives are committed to providing.

Jason's corporate headquarters are based in Fairfield, New Jersey. Our distribution center is located just outside of Chicago, Illinois, with additional corporate offices in Canada, Mexico, Brazil and Colombia, as well as manufacturing, warehousing and distribution centers in cities across the globe.

Welcome to Jason...the first name in mechanical rubber and urethane products that power industry forward.

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GENERAL INFORMATION

Organizations Having Regulations or Specifications for Hose

U.S. Government Agencies

DOD Department of Defense
DOT Department of Transportation
FDA Food and Drug Administration
MSHA Mine Safety and Health Administration
NHTSA National Highway Traffic Safety Administration
OSHA Occupational Safety & Health Administration
PHA Public Health Administration
USCG U.S. Coast Guard
USDA U.S. Department of Agriculture

Canadian Agencies and Organizations

CGA Canadian Gas Association
CGSB Canadian Government Specifications Board
RAC Rubber Association of Canada
CSA Canadian Specifications Association

Other Organizations

ABS American Bureau of Shipping
ANSI American National Standards Institute
API American Petroleum Institute
ARPM Association for Rubber Products Manufacturers
BIA Boating Industry Association
BSI British Standards Institute
CARB California Air Resource Board
CGA Compressed Gas Association
DIN Duetches Institut for Normung - German Standards
DNV Det Norske Veritas
EN European Norms
FM Factory Mutual Research
FPS Fluid Power Society
ISO International Organization for Standardization
JIC Joint Industrial Council (now defunct)
JIS Japanese Industrial Standards
NAHAD National Association of Hose and Accessories Distributors
NFPA National Fire Protection Association
National Fluid Power Association
RMA Rubber Manufacturers Association **(replaced by ARPM)**
ROHS Restriction of Hazardous Substances
SAE Society of Automotive Engineers
TFI The Fertilizer Institute
UL Underwriters Laboratories

ARPM Oil Resistance Data

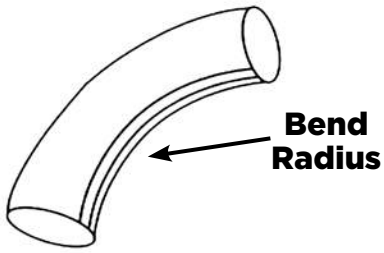
The effects of oil on rubber depend on a number of factors that include the type of rubber compound, the composition of the oil, the temperature and the length of exposure. The ARPM (replacing RMA) has developed a classification of hose performance based on simple immersions in ASTM No. 3 oil (High Swell) at 212° F for 70 hours. Oil resistance classifications for rubber stocks are shown in the table in the next column.

Hose Physical Properties After Exposure to Oil

Classification	Volume Change MAX.	Tensile Strength Retained
Class A (High Oil Resistance)	+25%	80%
Class B (Medium-High Oil Resistance)	+65%	50%
Class C (Medium Oil Resistance)	+100%	40%

Minimum Hose Bend Radius Data (MBR)

The Bend Radius is the radius of the bent section of a hose measured to the inner-most surface of the curved portion. It is important because the minimum bend radius is the maximum amount the hose can be bent without being kinked or damaged.



General formula to determine bend length:

$$\frac{\text{Angle of Bend}}{360°} \times 2\pi = \text{minimum length of hose to make bend}$$

r = given bend radius of the hose

Example: to make a 90° bend with a hose with a 2" I.D.

Given r = 4.5 inches

$$\frac{90°}{360°} \quad (2 \times 3.14 \times 4.5)$$

.25 x 2 x 3.14 x 4.5 = 7 inches

7 inches is the minimum length the hose can be bent without damaging it. Remember that the bend should take place over the entire minimum length and not a portion of it. In addition, the formula does not mean that 7 inches will be long enough to meet application needs. It only means that if the 90° bend takes place in less than 7 inches, the hose could be damaged.

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GENERAL INFORMATION

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I. HOSE SELECTION

It is important to have all the required information to select the proper hose for any hose application. The acronym **"STAMPED"** can be used to remember the required information as follows:

SIZE - Inside diameter (I.D.) and length. In some cases, the outside diameter (O.D.), also.

TEMPERATURE - Internal, external, minimum and maximum.

APPLICATION - What is the hose supposed to do?

MATERIAL - What type of product will be conveyed?

PRESSURE - What are the normal working and burst pressures?

ENDS - Are couplings needed? What type, size and thread?

DELIVERY - When and where will it be needed? Special packaging required?

II. PRESSURE RE-RATING PERCENTAGES FOR INCREASED TEMPERATURES

As temperatures go up, pressure ratings go down. When considering the proper hose for any application, check this table if temperature is a consideration in the decision. This table will indicate the percentage of the initial working pressure by temperature.

Temperature °F	Temperature °C	PVC Hose	Steam & Hot Tar & Asphalt	All Other Hose Types
70°	21°	100%	100%	100%
90°	32°	82%	95%	91%
150°	66°	30%	81%	64%
200°	93°	N/R	68%	42%
250°	121°	N/R	56%	20%
300°	149°	N/R	44%	N/R
350°	177°	N/R	32%	N/R
400°	204°	N/R	20%	N/R
450°	232°	N/R	8%	N/R
500°	260°	N/R	N/R	N/R

N/R - Not Recommended

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GENERAL INFORMATION

III. COMMON TERMS

Terms	Definition	Term	Definition
I.D.	Inside diameter of hose opening	**Weight/ft.**	Weight per foot of hose
O.D.	Outside diameter of hose	**Bend Radius**	The minimum radius to which the hose will bend before it is damaged
Max W.P.	Maximum recommended working pressure	**Standard Lengths**	The bulk length that the hose is stocked for distributors
PSI	Pressure in pounds per square inch		

IV. THREAD CHART

Abbreviation	Thread Name	Seal Method	Thread Compatibility
GHT	Garden Hose Thread	Washer Seal	GHT - GHT
JIC 37° Flare	Joint Industrial Committee	Mechanical Seal	JIC Male - JIC Female
NH or NST	American Standard Fire Hose Thread National Hose or National Standard Thread	Washer Seal	NH or NST - NH or NST
NPT	American Standard Taper Pipe Thread National Pipe Thread	Thread Seal or Washer Seal	NPT - NPT or NPTF
NPTF	American Standard Taper Pipe Fuel Dryseal National Pipe Tapered Fuel	Thread Seal or Washer Seal	NPTF - NPTF or NPT
NPSH	American Standard Straight Pipe for Hose Couplings National Pipe Straight Hose	Washer Seal	NPSH - NPSH or NPT
NPSM	American Standard Straight Mechanical Joints National Pipe Straight Mechanical	Washer Seal or Mechanical Seal	NPSM - NPSM, NPT or NPTF
SAE 45° Flare	Society of Automotive Engineers	Mechanical Seal	SAE Male - SAE Female

Note: Thread sealant is required for Thread Seal connections, except for NPTF during initial use.

Note: Compatibility of thread type does not ensure compatibility of fittings. Always use mating fittings of the same type.

GENERAL INFORMATION

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COMMONLY USED COMPOUNDS - RUBBER

ASTM	Common Name	Composition	General Properties
AU or EU	Urethane	Polyester Urethane	Excellent for high temperature, oil and air resistance. Poor cold flow and low temperature resistance. Not recommended for water service.
CR	Neoprene*	Chloroprene	Good weathering resistance and flame retarding. Moderate resistance to petroleum-based fluids. Good physical properties.
EPDM	Ethylene Propylene Rubber	Ethylene-propylene diene-terpolymer	Excellent ozone, chemical and aging characteristics. Good heat resistance. Poor resistance to petroleum-based fluids.
NBR	Nitrile	Acrylonitrile-butadiene	Excellent resistance to petroleum-based fluids. Moderate resistance to aromatics. Good physical properties.
NR	Natural Rubber	Isoprene, Natural	Excellent physical properties, including abrasion and low temperature resistance. Poor resistance to petroleum-based fluids.
SBR	SBR	Styrene-Butadiene	Good physical properties, including abrasion resistance. Poor resistance to petroleum-based fluids.
XLPE	Cross-Linked Polyethylene	Polyethylene and cross linking agent	Excellent chemical resistance, with good heat and electrical properties.

COMMONLY USED COMPOUNDS - PLASTIC

PE	Polyethylene	Polyethylene	Excellent dielectric properties. Excellent resistance to water, acids, alkalis and solvents. Good abrasion and weathering resistance.
UHMW-PE	UHMWPE	Ultra High Molecular Weight Polyethylene	Excellent resistance to a broad range of chemicals, excellent weight and abrasion resistance.
PVC	PVC	Polyvinyl Chloride	Good weathering, moisture and flame resistance. General resistance to alkalis and weak acids. Good abrasion resistance.
TPE	Thermoplastic Rubber	Thermoplastic Polyolefins and Block Copolymers of Styrene and Butadiene	Good weathering and aging resistance. Good for water, diluted acids and bases.

*DuPont registered trademark

CARE, MAINTENANCE & STORAGE OF HOSE

Hose has a limited life and the use must be alert to signs of impending failure, particularly when the conditions of service include high working pressures and/or the conveyance or containment of hazardous materials. The periodic inspection and testing procedures described here provide a schedule of specific measures which constitute a minimum level of user action to detect signs indicating hose deterioration or loss of performance before conditions leading to malfunction or failure are reached.

General instructions are also described for the proper storage of hose to minimize deterioration from exposure to elements or environments which are known to be deleterious to rubber products. Proper storage conditions can enhance and extend substantially the ultimate life of hose products.

SAFETY WARNING: Failure to properly follow the manufacturer's recommended procedures for the care, maintenance and storage of a particular hose might result in the failure to perform in the manner intended and might result in possible damage to property and serious bodily harm.

General Care and Maintenance of Hose

Hose should not be subjected to any form of abuse in service. It should be handled with reasonable care. Hose should not be dragged over sharp or abrasive surfaces unless specifically designed for such service. Care should be taken to protect hose from severe end loads for which the hose or hose assembly were not designed. Hose should be used at or below its rated working pressure; any changes in pressure should be made gradually so as not to subject the hose to excessive surge pressures. Hose should not be kinked or be run over by equipment. In handling the large size hose, dollies should be used whenever possible; slings or handling rigs, properly placed, should be used to support heavy hose used in oil suction and discharge service.

General Test & Inspection Procedures

An inspection and hydrostatic test should be made at periodic intervals to determine if a hose is suitable for continued service. A visual inspection of the hose should be made for loose covers, kinks, bulges, or soft spots which might indicate broken or displaced reinforcement. The couplings or fittings should be closely examined and, if there is any sign of movement of the hose from the couplings, the hose should be removed from service. The periodic inspection should include a hydrostatic test for one minute at 150% of the recommended working pressure of the hose. An exception to this would be the woven jacketed fire hose.* During the hydrostatic test, the hose should be straight, not coiled or in a kinked position. Water is the usual test medium and, following the test, the hose may be flushed with alcohol to remove traces of moisture. A regular schedule for testing should be followed and inspection records maintained.

Safety Warning: Before conducting any pressure tests on hose, provision must be made to ensure the safety of the personnel performing the tests and to prevent any possible damage to property. Only trained personnel using proper tools and procedures should conduct any pressure tests.

1. Air or any other compressible gas must never be used as the test media because of the explosive action of the gas should a failure occur. Such a failure might result in possible damage to property and serious bodily injury.

2. Air should be removed from the hose by bleeding it through an outlet valve while the hose is being filled with the test medium.

3. Hose to be pressure tested must be restrained by placing steel rods or straps close to each end and at approximate 10' (3m) intervals along its length to keep the hose from "whipping" if failure occurs; the steel rods or straps are to be anchored firmly to the test structure but in such a manner that they do not contact the hose which must be free to move.

4. The outlet end of hose is to be bulwarked so that a blown-out fitting will be stopped.

5. Provisions must be made to protect testing personnel from the forces of the pressure media if a failure occurs.

6. Testing personnel must never stand in front of or in back of the ends of a hose being pressure tested.

7. If liquids such as gasoline, oil, solvent, or other hazardous fluids are used as a test fluid, precautions must be taken to protect against fire or other damage should a hose assembly fail and the test liquid be sprayed over the surrounding area.

Storage

Rubber hose products in storage can be affected adversely by temperature, humidity, ozone, sunlight, oils, solvents, corrosive liquids and fumes, insects, rodents and radioactive materials.

The appropriate method for storing hose depends to a great extent on the size (diameter and length), the quantity to be stored, and the way in which it is packaged. Hose should not be piled or stacked to such an extent that the weight of the stack creates distortions on the lengths stored at the bottom.

Since hose products vary considerably in size, weight and length, it is not practical to establish definite recommendations on this point. Hose having a very light wall will not support as much load as could a hose having a heavier wall or hose having a wire reinforcement. Hose which is shipped in coils or bales should be stored so that the coils are in a horizontal plane.

Whenever feasible, rubber hose products should be stored in their original shipping containers, especially when such containers are wooden crates or cardboard cartons which provide some protection against the deteriorating effects of oils, solvents, and corrosive liquids; shipping containers also afford some protection against ozone and sunlight.

Certain rodents and insects will damage rubber hose products and adequate protection from them should be provided.

Cotton jacketed hose should be protected against fungal growths if the hose is to be stored for prolonged periods in humidity conditions in excess of 70%

The ideal temperature for storage of rubber product ranges from 50° to 70°F (10-21°C) with a maximum limit of 100°F (38°C). If stored below 32°F (0°C), some rubber products become stiff and would require warming before being placed in service. Rubber products should not be stored near sources of heat, such as radiators, base heaters, etc., nor should they be stored under conditions of high or low humidity.

To avoid adverse effects of high ozone concentration, rubber hose products should not be stored near electrical equipment that may generate ozone or be stored for any lengthy period in geographical areas of known high ozone concentration.

Hose should not be stored in locations where the ozone level exceeds the National Institute of Occupational Safety and Health's upper limit of 0.10 ppm. Exposure to direct or reflected sunlight-even through windows should also be avoided. Uncovered hose should not be stored under fluorescent or mercury lamps which generate light waves harmful to rubber.

Storage areas should be relatively cool and dark, and free from dampness and mildew. Items should be stored on a first-in, first-out basis, since even under the best of conditions, an unusually long shelf life could deteriorate certain rubber products.

*Woven jacket fire hose should be tested in accordance with the service test provisions contained in the current edition of the National Fire Protection Association Bulletin No. 1962 - Standard for the Care, Use and Service Testing of Fire Hose.

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AIR HOSE

POWERING GLOBAL INDUSTRY

FOR THE TRANSFER OF AIR, WATER & MODERATE CHEMICAL SOLUTIONS

Hoses are constantly being upgraded. Jason Industrial reserves the right to make changes in construction without prior notice.

POWERING GLOBAL INDUSTRY

AIR HOSE

4103 RED PVC AIR HOSE - MEDIUM OIL RESISTANT

CONSTRUCTION: Tube and cover are PVC, smooth, medium oil resistance, ARPM Class C. Cover is red. Reinforcement is one braid, synthetic material.

TEMPERATURE: -15°F (-26°C) to +150°F (+66°C)

BRANDING: ID XX" (XXmm) Jason logo WP PSI 4103 (Country of Origin).

APPLICATION: General purpose use, including air, water and mild chemical applications.

FEATURES:

- Oil mist resistant tube.
- Non-marking cover.
- Ozone and weather resistant.
- Resistant to ultra-violet (UV) light rays.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Braids	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4103-0025-328	1/4	6.35	0.44	11.18	1	300	20.68	n/a	0.07	0.10	1.70	43.20	328
4103-0031-328	5/16	7.94	0.50	12.70	1	300	20.68	n/a	0.08	0.12	2.10	53.30	328
4103-0037-328	3/8	9.53	0.59	14.99	1	300	20.68	n/a	0.10	0.15	2.50	63.50	328
4103-0050-328	1/2	12.70	0.75	19.05	1	300	20.68	n/a	0.16	0.24	3.30	83.80	328
4103-0062-328	5/8	15.88	0.91	23.11	1	300	20.68	n/a	0.22	0.33	4.20	106.70	328
4103-0075-164	3/4	19.05	1.05	26.59	1	215	14.81	n/a	0.28	0.42	5.00	127.00	164
4103-0100-164	1	25.40	1.33	33.73	1	170	11.71	n/a	0.41	0.61	6.70	170.20	164
Coupled 1/4" Male NPT x 1/4" Male NPT x 50' Hose Assembly													
4103-037450	3/8	9.53	0.59	14.99	1	300	20.68	n/a	0.10	0.15	2.50	63.50	50

***MBR = Minimum Bend Radius**
Working pressure is temperature dependent. See page 5 for more information.

All sizes may not be stocked in all locations. Check with customer service for availability.
We disclaim any liability for use of our products in applications other than which they are designed.

4102 MULTI-PURPOSE TPR HOSE - BLACK

CONSTRUCTION: Tube and cover are TPR (NBR/PVC), smooth, high oil resistance, ARPM Class A. Cover is black. Reinforcement is one braid, synthetic material.

TEMPERATURE: -15°F (-26°C) to +176°F (+80°C)

BRANDING: ID XX" (XXmm) Jason logo WP PSI 4102 (Country of Origin).

APPLICATION: For air, oil and medium grade fuels used in construction, shipyards, mining and agriculture.

FEATURES:

- Class A oil mist resistant tube and cover.
- Ozone and weather resistant.
- Resistant to ultra-violet (UV) light rays.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Braids	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4102-0025-328	1/4	6.35	0.44	11.18	1	300	20.68	n/a	0.07	0.10	1.70	43.20	328
4102-0031-328	5/16	7.94	0.50	12.70	1	300	20.68	n/a	0.08	0.12	2.10	53.30	328
4102-0037-328	3/8	9.53	0.59	14.99	1	300	20.68	n/a	0.10	0.15	2.50	63.50	328
4102-0050-328	1/2	12.70	0.75	19.05	1	300	20.68	n/a	0.16	0.24	3.30	83.80	328
4102-0062-328	5/8	15.88	0.91	23.11	1	300	20.68	n/a	0.22	0.33	4.20	106.70	328
4102-0075-164	3/4	19.05	1.05	26.59	1	215	14.81	n/a	0.28	0.42	5.00	127.00	164
4102-0100-164	1	25.40	1.33	33.73	1	170	11.71	n/a	0.41	0.61	6.70	170.20	164

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AIR HOSE

4105 MULTI-PURPOSE TPR HOSE - RED

CONSTRUCTION: Tube and cover are TPR (NBR/PVC), smooth, high oil resistance, ARPM Class A. Cover is red. Reinforcement is one braid, synthetic material.

TEMPERATURE: -15°F (-26°C) to +176°F (+80°C)

BRANDING: 4105 Jason logo JASON ID in. (mm.) WP PSI MULTIPURPOSE-AIR-WATER-PETROLEUM ARPM CLASS A

APPLICATION: For air, oil and medium grade fuels used in construction, shipyards, mining and agriculture.

FEATURES:

- Class A oil mist resistant tube and cover.
- Non-marking cover.
- Ozone and weather resistant.
- Resistant to ultra-violet (UV) light rays.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Braids	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4105-0025-328	1/4	6.35	0.44	11.18	1	300	20.68	n/a	0.07	0.10	1.70	43.20	328
4105-0031-328	5/16	7.94	0.50	12.70	1	300	20.68	n/a	0.08	0.12	2.10	53.30	328
4105-0037-328	3/8	9.53	0.59	14.99	1	300	20.68	n/a	0.10	0.15	2.50	63.50	328
4105-0050-328	1/2	12.70	0.75	19.05	1	300	20.68	n/a	0.16	0.24	3.30	83.80	328
4105-0075-164	3/4	19.05	1.05	26.59	1	215	14.81	n/a	0.28	0.42	5.00	127.00	164
4105-0100-164	1	25.40	1.33	33.73	1	170	11.71	n/a	0.41	0.61	6.70	170.20	164

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4121 JACKHAMMER HOSE ASSEMBLY - YELLOW
4122 JACKHAMMER HOSE ASSEMBLY - RED

CONSTRUCTION: Tube is an SBR/NBR blend. Cover is EPDM, yellow or red. Reinforcement is a two-spiral polyester yarn. Crimped coupling with universal end.

TEMPERATURE: -22°F (-30°C) to +176°F (+80°C)

BRANDING: ID 4121 or 4122 300 PSI WP Production Date.

APPLICATION: For jackhammer applications.

FEATURES:

- Coupling crimped:
  - Better hose/coupling retention
  - No snagging
  - No leaking
- Easy to handle.
- Weather, heat and ozone resistant.
- Excellent abrasion resistance.
- Hose WP is 300 PSI.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Spirals	Max W.P. @68°F** PSI	Max W.P. @68°F** BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
YELLOW 4121-0075-050	3/4	19.05	1.16	29.50	2	150	10.35	n/a	0.54	0.80	5.00	127.00	50
RED 4122-0075-050	3/4	19.05	1.16	29.50	2	150	10.35	n/a	0.54	0.80	5.00	127.00	50

****Assembly working pressure. Hose WP is 300 PSI**
Safety clip and lanyard not supplied. For safety reasons, please follow all OSHA regulations.

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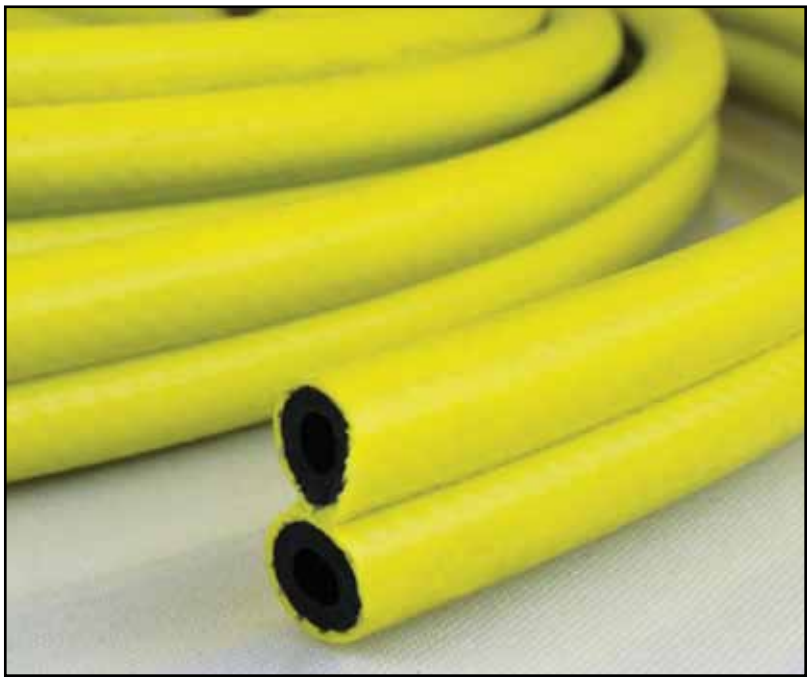
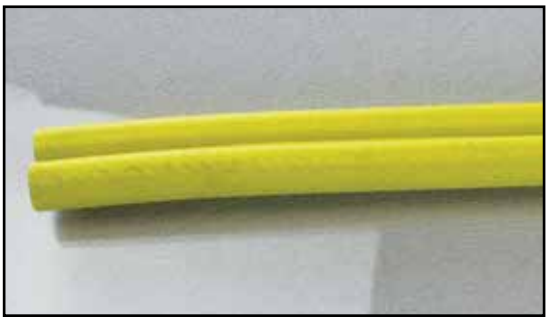
AIR HOSE

4142 BULK PNEUMATIC DEADMAN TWINLINE HOSE





CONSTRUCTION: Tube and cover are TPR (NBR/PVC). Cover is yellow. Reinforcement is two spirals, synthetic fabric.

TEMPERATURE: -25°F (-32°C) to +180°F (+82°C)

BRANDING: Country of Origin

APPLICATION: Used to pneumatically engage or disengage the remote control on sandblast machines.

FEATURES:

- Oil resistant.
- Bright yellow non-marking cover.
- Siamese two line construction.
- Heavy duty cover makes this a durable hose.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Spirals	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4142-0188-328	3/16	4.76	0.42	10.72	2	300	20.68	n/a	0.10	0.15	1.30	31.80	328

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POWERING GLOBAL INDUSTRY

4302 TEXTILE REINFORCED AIR HOSE - 400 PSI

CONSTRUCTION: Tube is a nitrile blend, smooth and black. Cover is SBR, fabric impression, yellow, pin-pricked. Reinforcement is a two-ply synthetic fabric.

TEMPERATURE: -25°F (-32°C) to +200°F (+93°C)

BRANDING: Jason logo 4302 TEXTILE AIR WP (PSI) (BAR). Blue mylar longitudinal stripe.

APPLICATION: For tough applications in mines and quarries.

FEATURES:

- Oil mist resistant tube.
- Bright yellow non-marking cover.
- Medium high working pressure.
- Weather and ozone resistant.
- Excellent abrasion resistance.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Plies	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4302-0050-050	1/2	12.70	0.91	23.11	2	400	27.58	n/a	0.32	0.48	6.00	152.40	50
4302-0075-050	3/4	19.05	1.18	29.97	2	400	27.58	n/a	0.40	0.60	7.50	190.00	50
4302-0100-050	1	25.40	1.46	37.08	2	400	27.58	n/a	0.54	0.80	10.00	254.00	50
4302-0150-050	1-1/2	38.10	2.05	52.07	2	400	27.58	n/a	0.92	1.37	15.00	280.00	50
4302-0200-050	2	50.80	2.64	67.06	2	400	27.58	n/a	1.37	2.04	20.00	508.00	50

***MBR = Minimum Bend Radius**

Working pressure is temperature dependent. See page 5 for more information.

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POWERING GLOBAL INDUSTRY

AIR HOSE

4305 TEXTILE REINFORCED AIR HOSE - 300 PSI

CONSTRUCTION: Tube is a nitrile blend, smooth and black. Cover is Nitrile/SBR, fabric impression, yellow, pin-pricked. Reinforcement is a two-ply synthetic fabric.

TEMPERATURE: -25°F (-32°C) to +200°F (+93°C)

BRANDING: Jason logo 4305 TEXTILE AIR WP (PSI) (BAR). Blue mylar longitudinal stripe.

APPLICATION: For rugged air line service in mining, quarries, construction, sandblasting, industrial air placement and equipment rental.

FEATURES:

- Oil mist resistant tube.
- Bright yellow non-marking cover.
- Weather and ozone resistant.
- Excellent abrasion resistance.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Plies	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4305-0050-100	1/2	12.70	0.91	23.11	2	300	24.13	n/a	0.32	0.48	6.00	152.40	100
4305-0075-100	3/4	19.05	1.18	29.97	2	300	24.13	n/a	0.40	0.60	7.50	190.00	100
4305-0100-050	1	25.40	1.46	37.08	2	300	24.13	n/a	0.54	0.80	10.00	254.00	50
4305-0100-100	1	25.40	1.46	37.08	2	300	24.13	n/a	0.54	0.80	10.00	254.00	100
4305-0125-100	1-1/4	31.75	1.81	45.97	2	300	24.13	n/a	0.81	1.21	12.50	320.00	100
4305-0150-100	1-1/2	38.10	2.05	52.07	2	300	24.13	n/a	0.92	1.37	15.00	381.00	100
4305-0200-100	2	50.80	2.64	67.06	2	300	24.13	n/a	1.37	2.04	20.00	508.00	100
4305-0250-100	2-1/2	63.50	3.15	80.01	2	300	24.13	n/a	1.69	2.51	25.00	635.00	100
4305-0300-050	3	76.20	3.70	93.98	2	300	24.13	n/a	2.16	3.21	30.00	762.00	50
4305-0300-100	3	76.20	3.70	93.98	2	300	24.13	n/a	2.16	3.21	30.00	762.00	100

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POWERING GLOBAL INDUSTRY

4805 WIRE REINFORCED AIR HOSE

CONSTRUCTION: Tube is nitrile blend, smooth and black. Cover is SBR, yellow, fabric impression and pin-pricked. Reinforcement is two spiral wires.

TEMPERATURE: -25°F (-32°C) to +200°F (+93°C)

BRANDING: Jason logo 4805 WIRE AIR WP (PSI) (BAR).

APPLICATION: For heavy duty air supply in mining, quarries, construction, industrial air place ment, sandblasting and heavy duty equipment rental.

FEATURES:

- Oil mist resistant tube with high working pressure.
- Bright yellow non-marking cover.
- Heavy duty cover makes this a durable hose.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Spirals	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4805-0050-050	1/2	12.70	0.91	23.11	2	600	41.37	n/a	0.36	0.54	5.50	140.00	50
4805-0050-100	1/2	12.70	0.91	23.11	2	600	41.37	n/a	0.36	0.54	5.50	140.00	100
4805-0075-050	3/4	19.05	1.22	30.99	2	600	41.37	n/a	0.60	0.89	8.30	210.00	50
4805-0075-100	3/4	19.05	1.22	30.99	2	600	41.37	n/a	0.60	0.89	8.30	210.00	100
4805-0100-050	1	25.40	1.49	37.85	2	600	41.37	n/a	0.80	1.19	11.00	280.00	50
4805-0100-100	1	25.40	1.49	37.85	2	600	41.37	n/a	0.80	1.19	11.00	280.00	100
4805-0125-050	1-1/4	31.75	1.81	45.97	2	600	41.37	n/a	1.05	1.56	13.80	350.00	50
4805-0125-100	1-1/4	31.75	1.81	45.97	2	600	41.37	n/a	1.05	1.56	13.80	350.00	100
4805-0150-050	1-1/2	38.10	2.04	51.82	2	600	41.37	n/a	1.24	1.85	16.50	420.00	50
4805-0150-100	1-1/2	38.10	2.04	51.82	2	600	41.37	n/a	1.24	1.85	16.50	420.00	100
4805-0200-050	2	50.80	2.60	66.04	2	600	41.37	n/a	1.80	2.68	22.00	560.00	50
4805-0200-100	2	50.80	2.60	66.04	2	600	41.37	n/a	1.80	2.68	22.00	560.00	100
4805-0250-050	2-1/2	63.50	3.15	80.01	2	600	41.37	n/a	2.40	3.57	27.50	700.00	50
4805-0250-100	2-1/2	63.50	3.15	80.01	2	600	41.37	n/a	2.40	3.57	27.50	700.00	100
4805-0300-050	3	76.20	3.70	93.98	2	600	41.37	n/a	3.22	4.79	33.10	840.00	50
4805-0300-100	3	76.20	3.70	93.98	2	600	41.37	n/a	3.22	4.79	33.10	840.00	100
4805-0400-050	4	101.60	4.88	123.95	2	600	41.37	n/a	4.70	6.99	44.10	1120.00	50
4805-0400-100	4	101.60	4.88	123.95	2	600	41.37	n/a	4.70	6.99	44.10	1120.00	100
4805-0600-050	6	152.40	6.89	175.01	2	600	41.37	n/a	6.82	10.14	63.00	1600.20	50
4805-0600-100	6	152.40	6.89	175.01	2	600	41.37	n/a	6.82	10.14	63.00	1600.20	100

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POWERING GLOBAL INDUSTRY

AIR HOSE

4807 HI-TEMP AIR HOSE - WIRE REINFORCED

CONSTRUCTION: Tube is a hydraulic oil resistant, high heat synthetic rubber. Cover is EPDM, yellow, pin-pricked. Reinforcement is a two-spiral wire.

TEMPERATURE: -40°F (-40°C) to +275°F (+135°C)

BRANDING: Jason logo 4807 HIGH HEAT WIRE AIR 275°F (+135°C) 600 PSI/41.4 BAR. Green mylar longitudinal stripe.

APPLICATION: For heavy duty air supply where high temperature is required. For use with high-temperature compressors without an after-cooler, mining, quarries, construction, industrial air placement, sand blasting and heavy duty equipment.

FEATURES:

- Hydraulic oil resistant tube.
- Bright yellow non-marking cover.
- High working pressure.
- Extreme heat resistance.
- Abrasion and ozone resistant.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Spirals	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4807-0075-050	3/4	19.05	1.42	36.00	2	600	41.37	n/a	0.60	0.89	8.30	210.00	50
4807-0075-100	3/4	19.05	1.42	36.00	2	600	41.37	n/a	0.60	0.89	8.30	210.00	100
4807-0100-050	1	25.40	1.93	49.00	2	600	41.37	n/a	0.80	1.19	11.00	280.00	50
4807-0100-100	1	25.40	1.93	49.00	2	600	41.37	n/a	0.80	1.19	11.00	280.00	100
4807-0200-050	2	50.80	2.48	63.00	2	600	41.37	n/a	1.80	2.68	22.00	560.00	50
4807-0200-100	2	50.80	2.48	63.00	2	600	41.37	n/a	1.80	2.68	22.00	560.00	100
4807-0300-050	3	76.20	3.50	89.00	2	600	41.37	n/a	3.22	4.79	33.10	840.00	50
4807-0300-100	3	76.20	3.50	89.00	2	600	41.37	n/a	3.22	4.79	33.10	840.00	100

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CHEMICAL HOSE

POWERING GLOBAL INDUSTRY

FOR IN-PLANT OR TANK TRUCK USE TO TRANSFER CHEMICALS & SOLVENTS

Hoses are constantly being upgraded. Jason Industrial reserves the right to make changes in construction without prior notice.

POWERING GLOBAL INDUSTRY

CHEMICAL HOSE

4430 CROSS-LINKED POLYETHYLENE SUCTION HOSE

CONSTRUCTION: Tube is clear, smooth cross-linked polyethylene (XLPE). Cover is EPDM, green with fabric impression. Reinforcement is two plies of synthetic fabric with a wire helix and a copper static wire.

TEMPERATURE: -40°F (-40°C) to +150°F (+66°C)

BRANDING: Jason logo 4430 XLPE ACID CHEMICAL ID WP (PSI) (BAR). Blue mylar longitudinal stripe.

APPLICATION: For in-plant or tank truck use to transfer chemicals and solvents.

FEATURES:

- Versatile, it handles a variety of chemicals.
- Handles 90% of the chemical/acid applications.
- Reduces the need to stock several types of chemical hoses.
- EPDM cover is heat, weather & abrasion resistant.
- All sizes are full vacuum.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Plies	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4430-0075-100	3/4	19.05	1.19	30.23	2	200	13.79	29.9	0.36	0.54	6.00	152.40	100
4430-0100-100	1	25.40	1.50	38.10	2	200	13.79	29.9	0.49	0.73	6.50	165.10	100
4430-0125-100	1-1/4	31.75	1.75	44.45	2	200	13.79	29.9	0.55	0.82	9.00	228.60	100
4430-0150-100	1-1/2	38.10	2.09	53.09	2	200	13.79	29.9	0.69	1.03	10.00	254.00	100
4430-0200-100	2	50.80	2.61	66.29	2	200	13.79	29.9	0.98	1.46	12.00	304.80	100
4430-0250-100	2-1/2	63.50	3.19	81.03	2	150	10.35	29.9	1.35	2.01	15.00	381.00	100
4430-0300-100	3	76.20	3.75	95.25	2	150	10.35	29.9	1.90	2.83	16.00	406.40	100
4430-0400-100	4	101.60	4.88	123.95	2	150	10.35	29.9	2.57	3.82	18.00	457.20	100

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CHEMICAL HOSE

POWERING GLOBAL INDUSTRY

4433 UHMWPE CHEMICAL SUCTION HOSE

CONSTRUCTION: Tube is an Ultra-High Molecular Weight Polyethylene (UHMWPE). Cover is EPDM, blue and corrugated. Reinforcement is a two-ply synthetic fabric with a wire helix.

TEMPERATURE: -40°F (-40°C) to +150°F (+66°C)

BRANDING: Jason logo 4433 UHMWPE ACID CHEMICAL ID WP (PSI) (BAR). Orange mylar longitudinal stripe.

APPLICATION: For in-plant or tank truck use to transfer chemicals and solvents.

FEATURES:

- Corrugations make the hose flexible.
- Handles 98% of the chemical/acid applications.
- Reduces the need to stock several types of chemical hoses.
- EPDM cover is heat, weather & abrasion resistant.
- All sizes are full vacuum.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Plies	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4433-0075-100	3/4	19.05	1.14	28.96	2	200	13.79	29.9	0.38	0.57	6.00	152.40	100
4433-0100-100	1	25.40	1.46	37.08	2	200	13.79	29.9	0.50	0.74	6.50	165.10	100
4433-0125-100	1-1/4	31.75	1.77	44.96	2	200	13.79	29.9	0.58	0.86	9.00	228.60	100
4433-0150-100	1-1/2	38.10	2.05	52.07	2	200	13.79	29.9	0.71	1.06	10.00	254.00	100
4433-0200-100	2	50.80	2.64	67.06	2	200	13.79	29.9	1.01	1.50	12.00	304.80	100
4433-0250-100	2-1/2	63.50	3.15	80.01	2	200	13.79	29.9	1.46	2.17	15.00	381.00	100
4433-0300-100	3	76.20	3.86	98.04	2	200	13.79	29.9	1.97	2.93	16.00	406.40	100
4433-0400-100	4	101.60	4.72	119.89	2	150	10.35	29.9	2.60	3.87	18.00	457.20	100

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POWERING GLOBAL INDUSTRY

FOOD HOSE

FOR IN-PLANT OR TANK TRUCK USE TO TRANSFER FOOD GRADE PRODUCTS

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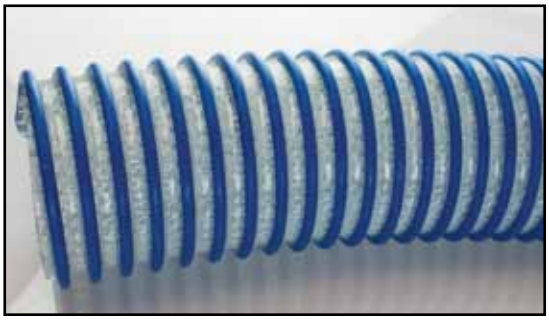
POWERING GLOBAL INDUSTRY

3000 POLYURETHANE FDA USDA MATERIAL HANDLING HOSE - SΩ



CONSTRUCTION: Polyurethane tube with high tensile strength polyester yarn reinforcement. Clockwise PVC helix with SΩ ground wire.

TEMPERATURE: -40°F (-40°C) to +140°F (+60°C)

APPLICATION: Heavy duty food grade material handling, railcar unloading, abrasive suction and transfer.

FEATURES:

- Meets FDA requirements.
- Approved by USDA for use in meat & poultry plants.
- Clear visual flow and higher transfer pressures.
- Safety Ohm (SΩ) ground wire embedded into the hose wall to help prevent the build-up of static electricity. SΩ wire must be secured to ground to dissipate static electricity.
- -40°F cold weather resistance with sub-zero flexibility.
- Easy to drag with "Go-Glide" external clockwise PVC helix.
- Vacuum up to 29" of Hg.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Braids	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
3000-0300-100	3	76.20	3.80	96.52	1	70	4.83	29.0	1.20	1.79	4.00	101.60	100
3000-0400-100	4	101.60	4.85	123.19	1	65	4.48	29.0	1.60	2.38	6.00	152.40	100
3000-0500-020	5	127.00	5.80	147.32	1	45	3.10	29.0	2.46	3.66	10.00	254.00	20
3000-0500-050	5	127.00	5.80	147.32	1	45	3.10	29.0	2.46	3.66	10.00	254.00	50
3000-0500-100	5	127.00	5.80	147.32	1	45	3.10	29.0	2.46	3.66	10.00	254.00	100
3000-0600-050	6	152.40	6.92	175.77	1	40	2.76	29.0	2.86	4.26	12.00	304.80	50
3000-0600-100	6	152.40	6.92	175.77	1	40	2.76	29.0	2.86	4.26	12.00	304.80	100

***MBR = Minimum Bend Radius** **SΩ = Safety OHM**

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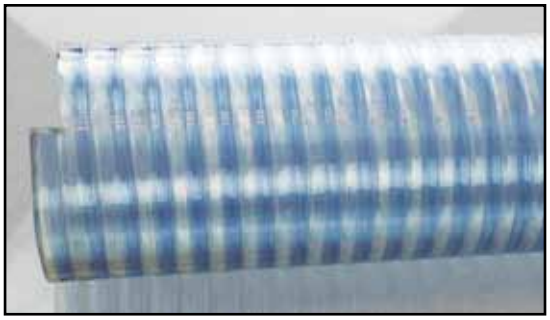
POWERING GLOBAL INDUSTRY

FOOD HOSE

3010 HD PVC FDA USDA 3-A LIQUID FOOD SUCTION HOSE



CONSTRUCTION: PVC tube with a sturdy clockwise PVC helix.

TEMPERATURE: -5°F (-23°C) to +140°F (+60°C)

APPLICATION: Transfer of food grade liquids, such as juices, wine, beer and potable water and dairy products.

FEATURES:

- Meets FDA requirements.
- Approved by USDA for use in meat and poultry plants.
- Meets 3-A sanitary standards, which includes processing dairy products.
- Clear visual flow.
- Vacuum up to 29" of Hg.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein.	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
3010-0100-100	1	25.40	1.24	31.50	PVC Helix	71	4.90	29.9	0.26	0.39	3.00	76.20	100
3010-0125-100	1-1/4	31.75	1.54	39.12	PVC Helix	64	4.41	29.9	0.34	0.51	4.00	101.60	100
3010-0150-100	1-1/2	38.10	1.82	46.23	PVC Helix	57	3.93	29.9	0.44	0.65	6.00	152.40	100
3010-0200-100	2	50.80	2.39	60.71	PVC Helix	57	3.93	29.9	0.74	1.10	8.00	203.20	100
3010-0250-100	2-1/2	63.50	2.93	74.42	PVC Helix	57	3.93	29.9	1.01	1.50	10.00	254.00	100
3010-0300-100	3	76.20	3.43	87.12	PVC Helix	57	3.93	29.9	1.21	1.80	12.00	304.80	100
3010-0400-100	4	101.60	4.53	115.06	PVC Helix	43	2.97	29.9	2.02	3.01	15.00	381.00	100

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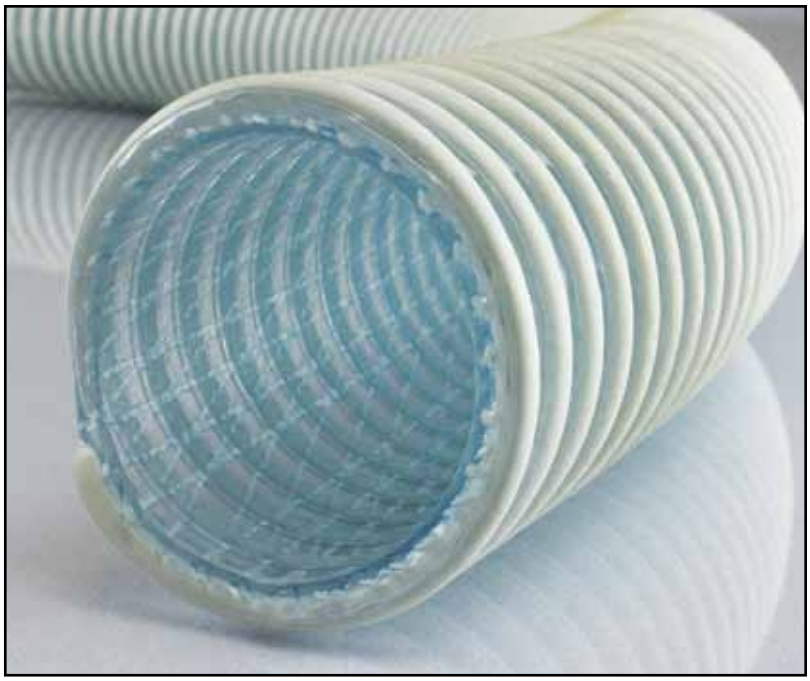
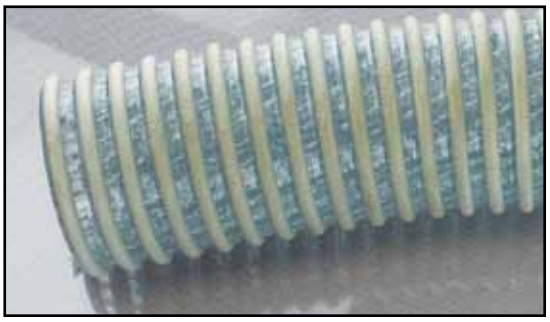
POWERING GLOBAL INDUSTRY

3012 PVC FDA 3-A LIQUID SUCTION HOSE - SΩ





CONSTRUCTION: Non-toxic food grade PVC helix (white) and PVC tube. Reinforcement is one synthetic braid.

TEMPERATURE: -50°F (-46°C) to +150°F (+66°C)

BRANDING: None

APPLICATION: Food handling and heavy duty suction and discharge applications. Also for processing wine, beer, food paste, dairy and syrup.

FEATURES:

- Meets FDA, USDA and 3-A sanitary standards.
- Clear, visual flow.
- Easy to drag with "Go-Glide" external clockwise PVC helix.
- Vacuum rating up to 29" of HG.
- Safety Ohm (SΩ) embedded ground wire.
- -50°F cold weather resistant and still flexible.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Braids	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
3012-0150-100	1-1/2	38.10	2.03	51.56	1	110	7.58	29.0	0.47	0.70	2.50	63.50	100
3012-0200-100	2	50.80	2.60	66.04	1	100	6.89	29.0	0.69	1.02	4.00	101.60	100
3012-0300-100	3	76.20	3.70	93.98	1	100	6.89	28.0	1.13	1.68	6.00	152.40	100
3012-0400-100	4	101.60	4.78	121.41	1	80	5.51	28.0	1.74	2.58	7.00	177.80	100
3012-0500-100	5	127.00	6.04	153.42	1	70	4.83	28.0	2.99	4.44	9.00	228.60	100

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POWERING GLOBAL INDUSTRY

FOOD HOSE

4511 FDA BRAIDED PVC HOSE

CONSTRUCTION: Tube and cover are crystal clear, non-toxic FDA Grade. Reinforcement one braid of synthetic material.

TEMPERATURE: -14°F (-26°C) to +140°F (+60°C)

BRANDING: Jason logo WP (PSI) FDA NON-TOXIC, Country of Origin.

APPLICATION: Food and beverage dispensing, potable water, air, breathing lines, packaging and equipment, lube lines and other visual flow applications.

FEATURES:

- One piece coils.
- FDA Grade tube and cover.
- Resists chemical, ozone and weathering.
- Capable of handling a wide variety of food products.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Braids	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4511-0251	1/4	6.35	0.45	11.43	1	250	17.24	n/a	0.04	0.06	n/a	n/a	300
4511-0311	5/16	7.94	0.47	11.94	1	250	17.24	n/a	0.05	0.07	n/a	n/a	300
4511-0381	3/8	9.53	0.55	13.97	1	200	13.79	n/a	0.07	0.10	n/a	n/a	300
4511-0501	1/2	12.70	0.69	17.53	1	150	10.35	n/a	0.10	0.15	n/a	n/a	300
4511-0631	5/8	15.88	0.82	20.83	1	150	10.35	n/a	0.12	0.18	n/a	n/a	300
4511-0751	3/4	19.05	0.99	25.15	1	150	10.35	n/a	0.18	0.27	n/a	n/a	300
4511-1001	1	25.40	1.28	32.51	1	125	8.62	n/a	0.27	0.40	n/a	n/a	300
4511-1251	1-1/4	31.75	1.61	40.89	1	100	6.89	n/a	0.44	0.65	n/a	n/a	100
4511-1501	1-1/2	38.10	1.85	46.99	1	70	4.83	n/a	0.51	0.76	n/a	n/a	100
4511-2001	2	50.80	2.39	60.71	1	60	4.14	n/a	0.74	1.10	n/a	n/a	100

***MBR = Minimum Bend Radius**
Working pressure is temperature dependent. See page 5 for more information.

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POWERING GLOBAL INDUSTRY

4600 FDA SPRING WIRE PVC HOSE

CONSTRUCTION: Tube and cover are crystal clear, FDA Grade. Reinforcement is electro-galvanized spring steel wire.

TEMPERATURE: -14°F (-26°C) to +140°F (+60°C)

BRANDING: None

APPLICATION: Food and beverage dispensing, air, water, coolant, car wash, deionized water systems and other clear flow applications.

FEATURES:

- Clear food grade PVC allows for visual flow inspection.
- Spring steel wire prevents kinking and collapsing.
- All sizes are full vacuum.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein.	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4600-0380	3/8	9.53	0.63	16.00	Wire Spring	100	6.89	29.0	0.10	0.15	0.80	19.10	100
4600-0500	1/2	12.70	0.71	18.03	Wire Spring	100	6.89	29.0	0.13	0.19	1.00	25.40	100
4600-0630	5/8	15.88	0.90	22.86	Wire Spring	100	6.89	29.0	0.17	0.25	1.20	30.00	100
4600-0750	3/4	19.05	1.06	26.92	Wire Spring	100	6.89	29.0	0.24	0.36	1.30	34.00	100
4600-1000	1	25.40	1.31	33.27	Wire Spring	75	5.17	29.0	0.34	0.51	1.70	41.90	100
4600-1250	1-1/4	31.75	1.61	40.89	Wire Spring	75	5.17	29.0	0.50	0.74	2.00	50.80	50
4600-1500	1-1/2	38.10	1.85	46.99	Wire Spring	50	3.45	29.0	0.55	0.82	2.50	63.50	50
4600-2000	2	50.80	2.36	59.94	Wire Spring	50	3.45	29.0	0.84	1.25	3.20	82.00	50
4600-2500	2-1/2	63.50	2.97	75.44	Wire Spring	50	3.45	29.0	1.21	1.80	5.50	139.70	50
4600-3000	3	76.20	3.51	89.15	Wire Spring	50	3.45	29.0	1.48	2.20	6.50	165.10	50
4600-3500	3-1/2	88.90	4.09	103.89	Wire Spring	50	3.45	29.0	1.95	2.90	7.50	190.50	50
4600-4000	4	101.60	4.57	116.08	Wire Spring	50	3.45	29.0	2.18	3.24	8.50	215.90	50

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POWERING GLOBAL INDUSTRY

FOOD HOSE

4460 FDA BULK FOOD SUCTION HOSE

CONSTRUCTION: Tube is white natural rubber (NR), 3/16" thick, FDA Grade. Cover is natural rubber, gray with flat corrugations. Two-ply reinforcement with a steel wire helix.

TEMPERATURE: -40°F (-40°C) to +150°F (+66°C)

BRANDING: Jason logo 4460 FDA ID 3/16" Tube BULK FOOD SUCTION WP (PSI) (BAR). Orange mylar longitudinal stripe.

APPLICATION: For suction, pneumatic or gravity transfer of flour, sugar, syrup or edible grains.

FEATURES:

- Corrugations make the hose extremely flexible.
- FDA Grade tube, natural rubber.
- Natural rubber cover is weather and abrasion resistant.
- All sizes are full vacuum.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Plies	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4460-0100-100	1	25.40	1.49	37.85	2	150	10.35	29.0	0.69	1.03	4.50	114.30	100
4460-0150-100	1-1/2	38.10	2.05	52.07	2	150	10.35	29.0	0.98	1.46	5.00	127.00	100
4460-0200-100	2	50.80	2.66	67.56	2	150	10.35	29.0	1.37	2.04	6.00	152.40	100
4460-0200-200	2	50.80	2.66	67.56	2	150	10.35	29.0	1.37	2.04	6.00	152.40	200
4460-0250-100	2-1/2	63.50	3.07	77.98	2	150	10.35	29.0	1.67	2.49	8.00	203.20	100
4460-0300-100	3	76.20	3.62	91.95	2	150	10.35	29.0	2.14	3.18	10.00	254.00	100
4460-0350-100	3-1/2	88.90	4.21	106.93	2	150	10.35	29.0	2.60	3.87	12.00	304.80	100
4460-0400-100	4	101.60	4.72	119.89	2	150	10.35	29.0	3.14	4.67	20.00	508.00	100
4460-0450-060	4-1/2	114.30	5.27	133.86	2	150	10.35	29.0	3.94	5.86	22.00	558.80	60
4460-0500-100	5	127.00	5.71	145.03	2	150	10.35	29.0	4.67	6.95	24.00	609.60	100
4460-0600-020	6	152.40	6.77	171.96	2	150	10.35	29.0	5.98	8.90	26.00	660.40	20
4460-0600-100	6	152.40	6.77	171.96	2	150	10.35	29.0	5.98	8.90	26.00	660.40	100
4460-0662-020	6-5/8	168.28	7.52	191.01	2	150	10.35	29.0	7.31	10.88	29.00	736.60	20
4460-0688-020	6-7/8	174.63	7.80	198.13	2	150	10.35	29.0	7.81	11.58	30.00	762.60	20
4460-0800-020	8	203.20	8.78	223.01	2	150	10.35	29.0	9.36	13.93	32.00	812.80	20
4460-0862-020	8-5/8	219.08	9.33	236.98	2	125	8.62	29.0	9.64	14.35	36.00	914.40	20
4460-1000-020	10	254.00	10.83	275.08	2	125	8.62	29.0	11.57	17.22	44.00	1117.60	20
4460-1200-020	12	304.80	12.83	325.88	2	100	6.89	29.0	15.27	22.72	60.00	1524.00	20
4460-1400-020	14	355.60	14.76	374.90	2	100	6.89	29.0	18.41	27.40	72.00	1828.80	20

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FOOD HOSE

POWERING GLOBAL INDUSTRY

4465 FDA LIQUID FOOD SUCTION HOSE

CONSTRUCTION: Tube is white nitrile rubber FDA Grade. Cover is nitrile, corrugated and white. Two-ply reinforcement with a steel wire helix.

TEMPERATURE: -25°F (-32°C) to +200°F (+93°C)

BRANDING: Jason logo 4465 FDA LIQUID FOOD SUCTION WP 150 PSI 10.35 BAR. Blue mylar longitudinal stripe.

APPLICATION: For suction and discharge of liquid food products, including oily edibles and beer.

FEATURES:

- Corrugations make the hose extremely flexible.
- FDA Grade tube, nitrile rubber.
- Nitrile rubber cover is weather and abrasion resistant.
- All sizes are full vacuum.
- Capable of handling a wide variety of food products.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Plies	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4465-0075-100	3/4	19.05	1.10	28.00	2	150	10.35	29.0	0.34	0.51	2.40	60.00	100
4465-0100-100	1	25.40	1.38	35.00	2	150	10.35	29.0	0.45	0.67	3.10	80.00	100
4465-0150-100	1-1/2	38.10	2.05	52.07	2	150	10.35	29.0	1.06	1.58	4.00	101.60	100
4465-0200-100	2	50.80	2.56	65.02	2	150	10.35	29.0	1.35	2.01	5.00	127.00	100
4465-0300-100	3	76.20	3.56	90.42	2	150	10.35	29.0	2.08	3.10	6.00	152.40	100
4465-0400-100	4	101.60	4.69	119.13	2	150	10.35	29.0	3.21	4.79	8.00	203.20	100

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POWERING GLOBAL INDUSTRY

MATERIAL HANDLING HOSE

FOR THE TRANSFER OF BULK MATERIAL, ABRASIVES, CONCRETE & CEMENT

Hoses are constantly being upgraded. Jason Industrial reserves the right to make changes in construction without prior notice.

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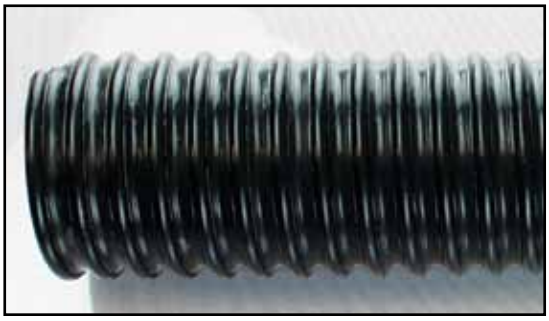
MATERIAL HANDLING HOSE

POWERING GLOBAL INDUSTRY

3020 HD POLYURETHANE LINED, PVC MATERIAL HANDLING HOSE



CONSTRUCTION: Polyurethane abrasion resistant liner with a PVC cover and a sturdy clockwise PVC helix.

TEMPERATURE: -40°F (-40°C) to +140°F (+60°C)

APPLICATION: For vacuum and transfer of abrasive crushed rock, gravel, sand or dry fertilizers, fly ash and also used for shot blast recovery.

FEATURES:

- Abrasion resistant PU liner.
- Static dissipating cover compound.
- -40°F cold weather resistance.
- Sub-zero flexibility.
- Easy to drag with "Glo-Glide" external clockwise PVC helix.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein.	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
3020-0150-100	1-1/2	38.10	1.85	46.99	PVC Helix	50	3.45	29.0	0.42	0.63	2.00	50.80	100
3020-0200-100	2	50.80	2.40	60.96	PVC Helix	40	2.76	29.0	0.59	0.88	3.00	76.20	100
3020-0250-100	2-1/2	63.50	3.09	78.49	PVC Helix	40	2.76	29.0	0.82	1.22	3.00	76.20	100
3020-0300-100	3	76.20	3.64	92.46	PVC Helix	40	2.76	29.0	1.18	1.76	4.00	101.60	100
3020-0400-100	4	101.60	4.76	120.90	PVC Helix	35	2.41	29.0	1.94	2.89	6.00	152.40	100
3020-0600-020	6	152.40	6.80	172.72	PVC Helix	30	2.07	28.0	3.50	5.21	12.00	304.80	20
3020-0600-050	6	152.40	6.80	172.72	PVC Helix	30	2.07	28.0	3.50	5.21	12.00	304.80	50
3020-0600-100	6	152.40	6.80	172.72	PVC Helix	30	2.07	28.0	3.50	5.21	12.00	304.80	100
3020-0800-020	8	203.20	9.16	232.66	PVC Helix	30	2.07	28.0	5.90	8.78	18.00	457.20	20
3020-0800-050	8	203.20	9.16	232.66	PVC Helix	30	2.07	28.0	5.90	8.78	18.00	457.20	50

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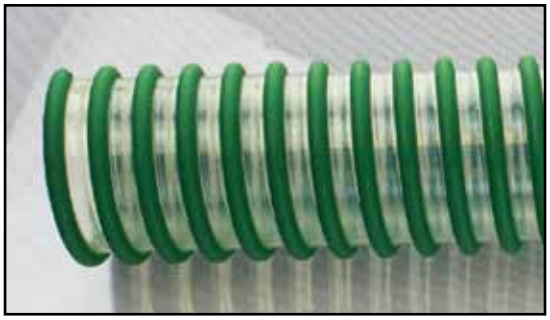
POWERING GLOBAL INDUSTRY

MATERIAL HANDLING HOSE

3021

POLYURETHANE MATERIAL HANDLING AND DUCT HOSE



CONSTRUCTION: Polyurethane abrasion resistant tube with sturdy clockwise PVC helix.

TEMPERATURE: -40°F (-40°C) to +140°F (+60°C)

APPLICATION: Insulation blowing, fume removal, ducting, ventilation and dust collection.

FEATURES:

- Abrasion resistant PU.
- Clear visual flow.
- -40°F cold weather resistance.
- Sub-zero flexibility.
- Easy to drag with "Go-Glide" external clockwise PVC helix.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein.	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
3021-0150-100	1-1/2	38.10	1.82	46.23	PVC Helix	20	1.38	15.0	0.23	0.34	0.70	17.80	100
3021-0200-100	2	50.80	2.40	60.96	PVC Helix	15	1.03	12.0	0.32	0.48	1.37	34.80	100
3021-0250-100	2-1/2	63.50	2.90	73.66	PVC Helix	10	0.69	10.0	0.39	0.58	1.37	34.80	100
3021-0300-100	3	76.20	3.43	87.12	PVC Helix	10	0.69	10.0	0.55	0.82	2.25	57.20	100
3021-0400-100	4	101.60	4.48	113.79	PVC Helix	8	0.55	8.0	0.77	1.15	3.00	76.20	100

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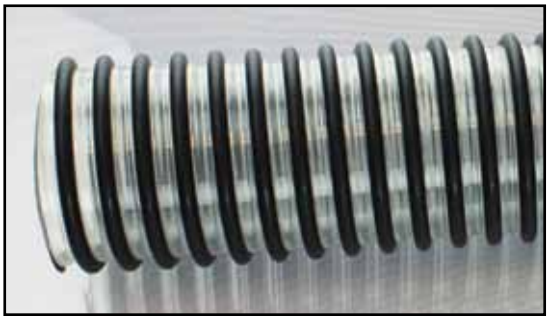
MATERIAL HANDLING HOSE

POWERING GLOBAL INDUSTRY

3022 MEDIUM DUTY POLYURETHANE LINED MATERIAL HANDLING HOSE



CONSTRUCTION: Medium duty abrasion resistant polyurethane liner with static dissipating PVC cover and sturdy clockwise PVC helix.

TEMPERATURE: -40°F (-40°C) to +140°F (+60°C)

APPLICATION: Dust collection, dry fertilizer, plastic pellets or any dry medium abrasive requirements.

FEATURES:

- Abrasion resistant PU tube.
- Clear visual flow.
- -40°F cold weather resistance.
- Sub-zero flexibility.
- Easy to drag with "Go-Glide" external clockwise PVC helix.
- Static dissipating PVC cover compound.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein.	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
3022-0150-100	1-1/2	38.10	1.91	48.51	PVC Helix	30	2.07	24.0	0.29	0.43	1.37	34.80	100
3022-0200-100	2	50.80	2.46	62.48	PVC Helix	25	1.72	22.0	0.40	0.60	2.50	63.50	100
3022-0250-100	2-1/2	63.50	2.90	73.66	PVC Helix	20	1.38	19.0	0.54	0.80	2.50	63.50	100
3022-0300-100	3	76.20	3.53	89.66	PVC Helix	20	1.38	18.0	0.68	1.01	4.00	101.60	100
3022-0400-100	4	101.60	4.57	116.08	PVC Helix	15	1.03	13.0	1.01	1.50	6.00	152.40	100

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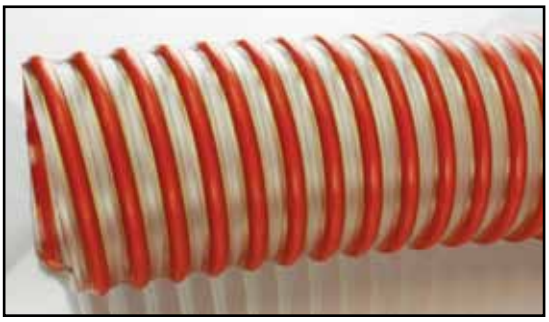
POWERING GLOBAL INDUSTRY

MATERIAL HANDLING HOSE

3030 PVC MULCH RESURFACING HOSE



CONSTRUCTION: Abrasion resistant PVC tube with sturdy clockwise PVC helix.

TEMPERATURE: -40°F (-40°C) to +140°F (+60°C)

APPLICATION: Standard duty material handling hose to dispense mulch, bark, wood chips or for resurfacing and landscaping.

FEATURES:

- Abrasion resistant PVC tube.
- Clear visual flow.
- -40°F cold weather resistance.
- Sub-zero flexibility.
- Easy to drag with "Go-Glide" external clockwise PVC helix.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein.	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
3030-0400-100	4	101.60	4.55	115.57	PVC Helix	35	2.41	29.0	1.35	2.01	9.00	228.60	100
3030-0500-100	5	127.00	5.60	142.24	PVC Helix	30	2.07	24.0	1.75	2.60	10.00	254.00	100
3030-0600-100	6	152.40	6.79	172.47	PVC Helix	25	1.72	24.0	2.42	3.60	11.00	279.40	100

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MATERIAL HANDLING HOSE

POWERING GLOBAL INDUSTRY

3035 ABRASION RESISTANT SBR MATERIAL HANDLING HOSE

CONSTRUCTION: Abrasion resistant SBR tube and cover that are both static dissipating with a sturdy clockwise helix.

TEMPERATURE: -40°F (-40°C) to +140°F (+60°C)

APPLICATION: Abrasive suction for crushed rock, sand, dry fertilizer, small gravel and powdered cement. Can also be used as a boom hose for catch basin clean out.

FEATURES:

- Heavy-duty abrasion resistance.
- -40°F cold weather resistance.
- Sub-zero flexibility.
- No ground wire is needed as the tube and cover compound are static dissipating.
- Lightweight

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein.	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
3035-0150-100	1-1/2	38.10	1.82	46.23	PVC Helix	45	3.10	29.0	0.37	0.55	2.00	50.80	100
3035-0200-100	2	50.80	2.35	59.69	PVC Helix	40	2.76	29.0	0.50	0.74	2.50	63.50	100
3035-0250-100	2-1/2	63.50	2.95	74.93	PVC Helix	35	2.41	29.0	0.88	1.31	2.50	63.50	100
3035-0300-100	3	76.20	3.51	89.15	PVC Helix	35	2.41	29.0	1.10	1.64	3.00	76.20	100
3035-0400-100	4	101.60	4.63	117.60	PVC Helix	30	2.07	29.0	1.76	2.62	4.50	114.30	100
3035-0500-100	5	127.00	5.75	146.05	PVC Helix	30	2.07	28.0	2.47	3.68	5.00	127.00	100
3035-0600-050	6	152.40	6.73	170.94	PVC Helix	30	2.07	28.0	3.09	4.60	9.00	228.60	50
3035-0600-100	6	152.40	6.73	170.94	PVC Helix	30	2.07	28.0	3.09	4.60	9.00	228.60	100
3035-0800-050	8	203.20	9.04	230.00	PVC Helix	30	2.07	27.0	5.65	8.40	15.00	381.00	50

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POWERING GLOBAL INDUSTRY

MATERIAL HANDLING HOSE

4470 BULK MATERIAL SUCTION HOSE

CONSTRUCTION: Tube is 1/4" pure gum rubber, tan color. Cover is EPDM, fabric impression, corrugated and black. Reinforcement is a two-ply synthetic fabric with a wire helix and a static wire.

TEMPERATURE: -40°F (-40°C) to +180°F (+82°C)

BRANDING: Jason logo 4470 DRY BULK SUCTION WP (PSI) (BAR). White mylar longitudinal stripe

APPLICATION: For suction, discharge or gravity flow of abrasives from manufacturing, sandblast recovery, mineral processing power plants and spill recovery.

FEATURES:

- 1/4" gum tube is highly abrasion resistant.
- Corrugated to make the hose flexible, even in tight bends.
- Weather and ozone resistant.
- All sizes are full vacuum.
- Static wire, when grounded, dissipates static electricity.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Plies	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4470-0125-100	1-1/4	31.75	1.81	46.00	2	75	5.17	29.0	0.77	1.14	4.00	101.60	100
4470-0150-100	1-1/2	38.10	2.10	53.34	2	75	5.17	29.0	1.11	1.65	4.00	101.60	100
4470-0200-100	2	50.80	2.60	66.04	2	75	5.17	29.0	1.30	1.93	12.00	304.80	100
4470-0250-100	2-1/2	63.50	3.11	78.99	2	75	5.17	29.0	1.65	2.46	17.00	431.80	100
4470-0300-100	3	76.20	3.66	92.96	2	75	5.17	29.0	2.25	3.35	18.00	457.20	100
4470-0400-050	4	101.60	4.69	119.13	2	75	5.17	29.0	2.93	4.36	24.00	609.60	50
4470-0400-100	4	101.60	4.69	119.13	2	75	5.17	29.0	2.93	4.36	24.00	609.60	100
4470-0500-100	5	127.00	5.70	144.78	2	75	5.17	29.0	3.83	5.70	30.00	762.00	100
4470-0600-050	6	152.40	6.73	170.94	2	75	5.17	29.0	5.00	7.44	32.00	812.80	50
4470-0600-100	6	152.40	6.73	170.94	2	75	5.17	29.0	5.00	7.44	32.00	812.80	100
4470-0800-020	8	203.20	9.13	231.90	2	60	4.14	29.0	10.05	14.96	40.00	1016.00	20
4470-0800-050	8	203.20	9.13	231.90	2	60	4.14	29.0	10.05	14.96	40.00	1016.00	50

***MBR = Minimum Bend Radius**

Working pressure is temperature dependent. See page 5 for more information.

All sizes may not be stocked in all locations. Check with customer service for availability.

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MATERIAL HANDLING HOSE

POWERING GLOBAL INDUSTRY

4425 HOT AIR BLOWER HOSE

CONSTRUCTION: Tube and cover are EPDM. Cover is brown, fabric impression. Reinforcement is synthetic fabric with a wire helix.

TEMPERATURE: Intermittent to +350°F (+177°C)

BRANDING: Jason logo 4425 HOT AIR 325°F WP 50 PSI 3.4 BAR. White mylar longitudinal stripe.

APPLICATION: Used to convey hot air from blower to tank on bulk transport trucks.

FEATURES:

- EPDM tube and cover for high heat resistance.
- Temp range up to 350°F (intermittent).
- Excellent flexibility.
- All sizes full vacuum.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Plies	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4425-0300-100	3	76.20	3.56	90.42	2	50	3.45	29.0	1.93	2.87	5.50	139.70	100
4425-0400-100	4	101.60	4.60	118.84	2	50	3.45	29.0	2.65	3.94	7.00	177.80	100

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POWERING GLOBAL INDUSTRY

MATERIAL HANDLING HOSE

4322 1/8" TUBE SAND & DRY CEMENT, POWDER DISCHARGE HOSE
4323 3/16" TUBE SAND & DRY CEMENT, POWDER DISCHARGE HOSE
4324 1/4" TUBE SAND & DRY CEMENT, POWDER DISCHARGE HOSE

CONSTRUCTION: Tube is NR/SBR blend, black and static-dissipating. Reinforcement is a two-ply synthetic fabric.

TEMPERATURE: -40°F (-40°C) to +185°F (+85°C)

BRANDING: Jason logo 4322, 4323 or 4324 DRY BULK DISCHARGE ID Tube WP 75 PSI 5.17 BAR.
White mylar longitudinal stripe.

APPLICATION: For pneumatic discharge of dry powders, dry cement or other dry materials. Also used for sand/water mix applications on fracking sites.

FEATURES:

- Special static dissipating tube compound.
- Weather and ozone resistant.
- High abrasion resistant tube resists cutting/gouging.
- Can be rolled for transport and storage.

1/8" TUBE THICKNESS

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Plies	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4322-0400-100	4	101.60	4.48	113.79	2	75	5.17	n/a	1.60	2.38	40.00	1016.00	100
4322-0500-100	5	127.00	5.46	138.68	2	75	5.17	n/a	1.88	2.80	50.00	1270.00	100

3/16" TUBE THICKNESS

4323-0400-100	4	101.60	4.68	118.87	2	75	5.17	n/a	2.42	3.60	40.00	1016.00	100
4323-0500-100	5	127.00	5.68	144.27	2	75	5.17	n/a	2.92	4.35	50.00	1270.00	100

1/4" TUBE THICKNESS

4324-0400-100	4	101.60	4.84	122.94	2	75	5.17	n/a	3.23	4.81	40.00	1016.00	100
4324-0500-100	5	127.00	5.84	148.34	2	75	5.17	n/a	3.80	5.65	50.00	1270.00	100

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MATERIAL HANDLING HOSE

POWERING GLOBAL INDUSTRY

4370 CONCRETE PLACEMENT HOSE - 800 PSI

CONSTRUCTION: Tube is a blend of synthetic and natural elastomers, black, smooth and anti-static. Cover is also a blend of synthetic and natural elastomers, black, smooth with a cloth impression. Reinforcement is several spirals of high tensile textile cord.

TEMPERATURE: -22°F (-30°C) to +185°F (+85°C)

BRANDING: Jason logo 4370 800 PSI WP TEXTILE CONCRETE PLACEMENT.
Clear mylar longitudinal stripe.

APPLICATION: High pressure concrete placement applications.

FEATURES:

- Anti-static tube and cover.
- Cover is abrasion, weather and ozone resistant.
- Designed for high kink resistance and perfect flow.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Spirals	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4370-0200-050	2	50.80	2.68	68.00	6	800	55.2	n/a	1.41	2.09	13.75	350.00	50
4370-0200-100	2	50.80	2.68	68.00	6	800	55.2	n/a	1.41	2.09	13.75	350.00	100
4370-0300-050	3	76.20	3.78	96.00	6	800	55.2	n/a	2.40	3.57	16.10	408.00	50
4370-0300-100	3	76.20	3.78	96.00	6	800	55.2	n/a	2.40	3.57	16.10	408.00	100
4370-0400-050	4	101.60	4.96	126.00	8	800	55.2	n/a	4.23	6.29	26.00	660.00	50
4370-0400-100	4	101.60	4.96	126.00	8	800	55.2	n/a	4.23	6.29	26.00	660.00	100

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POWERING GLOBAL INDUSTRY

MATERIAL HANDLING HOSE

4375 CONCRETE PLACEMENT HOSE - 1300 PSI

CONSTRUCTION: Tube is a blend of synthetic and natural elastomers, black, smooth and anti-static. Cover is also a blend of synthetic and natural elastomers, black, smooth with a cloth impression and anti-static. Reinforcement is a 2 or 4-spiral high tensile steel wire.

TEMPERATURE: -22°F (-30°C) to +185°F (+85°C)

BRANDING: Jason logo 4375 1300 PSI WP WIRE CONCRETE PLACEMENT.
Clear stripe with reversed lettering.

APPLICATION: For very high pressure concrete placement applications.

FEATURES:

- Tube and cover compounds are anti-static.
- Tube is abrasion resistant.
- Cover is abrasion, ozone and weather resistant.
- Designed for high kink resistance and perfect flow.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Spirals	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4375-0200-050	2	50.80	2.87	73.00	2	1300	89.6	n/a	1.95	2.91	16.10	410.00	50
4375-0200-100	2	50.80	2.87	73.00	2	1300	89.6	n/a	1.95	2.91	16.10	410.00	100
4375-0300-050	3	76.20	4.02	102.00	4	1300	89.6	n/a	3.63	5.40	24.00	610.00	50
4375-0300-100	3	76.20	4.02	102.00	4	1300	89.6	n/a	3.63	5.40	24.00	610.00	100
4375-0400-050	4	101.60	5.12	130.00	4	1300	89.6	n/a	5.31	7.90	32.30	820.00	50
4375-0400-100	4	101.60	5.12	130.00	4	1300	89.6	n/a	5.31	7.90	32.30	820.00	100

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MATERIAL HANDLING HOSE

POWERING GLOBAL INDUSTRY

4310 GUNITE HOSE

CONSTRUCTION: Tube is 1/4" thick, pure gum rubber, tan color. Cover is EPDM, pin-pricked and tan in color. Reinforcement is a two-ply synthetic fabric with a static wire.

TEMPERATURE: -40°F (-40°C) to +185°F (+85°C)

BRANDING: Jason logo 4310 GUNITE 150 PSI 10.35 BAR.

APPLICATION: For conveyance of sand and cement to the mixing gun.

FEATURES:

- 1/4" gum tube has superior abrasion resistance.
- Weather and abrasion resistant cover.
- Cover compound is non-marking, allows for work around buildings and pool tiles.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Plies	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4310-0150-050	1-1/2	38.10	2.38	60.33	2	150	10.35	n/a	1.10	1.64	15.00	380.00	50
4310-0163-050	1-5/8	41.28	2.52	64.00	2	150	10.35	n/a	1.40	2.09	16.50	420.00	50
4310-0200-050	2	50.80	2.88	72.90	2	150	10.35	n/a	1.65	2.46	20.00	508.00	50
4310-0250-050	2-1/2	63.50	3.88	98.30	2	150	10.35	n/a	2.30	3.42	25.00	635.00	50

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POWERING GLOBAL INDUSTRY

MATERIAL HANDLING HOSE

4428 PLASTER AND GROUT HOSE

CONSTRUCTION: Tube is NR/SBR blend. Cover is a NR/SBR blend, pin-pricked. Reinforcement is four plies of synthetic textile with a static wire.

TEMPERATURE: -40°F (-40°C) to +158°F (+70°C)

BRANDING: Jason logo 4428 PLASTER GROUT WP 800 PSI 55.2 BAR.
White mylar longitudinal stripe.

APPLICATION: Used for spraying plaster, grout, sand and gypsym.

FEATURES:

- Cover ozone and weather resistant.
- Very good abrasion resistance.
- Handles a variety of applications.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Plies	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4428-0150-100	1-1/2	38.10	2.20	56.00	4	800	55.20	n/a	1.07	1.59	n/a	n/a	100
4428-0200-100	2	50.80	2.76	70.00	4	800	55.20	n/a	1.43	2.13	n/a	n/a	100
4428-0250-100	2-1/2	63.50	3.31	84.00	4	800	55.20	n/a	1.73	2.58	n/a	n/a	100

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MATERIAL HANDLING HOSE

POWERING GLOBAL INDUSTRY

4312 2-PLY SANDBLAST HOSE

CONSTRUCTION: Tube is a SBR/NR blend which is a 1/4" thick, black and static dissipating. Cover is an SBR/NR blend, pin-pricked. Reinforcement is a two-ply synthetic fabric.

TEMPERATURE: -25°F (-32°C) to +185°F (+85°C)

BRANDING: None

APPLICATION: For conveyance of highly abrasive materials in sandblasting/cleaning and general maintenance in construction, shipyards, power plants and equipment rental.

FEATURES:

- Tube compounds are static-dissipating.
- Highly abrasion resistant tube that will handle any blast grit.
- Cover is abrasion and weather resistant.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Plies	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4312-0050-050	1/2	12.70	1.00	25.40	2	150	10.35	n/a	0.31	0.46	5.00	127.00	50
4312-0051-050	1/2	12.70	1.06	26.99	2	150	10.35	n/a	0.33	0.49	5.00	127.00	50
4312-0051-100	1/2	12.70	1.06	26.99	2	150	10.35	n/a	0.33	0.49	5.00	127.00	100
4312-0052-050	1/2	12.70	1.13	28.58	2	150	10.35	n/a	0.38	0.57	5.00	127.00	50
4312-0075-050	3/4	19.05	1.50	38.10	2	150	10.35	n/a	0.60	0.89	7.50	190.00	50

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POWERING GLOBAL INDUSTRY

MATERIAL HANDLING HOSE

4313 LIGHTWEIGHT SANDBLAST HOSE

CONSTRUCTION: Tube is SBR/NR blend which is static dissipating. Cover is an SBR/NR blend, black. Reinforcement is a two-ply synthetic fabric.

TEMPERATURE: -25°F (-32°C) to +185°F (+85°C)

BRANDING: Jason logo 4313 LW SANDBLAST 1-7/8" O.D. WP 150 PSI 10.35 BAR. White longitudinal mylar stripe.

APPLICATION: For conveyance of highly abrasive materials in sandblasting/cleaning operations.

FEATURES:

- Tube compounds are static-dissipating.
- Highly abrasion resistant tube that will handle any blast grit.
- Cover is abrasion and weather resistant.
- Lighter weight than standard sandblast hose.
- Maintains the high quality features.
- Utilizes couplings or nozzle holders made to fit 1-7/8" O.D. hose.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Plies	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4313-0125-050	1-1/4	31.75	1.88	47.63	2	150	10.35	n/a	0.83	1.24	10.00	254.00	50
4313-0125-100	1-1/4	31.75	1.88	47.63	2	150	10.35	n/a	0.83	1.24	10.00	254.00	100
4313-0125-200	1-1/4	31.75	1.88	47.63	2	150	10.35	n/a	0.83	1.24	10.00	254.00	200

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MATERIAL HANDLING HOSE

POWERING GLOBAL INDUSTRY

4314 4-PLY SANDBLAST HOSE

CONSTRUCTION: Tube is a SBR/NR blend, 1/4" thick, black and static dissipating. Cover is an SBR/NR blend, black. Rein Reinforcement is a four-ply synthetic fabric.

TEMPERATURE: -25°F (-32°C) to +185°F (+85°C)

BRANDING: Jason logo 4314 4-PLY SANDBLAST WP 150 PSI 10.35 BAR.
White mylar longitudinal stripe.

APPLICATION: For sandblasting/cleaning operations in construction, shipyards, steel mills and refineries.

FEATURES:

- Tube compounds are static-dissipating.
- Highly abrasion resistant tube that will handle any blast grit.
- Cover is abrasion and weather resistant.
- Highly abrasion resistant tube handles manufactured coal slag, aluminum oxide or grit.
- Each O.D. is held to strict tolerances (ARPM) for ideal coupling compatibility.

Part Number	I.D.		O.D.		Rein. Plies	Max W.P. @68°F		Vacuum @68°F	Weight		MBR*		Std. Lgth. (ft)
	in.	mm.	in.	mm.		PSI	BAR		lb./ft.	KG/m	in.	mm	
4314-0075-050	3/4	19.05	1.50	38.10	4	150	10.35	n/a	0.66	0.98	7.50	190.00	50
4314-0075-100	3/4	19.05	1.50	38.10	4	150	10.35	n/a	0.66	0.98	7.50	190.00	100
4314-0075-200	3/4	19.05	1.50	38.10	4	150	10.35	n/a	0.66	0.98	7.50	190.00	200
4314-0100-050	1	25.40	1.88	47.63	4	150	10.35	n/a	0.80	1.19	10.00	254.00	50
4314-0100-100	1	25.40	1.88	47.63	4	150	10.35	n/a	0.80	1.19	10.00	254.00	100
4314-0100-200	1	25.40	1.88	47.63	4	150	10.35	n/a	0.80	1.19	10.00	254.00	200
4314-0125-050	1-1/4	31.75	2.16	53.18	4	150	10.35	n/a	1.04	1.55	12.60	320.00	50
4314-0125-100	1-1/4	31.75	2.16	53.18	4	150	10.35	n/a	1.04	1.55	12.60	320.00	100
4314-0125-200	1-1/4	31.75	2.16	53.18	4	150	10.35	n/a	1.04	1.55	12.60	320.00	200
4314-0150-050	1-1/2	38.10	2.38	60.33	4	150	10.35	n/a	1.25	1.86	15.00	380.00	50
4314-0150-100	1-1/2	38.10	2.38	60.33	4	150	10.35	n/a	1.25	1.86	15.00	380.00	100
4314-0150-200	1-1/2	38.10	2.38	60.33	4	150	10.35	n/a	1.25	1.86	15.00	380.00	200
4314-0200-050	2	50.80	2.88	73.03	4	150	10.35	n/a	1.45	2.16	20.00	508.00	50
4314-0200-100	2	50.80	2.88	73.03	4	150	10.35	n/a	1.45	2.16	20.00	508.00	100

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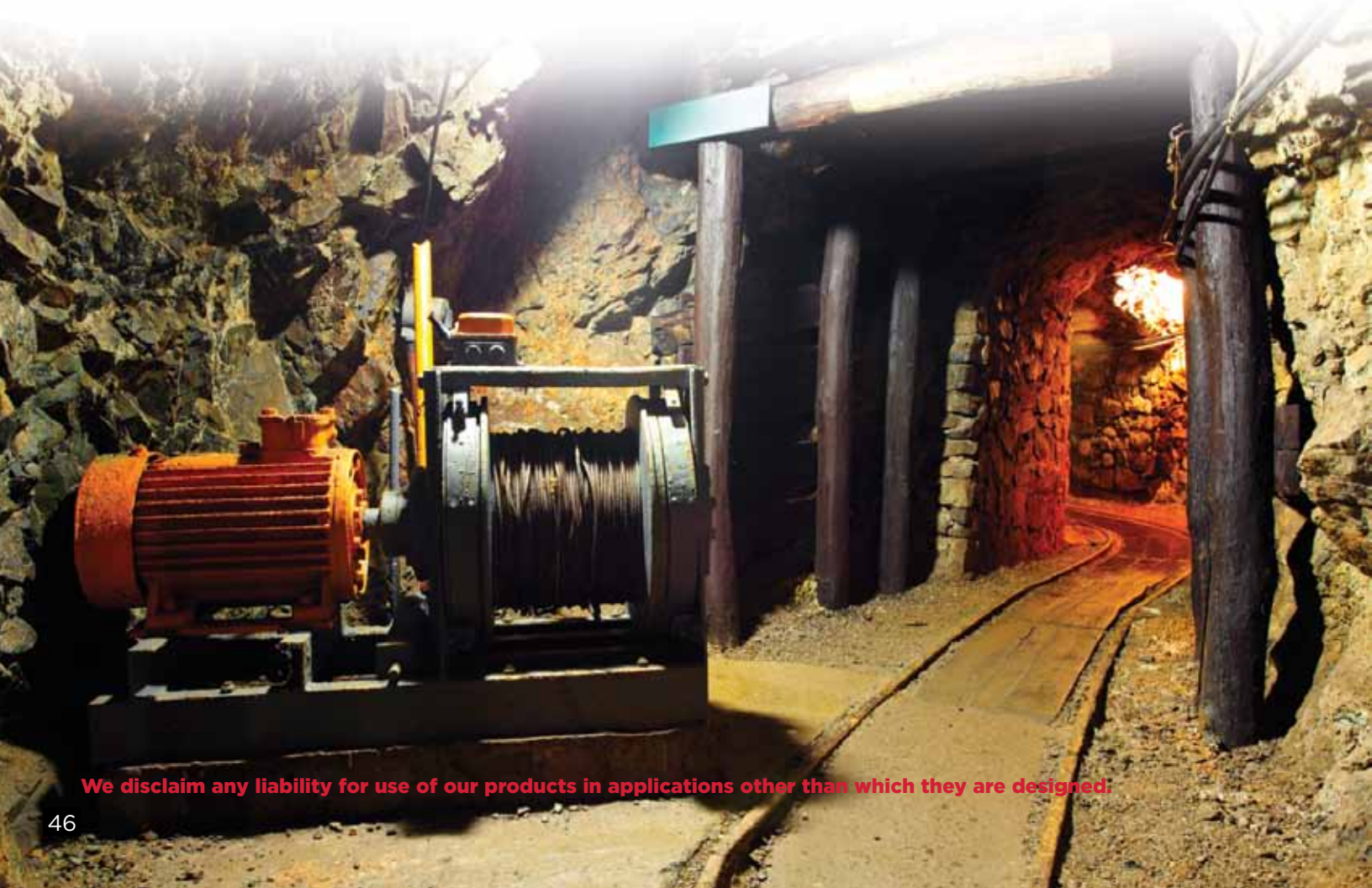
POWERING GLOBAL INDUSTRY

MINE SPRAY HOSE

FOR DUST CONTROL IN UNDERGROUND MINING

Hoses are constantly being upgraded. Jason Industrial reserves the right to make changes in construction without prior notice.



MINE SPRAY HOSE

POWERING GLOBAL INDUSTRY

4182 MSHA MINE SPRAY HOSE

CONSTRUCTION: SBR tube, smooth and black. Cover is CR, fabric impression, pin-pricked, yellow. Reinforcement is two plies of steel wire.

TEMPERATURE: 0°F (-18°C) to +200°F (+93°C)

BRANDING: Jason logo 4182 MINE SPRAY MSHA IC-84-42 1000 PSI WP 69 BAR. Black longitudinal stripe.

APPLICATION: For dust control in underground water spray operations.

FEATURES:

- Meets MSHA rating IC-84-42.
- Flame retardant.
- Visible yellow color.
- Cover is weather and abrasion resistant.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Plies	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4182-0050-050	1/2	12.70	0.97	24.60	2	1000	68.95	n/a	0.40	0.60	5.90	150.00	50
4182-0075-050	3/4	19.05	1.22	30.99	2	1000	68.95	n/a	0.60	0.89	8.30	210.00	50
4182-0075-100	3/4	19.05	1.22	30.99	2	1000	68.95	n/a	0.60	0.89	8.30	210.00	100
4182-0100-050	1	25.40	1.49	37.85	2	1000	68.95	n/a	0.80	1.19	11.00	280.00	50
4182-0100-100	1	25.40	1.49	37.85	2	1000	68.95	n/a	0.80	1.19	11.00	280.00	100
4182-0125-050	1-1/4	31.75	1.81	45.97	2	1000	68.95	n/a	1.05	1.56	14.00	355.00	50
4182-0125-100	1-1/4	31.75	1.81	45.97	2	1000	68.95	n/a	1.05	1.56	14.00	355.00	100
4182-0150-050	1-1/2	38.10	2.04	51.82	2	1000	68.95	n/a	1.24	1.85	16.50	420.00	50
4182-0150-100	1-1/2	38.10	2.04	51.82	2	1000	68.95	n/a	1.24	1.85	16.50	420.00	100
4182-0200-050	2	50.80	2.60	66.04	2	1000	68.95	n/a	1.80	2.68	22.00	560.00	50
4182-0200-100	2	50.80	2.60	66.04	2	1000	68.95	n/a	1.80	2.68	22.00	560.00	100

***MBR = Minimum Bend Radius**
Working pressure is temperature dependent. See page 5 for more information.

All sizes may not be stocked in all locations. Check with customer service for availability.
We disclaim any liability for use of our products in applications other than which they are designed.

POWERING GLOBAL INDUSTRY

PETROLEUM HOSE

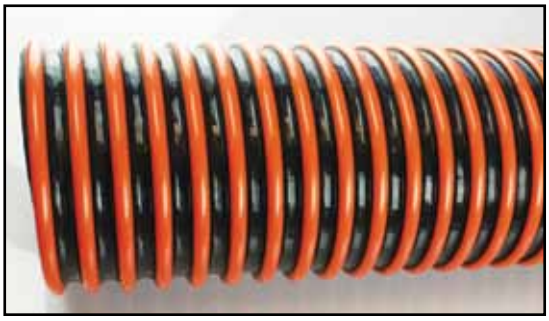
FOR IN-PLANT OR TANK TRUCK USE TO TRANSFER PETROLEUM PRODUCTS

Hoses are constantly being upgraded. Jason Industrial reserves the right to make changes in construction without prior notice.

We disclaim any liability for use of our products in applications other than which they are designed.

POWERING GLOBAL INDUSTRY

3058 NBR/PVC DROP HOSE FOR SUCTION AND DELIVERY OF GASOLINE - SΩ



CONSTRUCTION: NBR/PVC tube, smooth bore with embedded SΩ ground wire in the hose wall with a sturdy clockwise PVC helix, one braid of high tensile polyester yarn reinforcement.

TEMPERATURE: -10°F (-23°C) to +140°F (+60°C)

APPLICATION: Used to deliver gasoline, diesel fuel, kerosene and fuels with aromatic content to 40%.

FEATURES:

- Higher transfer pressures.
- Easy to drag with "Go-Glide" external clockwise PVC helix.
- SΩ ground wire embedded into hose wall to help prevent the build-up of static electricity. Wire must be secured to ground to dissipate static electricity.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Braids	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
3058-0200-100	2	50.80	2.68	68.07	1	70	4.83	29.9	1.13	1.68	5.00	127.00	100
3058-0300-100	3	76.20	3.68	93.47	1	65	4.48	29.9	1.37	2.04	6.00	152.40	100
3058-0400-100	4	101.60	4.80	121.92	1	65	4.48	29.9	2.16	3.21	8.00	203.20	100

Note: Use JASON ORANGE banding sleeves only when securing coupling for 3" and 4" ID's.
Discharge pressures and vacuum are temperature dependent.
SΩ = Safety Ohm

***MBR = Minimum Bend Radius**
Working pressure is temperature dependent. See page 5 for more information.

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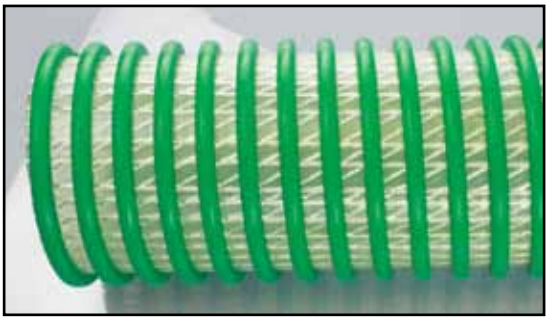
POWERING GLOBAL INDUSTRY

PETROLEUM HOSE

3040 POLYURETHANE DROP HOSE FOR SUCTION AND DELIVERY OF GASOLINE AND ALTERNATIVE FUELS - SΩ



CONSTRUCTION: Polyurethane tube, smooth bore with embedded SΩ ground wire in the hose wall with a sturdy clockwise PVC helix, one braid of high tensile polyester yarn reinforcement.

TEMPERATURE: -40°F (-40°C) to +140°F (+60°C)

APPLICATION: Used in the delivery of biofuels, gasoline, kerosene and fuel oil.

FEATURES:

- Higher transfer pressures.
- Clear visual flow.
- -40°F cold weather resistance.
- Sub-zero flexibility.
- Easy to drag with "Go-Glide" external clockwise PVC helix.
- SΩ ground wire embedded into hose wall to help prevent the build-up of static electricity. SΩ wire must be secured to ground to dissipate static electricity.
- Vacuum up to 29" of Hg.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Braids	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
3040-0200-100	2	50.80	2.46	62.48	1	75	5.17	29.0	0.63	0.94	4.00	101.60	100
3040-0300-100	3	76.20	3.78	96.01	1	65	4.48	29.0	1.20	1.79	6.00	152.40	100
3040-0400-100	4	101.60	4.83	122.68	1	65	4.48	29.0	1.71	2.54	8.00	203.20	100

Note: Use JASON GREEN banding sleeves only when securing coupling for 3" and 4" ID's.
Discharge pressures and vacuum are temperature dependent.
SΩ = Safety Ohm

***MBR = Minimum Bend Radius**
Working pressure is temperature dependent. See page 5 for more information.

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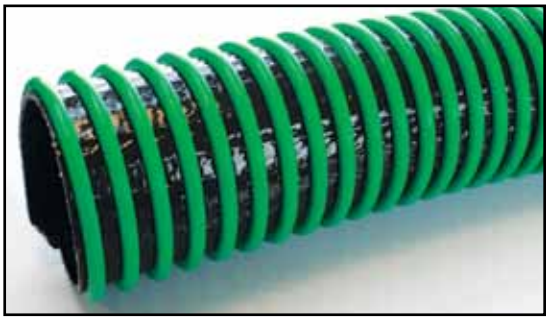
POWERING GLOBAL INDUSTRY

3045 POLYURETHANE DROP HOSE FOR SUCTION AND DELIVERY OF GASOLINE AND ALTERNATIVE FUELS - SΩ



CONSTRUCTION: Polyurethane tube, smooth bore with embedded SΩ ground wire in the hose wall with a sturdy clockwise PVC helix, one braid of high tensile polyester yarn reinforcement.

TEMPERATURE: -40°F (-40°C) to +140°F (+60°C)

APPLICATION: Used in the delivery of biofuels, gasoline, kerosene and fuel oil.

FEATURES:

- Higher transfer pressures.
- -40°F cold weather resistance.
- Sub-zero flexibility.
- Easy to drag with "Go-Glide" external clockwise PVC helix.
- SΩ ground wire embedded into hose wall to help prevent the build-up of static electricity. SΩ wire must be secured to ground to dissipate static electricity.
- Vacuum up to 29" of Hg.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Braids	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
3045-0300-100	3	76.20	3.78	96.01	1	65	4.48	29.0	1.20	1.79	6.00	152.40	100
3045-0400-100	4	101.60	4.83	122.68	1	65	4.48	29.0	1.71	2.54	8.00	203.20	100

Note: Use JASON GREEN banding sleeves only when securing coupling for 3" and 4" ID's.
Discharge pressures and vacuum are temperature dependent.
SΩ = Safety Ohm

***MBR = Minimum Bend Radius**
Working pressure is temperature dependent. See page 5 for more information.

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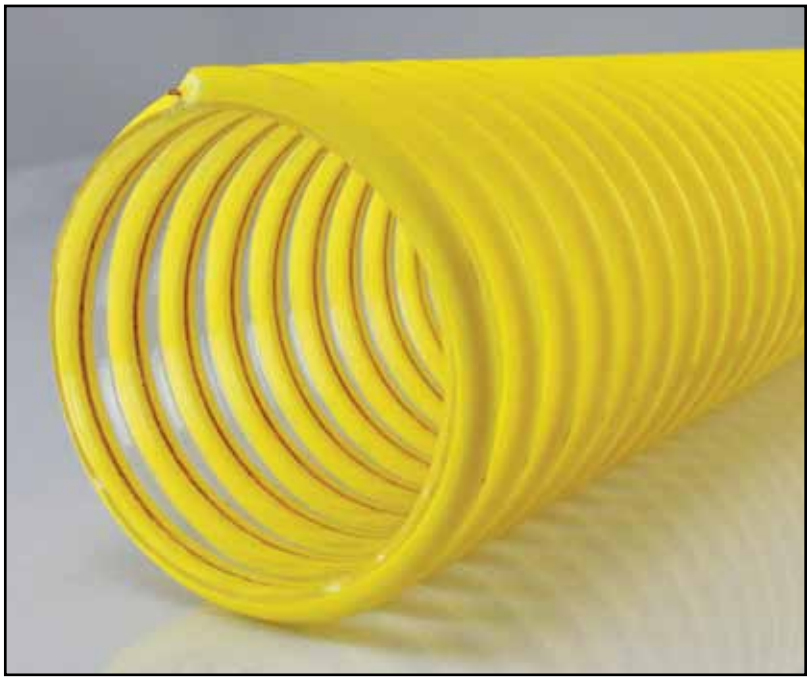
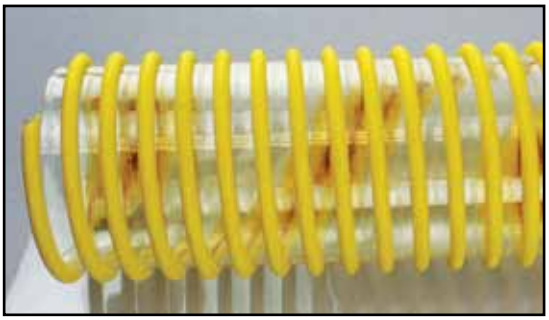
POWERING GLOBAL INDUSTRY

PETROLEUM HOSE

3050 POLYURETHANE GASOLINE AND ALTERNATIVE FUEL VAPOR RECOVERY HOSE - SΩ





CONSTRUCTION: Polyurethane tube with a sturdy clockwise PVC helix with SΩ ground wire embedded into the hose wall.

TEMPERATURE: -40°F (-40°C) to +140°F (+60°C)

APPLICATION: Used to remove vapors from gasoline and alternative fuels to recovery system in tank truck operations.

FEATURES:

- Clear visual flow.
- -40°F cold weather resistance.
- Sub-zero flexibility.
- Easy to drag with "Go-Glide" external clockwise PVC helix.
- SΩ ground wire embedded into hose wall to help prevent the build-up of static electricity. SΩ wire must be secured to ground to dissipate static electricity.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein.	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
3050-0200-100	2	50.80	2.45	62.23	PVC Helix	10	0.69	15.0	0.50	0.74	3.00	76.20	100
3050-0300-100	3	76.20	3.54	89.92	PVC Helix	8	0.55	15.0	0.79	1.18	4.00	101.60	100
3050-0400-100	4	101.60	4.57	116.08	PVC Helix	7	0.48	12.0	1.11	1.65	5.00	127.00	100

Note: Use JASON YELLOW banding sleeves only when securing coupling for 2", 3" and 4" ID's.
SΩ = Safety Ohm

***MBR = Minimum Bend Radius**
Working pressure is temperature dependent. See page 5 for more information.

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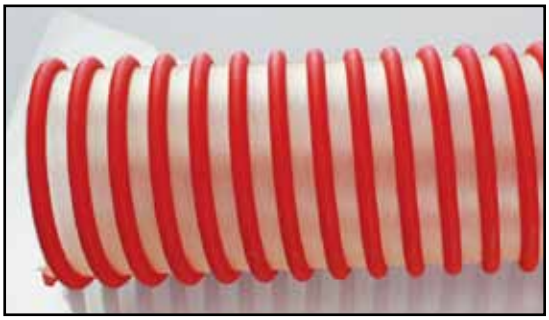
PETROLEUM HOSE

POWERING GLOBAL INDUSTRY

3053 HD POLYURETHANE GASOLINE AND ALTERNATIVE FUEL VAPOR RECOVERY HOSE - SΩ



CONSTRUCTION: Polyurethane tube with a sturdy clockwise PVC helix with SΩ ground wire embedded into the hose wall.

TEMPERATURE: -40°F (-40°C) to +140°F (+60°C)

APPLICATION: Used to remove vapors from gasoline and alternative fuels to recovery system in tank truck and terminal operations.

FEATURES:

- Clear visual flow.
- -40°F cold weather resistance.
- Sub-zero flexibility.
- Easy to drag with "Go-Glide" external clockwise PVC helix.
- SΩ ground wire embedded into hose wall to help prevent the build-up of static electricity. SΩ wire must be secured to ground to dissipate static electricity.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein.	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
3053-0300-100	3	76.20	3.57	90.68	PVC Helix	8	0.55	15.0	0.95	1.41	5.00	127.00	100
3053-0400-100	4	101.60	4.61	117.09	PVC Helix	7	0.48	12.0	1.27	1.89	6.00	152.40	100

Note: Use JASON YELLOW banding sleeves only when securing coupling for 3" and 4" ID's.
SΩ = Safety Ohm

***MBR = Minimum Bend Radius**
Working pressure is temperature dependent. See page 5 for more information.

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POWERING GLOBAL INDUSTRY

PETROLEUM HOSE

3085 OILFIELD CLEAN-UP & SPILL RECOVERY HOSE

CONSTRUCTION: NBR/PVC tube with a PVC clockwise helix.

TEMPERATURE: -40°F (-40°C) to +140°F (+60°C)

BRANDING: None

APPLICATION: Great for the recovery of waste crude oil, diesel fuel and salt water. Used for cleaning up tank bottoms and oil spills.

FEATURES:

- NBR/PVC tube is oil and gas resistant.
- Very flexible and easy to handle.
- All sizes are full vacuum.
- Cold weather resistant.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein.	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
3085-0200-100	2	50.80	2.43	61.72	PVC Helix	50	3.45	29.0	0.67	1.00	4.00	101.60	100
3085-0300-100	3	76.20	3.52	89.41	PVC Helix	45	3.10	29.0	1.10	1.64	6.00	152.40	100
3085-0400-100	4	101.60	4.60	116.84	PVC Helix	38	2.62	29.0	1.84	2.74	8.20	208.30	100

Note: Vacuum is temperature dependent.

***MBR = Minimum Bend Radius**
Working pressure is temperature dependent. See page 5 for more information.

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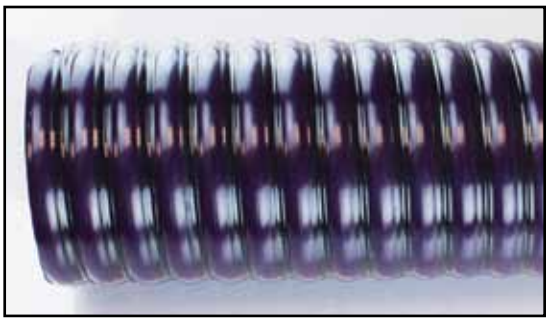
POWERING GLOBAL INDUSTRY

3087 SAFETY OILFIELD CLEAN-UP AND RECOVERY HOSE - SΩ



CONSTRUCTION: NBR/PVC tube with a PVC clockwise helix with an SΩ ground wire.

TEMPERATURE: -40°F (-40°C) to +140°F (+60°C)

BRANDING: None

APPLICATION: Great for the recovery of waste crude oil, diesel fuel and salt water. Used for cleaning up tank bottoms and oil spills.

FEATURES:

- NBR/PVC tube is oil and gas resistant.
- Very flexible and easy to handle.
- All sizes are full vacuum.
- Cold weather resistant.
- SΩ ground prevents build-up of static electricity.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein.	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
3087-0200-100	2	50.80	2.43	61.72	PVC Helix	50	3.45	29.0	0.67	1.00	4.00	101.60	100
3087-0300-100	3	76.20	3.52	89.41	PVC Helix	45	3.10	29.0	1.10	1.64	6.00	152.40	100
3087-0400-100	4	101.60	4.60	116.84	PVC Helix	38	2.62	29.0	1.84	2.74	8.20	208.30	100

Note: Vacuum is temperature dependent. **SΩ = Safety OHM**

***MBR = Minimum Bend Radius**

Working pressure is temperature dependent. See page 5 for more information.

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POWERING GLOBAL INDUSTRY

PETROLEUM HOSE

4420 NITRILE PETROLEUM SUCTION HOSE - 150 PSI

CONSTRUCTION: Tube nitrile, smooth and black. ARPM Class A. Cover is CR, ARPM Class B. Reinforcement is two synthetic plies with a dual wire helix.

TEMPERATURE: -25°F (-32°C) to +200°F (+93°C)

BRANDING: Jason logo 4420 PETROLEUM SUCTION WP 150 PSI 10.35 BAR. Red mylar longitudinal stripe.

APPLICATION: For suction or discharge of petroleum-based products in truck and car operations.

FEATURES:

- Increased flexibility due to the dual wire helix.
- Nitrile tube is highly oil resistant. Enables hose to handle petroleum products having an aromatic content up to 50%.
- Weather and ozone resistant.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Plies	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4420-0075-100	3/4	19.05	1.14	28.96	2	150	10.35	29.0	0.36	0.54	4.00	101.60	100
4420-0100-100	1	25.40	1.38	35.00	2	150	10.35	29.0	0.49	0.73	6.00	152.40	100
4420-0125-100	1-1/4	31.75	1.69	42.93	2	150	10.35	29.0	0.81	1.21	6.00	152.40	100
4420-0150-100	1-1/2	38.10	2.00	50.80	2	150	10.35	29.0	0.91	1.35	6.50	165.10	100
4420-0200-100	2	50.80	2.52	64.01	2	150	10.35	29.0	1.14	1.70	8.00	203.20	100
4420-0200-200	2	50.80	2.52	64.01	2	150	10.35	29.0	1.14	1.70	8.00	203.20	200
4420-0250-100	2-1/2	63.50	3.06	77.72	2	150	10.35	29.0	1.76	2.62	12.00	304.80	100
4420-0300-100	3	76.20	3.54	89.92	2	150	10.35	29.0	2.42	3.60	16.00	406.40	100
4420-0300-200	3	76.20	3.54	89.92	2	150	10.35	29.0	2.42	3.60	16.00	406.40	200
4420-0400-100	4	101.60	4.60	116.84	2	150	10.35	29.0	2.69	4.00	18.00	457.20	100
4420-0400-200	4	101.60	4.60	116.84	2	150	10.35	29.0	2.69	4.00	18.00	457.20	200
4420-0600-020	6	152.40	6.86	174.24	2	150	10.35	29.0	6.28	9.35	30.00	762.00	20
4420-0600-100	6	152.40	6.86	174.24	2	150	10.35	29.0	6.28	9.35	30.00	762.00	100
4420-0800-020	8	203.20	8.90	226.06	2	150	10.35	29.0	7.12	10.60	48.00	1219.20	20
4420-0800-050	8	203.20	8.90	226.06	2	150	10.35	29.0	7.12	10.60	48.00	1219.20	50

***MBR = Minimum Bend Radius**

Working pressure is temperature dependent. See page 5 for more information.

All sizes may not be stocked in all locations. Check with customer service for availability.

POWERING GLOBAL INDUSTRY

4421 TANK TRUCK HOSE - RED CORRUGATED

CONSTRUCTION: Tube is nitrile, smooth, ARPM Class A. Cover is CR, ARPM Class B, corrugated and red. Reinforcement is two synthetic plies with a wire helix.

TEMPERATURE: -30°F (-34°C) to +180°F (+82°C)

BRANDING: Jason logo 4421 PETROLEUM SUCTION WP 150 PSI 10.35 BAR.
White mylar longitudinal stripe.

APPLICATION: For the transfer of petroleum products, including gasoline under pressure, gravity flow and tank farms at oil/gas drilling sites.

FEATURES:

- Increased flexibility due to the corrugated cover.
- Lightweight, easier to handle.
- Cover is resistant to weathering and abrasion.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Plies	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4421-0200-100	2	50.80	2.48	63.00	2	150	10.35	29.0	1.18	1.76	4.00	101.60	100
4421-0300-100	3	76.20	3.50	89.00	2	150	10.35	29.0	1.99	2.96	6.00	152.40	100
4421-0400-100	4	101.60	4.57	116.00	2	150	10.35	29.0	2.66	3.96	9.00	228.60	100
4421-0600-100	6	152.40	6.77	172.00	2	150	10.35	29.0	6.30	9.41	25.00	637.50	100

***MBR = Minimum Bend Radius**
Working pressure is temperature dependent. See page 5 for more information.

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POWERING GLOBAL INDUSTRY

PETROLEUM HOSE

4423 BIO-DIESEL/ETHANOL SUCTION AND DISCHARGE HOSE

CONSTRUCTION: Tube is ultra-high molecular weight polyethylene (UHMWPE). Cover is CR, smooth and black. Reinforcement is a two-ply synthetic fabric with a dual wire helix and two conductive copper wires.

TEMPERATURE: -31°F (-35°C) to +176°F (+80°C)

BRANDING: Jason logo 4423 BIO-DIESEL B-20 MAX ETHANOL E-20 MAX SUCTION 150 PSI 10.35 BAR.
Red mylar longitudinal stripe

APPLICATION: For the suction and discharge of bio-diesel and ethanol blended fuels.

FEATURES:

- UHMWPE gives maximum resistance to today's bio-fuels.
- Cover is resistant to weathering and abrasion.
- Heat and ozone resistant.
- Dual conductive copper wires makes it easy to ground the hose.
- All sizes are full vacuum.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Plies	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4423-0100-100	1	25.40	1.42	36.00	2	150	10.35	29.0	0.49	0.73	6.00	101.60	100
4423-0125-100	1-1/4	31.75	1.68	42.67	2	150	10.35	29.0	0.62	0.92	7.00	127.00	100
4423-0150-100	1-1/2	38.10	1.93	49.00	2	150	10.35	29.0	0.75	1.12	8.00	152.40	100
4423-0200-100	2	50.80	2.48	63.00	2	150	10.35	29.0	1.16	1.72	12.00	228.60	100
4423-0300-100	3	76.20	3.50	89.00	2	150	10.35	29.0	1.81	2.69	14.00	637.50	100

***MBR = Minimum Bend Radius**
Working pressure is temperature dependent. See page 5 for more information.

Consult with engine manufacturers for warranted blends (B-5 to B-100 & E-5 to E-100)

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PETROLEUM HOSE

POWERING GLOBAL INDUSTRY

4414 NITRILE PETROLEUM SUCTION HOSE - 300 PSI

CONSTRUCTION: Tube nitrile, smooth and black. ARPM Class A. Cover is CR, ARPM Class B. Reinforcement is two-ply synthetic fabric with a dual wire helix.

TEMPERATURE: -25°F (-32°C) to +200°F (+93°C)

BRANDING: Jason logo 4414 PETROLEUM SUCTION WP 300 PSI 20.70 BAR. Red mylar longitudinal stripe.

APPLICATION: For the transfer of petroleum products, including gasoline under pressure and gravity flow.

FEATURES:

- HD construction that handles up to 300 PSI applications.
- Cover is resistant to weathering and abrasion.
- Heat and ozone resistant.
- All sizes are full vacuum.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Plies	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4414-0100-100	1	25.40	1.46	37.08	2	300	20.70	29.0	0.53	0.79	3.50	88.90	100
4414-0125-100	1-1/4	31.75	1.73	43.94	2	300	20.70	29.0	0.70	1.04	4.00	101.60	100
4414-0150-100	1-1/2	38.10	2.00	50.80	2	300	20.70	29.0	0.92	1.37	5.00	127.00	100
4414-0200-100	2	50.80	2.50	63.50	2	300	20.70	29.0	1.27	1.89	8.00	203.20	100
4414-0200-200	2	50.80	2.50	63.50	2	300	20.70	29.0	1.27	1.89	8.00	203.20	200
4414-0250-100	2-1/2	63.50	3.11	78.99	2	300	20.70	29.0	1.66	2.47	10.00	254.00	100
4414-0300-100	3	76.20	3.62	91.95	2	300	20.70	29.0	2.19	3.26	12.00	304.80	100
4414-0300-200	3	76.20	3.62	91.95	2	300	20.70	29.0	2.19	3.26	12.00	304.80	200
4414-0400-100	4	101.60	4.65	118.11	2	300	20.70	29.0	2.89	4.30	17.00	431.80	100
4414-0400-200	4	101.60	4.65	118.11	2	300	20.70	29.0	2.89	4.30	17.00	431.80	200
4414-0600-100	6	152.40	6.91	175.51	2	300	20.70	29.0	6.47	9.96	27.00	685.80	100
4414-0800-020	8	203.20	8.98	228.00	2	300	20.70	29.0	6.92	10.30	48.00	1219.20	20

***MBR = Minimum Bend Radius**

Working pressure is temperature dependent. See page 5 for more information.

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POWERING GLOBAL INDUSTRY

PETROLEUM HOSE

4424 NITRILE PETROLUM SUCTION HOSE - 400 PSI

CONSTRUCTION: Tube is nitrile, black and smooth, ARPM Class A. Cover is CR, black, ARPM Class B. Reinforcement is a two-ply synthetic fabric with a dual wire helix.

TEMPERATURE: -31°F (-35°C) to +158°F (+70°C)

BRANDING: Jason logo 4424 PETROLEUM SUCTION WP 400 PSI 27.6 BAR.
Red mylar longitudinal stripe

APPLICATION: For the transfer of petroleum products, including gasoline under pressure or gravity flow (suction or discharge).

FEATURES:

- HD construction that handles up to 400 PSI applications.
- Cover is resistant to weathering and abrasion.
- Heat, sea water and ozone resistant.
- All sizes are full vaccum.
- Construction is with high tensile strength textile.
- Dual copper wires to ground the hose.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Plies	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4424-0200-100	2	50.80	2.82	71.63	2	400	27.56	29.0	1.89	2.81	12.00	304.80	100
4424-0200-200	2	50.80	2.82	71.63	2	400	27.56	29.0	1.89	2.81	12.00	304.80	200
4424-0300-100	3	76.20	3.88	98.55	2	400	27.56	29.0	2.95	4.39	20.00	508.00	100
4424-0300-200	3	76.20	3.88	98.55	2	400	27.56	29.0	2.95	4.39	20.00	508.00	200
4424-0400-100	4	101.60	4.92	124.50	2	400	27.56	29.0	3.85	5.72	30.00	762.00	100
4424-0400-200	4	101.60	4.92	124.50	2	400	27.56	29.0	3.85	5.72	30.00	762.00	200

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PETROLEUM HOSE

POWERING GLOBAL INDUSTRY

4328 NITRILE FUEL DISCHARGE HOSE - 300 PSI

CONSTRUCTION: Tube is nitrile, smooth, ARPM Class A. Cover is CR, black, ARPM Class B. Reinforcement is two-ply synthetic fabric with a static wire.

TEMPERATURE: -25°F (-32°C) to +200°F (+93°C)

BRANDING: Jason logo 4328 FUEL DISCHARGE WP 300 PSI 20.7 BAR.
Red mylar longitudinal stripe.

APPLICATION: For discharge only. For petroleum-based products in truck and car applications.

FEATURES:

- HD construction that handles up to 300 PSI applications.
- Cover is resistant to weathering and abrasion.
- Class A tube is highly oil resistant and will handle gasoline and other petroleum products having an aromatic content of 50%.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Plies	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4328-0200-100	2	50.80	2.64	67.06	2	300	20.68	n/a	1.35	2.01	11.00	275.00	100
4328-0250-100	2-1/2	63.50	3.13	79.50	2	300	20.68	n/a	1.55	2.30	12.00	300.00	100
4328-0300-100	3	76.20	3.67	93.22	2	300	20.68	n/a	1.88	2.80	14.00	350.00	100
4328-0400-100	4	101.60	4.61	117.09	2	300	20.68	n/a	2.57	3.82	18.00	450.00	100
4328-0500-100	5	127.00	5.67	144.02	2	300	20.68	n/a	4.09	6.08	24.00	600.00	100

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POWERING GLOBAL INDUSTRY

PETROLEUM HOSE

4348

FRACK OILFIELD FUEL DISCHARGE HOSE - 400 PSI

CONSTRUCTION: Tube is nitrile, black and smooth, ARPM Class C. Cover is an EPDM/SBR blend. Reinforcement is a four-ply synthetic fabric with a static wire.

TEMPERATURE: -25°F (-32°C) to +180°F (+82°C)

BRANDING: Jason logo 4348 FRAC DISCHARGE WP 400 PSI 27.6 BAR.
Red mylar longitudinal stripe.

APPLICATION: To discharge or convey water and oil slurry mixtures for the connections to frack tanks.

FEATURES:

- HD construction that handles up to 400 PSI applications.
- Cover is resistant to weathering and abrasion.
- Class C tube is oil resistant and will handle gasoline and other petroleum products having an aromatic content of 50%.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Plies	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4348-0300-100	3	76.20	3.87	93.30	4	400	27.60	n/a	2.52	3.74	18.00	457.20	100
4348-0400-100	4	101.60	4.76	120.90	4	400	27.60	n/a	2.83	4.21	24.00	600.00	100

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PETROLEUM HOSE

POWERING GLOBAL INDUSTRY

4410 BLUE LOW TEMP PETROLEUM SUCTION HOSE - CORRUGATED

CONSTRUCTION: Tube is nitrile, black and smooth, ARPM Class A. Cover is CR, blue, corrugated, ARPM Class B. Reinforcement is a two-ply synthetic fabric with a double wire helix.

TEMPERATURE: -65°F (-55°C) to +180°F (+82°C)

BRANDING: Jason logo 4410 LOW TEMP PETROLEUM SUCTION -65°F (-55°C) 150 PSI WP 10.35 BAR. White mylar longitudinal stripe.

APPLICATION: The transfer of petroleum products, including gasoline under pressure or gravity flow.

FEATURES:

- Cover is resistant to weathering, abrasion, and the exposure to oil.
- Compounded to resist extreme cold temperatures to -65°F.
- Remains flexible, even under extreme cold temperatures.
- All sizes are full vacuum.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Plies	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4410-0300-100	3	76.20	3.55	90.17	2	150	10.35	29.0	1.83	2.72	6.00	151.20	100
4410-0400-100	4	101.60	4.59	116.59	2	150	10.35	29.0	2.39	3.56	9.00	226.80	100

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POWERING GLOBAL INDUSTRY

PETROLEUM HOSE

4415 OIL RETURN HOSE SAE 100R4

CONSTRUCTION: Tube is nitrile, black and smooth, ARPM Class A. Cover is CR, black, ARPM Class B. Reinforcement is a two-ply synthetic fabric with a wire helix.

TEMPERATURE: -40°F (-40°C) to +212°F (+100°C)

BRANDING: Jason logo 4415 SAE 100R4 RETURN LINE. Red mylar longitudinal stripe.

APPLICATION: For oil return lines of hydraulic systems in industrial and agricultural systems.

FEATURES:

- Cover is resistant to weathering and abrasion.
- Class A tube is highly oil resistant and will handle petroleum products having an aromatic content of 50%.
- All sizes are full vaccum.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Plies	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4415-0075-100	3/4	19.05	1.25	31.75	2	300	20.68	29.0	0.45	0.67	4.00	101.60	100
4415-0100-100	1	25.40	1.47	37.34	2	250	17.24	29.0	0.50	0.74	4.50	114.30	100
4415-0125-100	1-1/4	31.75	1.77	44.96	2	200	13.79	29.0	0.64	0.95	6.00	152.40	100
4415-0150-100	1-1/2	38.10	2.05	52.07	2	150	10.35	29.0	0.80	1.19	6.50	165.10	100
4415-0200-100	2	50.80	2.51	63.75	2	150	10.35	29.0	0.99	1.47	8.00	203.20	100

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PETROLEUM HOSE

POWERING GLOBAL INDUSTRY

4418 CRUDE OIL WASTE PIT SUCTION HOSE

SMOOTH COVER - DO NOT USE WITH REFINED PETROLEUM

CONSTRUCTION: Tube and cover are EPDM. Reinforcement is a two-ply synthetic fabric with a wire helix.

TEMPERATURE: -40°F (-40°C) to +150°F (+66°C)

BRANDING: Jason logo 4418 CRUDE OIL WASTE PIT SUCTION WP 150 PSI 10.35 BAR. Do not use with refined petroleum. Red mylar longitudinal stripe.

APPLICATION: Used for applications where full suction is required. Great for applications handling crude oil, salt and fresh water, tank bottoms and diesel fuels.

FEATURES:

- Weather and abrasion resistant.
- All sizes are full vacuum.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Plies	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4418-0150-100	1-1/2	38.10	2.01	51.00	2	150	10.35	29.0	0.77	1.15	5.30	135.00	100
4418-0200-100	2	50.80	2.50	63.50	2	150	10.35	29.0	0.99	1.47	7.90	200.00	100
4418-0300-100	3	76.20	3.56	90.50	2	150	10.35	29.0	1.76	2.62	13.40	340.00	100
4418-0400-100	4	101.60	4.57	116.00	2	150	10.35	29.0	2.29	2.29	17.70	450.00	100
4418-0600-100	6	152.40	6.61	168.00	2	150	10.35	29.0	4.69	7.00	26.80	680.00	100
4418-0800-020	8	203.20	8.82	224.00	2	150	10.35	29.0	8.34	12.46	37.80	960.00	20

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POWERING GLOBAL INDUSTRY

PETROLEUM HOSE

4419 CRUDE OIL WASTE PIT SUCTION HOSE

CORRUGATED COVER - DO NOT USE WITH REFINED PETROLEUM

CONSTRUCTION: Tube and cover are EPDM. Reinforcement is a two-ply synthetic fabric with a wire helix.

TEMPERATURE: -40°F (-40°C) to +150°F (+66°C)

BRANDING: Jason logo 4419 CRUDE OIL WASTE PIT SUCTION WP 150 PSI 10.35 BAR. Do not use with refined petroleum. Red mylar longitudinal stripe.

APPLICATION: Used for applications where full suction is required. Great for applications handling crude oil, salt and fresh water, tank bottoms and diesel fuels.

FEATURES:

- Weather and abrasion resistant.
- All sizes are full vacuum.
- Corrugated cover makes this hose very flexible.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Plies	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4419-0150-100	1-1/2	38.10	2.01	51.00	2	150	10.35	29.0	0.77	1.15	5.30	135.00	100
4419-0200-100	2	50.80	2.50	63.50	2	150	10.35	29.0	0.99	1.47	7.90	200.00	100
4419-0300-100	3	76.20	3.56	90.50	2	150	10.35	29.0	1.76	2.62	13.40	340.00	100
4419-0400-100	4	101.60	4.57	116.00	2	150	10.35	29.0	2.29	2.29	17.70	450.00	100

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PETROLEUM HOSE

POWERING GLOBAL INDUSTRY

4429 HOT TAR & ASPHALT SUCTION HOSE - 150 PSI

CONSTRUCTION: Tube is a special elastomer compound, black and smooth, that is synthetic oil, abrasion and heat resistant. Cover is a blend of synthetic elastomer compounds, black and smooth, and anti-static. Reinforcement is a two-or-four-ply high tensile cord with a steel wire helix.

TEMPERATURE: -22°F (-30°C) to +356°F (+180°C)

BRANDING: Jason logo 4429 HOT ASPHALT 356°F/180°C 150 PSI 4:1. Embossed brand.

APPLICATION: Hose is specially designed for conveying hot tar and asphalt.

FEATURES:

- Cover is resistant to weathering and abrasion.
- Cover is also anti-static, oil and heat resistant.
- Special tube compound is heat (up to 356°F) and abrasion resistant.
- All sizes are full vacuum.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Plies	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4429-0200-100	2	50.80	2.72	69.00	2	150	10.35	29.0	1.77	2.65	10.00	254.00	100
4429-0300-100	3	76.20	3.78	96.00	2	150	10.35	29.0	2.82	4.21	15.00	380.00	100
4429-0400-100	4	101.60	4.80	122.00	4	150	10.35	29.0	3.82	5.70	20.00	510.00	100

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POWERING GLOBAL INDUSTRY

STEAM HOSE

FOR THE TRANSFER OF SATURATED STEAM

Hoses are constantly being upgraded. Jason Industrial reserves the right to make changes in construction without prior notice.

STEAM HOSE

POWERING GLOBAL INDUSTRY

4815 EPDM STEAM HOSE

CONSTRUCTION: The tube and cover are EPDM. The cover is pin-pricked with fabric impression. Reinforcement is two plies of steel wire.

TEMPERATURE: To +450°F (+232°C)

BRANDING: Jason logo 4815 EPDM WP 250 PSI 17.25 BAR. DRAIN AFTER USE. Reverse white mylar longitudinal stripe.

APPLICATION: For the conveyance of steam in chemical/petroleum, food, lumber, pulp and processing industries.

FEATURES:

- High working pressure.
- High temperature rating.
- Cover is weather and ozone resistant.
- Cover is pin-pricked to allow venting to eliminate blistering and cover separation.

WARNING: Do not use Universal Couplings with Steam Hose

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Plies	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4815-0050-050	1/2	12.70	1.00	25.40	2	250	17.25	n/a	0.40	0.60	5.90	150.00	50
4815-0050-100	1/2	12.70	1.00	25.40	2	250	17.25	n/a	0.40	0.60	5.90	150.00	100
4815-0075-050	3/4	19.05	1.25	31.75	2	250	17.25	n/a	0.51	0.76	8.30	210.00	50
4815-0075-100	3/4	19.05	1.25	31.75	2	250	17.25	n/a	0.51	0.76	8.30	210.00	100
4815-0100-050	1	25.40	1.50	38.10	2	250	17.25	n/a	0.67	1.00	11.00	280.00	50
4815-0100-100	1	25.40	1.50	38.10	2	250	17.25	n/a	0.67	1.00	11.00	280.00	100
4815-0125-050	1-1/4	31.75	1.81	46.04	2	250	17.25	n/a	0.87	1.29	14.00	355.00	50
4815-0125-100	1-1/4	31.75	1.81	46.04	2	250	17.25	n/a	0.87	1.29	14.00	355.00	100
4815-0150-050	1-1/2	38.10	2.13	54.61	2	250	17.25	n/a	1.11	1.65	16.50	420.00	50
4815-0150-100	1-1/2	38.10	2.13	54.61	2	250	17.25	n/a	1.11	1.65	16.50	420.00	100
4815-0200-050	2	50.80	2.64	67.07	2	250	17.25	n/a	1.80	2.68	22.00	560.00	50
4815-0200-100	2	50.80	2.64	67.07	2	250	17.25	n/a	1.80	2.68	22.00	560.00	100
4815-0300-050	3	76.20	3.81	96.84	2	250	17.25	n/a	3.17	4.72	30.00	762.00	50

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POWERING GLOBAL INDUSTRY

STEAM HOSE

STEAM HOSE SAFETY RECOMMENDATIONS

Reprinted from ARPM-11-1 Steam Hose

Handling steam is a very hazardous situation. Using care and some safety precaution can minimize or eliminate personal or property damage.

SELECTING AND USING STEAM HOSE

1. Make sure steam hose is identified as a steam hose. It should be branded as such, stating working pressure and temperature rating.
2. Make sure working pressure and temperature is not exceeded.
3. Do not allow hose to remain under pressure when not in use.
4. Avoid excess bending or flexing of hose near the coupling. Straight line operation is preferred. If bends are necessary as a part of operation, spring guards may help.
5. Be sure and use recommended steam hose couplings and clamps on hose.

MAINTENANCE OF STEAM HOSE

1. Periodic inspection of hose should include looking for cover blisters and lumps.
2. Check for kinked areas that could damage hose.
3. Drain hose after each use to avoid tube damage before hose is put back in operation, to avoid "popcorning" of the tube.
4. Check tightness of clamps and bolts after each use.
5. Check to see if clamp halves are touching. If they are, recouple hose with smaller clamps to ensure proper tightness or grip around hose.
6. Do not store hose over hooks.
7. Steam hose laying on metal racks or installed around steel piping will dry out the hose, causing tube and cover cracking.

CORROSIVE STEAM

When the water used to generate steam contains dissolved air, oxygen or carbon dioxide, then these gases end up as contaminants in the steam. At high temperatures of steam, both oxygen and carbon dioxide are extremely corrosive.

Carbon dioxide is acidic and therefore attacks metals, whereas the oxygen corrodes metals and oxidizes rubbers. Corrosion of metals in the presence of both oxygen and acids is forty times faster than with either alone. Boiler water is therefore normally treated not only to remove the "hardness," which could cause "furring" of the boiler, but also to remove dissolved oxygen and carbon dioxide and to ensure that the steam is not only non-acidic, but even slightly alkaline. Boiler water treatment is a specialized subject beyond the scope of this technical sheet, but correct steam generation is important.

DETERIORATION OF STEAM HOSE

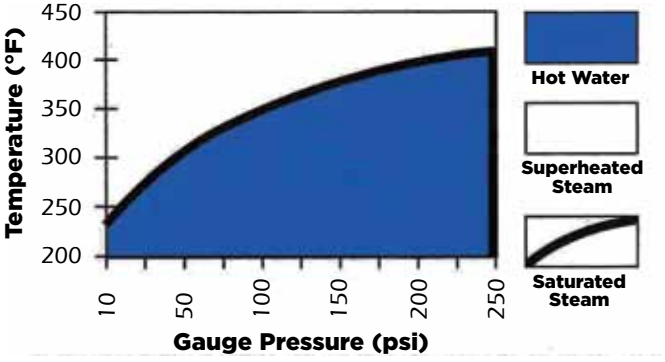
Like all rubber products, steam hoses have a finite life and are subject to gradual deterioration with use. However, it sometimes happens that hoses which have been giving a good life suddenly start failing without apparent reason. In such cases, it is often a change in the steam conditions causing a rapid acceleration of a normal failure mode. It is therefore useful to consider how steam hoses normally last and thus how the condition of the steam affects hose life

SELECTING AND USING STEAM HOSE

GAUGE PRESSURE PSI	GAUGE PRESSURE BAR	TEMPERATURE °C	TEMPERATURE °F
25	1.73	130	267
30	2.07	134	274
35	2.42	138	281
40	2.76	141	287
45	3.11	144	292
50	3.45	148	298
60	4.14	153	307
70	4.83	158	316
80	5.52	162	324
90	6.21	166	330
100	6.90	170	338
120	8.28	177	350
140	9.66	182	361
160	11.04	188	371
180	12.42	193	379
200	13.80	198	388
225	15.53	203	397
250	17.25	208	406
275	18.98	212	414
300	20.70	216	422
325	22.43	221	429
350	24.15	225	437

The chart represents the three forms of water when subjected to heat and pressure. Use only hoses specifically designed for the application.

GAUGE PRESSURE PSI	TEMPERATURE OF SATURATED STEAM (°F)
10	239
25	267
50	298
75	320
100	338
125	353
150	366
175	377
200	388
225	397
250	406

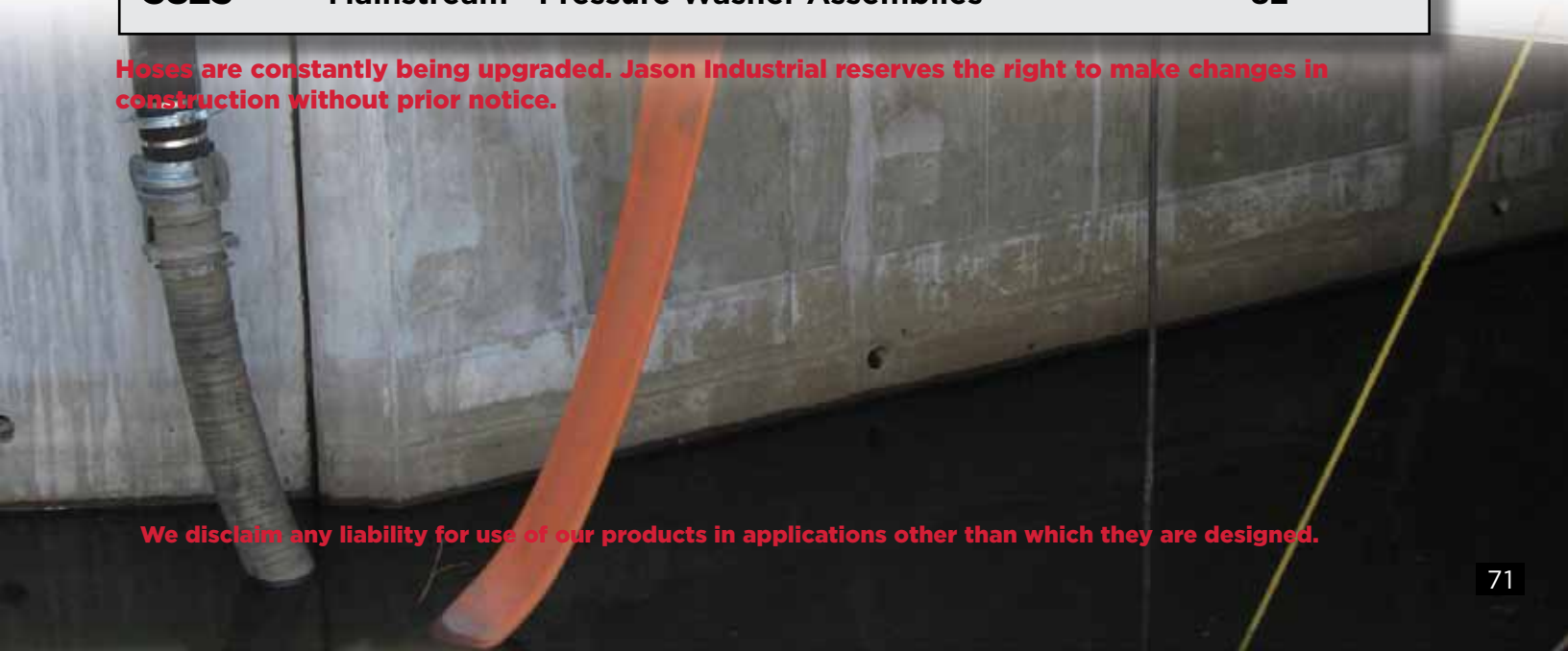


WATER HOSE

POWERING GLOBAL INDUSTRY

FOR THE TRANSFER OF WATER, WASHDOWN JETTING & IRRIGATION

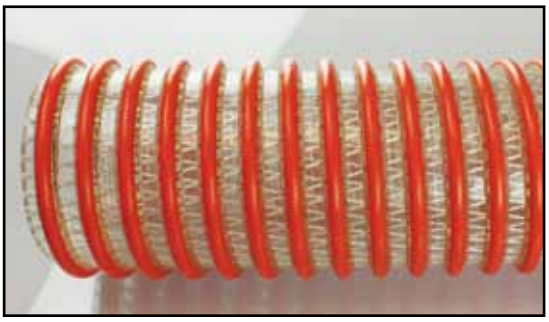
Hoses are constantly being upgraded. Jason Industrial reserves the right to make changes in construction without prior notice.



POWERING GLOBAL INDUSTRY

WATER HOSE

3076 HEAVY-DUTY PVC SUCTION & TRANSFER HOSE



CONSTRUCTION: PVC tube and sturdy clockwise PVC helix with high tensile strength polyester yarn reinforcement.

TEMPERATURE: -13°F (-25°C) to +140°F (+60°C)

APPLICATION: HD fish suction and transfer. Also HD water suction and transfer for rental, construction and trash pumps.

FEATURES:

- Clear visual flow.
- Higher transfer pressures.
- Excellent flexibility.
- Easy to drag with "Go-Glide" external clockwise PVC helix.
- Vacuum up to 29" of Hg.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Braids	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
3076-0150-100	1-1/2	38.10	2.03	51.56	1	110	7.58	29.0	0.47	0.70	2.50	63.50	100
3076-0200-100	2	50.80	2.60	66.04	1	100	6.89	29.0	0.69	1.03	4.00	101.60	100
3076-0250-100	2-1/2	63.50	3.01	76.45	1	100	6.89	29.0	0.74	1.10	5.00	127.00	100
3076-0300-100	3	76.20	3.70	93.98	1	100	6.89	28.0	1.13	1.68	6.00	152.40	100
3076-0400-100	4	101.60	4.78	121.41	1	80	5.52	28.0	1.74	2.59	7.00	177.80	100
3076-0500-100	5	127.00	6.04	153.42	1	80	5.52	28.0	2.99	4.45	9.00	228.60	100
3076-0600-020	6	152.40	7.17	182.12	1	70	4.83	28.0	2.99	4.45	9.00	228.60	20
3076-0600-100	6	152.40	7.17	182.12	1	70	4.83	28.0	3.88	5.77	10.00	254.00	100
3076-0800-020	8	203.20	9.34	237.24	1	60	4.14	28.0	5.55	8.26	16.00	406.40	20
3076-1000-020	10	254.00	11.63	295.40	1	40	2.76	28.0	8.90	13.24	25.00	635.00	20

Note: Discharge pressures and vacuum are temperature dependent.

***MBR = Minimum Bend Radius**

Working pressure is temperature dependent. See page 5 for more information.

All sizes may not be stocked in all locations. Check with customer service for availability.

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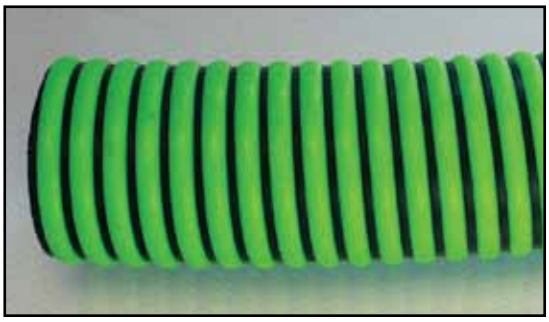
WATER HOSE

POWERING GLOBAL INDUSTRY

3080 EPDM SUCTION HOSE



CONSTRUCTION: EPDM tube with polyethylene clockwise helix.

TEMPERATURE: -40°F (-40°C) to +140°F (+60°C)

APPLICATION: Septic, waste water and liquid manure handling; agricultural liquid fertilizers and standard duty water suction, as well as suction and transfer for rental, construction and trash pumps.

FEATURES:

- Mild EPDM chemical resistance.
- -40°F cold weather resistance.
- Sub-zero flexibility.
- Clockwise polyethylene helix.
- Vacuum up to 29″ of Hg.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Braids	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
3080-0150-100	1-1/2	38.10	1.85	46.99	PE Helix	50	3.45	29.0	0.41	0.61	3.80	96.50	100
3080-0200-100	2	50.80	2.43	61.72	PE Helix	50	3.45	29.0	0.67	1.00	5.50	139.70	100
3080-0300-100	3	76.20	3.52	89.41	PE Helix	45	3.10	29.0	1.10	1.64	7.50	190.50	100
3080-0400-100	4	101.60	4.60	116.84	PE Helix	38	2.62	29.0	1.84	2.74	11.50	292.10	100

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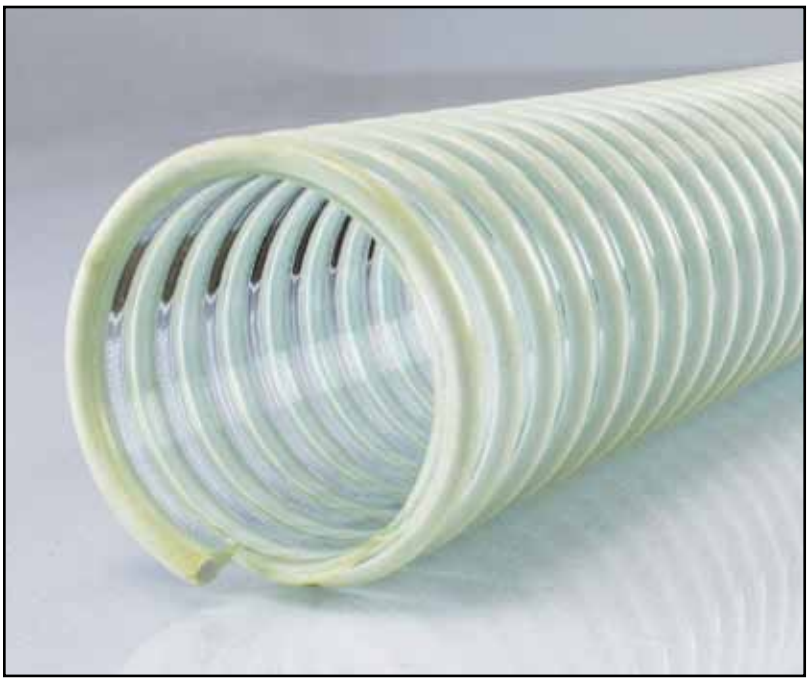
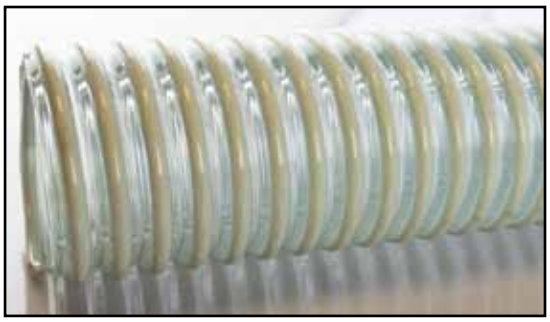
POWERING GLOBAL INDUSTRY

WATER HOSE

3074 HD SUB-ZERO COLD WEATHER CLEAR PVC SUCTION HOSE





CONSTRUCTION: PVC tube with sturdy clockwise PVC helix.

TEMPERATURE: -40°F (-40°C) to +140°F (+60°C)

APPLICATION: Heavy duty water suction and transfer for rental, construction and trash pumps in sub-zero weather conditions.

FEATURES:

- Clear visual flow.
- -40°F cold weather resistance.
- Sub-zero flexibility.
- Easy to drag with "Go-Glide" external clockwise PVC helix.
- Vacuum up to 29" of Hg.

Part Number	I.D.		O.D.		Rein. Braids	Max W.P. @68°F		Vacuum @68°F	Weight		MBR*		Std. Lgth. (ft)
	in.	mm.	in.	mm.		PSI	BAR		lb./ft.	KG/m	in.	mm	
3074-0100-100	1	25.40	1.22	30.99	PVC Helix	43	2.97	29.0	0.15	0.22	2.00	50.80	100
3074-0125-100	1-1/4	31.75	1.48	37.59	PVC Helix	36	2.48	29.0	0.18	0.27	2.50	63.50	100
3074-0150-100	1-1/2	38.10	1.82	46.23	PVC Helix	36	2.48	29.0	0.28	0.42	2.50	63.50	100
3074-0200-100	2	50.80	2.35	59.69	PVC Helix	36	2.48	29.0	0.44	0.65	3.00	76.20	100
3074-0250-100	2-1/2	63.50	2.87	72.90	PVC Helix	28	1.93	29.0	0.60	0.89	5.00	127.00	100
3074-0300-100	3	76.20	3.50	88.90	PVC Helix	28	1.93	29.0	0.85	1.26	6.00	152.40	100
3074-0400-100	4	101.60	4.63	117.60	PVC Helix	21	1.45	29.0	1.34	1.99	9.00	228.60	100
3074-0500-100	5	127.00	5.63	143.00	PVC Helix	21	1.45	28.0	2.20	3.27	10.00	254.00	100
3074-0600-100	6	152.40	6.73	170.94	PVC Helix	21	1.45	28.0	2.72	4.05	11.00	279.40	100
3074-0800-020	8	203.20	9.04	229.62	PVC Helix	21	1.45	28.0	4.84	7.20	16.00	406.40	20
3074-1000-020	10	254.00	11.18	283.97	PVC Helix	14	0.97	28.0	7.06	10.51	30.00	762.00	20
3074-1200-020	12	304.80	13.30	337.82	PVC Helix	14	0.97	26.0	9.74	14.49	40.00	1016.00	20

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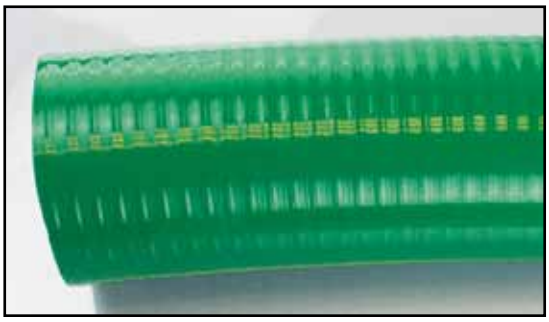
POWERING GLOBAL INDUSTRY

4601 GREEN PVC WATER SUCTION HOSE



CONSTRUCTION: Tube is PVC, smooth, green. Cover is also PVC, smooth to lightly corrugated. Reinforcement is a PVC helix.

TEMPERATURE: -14°F (-26°C) to +150°F (+66°C)

BRANDING: None.

APPLICATION: Suction, discharge or gravity flow of water, salt water and oily water in construction, agriculture, mining or equipment rental.

FEATURES:

- Cover is weather, ozone and UV resistant.
- Lightweight and flexible.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Braids	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4601-0750	3/4	19.05	0.95	24.13	PVC Helix	100	6.89	28.0	0.16	0.24	2.00	50.80	100
4601-1000	1	25.40	1.22	30.99	PVC Helix	100	6.89	28.0	0.20	0.30	5.00	127.00	100
4601-1250	1-1/4	31.75	1.41	35.81	PVC Helix	100	6.89	28.0	0.26	0.39	6.00	152.40	100
4601-1500	1-1/2	38.10	1.77	44.96	PVC Helix	100	6.89	28.0	0.35	0.52	7.00	177.80	100
4601-2000	2	50.80	2.32	58.93	PVC Helix	100	6.89	28.0	0.54	0.80	9.00	228.60	100
4601-2500	2-1/2	63.50	2.87	72.90	PVC Helix	80	5.52	26.0	0.70	1.04	11.00	279.40	100
4601-3000	3	76.20	3.35	85.09	PVC Helix	75	5.17	26.0	0.93	1.38	14.00	355.60	100
4601-4000	4	101.60	4.49	114.05	PVC Helix	60	4.14	26.0	1.48	2.20	18.00	457.20	100
4601-6050	6	152.50	6.46	164.08	PVC Helix	50	3.45	26.0	2.89	4.30	31.00	787.40	50

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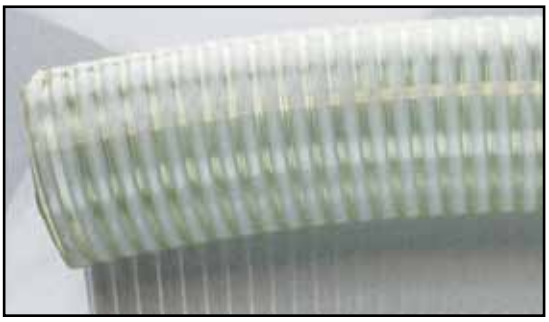
POWERING GLOBAL INDUSTRY

WATER HOSE

4615 CLEAR/WHITE HELIX PVC WATER SUCTION HOSE



CONSTRUCTION: Tube is PVC, smooth, clear. Cover is also PVC, smooth to lightly corrugated. Reinforcement is a PVC helix.

TEMPERATURE: -14°F (-26°C) to +150°F (+66°C)

BRANDING: None.

APPLICATION: Suction, discharge or gravity flow of water, salt water and oily water in construction, agriculture, mining or equipment rental.

FEATURES:

- Cover is weather, ozone and UV resistant.
- Lightweight and flexible.
- Allows for visual flow inspection.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Plies	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4615-0750	3/4	19.05	0.95	24.13	PVC Helix	100	6.89	28.0	0.16	0.24	2.00	50.80	100
4615-1000	1	25.40	1.22	30.99	PVC Helix	100	6.89	28.0	0.20	0.30	5.00	127.00	100
4615-1250	1-1/4	31.75	1.41	35.81	PVC Helix	100	6.89	28.0	0.26	0.39	6.00	152.40	100
4615-1500	1-1/2	38.10	1.77	44.96	PVC Helix	100	6.89	28.0	0.35	0.52	7.00	177.80	100
4615-2000	2	50.80	2.32	58.93	PVC Helix	100	6.89	28.0	0.54	0.80	9.00	228.60	100
4615-2500	2-1/2	63.50	2.87	72.90	PVC Helix	80	5.52	26.0	0.70	1.04	11.00	279.40	100
4615-3000	3	76.20	3.35	85.09	PVC Helix	75	5.17	26.0	0.93	1.38	14.00	355.60	100
4615-4000	4	101.60	4.49	114.05	PVC Helix	60	4.14	26.0	1.48	2.20	18.00	457.20	100
4615-6050	6	152.50	6.46	164.08	PVC Helix	50	3.45	26.0	2.89	4.30	31.00	787.40	50

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WATER HOSE

POWERING GLOBAL INDUSTRY

4450 RUBBER WATER SUCTION HOSE

CONSTRUCTION: Tube is EPDM blend, smooth and black. Cover is also a EPDM blend with a fabric impression. Reinforcement is either a two-ply or four-ply synthetic fabric with a double wire helix.

TEMPERATURE: -25°F (-32°C) to +185°F (+85°C)

BRANDING: Jason logo 4450 WATER SUCTION WP PSI (BAR).
Yellow mylar longitudinal stripe.

APPLICATION: For suction, discharge or gravity flow of water in construction, mining, oil exploration, agriculture and equipment rental.

FEATURES:

- Resistant to water-based ag fertilizers.
- Resistant to salt water.
- Cover is abrasion and weather resistant.
- Flexible and economical.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Plies	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4450-0100-100	1	25.40	1.42	36.00	2	150	10.35	28.0	0.50	0.75	3.75	95.00	100
4450-0125-100	1-1/4	31.75	1.70	43.18	2	150	10.35	28.0	0.75	1.12	6.00	152.40	100
4450-0150-100	1-1/2	38.10	1.96	49.78	2	150	10.35	28.0	0.80	1.19	6.50	165.10	100
4450-0200-100	2	50.80	2.49	63.25	2	150	10.35	28.0	1.11	1.65	8.00	203.20	100
4450-0200-200	2	50.80	2.49	63.25	2	150	10.35	28.0	1.11	1.65	8.00	230.20	200
4450-0250-100	2-1/2	63.50	2.99	75.95	2	150	10.35	28.0	1.75	2.60	10.00	254.00	100
4450-0300-100	3	76.20	3.50	88.90	2	150	10.35	28.0	2.24	3.33	12.00	304.80	100
4450-0300-200	3	76.20	3.50	88.90	2	150	10.35	28.0	2.24	3.33	12.00	304.80	200
4450-0400-100	4	101.60	4.53	115.06	2	150	10.35	28.0	2.79	4.15	18.00	457.20	100
4450-0400-200	4	101.60	4.53	115.06	2	150	10.35	28.0	2.79	4.15	18.00	457.20	200
4450-0500-100	5	127.00	5.68	144.27	2	150	10.35	28.0	3.25	4.84	26.00	660.40	100
4450-0600-020	6	152.40	6.54	166.12	2	150	10.35	28.0	5.75	8.56	31.00	787.40	20
4450-0600-050	6	152.40	6.54	166.12	2	150	10.35	28.0	5.75	8.56	31.00	787.40	50
4450-0600-100	6	152.40	6.54	166.12	2	150	10.35	28.0	5.75	8.56	31.00	787.40	100
4450-0800-020	8	203.20	8.79	223.27	4	100	6.89	28.0	6.59	9.81	42.00	1066.80	20
4450-1000-020	10	254.00	10.91	277.11	4	75	5.17	28.0	10.25	15.25	50.00	1270.00	20
4450-1200-020	12	340.80	12.91	327.91	4	75	5.17	25.0	13.50	20.09	60.00	1524.00	20
4450-1400-020	14	355.60	15.13	384.20	4	45	3.10	25.0	16.75	24.93	72.00	1828.80	20

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POWERING GLOBAL INDUSTRY

WATER HOSE

4449 FRAC WATER SUCTION HOSE

CONSTRUCTION: Tube and cover are an EPDM/SBR blend, smooth and black. Reinforcement is a two-ply synthetic fabric with a wire helix.

TEMPERATURE: -25°F (-32°C) to +185°F (+85°C)

BRANDING: Jason logo 4449 FRAC WATER SUCTION WP 75 PSI 5.18 BAR. Red mylar longitudinal stripe.

APPLICATION: For suction, recycling or disposal of flowback water.

FEATURES:

- EPDM blend cover makes it resistant to heat, weather and abrasion.
- Lighter than standard water suction hose and more flexible.
- Economical.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Plies	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4449-0200-100	2	50.80	2.40	60.96	2	75	5.18	29.0	0.97	1.44	8.00	203.20	100
4449-0300-100	3	76.20	3.39	88.90	2	75	5.18	29.0	1.52	2.26	12.00	304.80	100
4449-0400-100	4	101.60	4.41	112.01	2	75	5.18	29.0	2.12	3.15	18.00	457.20	100
4449-0600-100	6	152.40	6.57	167.00	2	75	5.18	29.0	4.68	6.98	31.00	787.40	100

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WATER HOSE

POWERING GLOBAL INDUSTRY

4352 RUBBER 2-PLY WATER DISCHARGE HOSE

CONSTRUCTION: Tube and cover are SBR, black. Reinforcement is a two-ply synthetic fabric.

TEMPERATURE: -25°F (-32°C) to +185°F (+85°C)

BRANDING: Jason logo 4352 I.D. WATER DISCHARGE WP PSI BAR.
Yellow mylar longitudinal stripe.

APPLICATION: For general construction, mines and water discharge and equipment rental.

FEATURES:

- Cover compound makes it resistant to weather and ozone.
- Lays flat and rolls up for easy storage.
- Ideal for standard working pressure.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Plies	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4352-0150-100	1-1/2	38.10	1.81	45.97	2	150	10.35	n/a	0.60	0.89	15.00	380.00	100
4352-0200-100	2	50.80	2.31	58.67	2	150	10.35	n/a	0.84	1.25	20.00	508.00	100
4352-0250-100	2-1/2	63.50	2.75	69.85	2	150	10.35	n/a	0.91	1.35	25.00	635.00	100
4352-0300-100	3	76.20	3.38	85.85	2	150	10.35	n/a	1.12	1.67	30.00	762.00	100
4352-0400-100	4	101.60	4.37	111.00	2	150	10.35	n/a	1.25	1.86	40.00	1016.00	100
4352-0500-100	5	127.00	5.51	139.95	2	150	10.35	n/a	2.29	3.41	50.00	1270.00	100
4352-0600-050	6	152.40	6.50	165.10	2	150	10.35	n/a	3.45	5.13	60.00	1524.00	50
4352-0600-100	6	152.40	6.50	165.10	2	150	10.35	n/a	3.45	5.13	60.00	1524.00	100
4352-0800-050	8	203.20	8.50	215.90	2	100	6.89	n/a	4.30	6.40	80.00	2030.00	50
4352-0800-100	8	203.20	8.50	215.90	2	100	6.89	n/a	4.30	6.40	80.00	2030.00	100
4352-1000-050	10	254.00	10.50	266.70	2	100	6.89	n/a	5.40	8.04	100.00	2450.00	50
4352-1200-050	12	304.80	12.50	317.50	2	100	6.89	n/a	6.75	10.04	120.00	3058.00	50

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POWERING GLOBAL INDUSTRY

WATER HOSE

4354 RUBBER 4-PLY WATER DISCHARGE HOSE

CONSTRUCTION: Tube and cover are SBR, black. Reinforcement is a four-ply synthetic fabric.

TEMPERATURE: -25°F (-32°C) to +185°F (+85°C)

BRANDING: Jason logo 4354 I.D. WATER DISCHARGE WP PSI BAR.
Yellow mylar longitudinal stripe.

APPLICATION: For water discharge in construction, mines & quarries. Also for heavy duty equipment rental.

FEATURES:

- Cover compound makes it resistant to weather and ozone.
- Lays flat and rolls up for easy storage.
- Ideal for high working pressure water discharge applications.
- Excellent for tough, rugged operating conditions.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Plies	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4354-0150-100	1-1/2	38.10	2.00	50.80	4	250	17.24	n/a	0.83	1.24	15.00	380.00	100
4354-0200-100	2	50.80	2.56	65.02	4	250	17.24	n/a	1.11	1.65	20.00	508.00	100
4354-0250-100	2-1/2	63.50	3.07	77.98	4	250	17.24	n/a	1.24	1.85	25.00	635.00	100
4354-0300-100	3	76.20	3.58	90.93	4	225	15.51	n/a	1.50	2.23	30.00	762.00	100
4354-0400-050	4	101.60	4.61	117.09	4	200	13.79	n/a	1.85	2.75	40.00	1016.00	50
4354-0400-100	4	101.60	4.61	117.09	4	200	13.79	n/a	1.85	2.75	40.00	1016.00	100
4354-0600-100	6	152.40	6.57	166.88	4	150	10.35	n/a	3.90	5.80	60.00	1524.00	100
4354-0800-050	8	203.20	8.66	219.96	4	125	8.62	n/a	5.25	7.81	80.00	2030.00	50
4354-1000-050	10	254.00	10.66	270.76	4	125	8.62	n/a	6.29	9.36	100.00	2540.00	50
4354-1200-050	12	304.80	12.68	322.07	4	125	8.62	n/a	7.09	10.54	120.00	3048.00	50
4354-1400-050	14	355.60	14.61	371.00	4	100	6.89	n/a	7.62	11.32	120.00	3048.00	50

***MBR = Minimum Bend Radius**
Working pressure is temperature dependent. See page 5 for more information.
All sizes may not be stocked in all locations. Check with customer service for availability.

WATER HOSE

POWERING GLOBAL INDUSTRY

4380 NON-CONDUCTIVE FURNACE DOOR HOSE

CONSTRUCTION: Tube is EPDM, white, smooth and non-conductive. Cover is a glass fiber ply impregnated with heat and flame-resistant synthetic rubber. Reinforcement is a two-ply synthetic fabric.

TEMPERATURE: -40°F (-40°C) to +266°F (+130°C)
Cover to +575°F (+302°C)

BRANDING: None

APPLICATION: Conveys cooling water to furnace doors in steel mills, glass plants and similar operations.

FEATURES:

- Superior heat resistant cover resists heat up to +575°F.
- Resists heat, open flame and splashes of white hot metal to +575°F (+302°C).
- EPDM tube is non-conductive.

Part Number	I.D. in.	I.D. mm.	O.D. in.	O.D. mm.	Rein. Plies	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	MBR* in.	MBR* mm	Std. Lgth. (ft)
4380-0050-100	1/2	12.70	0.91	23.11	2	150	10.35	n/a	0.20	0.30	5.00	127.00	100
4380-0075-100	3/4	19.05	1.19	30.23	2	150	10.35	n/a	0.30	0.45	7.50	190.00	100
4380-0100-100	1	25.40	1.38	35.05	2	150	10.35	n/a	0.50	0.74	10.00	254.00	100
4380-0125-100	1-1/4	31.75	1.75	44.45	2	150	10.35	n/a	0.90	1.34	12.60	320.00	100
4380-0150-100	1-1/2	38.10	2.00	50.80	2	150	10.35	n/a	1.00	1.49	15.00	380.00	100
4380-0200-100	2	50.80	2.53	64.26	2	150	10.35	n/a	1.10	1.64	20.00	508.00	100

***MBR = Minimum Bend Radius**
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POWERING GLOBAL INDUSTRY

WATER HOSE

5823 MAINSTREAM™ PRESSURE WASHER ASSEMBLIES

CONSTRUCTION: Tube and cover are made of special synthetic rubber. Reinforcement is a one wire braid.

TEMPERATURE: -40°F (-40°C) to +212°F (+100°C)

BRANDING: Jason logo 3/8 MAINSTREAM™ Pressure Washer - 3000 PSI MAX WP.
NOT FOR STEAM SERVICE

APPLICATION: Used in clean-up applications for poultry plants, dairies, off road equipment, paper mills, construction, homes and patios to name a few.

FEATURES:

- Cover is oil, weather and abrasion resistant.
- Handles working pressures up to 3000 lbs.
- Can be used with hot or cold water and mild detergents.
- Ergonomic bend restrictors are included in each assembly.
- Available in the popular 50′ and 75′ lengths.

Part Number	I.D. x Length	Coupling	Rein. Braids	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Weight/LG lb.	Weight/LG KG
5823-06-050	3/8" x 50' 9.5mm x 15.2m	3/8" MNPT x 3/8" MSPT w/ Ergonomic Bend Restrictor Each End	1	3000	206.70	10.02	14.94
5823-06-075	3/8" x 75' 9.5mm x 22.9m	3/8" MNPT x 3/8" MSPT w/ Ergonomic Bend Restrictor Each End	1	3000	206.70	15.48	23.08

Note: DO NOT USE FOR ANY STEAM APPLICATIONS

Working pressure is temperature dependent. See page 5 for more information.

All sizes may not be stocked in all locations. Check with customer service for availability.

WATER HOSE

POWERING GLOBAL INDUSTRY

4502 BLUE PVC WATER DISCHARGE BULK HOSE & ASSEMBLIES

CONSTRUCTION: Tube and cover are blue PVC. Reinforcement is knitted polyester yarn.

TEMPERATURE: -14°F (-26°C) to +150°F (+66°C)

BRANDING: Jason logo WP XX (PSI) ID.

APPLICATION: For general purpose water discharge in construction, agriculture and drip irrigation.

FEATURES:

- Light and easy to handle.
- Rolls flat for convenient storage.
- Homogeneous construction eliminates tube and cover separation.
- Maximum bonding is due to the tube and cover being extruded simultaneously.

BULK

Part Number	I.D. in.	I.D. mm.	Wall Thickness in.	Wall Thickness mm.	Rein.	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	Standard Lengths (ft.)
4502-1000	1	25.40	0.056	1.42	Knitted	85	5.86	n/a	0.10	0.15	300
4502-1500	1-1/2	38.10	0.056	1.42	Knitted	85	5.86	n/a	0.21	0.31	300
4502-1500-050	1-1/2	38.10	0.056	1.42	Knitted	85	5.86	n/a	0.21	0.31	50
4502-2000	2	50.80	0.056	1.42	Knitted	85	5.86	n/a	0.25	0.37	300
4502-2000-050	2	50.80	0.056	1.42	Knitted	85	5.86	n/a	0.25	0.37	50
4502-2500	2-1/2	63.50	0.060	1.52	Knitted	75	5.17	n/a	0.29	0.43	300
4502-3000	3	76.20	0.062	1.57	Knitted	70	4.83	n/a	0.39	0.58	300
4502-3000-050	3	76.20	0.062	1.57	Knitted	70	4.83	n/a	0.39	0.58	50
4502-4000	4	101.60	0.062	1.57	Knitted	70	4.83	n/a	0.60	0.89	300
4502-6000	6	152.40	0.077	1.96	Knitted	50	3.45	n/a	1.15	1.71	300
4502-8000	8	203.20	0.089	2.26	Knitted	45	3.10	n/a	1.20	1.79	300

HOSE ASSEMBLIES CUT • COUPLED • COILED • TIED

Part Number	I.D. in.	I.D. mm	Length (ft.)	Coupling	Rein.	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Weight lb./ft.	Weight KG/m
4502-1500-050AB	1-1/2	38.10	50	1-1/2" AB Pin Lug (M x F)	Knitted	85	5.86	9.00	13.30
4502-2000-050AB	2	50.80	50	2" AB Pin Lug (M x F)	Knitted	85	5.86	12.00	17.80
4502-3000-050AB	3	76.20	50	3" AB Pin Lug (M x F)	Knitted	70	4.83	22.00	32.60
4502-1500-050CE	1-1/2	38.10	50	1-1/2" Aluminum Cam Lock (C x E)	Knitted	85	5.86	9.00	13.30
4502-2000-050CE	2	50.80	50	2" Aluminum Cam Lock (C x E)	Knitted	85	5.86	12.00	17.80
4502-3000-050CE	3	76.20	50	3" Aluminum Cam Lock (C x E)	Knitted	70	4.83	22.00	32.60

Working pressure is temperature dependent. See page 5 for more information.

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POWERING GLOBAL INDUSTRY

WATER HOSE

4504 WINE RED PVC WATER DISCHARGE HOSE & ASSEMBLIES - MED. DUTY

CONSTRUCTION: Tube and cover are wine red PVC. Reinforcement is knitted polyester yarn.

TEMPERATURE: -14°F (-26°C) to +150°F (+66°C)

BRANDING: Jason logo WP XX (PSI) ID.

APPLICATION: For general purpose water discharge in construction, agriculture and drip irrigation.

FEATURES:

- Medium duty hose.
- Rolls flat for convenient storage.
- Homogeneous construction eliminates tube and cover separation.
- Maximum bonding is due to the tube and cover being extruded simultaneously.

BULK

Part Number	I.D. in.	I.D. mm.	Wall Thickness in.	Wall Thickness mm.	Rein.	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	Standard Lengths (ft.)
4504-1500	1-1/2	38.10	0.076	1.93	Knitted	115	7.93	n/a	0.21	0.31	300
4504-2000	2	50.80	0.076	1.93	Knitted	115	7.93	n/a	0.25	0.37	300
4504-2500	2-1/2	63.50	0.079	2.01	Knitted	115	7.93	n/a	0.29	0.43	300
4504-3000	3	76.20	0.079	2.01	Knitted	100	6.89	n/a	0.39	0.58	300
4504-4000	4	101.60	0.081	2.06	Knitted	100	6.89	n/a	0.60	0.89	300
4504-6000	6	152.40	0.112	2.84	Knitted	75	5.17	n/a	1.15	1.71	300
4504-8000	8	203.20	0.124	3.15	Knitted	60	4.14	n/a	1.20	1.79	300

HOSE ASSEMBLIES CUT • COUPLED • COILED • TIED

Part Number	I.D. in.	I.D. mm	Length (ft.)	Coupling	Rein.	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Weight lb./ft.	Weight KG/m
4504-2000-050AB	2	50.80	50	2" AB Pin Lug (M x F)	Knitted	115	7.93	12.00	17.80
4504-3000-050AB	3	76.20	50	3" AB Pin Lug (M x F)	Knitted	100	6.89	22.00	32.60
4504-2000-050CE	2	50.80	50	2" Aluminum Cam Lock (C x E)	Knitted	115	7.93	12.00	17.80
4504-3000-050CE	3	76.20	50	3" Aluminum Cam Lock (C x E)	Knitted	100	6.89	22.00	32.60

Working pressure is temperature dependent. See page 5 for more information.

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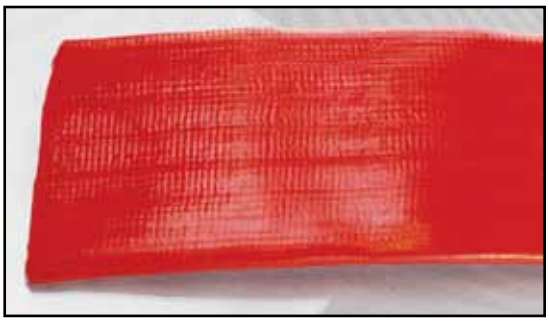
WATER HOSE

POWERING GLOBAL INDUSTRY

4515 RED PVC WATER DISCHARGE HOSE - HEAVY DUTY



CONSTRUCTION: Tube and cover are bright red PVC. Reinforcement is knitted polyester yarn.

TEMPERATURE: -14°F (-26°C) to +150°F (+66°C)

BRANDING: None

APPLICATION: For water discharge in construction, agriculture and heavy duty equipment rental.

FEATURES:

- High WP for heavy duty applications.
- Rolls flat for convenient storage.
- Homogeneous construction eliminates tube and cover separation.
- Maximum bonding is due to the tube and cover being extruded simultaneously.

Part Number	I.D. in.	I.D. mm.	Wall Thickness in.	Wall Thickness mm.	Rein.	Max W.P. @68°F PSI	Max W.P. @68°F BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	Standard Lengths (ft.)
4515-1500	1-1/2	38.10	0.090	2.29	Knitted	140	9.65	n/a	0.22	0.32	300
4515-2000	2	50.80	0.090	2.29	Knitted	130	8.96	n/a	0.26	0.38	300
4515-2500	2-1/2	63.50	0.098	2.49	Knitted	125	8.61	n/a	0.30	0.44	300
4515-3000	3	76.20	0.098	2.49	Knitted	125	8.61	n/a	0.40	0.59	300
4515-4000	4	101.60	0.110	2.79	Knitted	125	8.61	n/a	0.62	0.91	300
4515-6000	6	152.40	0.111	2.82	Knitted	115	7.92	n/a	1.18	1.75	300
4515-8000	8	203.20	0.111	2.82	Knitted	70	4.82	n/a	1.23	1.83	300

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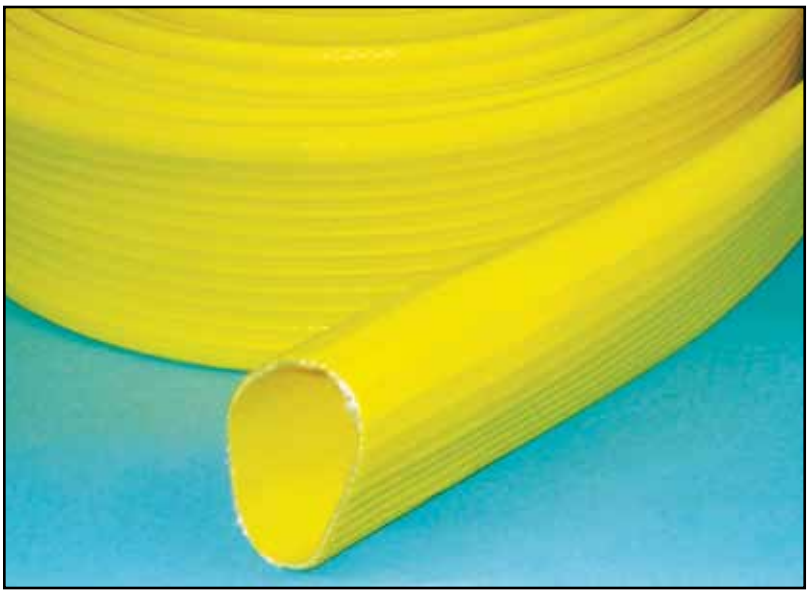
POWERING GLOBAL INDUSTRY

WATER HOSE

4358 NITRILE/PVC OIL RESISTANT DISCHARGE HOSE - YELLOW



CONSTRUCTION: Tube and cover are bright yellow NBR/PVC.

TEMPERATURE: -20°F (-29°C) to +210°F (+99°C)

BRANDING: None

APPLICATION: For use in industrial washdown, irrigation, general dewatering, pump discharge and drainage.

FEATURES:

- Up to 250 PSI (17.24 BAR) working pressure.
- Oil resistant tube and cover.
- Resists heat, cold, ozone and UV light.
- Lightweight and flexible.

Part Number	I.D.		Wall Thickness		Rein. Plies	Max W.P. @68°F		Vacuum @68°F	Weight		Standard Lengths (ft.)
	in.	mm.	in.	mm.		PSI	BAR		lb./ft.	KG/m	
4358-0075-050	3/4	19.05	0.110	2.79	n/a	250	17.25	n/a	0.10	0.15	50
4358-0075-100	3/4	19.05	0.110	2.79	n/a	250	17.25	n/a	0.10	0.15	100
4358-0100-050	1	25.40	0.110	2.79	n/a	250	17.25	n/a	0.14	0.21	50
4358-0100-100	1	25.40	0.110	2.79	n/a	250	17.25	n/a	0.14	0.21	100
4358-0150-050	1-1/2	38.10	0.110	2.79	n/a	250	17.25	n/a	0.26	0.39	50
4358-0150-100	1-1/2	38.10	0.110	2.79	n/a	250	17.25	n/a	0.26	0.39	100
4358-0200-050	2	50.80	0.110	2.79	n/a	250	17.25	n/a	0.34	0.51	50
4358-0200-100	2	50.80	0.110	2.79	n/a	250	17.25	n/a	0.34	0.51	100
4358-0250-050	2-1/2	63.50	0.110	2.79	n/a	250	17.25	n/a	0.47	0.70	50
4358-0250-100	2-1/2	63.50	0.110	2.79	n/a	250	17.25	n/a	0.47	0.70	100
4358-0300-050	3	76.20	0.110	2.79	n/a	250	17.25	n/a	0.65	0.97	50
4358-0300-100	3	76.20	0.110	2.79	n/a	250	17.25	n/a	0.65	0.97	100
4358-0400-050	4	102.40	0.110	2.79	n/a	200	13.79	n/a	0.83	1.24	50
4358-0400-100	4	102.40	0.110	2.79	n/a	200	13.79	n/a	0.83	1.24	100
4358-0600-050	6	152.40	0.110	2.79	n/a	150	10.35	n/a	1.60	2.39	50
4358-0600-100	6	152.40	0.110	2.79	n/a	150	10.35	n/a	1.60	2.39	100
4358-0800-050	8	204.80	0.110	2.79	n/a	150	10.35	n/a	2.30	3.43	50
4358-0800-100	8	204.80	0.110	2.79	n/a	150	10.35	n/a	2.30	3.43	100
4358-1000-050	10	254.00	0.160	4.06	n/a	150	10.35	n/a	3.20	4.77	50
4358-1000-100	10	254.00	0.160	4.06	n/a	150	10.35	n/a	3.20	4.77	100
4358-1200-050	12	304.80	0.170	4.32	n/a	150	10.35	n/a	3.50	5.22	50
4358-1200-100	12	304.80	0.170	4.32	n/a	150	10.35	n/a	3.50	5.22	100

Working pressure is temperature dependent. See page 5 for more information.

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POWERING GLOBAL INDUSTRY

4359 NITRILE/PVC OIL RESISTANT DISCHARGE HOSE - BLACK

CONSTRUCTION: Tube and cover are black NBR/PVC. **FEATURES:**

TEMPERATURE: -20°F (-29°C) to +210°F (+99°C)

BRANDING: None

APPLICATION: For use in industrial washdown, irrigation, general dewatering, pump discharge and drainage.

- Up to 250 PSI (17.24 BAR) working pressure.
- Oil resistant tube and cover.
- Resists heat, cold, ozone and UV light.
- Lightweight and flexible.
- 660 ft. lengths available in 4", 6" and 8" IDs.

Part Number	I.D.		Wall Thickness		Rein. Plies	Max W.P. @68°F		Vacuum @68°F	Weight		Standard Lengths (ft.)
	in.	mm.	in.	mm.		PSI	BAR		lb./ft.	KG/m	
4359-0075-050	3/4	19.05	0.110	2.79	n/a	250	17.25	n/a	0.10	0.15	50
4359-0075-100	3/4	19.05	0.110	2.79	n/a	250	17.25	n/a	0.10	0.15	100
4359-0100-050	1	25.40	0.110	2.79	n/a	250	17.25	n/a	0.14	0.21	50
4359-0100-100	1	25.40	0.110	2.79	n/a	250	17.25	n/a	0.14	0.21	100
4359-0150-050	1-1/2	38.10	0.110	2.79	n/a	250	17.25	n/a	0.26	0.39	50
4359-0150-100	1-1/2	38.10	0.110	2.79	n/a	250	17.25	n/a	0.26	0.39	100
4359-0200-050	2	50.80	0.110	2.79	n/a	250	17.25	n/a	0.34	0.51	50
4359-0200-100	2	50.80	0.110	2.79	n/a	250	17.25	n/a	0.34	0.51	100
4359-0250-050	2-1/2	63.50	0.110	2.79	n/a	250	17.25	n/a	0.47	0.70	50
4359-0250-100	2-1/2	63.50	0.110	2.79	n/a	250	17.25	n/a	0.47	0.70	100
4359-0300-050	3	76.20	0.110	2.79	n/a	250	17.25	n/a	0.65	0.97	50
4359-0300-100	3	76.20	0.110	2.79	n/a	250	17.25	n/a	0.65	0.97	100
4359-0400-050	4	102.40	0.110	2.79	n/a	200	13.79	n/a	0.83	1.24	50
4359-0400-100	4	102.40	0.110	2.79	n/a	200	13.79	n/a	0.83	1.24	100
4359-0400-660	4	152.40	0.110	2.79	n/a	200	13.79	n/a	0.83	1.24	660
4359-0600-050	6	152.40	0.110	2.79	n/a	150	10.35	n/a	1.60	2.39	50
4359-0600-100	6	152.40	0.110	2.79	n/a	150	10.35	n/a	1.60	2.39	100
4359-0600-660	6	152.40	0.110	2.79	n/a	150	10.35	n/a	1.60	2.39	660
4359-0800-050	8	204.80	0.110	2.79	n/a	150	10.35	n/a	2.30	3.43	50
4359-0800-100	8	204.80	0.110	2.79	n/a	150	10.35	n/a	2.30	3.43	100
4359-0800-660	8	204.80	0.110	2.79	n/a	150	10.35	n/a	2.30	3.43	660
4359-1000-050	10	254.00	0.160	4.06	n/a	150	10.35	n/a	3.20	4.77	50
4359-1000-100	10	254.00	0.160	4.06	n/a	150	10.35	n/a	3.20	4.77	100
4359-1200-050	12	304.80	0.170	4.32	n/a	150	10.35	n/a	3.50	5.22	50
4359-1200-100	12	304.80	0.170	4.32	n/a	150	10.35	n/a	3.50	5.22	100

Working pressure is temperature dependent. See page 5 for more information.
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POWERING GLOBAL INDUSTRY

WATER HOSE

4703 HEAVY DUTY DJ MILL DISCHARGE HOSE & ASSEMBLIES

CONSTRUCTION: Tube is SBR, smooth and black. The cover is a double jacket made with 100% polyester.

TEMPERATURE: -25°F (-32°C) to +185°F (+85°C)

BRANDING: Service Pressure 300 PSI.

APPLICATION: Municipal washdown or hydrant-to-truck water supply line. Heavy duty equip ment/pump rental, ship/deck washdown.

FEATURES:

- Double cover gives heavy duty abrasion resistance.
- Rolls flat for easy storage.
- Economical, lightweight and flexible.
- Double cover increases service pressure rating.

BULK

Part Number	I.D. in.	I.D. mm.	Cplng Bowl in.	Cplng Bowl mm.	Rein. Plies	Serv. Press. PSI	Serv. Press. BAR	Test Press. PSI	Test Press. BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	Standard Lengths (ft.)
4703-1500	1-1/2	38.10	1.94	46.04	n/a	300	41.36	600	41.36	n/a	0.26	0.39	50
4703-2000	2	50.80	2.50	58.74	n/a	300	41.36	600	41.36	n/a	0.33	0.49	50
4703-2500	2-1/2	63.50	2.81	71.44	n/a	300	41.36	600	41.36	n/a	0.45	0.67	50
4703-1501	1-1/2	38.10	1.94	46.04	n/a	300	41.36	600	41.36	n/a	0.26	0.39	100
4703-2001	2	50.80	2.50	58.74	n/a	300	41.36	600	41.36	n/a	0.33	0.49	100
4703-2501	2-1/2	63.50	2.81	71.44	n/a	300	41.36	600	41.36	n/a	0.45	0.67	100

HOSE ASSEMBLIES CUT • COUPLED • COILED • TIED

Part Number	I.D. in.	I.D. mm.	Rein. Plies	Thread	Weight (lb/ft.)	Weight (kg/m)	Standard Lengths (ft.)
4703-1500-050ERNPS	1-1/2	38.10	n/a	NPS	15.00	22.32	50
4703-1500-050ERNST	1-1/2	38.10	n/a	NST	15.00	22.32	50
4703-2000-050ERNPS	2	50.80	n/a	NPS	20.00	29.76	50
4703-2500-050ERNPS	2-1/2	63.50	n/a	NPS	25.00	37.20	50
4703-2500-050ERNST	2-1/2	63.50	n/a	NST	25.00	37.20	50

Couplings are internally expanded, aluminum, hardcoated NPS or NST Male x Female rocker lug

Note: Assembly is rated at 150 PSI. **Working pressure is temperature dependent. See page 5 for more information.**

All sizes may not be stocked in all locations. Check with customer service for availability.

We disclaim any liability for use of our products in applications other than which they are designed.

WATER HOSE

POWERING GLOBAL INDUSTRY

4705 MUNICIPAL GRADE SJ MILL DISCHARGE HOSE & ASSEMBLIES

CONSTRUCTION: Tube is SBR, smooth and black. Cover is a single jacket made with 100% polyester.

TEMPERATURE: -25°F (-32°C) to +185°F (+85°C)

BRANDING: ID SJ Mill WP (PSI) (BAR).

APPLICATION: For water discharge service in rental yards, fleet service, municipal washdown and utility dewatering.

FEATURES:

- HD synthetic cover gives better abrasion resistance.
- Rolls flat for convenient storage.
- Economical, lightweight and flexible.
- Hose is designed for higher working pressures.

BULK

Part Number	I.D. in.	I.D. mm.	Cplng Bowl in.	Cplng Bowl mm.	Rein. Plies	W.P. PSI	W.P. BAR	Burst Press. PSI	Burst Press. BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	Standard Lengths (ft.)
4705-0150-050	1-1/2	38.10	1.81	46.04	n/a	230	15.86	345	23.79	n/a	0.23	0.34	50
4705-0150-100	1-1/2	38.10	1.81	46.04	n/a	230	15.86	345	23.79	n/a	0.23	0.34	100
4705-0200-050	2	50.80	2.31	58.74	n/a	230	15.86	345	23.79	n/a	0.28	0.42	50
4705-0200-100	2	50.80	2.31	58.74	n/a	230	15.86	345	23.79	n/a	0.28	0.42	100
4705-0250-050	2-1/2	63.50	2.81	71.44	n/a	200	13.79	300	20.68	n/a	0.39	0.58	50
4705-0250-100	2-1/2	63.50	2.81	71.44	n/a	200	13.79	300	20.68	n/a	0.39	0.58	100
4705-0300-050	3	76.20	3.38	85.73	n/a	200	13.79	300	20.68	n/a	0.50	0.74	50
4705-0300-100	3	76.20	3.38	85.73	n/a	200	13.79	300	20.68	n/a	0.50	0.74	100
4705-0400-050	4	101.60	4.38	111.13	n/a	200	13.79	300	20.68	n/a	0.66	0.98	50
4705-0400-100	4	101.60	4.38	111.13	n/a	200	13.79	300	20.68	n/a	0.66	0.98	100
4705-0600-050	6	152.40	6.38	161.93	n/a	200	13.79	300	20.68	n/a	1.00	1.49	50

HOSE ASSEMBLIES CUT • COUPLED • COILED • TIED

Part Number	I.D. in.	I.D. mm.	Std. Lgth. (ft.)	Description	Max W.P. PSI	Max W.P. BAR	Weight lb./ft.	Weight KG/m
4705-0150-050AB	1-1/2	38.10	50	CPLD M x F AB Pin Lug w/5/8" Bands	230	15.86	8.00	11.90
4705-0200-050AB	2	50.80	50	CPLD M x F AB Pin Lug w/5/8" Bands	230	15.86	12.00	17.80
4705-0300-050AB	3	76.20	50	CPLD M x F AB Pin Lug w/5/8" Bands	200	13.79	22.00	32.80
4705-0150-050CE	1-1/2	38.10	50	CPLD M x F 1-1/2" AL Cam Lock (C x E)	230	15.86	8.00	11.90
4705-0200-050CE	2	50.80	50	CPLD M x F 2" AL Cam Lock (C x E)	230	15.86	12.00	17.80
4705-0300-050CE	3	76.20	50	CPLD M x F 3" AL Cam Lock (C x E)	200	13.79	22.00	32.80

Note: Assembly is rated at 150 PSI. **Working pressure is temperature dependent. See page 5 for more information.**

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POWERING GLOBAL INDUSTRY

WATER HOSE

4735 MSHA FIRE HOSE ASSEMBLIES

CONSTRUCTION: Chloroprene (CR) tube with a cover that is polyester.

TEMPERATURE: -25°F (-32°C) to +185°F (+85°C)

BRANDING: Jason logo 300 PSI Test, MSHA #18-FHA08001.

APPLICATION: Underground mining fire hose.

FEATURES:

- Meets MSHA rating 18-FHA08001, therefore resistant to fire.
- Rolls flat for easy storage.
- Couplings are anodized aluminum M x F expansion ring with rocker lugs.
- 100% polyester jacket, which is free from defects, twists, knots and irregularities.

Part Number	I.D. in.	I.D. mm.	Coupling Description	Rein. Plies	Serv. Press. PSI	Serv. Press. BAR	Test Press. PSI	Test Press. BAR	Vacuum @68°F	Weight lb./ft.	Weight KG/m	Standard Lengths (ft.)
4735-0150-050ERNPS	1-1/2	38.10	NPS EXP Ring	n/a	300	20.68	900	62.04	n/a	0.23	0.34	50
4735-0150-050ERNST	1-1/2	38.10	NST EXP Ring	n/a	300	20.68	900	62.04	n/a	0.23	0.34	50
4735-0150-100ERNPS	1-1/2	38.10	NPS EXP Ring	n/a	300	20.68	900	62.04	n/a	0.23	0.34	100
4735-0150-100ERNST	1-1/2	38.10	NST EXP Ring	n/a	300	20.68	900	62.04	n/a	0.23	0.34	100

Working pressure is temperature dependent. See page 5 for more information.

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SKIRTBOARD RUBBER

POWERING GLOBAL INDUSTRY

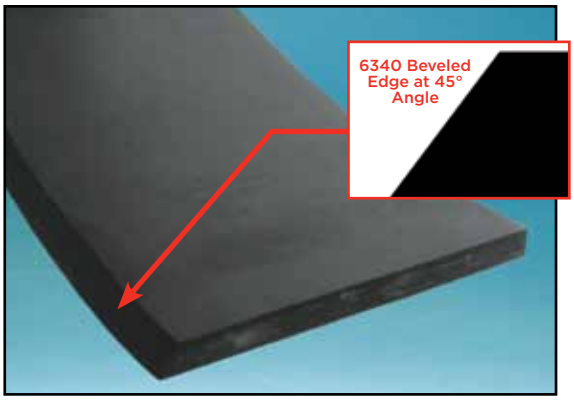
FOR USE ON CONVEYORS, SNOW PLOW BLADES & CHUTE LINING

Hoses are constantly being upgraded. Jason Industrial reserves the right to make changes in construction without prior notice.

POWERING GLOBAL INDUSTRY

SKIRTBOARD RUBBER

6340 SBR SKIRTBOARD RUBBER - BEVELED EDGE



- Abrasion and Weather Resistant
- 55-60 Durometer
- 1,000 PSI Tensile Strength, 300% Elongation
- Cut Widths (Not Extruded)
- Use with conveyor belt for fine material
- Temperature Range: -20°F (-29°C) to +180°F (+83°C)

PART NUMBER	GAUGE (in.)	GAUGE (mm.)	WIDTH (in.)	WIDTH (mm.)	ROLL LENGTH (ft.)	ROLL LENGTH (M)	WEIGHT 50 FT. LL (lbs.)
6340-1204	3/8	9.53	4	101.60	50	15.24	46
6340-1205	3/8	9.53	5	127.00	50	15.24	58
6340-1206	3/8	9.53	6	152.40	50	15.24	73
6340-1208	3/8	9.53	8	203.20	50	15.24	82
6340-1604	1/2	12.70	4	101.60	50	15.24	60
6340-1605	1/2	12.70	5	127.00	50	15.24	75
6340-1606	1/2	12.70	6	152.40	50	15.24	97
6340-1608	1/2	12.70	8	203.20	50	15.24	109
6340-1610	1/2	12.70	10	254.00	50	15.24	150

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SKIRTBOARD RUBBER

POWERING GLOBAL INDUSTRY

6341 SBR SKIRTBOARD RUBBER - SQUARE EDGE

- Abrasion and Weather Resistant
- 55-60 Durometer
- 1,000 PSI Tensile Strength, 300% Elongation
- Cut Widths (Not Extruded)
- Use with conveyor belt or as chute lining
- Temperature Range: -20°F (-29°C) to +180°F (+83°C)

PART NUMBER	GAUGE (in.)	GAUGE (mm.)	WIDTH (in.)	WIDTH (mm.)	ROLL LENGTH (ft.)	ROLL LENGTH (M)	WEIGHT 50 FT. LL (lbs.)
6341-0802	1/4	6.35	2	50.80	50	15.24	16
6341-0803	1/4	6.35	3	76.20	50	15.24	24
6341-0804	1/4	6.35	4	101.60	50	15.24	31
6341-0805	1/4	6.35	5	127.00	50	15.24	38
6341-0806	1/4	6.35	6	152.40	50	15.24	47
6341-0807	1/4	6.35	7	177.80	50	15.24	56
6341-0808	1/4	6.35	8	203.20	50	15.24	65
6341-0810	1/4	6.35	10	254.00	50	15.24	78
6341-0812	1/4	6.35	12	304.80	50	15.24	97
6341-0848	1/4	6.35	48	1219.20	50	15.24	390
6341-1202	3/8	9.53	2	50.80	50	15.24	21
6341-1203	3/8	9.53	3	76.20	50	15.24	32
6341-1204	3/8	9.53	4	101.60	50	15.24	42
6341-1205	3/8	9.53	5	127.00	50	15.24	53
6341-1206	3/8	9.53	6	152.40	50	15.24	63
6341-1207	3/8	9.53	7	177.80	50	15.24	76
6341-1208	3/8	9.53	8	203.20	50	15.24	90
6341-1210	3/8	9.53	10	254.00	50	15.24	108
6341-1212	3/8	9.53	12	304.80	50	15.24	128
6341-1248	3/8	9.53	48	1219.20	50	15.24	520
6341-1602	1/2	12.70	2	50.80	50	15.24	30
6341-1603	1/2	12.70	3	76.20	50	15.24	45
6341-1604	1/2	12.70	4	101.60	50	15.24	60
6341-1605	1/2	12.70	5	127.00	50	15.24	74
6341-1606	1/2	12.70	6	152.40	50	15.24	89
6341-1607	1/2	12.70	7	177.80	50	15.24	104
6341-1608	1/2	12.70	8	203.20	50	15.24	121
6341-1610	1/2	12.70	10	254.00	50	15.24	150
6341-1612	1/2	12.70	12	304.80	50	15.24	181
6341-1648	1/2	12.70	48	1219.20	50	15.24	726
6341-2402	3/4	19.05	2	50.80	50	15.24	60
6341-2403	3/4	19.05	3	76.20	50	15.24	68
6341-2404	3/4	19.05	4	101.60	50	15.24	91
6341-2405	3/4	19.05	5	127.00	50	15.24	112
6341-2406	3/4	19.05	6	152.40	50	15.24	133
6341-2407	3/4	19.05	7	177.80	50	15.24	157
6341-2408	3/4	19.05	8	203.20	50	15.24	182
6341-2410	3/4	19.05	10	254.00	50	15.24	226
6341-2412	3/4	19.05	12	304.80	50	15.24	270
6341-2448	3/4	19.05	48	1219.20	50	15.24	1120
6341-3202	1	25.40	2	50.80	50	15.24	77
6341-3203	1	25.40	3	76.20	50	15.24	95
6341-3204	1	25.40	4	101.60	50	15.24	116
6341-3205	1	25.40	5	127.00	50	15.24	144
6341-3206	1	25.40	6	152.40	50	15.24	173
6341-3207	1	25.40	7	177.80	50	15.24	199
6341-3208	1	25.40	8	203.20	50	15.24	228
6341-3210	1	25.40	10	254.00	50	15.24	289
6341-3212	1	25.40	12	304.80	50	15.24	345
6341-3248	1	25.40	48	1219.20	50	15.24	1420

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POWERING GLOBAL INDUSTRY

COUPLINGS & ACCESSORIES

The value of a hose is enhanced by the proper selection of couplings.

Couplings attach to the end of the hose to facilitate connection to a pressure source. In order to make the transition successful, the coupling termination must provide a leak-proof seal and the hose/coupling interface must be properly matched.

SAFETY WARNING - Because the hose/coupling interface is critical to the hose assembly performance, always follow the specific instructions of the hose and coupling manufacturers regarding the match of hose/fittings and assembly procedures. Trained personnel using proper tools and procedures should make the hose assemblies. Failure to follow the manufacturers' instructions or failure to use trained personnel might be dangerous and could result in damage to property and serious bodily injury.

Jason offers a wide range of couplings & accessories that complement the hose line and the markets they serve.

COUPLINGS INCLUDE:

- Crimp Cam and Groove Couplings
- Crimp Combination Nipples
  - Sleeves
  - Ferrules
- Standard Cam and Groove Couplings
  - Anti-Leak C & G Couplings
  - Reducing C & G Couplings
  - Tank Truck API Adapters, Caps & Couplers
- Universal Couplings
- Ground Joint Couplings
- Sandblast Hose Couplings
- Locking Lever Pump Couplings
- Combination Hose Nipples

ACCESSORIES INCLUDE:

- Clamps - Interlocking & Double Bolt
- Brass Ball Valves, Mini Ball Valves
- Foot Valves
- Nozzles
- Wrenches
- Strainers for Water Suction Hose
- Strainers for Oil & Gas Drilling
- Sight Glasses
- Grip Plugs & Caps
- Pump Plate Strainers
- Quick Connect Air Couplers

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COUPLINGS & ACCESSORIES

POWERING GLOBAL INDUSTRY

JASON CRIMP METHODOLOGY

This brochure will introduce you to the "New Jason Crimp Methodology" for industrial hose and couplings. We believe that crimping offers a far superior assembly method for the following reasons:

- There is more retention along the shank or barb. More retention means a significant decrease in possible leaks.
- Provides a much higher safety factor than what bands can provide.
- No sharp edges. Banded assemblies can have four or more sharp edges that create the possibility that the assembler could be hurt.
- A crimped ferrule or sleeve has smooth edges which make it safe to handle and a better look to the overall assembly.
- The shank lengths of our cam and groove fittings are a match with the sleeves and ferrules. This creates better retention than banded or swaged assemblies and helps to avoid damage to the tube and/or cover.

Please do not mix Jason Industrial couplings with other products. We cannot recommend working pressures or crimp specifications for non-Jason parts. Please follow the safety recommendations as published in the NAHAD Industrial Hose Assembly Specification Guidelines.

We recommend that you refer to the NAHAD Industrial Hose Assembly Specification Guidelines for industry-accepted practices for assembling hoses and couplings, which include hydrostatic testing. Please note that Jason couplings, ferrules and sleeves are designed to work together.

Please do not mix and match with other products.

RECOMMENDED WORKING PRESSURES

Size	Combination Nipples		Cam & Groove	
	Sleeve	Ferrule	Sleeve	Ferrule
1-1/2"	300	350	250	250
2"	250	300	250	250
3"	200	300	125	150
4"	175	300	110	150

Working pressures are given in pounds per square inch (PSI) at 70°F ambient temperature.

PLEASE NOTE: The working pressure of an assembly is equal to the component with the least working pressure.

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POWERING GLOBAL INDUSTRY

CRIMP COUPLINGS, FERRULES & SLEEVES

CAM & GROOVE CRIMP COUPLINGS

All Cam & Groove Fittings are Aluminum

PART C — FEMALE COUPLER x HOSE SHANK

Female end fits male adapter or Dust Plug. Shank fits into hose ID. Bowl has recess for washer replacement.

Part Number	Size (in.)	Shank O.D. (in.)	Shank O.D. (mm)	Serrations	Stem OD (in.)	Stem OD (mm)
C150AC	1-1/2	1.535	39.0	10	1.54	39.0
C200AC	2	2.027	51.5	12	2.03	51.5
C250AC	2-1/2	2.527	64.2	15	2.53	64.2
C300AC	3	3.031	77.0	14	3.03	77.0
C400AC	4	4.035	102.5	15	4.04	102.5
C600AC	6	6.047	153.6	22	6.05	153.6

PART E — MALE ADAPTER x HOSE SHANK

Male end fits female coupler or Dust Cap. Shank fits into hose ID.

Part Number	Size (in.)	Shank O.D. (in.)	Shank O.D. (mm)	Serrations	Stem OD (in.)	Stem OD (mm)
E150AC	1-1/2	1.535	39.0	10	1.54	39.0
E200AC	2	2.027	51.5	12	2.03	51.5
E250AC	2-1/2	2.527	64.2	15	2.53	64.2
E300AC	3	3.031	77.0	14	3.03	77.0
E400AC	4	4.035	102.5	15	4.04	102.5
E600AC	6	6.047	153.6	22	6.05	153.6

COMBINATION HOSE NIPPLES

MALE x HOSE SHANK

Combination Nipples are used in a variety of fluid applications. End (male) threads are NPT
Will mate with Foot Valves, Strainers, Cam & Groove Part A & D, etc. and are the same size as the shank.

Part Number	Size (in.)	Stem OD (in.)	Stem OD (mm)
CN150PC	1-1/2	1.54	39.0
CN200PC	2	2.03	51.5
CN250PC	2-1/2	2.53	64.2
CN300PC	3	3.03	77.0
CN400PC	4	4.04	102.5
CN600PC	6	6.05	153.6

All sizes may not be stocked in all locations. Check with customer service for availability.

CRIMP COUPLINGS, FERRULES & SLEEVES

POWERING GLOBAL INDUSTRY

Jason Ferrules and Sleeves are designed to be used with Jason Combination Hose Nipples and the Part "C" and "E" Cam & Groove fittings (crimp style only). For crimp O.D.'s, please refer to pages 100 to 105.

Working pressures are determined by the type of hose and coupling used in the application.

DO NOT mix with other products.

*Please Note - for any hose with a natural rubber tube, we recommend using a ferrule only. During the crimping process, couplings have a tendency to be squeezed out of proper crimp position if a crimp sleeve is being used.

CRIMP FERRULES (Plated Steel)

Warning - Do not use in steam applications

NOMENCLATURE

Ferrule Part Number

212F20P

212 = 2-12/16" Ferrule I.D.

F = Ferrule

20 = 2" Hose I.D.

P = Plated Steel

Hose Size	Part No.	Ferrule I.D.	Hose Size	Part No.	Ferrule I.D.	Hose Size	Part No.	Ferrule I.D.
1-1/2"	**115F15P**	1-15/16"	2"	**214F20P**	2-14/16"	3"	**315F30P**	3-15/16"
1-1/2"	**200F15P**	2"	2"	**215F20P**	2-15/16"	4"	**409F40P**	4-9/16"
1-1/2"	**201F15P**	2-1/16"	2-1/2"	**302F25P**	3-2/16"	4"	**410F40P**	4-10/16"
1-1/2"	**202F15P**	2-2/16"	2-1/2"	**303F25P**	3-3/16"	4"	**411F40P**	4-11/16"
1-1/2"	**203F15P**	2-3/16"	2-1/2"	**304F25P**	3-4/16"	4"	**412F40P**	4-12/16"
1-1/2"	**204F15P**	2-4/16"	2-1/2"	**305F25P**	3-5/16"	4"	**413F40P**	4-13/16"
1-1/2"	**205F15P**	2-5/16"	2-1/2"	**307F25P**	3-7/16"	4"	**414F40P**	4-14/16"
1-1/2"	**206F15P**	2-6/16"	3"	**308F30P**	3-8/16"	4"	**415F40P**	4-15/16"
2"	**208F20P**	2-8/16"	3"	**309F30P**	3-9/16"	4"	**500F40P**	5"
2"	**209F20P**	2-9/16"	3"	**310F30P**	3-10/16"	4"	**501F40P**	5-1/16"
2"	**210F20P**	2-10/16"	3"	**311F30P**	3-11/16"	6"	**610F60P**	6-10/16"
2"	**211F20P**	2-11/16"	3"	**312F30P**	3-12/16"	6"	**614F60P**	6-14/16"
2"	**212F20P**	2-12/16"	3"	**313F30P**	3-13/16"	6"	**702F60P**	7-2/16"
2"	**213F20P**	2-13/16"	3"	**314F30P**	3-14/16"	6"	**706F60P**	7-6/16"

See Page 98 for Ferrule/Sleeve Wall Thickness

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POWERING GLOBAL INDUSTRY

CRIMP COUPLINGS, FERRULES & SLEEVES

CRIMP SLEEVES (Plated Steel)

Warning - Do not use in steam applications

NOMENCLATURE

Ferrule Part Number

305S25P

305 = 3-5/16" Sleeve I.D.

S = Sleeve

25 = 2-1/2" Hose I.D.

P = Plated Steel

Hose Size	Part No.	Ferrule I.D.
1-1/2"	**115S15P**	1-15/16"
1-1/2"	**200S15P**	2"
1-1/2"	**201S15P**	2-1/16"
1-1/2"	**202S15P**	2-2/16"
1-1/2"	**203S15P**	2-3/16"
1-1/2"	**204S15P**	2-4/16"
1-1/2"	**205S15P**	2-5/16"
1-1/2"	**206S15P**	2-6/16"
2"	**206S20P**	2-6/16"
2"	**208S20P**	2-8/16"
2"	**209S20P**	2-9/16"
2"	**210S20P**	2-10/16"
2"	**211S20P**	2-11/16"
2"	**212S20P**	2-12/16"
2"	**213S20P**	2-13/16"
2"	**214S20P**	2-14/16"
2"	**215S20P**	2-15/16"
2-1/2"	**300S25P**	3"
2-1/2"	**302S25P**	3-2/16"
2-1/2"	**303S25P**	3-3/16"
2-1/2"	**304S25P**	3-4/16"
2-1/2"	**305S25P**	3-5/16"
2-1/2"	**307S25P**	3-7/16"
2-1/2"	**308S25P**	3-8/16"
3"	**308S30P**	3-8/16"
3"	**309S30P**	3-9/16"
3"	**310S30P**	3-10/16"
3"	**311S30P**	3-11/16"
3"	**312S30P**	3-12/16"
3"	**313S30P**	3-13/16"
3"	**314S30P**	3-14/16"
3"	**315S30P**	3-15/16"
3"	**400S30P**	4"
4"	**409S40P**	4-9/16"
4"	**410S40P**	4-10/16"
4"	**411S40P**	4-11/16"
4"	**412S40P**	4-12/16"
4"	**413S40P**	4-13/16"
4"	**414S40P**	4-14/16"
4"	**415S40P**	4-15/16"
4"	**500S40P**	5"
4"	**610S40P**	6-10/16"
6"	**610S60P**	6-10/16"
6"	**614S60P**	6-14/16"
6"	**702S60P**	7-2/16"
6"	**706S60P**	7-6/16"
8"	**807S80P**	8-7/16"
8"	**808S80P**	8-8/16"

FERRULE OR SLEEVE WALL THICKNESS

Hose ID	Sleeve or Ferrule Wall (in.)	(mm)
1-1/2"	0.06	1.52
2"	0.06	1.52
2-1/2"	0.06	1.52
3"	0.09	2.29
4"	0.09	2.29
6"	0.12	3.05

All sizes may not be stocked in all locations. Check with customer service for availability.

CRIMPING SPECIFICATIONS

POWERING GLOBAL INDUSTRY

ASSEMBLY PROCEDURE RECOMMENDATIONS

The following six pages will list the crimp OD's for 1-1/2" to 6" ID hoses. These crimp OD's are guides only. We recommend that you accurately measure the dimensions of each hose, test each assembly and document everything.

It is difficult to establish ironclad standards because of the many variables in hose construction. Hardwall versus softwall construction, corrugated versus smooth cover and differing compounds all play a part in the difficulty of establishing crimp-specific OD's.

Once again, do not mix other manufacturer's products (hose, ferrule, sleeve or coupling) with Jason Industrial products.

Before doing any assembly work, please do the following steps:

1. Make sure each hose end is cut square. Clean any debris from the tube interior.
2. Before the coupling is installed, check for any burrs or sharp edges. This will make the coupling insertion easier and prevent inner tube damage.
3. **This next step is vital!** Measure the Hose O.D. in at least three different locations on each end. This will ensure that the proper sized ferrule/sleeve is used.
    a. Never try to enlarge the tube to make it easier to insert the coupling - this could result in tearing the tube. Lubrication should only be used if necessary.
    b. There is no need to buff the cover of the hose.
4. The fitting shank should be inserted into the hose to where the last serration is covered. Inserting past this point does not help hose/coupling retention. Do not insert hose against the stop on cam & groove parts C & E. The hose will extrude during the crimping process and will fill in that space.
5. Check the charts on the next six pages for the hose ID and find the correct crimp OD.
6. If a static charge needs to be maintained, then bend the helical wires inside the hose tube. Slide the sleeve or ferrule onto the hose. Insert the shank and complete the assembly.
7. In petroleum tank truck applications, it is recommended that the ends be sealed. After crimping, the ends will be exposed and will require a chloroprene cement to accomplish the seal.
8. Jason Industrial recommends that ferrules **ONLY** be used when crimping a hose with a natural rubber tube. These hoses have a tendency to squeeze out of the fitting during the crimping process.
9. Each assembly should be hydrostatically tested to two times the working pressure, unless otherwise specified by the customer. Otherwise, please refer to the NAHAD Assembly Guidelines industry-accepted guidelines for hose assembly practices.
10. Non-sparking materials like brass or aluminum should be used if the assembly is conveying flammable liquids.

Please do not mix Jason Industrial couplings with other products. We cannot recommend working pressures or crimp specifications for non-Jason parts. Please follow the safety recommendations as published in the NAHAD Industrial Hose Assembly Specification Guidelines.

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We disclaim any liability for use of our products in applications other than which they are designed.

POWERING GLOBAL INDUSTRY

CRIMPING SPECIFICATIONS

CRIMPING SPECIFICATIONS - 1-1/2"

± Recommended crimp % reduction is 20% for all sizes. This is a guide only. Crimp reductions can range from 18-25% and will vary from crimper to crimper. Please consult the NAHAD Industrial Hose Assembly Guidelines. The information that is provided here is based on a 72° F (+22° C) environment.

Hose I.D. (in.)	Hose I.D. (mm)	Ferrule/ Sleeve Part No.	Hose O. D. (in.)	Hose O. D. (mm)	Wall Thickness (in.)	Wall Thickness (mm)	Crimp O. D. (in.)	Crimp O. D. (mm)
1-1/2	38.10	**115F15P**	1.796	45.62	0.148	3.75	1.86	47.23
		115S15P	1.812	46.02	0.156	3.96	1.87	47.52
			1.828	46.43	0.164	4.17	1.88	47.83
			1.844	46.84	0.172	4.37	1.90	48.16
			1.860	47.24	0.180	4.57	1.91	48.41
			1.876	47.65	0.188	4.78	1.92	48.77
			1.890	48.01	0.195	4.95	1.93	49.02
			1.906	48.41	0.203	5.16	1.94	49.23
1-1/2	38.10	**200F15P**	1.922	48.82	0.211	5.36	1.96	49.78
		200S15P	1.938	49.23	0.219	5.56	1.97	50.01
			1.954	49.63	0.227	5.77	1.98	50.39
			1.968	49.99	0.234	5.94	2.00	50.80
1-1/2	38.10	**201F15P**	1.984	50.39	0.242	6.15	2.01	51.05
		201S15P	2.000	50.80	0.250	6.35	2.02	51.28
			2.016	51.21	0.258	6.55	2.03	51.59
			2.032	51.61	0.266	6.76	2.05	52.07
1-1/2	38.10	**202F15P**	2.046	51.97	0.273	6.93	2.06	52.22
		202S15P	2.062	52.37	0.281	7.14	2.07	52.53
			2.078	52.78	0.289	7.34	2.08	52.86
			2.094	53.19	0.297	7.54	2.09	53.16
1-1/2	38.10	**203F15P**	2.110	53.59	0.305	7.75	2.11	53.47
		203S15P	2.126	54.00	0.313	7.95	2.12	53.80
			2.140	54.36	0.320	8.13	2.13	54.10
			2.156	54.76	0.328	8.33	2.14	54.41
1-1/2	38.10	**204F15P**	2.172	55.17	0.336	8.53	2.16	54.74
		204S15P	2.188	55.58	0.344	8.74	2.17	55.04
			2.204	55.98	0.352	8.94	2.18	55.35
			2.218	56.34	0.359	9.12	2.19	55.68
1-1/2	38.10	**205F15P**	2.234	56.74	0.367	9.32	2.21	56.13
		205S15P	2.250	57.15	0.375	9.53	2.22	56.31
			2.266	57.56	0.383	9.73	2.23	56.62
			2.282	57.96	0.391	9.93	2.24	56.92
1-1/2	38.10	**206F15P**	2.296	58.32	0.398	10.11	2.25	57.24
		206S15P	2.312	58.72	0.406	10.31	2.27	57.55
			2.328	59.13	0.414	10.52	2.28	57.87
			2.344	59.54	0.422	10.72	2.29	58.18

All sizes may not be stocked in all locations. Check with customer service for availability.

CRIMPING SPECIFICATIONS

POWERING GLOBAL INDUSTRY

CRIMPING SPECIFICATIONS - 2″

± Recommended crimp % reduction is 20% for all sizes. This is a guide only. Crimp reductions can range from 18-25% and will vary from crimper to crimper. Please consult the NAHAD Industrial Hose Assembly Guidelines. The information that is provided here is based on a 72° F (+22° C) environment.

Hose I.D. (in.)	Hose I.D. (mm)	Ferrule/ Sleeve Part No.	Hose O. D. (in.)	Hose O. D. (mm)	Wall Thickness (in.)	Wall Thickness (mm)	Crimp O. D. (in.)	Crimp O. D. (mm)
2	50.80	208F20P	2.360	59.94	0.180	4.57	2.41	61.16
		208S20P	2.376	60.35	0.188	4.77	2.42	61.47
			2.390	60.71	0.195	4.95	2.43	61.79
			2.406	61.11	0.203	5.16	2.44	62.10
			2.422	61.52	0.211	5.36	2.46	62.41
			2.438	61.93	0.219	5.56	2.47	62.73
			2.454	62.33	0.227	5.77	2.48	63.04
			2.468	62.69	0.234	5.94	2.49	63.36
2	50.80	209F20P	2.484	63.09	0.242	6.15	2.51	63.75
		209S20P	2.500	63.50	0.250	6.35	2.52	63.98
			2.516	63.91	0.258	6.55	2.53	64.30
			2.532	64.31	0.266	6.76	2.55	64.92
2	50.80	210F20P	2.546	64.67	0.273	6.93	2.56	65.02
		210S20P	2.562	65.07	0.281	7.14	2.57	64.24
			2.578	65.48	0.289	7.34	2.58	65.55
			2.594	65.89	0.297	7.54	2.59	65.86
2	50.80	211F20P	2.610	66.29	0.305	7.74	2.61	66.29
		211S20P	2.626	66.70	0.313	7.95	2.62	66.49
			2.640	67.06	0.320	8.13	2.63	66.80
			2.656	67.46	0.328	8.33	2.64	67.12
2	50.80	212F20P	2.672	67.87	0.336	8.53	2.66	67.56
		212S20P	2.688	68.28	0.344	8.74	2.67	67.74
			2.704	68.68	0.352	8.94	2.68	68.06
			2.718	69.04	0.359	9.12	2.69	68.37
2	50.80	213F20P	2.734	69.44	0.367	9.32	2.71	68.83
		213S20P	2.750	69.85	0.375	9.52	2.72	69.00
			2.766	70.26	0.383	9.73	2.73	69.31
			2.782	70.66	0.391	9.93	2.74	69.63
2	50.80	214F20P	2.796	71.02	0.398	10.11	2.75	69.94
		214S20P	2.812	71.42	0.406	10.31	2.77	70.36
			2.828	71.83	0.414	10.51	2.78	70.57
			2.844	72.24	0.422	10.72	2.79	70.88
2	50.80	215F20P	2.860	72.64	0.430	10.92	2.80	71.19
		215S20P	2.876	73.05	0.438	11.12	2.82	71.51
			2.890	73.41	0.445	11.30	2.83	71.82
			2.906	73.81	0.453	11.51	2.84	72.13

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We disclaim any liability for use of our products in applications other than which they are designed.

POWERING GLOBAL INDUSTRY

CRIMPING SPECIFICATIONS

CRIMPING SPECIFICATIONS - 2-1/2"

± Recommended crimp % reduction is 20% for all sizes. This is a guide only. Crimp reductions can range from 18-25% and will vary from crimper to crimper. Please consult the NAHAD Industrial Hose Assembly Guidelines. The information that is provided here is based on a 72° F (+22° C) environment.

Hose I.D.		Ferrule/ Sleeve	Hose O. D.		Wall Thickness		Crimp O. D.	
(in.)	(mm)	Part No.	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)
2-1/2	63.50	**302F25P**	2.984	75.79	0.242	6.15	3.01	76.45
		302S25P	3.000	76.20	0.250	6.35	3.02	76.71
			3.016	76.61	0.258	6.55	3.03	76.96
			3.032	77.01	0.266	6.76	3.05	77.47
			3.048	77.42	0.274	6.96	3.06	77.72
			3.062	77.77	0.281	7.14	3.07	77.98
			3.078	78.18	0.289	7.34	3.08	78.23
			3.094	78.59	0.297	7.54	3.09	78.49
2-1/2	63.50	**303F25P**	3.110	78.99	0.305	7.75	3.11	78.99
		303S25P	3.126	79.40	0.313	7.95	3.12	79.25
			3.140	79.76	0.320	8.13	3.13	79.50
			3.156	80.16	0.328	8.33	3.14	79.76
2-1/2	63.50	**304F25P**	3.172	80.57	0.336	8.53	3.16	80.26
		304S25P	3.188	80.98	0.344	8.74	3.17	80.52
			3.204	81.38	0.352	8.94	3.18	80.77
			3.220	81.79	0.360	9.14	3.19	81.03
2-1/2	63.50	**305F25P**	3.234	82.14	0.367	9.32	3.21	81.53
		305S25P	3.250	82.55	0.375	9.53	3.22	81.79
			3.266	82.96	0.383	9.73	3.23	82.04
			3.282	83.36	0.391	9.93	3.24	82.30
2-1/2	63.50	**307F25P**	3.300	83.82	0.400	10.16	3.26	82.80
		307S25P	3.312	84.12	0.406	10.31	3.27	83.06
			3.328	84.53	0.414	10.52	3.28	83.31
			3.344	84.94	0.422	10.72	3.29	83.57
			3.360	85.34	0.430	10.92	3.31	84.07
			3.376	85.75	0.438	11.13	3.32	84.33
			3.390	86.11	0.445	11.30	3.33	84.58
			3.406	86.51	0.453	11.51	3.34	84.84

All sizes may not be stocked in all locations. Check with customer service for availability.

CRIMPING SPECIFICATIONS

POWERING GLOBAL INDUSTRY

CRIMPING SPECIFICATIONS - 3"

± Recommended crimp % reduction is 20% for all sizes. This is a guide only. Crimp reductions can range from 18-25% and will vary from crimper to crimper. Please consult the NAHAD Industrial Hose Assembly Guidelines. The information that is provided here is based on a 72° F (+22° C) environment.

Hose I.D. (in.)	Hose I.D. (mm)	Ferrule/ Sleeve Part No.	Hose O. D. (in.)	Hose O. D. (mm)	Wall Thickness (in.)	Wall Thickness (mm)	Crimp O. D. (in.)	Crimp O. D. (mm)
3"	76.20	**308F30P**	3.360	85.34	0.180	4.57	3.47	88.14
		308S30P	3.376	85.75	0.188	4.78	3.48	88.39
			3.392	86.16	0.196	4.98	3.49	88.65
			3.406	86.51	0.203	5.16	3.50	88.90
3"	76.20	**309F30P**	3.422	86.92	0.211	5.36	3.52	89.41
		309S30P	3.438	87.33	0.219	5.56	3.53	89.66
			3.454	87.73	0.227	5.77	3.54	89.92
			3.468	88.09	0.234	5.94	3.55	90.17
			3.484	88.49	0.242	6.15	3.57	90.68
			3.500	88.90	0.250	6.35	3.58	90.93
			3.516	89.31	0.258	6.55	3.59	91.19
			3.532	89.71	0.266	6.76	3.61	91.69
3"	76.20	**310F30P**	3.546	90.07	0.273	6.93	3.62	91.95
		310S30P	3.562	90.47	0.281	7.14	3.63	92.20
			3.578	90.88	0.289	7.34	3.64	92.46
			3.594	91.29	0.297	7.54	3.65	92.71
3"	76.20	**311F30P**	3.610	91.69	0.305	7.75	3.67	93.22
		311S30P	3.626	92.10	0.313	7.95	3.68	93.47
			3.640	92.46	0.320	8.13	3.69	93.73
			3.656	92.86	0.328	8.33	3.70	93.98
3"	76.20	**312F30P**	3.672	93.27	0.336	8.53	3.72	94.49
		312S30P	3.688	93.68	0.344	8.74	3.73	94.74
			3.704	94.08	0.352	8.94	3.74	95.00
			3.718	94.44	0.359	9.12	3.75	95.25
3"	76.20	**313F30P**	3.734	94.84	0.367	9.32	3.77	95.76
		313S30P	3.750	95.25	0.375	9.53	3.78	96.01
			3.766	95.66	0.383	9.73	3.79	96.27
			3.782	96.06	0.391	9.93	3.80	96.52
3"	76.20	**314F30P**	3.796	96.42	0.398	10.11	3.81	96.77
		314S30P	3.812	96.82	0.406	10.31	3.83	97.28
			3.828	97.23	0.414	10.52	3.84	97.54
			3.844	97.64	0.422	10.72	3.85	97.79
3"	76.20	**315F30P**	3.860	98.04	0.430	10.92	3.86	98.04
		315S30P	3.876	98.45	0.438	11.13	3.88	98.55
			3.890	98.81	0.445	11.30	3.89	98.81
			3.906	99.21	0.453	11.51	3.90	99.06
3"	76.20	**400F30P**	3.922	99.62	0.461	11.71	3.91	99.31
		400S30P	3.938	100.03	0.469	11.91	3.93	99.82
			3.954	100.43	0.477	12.12	3.94	100.08
			3.968	100.79	0.484	12.29	3.95	100.33

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POWERING GLOBAL INDUSTRY

CRIMPING SPECIFICATIONS

CRIMPING SPECIFICATIONS - 4"

± Recommended crimp % reduction is 20% for all sizes. This is a guide only. Crimp reductions can range from 18-25% and will vary from crimper to crimper. Please consult the NAHAD Industrial Hose Assembly Guidelines. The information that is provided here is based on a 72° F (+22° C) environment.

Hose I.D. (in.)	Hose I.D. (mm)	Ferrule/ Sleeve Part No.	Hose O. D. (in.)	Hose O. D. (mm)	Wall Thickness (in.)	Wall Thickness (mm)	Crimp O. D. (in.)	Crimp O. D. (mm)
4	101.80	**409F40P**	4.422	112.32	0.211	5.36	4.52	114.81
		409S40P	4.438	112.73	0.219	5.56	4.53	115.06
			4.454	113.13	0.227	5.77	4.54	115.32
			4.468	113.49	0.234	5.94	4.55	115.57
			4.484	113.89	0.242	6.15	4.57	116.08
			4.500	114.30	0.250	6.35	4.58	116.33
			4.516	114.71	0.258	6.55	4.59	116.59
			4.532	115.11	0.266	6.76	4.61	117.09
4	101.80	**410F40P**	4.456	113.18	0.273	6.93	4.62	117.35
		410S40P	4.562	115.87	0.281	7.14	4.63	117.60
			4.578	116.28	0.289	7.34	4.64	117.86
			4.594	116.69	0.297	7.54	4.65	118.11
4	101.80	**411F40P**	4.610	117.09	0.305	7.75	4.67	118.62
		411S40P	4.626	117.50	0.313	7.95	4.68	118.87
			4.640	117.86	0.320	8.13	4.69	119.13
			4.656	118.26	0.328	8.33	4.70	119.38
4	101.80	**412F40P**	4.672	118.67	0.336	8.53	4.72	119.89
		412S40P	4.688	119.08	0.344	8.74	4.73	120.14
			4.704	119.48	0.352	8.94	4.74	120.40
			4.718	119.84	0.359	9.12	4.76	120.90
4	101.80	**413F40P**	4.734	120.24	0.367	9.32	4.77	121.16
		413S40P	4.750	120.65	0.375	9.53	4.78	121.41
			4.766	121.06	0.383	9.73	4.79	121.67
			4.782	121.46	0.391	9.93	4.80	121.92
4	101.8	**414F40P**	4.796	121.82	0.398	10.11	4.81	122.17
		414S40P	4.812	122.22	0.406	10.31	4.83	122.68
			4.828	122.63	0.414	10.52	4.84	122.94
			4.844	123.04	0.422	10.72	4.85	123.19
4	101.80	**415F40P**	4.860	123.44	0.430	10.92	4.86	123.44
		415S40P	4.876	123.85	0.438	11.13	4.88	123.95
			4.890	124.21	0.445	11.30	4.89	124.21
			4.906	124.61	0.453	11.51	4.90	124.46
4	101.80	**500F40P**	4.922	125.02	0.461	11.71	4.91	124.71
		500S40P	4.938	125.43	0.469	11.91	4.93	125.22
			4.954	125.83	0.477	12.12	4.94	125.48
			4.968	126.19	0.484	12.29	4.95	125.73

All sizes may not be stocked in all locations. Check with customer service for availability.

CRIMPING SPECIFICATIONS

POWERING GLOBAL INDUSTRY

CRIMPING SPECIFICATIONS - 6"

± Recommended crimp % reduction is 20% for all sizes. This is a guide only. Crimp reductions can range from 18-25% and will vary from crimper to crimper. Please consult the NAHAD Industrial Hose Assembly Guidelines. The information that is provided here is based on a 72° F (+22° C) environment.

Hose I.D. (in.)	Hose I.D. (mm)	Ferrule/ Sleeve Part No.	Hose O. D. (in.)	Hose O. D. (mm)	Wall Thickness (in.)	Wall Thickness (mm)	Crimp O. D. (in.)	Crimp O. D. (mm)
6	152.40	**610F60P**	6.422	163.12	0.211	5.36	6.58	167.13
		610S60P	6.438	163.53	0.219	5.56	6.59	167.39
			6.454	163.93	0.227	5.77	6.60	167.64
			6.468	164.29	0.234	5.94	6.61	167.89
			6.484	164.69	0.242	6.15	6.63	168.40
			6.500	165.10	0.250	6.35	6.64	168.66
			6.516	165.51	0.258	6.55	6.65	168.91
			6.532	165.91	0.266	6.76	6.67	169.42
			6.546	166.27	0.273	6.93	6.68	169.67
			6.562	166.67	0.281	7.14	6.69	169.93
			6.578	167.08	0.289	7.34	6.70	170.18
			6.594	167.49	0.297	7.54	6.71	170.43
6	152.40	**614F60P**	6.610	167.89	0.308	7.82	6.73	170.94
		614S60P	6.626	168.30	0.313	7.95	6.74	171.20
			6.640	168.66	0.320	8.13	6.75	171.45
			6.656	169.06	0.328	8.33	6.76	171.70
			6.672	169.47	0.336	8.53	6.78	172.21
			6.688	169.88	0.344	8.74	6.79	172.47
			6.704	170.28	0.352	8.94	6.80	172.72
			6.718	170.64	0.359	9.12	6.81	172.97
			6.734	171.04	0.367	9.32	6.83	173.48
			6.750	171.45	0.375	9.53	6.84	173.74
			6.766	171.86	0.383	9.73	6.85	173.99
			6.782	172.26	0.391	9.93	6.86	174.24
			6.796	172.62	0.398	10.11	6.87	174.50
			6.812	173.02	0.406	10.31	6.89	175.01
			6.828	173.43	0.414	10.52	6.90	175.26
			6.844	173.84	0.422	10.72	6.91	175.51
6	152.40	**702F60P**	6.860	174.24	0.430	10.92	6.92	175.77
		702S60P	6.876	174.65	0.438	11.13	6.94	176.28
			6.890	175.01	0.445	11.30	6.95	176.53
			6.906	175.41	0.453	11.51	6.96	176.78
			6.922	175.82	0.461	11.71	6.97	177.04
			6.938	176.23	0.469	11.91	6.99	177.55
			6.954	176.63	0.477	12.12	7.00	177.80
			6.970	177.04	0.485	12.32	7.01	178.05
			6.984	177.39	0.492	12.50	7.02	178.31
			7.000	177.80	0.500	12.70	7.04	178.82
			7.016	178.21	0.508	12.90	7.05	179.07
			7.032	178.61	0.516	13.11	7.06	179.32
			7.046	178.97	0.523	13.28	7.07	179.58
			7.062	179.37	0.531	13.49	7.08	179.83
			7.078	179.78	0.539	13.69	7.10	180.34
			7.094	180.19	0.547	13.89	7.11	180.59

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POWERING GLOBAL INDUSTRY

CRIMPING SPECIFICATIONS

AT-A-GLANCE FERRULE/SLEEVE SELECTION CHART FOR JASON HOSE & COUPLINGS

Hose I.D. (in.)	Hose I.D. (mm)	Ferrule Part No.	Sleeve Part No.	Min OD (in.)	Min OD (mm)	Max OD (in.)	Max OD (mm)
1 1/2	38.10	**115F15P**	**115S15P**	1.796	45.62	1.906	48.41
1 1/2	38.10	**200F16P**	**200S16P**	1.922	48.82	1.968	49.99
1 1/2	38.10	**201F15P**	**201S15P**	1.984	50.39	2.020	51.31
1 1/2	38.10	**202F15P**	**202S15P**	2.046	51.97	2.094	53.19
1 1/2	38.10	**203F15P**	**203S15P**	2.110	53.59	2.156	54.76
1 1/2	38.10	**204F15P**	**204S15P**	2.172	55.17	2.218	56.34
1 1/2	38.10	**205F15P**	**205S15P**	2.224	56.49	2.282	57.96
1 1/2	38.10	**206F15P**	**206S15P**	2.296	58.32	2.344	59.54
2	50.80	**208F20p**	**208S20P**	2.360	59.94	2.468	62.69
2	50.80	**209F20P**	**209S20P**	2.484	63.09	2.532	64.31
2	50.80	**210F20P**	**210S20P**	2.546	64.67	2.594	65.89
2	50.80	**211F20P**	**211S20P**	2.610	66.29	2.656	67.46
2	50.80	**212F20P**	**212S20P**	2.672	67.87	2.718	69.04
2	50.80	**213F20P**	**213S20P**	2.734	69.44	2.782	70.66
2	50.80	**214F20P**	**214S20P**	2.796	71.02	2.844	72.24
2	50.80	**215F20P**	**215S20P**	2.860	72.64	2.906	73.81
2 1/2	63.50	**302F25P**	**302S25P**	2.984	75.79	3.094	78.59
2 1/2	63.50	**303F25P**	**303S25P**	3.110	78.99	3.156	80.16
2 1/2	63.50	**304F25P**	**304S25P**	3.172	80.57	3.220	81.79
2 1/2	63.50	**305F25P**	**305S25P**	3.234	82.14	3.282	83.36
2 1/2	63.50	**307F25P**	**307S25P**	3.300	83.82	3.406	86.51
3	76.20	**308F30P**	**308S30P**	3.360	85.34	3.406	86.51
3	76.20	**309F30P**	**309S30P**	3.422	86.92	3.532	89.71
3	76.20	**310F30P**	**310S30P**	3.546	90.07	3.594	91.29
3	76.20	**311F30P**	**311S30P**	3.610	91.69	3.656	92.86
3	76.20	**312F30P**	**312S30P**	3.672	93.27	3.718	94.44
3	76.20	**313F30P**	**313S30P**	3.734	94.84	3.782	96.06
3	76.20	**314F30P**	**314S30P**	3.796	96.42	3.844	97.64
3	76.20	**315F30P**	**315S30P**	3.860	98.04	3.906	99.21
3	76.20	**400F30P**	**400S30P**	3.922	99.62	3.968	100.79
4	101.80	**409F40P**	**409S40P**	4.422	112.32	4.532	115.11
4	101.80	**410F40P**	**410S40P**	4.546	115.47	4.594	116.69
4	101.80	**411F40P**	**411S40P**	4.610	117.09	4.656	118.26
4	101.80	**412F40P**	**412S40P**	4.672	118.67	4.718	119.84
4	101.80	**413F40P**	**413S40P**	4.734	120.24	4.782	121.46
4	101.80	**414F40P**	**414S40P**	4.796	121.82	4.844	123.04
4	101.80	**415F40P**	**415S40P**	4.860	123.44	4.906	124.61
4	101.80	**500F40P**	**500S40P**	4.922	125.02	4.968	126.19
6	152.40	**610F60P**	**610S60P**	6.422	163.12	6.594	167.49
6	152.40	**614F60P**	**614S60P**	6.610	167.89	6.844	173.84
6	152.40	**702F60P**	**702S60P**	6.860	174.24	7.094	180.19
6	152.40	**706F60P**	**706S60P**	7.110	180.59	7.344	186.54

All sizes may not be stocked in all locations. Check with customer service for availability.

CAM & GROOVE COUPLINGS

POWERING GLOBAL INDUSTRY

CAM & GROOVE COUPLING SPECIFICATIONS

Markets Served:

Air ● Chemical ● Food ● Material Handling ● Mining ● Petroleum (including Fracking) ● Steam ● Water

Working Pressures (maximum PSI) for Cam and Groove Couplers and Adapters

Size	Aluminum	Stainless Steel	Brass	Polypropylene
1/2		150		125
3/4	250	250	250	125
1	250	250	250	125
1-1/4	250	250	250	100
1-1/2	250	250	250	100
2	250	250	250	100
2-1/2	150	150	150	
3	125	125	125	75
4	100	100	100	60
5	75	75	75	
6	75	75	75	
8	50	50	50	

*Metal coupling pressures are based on ambient temperature (+70°F or +21°C) with standard NBR gasket.

*Plastic coupling pressures are based on ambient temperature (+70°F or +21°C) with standard NBR gasket.

ALUMINUM

FEATURES:

- Sizes 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 4" and 6" are manufactured to comply with Mil Spec A-A-59326A. They will interchange with any coupling manufactured to the same standard.
- Size 5" complies to an ASTM spec. It will interchange to any other coupling manufactured to the same spec.
- The 1/2" size is not specified to any Mil spec.
- The 8" comes in two different styles. That size will interchange as follows:
  - Jason 800 series interchanges with PT Domestic, Kuriyama of America, Dixon Global and Campbell.
  - Jason 801 series interchanges with PT Import, NECO, Dixon Andrews, Evertite/APG, UPD and Sealfast.
- Aluminum body features being lightweight, rigid and having high tensile strength.
- Female couplers are supplied with safety pins.
- Cam arms are 304 Stainless.
- With the exception of the 1/2" size, all other sizes are supplied with safety pins, which will prevent disconnection during use.

MATERIAL SPECS:

- Aluminum alloy spec ASTM B85 Grade 383.
- 304 Type stainless steel handles.
- Steel handle pins, pull rings and safety clips are all zinc-plated.
- Gaskets are nitrile.

BRASS

FEATURES:

- Sizes 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 4" and 6" are manufactured to comply with Mil Spec A-A-59326A. They will interchange with any coupling manufactured to the same standard.
- Size 5" complies to an ASTM spec. It will interchange to any other coupling manufactured to the same spec.
- The 1/2" size is not specified to any Mil spec.
- Brass body has high tensile strength and rigidity.
- With the exception of the 1/2" size, all other sizes are supplied with safety pins, which prevent disconnection during use.

MATERIAL SPECS:

- Brass material meets ASTM B584 Grade C85700 specs.
- 304 Type stainless steel handles and pull rings.
- Steel handle pins, pull rings and safety clips are all zinc-plated.
- Brass handles are forged.
- Gaskets are nitrile.

POWERING GLOBAL INDUSTRY

CAM & GROOVE COUPLINGS

CAM & GROOVE COUPLING SPECIFICATIONS

Markets Served:

Air ● Chemical ● Food ● Material Handling ● Mining ● Petroleum (including Fracking) ● Steam ● Water

304 STAINLESS STEEL

FEATURES:

- Sizes 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 4" and 6" are manufactured to comply with Mil Spec A-A-59326A. They will interchange with any coupling manufactured to the same standard.
- Size 5" complies to an ASTM spec. It will interchange to any other coupling manufactured to the same spec.
- The 1/2" size is not specified to any Mil spec.
- With the exception of the 1/2" size, all other sizes are supplied with safety pins, which will prevent disconnection during use.
- Chemical composition of the alloy is analyzed on every melt.
- Especialy capable for chemical and food applications.

MATERIAL SPECS:

- Coupling body material meets ASTM A666 304 stainless steel specifications.
- 304 Type stainless steel handles, safety pins and rings.
- Gaskets are nitrile.

316 STAINLESS STEEL

FEATURES:

- Sizes 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 4" and 6" are manufactured to comply with Mil Spec A-A-59326A. They will interchange with any coupling manufactured to the same standard.
- Size 5" complies to an ASTM spec. It will interchange to any other coupling manufactured to the same spec.
- The 1/2" size is not specified to any Mil spec.
- Chemical composition of the alloy is analyzed on every melt.
- Especialy capable for chemical and food applications.

MATERIAL SPECS:

- Coupling body material meets ASTM A666 316 stainless steel specifications.
- 304 Type stainless steel handles, safety pins and rings.
- Gaskets are nitrile.

POLYPROPYLENE

FEATURES:

- Sizes 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 4" and 6" are manufactured to comply with Mil Spec A-A-59326A. They will interchange with any coupling manufactured to the same standard.
- The 1/2" size is not specified to any Mil spec.

MATERIAL SPECS:

- Black Schedule 80 polypropylene body.
- 304 Type stainless steel handles, safety pins and rings.
- Gaskets are nitrile.

CAM & GROOVE COUPLINGS

POWERING GLOBAL INDUSTRY

PART A MALE ADAPTER x FEMALE THREAD

Male end fits coupler or Dust Cap. Female thread end is NPT.

Size	PART NUMBER Aluminum	304 Stainless	316 Stainless	Brass	Black SCH.80 Polypropylene
1/2		A050S	A050SS		A050P
3/4	A075A	A075S	A075SS	A075B	A075P
1	A100A	A100S	A100SS	A100B	A100P
1-1/4	A125A	A125S	A125SS	A125B	A125P
1-1/2	A150A	A150S	A150SS	A150B	A150P
2	A200A	A200S	A200SS	A200B	A200P
2-1/2	A250A	A250S	A250SS	A250B	
3	A300A	A300S	A300SS	A300B	A300P
4	A400A	A400S	A400SS	A400B	A400P
5	A500A				
6	A600A	A600S	A600SS	A600B	
8	A800A**				
8	A801A**				

PART B FEMALE COUPLER x MALE THREAD

Female end fits male adapter or Dust Plug. Male end thread is NPT. Bowl has recess for washer replacement.

Size	PART NUMBER Aluminum	304 Stainless	316 Stainless	Brass	Black SCH.80 Polypropylene
1/2		B050S	B050SS		B050P
3/4	B075A	B075S	B075SS	B075B	B075P
1	B100A	B100S	B100SS	B100B	B100P
1-1/4	B125A	B125S	B125SS	B125B	B125P
1-1/2	B150A	B150S	B150SS	B150B	B150P
2	B200A	B200S	B200SS	B200B	B200P
2-1/2	B250A	B250S	B250SS	B250B	
3	B300A	B300S	B300SS	B300B	B300P
4	B400A	B400S	B400SS	B400B	B400P
5	B500A				
6	B600A	B600S	B600SS	B600B	
8	B800A**				

PART C FEMALE COUPLER x HOSE SHANK

Female end fits male adapter or Dust Plug. Shank fits into hose ID. Bowl has recess for washer replacement.

CRIMP WITH SLEEVES ONLY

Size	PART NUMBER Aluminum	304 Stainless	316 Stainless	Brass	Black SCH.80 Polypropylene
1/2		C050S	C050SS		C050P
3/4	C075A	C075S	C075SS	C075B	C075P
1	C100A	C100S	C100SS	C100B	C100P
1-1/4	C125A	C125S	C125SS	C125B	C125P
1-1/2	C150A	C150S	C150SS	C150B	C150P
2	C200A	C200S	C200SS	C200B	C200P
2-1/2	C250A	C250S	C250SS	C250B	
3	C300A	C300S	C300SS	C300B	C300P
4	C400A	C400S	C400SS	C400B	C400P
5	C500A				
6	C600A	C600S	C600SS	C600B	
8	C800A**				
8	C801A**				

See Page 112 for interchange.

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POWERING GLOBAL INDUSTRY

CAM & GROOVE COUPLINGS

PART D FEMALE COUPLER x FEMALE THREAD

Female end fits male adapter or Dust Plug. Female end thread is NPT. Bowl has recess for washer replacement.

Size	PART NUMBER Aluminum	304 Stainless	316 Stainless	Brass	Black SCH.80 Polypropylene
1/2		D050S	D050SS		D050P
3/4	D075A	D075S		D075B	D075P
1	D100A	D100S	D100SS	D100B	D100P
1-1/4	D125A	D125S	D125SS	D125B	D125P
1-1/2	D150A	D150S	D150SS	D150B	D150P
2	D200A	D200S	D200SS	D200B	D200P
2-1/2	D250A	D250S	D250SS	D250B	
3	D300A	D300S	D300SS	D300B	D300P
4	D400A	D400S	D400SS	D400B	D400P
5	D500A				
6	D600A	D600S	D600SS	D600B	
8	D800A**				
8	D801A**				

PART E MALE ADAPTER x HOSE SHANK

Male end fits female coupler or Dust Cap. Shank fits into hose ID.

CRIMP WITH SLEEVES ONLY

Size	PART NUMBER Aluminum	304 Stainless	316 Stainless	Brass	Black SCH.80 Polypropylene
1/2		E050S	E050SS		E050P
3/4	E075A	E075S	E075SS	E075B	E075P
1	E100A	E100S	E100SS	E100B	E100P
1-1/4	E125A	E125S	E125SS	E125B	E125P
1-1/2	E150A	E150S	E150SS	E150B	E150P
2	E200A	E200S	E200SS	E200B	E200P
2-1/2	E250A	E250S	E250SS	E250B	
3	E300A	E300S	E300SS	E300B	E300P
4	E400A	E400S	E400SS	E400B	E400P
5	E500A				
6	E600A	E600S	E600SS	E600B	
8	E800A**				
8	E801A**				

PART F MALE ADAPTER x MALE THREAD

Male end fits female coupler or Dust Cap. Male end thread is NPT.

Size	PART NUMBER Aluminum	304 Stainless	316 Stainless	Brass	Black SCH.80 Polypropylene
1/2		F050S	F050SS		F050P
3/4	F075A	F075S	F075SS	F075B	F075P
1	F100A	F100S	F100SS	F100B	F100P
1-1/4	F125A	F125S	F125SS	F125B	F125P
1-1/2	F150A	F150S	F150SS	F150B	F150P
2	F200A	F200S	F200SS	F200B	F200P
2-1/2	F250A	F250S	F250SS	F250B	
3	F300A	F300S	F300SS	F300B	F300P
4	F400A	F400S	F400SS	F400B	F400P
5	F500A				
6	F600A	F600S	F600SS	F600B	
8	F800A**				

See Page 112 for interchange.

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CAM & GROOVE COUPLINGS

POWERING GLOBAL INDUSTRY

PART DC DUST CAP

Fits male adapters.

Size	PART NUMBER Aluminum	304 Stainless	316 Stainless	Brass	Black SCH.80 Polypropylene
1/2		DC050S	DC050SS		DC050P
3/4	DC075A	DC075S	DC075SS	DC075B	DC075P
1	DC100A	DC100S	DC100SS	DC100B	DC100P
1-1/4	DC125A	DC125S	DC125SS	DC125B	DC125P
1-1/2	DC150A	DC150S	DC150SS	DC150B	DC150P
2	DC200A	DC200S	DC200SS	DC200B	DC200P
2-1/2	DC250A	DC250S	DC250SS	DC250B	
3	DC300A	DC300S	DC300SS	DC300B	DC300P
4	DC400A	DC400S	DC400SS	DC400B	DC400P
5	DC500A				
6	DC600A	DC600S	DC600SS	DC600B	
8	DC800A**				

PART DP DUST PLUG

Fits male adapters.

Size	PART NUMBER Aluminum	304 Stainless	316 Stainless	Brass	Black SCH.80 Polypropylene
1/2		DP050S	DP050SS		
3/4	DP075A	DP075S	DP075SS	DP075B	DP075P
1	DP100A	DP100S	DP100SS	DP100B	DP100P
1-1/4	DP125A	DP125S	DP125SS	DP125B	DP125P
1-1/2	DP150A	DP150S	DP150SS	DP150B	DP150P
2	DP200A	DP200S	DP200SS	DP200B	DP200P
2-1/2	DP250A	DP250S	DP250SS	DP250B	
3	DP300A	DP300S	DP300SS	DP300B	DP300P
4	DP400A	DP400S	DP400SS	DP400B	DP400P
5	DP500A				
6	DP600A	DP600S	DP600SS	DP600B	
8	DP800A**				

**See Page 112 for interchange.

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POWERING GLOBAL INDUSTRY

CAM & GROOVE COUPLINGS

SERIES 800 & SERIES 801
8" CAM & GROOVE INTERCHANGE

Not all cam and groove couplings are interchangeable. At the 8" size, there are now two distinct designs. Jason has you covered on both types. See the charts below to interchange to the proper style coupling.

800 Series Interchanges with: PT Domestic, Kuriyama of America, Dixon Global and Campbell	
Jason Part Numbers	
A800A	E800A
B800A	F800A
C800A	DC800A
D800A	DP800A

801 Series Interchanges with: Dixon Andrews, NECO, Evertite/APG, PT Import, UPD and Sealfast	
Jason Part Numbers	
A801A	E801A
*B801A	*F801A
C801A	*DC801A
D801A	*DP801A

*Check with customer service for availability.

ANTI-LEAK ALUMINUM C x E CAM-LOCK COUPLINGS

This unique cam-lock employs a patented design that relies on two bands of rubber that act as a type of gasket surrounding two specific grooves on the cam-lock shank. When the hose wall is compressed against the bands of rubber, a preventive barrier is formed reducing the chance for leaks around the couplings.

Size	Part No.
1-1/2" Part C	**C150ALF**
2" Part C	**C200ALF**
3" Part C	**C300ALF**
4" Part C	**C400ALF**
6" Part C	**C600ALF**
1-1/2" Part E	**E150ALF**
2" Part E	**E200ALF**
3" Part E	**E300ALF**
4" Part E	**E400ALF**
6" Part E	**E600ALF**

REPLACEMENT BANDS - NITRILE					
ID	1-1/2"	2"	3"	4"	6"
Part No.	**RB15NBR**	**RB20NBR**	**RB30NBR**	**RB40NBR**	**RB60NBR**

PART DCL DUST CAP WITH LOCK OUT HANDLES

Handles fold over top of cap. Hole provided for padlock or seal. Padlock or seal not furnished.

Size	PART NUMBER Aluminum with SS Handles	Stainless Steel with SS Handles
1-1/4	**DCL125A**	**DCL125S**
1-1/2	**DCL150A**	**DCL150S**
2	**DCL200A**	**DCL200S**
2-1/2	**DCL250A**	**DCL250S**
3	**DCL300A**	**DCL300S**
4	**DCL400A**	**DCL400S**
6	**DCL600A**	**DCL600S**

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CAM & GROOVE COUPLINGS

POWERING GLOBAL INDUSTRY

REDUCING CAM & GROOVE COUPLINGS & ADAPTERS

A

Adapter x Female NPT

Size	Aluminum	Stainless Steel
2 x 1-1/2	A2015A	
2 x 2		A2020S
2 x 3	A2030A	
3 x 2	A3020A	
3 x 4	A3040A	
4 x 3	A4030A	
4 x 6	A4060A	
6 x 4	A6040A	

B

Coupler x Male NPT

Size	Aluminum	Stainless Steel
1-1/2 x 1	B1510A	
2 x 1-1/2	B2015A	
2 x 3	B2030A	
3 x 2	B3020A	
3 x 4	B3040A	
4 x 3	B4030A	
6 x 4	B6040A	

C

Coupler x Hose Shank

Size	Aluminum	Stainless Steel
2 x 1-1/2	C2015A	
3 x 2	C3020A	
3 x 1-1/2	C3025A	
3 x 4	C3040A	
4 x 3	C4030A	

D

Coupler x Female NPT

Size	Aluminum	Stainless Steel
1-1/2 x 1	D1510A	
2 x 1-1/2	D2015A	
3 x 2	D3020A	
4 x 3	D4030A	

E

Adapter x Hose Shank

Size	Aluminum	Stainless Steel
2 x 1-1/2	E2015A	
2 x 2-1/2	E2025A	
2 x 3	E2030A	
3 x 2	E3020A	
3 x 2-1/2	E3025A	
3 x 4	E3040A	
4 x 2	E4020A	
4 x 3	E4030A	

F

Adapter x Male NPT

Size	Aluminum	Stainless Steel
1-1/2 x 2	F1520A	
2 x 1-1/2	F2015A	
2 x 3	F2030A	
3 x 2	F3020A	
3 x 4	F3040A	
4 x 3	F4030A	
4 x 6	F4060A	

AA

Adapter x Adapter

Size	Aluminum	Stainless Steel
1 x 1	AA1010A	AA1010S
1-1/2 x 1-1/2	AA1515A	AA1515S
1-1/2 x 2	AA1520A	AA1520S
2 x 2	AA2020A	AA2020S
2 x 2-1/2	AA2025A	
2 x 3	AA2030A	AA2030S
2-1/2 x 2-1/2	AA2525A	
3 x 3	AA3030A	AA3030S
3 x 4	AA3040A	AA3040S
4 x 4	AA4040A	AA4040S
4 x 6	AA4060A	
6 x 6	AA6060A	

DA

Coupler x Adapter

Size	Aluminum	Stainless Steel
1-1/2 x 2	DA1520A	
2 x 1-1/2	DA2015A	
2 x 3	DA2030A	DA2030S
2 x 4	DA2040A	
3 x 1-1/2	DA3015A	
3 x 2	DA3020A	DA3020S
3 x 4	DA3040A	
4 x 2	DA4020A	
4 x 3	DA4030A	DA4030S
4 x 6	DA4060A	
6 x 4	DA6040A	DA6040S
6 x 5	DA6050A	
8 x 6	DA8060A	

DD

Coupler x Coupler

Size	Aluminum	Stainless Steel
1-1/2 x 1-1/2	DD1515A	DD1515S
2 x 2	DD2020A	DD2020S
2 x 3	DD2030A	
3 x 3	DD3030A	DD3030S
3 x 4	DD3040A	
4 x 4	DD4040A	DD4040S

All sizes may not be stocked in all locations. Check with customer service for availability. We disclaim any liability for use of our products in applications other than which they are designed.

POWERING GLOBAL INDUSTRY

CAM & GROOVE COUPLINGS

SAFETY-CAM COUPLINGS WITH LOCKING HANDLES

FEATURES

- 304 Stainless Arms.
- Aluminum Body.
- Available in Cam & Groove Types B, C, D and DC.
- Size range from 1-1/2" to 4".

BENEFITS

- No more dangling arms, no more snagging of the assembly.
- Prevents any disconnection during the transfer of solid or liquid products.
- Handles any rugged use. Resists disconnection if the assembly is being dragged.
- Easy-to-open - just pull down on the cam arm ring to disengage the locking mechanism.
- Part C can be attached to the hose using bands, clamps or **Jason Crimp Sleeves**.

PART B

Size	Part No. Aluminum	Part No. 304 Stainless
1-1/2"	**B150A54S**	**B150SS54S**
2"	**B200A54S**	**B200SS54S**
2-1/2"	**B250A54S**	
3"	**B300A54S**	**B300SS54S**
4"	**B400A54S**	**B400SS54S**

PART C

Size	Part No. Aluminum	Part No. 304 Stainless
1-1/2"	**C150A54S**	**C150SS54S**
2"	**C200A54S**	**C200SS54S**
2-1/2"	**C250A54S**	
3"	**C300A54S**	**C300SS54S**
4"	**C400A54S**	

PART D

Size	Part No. Aluminum	Part No. 304 Stainless
1-1/2"	**D150A54S**	**D150SS54S**
2"	**D200A54S**	**D200SS54S**
2-1/2"	**D250A54S**	
3"	**D300A54S**	**D300SS54S**
4"	**D400A54S**	

PART DC

Size	Part No. Aluminum	Part No. 304 Stainless
1-1/2"	**DC150A54S**	**DC150SS54S**
2"	**DC200A54S**	**DC200SS54S**
2-1/2"	**DC250A54S**	
3"	**DC300A54S**	**DC300SS54S**
4"	**DC400A54S**	

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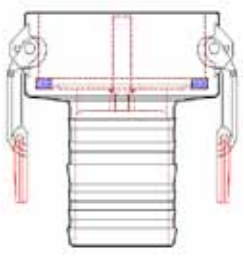
POWERING GLOBAL INDUSTRY

CAM & GROOVE COUPLINGS - VAPOR RECOVERY

To keep fumes from escaping into the atmosphere, use these fittings on the vapor return lines.

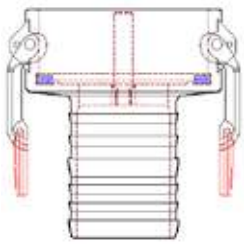
Aluminum Body ● Brass Handles ● Buna N Gasket ● Probe is Solid Brass ● Rated to 100 PSI WP

TYPE C FEMALE COUPLER x HOSE SHANK



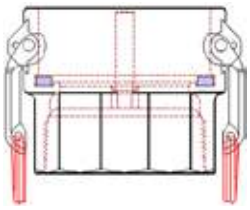
Part No.	Size	Size Description
C4030AVP	4" x 3"	4" Coupler w/Probe x 3" Hose Shank
C300AVP	3"	3" Coupler w/Probe x 3" Hose Shank
C400AVP	4"	4" Coupler w/Probe x 4" Hose Shank

TYPE C FEMALE COUPLER x HOSE SHANK - CRIMP FITTING



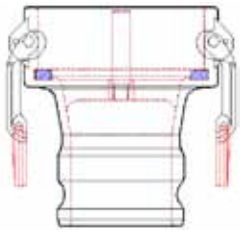
Part No.	Size	Size Description
C4030AVPC	4" x 3"	4" Coupler w/Probe x 3" Hose Shank
C300AVPC	3"	3" Coupler w/Probe x 3" Hose Shank
C400AVPC	4"	4" Coupler w/Probe x 4" Hose Shank

TYPE D FEMALE COUPLER x FEMALE THREAD



Part No.	Size	Size Description
D4030AVP	4" x 3"	4" Coupler w/Probe x 3" Female Thread
D300AVP	3"	3" Coupler w/Probe x 3" Female Thread
D400AVP	4"	4" Coupler w/Probe x 4" Female Thread

TYPE DA FEMALE COUPLER x HOSE SHANK



Part No.	Size	Size Description
DA4030AVP	4" x 3"	4" Coupler w/Probe x 3" Adapter

All sizes may not be stocked in all locations. Check with customer service for availability.

POWERING GLOBAL INDUSTRY

CAM & GROOVE COUPLINGS

TANK TRUCK API ADAPTERS, CAPS, COUPLERS & GASKETS - For offloading through the API adapter and coupler.

DUST CAP

Used to protect the face of poppet side of the API adapter. Comes with a nitrile gasket. Suitable for all API valves that meet API RP-1004 specs.

Size	Part No.	Description	Material
4"	**DC400ATC**	API Dust Cap	Aluminum
4"	**DC400PPTC**	API Dust Cap	Polypropylene

COUPLER x ADAPTER

Used in the process of unloading in order to connect the 4" API adapter to the 3" or 4" hose connection. Used primarily in gravity flow applications. Mates with 4" API RP-1004 tank truck adapters. Adapter comes with aluminum body and nitrile gasket. Angled down for better drainage.

Size	Part No.	Description	Material
4" x 3"	**DA4030ATC**	4" API Coupler x 3" Adapter	Aluminum
4" x 4"	**DA4040ATC**	4" API Coupler x 4" Adapter	Aluminum

COUPLER x COUPLER

This gravity drop coupler is designed to use gravity for quick and complete off-loading. Mates with all API RP-1004 bottom loading adapters. This coupler has an aluminum body and nitrile gaskets. Angled down for better drainage.

Size	Part No.	Description	Material
4" x 4"	**DD4040ATC**	4" API Coupler x 4" Coupler	Aluminum

REPLACEMENT GASKET

Size	Part No.	Description	Material
4"	**G400NBRTC**	Gasket for 4" API Coupler	Nitrile

All sizes may not be stocked in all locations. Check with customer service for availability.

CAM & GROOVE COUPLINGS

POWERING GLOBAL INDUSTRY

TANK TRUCK ACCESSORIES & FLAT FACE FLANGE COUPLINGS

GRIP PLUGS & GRIP CAPS

GRIP PLUG/GRIP CAP have been designed to ease the removal of hose assemblies from side storage tubes. Just grab the handle and pull. The GRIP PLUG/GRIP CAP are made from a polypropylene compound with a NBR bumper. Polypropylene is anti-static and can be used in petroleum applications.The bumper protects the coupling from damage due to drops or during transport. Environmentally, the GRIP PLUG/GRIP CAP prevents any leakage from the residual product left in the hose assembly.

Part Number	Hose Size in.	Hose Size mm	Description
GP200PN	2	50.80	Grip Plug
GP300PN	3	76.20	Grip Plug
GP400PN	4	101.60	Grip Plug
GC200PN	2	50.80	Grip Cap
GC300PN	3	76.20	Grip Cap
GC400PN	4	101.60	Grip Cap
BG200NBR	2	50.80	NBR Bumper
BG300NBR	3	76.20	NBR Bumper
BG400NBR	4	101.60	NBR Bumper


Grip Plug Assembly

Polypropylene body, anti-static • NBR bumper • 125 PSI WP @ 70°F (21°C)
Replacement bumpers can be ordered as needed


Grip Plug


Grip Cap


Grip Cap Attached

FLAT FACE FLANGE COUPLINGS

PART A x Flat Face Flange


ASTM BOLT SIZES

Part No.	Size
A300A3F	3″
A400A3F	4″
A600A3F	6″
A800A3F	8″

PART D x Flat Face Flange


ASTM BOLT SIZES

Part No.	Size
D300A3F	3″
D400A3F	4″
D600A3F	6″
D800A3F	8″

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POWERING GLOBAL INDUSTRY

CAM & GROOVE COUPLINGS

REPLACEMENT GASKETS FOR CAM & GROOVE COUPLINGS

SIZE	BLACK NBR P/N	WHITE NBR FDA	STANDARD BIO-FUEL	GASKET DIMENSIONS I.D. in.	I.D. mm	O.D. in.	O.D. mm	THICKNESS in.	THICKNESS mm
1/2	**S050N**			0.688	17.46	1.031	26.19	0.156	3.96
3/4	**S075N**			0.875	22.23	1.375	34.93	0.218	5.54
1	**S100N**			1.063	27.00	1.563	39.70	0.250	6.35
1-1/4	**S125N**			1.359	34.52	1.938	49.23	0.250	6.35
1-1/2	**S150N**	**S150NF**	**S150BFR**	1.625	41.28	2.188	55.58	0.250	6.35
2	**S200N**	**S200NF**	**S200BFR**	2.000	50.80	2.625	66.68	0.250	6.35
2-1/2	**S250N**			2.375	60.33	3.125	79.38	0.250	6.35
3	**S300N**	**S300NF**	**S300BFR**	3.000	76.20	3.719	94.46	0.250	6.35
4	**S400N**	**S400NF**	**S400BFR**	4.000	101.60	4.875	123.83	0.250	6.35
5	**S500N**			4.875	123.83	5.938	150.83	0.250	6.35
6	**S600N**		**S600BFR**	6.000	152.40	7.063	179.40	0.250	6.35
8	**S800N**			8.125	206.38	9.313	236.55	0.343	8.71

NOTE: Standard Bio-Fuel Gasket comes with one red stripe.

SIZE	HEAVY DUTY BIO-FUEL		I.D. in.	I.D. mm	O.D. in.	O.D. mm	THICKNESS in.	THICKNESS mm
2	**S200HBFR**		2.000	50.80	2.625	66.68	0.278	7.05
3	**S300HBFR**		3.000	76.20	3.719	94.46	0.278	7.05
4	**S400HBFR**		4.000	101.60	4.875	123.83	0.278	7.05

NOTE: Heavy Duty Bio-Fuel Gasket comes with two blue stripes.

REPLACEMENT HANDLES FOR CAM & GROOVE COUPLINGS

	1	1-1/4	1-1/2	2	2-1/2	3
BRASS	**HRP10B**	**HRP12B**	**HRP15B**	**HRP20B**	**HRP25B**	**HRP30B**
STAINLESS STEEL (304)	**HRP10S**	**HRP12S**	**HRP15S**	**HRP20S**	**HRP25S**	**HRP30S**
LOCK OUT STAINLESS			**LHP150S**	**LHP200S**	**LHP250S**	**LHP300S**

	4	6	8
BRASS	**HRP40B**	**HRP60B**	**HRP80B**
STAINLESS STEEL (304)	**HRP40S**	**HRP60S**	
LOCK OUT STAINLESS	**LHP400S**	**LHP600S**	

ACCESSORIES FOR CAM & GROOVE COUPLINGS

		Part No.		Part No.
SAFETY PIN	FITS SIZES 1/2" THRU 5"	**SPWS**	FITS SIZES 6" AND 8"	**SPXS**
SECURITY CHAIN, STAINLESS STEEL; 12"		**CH12S**		

All sizes may not be stocked in all locations. Check with customer service for availability.

PIN LUG COUPLINGS

POWERING GLOBAL INDUSTRY

Threaded couplings for suction or discharge of water or other fluids. Standard threading is NPSM; National Pipe Straight Mechanical. 1-1/2" and 2-1/2" are available with additional NST thread; American National Fire Hose Straight Thread. (NST does not interchange). Pin lugs are on all sizes of female end. 2-1/2" through 6" also have pin lugs on male end.

SET (M x F) PIN LUG SHANK COUPLINGS

Size	Thread	Aluminum W Brass Swivel	Brass W Brass Swivel
1-1/2	NPSM	**AB150**	**BR150**
1-1/2	NST	**AB150NST**	**BR150NST**
2	NPSM	**AB200**	**BR200**
2-1/2	NPSM	**AB250**	**BR250**
2-1/2	NST	**AB250NST**	**BR250NST**
3	NPSM	**AB300**	**BR300**
4	NPSM	**AB400**	**BR400**
6	NPSM	**AB600**	**BR600**

Iron Pin Lug Couplings available by special order.

FEMALE PIN LUG SHANK COUPLINGS

Size	Thread	Aluminum W Brass Swivel	Brass W Brass Swivel
1-1/2	NPSM	**AB150F**	**BR150F**
1-1/2	NST	**AB150NSTF**	**BR150NSTF**
2	NPSM	**AB200F**	**BR200F**
2-1/2	NPSM	**AB250F**	**BR250F**
2-1/2	NST	**AB250NSTF**	**BR250NSTF**
3	NPSM	**AB300F**	**BR300F**
4	NPSM	**AB400F**	**BR400F**
6	NPSM	**AB600F**	**BR600F**

ANTI-LEAK PIN LUG COUPLINGS - FOR LAYFLAT HOSE

Size	Thread	Aluminum W Brass Swivel
1-1/2	NPSM	**AB150LF**
2	NPSM	**AB200LF**
3	NPSM	**AB300LF**
4	NPSM	**AB400LF**

REPLACEMENT WASHERS FOR PIN LUG SHANK COUPLINGS

COUPLING SIZE	1-1/2	2	2-1/2	2-1/2 NST	3	4	6
PART NUMBER	**HW150**	**HW200**	**HW250**	**HW250NST**	**HW300**	**HW400**	**HW600**

All sizes may not be stocked in all locations. Check with customer service for availability.

POWERING GLOBAL INDUSTRY

UNIVERSAL AIR COUPLINGS

UNIVERSAL AIR COUPLINGS - 2 LUG

Used to connect air lines from compressors or other air source to all types of pneumatic tools and equipment. All 2 lug head connections are of one size for easy interchange. Hose shank or threaded end is coupling size. Male and Female threads are NPT. Malleable iron plated. (European style universals available special order.)

Application of Universal Crowfoot Air Hose Couplings

Universal crowfoot couplings are recommended to be used in the transfer of air and or water. The application should be in an open system where the air or water is in motion (dynamic) and not in a closed pressurized (static) condition. This dynamic application involves continuous flow, therefore, back pressure would be relieved by the very nature of the application. The applicable system should contain pressure relief valves to relieve any excess pressure. Safety clips and safety cables should be installed on either side of the coupling connection.

The rated, maximum working pressure of Universal Crowfoot Air Hose Couplings is 150 psi (at ambient temperature [70°F]) for all parts: HE, ME, FE.

WARNING: Universal Air Hose Couplings should NEVER be used for steam service.

HOSE END

Hose End Size	Iron Part No
3/8	**HE038**
1/2	**HE050**
3/4	**HE075**
1	**HE100**

MALE END

Hose End Size	Iron Part No
1/4	**ME025**
3/8	**ME038**
1/2	**ME050**
3/4	**ME075**
1	**ME100**

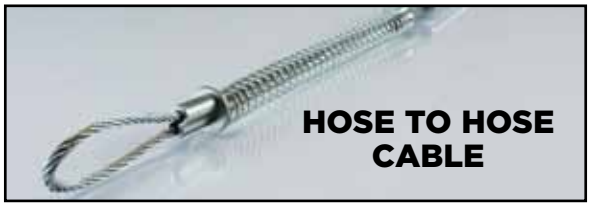
FEMALE END

Hose End Size	Iron Part No
1/4	**FE025**
3/8	**FE038**
1/2	**FE050**
3/4	**FE075**
1	**FE100**

WASHER for 2 Lug Universal **Part No. UG2**

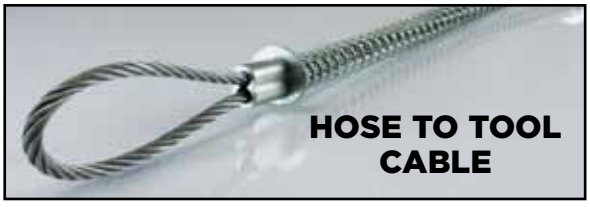
WHIPCHECK SAFETY CABLES

Prevent hose whip in case of accidental separation of coupling or clamp device.



HOSE TO HOSE CABLE

Cable	Hose I.D.	Part No
1/8" x 20" 1/4" x 38"	1/2" to 1-1/4" 1-1/2" to 3"	**HHWC1** **HHWC2**



HOSE TO TOOL CABLE

Cable	Hose I.D.	Part No
1/8" x 20" 1/4" x 38"	1/2" to 1-1/4" 1-1/2" to 3"	**HTWS1** **HTWS2**

All sizes may not be stocked in all locations. Check with customer service for availability.

UNIVERSAL AIR COUPLINGS

POWERING GLOBAL INDUSTRY

UNIVERSAL AIR COUPLINGS - 4 LUG

HOSE END

Hose End Size	Iron Part No
1-1/4 1-1/2 2	**HE125** **HE150** **HE200**

FEMALE END

Hose End Size	Iron Part No
1-1/4 1-1/2 2	**FE125** **FE150** **FE200**

WASHER for 4 Lug Universal **Part No. UG4**

UNIVERSAL AIR COUPLING ACCESSORIES

3 WAY CONNECTOR PART NO. TWC
Uses 3 sets of 2 lug connectors to provide an extra outlet from one air source.

Malleable Iron Plated.

DEAD END PART NO. BEC
Fits 2 lug head on universal couplings to block line. Hole in flat portion allows for securing dead end when not in use.

Malleable Iron Plated.

SAFETY PIN & LANYARD PART NO. SPL

All sizes may not be stocked in all locations. Check with customer service for availability.

POWERING GLOBAL INDUSTRY

AIR COUPLERS

INDUSTRIAL QUICK CONNECT AIR COUPLERS

FEMALE

Quick Connect x Female

Plug x Female

MALE

Quick Connect x Male

Plug x Male

HOSE END

Quick Connect x Hose End

Plug x Hose End

FEATURES

- Meets MIL-C-4109.
- All brass.
- Max inlet pressure is 300 PSI (20.7 BAR).
- Air flow is 40 SCFM.
- Seals are Buna-N.

Part No.	Description
QCF04B	Quick Connect x Female 1/4" NPT
QCM04B	Quick Connect x Male 1/4" NPT
QCF06B	Quick Connect x Female 3/8" NPT
QCM06B	Quick Connect x Male 3/8" NPT
QCH04B	Quick Connect x Hose End 1/4" (Barbed)
QCH06B	Quick Connect x Hose End 3/8" (Barbed)
QPF04B	Plug x Female 1/4" NPT
QPM04B	Plug x Male 1/4" NPT
QPF06B	Plug x Female 3/8" NPT
QPM06B	Plug x Male 3/8" NPT
QPH04B	Plug x Hose End 1/4" (Barbed)
QPH06B	Plug x Hose End 3/8" (Barbed)

COMPETITIVE INTERCHANGE

Jason Part No.	Milton Part No.	AMFLO Part No.	ARO Part No.	Coil Hose Part No.	Dixon Part No.	Forney Part No.	Lincoln Part No.	NAPA Part No.	Parker Part No.	Truflate Part No.
QCF04B	715	C20	MSCF22-000	150	DC20	75317	632004	90-670	B23	13-235
QCM04B	716	C21	MSCM22-000	152	DC21	75316		90-672	B22	13-224
QCF06B	718	C20-23	MSCF23-000	151	DC2023	75479		90-667	B23E	13-236
QCM06B	719	C21-03	MSCM23-000	155	DC2103			90-657	B22E	13-226
QCH04B	717	C20-42	MSCH22-000	153	DC2042	75480		90-671	B20-3B	13-264
QCH06B	717-6	C20-44	MSCH23-000		DC2044					13-266
QPF04B	728	CP20	23902-200	1502	DCP20	75302	630204	90-676	H3C	12-234/12-235
QPM04B	732	CP20-23	23902-300	1505	DCP2023			90-659	H3C-E	12-236
QPF06B	727	CP21	23902-210	1501	DCP21	75301	630104	90-674	H2C	12-224/12-225
QPM06B	733	CP21-03	23902-310	1503	DCP2103	75471		90-677	H2C-E	12-226
QCH04B	736	CP21-42	23902-220	1506	DCP2142			90-673	H8C	12-264
QCH06B	736-6	CP21-44	23902-420	1508	DCP2144				H9C	12-266

All sizes may not be stocked in all locations. Check with customer service for availability.

GROUND JOINT COUPLINGS

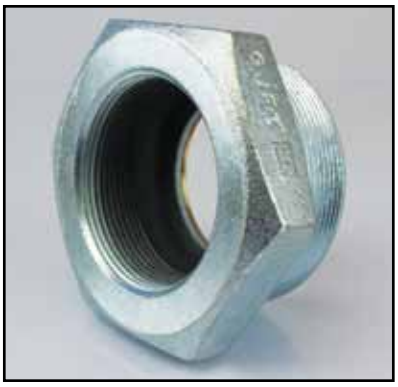
POWERING GLOBAL INDUSTRY

GROUND JOINT COUPLINGS

An all purpose coupling, the female ground joint consists of a MALE STEM, WING NUT and FEMALE SPUD. The female spud has NPT threads to accept the NPT threads of a rigid connection or male NPT nipple. Widely used for air, water or steam, the ground joint is secured with an interlocking clamp.

By replacing the female spud of a ground joint coupling with a double or male spud, hose to hose ground joint connections or hose to rigid connections are simplified. Double spuds for hose to hose connections are threaded NPS MALE X NPS MALE. (GJ wing nut is also NPS). For hose to rigid connection, the male spud is threaded NPS MALE X NPT MALE.

GROUND JOINT FEMALE



FEMALE SPUD

Hose Size*	Part No.
1/2	**GJ050F**
3/4	**GJ075F**
1	**GJ100F**
1-1/4	**GJ125F**
1-1/2	**GJ150F**
2	**GJ200F**
2-1/2	**GJ250F**
3	**GJ300F**
4	**GJ400F**

Hose Size*	Part No.
1/2	**GFS050**
3/4	**GFS075**
1	**GFS100**
1-1/4	**GFS125**
1-1/2	**GFS150**
2	**GFS200**
2-1/2	**GFS250**
3	**GFS300**
4	**GFS400**

*Size also represents Wing Nut and Spud thread size.

DOUBLE SPUD

MALE SPUD

Spud Size	Double Spud Part No.	Male Spud Part No.
1/2	**GDS050**	**GMS050**
3/4	**GDS075**	**GMS075**
1	**GDS100**	**GMS100**
1-1/4	**GDS125**	**GMS125**
1-1/2	**GDS150**	**GMS150**
2	**GDS200**	**GMS200**

All sizes may not be stocked in all locations. Check with customer service for availability.

POWERING GLOBAL INDUSTRY

SANDBLAST HOSE COUPLINGS

SANDBLAST HOSE COUPLINGS

There are three active sandblast system couplings; HOSE ENDS which are used to make hose to hose connections or hose to blast pot connections, NOZZLE HOLDERS that accept the male threaded end of a sandblast nozzle, and the THREADED POT END that is connected to the combination air and abrasive mix from the sandblast pot. All three are available in aluminum or brass. Hose ends are also available in Iron.

HOSE ENDS are sleeve type couplings that fit over the OD of the sandblast hose. They are secured to the hose with wood screws. Countersunk holes on the hose end ensure that the screws fit correctly and will not be snagged while the hose is in operation. Within the ID of the hose end is a corkscrew ridge that helps to twist the coupling onto the hose and more importantly, helps to minimize the force of blow-back. Hose-to-hose or hose-to-pot connections are made by the 2 lug crowfoot design. No matter what the hose size, the 2 log hose ends interchange for common connections.

NOZZLE HOLDERS are sleeve type couplings, secured to the hose with wood screws and have the same features as the sandblast hose end. The exception is that the end of the nozzle holder is NPT threaded to accept the sandblasting nozzle.

THREADED POT ENDS do not fit the hose, but rather are threaded (NPT or NPS) onto the sandblast pot. Once properly threaded to the discharge pipe on the pot, the 2 lug crowfoot design can now be connected to the 2 lug crowfoot design of the hose end. Now the pot can supply mix to the operator by way of the hose to the sandblast nozzle.

Hose ID	Hose OD	Aluminum	Quick End Brass	Nozzle Holder Aluminum	Nozzle Holder Brass
3/4	1-1/2	**Q1A**	**Q1B**	**NH1A**	**NH1B**
1	1-7/8	**Q2A**	**Q2B**	**NH2A**	**NH2B**
1-1/4	2-5/32	**Q3A**	**Q3B**	**NH3A**	**NH3B**
1-1/2	2-3/8	**Q4A**	**Q4B**	**NH4A**	**NH4B**

Thread Size	Type	Threaded Pot End Aluminum	Threaded Pot End Brass
1-1/4	NPT	**SB1A**	**SB1B**
1-1/4	NPS	**SB10A**	**SB10B**
1-1/2	NPT	**SB2A**	**SB2B**
1-1/2	NPS	**SB20A**	**SB20B**

Replacement **GASKETS** for metal hose end/pot end. One size fits all. **Part No. QW**

All sizes may not be stocked in all locations. Check with customer service for availability.

LOCKING LEVER PUMP COUPLINGS

POWERING GLOBAL INDUSTRY

LOCKING LEVER PUMP COUPLINGS

- Full Vacuum Rated
- Type B Industrial
- Lock Pin Lever
- Galvanized
- 30° Articulation
- NBR O-Ring
- Interchangeable
- Quick and Easy Connections

MALE BALL x SHANK

Size (in.)	Part Number
2	BMS200
3	BMS300
4	BMS400
6	BMS600
8	BMS800

FEMALE SOCKET* x SHANK

Size (in.)	Part Number
2	BFS200
3	BFS300
4	BFS400
6	BFS600
8	BFS800

* includes O-Ring

MALE BALL x THREAD*

Size (in.)	Part Number
2	BMT200
3	BMT300
4	BMT400
6	BMT600
8	BMT800

* NPT

FEMALE SOCKET x THREAD**

Size (in.)	Part Number
2	BFT200
3	BFT300
4	BFT400
6	BFT600
8	BFT800

* includes O-Ring ** NPT

O-RING*

Size (in.)	Part Number
2	BOR200
3	BOR300
4	BOR400
6	BOR600
8	BOR800

* NBR

Not recommended for chemicals or hazardous materials.

All sizes may not be stocked in all locations. Check with customer service for availability.

We disclaim any liability for use of our products in applications other than which they are designed.

POWERING GLOBAL INDUSTRY

LOCKING LEVER PUMP COUPLINGS

LOCKING LEVER PUMP COUPLINGS

- Full Vacuum Rated
- Type B Industrial
- Lock Pin Lever
- Galvanized
- 30° Articulation
- NBR O-Ring
- Interchangeable
- Quick and Easy Connections

FULL ASSEMBLY*

Size (in.)	Part Number
2	BGA200
3	BGA300
4	BGA400
6	BGA600
8	BGA800

* includes O-Ring

LEVER RING*

Size (in.)	Part Number
2	BLR200
3	BLR300
4	BLR400
6	BLR600
8	BLR800

* with safety clip

MALE BALL x FLANGE (150 ASA)

Size (in.)	Part Number
4	BMF400
6	BMF600
8	BMF800

Not recommended for chemicals or hazardous materials.

FEMALE SOCKET* x FLANGE (150 ASA)

Size (in.)	Part Number
4	BFF400
6	BFF600
8	BFF800

*Includes O-Ring

150 ASA FLANGE DIMENSIONS

Size in.	Size mm.	Bolt Circle Dia. in.	Bolt Circle Dia. mm	No. of Bolts	Diameter of Bolts in.	Diameter of Bolts mm.	Diameter of Bolt Holes in.	Diameter of Bolt Holes mm	Flange O.D. in.	Flange O.D. mm.	Weight lbs.	Weight kg.
4	101.60	7-1/2	190.50	8	5/8	15.88	3/4	19.05	9	228.60	13	29.25
6	152.40	9-1/2	241.30	8	3/4	19.05	7/8	22.23	11	279.40	19-1/2	43.88
8	203.20	11-3/4	298.45	8	3/4	19.05	7/8	22.23	13-1/2	342.90	30	67.50

All sizes may not be stocked in all locations. Check with customer service for availability.

INTERLOCKING CLAMPS

POWERING GLOBAL INDUSTRY

2, 4 AND 6 BOLT INTERLOCKING CLAMPS

These clamps are used on any fitting with a collar to engage the forward gripping fingers of the interlocking clamp. However, they are most commonly used on ground joint females and male collared nipples. Smaller sizes provide a safe and economical securing method for universal hose ends. The forward gripping fingers engage the collar preventing the shank or stem from pulling out. Tightening the bolts secures the clamp around the O.D. of the hose.

2 BOLT

4 BOLT

6 BOLT

OD Range From In.	OD Range From Decimal	OD Range To In.	OD Range To Decimal	Number Of Bolts	Torque lbs./ft.	Part No.	Ref No.
11/16	0.69	3/4	0.75	2	6	**2BS038**	CD
15/16	0.94	1-1/16	1.06	2	12	**2BC050**	B4
1	1.00	1-1/8	1.13	2	12	**2BS050**	A4
1-1/16	1.06	1-3/16	1.19	2	12	**2BC051**	B5
1-1/8	1.13	1-5/16	1.31	2	21	**2BS075**	A9
1-3/16	1.19	1-5/16	1.31	2	21	**2BC075**	BU9
1-5/16	1.31	1-1/2	1.50	2	21	**2BC076**	B9
1-1/2	1.50	1-11/16	1.69	2	21	**2BC077**	B10
1-17/32	1.53	1-23/32	1.72	4	21	**4BC100**	BU14
1-13/32	1.41	1-9/16	1.56	4	21	**4BC100A**	156
1-5/8	1.63	1-27/32	1.84	4	21	**4BC101**	
1-7/8	1.88	2-1/16	2.06	4	21	**4BC102**	B15
2-1/16	2.06	2-1/4	2.25	4	40	**4BC125**	B19
2-3/32	2.09	2-9/32	2.28	4	40	**4BC150**	BU24
2-1/4	2.25	2-7/16	2.44	4	40	**4BC151**	B24
2-15/32	2.47	2-23/32	2.72	4	40	**4BC152**	
2-1/2	2.50	2-25/32	2.78	4	60	**4BC200**	BU29
2-3/4	2.75	3-1/16	3.06	4	60	**4BC201**	306
3-3/32	3.09	3-7/16	3.44	4	60	**4BC202**	B30
3-1/2	3.50	3-15/16	3.94	4	150	**4BC250**	B34
3-13/16	3.81	4-3/16	4.19	4	150	**4BC300**	B35
4-1/16	4.06	4-7/16	4.44	4	200	**4BC301**	B39
4-1/4	4.25	4-13/16	4.81	6	150	**6BC400**	BS39
4-7/8	4.88	5-5/16	5.31	6	150	**6BC401**	
5-1/4	5.25	5-19/32	5.59	6	150	**6BC402**	

All sizes may not be stocked in all locations. Check with customer service for availability.

POWERING GLOBAL INDUSTRY

DOUBLE BOLT CLAMPS

DOUBLE BOLT HOSE CLAMPS

Reusable, these clamps provide an efficient means of securing couplings for low pressure discharge or suction service. Double bolt hose clamps are sized for hose OD's from 1-5/8" through 17-1/2". As the bolts are tightened, the double-tongue saddles fill the gap between the bolt lugs preventing pinching of the hose OD. Fully tightened, the double bolt clamps secure the full circumference of the hose. Plated malleable iron.

Hose OD Range From	To	Part No	Torque lbs./ft.	Hose OD Range From	To	Part No	Torque lbs./ft.
1-5/8	1-15/16	DB049	20	7-11/16	8-3/16	**DB818**	125
1-7/8	2-3/8	DB060	20	8-1/4	8-7/8	**DB875**	125
2-3/8	3-7/16	DB076	20	8-15/16	9-7/8	**DB988**	125
3-1/2	3-11/16	DB094	40	9-15/16	11-3/8	**DB1125**	125
3-1/2	4	DB400	40	11-3/16	13	**DB1275**	125
4-1/16	4-7/16	DB463	40	12-3/16	14	**DB1360**	200
4-3/16	5	DB525	60	13-3/16	15	**DB1450**	200
5	5-1/2	DB550	60	15-1/16	17-1/2	**DB1700**	260
5-1/2	6-1/16	DB600	60				
6-1/8	6-7/8	DB675	60				
6-15/16	7-5/8	DB769	60				

DOUBLE BOLT HOSE CLAMPS FOR CORRUGATED HOSE

Clamps (for corrugated hose) manufactured in either clockwise (right hand) or counter clockwise (left hand) design, the spiral double bolt clamp fits between the convolutions on corrugated hose. When fully tightened, the wire secures the full circumference of the outside hose wall - not the convolutions, for a safe, economical and efficient securing method. Consult hose manufacturer for correct convolution direction. Direction of clamp spiral and hose convolution are the same.

Hose ID	1-1/2	2	2-1/2	3	4
Part No*	**SDB150**	**SDB200**	**SDB250**	**SDB300**	**SDB400**
Hose ID	5	6	8	10	12
Part No*	**SDB500**	**SDB600**	**SDB800**	**SDB1000**	**SDB1200**

*Specify clockwise -cw or counterclockwise - ccw

All sizes may not be stocked in all locations. Check with customer service for availability.

NIPPLES & ACCESSORIES

POWERING GLOBAL INDUSTRY

COMBINATION HOSE NIPPLES

PLATED

STAINLESS

POLYPROPYLENE

VICTAULIC

CN's are used in a variety of fluid applications. They are available in unplated steel, plated steel, polypropylene, victaulic and 304 stainless steel. End (male) threads are NPT (will mate with foot valves, strainers, cam and groove part A, D etc.) and are the same size as shank. **Not for use with crimp ferrule.**

Hose ID	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2
Part No							
Unplated	**CN050**	**CN075**	**CN100**	**CN125**	**CN150**	**CN200**	**CN250**
Plated	**CN050P**	**CN075P**	**CN100P**	**CN125P**	**CN150P**	**CN200P**	**CN250P**
304 Stainless	**CN050S**	**CN075S**	**CN100S**	**CN125S**	**CN150S**	**CN200S**	**CN250S**
Polypropylene*	**CN050PP**	**CN075PP**	**CN100PP**	**CN125PP**	**CN150PP**	**CN200PP**	**CN250PP**
Victaulic	**CN050V**	**CN075V**	**CN100V**	**CN125V**	**CN150V**	**CN200V**	**CN250V**

Hose ID	3	4	5	6	8	10	12
Part No							
Unplated	**CN300**	**CN400**	**CN500**	**CN600**	**CN800**	**CN1000**	**CN1200**
Plated	**CN300P**	**CN400P**	**CN500P**	**CN600P**	**CN800P**	**CN1000P**	**CN1200P**
304 Stainless	**CN300S**	**CN400S**	**CN500S**	**CN600S**			
Polypropylene*	**CN300PP**	**CN400PP**					
Victaulic	**CN300V**	**CN400V**	**CN500V**	**CN600V**	**CN800V**		

***Black Schedule 80**

All sizes may not be stocked in all locations. Check with customer service for availability.

POWERING GLOBAL INDUSTRY

NIPPLES & ACCESSORIES

HEX AIR HOSE NIPPLES

For air or many other applications, MS nipples are economical and reusable. The MS nipple accepts bands or clamps. However, each MS is especially designed with a collar behind the hex to engage the gripping fingers of an interlocking clamp. MS threads are NPT. Steel Plated. Use also as companion end of female ground joint.

MS NIPPLE

Hose Size	Thread Size	Part No.
1/4	1/4	**MS4-4**
1/4	3/8	**MS4-6**
3/8	1/4	**MS6-4**
3/8	3/8	**MS6-6**
3/8	1/2	**MS6-8**
1/2	1/4	**MS8-4**
1/2	3/8	**MS8-6**
1/2	1/2	**MS8-8**
1/2	3/4	**MS8-12**
3/4	1/2	**MS12-8**
3/4	3/4	**MS12-12**
3/4	1	**MS12-16**
1	3/4	**MS16-12**
1	1	**MS16-16**
1-1/4	1-1/4	**MS20-20**
1-1/2	1-1/2	**MS24-24**
2	2	**MS32-32**
2-1/2	2-1/2	**MS40-40**
3	3	**MS48-48**
4	4	**MS64-64**

TUBE HOSE MENDER

Type SM hose menders repair hose up to and including ID's of 12". After cutting out the damaged hose portion, insert each end of the mender (shanks) into the remaining good ends of the hose. Secure the SM type mender with bands or DB double bolt clamps. Each end will accommodate two or more bands or two clamps for an economical and efficient return to service. Plated Steel.

HOSE ID	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2
PART NO	**SM050**	**SM075**	**SM100**	**SM125**	**SM150**	**SM200**	**SM250**
HOSE ID	3	4	5	6	8	10	12
PART NO	**SM300**	**SM400**	**SM500**	**SM600**	**SM800**	**SM1000**	**SM1200**

All sizes may not be stocked in all locations. Check with customer service for availability.

POWERING GLOBAL INDUSTRY

BRASS BALL VALVES

Part Number	Size	A mm	Thread
BV025BF	1/4	6.4	1/4 NPT
BV038BF	3/8	9.9	3/8 NPT
BV050BF	1/2	14.0	1/2 NPT
BV075BF	3/4	19.0	3/4 NPT
BV100BF	1	24.0	1 NPT
BV125BF	1-1/4	31.0	1-1/4 NPT
BV150BF	1-1/2	38.0	1-1/2 NPT
BV200BF	2	49.0	2 NPT
BV250BF	2-1/2	64.0	2-1/2 NPT
BV300BF	3	79.0	3 NPT
BV400BF	4	99.0	4 NPT

Ball Valve Components		
1	Valve Body	Brass
2	Valve Cap	Brass
3	O-Ring	PTFE
4	Ball	Brass, chrome-plated
5	StemSpacer/ Gasket	PTFE
6	O-Ring	PTFE
7	Stem	Brass
8	Nut	Brass
9	Cap	Brass
11	Handle	Carbon Steel

FEATURES:

- Sizes to 2” rated 600 WOG,
- 2-1/2”, 3” and 4” rated 400 WOG
- Brass ball is chromium plated.
- Ball seat is Teflon*.

*DuPont Registered Trademark

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POWERING GLOBAL INDUSTRY

ACCESSORIES

MINI BALL VALVES

FEATURES:

- Valve body is plated brass.
- Temperature range up to 150°F (66°C).
- Handles working pressures up to 150 PSI.

Size	Part No.	Port Type
1/8	**MBV018BS**	Standard
1/4	**MBV025BF**	Full
3/8	**MBV038BF**	Full
1/2	**MBV050BS**	Standard

Female NPT x Female NPT

FOOT VALVES FOR WATER SUCTION HOSE

Foot valves are used on the submersed end of the water suction hose to prevent the pump from losing it's prime when shut down. The foot valve stops the water from draining by a closing leather flapper gate. Each valve has a built in strainer that prevents debris from entering during operation. All sizes have NPS threads and complete valves are painted red.

Size	Part No.
1-1/2	**FV150**
2	**FV200**
2-1/2	**FV250**
3	**FV300**

Size	Part No.
4	**FV400**
6	**FV600**
8	**FV800**

All sizes may not be stocked in all locations. Check with customer service for availability.

ACCESSORIES

STRAIGHT STREAM BRASS NOZZLES

Made from cast brass with satin finish. Orifice tip sizes are standard.

All sizes, for use at 100 PSI, water only at 70°F.

Size	Length	Size	Length
3/4	6″	1-1/2	10″
1	8″	2	12″
1-1/4	9″		

Thread Size	Type	Tip Size	Part No	Thread Size	Type	Tip Size	Part No
3/4	GHT	1/4	**BN075**	1-1/2	NST	1/2	**BN150NST**
3/4	NPSH	1/4	**BN076**	2	NPSH	9/16	**BN200**
1	NPSH	5/16	**BN100**	2-1/2	NPSH	3/4	**BN250**
1-1/4	NPSH	3/8	**BN125**	2-1/2	NST	3/4	**BN251**
1-1/2	NPSH	1/2	**BN150**				

COMBINATION PLASTIC OR BRASS FOG NOZZLES

Plastic nozzles are made of high impact bright red plastic with corrosion resistant metal parts. Brass nozzles are high quality heavy brass. These nozzles allow for straight stream or fog spray pattern in industrial, utility or commercial use.

Thread Size	Type	Part No Plastic	Part No Brass
1-1/2	NPS	**FN150**	**FN150B**
1-1/2	NST	**FN150NST**	**FN150BNST**
2	NPS		**FN200B**
2-1/2	NPS		**FN250B**
2-1/2	NST		**FN250BNST**

Red Nozzles for use at 100 PSI, water only at 70°F

Brass Nozzles for use at 100 PSI, water only at 70°F

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POWERING GLOBAL INDUSTRY

ACCESSORIES

SPANNER WRENCH FOR PIN LUG COUPLINGS

Made from ductile iron with easy grip handle, contour head to fit the coupling curve and special round hole to engage the pinlug.

Size	1-1/2	2	2-1/2	2 x 2-1/2	3	4
Part No	**SW150**	**SW200**	**SW250**	**SW2025**	**SW300**	**SW400**

UNIVERSAL SPANNER WRENCH

Ductile iron painted red. Complete with pry bar end and gas cock shut off/on feature. Other end used as pinlug or rocker lug wrenching.

PART NO. ***US-1***

ADJUSTABLE HYDRANT WRENCH

A complete tool for the fire hydrant operation. The pentagonal nut head is adjustable to fit hydrant valves to 1-3/4" for on/off operation. The head also operates pin lug or rocker lug connections from 1-1/2" to 6"

PART NO. ***HYD-1***

Lighter in weight than the HYD-1 with the same adjustable features. Fits 1-3/4" pentagonal nuts. The head will operate hydrant cap and adapter pin or rocker lugs. Handle is plated.

PART NO. ***HYD-3***

All sizes may not be stocked in all locations. Check with customer service for availability.

POWERING GLOBAL INDUSTRY

STRAINERS FOR WATER SUCTION HOSE

Used on the submersed end of suction hose to prevent debris from entering the pump during operation. All threads are NPS (trash strainers are square hole).

ROUND HOLE

SQUARE HOLE

TUBE

TOP HOLE

BOTTOM HOLE

Size	Round Hole Part No	Square Hole Part No	Tube Part No	Top Hole Part No	Bottom Hole Part No
1-1/2	**RHS150**	**SHS150**	**TRHS150**	**THS150**	**BHS150**
2	**RHS200**	**SHS200**	**TRHS200**	**THS200**	**BHS200**
2-1/2	**RHS250**				
3	**RHS300**	**SHS300**	**TRHS300**	**THS300**	**BHS300**
4	**RHS400**	**SHS400**			
6	**RHS600**	**SHS600**			
8	**RHS800**				

HYDRANT ADAPTERS - BRASS

For industrial utility and fire department applications, these adapters allow easy connections from hydrant to smaller size hose. Made of heavy duty cast brass with satin finish, all female ends are supplied with pin lug wrenching. All threads are V cut.

Female Size	Female Thread	Male Size	Male End Thread	Part No
1-1/2	NPT	1-1/2	NST	**HAB1516**
1-1/2	NST	1-1/2	NPT	**HAB1615**
2	NPT	1-1/2	NST	**HAB2016**
2-1/2	NST	3/4	GHT	**HAB075**
2-1/2	NST	3/4	NPSM	**HAB076**
2-1/2	NST	1	NPSM	**HAB100**
2-1/2	NST	1-1/2	NPSM	**HAB150**
2-1/2	NST	1-1/2	NPT	**HAB150NPT**
2-1/2	NST	1-1/2	NST	**HAB150NST**
2-1/2	NST	2	NPSM	**HAB200**
2-1/2	NST	2	NPT	**HAB200NPT**
2-1/2	NST	2-1/2	NPT	**HAB250NPT**

Other thread combinations and particular city/municipal hydrant threads are available in brass with minimal factory order.
Replacement Gasket: HAG250

All sizes may not be stocked in all locations. Check with customer service for availability.

POWERING GLOBAL INDUSTRY

ACCESSORIES FOR OIL & GAS DRILLING

STRAINERS - SUGAR CONE TYPE

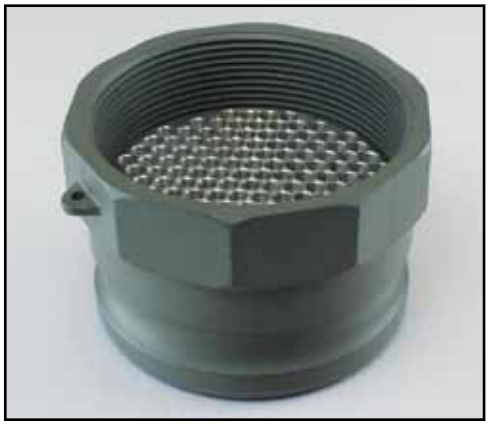
Applications include - water, oil or gas and steam where protection from foreign matter is required in a pipeline. For water, oil and gas applications, the strainer is normally inserted into a sight glass.

FEATURES:

- 304 Stainless Steel
- Permanently attached envelope gasket that makes the assembly with the sight glass and cam & groove fittings much easier.
- Gasket is a nitrile compound.

Part No.	Size (in.)	Size (mm)
CS200SS	2.00	50.80
CS300SS	3.00	76.20
CS400SS	4.00	101.60

PUMP PLATE STRAINERS



Pump Plate Strainers are made to thread into Part "A" or Part "D" cam and groove fittings. Threads are NPT. The strainer is used to protect pumps from large contaminants.

FEATURES:

- NPT thread.
- 1/4" holes.
- 0.20" thick.
- Aluminum.
- Easy to assemble with Parts A and D cam and groove couplings.

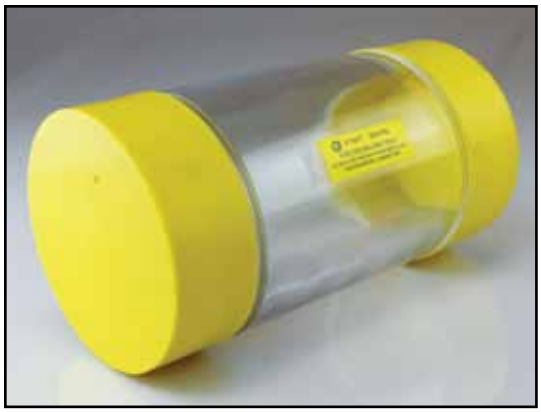
Part No.	Size (in.)	Size (mm)
25PS150A	1.50	38.10
25PS200A	2.00	50.80
25PS300A	3.00	76.20
25PS400A	4.00	101.60

All sizes may not be stocked in all locations. Check with customer service for availability.

ACCESSORIES FOR OIL & GAS DRILLING

POWERING GLOBAL INDUSTRY

SIGHT GLASSES - POLYCARBONATE



Sight Glasses enable the water hauler and pumper to view, at any time, what is streaming through the storage tank drain lines.

Part No.	Size (in.)	Size (mm)
SGT200	2.00	50.80
SGT300	3.00	76.20
SGT400	4.00	101.60

WARNING!

- **DO NOT TIGHTEN OR LOOSEN WHILE UNDER PRESSURE**
- **AVOID DIRECT CONTACT WITH STRONG ACIDS OR CHEMICALS**
- **ALWAYS PLACE THE PIPE WRENCH ON THE METAL CONNECTIONS AND NOT THE SIGHT GLASS ITSELF WHEN TIGHTENING.**
- **USE ON DRAIN LINES ONLY. NEVER USE ON FLOW LINES.**
- **ALWAYS USE AN OILY RAG WHEN CLEANING THIS PRODUCT.**

FEATURES:

- Temperature range from -76°F to 185°F - greater range than the poly-acrylic versions.
- Heavier than Schedule 80.
- Working pressure up to 500 PSI for both sizes.
- NPT pipe threads on both ends.
- Comes with thread protectors on both ends.
- High impact resistant polycarbonate material.
- Excellent UV ray resistance.
- Excellent resistance to most acids, low concentrations of alcohol and alkalis. Compatible with aliphatic hydrocarbons, aromatic hydrocarbons, mild detergents and cleaners, greases and oils & silicone greases and oils.

SIGHT GLASS FLANGES

Sight Glass Flanges make it easier to see what is flowing through. Used in petroleum (fracking), water and oil tankers.

Part No.	Size (in.)	Size (mm)
SGF300	3.00	76.20
SGF400	4.00	101.60

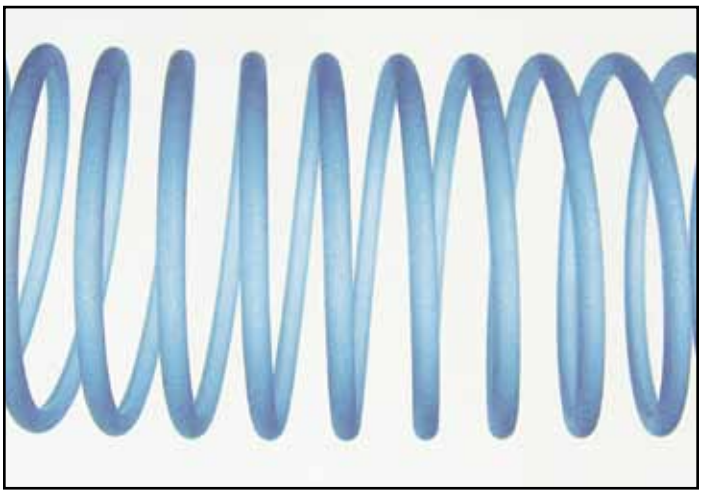
All sizes may not be stocked in all locations. Check with customer service for availability.

We disclaim any liability for use of our products in applications other than which they are designed.

POWERING GLOBAL INDUSTRY

ACCESSORIES

3098 BANDING COILS



CONSTRUCTION: Clear FDA PVC.

APPLICATION: Clockwise coils allow for a better coupling securing surface on the hose O.D.

FEATURES:

- Made with clear FDA PVC, 3098 can be used on any thermoplastic cover compound.
- Fits high profile clockwise O.D. corrugations for a smooth coupling securing surface.
- Fits low profile clockwise O.D. corrugations for a slightly raised coupling securing surface.
- Cut one length in half to accomodate both ends of one hose assembly.

Part Number	Fits Hose ID in.	Fits Hose ID mm.	Coil Length in.	Coil Length mm.
3098-0150	1-1/2	38.1	6	152.4
3098-0200	2	50.8	7	177.8
3098-0250	2-1/2	63.5	8	203.2
3098-0300	3	76.2	8	203.2
3098-0400	4	101.6	9	228.6
3098-0500	5	127.0	10	254.0
3098-0600	6	152.4	14	355.6

3099 BANDING SLEEVES

Cut to 12" sleeves for each end of the assembly.

CONSTRUCTION: Green, yellow or orange PVC.

APPLICATION: Banding sleeves are made to thread over the outside of Jason thermoplastic petroleum hoses to allow better coupling securing surface on the O.D. of the hose.

FEATURES:

- Color-coded to fit specific Jason petroleum hoses
- Clockwise threading
- All sleeve lengths are 3 ft.

Part Number	Fits Hose ID in.	Fits Hose ID mm.	Use On Hose Series	Sleeve Color
3099-03-3040	3	76.2	3040	Green
3099-04-3040	4	101.6	3040	Green
3099-03-3045	3	76.2	3045	Green
3099-04-3045	4	101.6	3045	Green
3099-02-3050	2	50.8	3050	Yellow
3099-03-3050	3	76.2	3050	Yellow
3099-04-3050	4	101.6	3050	Yellow
3099-03-3053	3	76.2	3053	Yellow
3099-04-3053	4	101.6	3053	Yellow
3099-02-3058	2	50.8	3058	Orange
3099-03-3058	3	76.2	3058	Orange
3099-04-3058	4	101.6	3058	Orange

All sizes may not be stocked in all locations. Check with customer service for availability.

CHEMICAL, OIL & SOLVENT RESISTANCE TABLE - RUBBER HOSE

WARNING: The following data has been compiled from generally available sources and should not be relied upon without consulting and following the hose manufacturer's specific chemical recommendations. Neglecting to do so might result in failure of the hose to fulfill it's intended purpose, and may result in possible damage to property and serious bodily injury.

ELASTOMER / PLASTICS			
NR	Natural Rubber	**EPDM**	Ethylene-propylene-diene-terpolymer
IR	Isoprene (synthetic)	**FKM**	Fluorocarbon rubber (Viton)
SBR	Styrene-butadiene	**UHMW**	Ultra High Molecular Weight Polyethylene
CR	Chloroprene (Neoprene*)	**XLPE**	Cross-linked polyethylene
NBR	Nitrile-butadiene (Buna-N)	**CSM**	Chloro-sulfonyl-polyethylene (Hypalon)
IIR	Isobutene-isoprene (Butyl)		

*Trademark of DuPont Inc.

RESISTANCE RATING			
E	EXCELLENT	C	ACCEPTABLE
G	GOOD	X	UNSATISFACTORY
F	FAIR	N	NO DATA

Maximum temperature 100°F (38°C) unless otherwise specified.

CHEMICAL, OIL & SOLVENT RESISTANCE TABLE - RUBBER HOSE

	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMWPE
Absorpton Oil	X	X	G	E	X	G	X	G	G
Acetal	C	C	C	X	G	C	C	G	G
Acetaldehyde	C	X	F	X	E	C	G	E	G
Acetamide	C	C	G	G	E	G	E	E	E
Acetate Solvents	C	X	X	X	C	X	C	E	E
Acetic Acid 10%	X	X	G	X	G	G	G	E	G
Acetic Acid 30%	X	X	C	G	G	G	G	E	E
Acetic Acid 50%	X	X	C	C	G	X	G	E	G
Acetic Acid, Glacial	X	X	C	X	G	X	X	G	G
Acetic Aldehyde	X	N	N	N	G	X	E	E	E
Acetic Anhydride	X	X	G	X	E	G	E	E	G
Acetic Ester (Ethyl Acetate)	X	X	X	X	G	X	G	E	E
Acetic Ether (Ethyl Acetate)	X	X	X	X	G	C	G	E	E
Acetic Oxide (Acetic Anhydride)	X	X	X	X	C	G	G	E	E
Acetone	C	C	F	X	E	F	E	E	E
Acetone Cyanohydrin	X	X	N	N	G	N	G	E	G
Acetophenone	C	X	X	X	E	X	E	G	G
Acetyl Acetone	X	X	X	X	G	X	E	E	E
Acetyl Chloride	X	X	X	X	C	X	C	G	G
Acetyl Oxide	X	N	N	X	E	G	E	E	G
Acetyl-P-Toluidine	X	X	N	N	X	N	X	E	E
Acetylene	E	E	G	E	E	E	E	E	E
Acetylene Dichloride (Dichlorethylene)	X	X	N	N	X	N	X	X	X
Acetylene Tetrachloride	X	X	N	N	X	N	X	X	X
Acrolein (hydroquinine inhibited)	N	N	N	N	G	N	X	E	E
Acrylamide	N	N	N	X	N	N	X	E	E
Acrylates (HEA or HPA)	N	N	N	N	N	N	X	E	E
Acrylic Acid	N	N	N	N	N	N	N	N	G
Acrylonitrile	G	X	X	X	X	X	X	G	G
Adipic Acid	N	G	G	G	E	E	G	N	N
Aeroshell 7A. 17 Grease	N	N	G	E	N	N	N	N	N
Air	E	E	E	E	E	E	E	E	E
Air, 300° F	X	X	X	X	N	X	X	N	N
Aircraft Hydraulic Oil AA	N	N	N	E	X	N	X	E	N
Alachlor (Lasso)	E	N	N	N	N	N	N	E	N
Alcohols, Aliphatic	E	G	E	E	E	E	E	E	E
Alcohols, Aromatic	C	X	C	C	X	X	X	E	E
Alkaline Liquid (NOS)	N	N	N	N	E	E	N	E	N
Alk-Tri (Trichloroethylene)	X	N	N	X	X	X	N	E	N
Alkyaryl Polyether Alcohol	N	N	N	N	N	N	N	N	E
Alkyaryl Sulfonate Alkybenzene Sulfonate	E	N	N	E	N	X	N	E	E
Allyll Alcohol	E	G	E	E	E	E	E	E	E
Allyl Bromide	X	X	X	X	X	X	X	G	G
Allyl Chloride	X	X	X	X	X	X	X	G	G
Alpha Methylstyrene	X	X	X	X	X	N	X	G	G
Alpha Olefin Sulfonate	E	N	N	N	N	N	N	N	N
Alum (Ammonium Potassium Sulfate)	E	E	E	E	E	E	E	E	E
Aluminum	E	E	E	E	E	E	E	E	E
Aluminum Acetate	E	E	N	N	N	N	N	N	N
Aluminum Alkyl	X	X	X	X	X	X	X	X	X
Aluminum Bromide	E	E	E	E	E	E	E	E	N
Aluminum Chloride	E	E	E	E	E	E	E	E	E
Aluminum Chlorohydrate Solution (to 50%)	N	N	N	E	E	N	E	E	E
Aluminum Flouride	E	E	E	E	E	E	E	E	E
Aluminum Formate	X	N	N	X	G	X	N	E	E
Aluminum Hydroxide	E	E	E	E	E	G	E	E	E
Aluminum Nitrate	E	E	E	E	E	E	E	E	E

	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMWPE
Aluminum Phosphate	E	E	E	E	E	E	E	E	E
Aluminum Salts	E	E	E	E	E	E	E	N	N
Aluminum Sulfate	G	E	E	E	E	E	E	E	E
Aminobenzene	N	N	N	N	N	N	N	N	G
Aminodimethylbenzene	N	N	N	N	N	N	N	N	N
Aminoethanol	G	N	N	G	E	G	N	E	E
Aminoethylethanolamine	N	N	N	N	E	N	G	G	E
Ammonia, Anhydrous	E	C	E	G	E	G	E	E	E
Ammonia Cupric Sulfate	X	N	N	E	E	E	E	E	E
Ammonia, Liquid	G	G	E	E	E	E	E	E	E
Ammonia, in Water	G	G	G	G	G	G	E	E	E
Ammonium Acetate	E	E	G	E	E	E	E	E	E
Ammonium Bicarbonate	E	N	N	N	N	N	N	N	N
Ammonium Bisulfate (50%)	N	N	N	N	G	N	G	G	G
Ammonium Carbonate	E	E	E	C	E	E	E	E	E
Ammonium Chloride	E	E	E	E	E	E	E	E	E
Ammonium Flouride	E	N	N	N	N	N	N	N	N
Ammonium Hydroxide	G	G	E	G	E	G	E	E	E
Ammonium Metaphosphate	E	E	E	E	E	E	E	E	E
Ammonium Nitrate	G	E	E	E	E	E	E	E	E
Ammonium Nitrite	E	E	E	E	E	E	E	E	E
Ammonium Persulfate	E	X	E	X	E	E	G	E	E
Ammonium Phosphate	E	E	E	E	E	E	E	E	E
Ammonium Sulfate	E	E	E	E	E	E	E	E	E
Ammonium Sulfide	E	E	E	E	E	E	E	E	E
Ammonium Sulfite	E	E	E	E	E	E	E	E	E
Ammonium Thiocyanate	E	E	E	E	E	E	E	E	E
Ammonium Thiosulfate	E	E	E	E	E	E	E	E	E
Amyl Acetate	C	X	X	X	G	X	G	X	X
Amyl Acetone	X	X	X	X	G	X	G	E	E
Amyl Alcohol	E	E	E	E	E	E	E	E	E
Amylamine	C	G	X	C	G	C	X	E	E
Amylbenzene	X	X	G	G	X	N	X	G	G
Amyl Borate	X	X	C	E	E	C	X	E	E
Amyl Chloride	X	X	X	X	X	X	X	E	E
Amyl Chloronapthalene	X	X	X	G	X	X	X	E	E
Amyl Napthalene	X	X	X	X	X	X	X	E	E
Amyl Oleate	X	X	X	X	G	X	G	E	E
Amyl Phenol	X	X	X	X	X	X	X	E	E
Amyl Phthalate	X	N	N	X	E	X	N	E	E
Anethole	X	X	X	X	X	X	X	G	G
Anhydrous Ammonia	X	X	X	X	X	X	X	X	X
Aniline	X	X	X	X	E	X	C	E	E
Aniline Dyes	C	C	C	C	G	C	G	E	E
Aniline Hydrochloride	E	C	X	C	C	X	G	E	E
Animal Fats	X	X	G	E	G	F	C	E	E
Animal Gelatin	N	N	E	E	N	N	N	N	E
Animal Grease	X	X	G	G	C	C	G	E	E
Animal Oils	X	X	X	E	G	X	C	E	E
Ansul Ether	X	X	X	C	C	X	C	E	E
Antifreeze (Ethylene Glycol)	E	E	E	E	E	E	E	E	E
Antimony Trichloride	X	X	G	G	E	G	G	E	G
Ant Oil (Furfural)	X	X	G	X	X	G	X	E	N
Antimony Pentachloride	X	X	X	X	C	X	C	G	G
Antimony Salts	N	N	N	G	E	N	E	E	N
Aqua Ammonia	G	G	G	G	G	E	E	E	E
Aqua Regia	X	X	X	X	X	C	C	X	G

E - Excellent • G - Good • F - Fair • C - Acceptable • X - Unsatisfactory • N - No Data

CHEMICAL, OIL & SOLVENT RESISTANCE TABLE - RUBBER HOSE

	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMWPE
Argon	X	X	X	C	G	X	E	N	N
Arguad	E	E	E	E	E	E	E	E	E
Aromatic Hydrocarbons	X	X	X	C	X	X	X	E	E
Aromatic Tar	X	N	N	X	X	X	X	E	E
Arsenic Acid	E	E	E	E	E	E	E	E	E
Arsenic Chloride	X	X	E	C	X	X	G	X	X
Arsenic Trichloride	X	X	E	C	X	X	G	X	X
Asphalt	X	X	G	E	X	X	G	G	G
ASTM Fuel A	X	X	E	E	X	G	X	N	N
ASTM Fuel B	X	X	X	E	X	X	X	N	N
ASTM Fuel C	X	X	X	G	X	X	X	N	N
ASTM Oil No. 1	X	X	E	E	X	G	X	E	E
ASTM Oil No. 2	X	X	G	E	X	F	X	E	E
ASTM Oil No. 3	X	X	G	E	X	F	X	E	E
ASTM Oil No. 4	X	X	X	G	X	X	X	N	N
Automatic Trans. Fluid	X	X	G	E	X	C	X	N	N
Aviation Gasoline	X	X	C	E	X	X	X	E	E
Baltic Types 100, 150, 200, 300, 500	N	N	N	E	X	N	X	E	N
Bardol B	X	X	X	X	X	X	X	E	N
Barium Carbonate	E	E	E	E	E	E	E	E	E
Barium Chloride	E	E	E	E	E	E	E	E	E
Barium Hydroxide	E	E	E	E	E	E	E	E	E
Barium Sulfate	E	E	E	E	E	E	E	E	E
Barium Sulfide	E	E	E	E	E	E	E	E	E
BBP (Butyl Benzyl Phthalate)	X	N	N	X	E	X	N	N	N
Beer	E	E	G	C	E	E	G	N	N
Beet Sugar Liquors	E	E	E	E	E	E	E	E	E
Bellows 80-20 Hydraulic Oil	N	N	N	E	X	N	X	E	N
Benzaldehyde	X	N	N	X	G	X	G	E	E
Benzal Chloride	N	N	N	X	G	N	N	E	E
Benzene (Benzol)	X	X	X	X	X	X	X	E	G
Benzene Sulfonic Acid	X	X	X	N	G	G	N	E	E
Benzidine	E	X	X	G	X	N	X	G	N
Benzine	X	X	G	E	X	X	X	E	E
Benzene Solvent (Ligroin)	X	N	N	E	X	X	X	E	E
Benzoic Acid	G	X	E	X	E	G	G	E	E
Benzoic Aldehyde	X	X	X	X	X	X	X	E	E
Benzophenone	E	N	N	N	N	N	N	E	N
Benzotrichloride	X	X	X	X	X	X	X	G	G
Benzoyl Chloride	X	X	X	X	X	X	X	G	G
Benzyl Acetate	X	X	X	X	G	G	G	E	E
Benzyl Alcohol	G	G	C	X	G	F	G	E	E
Benzyl Benzoate	N	N	N	N	G	N	G	E	N
Benzyl Chloride	X	X	X	X	C	X	X	E	E
Bichromate of Soda (Sodium Dichromate)	X	X	G	X	E	G	C	E	E
Bismuth Carbonate	E	N	X	N	N	N	N	N	N
Bisphenol A	E	N	N	N	N	N	N	N	N
Bitumastic	X	X	G	G	X	X	X	N	X
Black Sulfate Liquor	G	G	E	G	E	G	E	E	E
Blast Furnace Gas	X	X	G	C	C	G	C	E	E
Bleach	X	X	C	X	X	F	G	E	E
Borax Solution	G	G	E	C	E	E	E	E	E
Bordeaux Mixture	G	G	E	E	E	E	E	E	E
Boric Acid	E	E	E	E	E	E	E	E	E
Brake Fluid (HD-557)	N	E	G	C	G	G	E	N	N
Brine	E	E	E	E	E	E	E	E	E

	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMWPE
Bromine	X	X	X	X	X	C	X	X	X
Bromine Water	X	X	G	C	C	E	C	E	E
Bromobenzene	X	X	X	X	X	X	X	C	C
Bromochloroethane	X	X	N	N	X	X	X	X	X
Bromochloromethane	X	X	X	X	X	X	X	X	X
Bromotoluene	X	X	N	N	X	N	X	N	N
Bubble Bath Compounds	N	N	N	N	N	N	N	N	E
Bunker Oil	X	X	G	E	X	X	X	E	E
Butadiene	X	X	F	X	X	C	X	F	F
Butandiol (Butylene Glycol)	N	N	N	N	N	N	N	E	G
Butane	X	X	E	E	E	G	X	E	N
Butanoic Acid	N	N	N	N	N	N	N	N	N
Butanol	E	E	E	E	E	E	E	E	E
Butraldehyde (Butanal)	X	X	X	X	X	X	X	G	N
Butter (Non FDA)	C	C	G	E	E	E	G	E	E
Butyl Acetate	X	X	X	X	G	X	C	G	G
Butyl Acetoacetate	X	N	N	X	X	X	N	E	E
Butyl Acrylate	X	X	X	X	X	X	X	G	G
Butyl Alcohol	E	E	E	E	E	E	E	E	E
Butyl Aldehyde	X	N	N	X	X	X	X	E	E
Butylamine	G	C	X	C	C	C	C	E	E
Butyl Benzene	X	X	X	X	X	X	X	E	E
Butyl Benzyl Phthalate (BBP)	X	N	N	X	E	X	N	N	N
Butyl Bromide	X	X	X	X	X	X	X	G	G
Butyl Butyrate	X	X	X	X	C	X	G	G	G
Butyl Carbitol	X	X	G	G	E	E	E	E	E
Butyl Cellosolve	X	X	G	G	E	G	E	E	E
Butyl Chloride	X	X	X	X	C	X	C	G	G
Butylate	N	N	N	N	N	N	E	N	E
Butylene	X	X	G	G	C	G	C	E	E
Butyl Ether	X	X	G	G	C	G	C	E	E
Butyl Ethyl Acetaldehyde	X	X	X	X	C	X	X	E	E
Butyl Ethyl Ether	X	X	X	X	C	G	C	E	E
Butyl Formate	X	N	X	X	N	N	N	N	N
Butyl Mercaptan (2-Methyl - 2 Butanathiol)	X	X	N	X	X	N	X	E	N
Butyl Oleate	X	X	X	X	G	X	G	E	E
Butyl "Oxiol" tm for EG Monobutyl Ether	N	N	N	N	N	N	E	E	N
Butyl Phthalate	X	X	X	X	C	X	C	E	E
Butyl Stearate	X	X	X	G	C	X	C	E	E
Butylene Glycol	N	N	N	N	N	N	N	E	G
Butyraldehyde	X	N	N	X	G	X	X	E	E
Butyric Acid	G	G	X	N	G	X	G	E	E
Butyric Anhydride	C	X	X	C	C	G	C	E	E
Cadmium Acetate	X	N	N	X	G	N	N	N	N
Calcine Liquor (Radioactive Waste)	N	N	N	E	E	N	E	E	N
Calcium Acetate	C	X	X	X	E	X	E	E	E
Calcium Aluminate	E	N	E	E	E	E	N	N	N
Calcium Aresenate	N	N	N	N	N	N	N	E	N
Calcium Bisulfate	E	E	E	E	E	E	E	E	E
Calcium Bisulfide	G	G	E	E	E	E	N	E	N
Calcium Bisufite	C	E	E	E	G	E	C	E	E
Calcium Bromide Solution	N	N	N	N	N	N	N	E	E
Calcium Bichromate	N	N	N	N	E	F	N	G	F
Calcium Carbonate	E	E	E	E	E	E	E	E	E
Calcium Chlorate	G	G	E	E	G	E	G	E	N
Calcium Chloride	E	E	E	E	E	E	E	E	E
Calcium Hydroxide	E	G	E	E	E	G	E	E	E

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CHEMICAL, OIL & SOLVENT RESISTANCE TABLE - RUBBER HOSE

	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMWPE
Calcium Hydrosulfide	G	G	E	E	E	E	N	E	N
Calcium Hypochlorite	X	X	X	X	G	F	G	G	G
Calcium Metasilicate	E	G	N	G	G	G	N	N	N
Calcium Nitrate	E	E	E	E	E	E	E	E	E
Calcium Silicate	E	G	N	G	G	G	N	N	N
Calcium Stearate	E	N	N	N	N	N	N	N	N
Calcium Sulfate	E	E	E	E	E	E	E	E	E
Calcium Sulfhydrate	E	E	E	E	E	E	E	E	E
Calcium Sulfide	E	E	E	E	E	E	E	E	E
Calcium Sulfite	E	E	E	E	E	E	E	E	E
Caliche Liquor (Crude Sodium Nitrate)	E	E	G	C	E	E	E	E	E
Camphene (Liquid above 115° F)	N	N	N	N	N	X	X	N	N
Cane Sugar Liquors (Non F.D.A.)	E	E	E	E	E	E	E	E	E
Caproic Acid	N	N	N	N	N	N	G	E	E
Caprolactam	E	N	N	N	N	N	N	N	N
Caprylic Acid	X	N	N	X	G	G	N	E	E
Carbamates	X	X	X	X	X	X	X	E	N
Carbitol	X	X	G	G	E	G	G	E	E
Carbitol Acetate	X	X	X	X	G	X	G	E	E
Carbolic Acid (Phenol)	X	X	C	X	G	C	C	E	E
Carbon Bisulfide (See Carbon Disulfide)	N	N	N	N	N	N	N	N	N
Carbon Dioxide	E	E	E	E	E	E	E	E	E
Carbon Disulfide	X	X	X	X	X	X	X	E	C
Carbonic Acid	E	E	E	E	E	E	E	E	E
Carbon Monoxide	E	E	E	E	E	E	E	E	E
Carbon Tetrachloride	X	X	X	C	G	X	G	C	C
Carbon Tetrafluoride	X	X	X	C	X	X	X	C	C
Carbonyl Chloride	X	X	X	X	E	X	X	X	X
Casein	N	N	N	N	E	N	N	N	N
Castor Oil	C	X	G	E	G	C	G	E	E
Caustic Potash (Potassium Hydroxide)	E	G	G	E	E	E	E	E	E
Caustic Soda (Sodium Hydroxide)	E	G	G	G	E	G	E	E	E
Cellosize	X	N	N	X	E	E	E	E	E
Cellsolve	X	X	E	G	G	G	G	E	E
Cellulose Acetate	C	X	C	X	G	C	G	G	G
Cellulube	C	X	X	X	G	X	E	E	E
Cement, Portland	N	N	N	N	E	N	N	N	E
China Wood Oil (Tung Oil)	X	X	G	E	G	G	G	E	E
Chlordane	N	N	X	X	N	X	X	E	N
Chlorinated Napthalene	X	X	X	X	X	X	N	N	N
Chlorinated Solvents	X	X	N	N	X	X	X	X	X
Chlorine Dioxide	X	X	X	X	X	C	X	G	G
Chlorine Gas (Dry)	C	C	X	C	C	G	C	G	G
Chlorine Trifluoride	N	N	N	N	N	N	X	N	N
Chlorine, Water Solutions (2%)	C	X	X	X	C	G	C	E	E
Chloroacetic Acid	G	X	X	X	C	X	C	E	E
Chloroacetone	X	X	X	X	G	G	X	E	E
Chlorobenzene	X	X	X	X	X	X	X	G	G
Chlorobenzol	X	N	N	X	X	X	X	E	E
Chlorobromomethane	X	X	X	X	X	X	X	G	X
Chlorobutane	X	X	X	X	X	X	X	G	G
Chlorobutadiene	X	X	X	X	X	X	X	G	G
Chloroethylbenzene	X	X	X	X	X	X	X	E	E

	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMWPE
Chloroform	X	X	X	X	X	X	X	G	G
Chloronapthalene	X	X	X	X	X	X	X	N	N
Chloronated Hydrocarbons	X	X	X	X	X	X	X	G	G
Chloropentane	X	X	C	X	X	X	X	E	E
Chlorophenol	X	X	X	X	X	X	X	G	G
Chloropropanone	X	X	X	X	C	X	C	G	G
Chlorosulfonic Acid	X	X	X	X	X	C	X	G	G
Chlorothene (Trichloroethane)	X	X	X	X	X	X	X	G	G
Chlorotoluene	X	X	X	X	X	X	X	G	G
Chlorox	G	G	G	N	G	G	N	G	E
Chlorpyrifos	N	N	N	N	N	N	X	N	N
Chrome Alum	E	E	E	E	E	E	E	N	N
Chrome Plating Solutions	X	X	X	X	X	X	G	N	N
Chromic Acid	X	X	X	X	X	E	C	E	E
Citgo FR Fuels	N	N	X	E	E	N	N	E	N
Citric Acid	E	E	G	G	E	E	E	E	E
Coal Oil	X	X	G	E	X	X	X	E	E
Coal Tar	X	X	G	E	X	G	G	E	E
Coal Tar Naptha	X	X	F	E	X	X	X	E	E
Coal Tar Pitch	X	X	G	G	X	G	X	N	N
Cobalt Chloride	E	E	E	E	E	E	E	E	E
Coconut Oil	X	X	G	E	G	G	C	E	E
Cod Liver Oil	X	X	G	E	E	G	E	E	E
Coke Oven Gas	X	X	X	X	F	X	X	E	E
Copper Arsenate	E	E	E	E	E	E	E	E	E
Copper Chloride	E	E	E	E	E	E	E	E	E
Copper Cyanide	E	E	E	E	E	E	E	E	E
Copper Hydrate	X	N	N	G	E	G	N	E	E
Copper Hydroxide	F	G	N	N	E	G	N	E	E
Copper Nitrate	E	E	E	E	E	E	E	E	E
Copper Nitrite	E	E	E	E	E	E	E	E	E
Copper Sulphate	F	E	E	E	E	E	E	E	E
Copper Sulphide	C	E	E	E	E	E	E	E	E
Corn Oil	X	X	C	E	E	G	C	E	E
Corn Syrup	G	G	G	G	G	G	G	E	N
Cottonseed Oil	X	X	C	C	C	G	C	C	G
Creosols	X	N	N	X	E	X	X	E	E
Creosote	X	N	N	X	X	X	X	E	E
Creosote (Wood)	X	X	C	G	X	C	X	E	E
Creosote (Coal Tar)	X	X	C	G	X	C	X	E	E
Cresols	X	X	C	C	X	C	X	E	E
Cresylic Acid	X	X	C	C	X	C	X	E	E
Crotonaldehyde	X	X	X	X	E	X	C	E	E
Crotonic Acid	X	X	N	G	E	N	G	E	E
Crude Oil	X	X	F	E	X	X	X	E	E
Crude Wax	N	N	N	G	G	N	N	G	N
Cyrolite	X	X	G	E	X	X	X	N	N
Cumene	X	X	X	C	C	X	X	E	E
Cupric Arsenate	G	G	N	N	N	G	N	E	N
Cupric Carbonate	C	C	G	G	E	G	E	E	E
Cupric Chloride	C	C	G	E	E	E	E	E	E
Cupric Cyanide	G	G	G	G	G	G	G	E	N
Cupric Hydroxide	N	N	N	N	N	N	N	N	N
Cupric Nitrate	C	C	G	E	E	E	E	E	E
Cupric Nitrite	C	C	G	E	E	E	E	E	E
Cupric Sulfate	F	E	G	E	E	E	E	E	E

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CHEMICAL, OIL & SOLVENT RESISTANCE TABLE - RUBBER HOSE

	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMWPE
Cutting Oil	X	X	G	E	X	X	X	G	N
Cutting Oil (Sulfur Base)	N	N	X	E	N	N	N	N	N
Cutting Oil (Water Solutions)	N	N	X	E	N	N	N	N	N
Cyanisde, Copper	G	G	G	G	G	G	G	E	N
Cyanide Mercuric	G	G	E	G	G	E	G	E	N
Cyanide, Silver	N	N	E	N	N	N	N	E	N
Cyanide, Sodium	E	E	E	E	E	E	E	E	N
Cyclohexane	X	X	X	G	X	X	X	E	E
Cyclohexanol	X	X	G	C	X	X	X	E	E
Cyclohexanone	X	X	X	X	X	X	X	E	E
Cyclohexlamine	N	X	N	N	E	N	E	N	N
Cyclopentane	X	X	G	G	X	X	X	E	E
Cyclopentanol	X	X	N	N	X	X	N	E	E
Cyclopentanone	X	N	N	X	X	X	N	N	N
P-Cymene	X	X	X	C	X	X	X	E	E
DDT in Kerosene	X	X	G	E	F	X	X	E	E
Decaline	X	X	X	X	X	X	X	E	E
Decanal	X	N	N	X	X	X	N	N	N
Decanol	X	N	X	E	X	G	N	N	N
Decane	X	X	X	G	X	X	X	E	E
Decyl Alcohol	X	N	N	E	E	E	E	E	E
Decyl Aldehyde	X	N	N	X	X	X	N	N	N
Decyl Butyl Phthalate	X	N	N	X	E	X	N	E	E
Deicing Fluid	N	N	E	E	E	G	E	E	E
Denatured Alcohol	E	E	E	E	E	E	E	E	E
Detergent, Water Solutions	G	G	G	E	G	G	E	E	E
Developing Fluid (pIctures)	E	G	E	E	E	E	G	N	N
Dextrin	N	N	E	E	X	N	X	X	N
Dextron	N	N	N	E	X	N	X	X	N
DHSO Butylene	X	X	X	G	X	X	X	E	N
Diacetone Alcohol	X	X	G	X	E	G	G	E	E
Diammonium Phosphate	N	N	N	N	N	N	N	N	N
Diamylamine	G	C	E	G	E	C	C	E	E
Diamyl Naphthalene	X	X	N	N	X	X	N	E	N
Diamyl Phenol	X	N	N	X	X	X	X	E	E
Diamylene	X	N	N	X	X	X	N	E	E
Diazonin	E	E	N	N	N	N	E	N	N
Dibenzyl Ether	X	X	X	X	G	X	X	E	E
Dibenzyl Sebacate	C	X	X	X	G	X	G	E	E
Dibromobenzene	X	X	X	X	X	X	X	G	G
Dibromomethane	X	X	X	X	X	X	X	G	G
Dibutyl Ether	X	X	X	X	X	X	C	E	E
Dibutylamine	G	F	G	E	F	F	G	E	E
Dybutylphthalate	X	X	X	X	G	X	E	E	E
Dibutyl Sebacate	X	X	X	X	G	X	G	G	G
Dicalcium Phophate	E	E	E	E	E	E	E	E	E
Dicamba	N	N	N	N	N	N	E	E	E
Dichloroacetic Acid	X	N	N	X	X	X	X	E	E
Dichloroaniline	N	X	X	X	X	N	X	N	N
Dichlorobenzene	X	X	X	X	X	X	X	G	G
Dichlorobenzyl	X	X	X	X	X	X	X	G	N
Dichlorobutane	X	X	X	X	X	X	X	E	E
Dichlorodifluorometh	X	X	E	G	X	X	X	E	E
Dichloroethane	X	X	X	X	C	X	X	E	C
Dichloroethyl Ether	X	X	X	X	X	X	X	E	E
Dichloroethylene	X	X	X	X	C	X	X	E	X
Dichlorohexane	X	X	X	X	X	X	X	E	E

	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMWPE
Dichloroisopropyl Ether	X	X	X	X	X	X	X	E	E
Dichloromethane	X	X	X	X	X	X	X	E	E
Dichloropentane	X	X	X	X	X	X	X	E	E
Dichloropropane	X	X	N	N	X	X	N	E	E
Dichlorotoluene	N	N	N	N	N	N	N	N	N
Dicyclohexylamine	N	N	N	N	N	N	N	N	N
DIDA (Diisodecyl Adipate)	X	N	N	X	E	X	N	N	N
Dieldrin Xylene	X	X	X	X	X	X	X	E	E
Dieidrin in Xylene And Water Spray	X	X	G	G	X	X	X	E	E
Diesel Fuel	X	X	G	E	X	X	X	E	E
Diesel Oil	X	X	G	E	X	C	X	E	E
Diethanol Amine	G	G	G	G	E	F	F	E	E
Diethyl Benzene	X	X	X	X	X	X	X	E	E
Diethyl Carbonal	E	N	N	E	E	E	N	E	E
Diethyl Ether	X	X	C	G	X	X	X	E	E
Diethyl Ketone	F	X	N	N	G	X	N	E	E
Diethylphthalate	X	X	X	X	E	X	G	E	E
Diethyl Oxalate	C	X	X	X	C	X	E	E	E
Diethyl Sebacate	X	X	X	X	E	X	C	E	E
Diethyl Sulfate	X	X	X	X	G	X	G	E	E
Diethyl Sulfide	N	N	N	N	N	N	N	E	N
Diethyl Triamine	G	C	G	G	E	C	G	E	E
Diethylacetaldehyde	N	N	N	N	N	N	N	E	N
Diethylamine	N	N	N	N	N	N	N	N	G
Diethylene Dioxide	X	X	X	X	G	X	G	E	N
Diethylene Glycol	E	E	E	E	E	E	E	E	E
Diethylene Glycol Methyl Ether	N	N	N	N	N	N	E	E	N
Diethylene Glycol Monobutyl Ether	N	N	N	N	N	N	E	E	N
Diethylene Glycol Monobutyl Ether Acetate	N	N	N	N	N	N	E	E	N
Diethylenetriamine	G	G	C	G	E	C	E	E	E
Dihydroxyacetone	N	N	N	N	N	N	E	E	N
Dihydroxydiethyl Ether	E	E	E	E	E	N	E	E	E
Dihydroxyethyl Amine	G	C	G	G	E	C	G	E	E
Dihydroxyethyl Ether	E	E	G	E	E	E	G	E	E
Diisobutylene	X	X	G	E	X	X	X	E	E
Diisobutyl Ketone	X	X	X	X	G	X	G	E	E
Diisobutyl Phenol	E	N	N	N	N	N	N	N	N
Diisocyanate	X	X	X	X	X	X	X	X	X
Diisoctyl Phthalate	X	N	N	X	E	X	E	N	N
Diisoctyl Adipate	X	N	N	X	E	X	N	E	E
Diisodecyl Adipate	X	X	E	X	X	C	E	E	E
Diisodecyl Phthalate	X	X	X	X	E	C	E	E	E
Diisooctyl Adipate	X	X	X	X	E	X	E	E	E
Diisooctyl Phthalate	X	X	X	X	E	C	E	E	E
Diisopropanolamine	G	N	N	G	E	N	N	N	N
Diisopropyl Benzene	X	X	X	C	X	X	X	E	E
Diisopropyl Ether	X	X	X	G	X	X	X	E	E
Diisopropyl Ketone	X	X	X	X	E	X	E	E	E
Diisopropylidene Acetone	X	X	X	X	G	X	G	E	N
Dilauryl Ether	X	X	X	C	X	C	X	E	E
Dimethyl Aniline	X	X	X	X	G	X	X	E	N
Dimethyl Benzene	X	N	N	X	X	X	X	E	E
Dimethyl Carbonal	E	N	N	E	E	E	E	E	E
Dimethyl Ether	X	X	X	X	G	X	E	E	E
Dimethyl Formamide	N	N	N	N	N	N	G	E	N
Dimethyl Ketone	G	F	F	X	E	F	E	E	E

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CHEMICAL, OIL & SOLVENT RESISTANCE TABLE - RUBBER HOSE

	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMWPE
Dimethyl Phenol	X	N	N	X	X	X	X	E	E
Dimethyl Phthalate	X	X	X	X	E	X	G	E	E
Dimethyl Sulfate	X	X	X	X	G	X	X	E	E
Dimethyl Sulfide	X	X	X	X	C	X	X	G	G
Dimethyl Terephthalate	N	X	X	X	X	N	N	N	N
Dimethylamine	G	F	G	G	E	F	E	E	E
Dimethylaminoethanol	N	N	N	N	N	N	G	E	N
Dimethylaniline	X	X	X	X	X	X	C	G	G
Dimethylbenzene	X	X	X	X	X	X	X	E	E
Dimethylcarbinol	G	G	G	E	E	G	E	E	E
Dimethylformamide (DMF)	C	C	C	X	C	C	C	E	E
DMP (Dimethylaminoethyl Phenol)	N	N	N	N	N	N	N	E	N
Dinitrobenzene	X	X	C	X	C	X	C	E	E
Dinitrotoluene	X	X	X	X	X	X	X	E	E
Dioctyl Adipate (DOA)	X	X	X	X	E	X	G	E	E
Dioctylamine	G	G	X	G	E	C	G	E	E
Dioctyl Phosphite	N	N	N	N	N	N	X	E	N
DIoctyl Phthalate (DOP)	X	X	X	X	G	X	G	E	E
Dioctyl Sebacate (DOS)	X	X	X	X	G	X	G	E	E
Dioxane	X	X	X	X	G	X	G	E	E
Dioxolane	X	X	X	X	C	X	G	E	E
Dipentene	X	X	N	X	N	N	X	G	N
Dipentene (Limonene)	X	X	X	X	C	X	X	E	E
Diphenyl (Biphenyl)	X	X	X	X	X	X	X	E	E
Diphenyl Oxide (Phenyl Ether)	X	X	X	X	X	C	X	E	E
Diphenyl Phthalate	X	N	N	X	E	X	N	E	E
Dipropylene Glycol	E	N	N	E	E	N	N	E	E
Dipropyl Ketone	X	X	X	X	G	X	G	E	E
Dipropylamine	G	G	G	G	E	C	E	E	E
Dirco Oils	N	N	N	E	X	N	X	E	N
Disodium Phosphate	E	E	E	E	E	E	E	E	E
Distillate Fuel Oil	N	N	N	N	N	N	X	G	N
Divinyl Benzene	X	X	X	X	X	X	X	E	E
Dodecyl Benzene	X	X	X	X	X	X	X	E	E
Dodecylphenol	N	N	N	N	N	N	E	E	N
Dodecyl Toluene	X	X	X	X	X	X	X	E	E
Dolomite	N	N	E	N	N	E	G	N	N
Dowfume W 40, 100%	X	X	C	X	X	C	C	G	G
Dow-Per (perchloroethylene)	X	X	X	C	X	X	X	E	E
Dowtherm Oil, A and E	X	X	X	X	X	C	X	E	E
Dowtherm S. R. I.	E	E	E	E	E	E	E	E	E
Dry Cleaning Fluids	X	X	X	C	X	X	X	E	G
Duro Oils	N	N	N	E	X	N	X	E	N
EDTA (Ethylenediaminetetraacetic Acid)	N	N	N	N	N	N	E	E	N
Emulsion (Oil in Water)	N	N	N	N	N	N	E	E	E
Enamels	N	N	N	N	N	N	X	E	N
Epichlorohydrin	X	X	X	X	C	C	G	G	G
Epoxy Resin	N	N	E	N	G	N	E	N	N
Essential Oils	X	X	G	E	N	N	X	G	N
Ethanoic Acid	N	N	N	N	N	N	N	N	N
Ethanol (Grain Alcohol)	X	X	X	X	X	X	X	N	G
Ethanolamine	G	G	G	G	E	C	E	C	E
Ethers	X	X	X	X	F	F	C	E	E
Ethyl Acetate	X	X	X	X	G	X	C	E	E
Ethyl Acetoacetate	X	X	X	X	G	X	G	E	E
Ethyl Acrylate	X	X	X	X	C	X	X	G	G
Ethyl Alcohol	X	X	X	X	X	X	X	N	G

	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMWPE
Ethyl Aldehyde	F	N	N	N	E	E	N	E	E
Ethyl Aluminum Dichloride 90°F	X	N	N	X	X	X	N	N	N
Ethyl Benzene	X	X	X	F	X	X	X	G	G
Ethyl Benzoate	X	X	C	G	G	C	G	E	E
Ethyl Bromide	X	X	X	X	X	X	X	G	N
Ethyl Butanol	E	E	E	E	E	E	E	E	E
Ethyl Butyrate	X	X	X	X	G	N	N	E	N
Ethyl Butyl Acetate	X	N	N	X	E	G	N	E	E
Ethyl Butyl Alcohol	E	E	E	E	E	E	E	E	E
Ethyl Butyl Amine	G	C	G	G	E	C	G	E	E
Ethyl Butyl Ketone	X	X	X	X	G	X	G	E	E
Ethyl Butyraldehyde	X	N	N	X	G	X	N	E	E
Ethyl Cellulose	G	G	G	G	G	G	G	E	E
Ethyl Chloride	F	F	F	F	X	X	X	E	G
Ethyl Chloroformate	N	N	N	X	N	N	X	G	G
Ethyl Dichloride	X	X	X	X	X	X	X	G	G
Ethylene	X	X	G	E	X	C	X	E	E
Ethyl Ether	X	X	X	C	C	X	X	E	E
Ethyl Ether Acetate	N	N	N	X	N	N	G	E	N
Ethyl Formate	X	N	N	X	G	X	G	E	E
Ethyl Hexoic Acid	X	N	N	X	X	G	N	E	E
Ethyl Hexyl Acetate	X	N	N	X	E	G	N	E	E
Ethyl Iodine	X	N	X	X	X	X	X	N	N
Ethyl Isobutyl Ether	X	N	N	G	X	G	X	E	E
Ethyl Isobutyrate	X	N	X	X	X	N	X	E	N
Ethyl Mercaptan	X	X	X	X	X	X	X	E	N
Ethyl Pentachlorobenzene	X	X	X	X	X	X	X	E	N
Ethyl Phthalate	X	X	N	X	G	N	N	E	N
Ethyl Propionate	X	N	X	X	X	N	X	N	N
Ethyl Silicate	G	G	E	E	N	N	G	E	N
Ethylamine	F	F	N	N	G	F	N	N	E
Ethylbutanol	N	N	E	E	E	G	E	E	E
Ethylene Bromide	X	X	X	X	X	X	X	G	G
Ethylene Chloride	X	X	X	X	X	X	X	G	G
Ethylene Chlorohydrin	N	N	X	X	G	N	X	E	N
Ethylene Diamine	G	G	E	E	E	F	E	E	E
Ethylene Dibromide	X	X	X	X	X	X	X	G	F
Ethylene Dichloride	X	X	X	X	X	X	X	G	G
Ethylene Glycol	E	E	E	E	E	E	E	E	E
Ethylene Glycol Monoethylether	N	N	N	N	N	N	E	E	N
Ethylene Glycol Monoethylether Acetate	N	N	N	N	N	N	E	E	N
Ethylene Glycol Monomethyl Ether	N	N	N	N	N	N	E	E	N
Ethylene Glycol N-Butyl Ether	N	N	N	N	N	N	E	E	N
Ethylene Oxide	X	X	X	X	X	X	C	C	C
Ethylenediaminetetraacetic Acid (EDTA)	N	N	N	N	N	N	E	E	N
Ethylene Trichloride (trichloroethylene)	X	X	X	X	C	X	X	G	G
Ethyl Formate	X	X	X	X	G	X	C	E	E
Ethyl Hexanol	E	E	E	E	E	E	E	E	E
Ethyl Methyl Ketone	C	X	X	X	G	X	G	E	E
Ethyl Oxalate	E	E	X	X	E	X	G	E	E
Ethyl Propyl Ether	X	X	X	X	X	X	X	E	E
Ethyl Propyl Ketone	X	X	X	X	G	X	G	E	E
Ethyl Sulfate	X	X	X	X	G	X	G	E	E
Ethylhexanediol	N	N	N	N	N	N	G	E	N
Ethylhexoic Acid	N	N	N	N	N	N	G	E	N
Ethylhexyl Acetate	N	N	X	X	N	X	E	E	N
Ethylhexyl Acrylate	N	N	N	X	N	N	N	G	N

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CHEMICAL, OIL & SOLVENT RESISTANCE TABLE - RUBBER HOSE

	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMWPE
Ethylhexyl Alcohol	E	E	E	N	E	N	E	E	E
Ethylhexyl Phosphorodieth	X	N	N	E	X	X	X	X	N
EX. TRI (Trichloroethylene)	X	X	X	C	X	X	X	G	G
Fatty Acids	X	X	C	C	X	X	X	E	E
Fatty Alcohol, Blend	E	E	E	E	E	N	E	E	E
Fatty Petroleum Alcohol	N	N	N	E	E	N	E	E	E
Ferric Bromide	E	N	N	N	N	N	N	N	N
Ferric Chloride	E	E	E	E	E	E	E	E	E
Ferric Nitrate	N	N	G	G	G	G	G	E	N
Ferric Sulfate	E	E	E	E	E	E	E	E	E
Ferrous Acetate	X	X	X	X	E	X	G	E	E
Ferrous Ammonium Sulfate	E	E	E	E	E	E	E	E	E
Ferrous Chloride	E	E	E	E	E	E	E	E	E
Ferrous Hydroxide	G	C	E	G	E	G	E	E	E
Ferrous Nitrate	N	N	G	G	G	G	G	E	N
Ferrous Sulfate	E	E	E	E	E	E	E	E	E
Fertilizer (Liquid Manure)	E	E	E	E	E	E	E	E	E
Fire-Resistant Hydra-Fluid (Texaco)	N	N	N	E	X	N	X	E	N
Fish Oil	X	X	E	E	E	E	E	E	E
Fluoroboric Acid	E	C	G	E	E	E	E	E	E
Fluorine	X	X	X	X	X	X	X	X	X
Fluosilicic Acid	E	C	G	E	E	E	E	E	E
Formaldehyde	C	C	G	G	E	C	G	E	E
Formalin (37-50% HCHO w/15% MeOH)	X	X	G	G	G	G	E	E	N
Formamide	E	E	E	E	E	E	E	E	E
Formic Acid	G	G	C	X	E	F	E	C	E
FR Fluid D	N	N	N	E	X	N	X	E	N
Freon So 2	N	N	E	N	N	N	E	N	N
Freon 11	X	X	G	E	X	E	X	E	E
Freon 12	X	X	G	G	X	X	X	G	G
Freon13	E	E	E	E	E	E	E	E	E
Freon 21	X	X	G	X	X	X	X	E	E
Freon 22	X	X	X	E	E	X	E	E	E
Freon 31	G	G	E	X	E	G	E	E	E
Freon 32	E	E	E	E	E	E	E	E	E
Freon 112	X	X	G	G	X	G	X	E	E
Freon 113	C	G	E	E	X	E	X	E	E
Freon 114	E	E	E	E	E	E	E	E	E
Freon 115	E	E	E	E	E	E	E	E	E
Freon 142b	E	E	E	E	E	E	E	E	E
Freon 152b	E	E	E	E	E	C	E	E	E
Freon 218	E	E	E	E	E	E	E	E	E
Freon C316	E	E	E	E	E	E	E	E	E
Freon C318	E	E	E	E	E	E	E	E	E
Freon 1381	E	E	E	E	E	E	E	E	E
Freon 114B2	X	C	E	G	X	E	X	E	E
Freon 502	E	E	E	G	E	E	E	E	E
Freon TF	C	G	E	E	E	E	E	E	E
Freon T-WD602	C	G	G	E	E	G	G	E	E
Freon TMC	G	C	G	G	G	G	G	E	E
Freon T-P35	E	E	E	E	E	E	E	E	E
Freon TA	E	E	E	E	E	E	E	E	E
Freon TC	X	G	E	E	E	E	G	E	E
Freon BF	X	X	G	G	X	G	X	E	E
Freon MF	X	G	C	E	X	G	X	E	E
Fuel A (ASTM)	X	X	G	E	X	F	X	E	E
Fuel B (ASTM)	X	X	F	E	X	X	X	G	G

	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMWPE
Fuel C (ASTM)	X	X	C	G	X	X	X	G	G
Fuel Oil	X	X	G	E	X	E	X	E	E
Fumaric Acid	E	E	G	E	X	G	X	E	E
Furan	X	X	X	X	C	X	C	E	E
Furfural	X	X	C	X	G	G	G	E	E
Furfuryl Alcohol	X	X	C	X	C	C	C	E	E
Fyrguard 150, 200	N	N	N	E	E	N	E	E	N
Fyrquel 15R & O, 220 R&O, 550R&O	N	N	N	E	E	N	E	E	N
Fyrquel 90, 150, 220, 550, 1000	N	N	N	E	E	N	E	E	N
Gallic Acid	E	E	G	G	G	G	G	E	E
Gasohol	X	X	G	G	X	X	X	G	E
Gasoline (oxgenated-blended with MTBE)	X	X	G	G	X	X	X	G	E
Gasoline - Regular	X	X	E	E	X	C	X	E	E
Gasoline - Hi-Test	X	X	G	E	X	X	X	E	E
Gasoline - Lead Free	X	X	G	G	X	X	X	E	E
Gasoline (White)	X	X	G	G	X	X	X	G	N
Gas, Coal	N	N	N	N	N	N	N	N	N
Gas, High Octane	X	X	G	E	X	X	X	E	E
Gelatin	E	E	E	E	E	E	E	E	E
Glacial Acetic Acid	N	N	X	N	X	N	G	E	E
Glauber's salt	E	E	N	N	N	N	E	N	N
Gluconic Acid	X	X	C	C	C	G	C	E	E
Glucose	E	E	G	G	E	E	G	E	G
Glue	E	E	E	E	E	E	E	E	E
Glycerine (Glycerol)	E	E	E	E	E	E	E	E	E
Glycerol Monolaurate	N	N	N	N	E	N	E	E	E
Glycol FR Fluids	N	N	N	E	E	N	E	N	N
Glycols	E	E	E	E	E	E	E	E	E
Glyphosate	N	N	N	N	N	N	E	N	E
Graffinite	X	N	N	E	X	X	X	X	N
Graphite	E	N	N	N	N	N	N	N	E
Grease	X	X	X	X	F	X	E	G	E
Green Sulfate Liquor	E	E	G	E	E	E	E	E	E
Halium	E	E	E	E	E	E	E	N	N
Halowax Oil	X	X	X	X	X	X	X	E	E
Heptachlor in Petroleum Solvents	X	X	G	G	X	X	X	E	E
Heptachlor in Petroleum Solvents Water Spray	X	X	G	G	X	X	X	E	E
Heptanal (Heptaldehyde)	X	X	X	X	X	X	G	E	E
Heptane	X	X	E	E	X	G	X	E	E
Heptane Carboxylic Acid	X	N	N	X	X	G	N	E	E
Heptanol	E	E	E	E	E	E	E	E	E
Hexaldehyde	N	N	N	N	N	N	E	E	E
Hexane	X	X	E	E	X	F	X	E	E
Hexanol	E	E	E	E	E	E	E	E	E
Hexene	X	X	G	G	X	G	X	E	E
Hexylamine	G	C	G	G	G	C	G	E	E
Hexylene	X	X	G	E	X	X	C	G	G
Hexylene Glycol	E	E	E	E	E	E	E	E	E
Hexyl Methyl Ketone	X	X	X	X	G	X	G	E	E
Hi-Tri (Trichloroethylene)	X	X	X	C	X	X	X	G	G
Honey	E	N	E	E	N	N	E	N	N
Houghto-Safe 1055, 1110, 1115, 1120, 1130	N	N	N	X	E	N	E	E	N
Houghto-Safe 271, 416, 520, 616 & 620	N	N	N	E	E	N	E	E	N
Houghto-Safe 5046	N	N	N	E	E	N	X	E	N
Houghto-Safe 625, 640, & 525 under 100°F	N	N	N	E	E	N	E	E	N
Hy-Chock Oil	N	N	N	E	N	N	N	E	N

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	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMWPE
Hydrafluid 760 (Texaco & Houghton)	N	N	N	E	X	N	X	E	N
Hydrafluid AZR&O, A, B, AA, C	N	N	N	E	X	N	X	E	N
Hydrasol A (Textile Drying)	N	N	N	E	X	N	X	E	N
Hydraulic Fluid (Petroleum)	X	X	G	E	X	G	X	E	E
Hydraulic Fluid	X	X	X	X	E	X	E	E	E
Phosphate Ester Based									
Hydraulic Fluid	G	G	E	E	E	E	E	E	E
Poly Alkylene Glycol Base									
Hydraulic & Motor Oil	X	X	C	E	X	G	X	E	E
Hydrazine	X	X	X	X	G	X	G	E	N
Hydrazine Hydrate	X	X	X	X	G	X	G	E	N
Hydrazine Solution	X	X	X	X	G	X	G	E	N
Hydrobromic Acid	E	X	X	F	E	E	G	E	E
Hydrochloric Acid 37%	E	X	X	X	F	X	X	E	E
Hydrochloric Acid 50%	E	C	X	X	G	E	C	E	E
Hydrochloric Acid 100%	G	C	X	X	C	G	C	E	E
Hydrocianic Acid	G	F	E	F	E	E	C	E	E
Hydro-Drive Oil (Houghton)	N	N	N	E	X	N	X	N	N
Hydrofluoric Acid	X	X	X	X	E	E	X	C	E
Hydrogen Chloride Anhydrous	N	N	N	N	N	N	N	N	N
Hydrogen Bromide Liquid	X	X	N	X	X	N	E	N	N
Hydrogen Dioxide 10%	X	X	N	N	F	N	N	N	G
Hydrogen Fluoride	X	X	N	X	G	N	E	N	N
Hydrogen Gas	X	X	N	X	G	N	E	N	N
Hydrogen peroxide 3%	E	C	G	G	E	E	G	E	E
Hydrogen Peroxide 10%	X	X	C	X	C	C	C	E	E
Hydrogen Peroxide 30%	X	X	X	X	X	X	C	E	E
Hydrogen Peroxide 90%	X	X	X	X	X	X	C	G	G
Hydrogen Sulfide	X	X	E	X	E	G	E	E	E
Hydrolube	N	N	G	E	G	N	E	N	E
Hydroquinine	G	G	X	X	G	C	G	E	E
Hydroxyacetic Acid Solution	N	N	N	N	N	N	G	E	E
Hydroxyethyl Acrylate (HEA)	N	N	N	N	N	N	X	E	E
Hydroxyethyl Acrylate Acid (HEA Aci	N	N	N	N	N	N	X	E	E
Hydroxypropyl Acrylate Acid	N	N	N	N	N	N	X	E	E
Hylene	X	X	X	X	G	X	G	N	N
Hypochlrous Acid	G	G	G	X	G	E	G	E	E
Ink Oil (Linseed Oil Base)	X	X	G	G	G	G	G	E	E
Insulating Oil	X	X	G	E	X	X	X	E	E
Iodine	X	X	X	X	X	F	X	E	E
Iron Acetate	X	X	X	X	E	X	G	E	E
Iron Hydroxide	C	C	E	G	E	G	G	E	E
Iron Salts	E	E	E	E	E	E	E	E	E
Iron Sulfate	E	E	E	E	E	E	E	E	E
Iron Sulfide	E	E	E	E	E	E	E	E	E
Isoamyl Acetate	X	X	X	X	E	X	G	E	E
Isoamyl Chloride	X	X	X	X	C	X	X	G	G
Isoamyl Ether	X	X	X	X	X	X	X	E	E
Isoamyl Phthalate	X	X	X	X	E	X	G	E	E
Isobutane	X	X	E	E	X	X	E	E	E
Isobutanol (Isobutyl Alcohol)	E	E	E	E	E	E	E	E	E
Isobutyl Acetate	X	X	X	X	E	X	G	E	E
Isobutyl Aldehyde	C	X	X	X	G	X	G	E	E
Isobutyl Amine	G	C	X	X	G	C	G	E	E
Isobutyl Bromide	X	X	X	X	X	X	X	G	G
Isobutyl Carbinol	E	E	G	E	E	E	E	E	E
Isobutyl Chloride	X	X	X	X	X	X	X	G	G

	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMWPE
Isobutylene	X	X	X	X	E	X	X	E	E
Isobutyl Ether	X	X	X	X	X	X	X	E	E
Isocyanates	C	X	X	X	G	C	G	G	G
Isooctane	X	X	E	E	X	G	X	E	E
Isooctyl Alcohol	N	N	N	N	N	N	E	E	E
Isooctyl Thioglycolate	N	N	N	N	N	N	G	E	N
Isopentane	X	X	E	E	X	X	X	G	G
Isophorone	N	N	N	X	E	N	E	G	G
Isopropyl Amine	G	X	E	C	G	C	G	E	E
Isopropyl Acetate	X	X	X	X	E	C	G	E	E
Isopropyl Alcohol (Iso-propanol)	E	E	E	E	E	E	E	G	G
Isopropyl Amine	G	X	E	C	G	C	G	E	E
Isopropyl Benzene	X	X	X	X	X	X	X	E	E
Isopropyl Chloride	X	X	X	X	X	X	X	G	G
Isopropyl Ether	X	X	X	C	X	C	X	E	E
Isopropyl Toluene	X	X	X	X	X	X	X	E	E
Jet Fuels	X	X	G	E	X	F	X	E	E
Kerosene	X	X	C	E	X	F	X	E	E
Ketchup	N	N	E	E	N	N	N	N	N
Ketoglutaric Acid	N	N	N	N	N	N	G	E	E
Ketones	G	G	X	X	G	X	E	E	E
Lacquer	X	X	X	X	X	X	N	N	N
Lacquer Solvents	X	X	X	X	X	X	X	E	E
Lactic Acid - Cold	G	G	E	X	E	G	X	C	N
Lactic Acid - Hot	X	X	X	X	N	C	X	N	N
Lactol	N	N	G	G	N	N	N	E	N
Lard	X	X	G	E	X	X	C	E	E
Lasso (Alachlor)	N	N	N	N	N	N	N	E	N
Latex Paint	G	G	N	E	G	N	E	E	E
Lauryl Alcohol	E	E	E	E	E	E	E	E	E
Lavender Oil	X	X	X	G	X	X	X	G	N
Lead Acetate	X	X	G	G	E	X	G	E	E
Lead Nitrate	E	E	E	E	E	E	E	E	E
Lead Sulfamate	G	G	E	G	E	G	E	E	E
Lead Sulfate	E	E	E	E	E	E	E	E	E
Lead, Tetraethyl	X	X	X	G	X	X	X	G	N
Lead, Tetramethyl	X	X	X	G	X	X	X	N	N
Lecithin	N	N	G	X	N	N	N	E	N
Ligroin	X	X	E	E	X	X	X	E	E
Lime	X	X	C	F	E	E	G	E	E
Lime, Chlorinated	G	G	X	G	G	X	G	E	E
Lime Sulphur Solution	X	X	E	X	X	G	G	E	E
Limonene	X	X	N	X	N	N	X	G	E
Lindol (Tricresyl Phosphate)	X	X	X	X	E	G	E	E	E
Linoleic Acid	X	X	X	X	X	X	X	N	N
Linseed Oil	X	X	G	E	E	C	G	E	E
Liquid Petroleum Gas	X	X	G	E	X	G	X	E	E
Liquid Soap	E	E	E	E	E	E	E	E	E
Liquified Natural Gas	X	X	X	X	X	X	X	X	X
Lubrication Oils	X	X	C	E	X	F	X	E	E
Lye Solution	G	G	G	E	E	E	E	E	G
Machine Oil Under 135°F	X	X	E	E	X	G	X	E	N
Maganese Salts	X	X	N	E	N	E	N	E	N
Magnesium Acetate	X	X	X	X	E	X	G	E	E
Magnesium Carbonate	E	E	E	E	E	E	E	E	E
Magnesium Chloride	E	E	E	E	E	E	G	E	E
Magnesium Chloride Brine	E	N	N	E	N	N	E	E	E

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	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMWPE
Magnesium Hydrate	E	G	E	G	E	G	E	E	E
Magnesium Hydroxide	E	E	E	E	E	E	G	E	E
Magnesium Nitrate	E	E	E	E	E	E	E	E	E
Magnesium Oxide, Slurry	G	N	E	G	N	N	E	E	N
Magnesium Sulfate	E	E	E	E	E	E	E	E	E
Malathion 50 in Aromatic Solvents	X	X	C	C	X	X	X	E	E
Malathion 50 in Aromatic Solvents, Water Spray	X	X	E	E	X	X	X	E	E
Maleic Acid	X	X	X	F	X	F	F	G	G
Maleic Anhydride	X	X	C	X	C	X	C	E	E
Malic Acid	E	G	C	G	X	G	X	E	E
Malt Extract (Maltine)	N	N	N	N	N	N	E	E	E
Maganese Sulfate	E	E	E	E	E	E	E	E	E
Maganese Sulfide	C	E	G	E	E	E	G	E	E
Manganese Sulfite	C	E	G	E	E	E	G	E	E
Maxmul (Penzoil Hydraulic Fluid)	N	N	G	E	N	N	N	N	N
Mek	G	X	X	X	G	X	G	E	G
Mercuric Chloride	G	G	C	C	G	G	C	E	E
Mercuric Cyanide Solutions	G	G	E	G	G	E	G	E	N
Mercurous Nitrate Solutions	N	N	N	N	N	N	G	E	E
Mercury	E	E	E	E	E	E	E	E	E
Mercury Vapors	E	E	E	E	E	E	E	E	E
Mesityl Oxide (Methyl Isobutenyl Ketone)	X	X	X	X	G	X	G	E	E
Mesitylene	X	X	X	X	X	N	X	N	N
Metallic Soaps	X	X	N	E	X	G	X	E	E
Methacrylic Acid	X	X	G	X	G	C	G	E	E
Methallyl Alcohol	G	N	N	E	G	G	N	N	N
Methane	X	X	G	E	X	G	X	E	E
Methanoic Acid	N	N	N	N	N	N	E	N	N
Methanol (Methyl Alcohol)	X	X	X	X	X	X	X	G	G
Methyl Acetate	F	X	X	X	G	X	G	E	E
Methyl Acetoacetate	X	N	X	X	G	X	G	N	N
Methyl Acetone	X	N	N	X	G	X	E	N	N
Methyl Acrylate	C	X	C	X	G	X	G	E	E
Methyacrylic Acid	X	X	N	G	E	N	G	E	E
Methylaniline	N	N	X	X	N	G	G	E	E
Methyl Alcohol (Methanol)	X	X	X	X	X	X	X	G	G
Methylallyl Alcohol	G	N	N	E	G	G	N	N	N
Methylamine (30-40% in water)	N	N	N	X	N	N	G	E	N
Methyl Benzene (Toluene)	X	X	X	X	X	X	X	E	E
Methyl Bromide	X	X	X	G	G	X	G	E	E
Methyl Butanathiol	X	X	N	N	X	N	X	E	N
Methyl Butanol	N	N	N	E	E	N	E	E	E
Methyl Butyl Ketone	X	X	X	X	G	X	G	E	E
Methyl Carbitol	X	X	N	N	X	X	E	E	N
Methyl Cellosolve	X	X	G	C	G	C	G	E	E
Methyl Chloride	X	X	X	F	X	X	E	G	F
Methyl Chloroform	X	X	X	X	X	X	X	G	N
Methyl Chloroformate	X	X	X	X	X	X	X	N	N
Methyl Cyclohexane	X	X	X	X	X	X	X	G	G
Methyl Ethyl Acetate	X	N	N	X	E	G	X	E	G
Methyl Ethyl Alcohol	E	N	N	E	E	E	E	E	E
Methyl Ethyl Carbinol	E	N	N	E	E	E	E	E	E
Methyl Ethyl Ketone	X	N	N	X	G	X	N	E	E
Methyl Hexanone	X	N	N	X	G	X	N	N	N
Methylcyanide	N	N	N	N	N	N	X	N	N
Methylene Bromide	X	X	X	X	X	X	X	G	C

	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMWPE
Methylene Chloride	X	X	X	X	X	X	X	E	G
Methylene Dichloride	X	X	X	X	X	X	X	E	N
Methyl Ethyl Ketone (MEK)	G	X	X	X	G	X	G	E	E
Methyl Formate	C	C	G	X	G	C	G	G	G
Methyl Hexanol	E	E	E	E	E	E	E	E	E
Methyl Hexyl Ketone	X	X	X	X	G	X	G	E	E
Methyl Isoamyl Ketone	X	N	N	X	G	X	N	N	N
Methyl Isobutenyl Ketone	X	X	X	X	G	X	G	E	E
Methyl Isobutyl Carbinol	G	C	G	G	E	G	E	E	E
Methyl Isobutyl Ketone (MIBK)	X	X	X	X	G	X	G	E	E
Methyl Isopropyl Ketone	X	X	X	X	G	X	G	E	E
Methyl Methacrylate	X	X	X	X	X	G	G	G	N
Methyl Methacrylate Monomer, Inhibited	X	X	X	X	X	X	X	N	N
Methyl Normal Amyl Ketone	X	N	N	X	G	X	G	E	E
Methyl Phenol	X	X	X	X	G	X	N	G	N
Methyl Propyl Carbinol	E	E	E	E	E	E	E	E	E
Methyl Propyl Ether	X	X	X	X	X	X	X	E	E
Methyl Propyl Ketone	X	X	X	X	G	X	G	E	E
Methyl Salicylate	X	X	X	X	G	X	G	G	G
Methyl Sulfate	X	X	X	X	G	X	X	E	N
Methyl Tertiary Butyl Ether (MTBE)	X	X	X	X	X	X	X	E	X
Methylallyl Acetate	X	N	N	X	E	G	E	E	E
Methylallyl Chloride	X	N	N	X	X	X	N	G	E
Methyldiethanolamine	X	N	N	E	X	X	X	E	E
Metribuzin	N	N	N	N	N	N	E	N	E
Mineral Oil	X	X	C	E	X	G	X	E	E
Mineral Spirits	X	X	G	E	X	X	X	E	E
Molasses	G	G	G	G	E	E	E	E	N
Molten Sulfur	X	X	N	N	G	F	X	X	N
Monochlorobenzene	X	X	X	X	X	X	X	G	G
Monochlorodifluoromethane (Freon 22)	X	X	E	X	E	X	E	E	E
Monoethanolamine	G	C	G	C	G	G	G	E	E
Monochloroacetic Acid	G	N	N	X	X	X	X	E	E
Monoethylamine	X	X	X	X	G	X	E	G	N
Monoisopropanol Amine	G	N	N	G	E	X	N	E	E
Monomethylether	G	G	E	E	E	C	C	E	E
Monopentaerythritol Solution	N	N	N	N	N	N	E	E	E
Monosodium Phosphate	G	G	X	N	G	N	G	E	N
Monovinyl Acetate	X	X	X	X	G	C	C	E	E
Morpholine	N	N	N	X	N	N	X	N	N
Motor Oil - 40W	X	X	E	E	X	X	X	E	E
Muriatic Acid	E	X	X	X	F	X	F	E	E
Mustard	E	E	E	N	E	E	N	N	N
N-Octane	X	X	G	G	X	X	X	G	N
Naphta	X	X	G	E	X	X	X	E	E
Naphtialene	X	X	X	X	X	X	X	E	E
Naphthenic Acids	X	X	X	G	X	X	X	E	E
Natural Gas	X	X	F	F	X	F	X	C	X
Neatsfoot Oil	X	X	G	E	G	G	G	E	E
Neohexane	N	N	G	E	N	N	X	N	N
Neon Gas	E	E	E	E	E	E	X	N	N
Neu-Tri (Trichloroethylene)	X	X	X	C	X	X	X	G	G
Neutral Oil	X	X	G	G	X	N	X	E	E
Nickel Acetate	X	X	X	X	E	X	G	E	E
Nickel Chloride	E	E	E	E	E	E	E	E	E
Nickel Nitrate	E	E	E	E	E	E	E	E	E
Nickel Plating Solution	E	X	C	G	G	G	G	E	E

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CHEMICAL, OIL & SOLVENT RESISTANCE TABLE - RUBBER HOSE

	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMWPE
Nickel Salts	E	E	E	E	E	E	E	E	N
Nickel Sulfate	E	E	E	E	E	E	E	E	E
Niter Cake	E	E	E	E	E	E	E	E	E
Nitric Acid, Conc (16N)	X	X	X	X	G	G	E	G	N
Nitric Acid, Red Fuming	X	X	X	X	X	X	X	X	X
Nitric Acid - 10%	X	X	X	X	G	G	G	E	E
Nitric Acid - 13N	N	N	N	N	N	N	C	N	N
Nitric Acid - 13N + 5%	N	N	N	N	N	N	N	N	N
Nitric Acid - 20%	X	X	X	X	G	G	F	E	E
Nitric Acid - 30%	X	X	X	X	F	F	F	G	G
Nitric Acid - 30% to 70%	X	X	X	X	F	F	C	F	F
Nitrobenzene	X	X	X	X	X	X	X	E	E
Nitroethane	G	G	C	X	G	G	X	E	N
Nitrogen Gas	E	E	E	E	E	E	E	E	E
Nitrogen Oxide	X	X	X	X	E	E	G	E	N
Nitrogen Tetraoxide	X	X	X	X	X	X	X	X	X
Nitromethane	G	G	C	X	G	C	G	E	E
Nitropropane	C	C	C	X	E	C	G	E	E
Nitrous Oxide Gas	E	E	E	E	E	E	E	E	E
Nonenes	X	N	N	E	X	X	X	E	E
Octadecanoic Acid	X	X	G	E	G	X	C	E	E
Octane	X	X	G	E	X	X	X	G	G
Octanol (Octyl Alcohol)	G	G	E	G	G	G	G	E	E
Octyl Acetate	X	X	X	X	E	X	G	E	E
Octyl Aldehyde	X	N	N	X	X	X	N	N	N
Octyl Amine	C	C	G	C	G	C	G	E	E
Octyl Carbinol	E	E	E	E	E	E	E	E	E
Octylene Glycol	E	E	E	E	E	E	E	E	E
Oil, ASTM #1	X	X	E	E	X	G	X	E	E
Oil, ASTM #2	X	X	E	E	X	C	X	E	E
Oil, ASTM #3	X	X	C	G	E	X	X	E	E
Oil - Petroleum	X	X	E	E	X	F	X	E	E
Oil of Turpentine	X	X	G	E	X	X	X	G	G
Oils, Animal (high fatty acid content)	X	X	G	E	G	X	X	G	N
Oleic Acid	X	X	F	C	G	X	G	E	E
Oleum (Fuming Sulf Acid)	X	X	X	X	X	X	X	X	X
Olive Oil	X	X	G	E	E	G	G	E	E
Organic Fatty Acids	X	N	N	E	X	X	X	E	E
Ortho-Dichlorobenzene	X	X	X	X	X	X	X	E	E
Orthodichlorobenzol	X	N	N	X	X	X	X	E	E
Orthoxylene	X	X	N	N	X	X	X	E	G
OS 45 Hydraulic Fluid (Silicate Ester Base)	X	X	E	G	X	G	X	N	N
Oxalic Acid	F	F	G	F	E	G	E	E	E
Oxygen, Cold	G	G	G	G	E	G	G	E	E
Oxygen, Hot	X	X	X	X	X	X	X	E	E
Ozone	X	F	G	X	G	E	E	E	E
Paint Thinner	X	X	X	X	X	X	X	E	E
Paint (Emulsion or Latex)	N	N	N	G	N	N	G	E	E
Paint (Oil or Solvent Based)	X	X	N	G	X	X	X	E	N
Palmitic Acid	X	X	C	E	E	C	C	G	E
Palm Oil	X	X	G	E	E	G	G	E	E
Papermakers Alum	E	E	E	E	E	E	E	E	E
Para-Dichlorobenzene	X	X	X	X	X	X	X	G	G
Paraffin Wax	X	X	G	E	X	X	X	X	X
Paraformaldehyde	X	X	G	G	G	G	G	E	E
Paraldehyde	X	N	N	X	G	X	G	E	E
Paraxylene	X	N	N	N	X	X	N	E	E

	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMWPE
Peanut Oil	X	X	G	E	C	G	X	E	E
Pelargonic Acid	X	N	N	E	E	X	N	E	E
Pentachloroethane	X	X	N	N	X	X	N	E	E
Pentachlorophenol in Oil	X	X	X	X	E	N	X	E	E
Pentane	X	X	E	E	X	G	X	E	E
Pentanol	E	N	N	E	E	E	E	E	E
Pentatone	X	N	N	X	G	X	N	E	E
Perchloric Acid - 2N	G	G	E	X	G	E	C	E	E
Perchloroethylene	X	X	X	X	X	X	X	G	G
Petrolatum	X	X	E	E	X	C	X	E	E
Petroleum, Crude	X	X	G	E	X	X	X	E	E
Petroleum Ether (Naptha)	X	X	E	E	X	X	X	E	E
Petroleum Naptha	X	X	X	X	X	X	X	X	X
Petroleum Oils	X	X	E	E	X	C	X	E	E
Petroleum Paraffin Wax	N	N	N	N	N	N	X	G	G
Phenol	F	F	F	X	E	F	F	E	E
Phenol Acid	X	X	X	X	G	X	G	G	N
Phenolates	N	N	X	X	N	X	N	N	N
Phenolsulfonic Acid	X	X	C	X	C	X	C	G	G
Phenyl Chloride	X	X	X	X	X	X	X	E	E
Phenylhydrazine	C	X	X	X	G	C	C	E	E
Phorone	X	X	X	X	E	X	G	E	E
Phosgene (Carbonyl Chloride)	X	X	X	X	G	X	X	X	X
Phosphate Esters	X	X	X	X	E	X	E	E	E
Phosphoric Acid 10%	E	E	E	E	E	E	E	E	E
Phosphoric Acid 10% - 85%	F	F	G	F	E	E	E	E	E
Phosphorous Trichloride	X	X	X	X	E	X	E	E	E
Pickling Solution	C	C	C	C	C	C	C	E	E
Pitric Acid, Molten	C	C	C	C	C	G	C	X	X
Pitric Acid, Water Solution	E	C	G	G	E	E	G	E	E
Pinene	X	X	X	E	X	X	X	E	E
Pine Oil	X	X	X	F	F	X	X	E	E
Piperidine	X	X	X	X	X	X	X	G	G
Pitch	X	X	G	G	X	C	X	E	E
Plating Solutions, Chrome	X	X	G	G	E	C	E	E	E
Plating Solutions, Other	E	E	G	G	E	C	E	E	E
Polyvinyl Acetate Emulsion (PVA)	C	C	G	C	E	G	E	E	E
Polyethylene Glycol	E	E	E	E	E	E	E	E	E
Polypropylene Glycol	E	E	E	E	E	E	E	E	E
Polyurethane Foam Under 125°F	N	N	N	N	G	N	G	E	N
Potassium Acetate	X	X	X	X	E	X	G	E	E
Potassium Bicarbonate	E	E	E	E	E	E	E	E	E
Potassium Bisulfate	E	E	E	E	E	E	E	E	E
Potassium Bisulfite	E	E	E	E	E	E	E	E	E
Potassium Bromide	E	E	E	E	E	E	E	E	N
Potassium Carbonate	E	E	E	E	E	E	E	E	E
Potassium Chloride	E	E	E	E	E	E	E	E	E
Potassium Chromate	X	X	F	X	E	F	G	G	G
Potassium Cyanide	E	E	E	E	E	E	E	E	E
Potassium Dichromate	X	X	G	X	E	F	G	E	E
Potassium Hydrate	E	G	G	G	E	G	E	E	E
Potassium Hydroxide	E	E	C	E	E	E	E	E	E
Potassium Iodide	N	N	E	E	N	E	E	N	N
Potassium Nitrate	E	E	E	E	E	E	E	E	E
Potassium Permanganate 5%	X	X	X	X	E	X	E	E	E
Potassium Phosphate	N	N	E	N	N	E	E	N	N
Potassium Silicate	E	E	E	E	E	E	E	E	E

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CHEMICAL, OIL & SOLVENT RESISTANCE TABLE - RUBBER HOSE

	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMWPE
Potassium Sulfate	E	E	E	E	E	E	E	E	E
Potassium Sulfide	E	E	E	E	E	E	E	E	E
Potassium Sulfite	E	E	E	E	E	E	E	E	E
Potassium Thiosulfate	N	N	E	N	N	E	E	N	N
Producer Gas	X	X	G	E	X	G	X	E	E
Propane	X	X	C	E	X	G	X	E	N
Propanediol	E	E	G	E	E	E	E	E	E
Propanol	E	N	N	E	E	E	E	E	E
Propionic Acid	G	G	X	X	G	G	G	E	E
Propyl Acetate	X	X	X	X	G	X	G	E	E
Propyl Alcohol (Propanol)	E	E	E	E	E	E	E	E	E
Propyl Aldehyde	X	N	N	X	G	X	N	N	N
Propyl Chloride	X	X	C	X	C	X	C	G	G
Propylene	X	X	X	X	X	X	X	N	N
Propylene Diamine	G	G	G	G	E	C	G	E	E
Propylene Dichloride	X	X	X	X	X	X	X	G	G
Propylene Glycol	E	E	E	E	E	E	E	E	E
Propylene Tetramer	X	N	N	E	X	X	X	E	E
Purina Insecticide	N	N	X	X	G	N	G	E	N
Puropale RX Oils	N	N	N	E	X	N	X	E	N
Pydraul Hydraulic Fluids	X	X	X	X	G	X	G	G	G
Pyranol	X	X	X	C	X	X	X	E	E
Pyrene (Carbon Tetrachloride)	X	X	X	X	X	X	X	G	X
Pyridine	X	X	X	X	G	X	G	E	E
Pyroligneous Acid	C	C	G	C	G	G	G	E	E
Pyrrole	C	G	X	X	G	X	C	E	E
Quenching Oil	N	N	G	G	N	N	N	N	N
Quintolubric 822	N	N	G	E	X	N	G	E	N
Rando Oils	N	N	N	E	X	N	X	E	N
Rape Seed Oil	X	X	G	G	E	G	G	G	G
Red Oil (Crude Oleic Acid)	X	X	G	G	G	G	G	E	E
Refined Wax (Petroleum)	X	X	G	E	N	N	N	E	N
Refrigerant 11 - Freon	X	X	C	E	X	F	F	G	G
Refrigerant 12 - Freon	X	X	G	E	X	X	X	G	G
Refrigerant 22 - Freon	X	X	E	X	E	X	X	E	E
Richfield A Weed Killer 100%	X	X	X	X	X	X	X	G	G
Richfield B Weed Killer 33%	X	X	G	G	G	C	X	G	G
Rosin Oil	X	X	E	E	X	G	X	E	E
Rotenone and Water	E	E	E	E	E	E	E	E	E
Rubilene Oils	N	N	N	E	X	N	X	E	N
Sal Ammoniac	E	E	E	E	E	E	E	E	E
Salicylic Acid	E	G	X	X	E	E	E	E	E
Sea Water	E	E	E	E	E	E	E	E	E
Sevin	N	N	N	N	N	N	G	G	N
Sewage	F	F	G	E	F	E	G	E	E
Sillicate of Soda	E	E	E	E	E	E	E	E	E
Silicone of Soda (Sodium Silicate)	E	E	E	E	E	E	E	E	E
Silicate Esters	X	X	E	G	X	E	X	E	E
Silicone Greases	E	E	E	E	E	E	E	E	E
Slicone Oil	E	F	E	E	E	E	F	E	E
Silver Cyanide	N	N	E	N	N	N	N	E	N
Siver Nitrate	E	E	E	E	E	E	E	E	E
Skelly Solvent	X	X	G	E	X	C	X	E	E
Skydrol Hydraulic Fluids	X	X	X	X	E	X	E	E	E
Soap, Liquid	G	G	E	E	G	E	E	E	N
Soap Oil	N	N	X	X	N	X	N	E	G
Soap Solutions	G	E	G	E	E	E	E	E	E

	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMWPE
Soda Ash	E	E	E	E	E	E	E	E	E
Soda, Caustic (Sodium Hydroxide)	E	G	E	G	E	E	E	E	E
Soda Lime	E	E	G	G	E	G	E	E	E
Soda Niter (Sodium Nitrate)	E	E	E	E	E	E	E	E	E
Sodium Acetate	X	X	X	X	X	X	G	E	E
Sodium Aluminate	E	E	E	E	E	E	E	E	E
Sodium Bicarbonate	E	E	E	E	E	E	E	E	E
Sodium Bichromate Solution	G	G	G	G	E	G	E	E	N
Sodium Bisulfate	E	E	E	E	E	E	E	E	E
Sodium Bisulfite	E	E	E	E	E	E	E	E	E
Sodium Borate	E	E	E	E	E	E	E	E	E
Sodium Carbonate	E	E	E	E	E	E	E	E	E
Sodium Chloride	E	E	E	E	E	E	E	E	E
Sodium Chloride Solution	G	G	X	X	G	G	X	N	N
Sodium Chromate	X	X	C	X	E	C	G	G	G
Sodium Cyanide	E	E	E	E	E	E	E	E	E
Sodium Dichromate	X	X	C	X	E	F	G	E	E
Sodium Fluoride	E	E	E	E	E	E	E	E	E
Sodium Hydrate	G	G	G	G	G	G	E	G	N
Sodium Hydoxide (Caustic Soda)	E	C	E	G	E	E	E	E	E
Sodium Hypochlorite	F	X	X	X	G	F	G	G	G
Sodium Metallic	N	N	N	G	N	N	E	N	N
Sodium Metaphosphate	E	E	G	E	E	G	E	E	E
Sodium Nitrate	E	E	E	E	E	E	E	E	E
Sodium Nitrite	E	E	E	E	E	E	E	E	E
Sodium Perborate	C	X	G	X	E	X	G	E	E
Sodium Peroxide	G	G	G	G	E	G	E	G	G
Sodium Phophate	E	G	G	E	E	E	E	E	E
Sodium Silfhydrate	G	X	G	G	G	G	E	G	N
Sodium Silicate	E	E	E	E	E	E	E	E	E
Sodium Sulfate	E	E	E	E	E	E	E	E	E
Sodium Sulfide	E	E	E	E	E	E	E	E	E
Sodium Sulfite	E	E	E	E	E	E	E	E	E
Sodium Sulphhydrate	N	N	G	G	E	G	E	G	N
Sodium Thiocyanate Solution	N	G	E	E	G	G	E	E	N
Sodium Thiosulfate	E	E	E	E	E	E	E	E	E
Soinus Oils	N	N	N	E	X	N	X	E	N
Soybean Oil	X	X	G	G	G	G	E	E	E
Spent Acid	X	X	X	X	X	G	X	G	G
Stannic Chloride	E	E	E	E	E	E	E	E	E
Stannic Sulfide	E	E	E	E	E	E	E	E	E
Stannous Chloride	E	E	E	E	G	E	E	E	E
Stannous Sulfide	E	E	E	E	E	E	E	E	E
Starch	E	E	G	G	N	E	E	E	N
Starch Gum	N	N	E	E	X	N	E	E	N
Steam - Below 350°F	X	X	X	X	G	X	E	X	X
Stearic Acid	X	X	G	G	G	G	G	E	E
Stoddards Solvent	X	X	C	E	X	X	X	E	E
STPP (Sodium Tripolyphosphate)	G	G	N	N	G	N	G	G	N
Styrene	X	X	X	X	X	X	X	X	X
Sugar Solutions (Sucrose - Non F.D.A.)	E	E	E	E	E	E	E	E	E
Sulfamic Acid	C	C	G	G	E	G	E	E	E
Sulfite Liquors	G	G	G	G	E	E	G	E	E
Sulfonic Acid	X	X	C	X	X	C	X	G	G
Sulfur (Molten)	X	X	X	X	F	F	F	G	G
Sulfur Chloride	X	X	C	C	X	G	X	E	G
Sulfur Dioxide	F	F	G	X	G	G	F	G	G

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	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMWPE
Sulfur Hexafluoride	E	E	E	E	E	E	E	E	E
Sulfur Trioxide	X	X	X	X	G	X	C	G	G
Sulfuric Acid 60% (200°F)	X	X	F	X	F	G	G	E	E
Sulfuric Acid - Conc.	X	X	X	X	X	E	X	E	X
Sulfuric Acid - Fuming	X	X	X	X	X	X	X	X	X
Sulfuric Acid 25%	G	G	G	E	E	E	G	E	E
Sulfuric Acid 25% - 50%	G	X	X	F	E	E	E	E	E
Sulfuric Acid 50% - 96%	X	X	F	X	F	G	G	E	E
Sulfurous Acid	G	C	G	C	G	E	G	E	E
Sun R&O Oils	N	N	N	E	X	N	X	E	N
Suntac HP Oils	N	N	N	E	X	N	X	E	N
Suntac WR Oils	N	N	N	E	X	N	X	E	N
Sunvis Oils 700, 800, 900	N	N	N	E	X	N	X	E	N
Synthetic Oil (Citgo)	N	N	N	E	X	N	X	E	N
Syrup	E	E	G	N	N	N	N	E	E
Tall Oil	X	X	G	E	X	G	X	E	E
Tallow	X	X	E	E	X	X	X	E	E
Tannic Acid	E	G	G	C	E	G	E	E	E
Tar	X	X	G	G	X	X	X	E	E
Tar Bituminous	X	X	C	G	X	X	X	N	N
Tartaric Acid	E	E	G	E	E	E	G	E	E
Tellus Oils	N	N	N	E	X	N	X	E	N
Tergitol	N	N	N	N	N	N	N	N	X
Terpineol	X	X	X	X	C	X	C	G	G
Tertiary Butyl Alcohol	E	E	E	E	E	E	E	E	E
Tetrachlorobenzene	X	X	X	X	X	X	X	G	G
Tetrachloroethane	X	X	X	X	X	X	X	E	G
Tetrachloroethylene	X	X	X	X	X	X	X	E	E
Tetrachloromethane	X	X	X	X	X	X	X	G	G
Tetrachloronapthalene	X	X	X	X	X	X	X	G	G
Tetradecanol	E	E	E	E	E	E	E	E	E
Tetraethylene Glycol	E	E	E	E	E	E	E	E	E
Tetraethyl Lead	X	X	C	G	X	X	X	E	E
Tetrahydrofuran (THF)	X	X	X	X	X	X	X	E	E
Tetrahydroxydicyclopentadiene	X	X	X	X	X	X	X	N	N
Tetralin	X	X	X	X	X	X	X	N	N
Theobromo Oil	X	X	G	G	N	N	N	E	G
Thionyl Chloride	X	X	X	X	X	X	X	E	E
Thiopen	X	X	X	X	G	N	X	N	N
Tin Chloride	E	E	E	E	E	E	E	E	E
Tin Tetrachloride	E	E	E	E	E	E	E	E	E
Titanium Tetrachloride	X	X	G	F	X	F	F	E	G
Toluene	X	X	X	X	X	X	X	E	E
Toluene Diisocyanate (TDI)	C	C	X	C	E	X	E	E	E
Toluidine	X	N	N	X	X	X	N	N	N
Toluol	X	N	N	X	X	X	X	E	E
Toxaphene	X	X	G	G	X	X	X	E	E
Transformer Oils (Petroleum Base)	X	X	G	E	X	G	X	E	E
Transformer Oils (Chloronated Pheynyl Base Askerels)	X	X	X	X	X	X	X	G	G
Transmission Fluids A	X	X	C	G	X	X	X	E	E
Transmission Fluid B	X	X	X	C	X	X	X	E	E
Tributoxyethyl Phosphate	X	X	N	X	G	X	G	E	X
Tributoxyl Ethylsulfate	X	N	N	X	E	X	E	X	N
Tributyl Amine	G	G	G	G	E	C	E	E	E
Tributyl Phosphate	X	X	X	X	G	X	G	E	E
Tricetin	E	G	G	G	E	G	E	E	E

	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMWPE
Trichloroacetic Acid	C	G	X	G	G	X	G	E	N
Trichlorobenzene	X	X	X	X	X	X	X	G	G
Trichloroethane	X	X	X	X	X	X	X	E	E
Trichloroethylene	X	X	X	C	X	X	X	G	X
Trichloropropane	X	X	X	X	X	X	X	E	E
Tricresyl Phosphate (TCP)	X	X	X	X	E	X	G	E	E
Tridecanol	E	E	E	E	E	E	E	E	E
Triethanolamine (TEA)	G	G	E	G	E	E	G	E	E
Triethylamine	G	G	E	G	G	E	G	E	E
Triethylene Glycol	E	E	E	E	E	E	E	E	E
Trifluralin	X	N	N	X	X	X	X	E	E
Trihydoxybenzoic Acid	G	G	X	X	G	N	E	E	E
Trimethylbenzene	X	X	X	X	X	N	X	N	N
Trinitrophenol	G	G	G	G	G	G	G	G	G
Trinitrotoluene (TNT)	X	X	G	X	X	G	X	X	X
Triphenyl Phosphate	X	X	C	X	E	C	G	E	E
Tripoly Phosphate	G	G	N	N	G	N	G	G	N
Trisodium Phosphate	E	E	E	E	E	E	E	E	E
Tung Oil	X	X	G	E	C	G	X	E	E
Turbine Oil	X	X	G	G	X	G	X	E	E
Turpentine	X	X	E	E	X	X	X	G	E
2, 4D With 10% Fuel Oil	X	X	E	E	X	X	X	E	E
Ucon Hydrolube Oils	X	X	G	E	E	X	E	E	E
Undecanol	G	N	N	E	N	G	N	N	N
Undecyl Alcohol	G	N	N	E	N	G	N	N	N
Union Hydraulic Tractor Fluid	N	N	N	E	X	N	X	E	N
Unsymmetrical Dimethyl Hydrazine (UDMH)	X	X	X	X	E	E	E	C	C
Uran	G	C	G	G	G	E	G	E	E
Urea	E	F	E	F	E	F	E	E	E
Urethane Formulations	N	N	N	E	N	N	N	N	N
Uric Acid	N	N	N	N	N	N	N	N	N
Varnish	X	X	G	G	X	F	X	E	E
Vegetable Oils	X	X	G	E	E	G	C	E	E
Versilube	C	C	C	E	E	E	E	E	E
Vinegar	E	F	E	C	E	E	G	E	E
Vinegar Acid	E	F	E	F	E	E	G	E	E
Vinyl Acetate	X	X	X	X	G	F	F	G	X
Vinyl Benzene	X	X	X	X	X	X	X	G	G
Vinyl Chloride	F	X	X	X	X	X	X	E	E
Vinyl Cyanide	N	N	N	N	N	N	N	N	N
Vinyl Ether	X	X	X	X	X	C	C	E	E
Vinyl Styrene	N	N	N	N	N	N	N	N	N
Vinyl Toluene	X	X	X	X	X	X	X	G	G
Vinyl Trichloride	X	X	X	X	X	X	X	E	E
Vitrea Oils	N	N	N	E	X	N	X	E	N
V.M. & P. Naptha	X	X	E	E	X	X	X	E	E
Water, Fresh (NON F.D.A.)	E	E	E	E	E	E	E	E	E
Water Boiling	N	N	E	N	N	N	E	N	N
Water, Salt	E	E	E	G	E	E	E	E	E
Whiskey	E	E	E	E	E	E	E	X	N
White Liquor	E	E	E	E	G	E	C	E	E
White Oil	X	X	G	E	X	X	X	E	E
Wines	E	E	E	E	E	E	E	X	N
Wood Alcohol	E	E	E	E	E	E	E	E	E
Xylene (Xytol)	X	X	X	X	X	X	X	C	C
Xylidine	X	X	X	X	X	X	X	G	G

E - Excellent • G - Good • F - Fair • C - Acceptable • X - Unsatisfactory • N - No Data

CHEMICAL, OIL & SOLVENT RESISTANCE TABLE - RUBBER HOSE

	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMWPE
Zeolites	G	E	E	C	C	E	E	E	E
Zeric	N	N	N	E	X	N	X	E	N
Zinc Acetate	C	X	C	C	E	C	G	E	E
Zinc Carbonate	E	E	E	E	E	E	E	E	E
Zince Chloride	E	E	E	E	E	E	G	E	E
Zinc Chromate	E	C	E	E	E	C	E	G	G
Zinc Sulfate	E	E	E	E	E	E	E	E	E

RESISTANCE RATING			
E	EXCELLENT	C	ACCEPTABLE
G	GOOD	X	UNSATISFACTORY
F	FAIR	N	NO DATA

Maximum temperature 100°F (38°C) unless otherwise specified.

The reader is cautioned that the above table is only a guide and should be used as such. The degree of resistance of an elastomer with a particular fluid depends on such variables as temperature, concentration, pressure, velocity of flow, duration of exposure, aeration, stability of fluid, etc. Also, variations in elastomer types and special compounding of stocks to meet specific service conditions have considerable influence on the results obtained.

TABLE OF CHEMICAL RESISTANCE
PVC, TPR, TPE & POLYURETHANE

Warning: The following data has been compiled from generally available sources and should not be relied upon without consulting and following the hose manufacturer's specific chemical recommendations. Neglecting to do so migh result in failure of the hose to fulfill its intended purpose. This may result in possible damage to property and serious bodily injury.

1-EXCELLENT **2-GOOD** **3-LIMITED** **4-UNSATISFACTORY**

Material Conveyed	Hose Construction with Temperature							
	PVC (F°)		TPR (F°)		TPE (F°)		Polyurethane (F°)	
	68	104	68	104	68	104	68	104
Acetaldehyde	4	4	4	4	4	4	4	4
Acetaldehyde 40%	4	4	4	4	4	4	4	4
Acetate Solvents, crude	4	4	3	4	3	4	3	4
Acetate Solvents, pure	4	4	3	4	3	4	3	4
Acetic Acid 0-1%	1	2	1	2	3	4	4	4
Acetic Acid 20-30%	1	2	1	2	3	4	4	4
Acetic Acid 80%	2	2	1	2	4	4	4	4
Acetic Acid Vapors	1	2	1	2	3	3	4	4
Acetic Acid Glacial	2	3	2	3	4	4	4	4
Acetic Anhydride	4	4					4	4
Acetone	2	3	1	1	3	4	3	4
Acetylene	1	1					1	1
Acrylonitrite	1	2						
Adipic Acid	2	3					4	4
Allyl Alcohol 96%	4	4					4	4
Allyl Chloride	3	3					4	4
Alum	1	1	1	1	1	1	1	1
Aluminum Acetate	2	3						
Aluminum Alkyl	4	4						
Aluminum Chloride	1	1	1	1	1	1	3	3
Aluminum Flouride	1	1	1	1	1	1	1	1
Aluminum Hydroxide	1		1	1	2	2	2	3
Aluminum Nitrate	1	2					1	1
Aluminum Oxychloride	1	1						
Aluminum Phosphate Solution	4	4						
Aluminum Salts	1	1						
Aluminum Sulphate	1	1	1	1	1	1	1	1
Aminoethanol	2							
Ammonia - aqueous	1		1		3		3	4
Ammonia- dry gas	3	4	2		3		3	4
Ammonia- liquid	4	4	3		3		3	4
Ammoniated Latex	1	3						
Ammonium Acetate	1	1						
Ammonium Bicarbonate	1	1						
Ammonium Carbonate	1	1					1	1
Ammonium Chloride Solution	1	1					2	3
Ammonium Flouride 25%	4	4					3	4
Ammonium Hydroxide (30% NH)	4	4					3	4
Ammonium Metaphosphate	1	1					2	2
Ammonium Persulfate	1	1					2	2
Ammonium Nitrate	1	1					2	2
Ammonium Phosphate Solutions	1	1						
Ammonium Sulfate	1	1					1	1
Ammonium Sulfide	1	1	1	1	1	1	1	1
Ammonium Thiocyanate	1	1	1	1	2	2	2	2
Amyl Acetate	4	4						
Amyl Alcohol	1	2	1	2	4	4	4	4
Amyl Chloride	4	4	4	4	4	4		
Aniline	2	3	1	2			4	4
Aniline Chlorohydrate	4	4					4	4
Aniline Hydrochloride	4	4					4	4
Animal Gelatin	1							
Animal Oils	1	1	1	1				
Ant Oil	4	4						

TABLE OF CHEMICAL RESISTANCE
PVC, TPR, TPE & POLYURETHANE

1-EXCELLENT 2-GOOD 3-LIMITED 4-UNSATISFACTORY

Material Conveyed	Hose Construction with Temperature							
	PVC (F°)		TPR (F°)		TPE (F°)		Polyurethane (F°)	
	68	104	68	104	68	104	68	104
Anthraquinone	1	1						
Anthraquinonesufonic Acid	1	1					4	4
Antifreeze	1	1						
Antimony Chloride	1							
Antimony Salts	1							
Antimony Trichloride	1	1					1	1
Apple Sauce/Juice	1	1						
Aqua Ammonia	4	4						
Aqua Regia	3	4	2	3			4	4
Argon, Compressed	4	4						
Aromatic Hydrocarbons	3	3	1	1				
Arsenic Acid 80%	1	2	1	1	4	4	4	4
Arsenic Trichloride	1	1					1	1
Arsenic Trioxide	1							
Arylsulfonic Acid	3	4					4	4
Askarel (Transformer Oil)	4	4						
Asphalt	4	4						
ASTM Fuel Oil # 1	1	1	1	1	2	2	1	1
ASTM Oil No. 2	4	4						
ASTM Fuel Oil # 3	2	3	1	1	2	2	1	1
ASTM Fuel A	2	2	1	1	2	2	1	1
ASTM Fuel B	4	4	1	1	2	3	2	3
ASTM Fuel C	4	4					2	3
Baby Food	1	1						
Baltic Types 100, 150, 200, 300, 500	2							
Barium Carbonate	1	1	1	1	1	1	1	1
Barium Chloride	1	1	1	1	1	1	1	1
Barium Hydroxide	1	1					2	3
Barium Sulfate	1	1	1	1	1	1	1	1
Barium Sulfide	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
Barley	1	4						
Basic Copper Arsenate	1							
Beer	1	1						
Beet Sugar - liquor	1	1						
Bellows 80-20 Hydraulic Oil	2							
Benzaldehyde	4	4						
Benzene	4	4						
Benzidine	4	4						
Benzoic Acid	2	3	1	2	4	4	4	4
Benzoic Aldehyde	4	4						
Benzol	4	4	2	3	3	4	**3**	4
Benzotrichloride	4	4						
Benzyl Alcohol	1							
Benzyl Chloride	4	4						
Berries	1	1						
Bismuth Carbonate	1	1					1	1
Black Liquor	1	1	1	1				
Blast Furnace Gas	4	4						
Bleach 12.5% Active CL	2	3	1	2	3	4	3	4
Borax	1	2	1	1			1	1
Bordeaux Mixture	1	1	1	1				
Boric Acid	1	1	1	1			4	4
Boric Oxide	1							
Boron Triflouride	1	1					1	1
Brake Fluid (Petroleum Base)	2							
Brake Fluid (Synthetic Base)	2							
Brine	1	1	1	1	3	4	2	3
Bromic Acid	1	2	1	2	3	4	4	4
Bromine - Liquid	4	4	3	4	4	4	4	4
Bromine - Water	4	4	3	4	4	4	4	4
Bromobenzene	4	4						
Bromochloromethane	4	4						
Bromotoluene	4	4						
Bunker Oil	4	4						

TABLE OF CHEMICAL RESISTANCE
PVC, TPR, TPE & POLYURETHANE

1-EXCELLENT **2-GOOD** **3-LIMITED** **4-UNSATISFACTORY**

Material Conveyed	Hose Construction with Temperature							
	PVC (F°)		TPR (F°)		TPE (F°)		Polyurethane (F°)	
	68	104	68	104	68	104	68	104
Butadiene	3	4						
Butane	1	1	1	1	1	1	1	1
Butanol - Primary	4	4					3	4
Butanol - Secondary	4	4					3	4
Butter	2	3						
Butyl Acetate	1							
Butyl Alcohol	1	2	1	2	1	2	3	4
Butyl Cellosolve	4	4	3	4				
Butyl Mercaptan	4	4						
Butyl Phenol	3	4	2	3				
Butyl Stearate	1							
Butylene	1	2	1	1	1	1	1	1
Butyric Acid 20%	3	4	2	3	3	4	3	4
Butynedial	4	4					4	4
Cake Alum Solution	1							
Calcium Arsenate	1							
Calcium Bisulfate	1	1	1	1	1	1		
CalciumBisulfide	2							
Calcium Bisulfite	1	1					1	1
Calcium Carbonate	1	1	1	1	1	1	1	1
CalciumChlorate	1	1	1	1	2	3	2	3
Clacium Chloride	1	1	1	1	3	4	3	4
Calcium Hydrosulfide	2							
Calcium Hydroxide	1	1	1	1	2	3	2	3
Clacium Hypochlorite	1	1	1	1	4	4	4	4
Calcium Metasilicate	1							
Calcium Nitrate	1	1	1	1	1	1	1	1
Calcium Silicate	1							
Calcium Sulfate	1	1	1	1	1	1	1	1
Calcium Sulfide	2							
Cane Sugar Liquors								
Carbolic Acid	4	4						
Carbon Bisulfide	1	1						
Carbon Dioxide	1	1						
Carbon Disulfide	4	4						
Carbon Monoxide	1	1	1	1	1	1	1	1
Carbon Tetrachloride	4	4	2	3	3	4	3	4
Carbolic Acid	4	4						
Carbonic Acid	1	1	1	1	4	4	4	4
Carrots	1	1	1	1	4	4		
Casein	1	2					1	1
Castor Oil	1	1	1	1	1	1	1	1
Catsup	1	2						
Caustic Potash	1	1	1	1	3	4	3	4
Caustic Soda	1	1	1	1	3	4	3	4
Cellosolve	3	4	2	3	2	3	2	3
Cellulose Acetate	1							
Cellulose Butyl	1							
Cheese	1	2						
Cherries	1	1						
China-Wood Oil	2							
Chlordane	2							
Chloracetic Acid	1	4					4	4
Chloral Hydrate	1	1					2	3
Chloric Acid 20%	1	1					4	4
Chlorinated Hydrocarbons	1	1					4	4
Chlorinated Solvents	4	4						
Chlorine Gas - dry	1	1	1	1	4	4	4	4
Chlorine Gas - moist	3	4	2	3	3	4	4	4
Chlorine Trifluoride	4	4						
Chloroacetyl Chloride	1							
Chlorobenzene	4	4						
Chlorobromomethane	4	4						
Chloroethane	4	4						

TABLE OF CHEMICAL RESISTANCE
PVC, TPR, TPE & POLYURETHANE

1-EXCELLENT 2-GOOD 3-LIMITED 4-UNSATISFACTORY

Material Conveyed	Hose Construction with Temperature							
	PVC (F°)		TPR (F°)		TPE (F°)		Polyurethane (F°)	
	68	104	68	104	68	104	68	104
Chloroform	4	4						
Chloropentane	4	4						
Chloropicrin Mixture	4	4						
Chlorotoluene	4	4						
Chlorox	1							
Chlorsulfonic Acid	3	4					4	4
Chocolate	2	3						
Chocolate Syrup	1							
Chromic Chloride	1							
Chrome Alum	1	1	1	1	1	1	1	1
Chromic Acid 25%	2	3	1	2	4	4	4	4
Chromic Acid 50%	2	3	1	2	4	4	4	4
Chromium Trioxide	4	4						
Cider	2							
Citgo FR Fuels	2							
Coal Gas	1							
Coal Tar	4	4	3	3			4	4
Coconut Oil	3	4	1	1	1	1	1	1
Cola Beverage	1	1						
Copper Chloride	1	2	1	1	1	1	1	1
Copper Cyanide	1	1						
Copper Flouride 2%	1	1					1	1
Copper Nitrate	1	2	1	1	1	1	1	1
Copper Sulphate	1	2					1	1
Core Oils	1	1					1	1
Corn Oils	1	2						
Cottonseed Oil	2	3					1	1
Creosole	4	4	3	4	3	4		
Creosote	4	4	3	4				
Cresylic Acid 50%	4	4					4	4
Crude Oil Sour	1	1	1	1	1	1	1	1
Crude Oil Sweet	1	1	1	1	1	1	1	1
Crude Wax	1							
Cupric Chloride	1							
Cupric Cyanide	1							
Cupric Nitrate	1							
Cupric Sulfate	1							
Cyanide, Copper	1							
Cyanide, Silver	1							
Cyanide Sodium	1							
Cyclohexane	4	4						
Cyclohexanol	4	4					3	4
Cyclohexanone	4	4					4	4
Cymene	4	4						
Decanol	4	4						
Deicing Fluid	1	1						
Demineralized Water	1	1	1	1	3	4	2	4
Denatured Alcohol	1							
Detergents, synthetic	1	2	1	1				
Developers, photographic	1	1	1	1				
Dextrin	1							
Dextron	2							
Dextrose	1	2	1	1	1	1	1	1
Diacetone	4	4						
Diacetone Alcohol	4	4						
Diammonium Phosphate	1							
Diazinon	2							
Diazo Salts	1	1						
Dibutyl Phthalate	1							
Dibutylamine	4	4						
Dichlorobenzene	4	4						
Dichlorobenzyl Chloride	4	4						
Dichloroethane	4	4						
Dichloroethylene	4	4						

TABLE OF CHEMICAL RESISTANCE
PVC, TPR, TPE & POLYURETHANE

1-EXCELLENT 2-GOOD 3-LIMITED 4-UNSATISFACTORY

Material Conveyed	Hose Construction with Temperature							
	PVC (F°)		TPR (F°)		TPE (F°)		Polyurethane (F°)	
	68	104	68	104	68	104	68	104
Dichloroethylene	4	4						
Dichloromethane	4	4						
Diesel Oils	3	4	1	2				
Diethanolamine	2							
Diethyl Ether	2							
Diethyl Ketone	4	4						
Diethyl Oxalate	4	4						
Diethylene Dioxide	2							
Diethylene Ether	4	4						
Diethylene Glycol	1							
Diglycolic Acid	1	2						
Dihydroxyethyl Ether	1							
Dimethylamine	4	4					4	4
Dimethylbenzene	4	4						
Dimethylcarbonal	2							
Dimethylketone	4	4						
Dioctyl Phthalate	4	4						
Dioctyl Phosphite	4	4						
Dioxane	4	4						
Disodium Phosphate	1	1	1	1	1	1	1	1
Distilled Water	1	1	1	1	3	4	2	4
DMB (Dimethylbenzene)	4	4						
Duro Oils	2							
EDB (Ethylene Dibromide)	4	4						
Eggs	1	1						
Emulsions, photographic	1	1						
Enamels	2							
Essential Oils	2							
Ethanolamine	2							
Ethers	4	4					2	3
Ethyl Acetate	4	4						
Ethyl Acrylate	4	4						
Ethyl Alcohol	2	3						
Ethyl Alcohol 50-98%	3	4						
Ethyl Bromide	4	4						
Ethyl Chloride	4	4	4	4	4	4	4	4
Ethyl Ether	4	4					2	3
Ethyl Ether Acetate	1							
Ethyl Mercaptan	4	4						
Ethyl Methyl Ketone	4	4						
Ethylbutanol	1							
Ethylbutyl Alcohol	1							
Ethylene Bromide	1	4	1	3	4	4	4	4
Ethylene Chlorohydrin	4	4						
Ethylene Dibromide	4	4						
Ethylene Dichloride	4	4					4	4
Ethylene Glycol	1	1	1	1	2	3	2	3
Ethylene Oxide	4	4					4	4
Ethylhexanol	1							
Ethylhexyl Acrylate	4	4						
Ethylhexyl Alcohol	1							
Fatty Acid	2							
Fatty Alcohol, Blend	1							
Ferric Chloride	1	1	1	1	2	3	2	3
Ferric Nitrate	1	1	1	1	1	1	1	1
Ferric Sulphate	1	1	1	1	1	1	1	1
Ferrous Chloride	1	1					1	1
Ferrous Nitrate	2							
Ferrous Sulfate Solution	1							
Fertilizer	2							
Figs	1	1						
Fish Solubles	1	1						
Fixing Solutions, photographic	1	2						
Flour	1	4						

TABLE OF CHEMICAL RESISTANCE
PVC, TPR, TPE & POLYURETHANE

1-EXCELLENT 2-GOOD 3-LIMITED 4-UNSATISFACTORY

Material Conveyed	Hose Construction with Temperature							
	PVC (F°)		TPR (F°)		TPE (F°)		Polyurethane (F°)	
	68	104	68	104	68	104	68	104
Flourobic Acid	1	1	1	1	1	1		
Fluorine	4	4					4	4
Fluosilic Acid	4	4						
Foric Acid	1	3					4	4
Formaldehyde Solution (to 50%)	1							
Formalin	1							
Formic Acid 3%	1	2						
Formic Acid 10%	1	2					4	4
Formic Acid 25%	1	2					4	4
Formic Acid 50%	3	4					4	4
Freon-12	1	2	1	1	1	1	1	1
Fructose	1	1	1	1	1	1	1	1
Fruit Pulps and Juices	1	1					1	1
Fuel Oil	2	3	1	1	1	2	1	1
Fumaric Acid	4	4						
Furan	4	4						
Furfural	4	4					4	4
Furfuryl Alcohol	1	3						
Fusel Oil	1							
Gallic Acid Solution	4	4						
Gasohol	4	4						
Gas - cook oven	2	2	1	2	2	2	2	2
Gas - natural (dry)	1	1	1	1	1	1	1	1
Gas- natural (wet)	1	1	1	1	1	1	1	1
Gasoline	4	4						
Gasoline - refined	3	4	1	1	2	3		
Gasoline, Unleaded	4	4						
Gasoline, White	4	4						
Gelatin	1	1	1	1	1	1	1	1
Gin	1	2						
Ginger Ale	1	1						
Glacial Acetic Acid	4	4						
Glucose	1	1	1	1	1	1	1	1
Glue	1							
Glycerine	1	1	1	1	1	1		
Glycerol	1	1						
Glycol	1	1	1	1	2	2	1	1
Glycolic Acid 30%	1	1					4	4
Grape Juice	1	1						
Grapefruit Juice	1	1						
Grease	1							
Green Liquor (paper)	1	1						
Heptachlor	4	4						
Heptane	3	4	1	2	1		1	
Heptanol	1							
Hexane	3	4						
Honey	1	1						
HPO (Sodium Thiosulfate)	1							
Hydraulic Fluid	1							
Hydraulic Fluid HF-18, HF-20	2							
Hydrazine	4	4						
Hydro-Drive Oil (houghton)	2							
Hydrobromic Acid	4	4						
Hydrochloric Acid 10%	1	1	1	1	4	4	4	4
Hydrochloric Acid 48%	3	4					4	4
Hydrocyanic Acid	4	4						
Hydroflouric Acid 4%	2	3					4	4
Hydroflouric Acid 10%	3	3					4	4
Hydroflouric Acid 48%	3	4					4	4
Hydroflouric Acid 60%	3	4					4	4
Hydrofluosilicic Acid	4	4					4	4
Hydrogen	1	2	1	1	1	1	1	1
Hydrogen Bromide (Dry) (liquid)							1	1
Hydrogen Cyanide	1	1					4	4

TABLE OF CHEMICAL RESISTANCE
PVC, TPR, TPE & POLYURETHANE

1-EXCELLENT 2-GOOD 3-LIMITED 4-UNSATISFACTORY

Material Conveyed	Hose Construction with Temperature							
	PVC (F°)		TPR (F°)		TPE (F°)		Polyurethane (F°)	
	68	104	68	104	68	104	68	104
Hydrogen Peroxide	4	4						
Hydrogen Peroxide 12%	1	2	1	1	2	3		
Hydrogen Peroxide 50%	1	3	1	2	3	4	2	3
Hydrogen Peroxide 90%	4	4	3	4	4	4	4	4
Hydrogen Phosphide	1	3						
Hydrogen Sulfide - Aqueous Solution	1	1						
Hydrogen Sulfide - Dry	1	1						
Hydrolube (water glycol)	1	1						
Hydrolubric Oil	2							
Hydroquinone Solution	2							
Hydroxylamine Sulfate	1	1						
Hypochlorous Acid	1	1					3	4
Iodine	4	4						
Iron Acetete Liquor	1							
Iron Salts	1							
Iron Sulfate Solution	1							
Isobutanol	2							
Isobutyl Alcohol	2							
Isooctane	4	4						
Isopropanol	2							
Isopropyl Acetate	4	4						
Isopropyl Alcohol	1	2	1	1	3	4		
Isopropyl Ether	4	4						
JP 3, 4, 5	4	4	2	3	3	3	2	3
Jelly	1	1						
Jet Fuel - All Types	4	4						
Karo Syrup	1	1						
Kerosene	4	4	1	1	1	1	1	2
Ketones	4	4						
Kraft Liquor (paper)	1	1						
Lacquer Thinner	3	4	2	2	3	3	2	
Lactic Acid 28%	1	1					4	4
Lard	2	3						
Lard Oil	1	2					1	2
Latex Paint	1							
Lauric Acid	1	1	1	1	3	4	3	4
Lauryl Chlorite	1	1					1	2
Lauryly Sulfate	1	1						
Lead Acetate	1	1	1	1	1	1	1	1
Lead Nitrate Solution	1							
Lead, Tetraethyl	1							
Lemon Juice	1	2						
Ligroin	4	4						
Lime. Chloronated	2							
Lime, sulfur	1	1						
Linoleic Acid	1							
Linseed Oil	1	1	1	1	1	1	1	1
Liquid Soap	2							
Liquors	1	2						
Lubricating Oils	4	4	1	1	1	1	1	1
Machine Oil under 135°F	2							
Magnesium Carbonate	1	1	1	1	1	1	1	1
Magnesium Hydroxide	1	1	1	1	3	4	2	3
Magnesium Nitrate	1	1					1	1
Magnesium Sulfate Solution	1							
Malathion	1							
Maleic Acid Solution	4	4						
Manganese Salts	1							
Manganese Sulfate Solution	1							
Mayonnaise	1	1						
MBK (Methyl Butyl Ketone)	4	4						
MEA (Ethanolamine)	2							
MEK (Ethyl Methyl Ketone)	4	4						
Mercuric Chloride	2	2	1	1	2	3	2	3

TABLE OF CHEMICAL RESISTANCE
PVC, TPR, TPE & POLYURETHANE

1-EXCELLENT 2-GOOD 3-LIMITED 4-UNSATISFACTORY

Material Conveyed	Hose Construction with Temperature							
	PVC (F°)		TPR (F°)		TPE (F°)		Polyurethane (F°)	
	68	104	68	104	68	104	68	104
Mercuric Chloride Solution	2							
Mercuric Cyanide	2	2						
Mercuric Nitrate	2	2					2	2
Mercury	2	2						
Mesitylene	4	4						
Mesityl Oxide	4	4						
Mesitylene	4	4						
Methanol	4	4	4	4	4	4	4	4
Methyl Acetate	4	4						
Methyl Acetone	1							
Methyl Alcohol	3	4	2	3	3	4	4	4
Methyl Bromide	4	4						
Methyl Butanathiol	4	4						
Methyl Butanol	1							
Methyl Chloride	4	4					4	4
Methyl Chloroform	4	4						
Methyl Cyanise	1							
Methyl Ethyl Ketone	4	4	2	3	3	4		
Methy Isobutenyl Ketone	4	4						
Methyl Isobutyl Ketone	4	4						
Methyl Isopropyl Ketone	4	4						
Methyl Methacrylate	1							
Methyl Methacrylate Monomer	4	4						
Methyl Propyl Ketone	4	4						
Methyl Slaicylate	1							
Methyl Sulfate	1							
Methylamine	4	4						
Methylaniline	4	4						
Methylene Bromide	4	4						
Methylene Chloride	4	4						
Methylene Dichloride	4	4						
Milk	1	1					1	1
Mineral Oils	1	2	1	1	1	1	1	1
Molasses	1	1	1	1	1	1	1	1
Monochlorobenzene	4	4						
Monomethylamine	4	4						
Monosodium Phosphate	1							
Motor Oil	3							
Muriatic Acid	4	4						
N-Octane	4	4						
Naphthenic Acid	1							
Naptha	4	4	1	1				
Napthalene	3	4	1	1				
Nickel Chloride Solution	1	1					1	1
Nickel Nitrate Solution	2						1	1
Nickel Plating Solution	4	4						
Nickel Salts	2							
Nickel Sulfate Solution	1							
Nicotine	1	1					1	1
Nicotine Acids	1	2	1	1	3	4	3	4
Nicotine Salts	1							
Niter Cake	1							
Nitric Acid 10%	1	2		1	4	4	4	4
Nitric Acid 40%	2	3	1	1	4	4	4	4
Nitric Acid 60%	3	4	2	3	4	4	4	4
Nitric Acid 68%	3	4	2	3	4	4	4	4
Nitric Acid 70%	4	4	3	3	4	4	4	4
Nitrobenzene	4	4					4	4
Nitrogen	1							
Nitrogen Oxide	4	4						
Nitromethane	4	4						
Nitrous Acid (up to 10%)	1							
Nitrous Oxide	1	1					1	1
Oats	1	4						

TABLE OF CHEMICAL RESISTANCE
PVC, TPR, TPE & POLYURETHANE

1-EXCELLENT 2-GOOD 3-LIMITED 4-UNSATISFACTORY

Material Conveyed	Hose Construction with Temperature							
	PVC (F°)		TPR (F°)		TPE (F°)		Polyurethane (F°)	
	68	104	68	104	68	104	68	104
Octadecanoic Acid	1							
Octanol	2							
Octyl Alcohol	2							
Oil of Turpentine	1							
Oils, Animal	2							
Oils, Mineral	4	4						
Oils, Petroleum	1	2	1	1	1	1	1	1
Oleic Acid	2	3	1	1	4	4	4	4
Oleum	4	4	4	4	4	4	4	4
Olive Oil	2	2						
Ortho-Dichlorobenzene	4	4						
Ortho-xylene	4	4						
Oxalic Acid	4	4						
Oxygen	1	1					1	1
Ozone	3	4						
Paint	1							
Para formaldehyde	1	2						
Paraffin	1	2						
Palmitic Acid 10%	1	2					4	4
Palmitic Acid 70%	3	4					4	4
Peaches	1	1						
Peanut Butter	1	2						
Peanut Oil	2							
Peas	1	1						
Pentachlorophenol in Oil	4	4						
Pentane	3	4						
Pentanone	4	4						
Pentasol	2							
Perchloric acid	4	4						
Perchloroethylene	4	4						
Petrol	4	4						
Petroleum Ether	3	3	1	1				
Petroleum Naptha	4	4						
Petroleum Oils (Refined)	1							
Petroleum Oils (Sour)	2							
Phenol	4	4						
Phenol Acid	4	4						
Phenyl Chloride	4	4						
Phenolhydrazine	4	4						
Phenolhydrazine Hydrochloride	3	4						
Phosgene (gas)	1	2						
Phosgene (liquid)	4	4						
Phosphorous (yellow)	2	3						
Phosphorous Pentoxide	4	4						
Phosphorous Trichloride	1	1					1	1
Phosphorous Trichloride	1	1					1	1
Photographic Chemicals	1	1					1	2
Photographic Fixing Solutions	1							
Picric Acid	4	4	4	4	4	4	4	4
Pinene	4	4						
Pitch	2	3	1	1				
Plating Solutions	1	2					1	1
Polyethylene Glycol	2							
Potash	1							
Potassium Acetate	1							
Potassium Acid Sulfate	1	1					1	1
Potassium Antimonate	1	1					1	1
Potassium Bicarbonate	1	1	1	1	1	1	1	1
Potassium Bichromate	1	1					1	1
Potassium Bisulfate	1							
Potassium Bisulfite	1	1					1	1
Potassium Borate 1%	1	1					1	1
Potassium Bisulfate	1							
Potassium Bromate 10%	1	1	1	1	1	1	1	1

TABLE OF CHEMICAL RESISTANCE
PVC, TPR, TPE & POLYURETHANE

1-EXCELLENT 2-GOOD 3-LIMITED 4-UNSATISFACTORY

Material Conveyed	Hose Construction with Temperature							
	PVC (F°)		TPR (F°)		TPE (F°)		Polyurethane (F°)	
	68	104	68	104	68	104	68	104
Potassium Bromide	1	1	1	1	1	1	1	1
Potassium Carbonate	1							
Potassium Chlorate	1							
Potassium Chloride	1	1	1	1	1	2	1	2
Potassium Chromate	1						2	2
Potassium Cuprocyanide	1							
Potassium Cyanide	1	1	1	1	1	1	1	1
Potassium Dichromate	1	1					2	2
Potassium Ferrocyanide	1	1					1	1
Poassium Fluoride	1	1	1	1	1	2		
Potassium Hydrate	2							
Potassium Hydroxide	1	1						
Potassium Hypochlorite	2	3					4	4
Potassium Iodide	1							
Potassium Nitrate	1	1	1	1	1	1	1	1
Potassium Perborate	1	1	1	1	1	1	1	1
Potassium Perchlorite	1	1					2	3
Potassium Permanganate	4	4						
Potassium Persulfate	1							
Potassium Sulfate	1							
Potassium Sulfide	1	1	1	1	1	1	1	1
Potassium Sulfite	2							
Potassium Thiosulfate	1							
Potatoes	1	1						
Propane	1	1	1	1	1	1	1	1
Propargyl Alcohol	1	1						
Propyl Alcohol	1	2	1	1	2	3	2	3
Propylene Dichloride	4	4					4	4
Propylene Glycol	1						4	4
Prune Juice	1	1						
Puropale RX Oils	2							
Pyrene	4	4						
Pyrethrum	2							
Pyridine	4	4						
Pyrogard C, D	2							
Red Oil	2							
Regal Oils R&O	2							
Richfield A Weed Killer	1	2						
Rubilene Oils	2							
Salicylic Acid	1							
Salt Water	1	1	1	1	2	3	2	4
Sauerkraut	2							
Selenic Acid	1	2					4	4
Sewage	2							
Shortening	2	3						
Silicic Acid	1	1					4	4
Silicone Greases	2							
Silicone Oils	2							
Silver Cyanide	1	1					1	1
Silver Nitrate	1	1	1	1	1	1		
Silver Plating Solution	1	2	1	1	1	1	1	1
Skydrol 500A & 7000	4	4						
Soap	1	1	1	1	2	3	2	4
Soda Ash	1							
Soda Water	1	1						
Sodium Acetate	1	1					1	1
Sodium Aliminate Solution	2							
Sodium Arsenite	1	1					1	1
Sodium Benzoate	1	2	1	1	1	1	1	1
Sodium Bicarbonate	1	1	1	1	1	1	1	1
Sodium Bichromate Solution	2							
Sodium Bisufite	1							
Sodium Borate	1							
Sodium Bromide	1	1	1	1	1	2	1	2

TABLE OF CHEMICAL RESISTANCE
PVC, TPR, TPE & POLYURETHANE

1-EXCELLENT 2-GOOD 3-LIMITED 4-UNSATISFACTORY

Material Conveyed	Hose Construction with Temperature							
	PVC (F°)		TPR (F°)		TPE (F°)		Polyurethane (F°)	
	68	104	68	104	68	104	68	104
Sodium Carbonate (soda ash)	1	1	1	1	1	2	1	1
Sodium Chlorate	2	3	1	2	3	3	2	2
Sodium Chloride	1	1	1	1	1	2	1	2
Sodium Chlorite Solution	2							
Sodium Chromate	2							
Sodium Cyanide	1	1	1	1	1	1	1	1
Sodium Dichromate	1	2	1	2	1	2	1	2
Sodium Ferricyanide	1	1					1	1
Sodium Ferrocyanide	1	1					1	1
Sodium Fluoride (70%)	1	1					1	2
Sodium Hydrate	2							
Sodium Hydrochlorite	2							
Sodium Hydrosulfide	1							
Sodium Hydrosulfite	2							
Sodium Hydroxide 10%	1	1	1	1	3	4	3	4
Sodium Hydroxide 35%	1	2	1	1	4	4	4	4
Sodium Hydroxide 50%	1	3	1	2				
Sodium Hypochlorite (20%)	1	1					4	4
Sodium Hyposulfate	1							
Sodium Metaphosphate	1							
Sodium Nitrate	1	1					1	1
Sodium Nitrite	1	1					1	1
Sodium Peroxide	1							
Sodium Phosphate	1							
Sodium Phosphate Acid	2	2	1	2	4	4		
Sodium Silicate	1							
Sodium Sulfate	1							
Sodium Sulfhydrate	2							
Sodium Sulfide	1	1					1	1
Sodium Sulfite	1	1					1	1
Sodium Sulphrydate	2							
Sodium Thiosulfat	1	1					1	2
Solnus Oils	1							
Sour Crude Oil	4	4						
Soya Beans	1	4						
Soya Oil	1	3						
Soybean Oil	1	1						
Spent Acid	4	4						
Spinach	1	1						
Squash	1	1						
Stannic Chloride	2							
Stannis Chloride	1	1	1	1	1	2	1	2
Starch	1							
Starch Gum	1							
Stearic Acid	1							
Stoddard Solvent	2							
Straight Synthetic Oils	2							
Styrene	4	4						
Sugar - all forms	1	1						
Sulfamic Acid	4	4						
Sulfate Liquors under 150° F	1							
Sulfur	2	2						
Sulfur Chloride	2							
Sulfur Dioxide (dry)	1							
Sulfur Dioxide (liquid)	4	4						
Sulfur Hexafluoride (Gas)	2							
Sulfur Trioxide	1							
Sulfuric Acid 10%	1	2	1	1	3	4	3	4
Sulfuric Acid 70%	1	2	1	1	4	4	4	4
Sulfuric Acid 95%	3	3	1	2	4	4	4	4
Sulfurous Acid	2	3	1	2	4	4	4	4
Sulphur Dioxide Gas - dry	1	1						
Sulfur Dioxide Gas - wet	4	4						
Sulfur Dioxide - Liquid	3	4						

TABLE OF CHEMICAL RESISTANCE
PVC, TPR, TPE & POLYURETHANE

1-EXCELLENT 2-GOOD 3-LIMITED 4-UNSATISFACTORY

Material Conveyed	Hose Construction with Temperature							
	PVC (F°)		TPR (F°)		TPE (F°)		Polyurethane (F°)	
	68	104	68	104	68	104	68	104
Sun R&O Oils	2							
Suntac HP Oils	2							
Suntac WR Oils	2							
Sunvis Oils 700, 800, 900	2							
Synthetic Oil (Citgo)	2							
Tall Oil	4	4						
Tallow	2							
Tannic Acid	1	1	1	1	3	4	3	4
Tanning Liquors	1	1						
Tar Oil	2							
Tartaric Acid	1	2	1	1	2	3	3	4
TEA (Triethanolamine)	2	3						
Tellus Oils	2							
Tenol Oils	2							
Terpineol	2							
Tetrachloroethane	4	4						
Tetraethyl Lead	2	3						
Tetrahydrofuran	4	4						
Tetrahydroxydicyclopentadiene	4	4						
THF (Tetrahydrofuran)	4	4						
Thionyl Chloride	4	4					4	4
Tin Chloride	1	1	1	1	1	1		
Titanium Tetrachloride	1	4					3	4
Toluene	4	4	2	2	3	4		
Toluol	4	4						
Tomatoes	1	1						
Tributyl Phosphate	4	4						
Trichloroethylene	4	4					3	4
Trichloroethane	4	4						
Tricresyl Phosphate	4	4					4	4
Triethanolamine	3	4						
Triethylamine	2	3						
Trihydroxybenzoic Acid	4	4						
Trimethylbenzene	4	4						
Trimethyl Propane	3	4						
Trinitrophenol	1							
Trisodium Phosphate	1	1	1	1	1	1	1	1
Tung Oil	2							
Turpentine	3	4	1	1	2	3	1	2
Ucon Hydrolube Types 150CP, 200CP	2							
Ucon Hydrolube Types 275CP,300CP, 550CP	2							
Ucon M1	2							
Union Hydraulic Tractor Fluid	2							
Urea	1	2	1	1	1	1	1	1
Urine	1	1	1	1	1	1	1	1
Varnish	4	4	1	1	1	2	1	2
Vegetable Oils	2	3						
Versilube F-50, F-44	2							
Vinegar	1	2					2	3
Vinyl Acetate	4	4					4	4
Vinyl Chloride	4	4						
Vinyl Trichloride	4	4						
Vitrea Oils	2							
Vodka	1	2						
Water Acid - mine water	1	1	1	1	3	4	2	4
Water in Oil Emulsions	1							
Water - distilled	1	1	1	1	3	4	2	4
Water - fresh	1	1	1	1	3	4	2	4
Water - salt	1	1	1	1	3	4	2	4
Whiskey	1	2						
White Gasoline	1	1	1	1	1	2	1	2
White Liquor (paper)	1	1						
Wines	1	2						

TABLE OF CHEMICAL RESISTANCE
PVC, TPR, TPE & POLYURETHANE

1-EXCELLENT 2-GOOD 3-LIMITED 4-UNSATISFACTORY

Material Conveyed	Hose Construction with Temperature							
	PVC (F°)		TPR (F°)		TPE (F°)		Polyurethane (F°)	
	68	104	68	104	68	104	68	104
Wood Oil	1							
Xylene	4	4	1	1	2	3	2	3
Xylol	4	4	1	1	2	3	2	3
Yeast	1	2						
Yogurt	1	2						
Zeric	2							
Zinc Acetate	1							
Zinc Chloride Solutions	1							
Zinc Chromate	1	1	1	1	1	1	1	1
Zinc Cyanide	1	1	1	1	1	1	1	1
Zinc Hydrate	1							
Zinc Nitrate	1	1	1	1	1		1	1
Zinc Sulfate	1	1	1	1	1	1	1	1

COUPLING MATERIAL CORROSION RESISTANCE

WARNING: The following data has been compiled from generally available sources and should not be relied upon without consulting and following the hose manufacturer's specific chemical recommendations. Neglecting to do so might result in failure of the hose to fulfill it's intended purpose, and may result in possible damage to property and serious bodily injury.

RESISTANCE RATING

METAL	
E	EXCELLENT
G	GOOD
F	FAIR
X	NOT RECOMMENDED
C	CONTACT FACTORY

NON-METAL	
A	ACCEPTABLE
X	NOT RECOMMENDED
C	CONTACT FACTORY

1. Ratings given are based at +70°F (+21°C). Chemical compatibility varies greatly with temperature. For applications at temperatures other than +70°F (+21°C), contact the manufacturer for recommendations.

2. 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.

MATERIAL	Aluminum	Brass	Carbon Steel	Stainless Steel, 304	Stainless Steel, 316	Nylon	Poly-Propylene
Absorption Oil		E					
Acetal		E					
Acetaldehyde	E	E	E	E	E		E
Acetamide	E	X		G			
Acetate Solvents (Crude)	E	X	G	E	E	A	X
Acetate Solvents (Pure)	E	E	X	E	E	A	X
Acetic Acid (80%)	F	X	X	E	E	X	X
Acetic Acid (50%)	G	X	X	G	E	X	X
Acetic Acid (20%)	G	X	X	G	E	X	X
Acetic Acid (10%)	G	X	X	E	E	X	X
Acetic Anhydride	G	X	G	G	G	X	X
Acetic Ether	E	E	E	E	E		G
Acetic Oxide	G	X	X	G	G		X
Acetone	E	G	G	E	E	A	X
Acetophenone							G
Acetylene	E	X	G	E	E	X	X
Acetyl Oxide	G	X	X	G	G		X
Acetylene Dichloride							X
Aeroshell 7A, 17 Grease	E		E	E	E		
Air 212° F	E	E	E	E	E		
Air, Ambient	E	E	E	E	E		E
Aircraft Hydraulic Oil AA	E	E	E	E	E		
Alachlor (Lasso)				E	E		
Alcohol - Amyl	G	G	G	G	G	A	X
Alcohol - Benzyl	G	G	G	E	E	A	X
Alcohol - Butyl	E	G	G	E	E	X	X
Alcohol - Diacetone	E	E	G	G	G	X	X
Alcohol - Ethyl	E	G	G	G	G	X	X
Alcohol - Hexyl	C	C	C	C	C	X	X
Alcohol - Isobutyl	C	C	C	C	C	X	X
Alcohol - Isopropyl	G	G	G	G	G	X	X
Alcohol - Methyl	G	G	G	G	G	X	X
Alcohol - Octyl	C	C	C	C	C	A	X
Alcohol - Propyl	G	G	G	E	E	X	X
Alkyaryl Sulfonate			E	E			
Allomalaic Acid Solution			E	E			
Allyl Chloride			E	E			
Aluminum Acetate		X		E	E		
Aluminum Bromide		X	X	G	G		
Aluminum Chloride	X	X	X	X	X	A	A
Aluminum Fluoride	G	C	X	X	G	X	A
Aluminum Nitrate	F	X	X	G	G	A	A
Aluminum Potassium Sulfate	G	G	X	X	G	X	A
Aluminum Salts	G			G	G		E
Aluminum Sulfate	X	X	X	C	G	A	A
Amines (Mixed)	X	X		E			

MATERIAL	Aluminum	Brass	Carbon Steel	Stainless Steel, 304	Stainless Steel, 316	Nylon	Poly-Propylene
Aminoethanol		E	E	E	E		
Ammonia Anhydrous	E	X	E	G	E	A	X
Ammonia Gas	X	X	E	E	E	A	X
Ammonia Nitrate	C	C	C	C	C	X	C
Ammonium Acetate		X		E	E		E
Ammonium Bifluoride	C	X	X	C	C	X	A
Ammonium Carbonate	G	X	G	G	G	A	A
Ammonium Casenate	C	C	C	C	C	A	C
Ammonium Chloride	X	X	X	X	X	A	A
Ammonium Hydroxide	G	X	E	G	G	A	A
Ammonium Metaphosphate	X		E	E	E		E
Ammonium Nitrate	G	X	X	C	C	A	A
Ammonium Nitrite				E	E		E
Ammonium Persulfate		X		E	E		X
Ammonium Phosphate	X	X	X	E	G	A	A
Ammonium Sulfate	X	X	X	X	G	A	A
Ammonium Sulfide	X	X	E	E	E		E
Ammonium Thiocyanate			E	E	E		E
Amyl Acetate	X	E	X	E	E		X
Amyl Alcohol	E	E	E	E	E		
Amyl Chloride				E	E		X
Amy Chloronapthalene				E	E		
Amyl Napthalene				E	E		
Amyl Phenol				E	E		
Anethole	G	X	G	E	E		E
Aniline	C	X	X	E	E	X	X
Aniline Hydrochloride		X		X	X		G
Aniline Oil	G	X	G	E	E		E
Animal Fat (Lard)	E	X	E	E	E		
Animal Gelatin				E	E		
Animal Oils	E		E	E	E		
Ant Oil	E	E	G	E	E		G
Antifreeze	E	E	E	E	E		E
Aqua Ammonia		X	G	E	E		E
Aqua Regia				X	X		X
Aromatic Hydrocarbons	G	G	E	E	E		
Arsenic Acid	G		G		E		G
Askarel (Transformer Oil)		E	E	E	E		G
Asphalt	C	C	G	C	G	X	X
Asphalt (Cut Back)		E	E	E	E		
ASTM Oil No. 1	E	E	E	E	E		G
ASTM Oil No. 2	E	E	E	E	E		X
ASTM Oil No. 3	E	E	E	E	E		X
ASTM Reference Fuel A	E	E	E	E	E		X
ASTM Reference Fuel B	E	E	E	E	E		X
ASTM Reference Fuel C	E	E	E	E	E		X

COUPLING MATERIAL CORROSION RESISTANCE

Ratings given are based at +70°F (+21°C).

MATERIAL	Aluminum	Brass	Carbon Steel	Stainless Steel, 304	Stainless Steel, 316	Nylon	Poly-Propylene
Baltic Types 100, 150, 200, 300, 500							G
Banvel					E		
Bardol B			E	E	E		
Barite		G	E	E	E		
Barium Carbonate	X	G	G	G	G	A	A
Barium Chloride	C	G	C	X	C	A	A
Barium Hydroxide	X	G	G	G	G	A	A
Barium Sulfate	G	G	X	G	G	A	A
Barium Sulfide	X	X	G	G	G	A	A
Beer	E	G	G	E	E	A	A
Beet Sugar Liquors	X		X	X	X		X
Bellows 80-20 Hydraulic Oil							X
Benzaldehyde	G	G	X	G	G	X	X
Benzene, Benzol	E	G	G	G	G	A	X
Benzenesulfonic Acid	X		X		G		E
Benzine	E	G	G	G	G	A	X
Benzoic Acid	G	G	X	G	G	X	X
Benzoic Aldehyde			E		E		E
Benzol	E	E	E	E	E		X
Benzyl Alcohol, Photo Inhibited			E	E	E		E
Benzyl Benzoate			E	E	E		
Bismuth Carbonate			E	E	E		E
Bitumastic		E	E	E	E		
Black Liquor			E	E	E		E
Black Sulfate			E	E	E		E
Blast Furnace Gas		E	E	E	E		
Bleach	X	C	X	C	X	X	A
(12.5% active Chlorine)							
Borax	X	G	G	E	E	X	A
Bordeaux Mixture				E	E		
Boric Acid	E	X	X	C	C	X	A
Brake Fluid (Peteroleum Based)		E	E	E	E		X
Brake Fluid (Synthetic Based)		E	E	E	E		
Brine Acid	E	X	X	C	C	X	A
Bromic Acid	X	X	C	C	C	X	A
Bromine		E	E	E	E		X
Bromine Liquid	G	C	C	X	X	X	X
Bromochloromethane		E	E	E	E		X
Bunker Oil	E	E	E	E	E		
Butadiene, Butylene	G	G	G	G	G	X	X
Butanal		E					
Butane	G	G	E	G	G	X	X
Butter Oil (Use FDA Hose)	E	E	E	E	E		
Butyl Acetate	E	G	G	G	G	A	X
Butyl Alcohol	E	E	E	E	E		E
Butyl Carbitol	E	E	E	E	E		
Butyl Ether	E	E	E	E	E		
Butyl Mercaptan				E	E		
Butyl Stearate	E	E	E	E	E		
Butylamine	E	E	E	E	E		X
Butyric Acid	G	G	X	G	G	A	A
Cake Alum	X	X	X	X	G		E
Calcine Liquor	G		E	E	E		
Calcium Acetate	E	E	E	E	E		
Calcium Bisulfate	X	C	X	X	G	X	A
Calcium Bisulfide	C	C	C	C	G	A	A
Calcium Bisulfite	X	X	X	C	G	X	A
Calcium Bromide	X	G	X	X	X	X	X
Calcium Carbonate	X	G	G	E	G	A	A
Calcium Chlorate				G	E		E
Calcium Chloride	C	G	G	C	C	A	A
Calcium Hydrogen Sulfite				E	E		E
Calcium Hydrosulfide		X		G	E		E
Calcium Hydroxide	X	G	G	G	G	A	A
Calcium Hypochlorite	X	X	X	X	G	X	A
Calcium Metasilicate	E	E	E	E	E		E
Calcium Nitrate Solutions	E	E	E	E	E		E

MATERIAL	Aluminum	Brass	Carbon Steel	Stainless Steel, 304	Stainless Steel, 316	Nylon	Poly-Propylene
Calcium Oxide					G		
Calcium Silicate	E	E	E	E	E		
Calcium Sulfate		E	E	E	E		E
Calcium Sulfide	G		E	E	E		
Caliche Liquors	G		E	E	E		
Cane Sugar Liquors	E	G	E	E	E		E
Carbolic Acid	G	X	X	E	E		
Carbolic Acid (Phenol)	G	X	X	E	E		
Carbolic Acid (Phenol, 82-95% in Creosols)	G	X	X	E	E		
Carbon Bisulfide	E	X	G	G	G	A	X
Carbon Dioxide - Dry	E	E	G	G	G	A	A
Carbon Dioxide - Wet	E	X	F	G	G	X	A
Carbon Disulfide	E	X	G	G	G	A	X
Carbon Monoxide	E	E	G	E	E	A	A
Carbon Tetrachloride	X	C	G	E	C	A	X
Carbonic Acid	E	G	G	G	G	X	A
Castor Oil	G	G	G	G	G	X	A
Caustic Potash	X	C	X	C	G	A	A
Caustic Soda	X	G	G	C	C	X	A
(see Sodium Hydroxide)							
Cellosolves	G	G	G	G	G	X	A
Cellosolve Acetate			E	E	E		E
Cellosolve Butyl			E	E	E		E
China Wood Oil	E	E	E	E	E		
Chlorine - Liquid	C	C	G	C	F	X	X
Chlorine - Water				X	X		E
Chloroacetic Acid Solution		G	X	X	X		E
Chlorobenzene	E	E	E	E	E		X
Chlorobromomethane		E	E	E	E		X
Chloroform	C	C	X	C	C	X	X
Chloropentane				E	E		X
Chloropropylene Oxide			E				E
Chlorosulfonic Acid	C	X	G	X	X	X	X
Chlorothene		E		E	E		
Chlorotoluene	E	E	E	E	E		
Clorox (5.5% bleach)	X	C	X	C	G	X	C
Chromic Acid (50%)	G	X	X	F	C	X	X
Chromium Trioxide	X	X	X	X	G		E
Citric Acid	F	X	X	F	C	X	X
Coal Tar	E	E	E	E	E		
Cobalt Nickel Plating Solution					G		
Cocoa Butter			E	E	E		
Cod Liver Oil	E	E	E	E	E		
Coke Oven Gas	G	F	G	G	G	X	X
Copper Arsenate			E	E	E		
Copper Chloride	X	X	X	X	X	A	A
Copper Cyanide	X	X	C	G	G	X	C
Copper Nitrate		X	X	E	E		E
Copper Sulfate	X	X	X	C	G	A	A
Corn Oil	E	E	E	E	E		X
Corn Syrup	E		E	E	E		
Cottonseed Oil	E	E	E	E	E		E
Creosote	E	X	G	E	E		G
Cresol	E		G	E	E		G
Crotonic Acid			E	X			
Crude Oil	E	E	E	E	E		E
Crude Wax		E	E	E	E		E
Cryolite		E	E	E	E		X
Crysylic Acid	G	G	G	G	G	X	X
Cupric Arsenate			E	E	E		
Cupric Nitrate		X	X	E	E		E
Cutting Oil (Mineral Oil Base)		E	E	E	E		X
Cutting Oil, Sulfur Base		E	E	E	E		E
Cutting Oil, Water Soluble		E	E	E	E		E
Cyanide, Copper		X		E	E		E
Cyanide, Mercuric	X						E
Cyanide, Silver	X	X	G	E	E		E

METAL: E - Excellent • G - Good • F - Fair • X - Not Recommended • C - Contact Factory
NON-METAL: A - Acceptable • X - Not Recommended • C - Contact Factory

COUPLING MATERIAL CORROSION RESISTANCE

Ratings given are based at +70°F (+21°C).

MATERIAL	Aluminum	Brass	Carbon Steel	Stainless Steel, 304	Stainless Steel, 316	Nylon	Poly-Propylene
Cyanide, Sodium	X	X	G	E	E		
Cyclohexane	G	G	G	G	G	A	X
Cyclohexanol							E
Cyclohexanone	G			E	E		X
Cymene	E	E	E	E	E		
Decalin		E					E
Deicing Fluid	E	E	G	E	E		E
Denatured Alcohol	E	E	E	E	E		
Detergents	G	G	G	E	G	A	A
Developing Solutions				E	E		
Dextrin				E	E		
Dextrose	G	C	C	C	C	A	A
Dextrose	G	C	C	C	C	A	A
Diacetone		E	E	E	E		E
Diacetone Alcohol	E	E	E	E	E		E
Diammonium Phosphate	x		x	G	E		E
Diazinon							G
Dibenzyl Ether	E	E	E	E	E		
Dibutyl Phthalate	E	E	E	E	E		G
Dibutylsebacate		E					
Dichlorobenzene (ortho)		E		E	E		
Dichlorobenzene (para)		E		E	E		
Dichloroethylene							X
Dichloromethane		E	E	E	E		
Diesel Fuels	E	E	G	E	E	A	X
Diethanolamine	E	x	E	E	E		
Diethanolamine - 20%	E	x	E	E	E		
Diethyl Ether	E	E	G	E	E		E
Diethyl Phthalate		E		E	E		
Diethyl Sebacate		E		E	E		
Diethylamine	G	C	X	G	G	X	A
Diethylene Dioxide	E	E	E	E	E		E
Diethylene ether	E	E	E	E	E		E
Diethylene Glycol	E	E	E	E	E		E
Dihydroxyethyl Ether	E	E	E	E	E		E
Diisobutyl Ketone		E	E	E	E		E
Diisobutylene		E		E	E		
Diisopropyl Ketone		E		E	E		
Diisopropylidene Acetone		E	E	E	E		
Dimethyl Aniline		E					
Dimethyl Ether	E	E	E	E	E		
Dimethyl Formamide			E	E	E		E
Dimethyl Phthalate		E					
Dimethylcarbinol	E	G	E	E	E		E
Dimethylformamide			E	E	E		E
Dimethylketone	E	E	E	E	E		G
Dioctyl Phthalate	E	E	E	E	E		X
Dioxane	E	E	E	E	E		E
Dioxolane	E	E	E	E	E		
Dipentene	E	E	E	E	E		
Dirco Oils	E	E	E	E	E		
Disodium Phosphate	C	C	E	C	E	A	A
DMF (Dimethylfomamide)			E	E	E		E
Dowtherm A	E	E	E	E	E		
Dowtherm SR-1	E	E	G	E	E		E
Duro Oils	E	E	E	E	E		
Ehylene Chloride	C	C	G	C	C	A	X
Ehylene Dichloride	C	G	G	G	G	A	X
Ehylene Glycol	E	G	G	G	G	A	X
Ehylene Oxide	E	X	G	G	G	X	X
Enamels		E					
Epichlrohydrin			E				E
Essential Oils	E	E	E	E	E		
Ethanol	E	G	E	E	E		E
Ethanolamine		E	E	E	E		
Ethers	G	G	G	E	E	A	X
Ethers	E	E	E	E	E		G

MATERIAL	Aluminum	Brass	Carbon Steel	Stainless Steel, 304	Stainless Steel, 316	Nylon	Poly-Propylene
Ethyl Acetate	C	C	G	G	G	A	X
Ethyl Acetoacetate	E	E	E	E	E		X
Ethyl Alcohol	E	G	E	E	E		E
Ethyl Bromide		E		E	E		
Ethyl Butyrate	E			E	E		
Ethyl Chloride	C	C	G	C	E	A	X
Ethyl Ether	E	E	G	E	E		E
Ethyl Mercaptan			G				
Ethyl Pentachlorobenzene		E	G	E	E		
Ethyl Phthalate		E		E	E		
Ethyl Silicate	E	E	E	E	E		
Ethylamine		E		E	E		
Ethylbenzene		E	E	E	E		
Ethylcellulose		E	E	E	E		
Fatty Acids	E	F	X	C	E	A	A
Ferric Chloride	X	X	X	X	X	X	A
Ferric Hydroxide	C	C	C	E	E	A	C
Ferric Nitrate (10 - 50%)	X	X	X	G	G	X	A
Ferric Sulfate	X	X	X	C	C	X	A
Ferrous Chloride	X	X	C	X	X	X	A
Ferrous Nitrate				E	E		E
Ferrous Sulfate	G	G	X	G	C	X	A
Fertilizer	E	E	E	E	E		E
Fire-Resistant Hydra-Fluid	E	E	E	E	E		
Fixing Solution (Photo)				E	E		E
Fluboric Acid	X	C	E	C	C	X	A
Fluosilicic Acid	E						E
Formaldehyde (50%)	C	G	X	E	E	X	A
Formic Acid (Anhydrous)	E	X	X	C	C	X	A
Freon 11	G	G	X	G	G	X	X
Freon 12	G	G	X	G	G	X	X
Freon 22	G	G	X	G	G	X	X
Fruit Juices	G	G	X	G	G	A	A
Fuel Oil	G	G	G	G	G	A	X
Fumaric Acid				E	E		
Furan	E	E	E	E	E		
Furfural	G	G	G	G	G	A	X
Furfuran	E	E	E	E	E		
Fusel Oil	E	E	E	E	E		
Fyrguard 150, 200	E	E	E	E	E		
Fyrquel 15R&O, 220R&O, 550R&O	E		E				
Fyrquel 90, 150, 220, 300, 550, 1000	E		E				
Gallic Acid			X	E	E		E
Gasohol	E	E	G	E	E		X
Gasoline - Refined	G	G	G	G	G	A	X
Gasoline - Sour	X	G	G	G	G	A	X
Gasoline (Oxygenated- Blended with MTBE)	E	E	G	E	E		X
Gelatin	G	G	X	G	G	A	A
Glucose	G	G	G	G	G	A	A
Glucose	E	E	E	E	E		
Glue	G	G	G	C	G	C	A
Glycerine	E	E	G	E	E	A	A
Glycerol	E	E	G	E	E		
Glycols	G	G	G	G	G	A	A
Grease	E	E	E	E	E		
Grease, Silicone Base	E	E	E	E	E		
Green Liquor	C	C	G	C	C	C	A
Green Sulfate Liquor			E	E	E		
Heptane	G	G	G	G	G	A	X
Hexaldehyde	E	E	E	E	E		
Hexane	G	G	G	E	E	A	X
Hexanol	E	G	E	E	E		
Hexene		E	E	E	E		
Hexyl Alcohol	E	G	E	E	E		
Hexylene		E	E	E	E		
Houghto-Safe 1055, 1110, 1115, 1120, 1130	E	E	E	E	E		
Houghto-Safe 271, 416, 520, & 616, 620	E	E	E	E	E		

METAL: E - Excellent • G - Good • F - Fair • X - Not Recommended • C - Contact Factory
NON-METAL: A - Acceptable • X - Not Recommended • C - Contact Factory

COUPLING MATERIAL CORROSION RESISTANCE

Ratings given are based at +70°F (+21°C).

MATERIAL	Aluminum	Brass	Carbon Steel	Stainless Steel, 304	Stainless Steel, 316	Nylon	Poly-Propylene
Houghto-Safe 5048	E	E	E	E	E		
Houghto-Safe 625, 640 & 525 under 100°F	E	E	E	E	E		
HPO (Sodium Thiosulfate)	G	X	X	E	E		
Hy-Chock Oil			E	E	E		
Hydrafluid 760	E	E	E	E	E		
Hydrafluid AZR&O, A, B, AA, C	E		E	E	E		
Hydrasol A	E		E	E	E		
Hydraulic Fluid (Phosphate Ester Base)			E	E	E		
Hydraulic Fluid (Polyalphaolifin)	E	E	E	E	E		
Hydraulic Fluid (Std. Petroleum Oils)	E	E	E	E	E		
Hydraulic Fluid (Water Glycol Based)	E	E	E	E	E		
Hydraulic Fluid HF-18, HF-20	E	E	E	E	E		
Hydraulic Fluid HF-31	E	E	E	E	E		
Hydrobromic Acid - 20%	X	X	X	X	X	X	A
Hydrobromic Acid - 50%	X	X	X	X	X	X	A
Hydrochloric Acid - 20%	X	X	X	X	X	X	A
Hydrochloric Acid - 38%	X	X	X	X	X	X	A
Hydrocyanic Acid	G	X	G	G	G	X	A
Hydrofluosilicic Acid-10 -50%	X	G	X	X	G	X	C
Hydrogen Chloride (Dry Gas)	X	G	G	C	C	X	A
Hydrogen Fluoride			E	E	E		
Hydrogen Gas	E	E	C	E	E	X	A
Hydrogen Peroxide - 50%	C	X	X	C	C	X	A
Hydrogen Peroxide (35% or less)	E	X	X	G	E		
Hydrogen Peroxide (50% or less)	E	X	X	G	E		
Hydrogen Peroxide (70% or less)	E	X	X	G	E		
Hydrogen Peroxide (90% or less)	E	X	X	G	E		
Hydrogen Sulfide	C	C	C	X	G	X	A
Hydroquinine				E	E		
Hydroquinine Solution				E	E		
Hypo Chlorous Acid	X	X	X	X	X	X	X
Ink (Printers)		G	G	G	E		
Ink Oil		E	E	E	E		
Insulating Oil		E	E	E	E		
Iodine	E	X	X	X	X	X	A
Iron Acetate Liquor			E	E	E		E
Iron Sulfate Solution	X	X	X	E	E		E
Isobutanol	E	G	E	E	E		
Isobutyl Alcohol	E	G	E	E	E		
Isocyanate			E	E	E		
Isooctane	G	E	E	E	E		
Isoproponal	E	G	E	E	E		E
Isopropyl Acetate	E	E	E	E	E		
Isopropyl Alcohol	E	G	E	E	E		E
Isopropyl Ether	C	G	C	E	G	A	X
Isopropyltoluene	E	E	E	E	E		
Jet Fuel (JP4, JP5)	G	E	G	G	G	X	X
Karo Syrup				E	E		
Kerosene	G	G	G	G	G	X	X
Ketchup				E	E		
Ketones	G	G	G	G	G	A	X
Lacquer - Alcohol or Acetate as Solvent	E	E	X	X	E		
Lacquer - Toluene or Xylene as Solvent	E	E	X	X	E		
Lactic Acid (25%)	F	G	X	C	C	A	A
Lactic Acid (80%)	G	G	X	C	C	A	A
Lactol		E	E	E	E		
Lard Oil	G	C	F	G	G	A	A
Lasso				E	E		
Latex Paint	E	E	E	E	E		
Lead Acetate	X	X	X	G	G	X	A
Lead Chloride	X	C	C	G	G	X	C
Lead Nitrate Solution			E	E	E		
Lead Sulfate	X	C	X	G	G	X	C
Lecithin				E	E		
Ligroin			G	E	E		
Lime					G		
Lime Chlorinated (normal 35-37% Chlorine)					G		

MATERIAL	Aluminum	Brass	Carbon Steel	Stainless Steel, 304	Stainless Steel, 316	Nylon	Poly-Propylene
Lime Sulfur Solution	X	X	G	E	E		
Lime Sulphur	X	X	X	G	G	X	A
Lime, Chlorinated			X	G	E		
Limonene	E	E	E	E	E		
Lindane				E	E		
Linseed Oil	G	G	G	G	G	A	A
Liquid Soap	E	E	E	E	E		
Lonoleic Acid	G	X	X	G	G	X	A
Lubricants (oil)	G	E	G	G	G	A	X
Machine Oil Under 135°F	E	E	E	E	E		
Magnesium Chloride	X	X	C	C	C	X	A
Magnesium Hydroxide	G	G	G	E	E	X	A
Magnesium Nitrate	G	G	G	G	G	X	A
Magnesium Oxide	C	C	C	C	C	X	C
Magnesium Sulfate	G	C	C	G	G	X	A
Magnesium Carbonate	G	C	C	G	G	X	A
Malathion		E	E	E	E		
Maleic Acid	C	G	X	C	G	X	A
Maxmul			E		E		
MBK (Methyl Butyl Ketone)	E	E	E	E	E		
Mecurious Nitrate Solution	X		E	E	E		
MEK (Ethyl Methyl Ketone)	E	E	E	E	E		
Mercuric Chloride	X	X	X	X	C	X	A
Mercuric Cyanide	X	X	X	G	G	X	A
Mercury	X	X	G	E	E	A	A
Mesityl Oxide	E	E	E	E	E		
Metallic Soaps	E	E	E	E	E		
Methane	E	E	G	E	E	A	X
Methanol	G	G	G	G	G	A	A
Methoxychlor Solution			E	E	E		
Methyamine			E	E	E		
Methyl Acetate	E	E	E	E	E		
Methyl Acrylate	E	E	E	E	E		
Methyl Alcohol	E	G	E	E	E		
Methyl Bromide	X	C	G	G	G	X	X
Methyl Butyl Ketone	E	E	E	E	E		
Methyl Cyanide			E	E	E		
Methyl Ethyl Ketone	G	G	G	G	G	A	X
Methyl Formate	E	E	E	E	E		
Methyl Isobutyl Ketone	G	G	G	G	G	A	X
Methyl Metha crylate	G	C	X	G	G	X	A
Methyl Nutanathiol				E	E		
Methyl Phenol	E		G	E	E		G
Methyl Salicylate	E	E	E	E	E		
Methylene Chloride	C	G	G	C	C	A	X
Methylene Dichloride	X	E	E	E	E		
Milk	E	X	G	E	E	A	A
Mineral oil	G	E	G	E	G	A	A
Mobile Therm 603	E	E	E	E	E		
Molasses	G	X	G	E	E		
Monochloroacetic Acid Solution		G	X	X	X		
Monochlorobenzene		E	E	E	E		
Monoethanolamine		E	E	E	E		
Monomethylamine			E	E	E		
Monosodium Phosphate	X	X	E	E	E		
Motor Oil	E	E	E	E	E		
Mould Oil			E	E	E		
Mouth Wash	E	E	E	E	E		
Muriatic Acid	X	C	C	X	X	X	A
Mustard			X	E	E		
Naptha		E	G	E	E		
Napthalene	G	G	G	E	E	A	A
Napthalene	G	G	G	G	G	A	X
Neutral Oil		E	E	E	E		
Nickel Acetate	E	E	E	E	E		
Nickel Chloride	X	X	X	C	C	X	A
Nickel Nitrate	X				G		

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COUPLING MATERIAL CORROSION RESISTANCE

Ratings given are based at +70°F (+21°C).

MATERIAL	Aluminum	Brass	Carbon Steel	Stainless Steel, 304	Stainless Steel, 316	Nylon	Poly-Propylene
Nickel Plating Solution				E	E		
Nickel Sulfate	X	X	C	G	G	X	A
Nicotine Salts			E	X	G		
Niter Cake	X	X	X	E	E		
Nitogen, Liquid	E	E	E	E	E		
Nitric Acid (100%)	E	X	X	G	C	X	X
Nitric Acid (30%)	X	X	X	E	C	X	X
Nitric Acid (50%)	X	X	X	G	C	X	X
Nitrobenzene	E	G	G	G	G	A	A
Nitroethane		E		E	E		
Nitrogen Gas	E	E	E	E	E		
Nitrogen Oxide		X	E	E	E		
Nitromethane		E		E	E		
Nitropropane		E		E	E		
Nitrosyl Chloride				E	E		
Nitrous Acid (Up to 10%)	X	X	X	E	E		
Nitrous Oxide		X	E	E	E		
Octadecanoic Acid	X	X	X	G	E		
Octanol	E	G	E	E	E		
Octyl Alcohol	E	G	E	E	E		
Oil - Castor	G	G	G	G	G	A	A
Oil - Coconut	G	C	F	G	G	A	A
Oil - Corn	G	G	G	C	G	A	A
Oil - Cotton Seed	G	G	G	G	G	A	A
Oil - Fuel	G	G	G	G	G	A	X
Oil - Linseed	G	G	G	G	G	A	A
Oil - Mineral	G	E	G	E	G	A	A
Oil - Silicon	G	E	G	G	G	A	A
Oil - Vegetable	G	G	G	E	E	A	X
Oils, Animal	E	E	E	E	E		
Oleic Acid	G	F	G	C	E	A	X
Oleum	G	X	G	G	G	X	X
Olive Oil	E	G	G	E	E		E
Ortho-Dichlorobenzene		E		E	E		
Oxalic Acid	G	C	X	X	X	X	A
Oxygen	G	G	G	G	G	X	X
Ozone	E	E	E	E	E		E
Paint (inorganic)	E	E		E	E		
Palm Oil	E	E	E	E	E		
Palmitic Acid	G	F	F	G	G	X	A
Paraffin	G	G	G	G	G	A	A
Paraformaldehyde	E			E	E		
Peanut Oil	E	E	E	E	E		E
Pentasol	E	E	E	E	E		
Perchloric Acid			F	G	E		E
Perchloroethylene	G	G	G	C	C	X	X
Petrolatum	G	C	F	G	G	A	C
Petroleum Ether		E	G	E	E		
Phenol (Carbonic Acid)	E	E	F	C	E	X	X
Phenyl Chloride	E	E	E	E	E		X
Phorone		E	E	E	E		
Phosphoric Acid (25-50%)	X	X	X	C	C	X	A
Phosphoric Acid (50-85%)	X	X	X	C	C	X	A
Photographic Solutions	C	C	X	E	E	X	X
Phthalic Anhydride	C	G	G	E	E	X	X
Picric Acid	E	X	X	G	G	X	C
Plating Solutions - Brass	C	C	C	C	G	X	A
Plating Solutions - Cadmium	C	G	C	C	G	X	A
Plating Solutions - Chrome (40%)	X	C	X	G	G	X	A
Plating Solutions - Copper Cyanide	C	C	C	C	C	X	A
Plating Solutions - Gold	C	C	C	C	E	X	A
Plating Solutions - Iron	C	C	C	C	C	X	A
Plating Solutions - Lead	C	C	C	E	E	X	A
Plating Solutions - Nickel	C	C	C	E	E	X	A
Plating Solutions - Silver	C	C	C	E	E	X	A
Plating Solutions - Tin	C	C	C	C	F	X	A
Plating Solutions - Zinc	C	C	C	C	C	X	A

MATERIAL	Aluminum	Brass	Carbon Steel	Stainless Steel, 304	Stainless Steel, 316	Nylon	Poly-Propylene
Potash		X	G	E	E		E
Potassium Acetate	X	X	G	C	C	A	A
Potassium Bicarbonate (30%)	X	G	G	E	E	A	A
Potassium Carbonate (50%)	X	G	G	E	E	A	A
Potassium Chlorate (30%)	G	X	G	G	E	X	A
Potassium Chloride (30%)	X	X	G	C	C	A	A
Potassium Chromate (30%)	G	G	C	G	G	X	A
Potassium Cyanide (30%)	X	X	G	G	G	X	A
Potassium Dichromate (30%)	E	G	G	E	E	X	A
Potassium Hydroxide (90%)	X	X	C	X	C	X	A
Potassium Nitrate (80%)	E	G	G	G	G	X	A
Potassium Permanganate (20%)	G	G	G	G	G	X	A
Potassium Sulfate (10%)	E	G	G	E	E	A	A
Propane	E	E	G	G	G	X	X
Propionic Acid			E	E			
Propylene Glycol	G	G	G	G	G	A	A
Propylene Oxide (90%)	C	C	C	E	E	X	X
Purina insecticide	E	G	E	E	E		
Puropale RX Oils	E	E	E	E	E		
Pydraul 10E, 29E-LT, 30E, 60, 65E, 115SE	E	E	E	E	E		
Pyrene	X	G	X	G	G	A	X
Pyridine	G	G	G	G	G		X
Pyrogallic Acid	G	G	G	G	G	X	X
Pyroguard 160, 230, 630			E	E	E		
Pyroguard 51, 53, 55			E	E	E		
Pyroguard C, D	E	E	E	E	E		
Quenching Oil	E			E	E		
Quintolubric 822	E	E	E	E	E		
Ramrod (Ag Spray)	E	E	E	E	E		
Rando Oils	E	E	E	E	E		
Rapeseed Oil	E	E	E	E	E		
Red Oil (MIL-5606)	E	G	G	G	E		E
Refined Wax (Petroleum)		E	E	E	E		
Regal Oils R&O	E	E	E	E	E		
Salicyclic Acid	G			E	E		
Salt Water		G	G	E	E		
Sewage	G	E	X	E	E		
Silicone Greases		E	E	E	E		
Silicone Oils		E	E	E	E		
Silver Nitrate	X	X	X	G	E	X	A
Skydrol 500A & 7000	E		E	E	E		
Soap Solutions	G	G	G	G	G	A	A
Soda Ash	X	G	E	E	E		E
Sodium Acetate	E	G	X	G	G	A	A
Sodium Bicarbonate - 20%	G	G	F	E	E	A	A
Sodium Bisulfate	X	C	G	C	C	A	A
Sodium Bisulfite	X	G	X	C	C	A	A
Sodium Borate	G	G	F	G	G	A	A
Sodium Carbonate	X	G	G	C	G	A	A
Sodium Chlorate - 50%	G	G	X	G	G	X	A
Sodium Chloride	X	X	G	G	E		
Sodium Chromate	X	X	G	E	E		
Sodium Cyanide	X	X	G	C	C	A	A
Sodium Dichromate	G	X	G	G	G	X	A
Sodium Fluoride (70%)					G		
Sodium Hydrochloride - 30%	X	G	G	C	C	X	A
Sodium Hydroxide - 30%	X	G	G	E	E	X	A
Sodium Hydroxide - 50%	X	X	F	E	C	X	A
Sodium Hydroxide - 70%	X	X	F	G	G	X	A
Sodium Hydroxide (40%)	X	X	G	E	E		
Sodium Hypochlorite	X	X	X	C	C	X	A
Sodium Metaphosphate	X	X	X	G	G	X	X
Sodium Nitrate - 40%	E	G	G	E	E	A	A
Sodium Perborate - 10%	G	X	G	G	G	X	A
Sodium Perborate - 10%	G	X	G	G	G	X	A
Sodium Peroxide - 10%	G	X	G	G	G	X	A
Sodium Phosphate	X	X		E	E		

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COUPLING MATERIAL CORROSION RESISTANCE

Ratings given are based at +70°F (+21°C).

MATERIAL	Aluminum	Brass	Carbon Steel	Stainless Steel, 304	Stainless Steel, 316	Nylon	Poly-Propylene
Sodium Silicate	E	G	G	G	G	A	A
Sodium Sulfate	C	G	G	C	E	A	A
Sodium Sulfide - 50%	X	X	G	C	G	X	A
Sodium Thiosulphate	G	X	X	G	G	A	A
Solnus Oils	E	E	E	E	E		
Soybean Oil			E	E	E		
Spent Acid				E	E		
Stannic Chloride	X	X	X	X	X	X	A
Stannous Chloride	X	X	X	X	C	X	X
Starch Gum				E	E		E
Stauffer Jet 1	E	E	E	E	E		
Stauffer Jet 2	E	E	E	E	E		
Steam	C	C	C	C	C	X	C
Stearic Acid	G	F	F	G	E	A	A
Stoddard's Solvent	G	G	G	G	G	X	A
STPP (Sodium Tripolyphosphate)	X	X		E	E		
Styrene	X	G	G	X	G		
Sucrose Solutions			E	E	E		
Sugar Liquors (Beet)	E	G	G	E	E	A	A
Sugar Liquors (Cane)	E	G	G	G	G	A	A
Sulfate Liquors	G	X	F	C	G	X	A
Sulfite Liquors	X	X	X	G	G	X	X
Sulfur Chloride	X	C	X	C	C	X	X
Sulfur Dioxide (Dry)	G	G	E	C	G	X	A
Sulfur Trioxide	G	G	G	C	G	X	X
Sulfuric Acid - 100%	X	X	G	C	C	X	X
Sulfuric Acid to 10%	X	G	X	X	X	X	A
Sulfurous Acid	G	G	X	X	C	X	A
Sun R&O Oils	E		E	E	E		
Suntac HP Oils	E		E	E	E		
Suntac WR Oils	E		E		E		
Sunvis Oils 700, 800, 900			E	E	E		
Synthetic Oil (Citgo)			E	E	E		
Syrup			E	E	E		
Tall Oil				X	G		
Tall Oil under 150°F				X	G		
Tallow	E	G	G	G	G		
Tannic Acid	X	C	X	G	G	X	A
Tanning Liiquors	E	C	C	E	E	X	A
Tar Under 100°F	E	G	E	E	E		
Tartaric Acid	C	C	C	E	E	A	A
Tellus Oils	E	E	E	E	E		
Tenol Oils			E	E	E		
Tergitol		G	G	E	E		
Tetrahydrofuran	X	C	E	1	G	A	X
Tetrahydrofuran (THF)			G				X
Theobromo Oil			E	E	E		
Titanium Tetrachloride	X	X	G	C	G	X	X
Toluene	E	E	E	E	E	A	X
Toluene Diisocyanate			E	E	E		
Tomato Juice	G	C	F	G	G	X	A
Transformer Oil (Askarel Types)		E	E	E	E		G
Transformer Oil (Petroleum Types)	E	E	E	E	E		
Transmission Fluid		E	E	E	E		
Tributoxyethyl Phosphate	X		E				
Tributyl Phosphate	X		E				
Trichloroethylene	E	C	G	C	C	A	X
Trichloroethylene	X	E	X		E		
Tricresyl Phosphate	X		E		G		
Triethanolamine	G	X	G	G	G	A	X
Triethylamine	C	C	C	G	G	A	X
Trihydroxybenzoic Acid			X	E	E		E
Trinitriphenol	X	X	X	E	E		
Trisodium Phosphate	X	G	G	E	E	A	A
Tung Oil	E	E	E	E	E		
Turpentine	G	X	G	E	E	X	X

MATERIAL	Aluminum	Brass	Carbon Steel	Stainless Steel, 304	Stainless Steel, 316	Nylon	Poly-Propylene
Ucon Hydrolube Types 150CP, 200CP	E	E	E	E	E		
Ucon M1	E	E	E	E	E		
Union Hydraulic Tractor Fluid	E	E	E	E	E		
Urea - 50%	G	C	G	G	G	A	A
Urine	C	C	G	E	E	X	A
Varnish		G	G	E	E		
Vegetable Oils	E		E	E	E		
Versilube F-50, F-44	E	E	E	E	E		
Vinegar	G	X	G	G	G	X	A
Vinyl Acetate	E	G		E	G		
Vinyl Chloride	E	X	G	E	E		
Vitrea Oils			E	E	E		
VM&P Naptha	G	E	E	E	E		
Water (Distilled)	X	G	X	G	G	A	A
Water (Sea)	G	G	X	G	G	A	A
Water Acid (Mine)	X	X	X	C	C	X	A
Whiskey	X	G	G	E	E	X	A
White Liquor	G	C	X	G	G	X	A
Wine	X	G	X	E	E	X	A
Xylene	G	G	G	G	G	A	X
Zeric				E	E		
Zinc Chloride	X	X	X	X	G	A	A
Zinc Nitrate	C	C	C	G	G	X	A
Zinc Sulfate - 50%	X	G	X	E	E	X	A

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TECHNICAL INFORMATION

DECIMAL & MILLIMETER EQUIVALENTS OF FRACTIONS AND VACUUM CONVERSION TABLE

DECIMAL AND MILLIMETER EQUIVALENTS OF FRACTIONS

1 inch = 25.4 millimeters

Fractional Inch				Decimal	
1/64	1/32	1/16	1/8	inch	mm
1				0.016	0.40
2	1			0.031	0.79
3				0.047	1.19
4	2	1		0.063	1.59
5				0.078	1.98
6	3			0.094	2.38
7				0.109	2.78
8	4	2	1	0.125	3.18
9				0.141	3.57
10	5			0.156	4.00
11				0.172	4.40
12	6	3		0.188	4.80
13				0.203	5.20
14	7			0.219	5.60
15				0.234	6.00
16	8	4	2	0.250	6.40
17				0.266	6.70
18	9			0.281	7.10
19				0.297	7.50
20	10	5		0.313	7.90
21				0.328	8.30
22	11			0.344	8.70
23				0.359	9.10
24	12	6	3	0.375	9.50
25				0.391	9.90
26	13			0.406	10.30
27				0.422	10.70
28	14	7		0.438	11.10
29				0.453	11.50
30	15			0.469	11.90
31				0.484	12.30
32	16	8	4	0.500	12.70

1 INCH = 25.4 MILLIMETERS

1 inch = 25.4 millimeters

Fractional Inch				Decimal	
1/64	1/32	1/16	1/8	inch	mm
33				0.516	13.10
34	17			0.531	13.50
35				0.547	13.90
36	18	9		0.563	14.30
37				0.578	14.70
38	19			0.594	15.10
39				0.609	15.50
40	20	10	5	0.625	15.90
41				0.641	16.30
42	21			0.656	16.70
43				0.672	17.10
44	22	11		0.688	17.50
45				0.703	17.90
46	23			0.719	18.30
47				0.734	18.70
48	24	12	6	0.750	19.10
49				0.766	19.50
50	25			0.781	19.80
51				0.797	20.30
52	26	13		0.813	20.60
53				0.828	21.00
54	27			0.844	21.40
55				0.859	21.80
56	28	14	7	0.875	22.20
57				0.891	22.60
58	29			0.906	23.00
59				0.922	23.40
60	30	15		0.938	23.80
61				0.953	24.20
62	31			0.969	24.60
63				0.984	25.00
64	32	16	8	1.000	25.40

VACUUM CONVERSION TABLE FOR WATER (SUCTION)

ATM	PSI	Meter(s)	Feet	mm	In Hg	%
0.1	1.40	1	3 ft. 3-3/8 in.	73.60	2.90	10
0.2	2.80	2	6 ft. 6-3/4 in.	147.10	5.80	20
0.3	4.20	3	9 ft. 10-1/8 in.	220.70	8.70	30
0.4	5.70	4	13 ft. 1-1/2 in.	294.20	11.60	40
0.5	7.10	5	16 ft. 4-13/16 in.	367.80	14.50	50
0.6	8.50	6	19 ft. 8-3/16 in.	441.30	17.40	60
0.7	10.00	7	22 ft. 11-9/16 in.	514.90	20.30	70
0.8	11.40	8	26 ft. 2-15/16 in.	588.40	23.20	80
0.9	12.80	9	29 ft. 6-3/8 in.	662.00	26.00	90
1.0	14.20	10	32 ft. 9-11/16 in.	735.50	29.00	100

TECHNICAL INFORMATION
TEMPERATURE CONVERSION

Look up reading in middle column (shaded). If in degrees Centigrade, read Farenheit equivalent in right-hand column; if in Farenheit degrees, read Centigrade equivalent in left-hand column.

°F = (°C x 1.8) +32 **°C = (°F - 32) x .5556**

C	C F	F	C	C F	F	C	C F	F
-51	**-60**	-76	.6	**33**	91.4	22.2	**72**	161.6
-46	**-50**	-58	1.1	**34**	93.2	22.8	**73**	163.4
-40	**-40**	-40	1.7	**35**	95.0	23.3	**74**	165.2
-34	**-30**	-22	2.2	**36**	96.8	23.9	**75**	167.0
-29	**-20**	-4	2.8	**37**	98.6	24.4	**76**	168.8
-23	**-10**	14	3.3	**38**	100.4	25.0	**77**	170.6
-17.8	**0**	32	3.9	**39**	102.2	25.6	**78**	172.4
-17.2	**1**	33.8	4.4	**40**	104.0	26.1	**79**	174.2
-16.7	**2**	35.6	5.0	**41**	105.8	26.7	**80**	176.0
-16.1	**3**	37.4	5.6	**42**	107.6	27.2	**81**	177.8
-15.6	**4**	39.2	6.1	**43**	109.4	27.8	**82**	179.6
-15.0	**5**	41.0	6.7	**44**	111.2	28.3	**83**	181.4
-14.4	**6**	42.8	7.2	**45**	113.0	28.9	**84**	183.2
-13.9	**7**	44.6	7.8	**46**	114.8	29.4	**85**	185.0
-13.3	**8**	46.4	8.3	**47**	116.6	30.0	**86**	186.8
-12.8	**9**	48.2	8.9	**48**	118.4	30.6	**87**	188.6
-12.2	**10**	50.0	9.4	**49**	120.2	31.1	**88**	190.4
-11.7	**11**	51.8	10.0	**50**	122.0	31.7	**89**	192.2
-11.1	**12**	53.6	10.6	**51**	123.8	32.2	**90**	194.0
-10.6	**13**	55.4	11.1	**52**	125.6	32.8	**91**	195.8
-10.0	**14**	57.2	11.7	**53**	127.4	33.3	**92**	197.6
-9.4	**15**	59.0	12.2	**54**	129.2	33.9	**93**	199.4
-8.9	**16**	60.8	12.8	**55**	131.0	34.4	**94**	201.2
-8.3	**17**	62.6	13.3	**56**	132.8	35.0	**95**	203.0
-7.8	**18**	64.4	13.9	**57**	134.6	35.6	**96**	204.8
-7.2	**19**	66.2	14.4	**58**	136.4	36.1	**97**	206.6
-6.7	**20**	68.0	15.0	**59**	138.2	36.7	**98**	208.4
-6.1	**21**	69.8	15.6	**60**	140.0	37.2	**99**	210.2
-5.6	**22**	71.6	16.1	**61**	141.8	37.8	**100**	212.0
-5.0	**23**	73.4	16.7	**62**	143.6			
-4.4	**24**	75.2	17.2	**63**	145.4			
-3.9	**25**	77.0	17.8	**64**	147.2	43	**110**	230
-3.3	**26**	78.8	18.3	**65**	149.0	49	**120**	248
-2.8	**27**	80.6	18.9	**66**	150.8	54	**130**	266
-2.2	**28**	82.4	19.4	**67**	152.6	60	**140**	284
-1.7	**29**	84.2	20.0	**68**	154.4	66	**150**	302
-1.1	**30**	86.0	20.6	**69**	156.2	71	**160**	320
-0.6	**31**	87.7	21.1	**70**	158.0	77	**170**	338
0	**32**	89.6	21.7	**71**	159.8	82	**180**	356

TECHNICAL INFORMATION
IND. HOSE CONVERSION FACTORS

TO CONVERT	INTO	MULTIPLY BY
ATMOSPHERES	cms of mercury	76.0
atmospheres	ft. of water (at 4°C)	33.90
atmospheres	in. of mercury (at 0°C)	29.92
atmospheres	kgs/sq cm	1.0333
atmospheres	kgs/sq meter	10.332
atmospheres	pounds/sq in	14.70
BAR	newtons/sq m	10^5
bar	atmospheres	0.9869
bar	at (tech.)	1.0197
bar	psi	14.504
BARRELS - OIL	gals/oil	42
BT UNITS	kg-calories	0.2520
BTUs	ft.-lbs	777.9
BTUs	hp-hrs	3.927×10^{-4}
BTUs	kg-meters	107.5
BTUs	kw-hrs	2.928×10^{-4}
CENTIMETERS	inches	0.3937
cm	meters	0.01
cm	mm	10
CMS MERCURY	atm	0.3937
cms mercury	ft water	0.4461
cms mercury	kgs/sq meter	136.0
cms mercury	lbs/sq ft	27.85
cms mercury	lbs/sq in	0.1934
CMS/SECOND	ft/min	1.969
cms/sec	ft/sec	0.03281
cms/sec	km/hr	0.036
cms/sec	meter/min	0.6
cms/sec	miles/min	3.728×10^{-4}
CMS/SEC/SEC	ft/sec/sec	0.03281
CUBIC CMS	cu/ft	3.531×10^{-5}
cu cms	cu in	3.102×10^{-2}
cu cms	cu meters	10^6
cu cms	cu yards	1.308×10^{-6}
cu cms	gals	2.642×10^{-4}
cu cms	liters	10^{-3}
cu cms	pints (liq)	2.113×10^{-3}
cu cms	quarts (liq)	1.057×10^{-3}
CUBIC FEET	cubic cms	2.832×10^{-4}
cu ft	cu inches	1728
cu ft	cu meters	0.02832
cu ft	cu yards	0.03704
cu ft	gals	7.48052
cu ft	liters	28.32
cu ft	pints (liq)	59.48
cu ft	quarts (liq)	29.32

TO CONVERT	INTO	MULTIPLY BY
CUBIC FT/MIN	cu cms/sec	472.0
cu ft/min	gals/sec	0.1247
cu ft/min	liters/sec	0.4720
cu ft/min	lbs water/min	62.43
cu ft/sec	gals/min	448.831
CUBIC INCHES	cc	16.39
cu ins	cu ft	5.787×10^{-4}
cu ins	cu meters	1.639×10^{5}
cu ins	cu yards	2.143×10^{-5}
cu ins	gals	4.329×10^{-3}
cu ins	liters	1.639×10^{-2}
cu ins	pints (liq)	0.03463
cu ins	quarts (liq)	0.01732
CUBIC METERS	cc	10^4
cu M	cu ft	35.31
cu M	cu meters	61.023
cu M	cu yards	1.308
cu M	gals	264.2
cu M	liters	10^3
cu M	pints (liq)	2113
cu M	quarts (liq)	1057
CUBIC YARDS	cu cms	7.646×10^5
cu yds	cu ft	27
cu yds	cu ins	46,656
cu yds	cu meters	0.7645
cu yds	gals	202.0
DECIMETERS	meters	0.1
DEGREES (ANGLE)	minutes	60
degs (angle)	radians	0.01745
degs (angle)	secs	3600
DEGREES/SEC	radians/sec	0.01745
degs/sec	revs/min	0.1667
degs/sec	revs/sec	0.002778
FEET	cms	30.48
ft	ins	12
ft	meters	0.3048
ft	yds	1/3
FT. OF WATER	atms	0.02850
ft of w	ins mercury	0.8826
ft of w	kgs/sq cm	0.03048
ft of w	lbs/sq ft	62.32
ft of w	lbs/sq in	0.4328
FEET/MIN	cm/sec	0.5080
ft/min	ft/sec	0.01667
ft/min	kms/hr	0.01829
ft/min	meters/min	0.3048
ft/min	miles/hr	0.01136

TECHNICAL INFORMATION
IND. HOSE CONVERSION FACTORS

TO CONVERT	INTO	MULTIPLY BY
FT/SEC/SEC	cms/sec/sec	30.48
ft/sec/sec	meters/sec/sec	0.3048
FT - POUNDS	BTUs	1.286×10^{-3}
ft lbs	hp/hrs	5.050×10^{-7}
ft lbs	kg-calories	3.241×10^{-4}
ft lbs	kg-meters	0.1383
ft lbs	kw-hrs	3.766×10^{-7}
FT - LBS/MIN	BTUs/min	7.717×10^{-2}
ft - lbs/min	ft.-lbs/sec	0.01667
ft - lbs/min	hp	3.030×10^{-5}
ft - lbs/min	kg-calories/min	3.241×10^{-3}
ft - lbs/min	kws	2.260×10^{-5}
FT - LBS/SEC	BTUs/min	7.717×10^{-2}
ft - lbs/sec	hp	1.818×10^{-3}
ft - lbs/sec	kg-calories/min	1.945×10^{-2}
ft - lbs/sec	kws	1.356×10^{-3}
GALLONS	ccs	3785
gals	cu ft	0.1337
gals	cu ins	231
gals	cu meters	3.785×10^{-3}
gals	liters	3.785
gals	pints (liq)	8
gals	quarts (liq)	4
GALLONS, IMP	US gals	1.20095
gallons, US	Imp gals	0.83267
GALLONS/MIN	cu ft/sec	2.225×10^{-3}
gals/min	liters/sec	0.06308
gals/min	cu ft/hr	8.0208
HORSEPOWER	BTUs/min	42.44
hp	ft-lbs/min	33,000
hp	ft-lbs/sec	550
hp	hp (metric)	1.104
hp	kg-calories/min	10.70
hp	kws	0.7457
hp	watts	745.7
HP - HOURS	BTUs	2547
hp-hrs	ft-lbs	1.98×10^{8}
hp-hrs	kg-calories	641.7
hp-hrs	kg-meters	2.737×10^{5}
hp-hrs	kw-hrs	0.7457
INCHES	cms	2.540
INS MERCURY	atms	0.002458
ins mercury	ft-water	1.133
ins mercury	kgs/sq cm	0.03453
ins mercury	lbs/sq ft	70.73
ins mercury	lbs/sq in	0.4912

TO CONVERT	INTO	MULTIPLY BY
INS OF WATER	atms	0.002458
ins of w	ft-water	0.07355
ins of w	kgs/sq cm	0.002540
ins of w	lbs/sq ft	5.202
ins of w	lbs/sq in	0.03613
KILOGRAMS	dynes	980,665
kgs	lbs	2.205
kgs	ton (short)	1.102×10^{-3}
kgs	grams	1000
KGS/SQ CM	atms	0.9678
kgs/sq cm	ft-water	32.81
kgs/sq cm	ins mercury	28.96
kgs/sq cm	lbs/sq ft	2048
kgs/sq cm	lbs/sq in	14.22
KILOMETERS	cms	10^{5}
kms	ft	3281
kms	meters	10^{3}
kms	miles	0.6214
KMS/HR	cms/sec	27.78
kms/hr	ft/min	54.68
kms/hr	ft/sec	0.9113
kms/hr	meters/min	16.87
kms/hr	miles/hr	0.6214
KMS/HR/SEC	cms/sec/sec	27.78
kms/hr/sec	ft/sec/sec	0.9113
kms/hr/sec	meters/sec/sec	0.2778
KILOWATTS	BTUs/min	56.92
kws	ft-lbs/min	4.425×10^{4}
kws	ft-lbs/sec	737.6
kws	hp	1.341
kws	kg-calories/min	14.34
kws	watts	10^{3}
KILOWATTS - HOURS	BTUs	3415
kw-hrs	ft-lbs	2.655×10^{6}
kw-hrs	hp-hours	1.341
kw-hrs	kg-calories	860.5
kw-hrs	kw-meters	3.671×10^{5}
LITERS	ccs	103
liters	cu ft	0.03531
liters	cu ins	51.02
liters	cu meters	10^{-2}
liters	gals	0.2642
liters	quarts (liq)	1.057
LITERS/MIN	gals/sec	4.403×10^{-3}

TECHNICAL INFORMATION
IND. HOSE CONVERSION FACTORS

TO CONVERT	INTO	MULTIPLY BY
METERS	cms	100
meters	ft.	3.281
meters	ins	39.37
meters	kms	10^{3}
meters	mms	10^{3}
meters/min	cms/sec	1.667
meters/min	ft./min	3.281
meters/min	ft/sec	0.05468
meters/min	kms/hr	0.06
meters/min	miles/hr	0.03728
METERS/SEC	ft/min	196.8
meters/sec	ft/sec	3281
meters/sec	kms/hr	3.6
meters/sec	kms/min	0.06
meters/sec	miles/hr	2.237
meters/sec	miles/min	0.03728
MICRON	meters	10^{-8}
microns	in	39×10^{-6}
MILES/HR	cms/sec	44.70
miles/hr	ft./min	88
miles/hr	ft/sec	1.467
miles/hr	kms/hr	1.609
miles/hr	meters/min	26.82
MILLIMETERS	cms	0.1
mms	ins	0.0397
MINUTES (ANGLE)	radians	2.909×10^{-4}
NEWTON	kgs	0.1020
OUNCES	lbs	1.805
ozs	gram	28.349527
OUNCES (FLUID)	cu in	1.805
ozs (fluid)	liters	0.02957
POUNDS	ozs	16
lbs	tons (short)	0.005
lbs	newtons (N)	4.44
lbs	gram	453.5924
LBS OF WATER	cu ft	0.01605
lbs of water	cu in	27.73
lbs of water	gals	0.1204
LBS OF WATER/ MIN	cu ft/sec	2.679×10^{-4}
POUNDS/CU FT	lbs/cu in	5.787×10^{-4}
POUNDS/CU IN	lbs/cu ft	1728

TO CONVERT	INTO	MULTIPLY BY
POUNDS/SQ IN	atms	0.06804
lbs/sq in	ft water	2.311
lbs/sq in	in mercury	2.036
lbs/sq in	kgs/sq cm	0.07031
RADIANS	degrees	57.29578
TONS (LONG)	kgs	1016
tons (long)	lbs	2240
tons (long)	tons (short)	1.12000
TONS (SHORT)	kgs	2000
tons (short)	kps	907.18486
tons (short)	tons (long)	0.89287
tons (short)	tons (metric)	0.90718
WATTS	BTUs/min	0.05682
watts	ft-lbs/min	44.26
watts	ft-lbs/sec	0.7376
watts	hp	1.341×10^{-3}
watts	kg-calories/min	0.01434
watts	kws	10
WATTS/HOURS	BTUs	3.415
watts/hours	ft-lbs	2655
watts/hours	hp-hrs	1.341×10^{-3}
watts/hours	kg/calories	0.8605
watts/hours	kg-meters	367.1
watts/hours	kw-hrs	10^{-3}

TECHNICAL INFORMATION
PRESSURE RATING CONVERSION

TABLE 1: PSI TO BAR CONVERSION

PSI	BAR	PSI	BAR	PSI	BAR
1	0.07	30	2.07	210	14.48
2	0.14	35	2.41	220	15.17
3	0.21	40	2.76	230	15.86
4	0.28	45	3.10	240	16.55
5	0.34	50	3.45	250	17.24
6	0.41	55	3.79	275	18.96
7	0.48	60	4.14	300	20.68
8	0.55	65	4.48	325	22.41
9	0.62	70	4.83	350	24.13
10	0.69	75	5.17	375	25.86
11	0.76	80	5.52	400	27.58
12	0.83	85	5.86	425	29.30
13	0.90	90	6.21	450	31.03
14	0.97	95	6.55	475	32.75
15	1.03	100	6.89	500	34.47
16	1.10	110	7.58	550	37.92
17	1.17	120	8.27	600	41.37
18	1.24	130	8.96	650	44.82
19	1.31	140	9.65	700	48.26
20	1.38	150	10.34	750	51.71
21	1.45	160	11.03	800	55.16
22	1.52	170	11.72	850	58.61
23	1.59	180	12.41	900	62.05
24	1.66	190	13.10	950	65.50
25	1.72	200	13.79	1000	68.95

TABLE 2: BAR TO PSI CONVERSION

BAR	PSI	BAR	PSI	BAR	PSI
1	14.50	30	435.10	210	3046.0
2	29.01	35	507.60	220	3191.0
3	43.51	40	580.20	230	3336.0
4	58.02	45	652.70	240	3481.0
5	72.52	50	725.20	250	3626.0
6	87.02	55	797.70	275	3989.0
7	101.50	60	870.20	300	4351.0
8	116.00	65	942.70	325	4714.0
9	130.50	70	1015.0	350	5076.0
10	145.00	75	1088.0	375	5439.0
11	159.50	80	1160.0	400	5802.0
12	174.00	85	1233.0	425	6164.0
13	188.50	90	1305.0	450	6527.0
14	203.10	95	1378.0	475	6889.0
15	217.60	100	1450.0	500	7252.0
16	232.10	110	1595.0	550	7977.0
17	246.60	120	1740.0	600	8702.0
18	261.10	130	1885.0	650	9427.0
19	275.60	140	2031.0	700	10153.0
20	290.10	150	2176.0	750	10878.0
21	304.60	160	2321.0	800	11603.0
22	319.10	170	2466.0	850	12328.0
23	333.60	180	2611.0	900	13053.0
24	348.10	190	2756.0	950	13779.0
25	362.60	200	2901.0	1000	14504.0

NOTES

NOTES

TERMS, CONDITIONS AND LIMITED WARRANTY OF SALE

All prices, terms and conditions of sale are subject to change without prior notice. Buyer agrees to all terms and conditions of seller upon the placement of any and all purchase orders.

GENERAL

- All orders are subject to a minimum charge of $100.00.
- All claims must be made within seven (7) days of receipt of merchandise.
- The company reserves the right at all times to reject any and all orders for any reason.

PAYMENT TERMS

- Net 30 days (to approved and qualified accounts).
- We reserve the right to hold shipments against past due accounts.
- Seller may require full or partial payment in advance if, in its sole judgement, the financial condition of the buyer does not justify the terms specified.
- All past due accounts are subject to a late payment charge of 1.5% per month, or maximum allowed by law if different, along with the expenses incidental to collection including reasonable attorney's fees.
- Returned checks are subject to a minimum $50.00 charge.

ACCEPTANCE, ALTERATION AND CANCELLATION OF ORDERS

Orders for other than standard items or standard lengths may not be cancelled after purchase has been committed, production scheduled or any costs incurred.

RETURN OF DEFECTIVE MERCHANDISE

Defective or failed material to be held at the buyer's premises until authorization has been granted by seller to return or dispose of merchandise. Merchandise to be returned for final inspection must be returned Freight Prepaid in the most economical way. Credit will be issued for material found to be defective upon our inspection based on prices at time of purchase.

MERCHANDISE SHIPPED IN ERROR

Buyer must notify seller immediately on any merchandise shipped in error. Upon notification, merchandise is to be returned to seller either via truck on a Freight Collect basis, via carrier of our choice, or via UPS on a Freight Prepaid basis. Buyer will be reimbursed for cost of merchandise, plus any additional freight which may have been incurred due to shipping error.

MERCHANDISE ORDERED IN ERROR

Standard packaged merchandise only may be returned, provided that the merchandise is in the original buyer's possession not more than 30 days. If merchandise is accepted for return, merchandise must be returned Freight Prepaid, and buyer will be charged a minimum of 15% rehandling charge, plus a chargeback for outbound freight charges if the original order was shipped prepaid. Returns are not accepted for any merchandise that is specifically manufactured to meet the buyer's requirement of either specifications or large quantity.

DELIVERY, DAMAGES, SHORTAGES

Delivery to the initial common carrier shall constitute the delivery to the buyer. Our responsibility, insofar as transportation risks are concerned, ceases upon the delivery of the merchandise in good condition to such a carrier, and all the merchandise shall be shipped at the buyer's risk.

GOODS DAMAGED IN SHIPMENT

Upon receipt of shipment, any evidence of damage to original shipping package must be reported by the receiving party and a claim made with the delivering carrier upon receipt of shipment.

CONCEALED DAMAGE

Any evidence of damage to material shipped, upon the opening of the original shipping package, must be reported by the receiving party to and a claim made with the delivering carrier without delay.

LIMITED WARRANTY

The merchandise or products sold or distributed by Jason Industrial Inc. are warranted to our customers to be free from defects in material and workmanship at the time of shipment by us. All warranty claims shall be made within 90 days after we have shipped the merchandise. Our liability hereunder is limited to the purchase price of any merchandise proved defective, or, at our option, to the replacement of such merchandise upon its authorized return to us.

THIS WARRANTY IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES, EXPRESSED, IMPLIED, STATUTORY, OR OTHERWISE CREATED UNDER APPLICABLE LAW INCLUDING, BUT NOT LIMITED TO, THE WARRANTY OF MERCHANT ABILITY AND THE WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL WE BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING LOSS OF PROFITS.

NON CATALOGED HOSE REQUEST

While Jason catalogs many useful hose products for a multitude of applications, there is always the possibility that we may not catalog a hose item you need. By filling out this form, we will give our factories and Jason the opportunity to quote your request.

Company Name	Contact
Address	Phone
City	E-Mail
Salesman	Fax

Is there a hose we can cross over?

Manufacturer	Part Number

Please fill in the blanks:

ID	OD	WP PSI	Burst PSI	Length

Please answer the following questions:

Is this a suction hose or a discharge hose? _____

If a suction hose, what vacuum is required? _____

What is the maximum temperature of the material being conveyed? F _____

What is the application? Include any pertinent information such as abrasion, bend radius, external heat conditions and any oil/acid/chemical environment.

What end connections will be used and how will they be attached?

Are there special requirements such as color, static wire(s), approvals or branding/layline?

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