

Polyhose®

Providing Flexible Solutions Globally



RUBBER HYDRAULIC
THERMOPLASTIC - PTFE - UHP
SS FLEXIBLE - HYDRAULIC FITTINGS

ABOUT US

POLYHOSE is a diversified industrial conglomerate headquartered in the port city of Chennai India. The Fluid Conveyance, Division with modern manufacturing and, state of the art manufacturing facilities, managed by experienced technocrats and supported by technically qualified skilled manpower is focused on design, development, manufacturing and distribution of high quality and reliable fluid conveyance products .

The Fluid Conveyance division started its operations in the year 1996 and in 25 years it has established global footprints with presence in North and, South America, Europe, Middle East, Southeast Asia and Australia. Today POLYHOSE engages more than 3000 employees in its worldwide operations with an aspiration to become the most preferred brand in the international market by overcoming technical challenges, satisfying customer needs and providing one stop solution for fluid transmission.

POLYHOSE, now recognized as a world class manufacturer of Thermoplastic, PTFE, Rubber Hydraulic, Industrial, Composite, Stainless Steel Flexible hoses and Fluid Connectors has an annual capacity of 130 million meters. The Fluid conveyance products are manufactured using raw material sourced from the most reliable leading global sources.

POLYHOSE state of the art manufacturing facilities are accredited with ISO 9001-2015, ISO 14001-2015, ISO 13485-2016, TS16949-2016, AS9100-Rev D, NADCAP, thereby building a competitive advantage through robust processes and implementing operational excellence in each area of manufacturing to deliver world class POLYHOSE branded products.

International and Domestic POLYHOSE brand customers benefit from our scale of economy and the ultimate blend of quality, value & service. POLYHOSE looks forward to increasing its association with dynamic organizations in search of new developments in high-quality, value-rich hoses for Hydraulic, Industrial, Automotive, Aerospace, Life Science and other niche applications.



POLYHOSE IS COMMITTED TO

- On-time delivery of high performance products meeting customer requirements.
- Redefining polymer engineering.
- Deliver quality excellence exceeding international standards.
- Collaborative, long term partnerships with strategic customers.
- Global Presence and Support.



Our mantra to success is to redefining Innovation, redefining Customer Support and redefining Polymer Engineering

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POLYHOSE COVER OPTIONS

STANDARD COVER :

A synthetic rubber-based cover fully compliant with SAE, EN & ISO standards. Far from “standard” it surpasses minimum abrasion requirements by a factor of five and offers 2½ times the resistance to Ozone specified in the SAE/EN/ISO Standards.

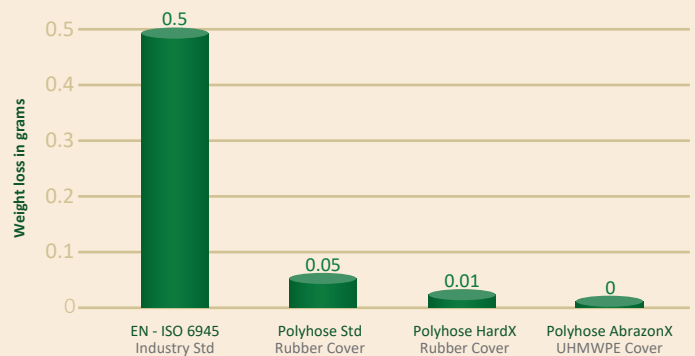
HARD-X COVER :

A cover specifically designed for superior abrasion resistance for use in demanding & extreme environmental conditions. Twenty-five times more resistant to abrasion than the minimum level specified in EN ISO 6945 and five times more resistant to Ozone than the Industry Standards.

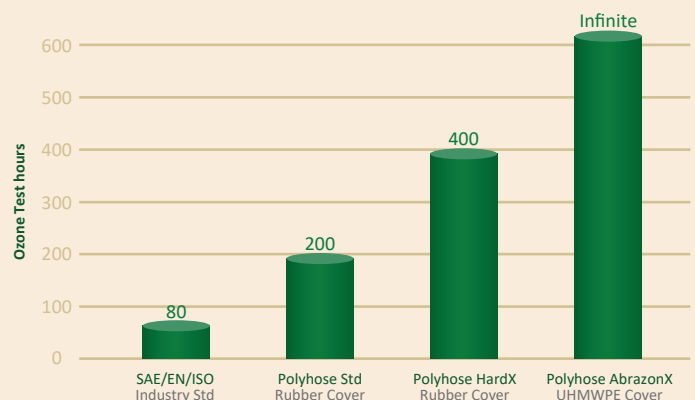
ABRAZON-X COVER :

This extraordinary cover is sealed and protected by an ultra-resilient UHMWPE film resulting in an off-the-scale resistance to abrasion and ozone – setting a standard of it’s own.

Abrasion Resistance as per EN - ISO 6945



Ozone Resistance as per EN ISO 7326



CONSTANT PRESSURE HOSE AND ISO 18752

Polyhose introduces a range of isobaric hoses meeting the requirements of ISO 18752, a system of constant pressure hoses. This standard helps the designer to specify the correct hose based on the application – pressure rating, low or high flexing, impulse cycle requirements, tight installations etc. ISO 18752 achieves this by classifying hoses by four grades of impulse performance at specified temperatures and each grade is offered in two designs – standard and compact. Compact hoses have a lower OD and have a tighter bend radius. The hose type is described by combining the performance grade and the then the design designation. For example, type AC refers to a “A” performance grade in a “C” compact OD hose design.

| ISO 18752 Hose Classification | | | | | |
|--------------------------------------|---|------|----------------|--|--------------------------------|
| Grade | Design (S=Standard OD C=Compact OD) | Type | Temperature °C | Impulse Test Pressure (% of Max Working Pressure) | Minimum Number of Cycles |
| A | S | AS | 100 | 133% | 200,000 |
| | C | AC | | | |
| B | S | BS | 100 | 133% | 500,000 |
| | C | BC | | | |
| C | S | CS | 120 | 133% 120% (for 350, 420 bar w.p) | 500,000 |
| | C | CC | | | |
| D | C | DC | 120 | 133% | 1,000,000 |

1. HOSE SELECTION AND ROUTING

A wide variety of interacting factors influence hose service life and the ability of each hydraulic fluid-power system to operate satisfactorily, and the combined effects of these factors on service life are often unpredictable. Therefore, hydraulic hose specification documents should not be construed as design standards. For applications outside the specifications in SAE J517, SAE J514, or other relevant design standards, performance of hose assemblies should be determined by appropriate testing.

Carefully analyze each system. Then design routings and select hose and related components to meet the system-performance and hose-service-life requirements, and to minimize the risks of personal injury and/or property damage. Consider the following factors:

1.1 System Pressures

Excessive pressure can accelerate hose assembly failure. Analyze the steady-state pressures, and the frequency and amplitude of pressure surges, such as pulses and spikes. These are rapid and transient rises in pressure which may not be indicated on many common pressure gages and can be identified best on high-frequency-response electronic measuring instruments.

For maximum hose assembly service life, hose selection should be based on a system pressure, including surges, that is less than the hose assembly maximum working pressure.

The maximum working pressure of a hose assembly comprised of hose and hose fittings shall not exceed the lower of the maximum working pressure specified for the respective hose and the connection end of the hose fittings.

1.2 Suction

For suction applications, such as inlet flow to pumps, select hose to withstand both the negative and positive pressures the system imposes on the hose.

1.3 External Pressure

In certain applications, such as in autoclaves or under water, the external environmental pressures may exceed the fluid pressure inside the hose. In these applications, consider the external pressures, and if necessary, consult the hose manufacturers.

1.4 Temperature

Exceeding hose temperature ratings may significantly reduce hose life. Select hose so the fluid and ambient temperatures, both static and transient, fall within the hose ratings. The effects of external heat sources should not raise the temperature of the hose above its maximum operating temperature. Select hose, heat shields, sleeving, and other methods for these requirements, and route or shield hose to avoid hose damage from external heat sources.

1.5 Permeation

Permeation, or effusion, is seepage of fluid through the hose. Certain materials in hose construction are more permeable than others. Consider the effects of permeation when selecting hose, especially with gaseous fluids. Consult the hose and fluid manufacturers for permeability information.

1.6 Compatibility Between Hose Materials and Hydraulic Fluids

Variables that can affect compatibility of system fluids with hose materials include, but are not limited to:

- i. Chemical properties
- ii. Fluid pressure
- iii. Temperature
- iv. Concentration level
- v. Exposure duration

Because of permeation, consider compatibility of system fluids with the hose, tube, cover, reinforcement, and fittings. Consult the fluid and hose manufacturers for compatibility information.

Rubber hoses should not be painted without consulting the hose manufacturer.

NOTE: Many fluid/elastomer compatibility tables in manufacturers' catalogs show ratings based on fluids at 21 °C, room temperature. These ratings may change at other temperatures. Carefully read the notes on the compatibility tables, and if in doubt, consult the manufacturer.

1.7 Environment

Environmental conditions can cause hose and fitting degradation. Conditions to evaluate include, but are not limited to:

1. Ultraviolet light
2. Saltwater
3. Air pollutants
4. Temperature (see 5.4)
5. Ozone
6. Chemicals
7. Electricity
8. Abrasion
9. Paint

If necessary, consult the manufacturers for more information about the effect of these and other environmental conditions.

1.8 Static-Electric Discharge

Fluid passing through hose can generate static electricity resulting in static-electric discharge. This may create sparks that can puncture hose. If this potential exists, select hose with sufficient conductivity to carry the static-electric charge to ground.

1.9 Sizing

The power transmitted by pressurized fluid varies with pressure and rate of flow. Select hose with adequate size to minimize pressure loss, and to avoid hose damage from heat generation or excessive velocity. Conduct calculations, or consult the manufacturers for sizing at flow velocities.

1.10 Unintended Uses

Hose assemblies are designed for the internal forces of conducted fluids. Do not pull hose or use it for purposes that may apply external forces for which the hose or fittings were not designed.

1.11 Specifications and Standards

When selecting hose and fittings for specific applications, refer to applicable government, industry, and manufacturer's specifications and standards.

1.12 Unusual Applications

Applications not addressed by the manufacturer or by industry standards may require special testing prior to selecting hose.

1.13 Hose Cleanliness

The cleanliness requirements of system components, other than hose assemblies, will determine the cleanliness requirements of the application. Consult the component manufacturers' cleanliness information for all components in the system. Hose assemblies vary in cleanliness levels; therefore, specify hose assemblies with adequate cleanliness for the system.

1.14 Hose Fittings

Selection of the proper hose fittings for the hose and application is essential for proper operation and safe use of hose and related assembly equipment. Hose fittings are qualified with the hose. Therefore, select only hose fittings compatible with the hose for the applications.

Improper selection of hose fittings or related assembly equipment for the application can result in injury or damage from leaks, or from hose assemblies blowing apart

1.15 Vibration

Vibration can reduce hose service life. If required, conduct tests to evaluate the effects of frequency and amplitude of system vibration on a hose assembly. Clamps or other means may be used to reduce the effects of vibration. Consider the vibration requirements when selecting hose and predicting service life.

1.16 Hose Cover Protection

Protect the hose cover from abrasion, erosion, snagging, and cutting. Special abrasion-resistant hoses and hose guards are available for additional protection. Route hose to reduce abrasion from hose rubbing other hose or objects that may abrade it. (See Figure 1.)

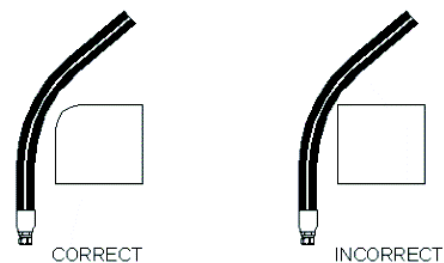


Figure 1.1 - Prevention of external damage

1.17 External Physical Abuse

Route hose to avoid:

- Tensile loads
- Side loads
- Flattening
- Thread damage
- Kinking
- Damage to sealing surfaces
- Abrasion
- Twisting

1.18 Swivel-Type Adapters

Swivel-type fittings or adapters do not transfer torque to hose while being tightened. Use these as needed to prevent twisting during installation.

1.19 Live Swivels

If two components in the system are rotating in relation to each other, live swivels may be necessary. These connectors reduce the torque transmitted to the hose.

1.20 Slings and Clamps

Use slings and clamps to support heavy or long hose and to keep it away from moving parts. Use clamps that prevent hose movement that will cause abrasion. Care shall be taken to prevent the sling clamp from abrading the hose. Avoid overtightening of slings or clamps.

1.21 Minimum Bend Radius

The minimum bend radius (R) of a hose is defined in relevant hose standards and hose manufacturer's product literature. Routing during assembly and use at less than minimum bend radius may reduce hose life. Sharp bending at the hose/fitting juncture may result in leaking, hose rupturing, or the hose assembly blowing apart (see 4.2 and Figures 2A and 2B). A minimum straight length (L) of 1.5 times the hose's outside diameter shall be allowed between the hose fitting and the point at which the bend starts.

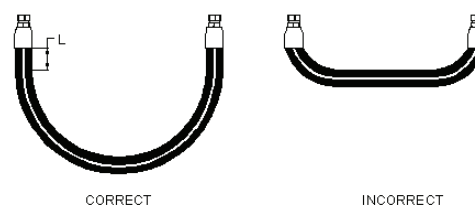


Figure 1.2A - Minimum bend radius

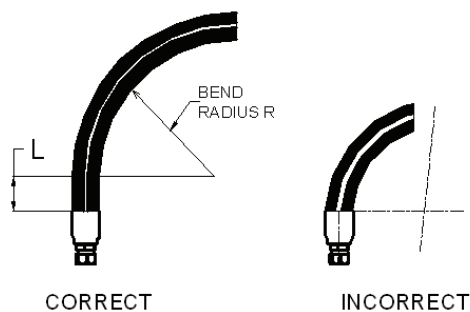


Figure 1.2B - Minimum bend radius

1.22 Elbows and Adapters

In special cases, use elbows or adapters to relieve hose strain (see Figure 3).

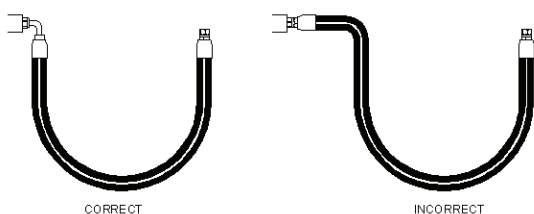


Figure 1.3 - Elbows and adapters

1.23 Lengths

Unnecessarily long hose can increase pressure drop and affect system performance. When pressurized, hose that is too short may pull loose from its fittings, or stress the hose fitting connections, causing premature metallic or seal failures. When establishing hose length, see Figures 4, 5, and 6, and use the following practices:

1.23.1 Motion Absorption

Provide adequate hose length to distribute movement and prevent bends smaller than the minimum bend radius.

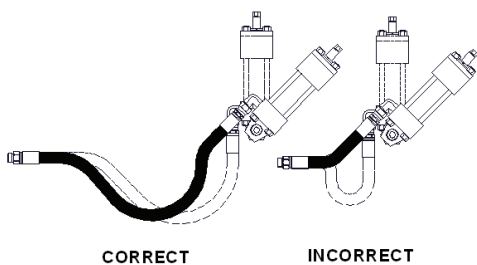


Figure 1.4 - Motion absorption

1.23.2 Hose and Machine Tolerances

Design hose to allow for changes in length due to machine motion and tolerances.

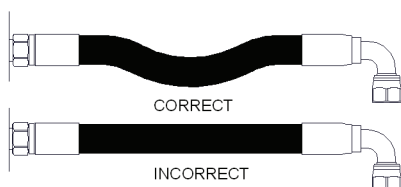


Figure 1.5 - Hose and machine tolerances

1.23.3 Hose Length Change Due to Pressure

Design hose to accommodate length changes from changing pressures. Do not cross or clamp together high- and low pressure hoses. The difference in length changes could wear the hose covers.

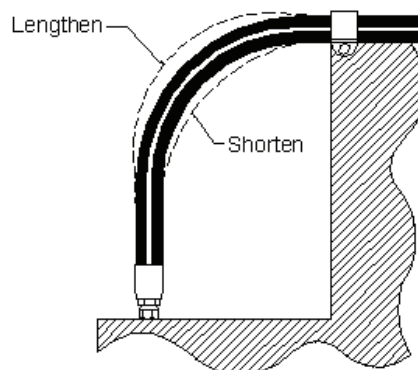


Figure 1.6 - Hose length change due to pressure

1.24 Hose Movement and Bending

Hose allows relative motion between system components. Analyze this motion when designing hose systems. The number of cycles per day may significantly affect hose life. Also avoid multiple planes of motion and twisting motion. Consider the motion of the hose when selecting hose and predicting service life. In applications that require hose to move or bend, see Figures 7A, 7B, and 8, and use these practices:

1.24.1 Bend in Only One Plane to Avoid Twisting

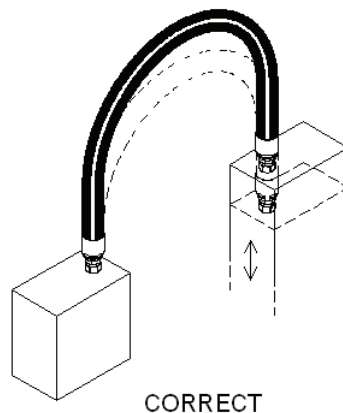


Figure 1.7A - Bend in only one plane to avoid twisting

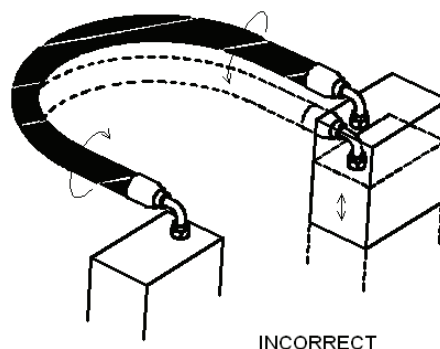


Figure 1.7B - Bend in only one plane to avoid twisting

1.24.2 Prevent Hose Bending in More Than One Plane

If hose follows a compound bend, couple it into separate segments, or clamp it into segments that each flex in only one plane.

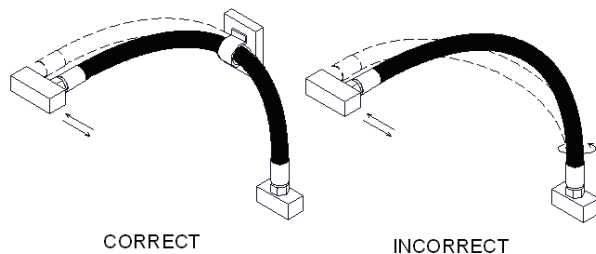


Figure 1.8 - Prevent hose bending in more than one plane

2.SAFETY CONSIDERATIONS

Listed in 2.1 to 2.7 are some potential conditions and situations that may lead to personal injury and/or property damage. This list is not necessarily all inclusive. Consider reasonable and feasible means, including those described in this section, to reduce the risk of injuries or property damage.

Training, including the information in this document, for operators, maintenance personnel, and other individuals working with hose assemblies under pressure is encouraged.

2.1 Fluid Injections

Fine streams of escaping pressurized fluid can penetrate skin and enter a human body. These fluid injections may cause severe tissue damage and loss of limb.

Consider various means to reduce the risk of fluid injections, particularly in areas normally occupied by operators. Such means include: careful routing, adjacent components, warnings, guards, shields, and training programs.

Relieve pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure.

Avoid contact with escaping fluids. Treat all leaks as though pressurized and hot enough to burn skin. Never use any part of your body to check a hose for leaks.

If a fluid-injection accident occurs, see a doctor immediately. **DO NOT DELAY OR TREAT AS A SIMPLE CUT!** Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should consult a knowledgeable medical source.

2.2 Whipping Hose

If a pressurized hose assembly blows apart, the fittings can be thrown off at high speed, and the loose hose can flail or whip with great force. This is particularly true in compressible-fluid systems.

When this risk exists, consider guards and restraints to protect against injury.

2.3 Burns from Conveyed Fluids

Fluid-power media may reach temperatures that can burn human skin. If there is risk of burns from escaping fluid, consider guards and shields to prevent injury, particularly in areas normally occupied by operators.

2.4 Fire and Explosions from Conveyed Fluids

Most fluid-power media (hydraulic fluid), including fire-resistant hydraulic fluids, will burn under certain conditions. Fluids which escape from pressurized systems may form a mist or fine spray which can flash or explode upon contact with an ignition source.

Consider selecting, guarding, and routing hose to minimize the risk of combustion (see Section 5 and ISO 3457).

2.5 Fire and Explosions from Static-Electric Discharge

Fluid passing through hose can generate static electricity, resulting in static-electric discharge. This may create sparks that can ignite system fluids or gases in the surrounding atmosphere.

When this potential exists, select hose specifically designed to carry the static-electric charge to ground.

2.6 Electrical Shock

Electrocution could occur if hose conducts electricity through a person. Most hoses are conductive. Many contain metal or have metal hose fittings attached. Even nonconductive hoses can be conduits for electricity if they carry conductive fluids.

Be aware of routing or using hose near electrical sources. When this cannot be avoided, select appropriate hose. Nonconductive hoses should be considered. SAE J517 - 100R7 and 100R8 hoses, with orange covers marked "nonconductive" are available for applications requiring nonconductive hose.

2.7 Mechanisms Controlled by Fluid Power

Mechanisms controlled by fluids in hoses can become hazardous when a hose fails. For example, when a hose bursts, objects supported by fluid pressure may fall, or vehicles or machines may lose their brakes or steering.

If mechanisms are controlled by fluid power, consider safe modes of failure that minimize risks of injury or damage

3.HOSE STORAGE

Age control and the manner of storage can affect hose life. Use the following practices when storing hose.

3.1 Age Control

Maintain a system of age control to determine that hose is used before its shelf life has expired. Shelf life is the period of time when it is reasonable to expect the hose to retain full capabilities for rendering the intended service.

Store hose in a manner that facilitates age control and first-in, first-out usage based on manufacturing date on hose or hose assembly.

For long-term storage, the following maximum storage periods are recommended, unless otherwise specified in the respective product standard or as specified by the hose supplier:

a. For bulk hoses (without fittings attached), maximum of 4 years from the date of manufacture, if stored in accordance with ISO 8331.

b. For hose assemblies, maximum of 2 years.

These two periods can be interpreted as consecutive for a maximum storage duration of 6 years (4 years as bulk hose plus 2 years as hose assembly).

3.2 Storage

Hose and hose assemblies shall be stored in accordance with the storage conditions defined in ISO 8331. When storing hose, take care to avoid damage that could reduce hose life, and follow the manufacturers' information for storage and shelf life. Examples of factors that can adversely affect hose products in storage are:

- a. Temperature
- b. Ozone
- c. Oils, gasoline, kerosene, or their vapors
- d. Corrosive liquids and fumes
- e. Rodents
- f. Humidity
- g. Ultraviolet light
- h. Solvents
- i. Insects
- j. Radioactive materials
- k. Direct sun or heat rays
- l. Acids, alkalis
- m. Sharp edges and abrasive surfaces
- n. Electric or strong magnetic fields
- o. Mold and fungi

If there are questions regarding the quality or usability of hose or hose assemblies, evaluate appropriately:

a. Flex the hose to the minimum bend radius and compare it with new hose. After flexing, examine the cover and tube for cracks. If any appear, no matter how small, reject the hose.

b. If the hose is wire reinforced, and the hose is unusually stiff, or a cracking sound is heard during flexing, check for corrosion by cutting away a section of the cover from a sample. Corrosion would be another reason for rejection.

c. If doubt still persists, contact hose assembler to conduct proof-pressure tests or any other tests needed to verify hose quality.

4. Hose Installation and Replacement

Use the following practices when installing hose assemblies in new systems or replacing hose assemblies in existing systems: The manufacturer should make available additional instructions on mounting, storage, and operating conditions.

4.1 Pre-Installation Inspection

Before installing hose assemblies, examine:

- a. Hose length and routing for compliance with original design
- b. Assemblies for correct style, size, length, and visible nonconformities
- c. Fitting sealing surfaces for burrs, nicks, or other damage

NOTE: When replacing hose assemblies in existing systems, verify that the replacement is of equal quality to the original assembly.

4.2 Handling During Installation

Handle hose with care during installation. Kinking hose, or bending at less than minimum bend radius may reduce hose life. Avoid sharp bending at the hose/fitting juncture (see 5.21). Before and during installation, hose assemblies should be at a temperature above 0 °C.

4.3 Twist Angle and Orientation

Pressure applied to a twisted hose may shorten the life of the hose or loosen the connections. To avoid twisting, the hose layline or marking can be used as a reference (see Figure 9) if the layline or marking is parallel to the axis of the hose. Twisting can also be avoided through the use of two wrenches during the installation of swivel connectors.

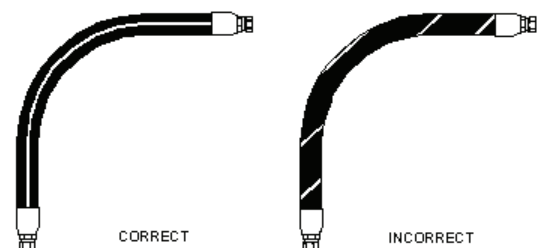


Figure 9 - Twist angle and orientation

4.4 Securement and Protection

Install necessary restraints and protective devices. Determine that such devices do not create additional stress or wear points.

4.5 Routing

Review proper routing practices provided in Section 5 and make appropriate corrections to obtain optimum performance.

4.6 Assembly Torque

The connection end of a hose fitting is normally threaded to obtain a tight pressure seal when attached to a port, an adapter, or another fitting. Sometimes bolts or screws provide the threaded connection. Each size and type of connection requires different torque values, and these may vary due to type of material, exterior coating, and/or lubrication.

Follow appropriate torquing instructions to obtain a proper pressure seal without over-torquing. A properly calibrated torque wrench should be used to tighten each connection, except when the hose fitting manufacturer specifies tightening a specified number of hex flat turns beyond finger tight to obtain a seal.

4.7 System Checkouts

In hydraulic or other liquid systems, eliminate all air entrapment after completing the installation. Follow manufacturers' instructions to test the system for possible malfunctions and leaks.

4.7.1 To avoid injury during system checkouts:

- a. Do not touch any part of the system when checking for leaks (see 4.1)
- b. Stay out of potentially hazardous areas while testing hose systems (see Section 4)
- c. Relieve system pressure before tightening connections

Selection of Hose Diameter from Flow Rate and Velocity

The Fluid Velocity Nomogram gives the velocity of a liquid or gas as a function of flow rate and inside diameter of the fluid line. The commonly recommended maximum velocities for hydraulic oil systems at 200°F or less are indicated for guidance.

Example: At 10 gpm, what is the minimum size within the recommended velocity range for a hydraulic pressure line? The dashed line drawn from the 10 gpm mark on the left hand line to the maximum velocity of 20 fps intersects the middle line at .438" (7/16" I. D. hose or tubing).

For a hose application, use 1/2" I. D., the nearest common standard size.

This chart is based on the following formulas: $V_{fps} = \frac{.321Q}{\frac{pd^2}{4}}$

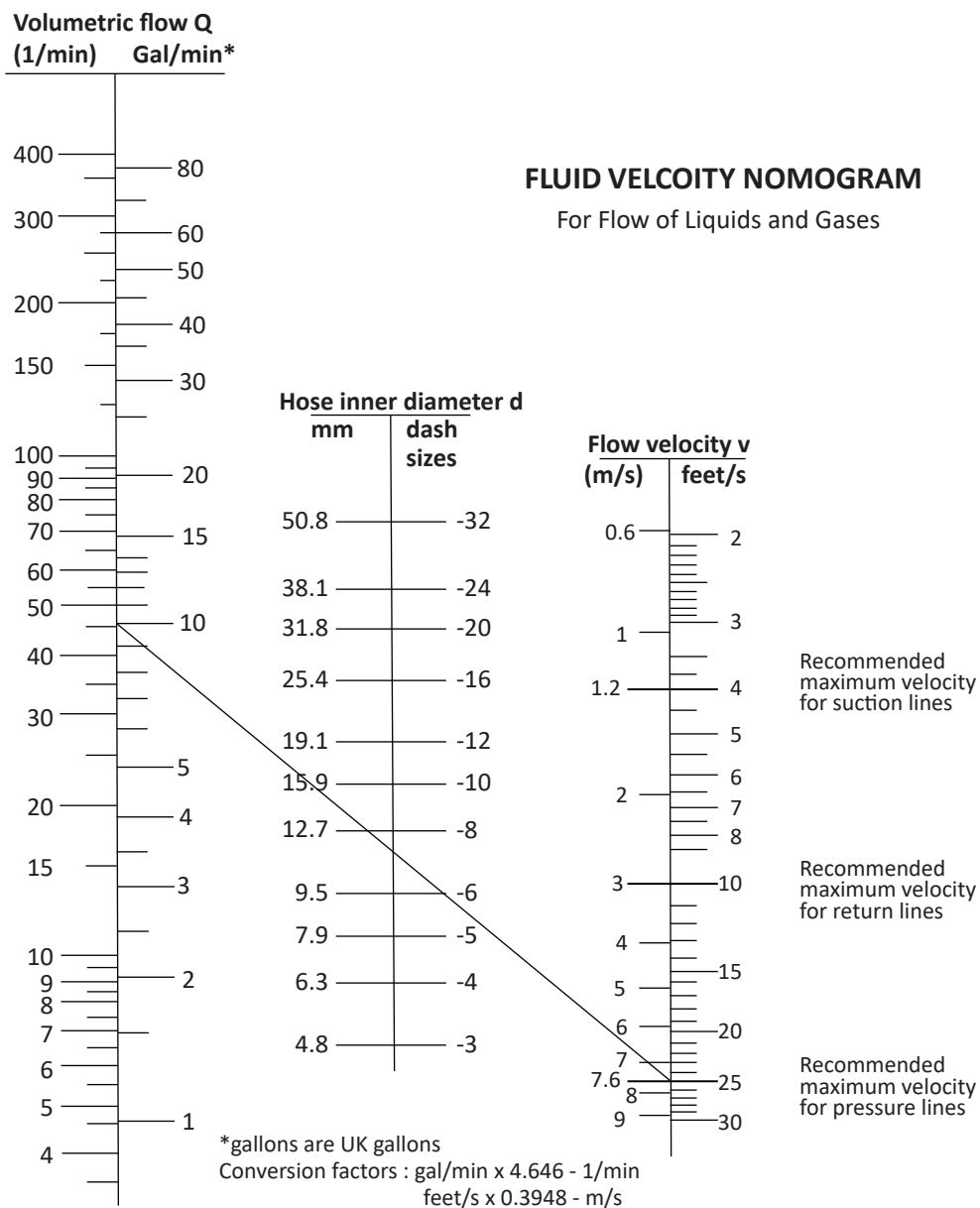
Q = gal per min

d = hose or tube I. D. (inch)

cu. ft./min. = .1337 Q

The cu. ft. per min. value is the actual Volume flow rate under flowing conditions.

For air, standard cfm of free air = 7.81 actual cfm when the inlet air is at 100 PSig 68°F.



Determination of Pressure Drop in the Line

$$\text{Velocity: } v = 0.409 = \frac{Q}{d^2} = 0.0509 = \frac{w}{pd^2} = \frac{q}{.785d^2}$$

$$\text{Reynold's Number: } Re = 124 \frac{dvp}{\mu} = 6.31 \frac{W}{d\mu} = 378 \frac{qp}{d\mu}$$

Pressure Drop, Isothermal, Incompressible Flow (Liquids):

$$\Delta P = .001294 = \frac{fLpv^2}{d} = .00000336 = \frac{fLW^2}{pd^5} = .0121 \frac{fLq^2}{.d^5}$$

Pressure Drop, Isothermal, Compressible, Long Lines (Gases and Vapors):

$$\frac{\Delta P}{P_1} = 1 - \sqrt{1 - \frac{fLp^1 v^1}{12 g d P_1}}$$

Symbols and Units for Listed Formulas

d = inside diameter of hose, inches

f = friction coefficient, dimensionless

g = gravitational constant, 32.2 ft./sec²

P1 = input pressure, PSI

ΔP = p pressure difference, PSI

q = rate of flow at flowing condition cu. ft./min

Q = rate of rate of flow, gals/min

Re = Reynolds number, dimensionless

v = flow velocity, ft./sec.

W = rate of flow, lbs./hr.

p = density weight of fluid, lbs./cu.ft.

μ = absolute (dynamic) viscosity, centipoises

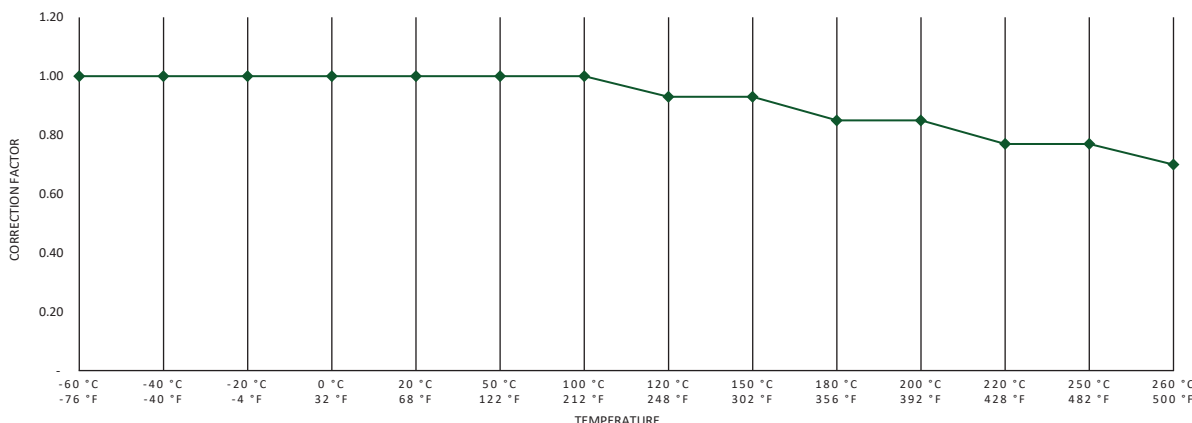
Temperature Correction Chart for PTFE hoses :

As the operating temperature of a hose assembly increases the Maximum Working Pressure of the assembly decreases. The material and method of fitting attachment determine the maximum pressure at which an assembly can be used. By using the factors given in the chart below, the approximate safe working pressure at elevated temperatures can be calculated for assemblies with crimped fittings.

To use this chart :

- 1 - Determine the maximum working temperature of the application
- 2 - Locate this temperature on the chart and select corresponding correct factor
- 3 - Multiply this factor by the Maximum Working Pressure as specified in Polyhose product specification table
- 4 - The resulted number is the approximate maximum safe working pressure at that elevated temperature.

| Temperature (°C) | -60 °C | -40 °C | -20 °C | 0 °C | 20 °C | 50 °C | 100 °C | 120 °C | 150 °C | 180 °C | 200 °C | 220 °C | 250 °C | 260 °C |
|-------------------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | -76 °F | -40 °F | -4 °F | 32 °F | 68 °F | 122 °F | 212 °F | 248 °F | 302 °F | 356 °F | 392 °F | 428 °F | 482 °F | 500 °F |
| Correction factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.93 | 0.93 | 0.85 | 0.85 | 0.77 | 0.77 | 0.70 |



PH253 - R1AT / 1SN

Applicable Standard : SAEJ517-100R1AT / EN 853-1SN / ISO 1436



Construction

Inner tube Black colour, Synthetic rubber resistant to oil and water

Reinforcement Single steel wire braid

Cover Black colour, Synthetic rubber resistant to abrasion and weather, oil & ozone. Available in Wrap and Smooth finish*

Application Medium Pressure Hydraulic Lines 10 to 250 bar. For use with petroleum, synthetic or water based fluids in Hydraulic systems. Suitable for Agricultural, Earthmoving & Material handling equipment and machineries/systems

| Cover options | Temperature usage option |
|-----------------------|---|
| PH253 : MSHA | PH553 : Low temperature -55°C to + 100°C |
| PH248 : HARDX MSHA | PH255 : High temperature MSHA cover -40°C to +135°C |
| PH298 : ABRAZONX MSHA | PH291 : Ultra high temperature MSHA cover -40°C to +150°C |

Note : Sizes 2-1/2" to 4" are not covered under SAEJ517-100R1AT/EN 853-1SN

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|-----|-------|-------|------|-------|------|-----|-------|------|------|------|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH253-03 | -03 | 05 | 3/16 | 5.1 | 0.45 | 11.5 | 3625 | 250 | 14500 | 1000 | 3.5 | 90 | 0.205 |
| PH253-04 | -04 | 06 | 1/4 | 6.7 | 0.52 | 13.1 | 3265 | 225 | 13050 | 900 | 3.9 | 100 | 0.262 |
| PH253-05 | -05 | 08 | 5/16 | 8.2 | 0.58 | 14.7 | 3120 | 215 | 12470 | 860 | 4.5 | 115 | 0.283 |
| PH253-06 | -06 | 10 | 3/8 | 9.8 | 0.67 | 17.1 | 2610 | 180 | 10440 | 720 | 4.9 | 125 | 0.383 |
| PH253-08 | -08 | 12 | 1/2 | 13.1 | 0.80 | 20.2 | 2320 | 160 | 9280 | 640 | 7.1 | 180 | 0.438 |
| PH253-10 | -10 | 16 | 5/8 | 16.2 | 0.92 | 23.3 | 1885 | 130 | 7540 | 520 | 7.9 | 200 | 0.536 |
| PH253-12 | -12 | 19 | 3/4 | 19.3 | 1.07 | 27.3 | 1525 | 105 | 6090 | 420 | 9.4 | 240 | 0.675 |
| PH253-16 | -16 | 25 | 1 | 25.9 | 1.39 | 35.3 | 1305 | 90 | 5150 | 355 | 11.8 | 300 | 1.008 |
| PH253-20 | -20 | 31 | 1.1/4 | 32.4 | 1.69 | 43.0 | 945 | 65 | 3700 | 255 | 16.5 | 420 | 1.443 |
| PH253-24 | -24 | 38 | 1.1/2 | 38.7 | 1.97 | 50.1 | 725 | 50 | 2900 | 200 | 19.7 | 500 | 1.735 |
| PH253-32 | -32 | 51 | 2 | 51.3 | 2.50 | 63.4 | 580 | 40 | 2320 | 160 | 24.8 | 630 | 2.352 |
| PH253-40 | -40 | 63 | 2.1/2 | 63.5 | 2.99 | 76.0 | 580 | 40 | 2105 | 145 | 29.9 | 760 | 2.640 |
| PH253-48 | -48 | 76 | 3 | 76.2 | 3.56 | 90.5 | 510 | 35 | 2030 | 140 | 35.4 | 900 | 3.798 |
| PH253-64 | -64 | 100 | 4 | 101.6 | 4.61 | 117.0 | 145 | 10 | 580 | 40 | 46.1 | 1170 | 4.928 |



Temperature Range: Continuous: -40°C to +100°C Intermittent: +120°C
Impulse Cycles: 150,000; Tested upto 300,000 cycles, upto 1" I.D

PH243 - 1ST

Applicable Standard : EN 853 - 1ST



Construction

Inner tube Black colour, synthetic rubber resistant to oil & water

Reinforcement Single steel wire braid

Cover Black colour, Synthetic rubber resistant to abrasion and weather, oil & ozone. Available in Wrap and Smooth finish*

Application Medium Pressure Hydraulic Lines 35 to 40 bar. For use with petroleum, synthetic or water based fluids in Hydraulic systems. Suitable for Agricultural, Earthmoving & Material handling equipment and machineries/systems

| Cover options |
|--------------------|
| PH243 : MSHA |
| PH280 : HARDX MSHA |

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|----|------|------|-----|-----|------|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH243-32 | -32 | 51 | 2 | 51 | 2.64 | 67.0 | 580 | 40 | 2320 | 160 | 24.8 | 630 | 2.801 |
| PH243-48 | -48 | 76 | 3 | 76 | 3.62 | 92.0 | 510 | 35 | 2030 | 140 | 35.4 | 900 | 3.936 |



Temperature Range: Continuous: -40°C to +100°C Intermittent : +120°C

*Smooth cover available only upto size 1"

PH257 - 1SC

Applicable Standard : EN 857 - 1SC / ISO 11237-1



Construction

Inner tube Black colour, synthetic rubber resistant to oil & water

Reinforcement Single steel wire braid

Cover Black colour, Synthetic rubber resistant to abrasion and weather, oil & ozone. Available in Wrap and Smooth finish*

Application Medium Pressure Hydraulic Lines 75 to 225 bar requiring compact outer dia and high flexibility for use with petroleum, synthetic or water based fluids in Hydraulic systems. Suitable for Agricultural, Construction & Material handling equipment and machineries/systems

| Cover options | Temperature usage option |
|---|---|
| PH257 : MSHA | PH557 : Low temperature -55°C to +100°C |
| | PH267 : High temperature MSHA cover -40°C to +135°C |
| | PH269 : Ultra high temperature MSHA cover -40°C to +150°C |
| Note : 1.1/4" 1SC not covered under EN857 | |

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|-------|------|------|------|------|-----|-------|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH257-04 | -04 | 06 | 1/4 | 6.7 | 0.51 | 13.0 | 3265 | 225 | 13050 | 900 | 2.0 | 50 | 0.216 |
| PH257-05 | -05 | 08 | 5/16 | 8.2 | 0.56 | 14.1 | 3120 | 215 | 12470 | 860 | 2.2 | 55 | 0.242 |
| PH257-06 | -06 | 10 | 3/8 | 9.8 | 0.64 | 16.3 | 2610 | 180 | 10440 | 720 | 2.4 | 60 | 0.308 |
| PH257-08 | -08 | 12 | 1/2 | 13.1 | 0.79 | 20.1 | 2320 | 160 | 9280 | 640 | 2.8 | 70 | 0.442 |
| PH257-10 | -10 | 16 | 5/8 | 16.2 | 0.89 | 22.5 | 1885 | 130 | 7540 | 520 | 3.5 | 90 | 0.481 |
| PH257-12 | -12 | 19 | 3/4 | 19.3 | 1.03 | 26.2 | 1525 | 105 | 6090 | 420 | 3.8 | 97 | 0.596 |
| PH257-16 | -16 | 25 | 1 | 25.9 | 1.35 | 34.2 | 1305 | 90 | 5150 | 355 | 5.9 | 150 | 0.885 |
| PH257-20 | -20 | 31 | 1.1/4 | 32.1 | 1.65 | 42.0 | 1090 | 75 | 4350 | 300 | 11.8 | 300 | 1.087 |



Temperature Range: Continuous: -40°C to +100°C Intermittent: +120°C
Impulse Cycles : 150,000; Tested upto 300,000 cycles, upto 1" I.D

PH296 - 1SNX - HP

Applicable Standard : Exceeds EN 857



Construction

Inner tube Black colour, Synthetic rubber resistant to oil and water

Reinforcement Single steel wire braid

Cover Black colour, Synthetic rubber resistant to abrasion and weather, oil & ozone. Available in Wrap and Smooth finish*

Application Medium Pressure Hydraulic Lines 110 to 290 bar and requires compact outer dia and high flexibility for use with petroleum, synthetic or water based fluids in Hydraulic systems. Suitable for Agricultural, Construction & Material handling equipment and machineries/systems

| Cover options | Temperature usage option |
|-----------------------|---|
| PH296 : MSHA | PH237 : High temperature MSHA cover -40°C to +135°C |
| PH206 : ABRAZONX MSHA | |

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|-------|------|------|------|------|-----|-------|------|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH296-04 | -04 | 06 | 1/4 | 6.7 | 0.47 | 12.0 | 4205 | 290 | 16820 | 1160 | 1.6 | 40 | 0.186 |
| PH296-05 | -05 | 08 | 5/16 | 8.2 | 0.55 | 14.0 | 3625 | 250 | 14500 | 1000 | 2.2 | 55 | 0.235 |
| PH296-06 | -06 | 10 | 3/8 | 9.8 | 0.63 | 16.0 | 3335 | 230 | 13340 | 920 | 2.6 | 65 | 0.295 |
| PH296-08 | -08 | 12 | 1/2 | 13.1 | 0.75 | 19.0 | 2900 | 200 | 11600 | 800 | 3.1 | 80 | 0.377 |
| PH296-10 | -10 | 16 | 5/8 | 16.2 | 0.87 | 22.0 | 2175 | 150 | 8700 | 600 | 4.1 | 105 | 0.454 |
| PH296-12 | -12 | 19 | 3/4 | 19.3 | 1.02 | 26.0 | 1815 | 125 | 7250 | 500 | 4.7 | 120 | 0.582 |
| PH296-16 | -16 | 25 | 1 | 25.9 | 1.30 | 33.0 | 1595 | 110 | 6380 | 440 | 6.3 | 160 | 0.804 |
| PH296-20 | -20 | 31 | 1.1/4 | 32.0 | 1.73 | 44.0 | 1450 | 100 | 5800 | 400 | 11.8 | 300 | 1.516 |



Temperature Range: Continuous: -40°C to +100°C Intermittent : +120°C
Impulse Cycles: 150,000 cycles

*Smooth cover available only upto size 1"

PH254 - R2 AT / 2SN

Applicable Standard : SAE J517-100 R2AT / EN 853-2SN / ISO 1436



Construction

Inner tube Black colour, Synthetic rubber resistant to oil and water

Reinforcement Double steel wire braids

Cover Black colour, Synthetic rubber resistant to abrasion and weather, oil & ozone. Available in Wrap and Smooth finish*

Application High Pressure Hydraulic Lines 50 to 415 bar. For use with petroleum, synthetic or water based fluids in Hydraulic systems. Suitable for Agricultural, Earthmoving & Material handling equipment and machineries/systems

| Cover options | Temperature usage option |
|--|---|
| PH254 : MSHA | PH554 : Low temperature -55°C to + 100°C |
| PH249 : HARDX MSHA | PH256 : High temperature MSHA cover -40°C to +135°C |
| PH299 : ABRAZONX MSHA | PH292 : Ultra high temperature MSHA cover -40°C to +150°C |
| Note : Sizes 3" to 4" are not covered under SAEJ517-100R1AT/EN 853-2SN | |

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|-----|-------|-------|------|-------|------|-----|-------|------|------|------|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH254-03 | -03 | 05 | 3/16 | 5.1 | 0.52 | 13.1 | 6020 | 415 | 24070 | 1660 | 3.5 | 90 | 0.319 |
| PH254-04 | -04 | 06 | 1/4 | 6.7 | 0.58 | 14.7 | 5800 | 400 | 23200 | 1600 | 3.9 | 100 | 0.386 |
| PH254-05 | -05 | 08 | 5/16 | 8.2 | 0.64 | 16.3 | 5075 | 350 | 20300 | 1400 | 4.5 | 115 | 0.458 |
| PH254-06 | -06 | 10 | 3/8 | 9.8 | 0.74 | 18.7 | 4785 | 330 | 19140 | 1320 | 4.9 | 125 | 0.590 |
| PH254-08 | -08 | 12 | 1/2 | 13.1 | 0.86 | 21.8 | 3990 | 275 | 15950 | 1100 | 7.1 | 180 | 0.679 |
| PH254-10 | -10 | 16 | 5/8 | 16.2 | 0.98 | 25.0 | 3625 | 250 | 14500 | 1000 | 7.9 | 200 | 0.825 |
| PH254-12 | -12 | 19 | 3/4 | 19.3 | 1.14 | 28.9 | 3120 | 215 | 12470 | 860 | 9.4 | 240 | 1.009 |
| PH254-16 | -16 | 25 | 1 | 25.9 | 1.48 | 37.5 | 2395 | 165 | 9570 | 660 | 11.8 | 300 | 1.457 |
| PH254-20 | -20 | 31 | 1.1/4 | 32.4 | 1.87 | 47.6 | 1815 | 125 | 7250 | 500 | 16.5 | 420 | 2.272 |
| PH254-24 | -24 | 38 | 1.1/2 | 38.7 | 2.13 | 54.0 | 1305 | 90 | 5220 | 360 | 19.7 | 500 | 2.620 |
| PH254-32 | -32 | 51 | 2 | 51.3 | 2.63 | 66.7 | 1160 | 80 | 4640 | 320 | 24.8 | 630 | 3.381 |
| PH254-40 | -40 | 63 | 2.1/2 | 63.5 | 3.15 | 80.0 | 1015 | 70 | 4060 | 280 | 29.9 | 760 | 4.443 |
| PH254-48 | -48 | 76 | 3 | 76.2 | 3.68 | 93.4 | 800 | 55 | 3190 | 220 | 35.4 | 900 | 5.459 |
| PH254-64 | -64 | 100 | 4 | 101.6 | 4.67 | 118.5 | 725 | 50 | 2900 | 200 | 46.5 | 1180 | 5.887 |



Temperature Range: Continuous: -40°C to +100°C Intermittent: +120°C

Impulse Cycles: 200,000; Tested upto 400,000 cycles, upto 1" I.D

PH244 - 2ST

Applicable Standard : EN 853 - 2ST



Construction

Inner tube Black colour, Synthetic rubber resistant to oil and water

Reinforcement Double steel wire braids

Cover Black colour, Synthetic rubber resistant to abrasion and weather, oil & ozone. Available in Wrap and Smooth finish*

Application Medium Pressure Hydraulic Lines 55 to 80 bar. For use with petroleum, synthetic or water based fluids in Hydraulic systems. Suitable for Agricultural, Earthmoving & Material handling equipment and machineries/systems

| Cover options |
|--------------------|
| PH244 : MSHA |
| PH209 : HARDX MSHA |

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|------|------|------|-----|------|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH244-32 | -32 | 51 | 2 | 51.0 | 2.76 | 70.0 | 1160 | 80 | 4640 | 320 | 24.8 | 630 | 3.729 |
| PH244-48 | -48 | 76 | 3 | 76.0 | 3.66 | 93.0 | 800 | 55 | 3190 | 220 | 35.4 | 900 | 5.167 |



Temperature Range: Continuous: -40°C to +100°C

Intermittent : +120°C

*Smooth cover available only upto size 1"

PH258 - 2SC

Applicable Standard : EN 857 - 2SC / SAE 100 R16 / ISO 11237-1



Construction

Inner tube Black colour, Synthetic rubber resistant to oil and water

Reinforcement Double steel wire braids

Cover Black colour, Synthetic rubber resistant to abrasion and weather, oil & ozone. Available in Wrap and Smooth finish*

Application High Pressure Hydraulic Lines 125 to 400 bar and requiring compact outer dia and high flexibility for use with petroleum, synthetic or water based fluids in Hydraulic systems. Suitable for Agricultural, Earthmoving & Material handling equipment/machineries and systems

| Cover options | Temperature usage option |
|---|---|
| PH258 : MSHA | PH558 : Low temperature -55°C to +100°C |
| PH230 : HARDX MSHA | PH268 : High temperature MSHA cover -40°C to +135°C |
| PH260 : ABRAZONX MSHA | PH270 : Ultra high temperature MSHA cover -40°C to +150°C |
| Note : 1.1/4" 1SC not covered under EN857 | |

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|-------|------|------|------|------|-----|-------|------|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH258-04 | -04 | 06 | 1/4 | 6.7 | 0.52 | 13.2 | 5800 | 400 | 23200 | 1600 | 2.0 | 50 | 0.323 |
| PH258-05 | -05 | 08 | 5/16 | 8.2 | 0.59 | 14.9 | 5075 | 350 | 20300 | 1400 | 2.2 | 55 | 0.366 |
| PH258-06 | -06 | 10 | 3/8 | 9.8 | 0.67 | 17.1 | 4785 | 330 | 19140 | 1320 | 2.6 | 65 | 0.466 |
| PH258-08 | -08 | 12 | 1/2 | 13.1 | 0.80 | 20.4 | 3990 | 275 | 15950 | 1100 | 3.5 | 90 | 0.624 |
| PH258-10 | -10 | 16 | 5/8 | 16.3 | 0.93 | 23.5 | 3625 | 250 | 14500 | 1000 | 3.9 | 100 | 0.736 |
| PH258-12 | -12 | 19 | 3/4 | 19.3 | 1.10 | 28 | 3120 | 215 | 12470 | 860 | 4.7 | 120 | 0.932 |
| PH258-16 | -16 | 25 | 1 | 25.9 | 1.41 | 35.7 | 2395 | 165 | 9570 | 660 | 5.9 | 150 | 1.324 |
| PH258-20 | -20 | 31 | 1.1/4 | 32.2 | 1.73 | 43.9 | 1815 | 125 | 7250 | 500 | 8.3 | 210 | 1.750 |



Temperature Range: Continuous: -40°C to +100°C Intermittent: +120°C

Impulse Cycles: 200,000; Tested upto 400,000 cycles, upto 1" I.D

PH297 - 2SNX - HP

Applicable Standard : Exceeds SAE100R16/EN 857



Construction

Inner tube Black colour, Synthetic rubber resistant to oil and water

Reinforcement Double steel wire braids

Cover Black colour, Synthetic rubber resistant to abrasion and weather, oil & ozone. Available in Wrap and Smooth finish*

Application High Pressure Hydraulic Lines 175 to 450 bar and requires compact outer dia and high flexibility for use with petroleum, synthetic or water based fluids in Hydraulic systems. Suitable for Agricultural, Earthmoving & Material handling equipment and machineries/systems

| Cover options | Temperature usage option |
|-----------------------|---|
| PH297 : MSHA | PH238 : High temperature MSHA cover -40°C to +135°C |
| PH207 : ABRAZONX MSHA | |

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|-------|------|------|------|------|-----|-------|------|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH297-04 | -04 | 06 | 1/4 | 6.7 | 0.53 | 13.4 | 6525 | 450 | 26100 | 1800 | 1.8 | 45 | 0.299 |
| PH297-05 | -05 | 08 | 5/16 | 8.2 | 0.59 | 15.0 | 6090 | 420 | 24360 | 1680 | 2.4 | 60 | 0.367 |
| PH297-06 | -06 | 10 | 3/8 | 9.8 | 0.69 | 17.4 | 5585 | 385 | 22330 | 1540 | 2.8 | 70 | 0.472 |
| PH297-08 | -08 | 12 | 1/2 | 13.1 | 0.81 | 20.6 | 5005 | 345 | 20010 | 1380 | 3.5 | 90 | 0.618 |
| PH297-10 | -10 | 16 | 5/8 | 16.2 | 0.94 | 24.0 | 4205 | 290 | 16820 | 1160 | 5.1 | 130 | 0.745 |
| PH297-12 | -12 | 19 | 3/4 | 19.3 | 1.09 | 27.7 | 4060 | 280 | 16240 | 1120 | 6.3 | 160 | 0.901 |
| PH297-16 | -16 | 25 | 1 | 25.9 | 1.40 | 35.6 | 2900 | 200 | 11600 | 800 | 8.3 | 210 | 1.261 |
| PH297-20 | -20 | 31 | 1.1/4 | 32.0 | 1.73 | 44.0 | 2540 | 175 | 10150 | 700 | 11.8 | 300 | 1.960 |



Temperature Range: Continuous: -40°C to +100°C Intermittent : +120°C

Impulse Cycles: 200,000 cycles

*Smooth cover available only upto size 1"

PH293 -R17

Applicable Standard : SAE J517 - 100 R17

Construction

Inner tube Black colour, Synthetic rubber resistant to oil and water

Reinforcement Single or Double steel wire braids

Cover Black colour, Synthetic rubber resistant to abrasion and weather, oil & ozone. Available in Wrap and Smooth finish*

Application Constant Pressure Hydraulic Lines 210 bar and requires half bend radius for use with petroleum, synthetic or water based fluids in Hydraulic systems. Suitable for Agricultural, Construction & Material handling equipment/machineries and systems



| Cover options |
|-----------------------|
| PH293 : MSHA |
| PH198 : HARDX MSHA |
| PH294 : ABRAZONX MSHA |

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|------|------|------|-----|-------|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH293-04 | -04 | 06 | 1/4 | 6.6 | 0.50 | 12.8 | 3045 | 210 | 12180 | 840 | 2.0 | 50 | 0.218 |
| PH293-05 | -05 | 08 | 5/16 | 8.1 | 0.56 | 14.3 | 3045 | 210 | 12180 | 840 | 2.2 | 55 | 0.253 |
| PH293-06 | -06 | 10 | 3/8 | 9.7 | 0.64 | 16.3 | 3045 | 210 | 12180 | 840 | 2.6 | 65 | 0.303 |
| PH293-08 | -08 | 12 | 1/2 | 12.9 | 0.80 | 20.3 | 3045 | 210 | 12180 | 840 | 3.5 | 90 | 0.446 |
| PH293-10 | -10 | 16 | 5/8 | 16.1 | 0.99 | 25.1 | 3045 | 210 | 12180 | 840 | 3.9 | 100 | 0.791 |
| PH293-12 | -12 | 19 | 3/4 | 19.2 | 1.16 | 29.4 | 3045 | 210 | 12180 | 840 | 4.7 | 120 | 0.994 |
| PH293-16 | -16 | 25 | 1 | 25.7 | 1.48 | 37.5 | 3045 | 210 | 12180 | 840 | 5.9 | 150 | 1.614 |



Temperature Range: Continuous: -40°C to +100°C Intermittent: +120°C

Impulse Cycles: 200,000 cycles

PH213 - 3000 PSI

Applicable Standard : ISO 18752 - AC (DN06 - 25)

ISO 18752 - BC & CC (DN31 - 51)

Construction

Core Black colour, synthetic rubber resistant to oil and water

Reinforcement Single steel wire braid (DN06 - 12)

Double steel wire braids (DN16 - 25)

Four high tensile steel wire spirals (DN31 - 51)

Cover

Black colour, synthetic rubber resistant to abrasion, weather, oil & ozone. Smooth* and wrap finish applicable only for Wire braided hose

Application

Constant pressure hydraulic lines 210 bar for use with petroleum or water based fluids in hydraulic systems. Suitable for Agricultural, Construction & material handling equipments / systems



| Cover options | Temperature usage option |
|-----------------------|----------------------------------|
| PH213 : MSHA | PH413: -55°C to +100°C (WB) |
| PH223 : HARDX MSHA | PH433: -40°C to +135°C MSHA (WB) |
| PH403 : ABRAZONX MSHA | PH453: -40°C to +153°C MSHA (WB) |

Note : WB: Wire Braid; WS: Wire Spiral

| Item Code | Dash Size | DN | HOSE STRUCTURE | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|----------------|-------|------|------|------|------|-----|-------|-----|------|-----|-------|
| | | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH213-04 | -04 | 06 | 1WB | 1/4 | 6.7 | 0.50 | 12.8 | 3000 | 210 | 12000 | 840 | 2.0 | 50 | 0.216 |
| PH213-05 | -05 | 08 | 1WB | 5/16 | 8.2 | 0.56 | 14.3 | 3000 | 210 | 12000 | 840 | 2.2 | 55 | 0.242 |
| PH213-06 | -06 | 10 | 1WB | 3/8 | 9.8 | 0.64 | 16.3 | 3000 | 210 | 12000 | 840 | 2.6 | 65 | 0.303 |
| PH213-08 | -08 | 12 | 1WB | 1/2 | 13.1 | 0.80 | 20.3 | 3000 | 210 | 12000 | 840 | 3.5 | 90 | 0.446 |
| PH213-10 | -10 | 16 | 2WB | 5/8 | 16.2 | 0.99 | 25.1 | 3000 | 210 | 12000 | 840 | 3.9 | 100 | 0.736 |
| PH213-12 | -12 | 19 | 2WB | 3/4 | 19.3 | 1.16 | 29.4 | 3000 | 210 | 12000 | 840 | 4.7 | 120 | 0.994 |
| PH213-16 | -16 | 25 | 2WB | 1 | 25.9 | 1.48 | 37.5 | 3000 | 210 | 12000 | 840 | 5.9 | 150 | 1.449 |
| PH213-20 | -20 | 31 | 4WS | 1.1/4 | 32.2 | 1.85 | 47.0 | 3000 | 210 | 12000 | 840 | 8.3 | 210 | 2.822 |
| PH213-24 | -24 | 38 | 4WS | 1.1/2 | 38.7 | 2.11 | 53.5 | 3000 | 210 | 12000 | 840 | 22.0 | 560 | 3.566 |
| PH213-32 | -32 | 51 | 4WS | 2 | 51.3 | 2.56 | 65.0 | 3000 | 210 | 12000 | 840 | 27.6 | 700 | 5.132 |



Temperature Range : WB -40°C to +100°C Intermittent : +120°C

WS -40°C to +120°C

*Smooth cover available only upto size 1"

PH214/224 - 4000PSI

Applicable Standard : PH214(WB) ISO 18752 - AC
 PH214(WS) ISO 18752 - BC & CC
 PH224 ISO 18752 - BC & CC



1

Construction

Core Black colour, synthetic rubber resistant to oil and water
Reinforcement Single steel wire braid (DN06), Double steel wire braids (DN08 - 19)
 Four high tensile steel wire spirals (DN10 - 51)

Cover Black colour, synthetic rubber resistant to abrasion, weather, oil & ozone. Smooth* and wrap finish applicable only for wire braided hose

Application Constant pressure hydraulic lines 280 bar for use with petroleum or water based fluids in hydraulic systems. Suitable for Agricultural, Construction & material handling equipments / systems

| Cover options | Temperature usage option |
|--|----------------------------------|
| PH214 : MSHA | PH414: -55°C to +100°C (WB) |
| PH404 : HARDX MSHA (WB) | PH434: -40°C to +135°C MSHA (WB) |
| PH464 : ABRAZONX MSHA (WB) | PH454: -40°C to +153°C MSHA (WB) |
| PH484: HardX MSHA (WS) | |
| PH494: AbrazonX MSHA (WS) | |
| Note : Sizes 3/8" to 3/4" available in both wire braid & wire spiral construction | |
| WB: Wire Braid; WS: Wire Spiral | |

| Item Code | Dash Size | DN | HOSE STRUCTURE | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|----------------|-------|------|------|------|------|-----|-------|------|------|-----|-------|
| | | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH214-04 | -04 | 06 | 1WB | 1/4 | 6.7 | 0.47 | 12.0 | 4000 | 280 | 16000 | 1120 | 2.0 | 50 | 0.186 |
| PH214-05 | -05 | 08 | 2WB | 5/16 | 8.2 | 0.59 | 14.9 | 4000 | 280 | 16000 | 1120 | 2.2 | 55 | 0.366 |
| PH214-06 | -06 | 10 | 2WB | 3/8 | 9.8 | 0.67 | 17.0 | 4000 | 280 | 16000 | 1120 | 2.6 | 65 | 0.466 |
| PH224-06 | -06 | 10 | 4WS | 3/8 | 9.8 | 0.80 | 20.3 | 4000 | 280 | 16000 | 1120 | 2.6 | 65 | 0.660 |
| PH214-08 | -08 | 12 | 2WB | 1/2 | 13.1 | 0.80 | 20.4 | 4000 | 280 | 16000 | 1120 | 3.5 | 90 | 0.624 |
| PH224-08 | -08 | 12 | 4WS | 1/2 | 13.1 | 0.94 | 23.8 | 4000 | 280 | 16000 | 1120 | 3.5 | 90 | 0.852 |
| PH214-10 | -10 | 16 | 2WB | 5/8 | 16.2 | 0.93 | 23.5 | 4000 | 280 | 16000 | 1120 | 3.9 | 100 | 0.736 |
| PH224-10 | -10 | 16 | 4WS | 5/8 | 16.2 | 1.08 | 27.4 | 4000 | 280 | 16000 | 1120 | 3.9 | 100 | 1.059 |
| PH214-12 | -12 | 19 | 2WB | 3/4 | 19.3 | 1.09 | 27.7 | 4000 | 280 | 16000 | 1120 | 4.7 | 120 | 0.901 |
| PH224-12 | -12 | 19 | 4WS | 3/4 | 19.3 | 1.21 | 30.7 | 4000 | 280 | 16000 | 1120 | 4.7 | 120 | 1.134 |
| PH214-16 | -16 | 25 | 4WS | 1 | 25.9 | 1.50 | 38.0 | 4000 | 280 | 16000 | 1120 | 5.9 | 150 | 1.980 |
| PH214-20 | -20 | 31 | 4WS | 1.1/4 | 32.2 | 1.75 | 44.5 | 4000 | 280 | 16000 | 1120 | 9.1 | 230 | 2.671 |
| PH214-24 | -24 | 38 | 4WS | 1.1/2 | 38.7 | 2.11 | 53.5 | 4000 | 280 | 16000 | 1120 | 22.0 | 560 | 3.566 |
| PH214-32 | -32 | 51 | 4WS | 2 | 51.3 | 2.56 | 65.0 | 4000 | 280 | 16000 | 1120 | 24.8 | 630 | 5.132 |

 Temperature Range : **WB** -40°C to +100°C , **WS** -40°C to +120°C **Intermittent** : +120°C

*Smooth cover available only upto size 1"

PH215/225 - 5000 PSI

Applicable Standard : PH215(WB) ISO 18752 - AC
 PH215(WS) ISO 18752 - BC & CC
 PH225 ISO 18752 - BC & CC

Construction

Core Black colour, synthetic rubber resistant to oil and water

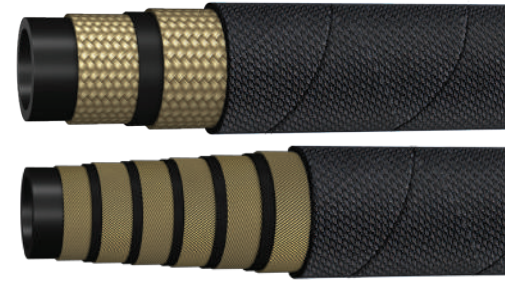
Reinforcement Double steel wire braids (DN06 - 12)

Four high tensile steel wire spirals (DN10 - 31)

Six high tensile steel wire spirals (DN38 - 51)


Cover Black colour, synthetic rubber resistant to abrasion, weather, oil & ozone. Smooth* and wrap finish applicable only for wire braided hose

Application Constant pressure hydraulic lines 350 bar for use with petroleum or water based fluids in hydraulic systems. Suitable for Agricultural, Construction & material handling equipments / systems



| Cover options | Temperature usage option |
|---|----------------------------------|
| PH215 : MSHA | PH415: -55°C to +100°C (WB) |
| PH226 : HARDX MSHA (WB) | PH435: -40°C to +135°C MSHA (WB) |
| PH466 : ABRAZONX MSHA (WB) | PH455: -40°C to +153°C MSHA (WB) |
| PH426: HardX MSHA (WS) | |
| PH486: AbrazonX MSHA (WS) | |
| Note : Sizes 3/8" & 1/2" available in both wire braid & wire spiral construction | |
| WB: Wire Braid; WS: Wire Spiral | |

| Item Code | Dash Size | DN | HOSE STRUCTURE | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|----------------|-------|------|------|------|------|-----|-------|------|------|-----|-------|
| | | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH215-04 | -04 | 06 | 2WB | 1/4 | 6.7 | 0.54 | 13.9 | 5000 | 350 | 20000 | 1400 | 2.0 | 50 | 0.323 |
| PH215-05 | -05 | 08 | 2WB | 5/16 | 8.2 | 0.59 | 15.0 | 5000 | 350 | 20000 | 1400 | 2.2 | 55 | 0.366 |
| PH215-06 | -06 | 10 | 2WB | 3/8 | 9.8 | 0.67 | 17.1 | 5000 | 350 | 20000 | 1400 | 2.6 | 65 | 0.466 |
| PH225-06 | -06 | 10 | 4WS | 3/8 | 9.8 | 0.84 | 21.4 | 5000 | 350 | 20000 | 1400 | 3.5 | 90 | 0.822 |
| PH215-08 | -08 | 12 | 2WB | 1/2 | 13.1 | 0.82 | 20.6 | 5000 | 350 | 20000 | 1400 | 3.5 | 90 | 0.624 |
| PH225-08 | -08 | 12 | 4WS | 1/2 | 13.1 | 0.82 | 24.6 | 5000 | 350 | 20000 | 1400 | 4.5 | 115 | 0.994 |
| PH215-10 | -10 | 16 | 4WS | 5/8 | 16.2 | 1.06 | 27.0 | 5000 | 350 | 20000 | 1400 | 4.7 | 120 | 1.258 |
| PH215-12 | -12 | 19 | 4WS | 3/4 | 19.3 | 0.82 | 32.1 | 5000 | 350 | 20000 | 1400 | 9.4 | 240 | 1.814 |
| PH215-16 | -16 | 25 | 4WS | 1 | 25.9 | 1.52 | 38.7 | 5000 | 350 | 20000 | 1400 | 11.8 | 300 | 2.277 |
| PH215-20 | -20 | 31 | 4WS | 1.1/4 | 32.2 | 1.75 | 44.5 | 5000 | 350 | 20000 | 1400 | 12.6 | 320 | 2.671 |
| PH215-24 | -24 | 38 | 6WS | 1.1/2 | 38.7 | 2.26 | 57.3 | 5000 | 350 | 20000 | 1400 | 19.7 | 500 | 5.747 |
| PH215-32 | -32 | 51 | 6WS | 2 | 51.3 | 0.82 | 71.1 | 5000 | 350 | 20000 | 1400 | 24.8 | 630 | 7.852 |

 Temperature Range : **WB** -40°C to +100°C , **WS** -40°C to +120°C **Intermittent** : +120°C

*Smooth cover available only upto size 1"

PH216 - 6000 PSI

Applicable Standard : ISO 18752 - AC (DN06 - 08)
ISO 18752 - BC & CC (DN10 - 51)

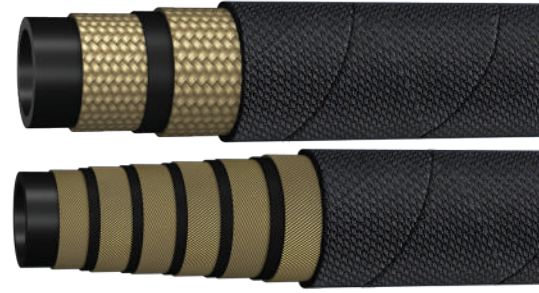
Construction

Core Black colour, synthetic rubber resistant to oil and water

Reinforcement Double steel wire braids (DN06 - 08)
Four high tensile steel wire spirals (DN10 - 25)
Six high tensile steel wire spirals (DN31 - 51)

Cover Black colour, synthetic rubber resistant to abrasion, weather, oil & ozone. Smooth* and wrap finish applicable only for wire braided hose

Application Constant pressure hydraulic lines 420 bar for use with petroleum or water based fluids in hydraulic systems. Suitable for Agricultural, Construction & material handling equipments / systems



| Cover options | Temperature usage option |
|---|----------------------------------|
| PH216 : MSHA | PH416: -55°C to +100°C (WB) |
| PH406 : HARDX MSHA | PH436: -40°C to +135°C MSHA (WB) |
| PH496 : ABRAZONX MSHA | PH456: -40°C to +153°C MSHA (WB) |
| S: SMOOTH COVER | |
| W: WRAP COVER | |
| Note : WB: Wire Braid; WS: Wire Spiral | |

| Item Code | Dash Size | DN | HOSE STRUCTURE | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|----------------|-------|------|------|------|------|-----|-------|------|------|-----|-------|
| | | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH216-04 | -04 | 06 | 2WB | 1/4 | 6.7 | 0.54 | 13.9 | 6000 | 420 | 24000 | 1680 | 2.0 | 50 | 0.323 |
| PH216-05 | -05 | 08 | 2WB | 5/16 | 8.2 | 0.59 | 15.0 | 6000 | 420 | 24000 | 1680 | 2.4 | 60 | 0.367 |
| PH216-06 | -06 | 10 | 4WS | 3/8 | 9.8 | 0.84 | 21.4 | 6000 | 420 | 24000 | 1680 | 3.5 | 90 | 0.822 |
| PH216-08 | -08 | 12 | 4WS | 1/2 | 13.1 | 0.82 | 24.6 | 6000 | 420 | 24000 | 1680 | 4.5 | 115 | 0.994 |
| PH216-10 | -10 | 16 | 4WS | 5/8 | 16.2 | 1.06 | 27.0 | 6000 | 420 | 24000 | 1680 | 4.7 | 120 | 1.258 |
| PH216-12 | -12 | 19 | 4WS | 3/4 | 19.3 | 0.82 | 32.2 | 6000 | 420 | 24000 | 1680 | 10.4 | 265 | 1.814 |
| PH216-16 | -16 | 25 | 4WS | 1 | 25.9 | 1.53 | 38.9 | 6000 | 420 | 24000 | 1680 | 13.0 | 330 | 2.277 |
| PH216-20 | -20 | 31 | 6WS | 1.1/4 | 32.2 | 1.96 | 49.8 | 6000 | 420 | 24000 | 1680 | 17.5 | 445 | 4.269 |
| PH216-24 | -24 | 38 | 6WS | 1.1/2 | 38.7 | 2.26 | 57.3 | 6000 | 420 | 24000 | 1680 | 20.9 | 530 | 5.747 |
| PH216-32 | -32 | 51 | 6WS | 2 | 51.3 | 0.82 | 72.2 | 6000 | 420 | 24000 | 1680 | 25.6 | 650 | 7.852 |

Temperature Range : WB -40°C to +100°C Intermittent : +120°C
WS -40°C to +120°C

PH290 - PILOT HOSE

Construction

Inner tube Black colour, synthetic rubber resistant to oil & water

Reinforcement Single steel wire braid

Cover Black colour, Synthetic rubber resistant to abrasion and weather, oil & ozone. Available in Wrap and Smooth finish*

Application Medium Pressure hydraulic lines 105 bar and requires compact outer dia. For use with petroleum based fluids, water based fluids in Hydraulic systems. Suitable for Agricultural, Earth Moving & Material handling equipment and machineries/systems



| Cover options |
|---------------|
| PH290 : MSHA |

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|------|------|------|-----|------|-----|------|----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH290-04 | -04 | 06 | 1/4 | 6.4 | 0.44 | 11.2 | 1525 | 105 | 6020 | 415 | 1.2 | 30 | 0.169 |
| PH290-05 | -05 | 08 | 5/16 | 8.0 | 0.50 | 12.8 | 1525 | 105 | 6020 | 415 | 1.4 | 35 | 0.193 |
| PH290-06 | -06 | 10 | 3/8 | 9.5 | 0.56 | 14.3 | 1525 | 105 | 6020 | 415 | 2.0 | 50 | 0.272 |
| PH290-08 | -08 | 12 | 1/2 | 12.7 | 0.69 | 17.4 | 1525 | 105 | 6020 | 415 | 2.4 | 60 | 0.294 |

Temperature Range: Continuous: -40°C to +100°C Intermittent : +120°C

*Smooth cover available only upto size 1"

PH142 - 2 WB - 09 Series



Construction

Inner tube Black colour, synthetic rubber resistant to oil & water

Reinforcement Double high tensile wire braids

Cover Black colour, Synthetic rubber resistant to abrasion and weather, oil & ozone

Application High Pressure Hydraulic Lines 210 Bar to 400 Bar. For High pressure hydraulic systems.
Available in Wrap and Smooth finish*

| Cover options |
|---------------|
| PH142 : MSHA |

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|------|------|------|-----|-------|------|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH142-06 | -06 | 10 | 3/8 | 9.5 | 0.75 | 19.1 | 5800 | 400 | 23200 | 1600 | 5.1 | 130 | 0.571 |
| PH142-08 | -08 | 12 | 1/2 | 12.7 | 0.87 | 22.2 | 5005 | 345 | 20010 | 1380 | 7.1 | 180 | 0.689 |
| PH142-10 | -10 | 16 | 5/8 | 16.0 | 1.00 | 25.4 | 4350 | 300 | 17400 | 1200 | 7.9 | 200 | 0.811 |
| PH142-12 | -12 | 19 | 3/4 | 19.0 | 1.16 | 29.4 | 3845 | 265 | 15370 | 1060 | 9.4 | 240 | 1.029 |
| PH142-16 | -16 | 25 | 1 | 25.4 | 1.48 | 37.5 | 3045 | 210 | 12180 | 840 | 11.8 | 300 | 1.503 |



Temperature Range: Continuous: -40°C to +100°C

PH276 - TRIFLEX



Construction

Inner tube Black colour, synthetic rubber resistant to oil

Reinforcement Three high tensile steel braids

Cover Black colour, Synthetic rubber resistant to abrasion and weather, oil & ozone. Available in wrap and smooth finish*

Application High Pressure for forest industry. Compatible with mineral, vegetable oils, glycol, polyglycol based, synthetic ester based oils, oils in water emulsion

| Cover options |
|---------------|
| PH276 : MSHA |

| Item Code | Dash Size | DN | ID | | RI OD | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|------|------|------|-----|-------|------|-------|-----|-------|
| | | | inch | mm | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH276-06 | -06 | 10 | 3/8 | 9.5 | 0.70 | 17.7 | 0.84 | 21.3 | 7250 | 500 | 29000 | 2000 | 7.09 | 180 | 0.832 |
| PH276-08 | -08 | 12 | 1/2 | 12.7 | 0.81 | 20.5 | 0.96 | 24.3 | 6815 | 470 | 27260 | 1880 | 9.06 | 230 | 1.017 |
| PH276-10 | -10 | 16 | 5/8 | 16.0 | 0.96 | 24.4 | 1.10 | 28.0 | 5945 | 410 | 23780 | 1640 | 9.84 | 250 | 1.199 |
| PH276-12 | -12 | 19 | 3/4 | 19.0 | 1.09 | 27.8 | 1.24 | 31.5 | 5440 | 375 | 21750 | 1500 | 11.81 | 300 | 1.457 |
| PH276-16 | -16 | 25 | 1 | 25.4 | 1.37 | 34.7 | 1.52 | 38.7 | 4570 | 315 | 18270 | 1260 | 13.39 | 340 | 1.902 |



Temperature Range: Continuous: -40°C to +100°C Intermittent : +120°C

*Smooth cover available only upto size 1"

PH245 – HYDRAULIC OIL S & D HOSE

Applicable Standard : SAE J517 - 100 R4



Construction

Inner tube Black colour, synthetic rubber resistant to oil

Reinforcement Synthetic Yarn fabric with Steel Wire Helix

Cover Black colour, Synthetic rubber resistant to abrasion and weather, oil & ozone

Application For suction return line of Hydraulic Oil in Industrial and Earthmoving Equipment

| Cover options | Temperature usage option |
|------------------------------------|---|
| PH245 : MSHA | PH185 : High temperature MSHA cover -40°C to +135°C |
| 1.3/4" not covered under SAE 100R4 | |

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|-----|-------|-------|------|-------|-----|-----|------|-----|-------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH245-12 | -12 | 19 | 3/4 | 19.0 | 1.18 | 30.0 | 365 | 25 | 1235 | 85 | 2.56 | 65 | 0.605 |
| PH245-16 | -16 | 25 | 1 | 25.0 | 1.50 | 38.0 | 290 | 20 | 1015 | 70 | 2.95 | 75 | 0.820 |
| PH245-20 | -20 | 31 | 1.1/4 | 32.0 | 1.77 | 45.0 | 220 | 15 | 870 | 60 | 4.13 | 105 | 1.100 |
| PH245-24 | -24 | 38 | 1.1/2 | 38.0 | 2.05 | 52.0 | 220 | 15 | 655 | 45 | 4.92 | 125 | 1.310 |
| PH245-28 | -28 | 44 | 1.3/4 | 45.0 | 2.20 | 56.0 | 145 | 10 | 435 | 30 | 5.91 | 150 | 1.420 |
| PH245-32 | -32 | 51 | 2 | 51.0 | 2.50 | 63.6 | 145 | 10 | 435 | 30 | 5.91 | 150 | 1.590 |
| PH245-40 | -40 | 63 | 2.1/2 | 64.0 | 3.00 | 76.2 | 75 | 5 | 290 | 20 | 7.09 | 180 | 2.400 |
| PH245-48 | -48 | 76 | 3 | 76.0 | 3.54 | 90.0 | 75 | 5 | 290 | 20 | 9.45 | 240 | 2.830 |
| PH245-56 | -56 | 89 | 3.1/2 | 89.0 | 4.05 | 103.0 | 75 | 5 | 290 | 20 | 10.24 | 260 | 3.500 |
| PH245-64 | -64 | 100 | 4 | 102.0 | 4.57 | 116.0 | 75 | 5 | 145 | 10 | 11.81 | 300 | 4.120 |



Temperature Range: Continuous: -40°C to +100°C

Vacuum: -0.9 bar

PH146 - R5

Applicable Standard : SAE J517 - 100 R5



Construction

Inner tube Black colour, Synthetic rubber resistant to oil and water

Reinforcement Single steel wire braid

Cover Black Colour, single braid of textile fiber

Application Medium Pressure Hydraulic Lines 25 to 210 bar for use with fluids in Hydraulic systems can also be used in air and water. Suitable for Agricultural, Earthmoving & Material handling equipment and machineries / systems

| Cover options |
|--|
| PH141 : Rubber |
| 2", 2-1/2", 3" are not covered under SAE 100R5 |

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|---------|------|------|-------|------|-----|-------|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH146-04 | -04 | 05 | 3/16 | 5.1 | 0.52 | 13.2 | 3045 | 210 | 12180 | 840 | 3.0 | 75 | 0.228 |
| PH146-05 | -05 | 06 | 1/4 | 6.8 | 0.58 | 14.8 | 3045 | 210 | 12180 | 840 | 3.3 | 85 | 0.281 |
| PH146-06 | -06 | 08 | 5/16 | 8.3 | 0.68 | 17.15 | 2320 | 160 | 9135 | 630 | 3.9 | 100 | 0.343 |
| PH146-08 | -08 | 10 | 13/32 | 10.7 | 0.77 | 19.45 | 2030 | 140 | 8120 | 560 | 4.5 | 115 | 0.405 |
| PH146-10 | -10 | 12 | 1/2 | 13.2 | 0.92 | 23.4 | 1815 | 125 | 7105 | 490 | 5.5 | 140 | 0.549 |
| PH146-12 | -12 | 16 | 5/8 | 16.4 | 1.08 | 27.4 | 1525 | 105 | 6090 | 420 | 6.5 | 165 | 0.702 |
| PH146-16 | -16 | 22 | 7/8 | 22.7 | 1.24 | 31.4 | 870 | 60 | 3265 | 225 | 7.3 | 185 | 0.702 |
| PH146-20 | -20 | 30 | 1.1/8 | 29.2 | 1.50 | 38.1 | 655 | 45 | 2540 | 175 | 9.1 | 230 | 0.905 |
| PH146-24 | -24 | 35 | 1.3/8 | 35.5 | 1.75 | 44.45 | 510 | 35 | 2030 | 140 | 10.4 | 265 | 1.295 |
| PH146-32 | -32 | 45 | 1.13/16 | 46.6 | 2.22 | 56.4 | 365 | 25 | 1450 | 100 | 13.2 | 335 | 1.572 |
| PH146-32 | -32 | 51 | 2 | 51.0 | 2.48 | 63.0 | 365 | 25 | 1450 | 100 | 24.0 | 610 | 1.819 |
| PH146-40 | -40 | 60 | 2.3/8 | 61.1 | 2.87 | 73.0 | 365 | 25 | 1450 | 100 | 24.0 | 610 | 2.320 |
| PH146-40 | -40 | 63 | 2.1/2 | 63.5 | 2.95 | 75.0 | 510 | 35 | 2030 | 140 | 29.5 | 750 | 2.220 |
| PH146-48 | -48 | 76 | 3 | 76.0 | 3.50 | 89.0 | 510 | 35 | 2030 | 140 | 35.4 | 900 | 2.745 |



Temperature Range: Continuous: -40°C to +100°C for air application temp should be max +80°C and for water +90°C

PH186 - R5C XT

Applicable standard : Exceeds SAE J517 - 100R5

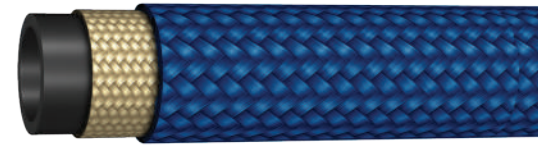
Construction

Inner tube Black colour, Synthetic rubber resistant to oil

Reinforcement Single steel wire braid

Cover Blue polyester braid cover

Application Medium pressure hydraulic lines 25 bar to 210 bar use with Hydraulics handling petroleum based fluids and air, gasoline, fuel and lubricating oils, fire resistant hydraulic fluids & other industrial fluids



| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|---------|------|------|------|------|-----|-------|-----|-------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH186 -04 | -04 | 05 | 3/16 | 4.8 | 0.52 | 13.2 | 3045 | 210 | 12180 | 840 | 2.99 | 76 | 0.209 |
| PH186 -05 | -05 | 06 | 1/4 | 6.4 | 0.58 | 14.7 | 3045 | 210 | 12180 | 840 | 3.39 | 86 | 0.264 |
| PH186 -06 | -06 | 08 | 5/16 | 7.9 | 0.68 | 17.3 | 2320 | 160 | 9280 | 640 | 4.02 | 102 | 0.297 |
| PH186 -08 | -08 | 10 | 13/32 | 10.4 | 0.77 | 19.6 | 2030 | 140 | 8120 | 560 | 4.61 | 117 | 0.352 |
| PH186 -10 | -10 | 12 | 1/2 | 12.7 | 0.92 | 23.4 | 1815 | 125 | 7250 | 500 | 5.51 | 140 | 0.539 |
| PH186 -12 | -12 | 16 | 5/8 | 16.0 | 1.08 | 27.4 | 1525 | 105 | 6090 | 420 | 6.50 | 165 | 0.638 |
| PH186 -16 | -16 | 22 | 7/8 | 22.4 | 1.23 | 31.2 | 870 | 60 | 3480 | 240 | 7.36 | 187 | 0.605 |
| PH186 -20 | -20 | 30 | 1.1/8 | 28.4 | 1.50 | 38.1 | 655 | 45 | 2610 | 180 | 8.98 | 228 | 0.748 |
| PH186 -24 | -24 | 35 | 1.3/8 | 35.1 | 1.75 | 44.5 | 510 | 35 | 2030 | 140 | 10.47 | 266 | 1.012 |
| PH186 -32 | -32 | 45 | 1.13/16 | 46.0 | 2.22 | 56.4 | 365 | 25 | 1450 | 100 | 13.23 | 336 | 1.408 |
| PH186 -40 | -40 | 60 | 2.3/8 | 60.1 | 2.88 | 73.2 | 365 | 25 | 1450 | 100 | 23.98 | 609 | 2.321 |



Temperature Range: Continuous: -40°C to +150°C Air not to exceed: +121°C
Use with biodiesel not to exceed +100°C

PH250 - R3

Applicable Standard : SAE J517 - 100 R3

Construction

Inner tube Black colour, Synthetic rubber resistant to oil and water

Reinforcement Double fiber braids

Cover Black colour, Synthetic rubber resistant to abrasion and weather, oil & ozone. Available in Wrap and Smooth finish*

Application Low pressure and impulse hydraulic lines 20 to 105 bar for use with petroleum, synthetic or water based fluids in Hydraulic systems. Suitable for Agricultural, Construction & Material handling equipment and machineries/systems



| Cover options | |
|-----------------------------------|--|
| PH250 : MSHA | |
| 1-1/2" not covered under SAE100R3 | |

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|-------|------|------|------|------|-----|------|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH250-03 | -03 | 05 | 3/16 | 4.9 | 0.50 | 12.7 | 1525 | 105 | 6090 | 420 | 3.0 | 75 | 0.171 |
| PH250-04 | -04 | 06 | 1/4 | 6.5 | 0.56 | 14.3 | 1305 | 90 | 5075 | 350 | 3.0 | 75 | 0.186 |
| PH250-05 | -05 | 08 | 5/16 | 8.0 | 0.69 | 17.5 | 1235 | 85 | 4930 | 340 | 3.9 | 100 | 0.272 |
| PH250-06 | -06 | 10 | 3/8 | 9.6 | 0.75 | 19.0 | 1160 | 80 | 4570 | 315 | 3.9 | 100 | 0.326 |
| PH250-08 | -08 | 12 | 1/2 | 12.9 | 0.94 | 23.8 | 1015 | 70 | 4060 | 280 | 4.9 | 125 | 0.456 |
| PH250-10 | -10 | 16 | 5/8 | 16.1 | 1.06 | 27.0 | 945 | 65 | 3560 | 245 | 5.5 | 140 | 0.677 |
| PH250-12 | -12 | 19 | 3/4 | 19.2 | 1.25 | 31.8 | 800 | 55 | 3045 | 210 | 5.9 | 150 | 0.734 |
| PH250-16 | -16 | 25 | 1 | 25.6 | 1.50 | 38.1 | 580 | 40 | 2320 | 160 | 8.1 | 205 | 0.921 |
| PH250-20 | -20 | 31 | 1.1/4 | 32.1 | 1.75 | 44.5 | 435 | 30 | 1525 | 105 | 9.8 | 250 | 0.734 |
| PH250-24 | -24 | 38 | 1.1/2 | 38.5 | 2.00 | 50.8 | 290 | 20 | 1015 | 70 | 15.7 | 400 | 1.394 |



Temperature Range: Continuous: -40°C to +100°C Intermittent : +120°C
Impulse cycles: 200,000 cycles

*Smooth cover available only upto size 1"

PH147 - R6

Applicable Standard : SAE J517 - 100 R6



Construction

Inner tube Black colour, Synthetic rubber resistant to oil and water

Reinforcement Textile reinforcement

Cover Black colour, Synthetic rubber resistant to abrasion and weather, oil & ozone. Available in Wrap and Smooth finish*

Application Very low pressure hydraulic lines 15 to 35 bar for use with petroleum, synthetic or water based fluids in Hydraulic systems. Suitable for Agricultural, Stationary equipment and hydraulic systems

| Cover options | Temperature usage option | Other option |
|---------------|---|---|
| PH247 : MSHA | PH164 : High temperature -40°C to +135°C | PH165 : Both inner and outer cover EPDM |
| | PH264 : High temperature MSHA cover -40°C to +135°C | |
| | PH227 : Ultra high temperature MSHA cover -40°C to +150°C | |

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|-------|------|------|------|-----|-----|------|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH147-03 | -03 | 05 | 3/16 | 4.8 | 0.44 | 11.1 | 510 | 35 | 2030 | 140 | 2.0 | 50 | 0.119 |
| PH147-04 | -04 | 06 | 1/4 | 6.4 | 0.50 | 12.7 | 435 | 30 | 1670 | 115 | 2.6 | 65 | 0.141 |
| PH147-05 | -05 | 08 | 5/16 | 8.0 | 0.56 | 14.3 | 435 | 30 | 1670 | 115 | 3.0 | 75 | 0.164 |
| PH147-06 | -06 | 10 | 3/8 | 9.5 | 0.63 | 15.9 | 435 | 30 | 1670 | 115 | 3.0 | 75 | 0.175 |
| PH147-08 | -08 | 12 | 1/2 | 12.7 | 0.78 | 19.8 | 435 | 30 | 1670 | 115 | 3.9 | 100 | 0.285 |
| PH147-10 | -10 | 16 | 5/8 | 15.9 | 0.91 | 23.0 | 365 | 25 | 1450 | 100 | 4.9 | 125 | 0.336 |
| PH147-12 | -12 | 19 | 3/4 | 19.1 | 1.05 | 26.6 | 365 | 25 | 1235 | 85 | 5.9 | 150 | 0.413 |
| PH147-14 | -14 | 22 | 7/8 | 22 | 1.22 | 31.0 | 290 | 20 | 1160 | 80 | 7.9 | 200 | 0.558 |
| PH147-16 | -16 | 25 | 1 | 25.6 | 1.33 | 33.8 | 220 | 15 | 870 | 60 | 7.9 | 200 | 0.605 |
| PH147-20 | -20 | 31 | 1.1/4 | 32.2 | 1.58 | 40.2 | 290 | 20 | 1160 | 80 | 9.8 | 250 | 0.739 |
| PH147-24 | -24 | 38 | 1.1/2 | 38.0 | 2.01 | 51.0 | 220 | 15 | 870 | 60 | 15.7 | 400 | 1.430 |

 **Temperature Range:** Continuous: -40°C to +100°C

PH204-R6 FRAS MSHA

Applicable standard: Exceeds SAE J517 - 100R6



Construction

Inner tube Black colour, Synthetic rubber resistant to oil and water

Reinforcement Textile reinforcement

Cover Black colour, Synthetic rubber resistant to abrasion and weather, oil & ozone. Available in Wrap and Smooth finish*

Application Very low pressure hydraulic lines 15 to 35 bar for use with petroleum, Synthetic or water based fluids in hydraulic systems. Suitable for Agricultural, Stationary equipments and hydraulic systems

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|------|------|-----|-----|------|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH204-03 | -03 | 05 | 3/16 | 4.8 | 0.55 | 13.9 | 510 | 35 | 2030 | 140 | 2.0 | 50 | 0.191 |
| PH204-04 | -04 | 06 | 1/4 | 6.4 | 0.61 | 15.4 | 435 | 30 | 1670 | 115 | 2.6 | 65 | 0.222 |
| PH204-05 | -05 | 08 | 5/16 | 8.0 | 0.67 | 17.0 | 435 | 30 | 1670 | 115 | 3.0 | 75 | 0.247 |
| PH204-06 | -06 | 10 | 3/8 | 9.5 | 0.74 | 18.9 | 435 | 30 | 1670 | 115 | 3.0 | 75 | 0.299 |
| PH204-08 | -08 | 12 | 1/2 | 12.7 | 0.88 | 22.4 | 435 | 30 | 1670 | 115 | 3.9 | 100 | 0.376 |
| PH204-10 | -10 | 16 | 5/8 | 15.9 | 1.01 | 25.6 | 365 | 25 | 1450 | 100 | 4.9 | 125 | 0.449 |
| PH204-12 | -12 | 19 | 3/4 | 19.1 | 1.18 | 30.0 | 365 | 25 | 1235 | 85 | 5.9 | 150 | 0.560 |
| PH204-14 | -14 | 22 | 7/8 | 22.0 | 1.35 | 34.2 | 290 | 20 | 1160 | 80 | 7.9 | 200 | 0.689 |
| PH204-16 | -16 | 25 | 1 | 25.6 | 1.44 | 36.5 | 220 | 15 | 870 | 60 | 7.9 | 200 | 0.709 |

 **Temperature Range:** Continuous: -40°C to +100°C

*Smooth cover available only upto size 1"

PH261 - 1TE

Applicable Standard : EN 854 - 1TE



Construction

Inner tube Black colour, Synthetic rubber resistant to oil and water

Reinforcement Single Textile Braid

Cover Black colour, Synthetic rubber resistant to abrasion and weather, oil & ozone. Available in Wrap and Smooth finish*

Application Very low pressure hydraulic lines 15 to 25 bar for use with petroleum, synthetic or water based fluids in Hydraulic systems. Suitable for Agricultural, Stationary equipment and hydraulic systems

| Cover options | Temperature usage option |
|-----------------------------------|---|
| PH261 : MSHA | PH271 : High temperature MSHA cover -40°C to +135°C |
| 3/4" & 1" not covered under EN854 | |

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W kg/m |
|-----------|-----------|----|------|------|------|------|-----|-----|------|-----|------|-----|-----------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | |
| PH261-04 | -04 | 06 | 1/4 | 6.6 | 0.49 | 12.4 | 365 | 25 | 1450 | 100 | 1.8 | 45 | 0.131 |
| PH261-05 | -05 | 08 | 5/16 | 8.1 | 0.55 | 13.9 | 290 | 20 | 1160 | 80 | 2.6 | 65 | 0.150 |
| PH261-06 | -06 | 10 | 3/8 | 9.0 | 0.61 | 15.5 | 290 | 20 | 1160 | 80 | 3.0 | 75 | 0.181 |
| PH261-08 | -08 | 12 | 1/2 | 13.0 | 0.74 | 18.7 | 290 | 20 | 945 | 65 | 3.5 | 90 | 0.222 |
| PH261-10 | -10 | 16 | 5/8 | 16.1 | 0.90 | 22.9 | 290 | 20 | 945 | 65 | 4.5 | 115 | 0.327 |
| PH261-12 | -12 | 19 | 3/4 | 19.3 | 1.04 | 26.3 | 220 | 15 | 725 | 50 | 5.3 | 135 | 0.381 |
| PH261-16 | -16 | 25 | 1 | 25.8 | 1.34 | 34.0 | 220 | 15 | 725 | 50 | 5.9 | 150 | 0.643 |



Temperature Range: Continuous: -40°C to +100°C

PH262 - 2TE

Applicable Standard : EN 854 -2TE



Construction

Inner tube Black colour, Synthetic rubber resistant to oil and water

Reinforcement Single Textile braid

Cover Black colour, Synthetic rubber resistant to abrasion and weather, oil & ozone. Available in Wrap and Smooth finish*

Application Very low pressure hydraulic lines 40 to 75 bar for use with petroleum, synthetic or water based fluids in Hydraulic systems. Suitable for Agricultural, Stationary equipment and hydraulic systems

| Cover options | Temperature usage option |
|---------------|---|
| PH262 : MSHA | PH272 : High temperature MSHA cover -40°C to +135°C |

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W kg/m |
|-----------|-----------|----|------|------|------|------|------|-----|------|-----|------|-----|-----------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | |
| PH262-04 | -04 | 06 | 1/4 | 6.6 | 0.53 | 13.4 | 1090 | 75 | 4350 | 300 | 1.6 | 40 | 0.172 |
| PH262-05 | -05 | 08 | 5/16 | 8.1 | 0.59 | 14.9 | 1015 | 70 | 3990 | 275 | 2.0 | 50 | 0.199 |
| PH262-06 | -06 | 10 | 3/8 | 9.7 | 0.65 | 16.5 | 945 | 65 | 3700 | 255 | 2.4 | 60 | 0.230 |
| PH262-08 | -08 | 12 | 1/2 | 13.0 | 0.78 | 19.7 | 870 | 60 | 3410 | 235 | 2.8 | 70 | 0.298 |
| PH262-10 | -10 | 16 | 5/8 | 16.1 | 0.94 | 23.9 | 725 | 50 | 2900 | 200 | 3.5 | 90 | 0.409 |
| PH262-12 | -12 | 19 | 3/4 | 19.3 | 1.06 | 27.0 | 655 | 45 | 2610 | 180 | 4.3 | 110 | 0.494 |
| PH262-16 | -16 | 25 | 1 | 25.8 | 1.35 | 34.4 | 580 | 40 | 2320 | 160 | 5.9 | 150 | 0.694 |

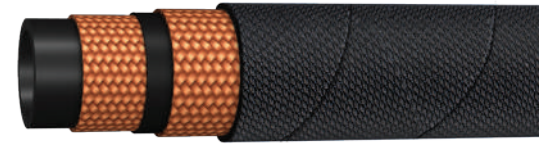


Temperature Range: Continuous: -40°C to +100°C

*Smooth cover available only upto size 1"

PH263 - 3TE

Applicable Standard : EN 854 - 3TE



Construction

Inner tube Black colour, Synthetic rubber resistant to oil and water

Reinforcement Double Textile Braid

Cover Black colour, Synthetic rubber resistant to abrasion and weather, oil & ozone. Available in Wrap and Smooth finish*

Application Medium pressure and low impulse hydraulic lines 40 to 145 bar for use with petroleum, synthetic or water based fluids in Hydraulic systems. Suitable for Agricultural, Construction & Material handling equipment and machineries/systems

| Cover options | Temperature usage option |
|---------------|---|
| PH263 : MSHA | PH273 : High temperature MSHA cover -40°C to +135°C |

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|-------|------|------|------|------|-----|------|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH263-04 | -04 | 06 | 1/4 | 6.6 | 0.57 | 14.4 | 2105 | 145 | 8410 | 580 | 1.8 | 45 | 0.207 |
| PH263-05 | -05 | 08 | 5/16 | 8.1 | 0.67 | 16.9 | 1885 | 130 | 7540 | 520 | 2.2 | 55 | 0.278 |
| PH263-06 | -06 | 10 | 3/8 | 9.7 | 0.73 | 18.5 | 1595 | 110 | 6380 | 440 | 2.8 | 70 | 0.321 |
| PH263-08 | -08 | 12 | 1/2 | 13.0 | 0.85 | 21.7 | 1380 | 95 | 5440 | 375 | 3.3 | 85 | 0.389 |
| PH263-10 | -10 | 16 | 5/8 | 16.1 | 1.02 | 25.9 | 1160 | 80 | 4640 | 320 | 4.1 | 105 | 0.528 |
| PH263-12 | -12 | 19 | 3/4 | 19.3 | 1.14 | 29.0 | 1015 | 70 | 4060 | 280 | 5.1 | 130 | 0.604 |
| PH263-16 | -16 | 25 | 1 | 25.8 | 1.41 | 35.9 | 800 | 55 | 3190 | 220 | 5.9 | 150 | 0.812 |
| PH263-20 | -20 | 31 | 1.1/4 | 32.3 | 1.67 | 42.3 | 655 | 45 | 2610 | 180 | 7.5 | 190 | 0.819 |
| PH263-24 | -24 | 38 | 1.1/2 | 38.6 | 1.95 | 49.6 | 580 | 40 | 2320 | 160 | 9.4 | 240 | 1.178 |



Temperature Range: Continuous: -40°C to +100°C Temp for water based fluids: +90°C

PH175 - JACK HOSE



Construction

Inner tube Black colour, synthetic rubber resistant to oil & water

Reinforcement Double wire Braids

Cover Black colour, Synthetic rubber resistant to abrasion and weather, oil & ozone. Available in Wrap and Smooth finish*

Application Hydraulic jacking system with petroleum and water based fluids. 10,000 PSI Static Pressure Only

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|------|------|-------|-----|-------|------|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH175-04 | -04 | 06 | 1/4 | 6.4 | 0.58 | 14.7 | 10150 | 700 | 20300 | 1400 | 3.9 | 100 | 0.377 |
| PH175-06 | -06 | 10 | 3/8 | 9.5 | 0.74 | 18.8 | 10150 | 700 | 20300 | 1400 | 5.1 | 130 | 0.602 |
| PH175-08 | -08 | 12 | 1/2 | 13.0 | 0.86 | 21.8 | 10150 | 700 | 20300 | 1400 | 7.1 | 180 | 0.695 |



Temperature Range: Continuous: -40°C to +100°C

*Smooth cover available only upto size 1"

PH513 - PW 3K - 1 WB



Construction

Inner tube Black colour, Synthetic rubber resistant to hot water

Reinforcement Single steel wire braid

Cover Black colour, Synthetic rubber resistant to abrasion and weather, oil & ozone. Available in Wrap and Smooth finish*

Application For pressure washer applications with a maximum pressure of 210 Bar. For cold and hot water up to 155 °C

Note: Also Available in Blue and Grey colour Covers on request, Not suitable for steam and oil applications

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|------|------|------|-----|------|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH513-04 | -04 | 06 | 1/4 | 6.7 | 0.47 | 12.0 | 3000 | 210 | 9000 | 630 | 1.4 | 35 | 0.194 |
| PH513-05 | -05 | 08 | 5/16 | 8.2 | 0.55 | 13.6 | 3000 | 210 | 9000 | 630 | 2.6 | 65 | 0.231 |
| PH513-06 | -06 | 10 | 3/8 | 9.8 | 0.63 | 16.0 | 3000 | 210 | 9000 | 630 | 3.0 | 75 | 0.297 |
| PH513-08 | -08 | 12 | 1/2 | 13.1 | 0.79 | 19.6 | 3000 | 210 | 9000 | 630 | 3.9 | 100 | 0.411 |



Temperature Range: Continuous: -10°C to +155°C

PH514 - PW 4K - 1 WB



Construction

Inner tube Black colour, Synthetic rubber resistant to hot water

Reinforcement Single steel wire braid

Cover Black colour, Synthetic rubber resistant to abrasion and weather, oil & ozone. Available in Wrap and Smooth finish*

Application For pressure washer applications with a maximum pressure of 280 Bar. For cold and hot water up to 155 °C

Note: Also Available in Blue and Grey colour Covers on request, Not suitable for steam and oil applications

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|------|------|------|-----|-------|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH514-04 | -04 | 06 | 1/4 | 6.7 | 0.47 | 12.0 | 4000 | 280 | 12000 | 830 | 1.4 | 35 | 0.194 |
| PH514-05 | -05 | 08 | 5/16 | 8.2 | 0.54 | 13.7 | 4000 | 280 | 12000 | 830 | 2.6 | 65 | 0.235 |
| PH514-06 | -06 | 10 | 3/8 | 9.8 | 0.63 | 16.0 | 4000 | 280 | 12000 | 830 | 3.0 | 75 | 0.305 |
| PH514-08 | -08 | 12 | 1/2 | 13.1 | 0.77 | 19.6 | 4000 | 280 | 12000 | 830 | 3.9 | 100 | 0.425 |



Temperature Range: Continuous: -10°C to +155°C

*Smooth cover available only upto size 1"

1

PH516 - PW 6K - 2 WB



Construction

Inner tube Black colour, Synthetic rubber resistant to hot water

Reinforcement Double steel wire braids

Cover Black colour, Synthetic rubber resistant to abrasion and weather, oil & ozone . Available in Wrap and Smooth finish*

Application For pressure washer applications with a maximum pressure of 415 Bar, for cold and hot water up to 155 °C

Note: Also Available in Blue and Grey colour Covers on request, Not suitable for steam and oil applications

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|-----|------|------|------|-----|-------|------|------|----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH516-04 | -04 | 06 | 1/4 | 6.7 | 0.53 | 13.6 | 6000 | 415 | 18000 | 1245 | 3.0 | 75 | 0.360 |
| PH516-05 | -05 | 08 | 5/16 | 8.2 | 0.60 | 15.3 | 6000 | 415 | 18000 | 1245 | 3.3 | 85 | 0.372 |
| PH516-06 | -06 | 10 | 3/8 | 9.8 | 0.68 | 17.4 | 6000 | 415 | 18000 | 1245 | 3.5 | 90 | 0.449 |



Temperature Range: Continuous: -10°C to +155°C

PH521 - SUPER SERVICE HOSE

Applicable Standard : Exceeds EN 857 - 1SC / EN 1829-2



Construction

Inner tube Black colour, Synthetic rubber resistant to hot water

Reinforcement Single steel wire braid

Cover Black colour, Synthetic rubber resistant to abrasion and weather, oil & ozone . Available in Wrap and Smooth finish*
Color option in Grey, Blue available on request

Application Cleaning lines for lobby and semi professional machines. High flexibility for use with minerals, glycols, polyglycols oils, synthetic ester oils, oils in water emulsion

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|------|------|------|-----|-------|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH521-04 | -04 | 06 | 1/4 | 6.7 | 0.47 | 12.0 | 5220 | 360 | 13050 | 900 | 3.0 | 75 | 0.195 |
| PH521-05 | -05 | 08 | 5/16 | 8.2 | 0.54 | 13.6 | 4930 | 340 | 12325 | 850 | 3.3 | 85 | 0.232 |
| PH521-06 | -06 | 10 | 3/8 | 9.8 | 0.63 | 16.0 | 4350 | 300 | 10875 | 750 | 3.5 | 90 | 0.312 |
| PH521-08 | -08 | 12 | 1/2 | 13.1 | 0.78 | 19.6 | 3625 | 250 | 9065 | 625 | 5.1 | 130 | 0.428 |



Temperature Range: Continuous: -40°C to +155°C

*Smooth cover available only upto size 1"

PH522 - SUPER SERVICE HOSE

Applicable Standard : Exceeds EN 857 - 2 SC / EN 1829-2



Construction

Inner tube Black colour, Synthetic rubber resistant to hot water

Reinforcement Two high tensile steel wire braid

Cover Black colour, Synthetic rubber resistant to abrasion and weather, oil & ozone. Available in Wrap and Smooth finish*
Color option Grey, Blue available on request.

Application Cleaning lines for lobby, and semi professional machines. High flexibility for use with minerals, glycols, polyglycols oils, synthetic ester oils, oils in water emulsion

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|------|------|------|-----|-------|------|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | |
| PH522-04 | -04 | 06 | 1/4 | 6.7 | 0.52 | 13.2 | 9425 | 650 | 23200 | 1600 | 3.0 | 75 | 0.326 |
| PH522-05 | -05 | 08 | 5/16 | 8.2 | 0.59 | 14.9 | 7975 | 550 | 20300 | 1400 | 3.3 | 85 | 0.369 |
| PH522-06 | -06 | 10 | 3/8 | 9.8 | 0.67 | 17.0 | 7615 | 525 | 19140 | 1320 | 3.5 | 90 | 0.459 |
| PH522-08 | -08 | 12 | 1/2 | 13.1 | 0.80 | 20.4 | 6380 | 440 | 15950 | 1100 | 5.1 | 130 | 0.626 |



Temperature Range: Continuous: -40°C to +155°C

RUBBER - HYDRAULIC - HIGH PRESSURE SPIRAL HOSE

PH177 - SAE 100 R12

Applicable Standard : SAE J517 - 100 R12 / EN 856 - R12 / ISO 3862



Construction

Inner tube Black colour, Synthetic rubber resistant to oil and water

Reinforcement Four high tensile steel wire spiral

Cover Black colour, Synthetic rubber resistant to abrasion and weather, oil & ozone

Application Heavy duty high temperature medium pressure hydraulic lines 175 to 280 bar and hydrostatic transmission lines for use with petroleum, synthetic or water based fluids in Hydraulic systems. Suitable for Earthmoving, Material handling equipment and machineries/systems

| Cover options |
|-----------------------|
| PH177 : MSHA |
| PH187 : HARDX MSHA |
| PH285 : ABRAZONX MSHA |

| Item Code | Dash Size | DN | ID | | RI OD | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|-------|------|-------|------|------|------|------|-----|-------|------|-------|-----|-------|
| | | | inch | mm | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | |
| PH177-06 | -06 | 10 | 3/8 | 9.7 | 0.68 | 17.2 | 0.80 | 20.3 | 4060 | 280 | 16240 | 1120 | 2.52 | 64 | 0.660 |
| PH177-08 | -08 | 12 | 1/2 | 12.9 | 0.82 | 20.9 | 0.94 | 23.8 | 4060 | 280 | 16240 | 1120 | 3.50 | 89 | 0.852 |
| PH177-10 | -10 | 16 | 5/8 | 16.1 | 0.96 | 24.5 | 1.08 | 27.4 | 4060 | 280 | 16240 | 1120 | 4.01 | 102 | 1.059 |
| PH177-12 | -12 | 19 | 3/4 | 19.2 | 1.10 | 28.0 | 1.21 | 30.7 | 4060 | 280 | 16240 | 1120 | 4.76 | 121 | 1.134 |
| PH177-16 | -16 | 25 | 1 | 25.7 | 1.37 | 34.9 | 1.50 | 38.0 | 4060 | 280 | 16240 | 1120 | 6.02 | 153 | 1.980 |
| PH177-20 | -20 | 31 | 1.1/4 | 32.2 | 1.73 | 43.9 | 1.85 | 47.0 | 3045 | 210 | 12180 | 840 | 8.27 | 210 | 2.822 |
| PH177-24 | -24 | 38 | 1.1/2 | 38.5 | 1.98 | 50.4 | 2.11 | 53.5 | 2540 | 175 | 10150 | 700 | 10.00 | 254 | 3.229 |
| PH177-32 | -32 | 51 | 2 | 51.4 | 2.50 | 63.6 | 2.63 | 66.7 | 2540 | 175 | 10150 | 700 | 12.52 | 318 | 4.622 |



Temperature Range: Continuous: -40°C to +121°C

Impulse cycles: 500,000 cycles

*Smooth cover available only upto size 1"

PH178 - R13

Applicable Standard : SAE J 517 - 100 R13 / EN 856 - R13 / ISO 3862

Construction

Inner tube Black colour, Synthetic rubber resistant to oil and water

Reinforcement Four high tensile steel wire spiral (DN19-25)
Six high tensile steel wire spiral (DN31-51)

Cover Black colour, Synthetic rubber resistant to abrasion and weather, oil & ozone

Application 350 bar super high pressure Hydraulic Lines and hydrostatic transmission lines. Also, suitable for impulse surge lines with more life cycles for use with petroleum, synthetic or water based fluids in Hydraulic systems. Suitable for Earthmoving equipment and machineries/systems



Cover options

PH178 : MSHA

| Item Code | Dash Size | DN | ID | | RI OD | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|-------|------|-------|------|------|------|------|-----|-------|------|-------|-----|-------|
| | | | inch | mm | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH178-12 | -12 | 19 | 3/4 | 19.2 | 1.14 | 29.0 | 1.26 | 32.1 | 5075 | 350 | 20300 | 1400 | 9.45 | 240 | 1.814 |
| PH178-16 | -16 | 25 | 1 | 25.7 | 1.40 | 35.6 | 1.52 | 38.7 | 5075 | 350 | 20300 | 1400 | 11.81 | 300 | 2.277 |
| PH178-20 | -20 | 31 | 1.1/4 | 32.2 | 1.85 | 47.0 | 1.96 | 49.8 | 5075 | 350 | 20300 | 1400 | 16.54 | 420 | 4.269 |
| PH178-24 | -24 | 38 | 1.1/2 | 38.5 | 2.17 | 55.1 | 2.26 | 57.3 | 5075 | 350 | 20300 | 1400 | 19.69 | 500 | 5.747 |
| PH178-32 | -32 | 51 | 2 | 51.4 | 2.67 | 67.7 | 2.80 | 71.1 | 5075 | 350 | 20300 | 1400 | 25.20 | 640 | 7.852 |



Temperature Range: Continuous: -40°C to +121°C

Impulse cycles: 500,000 cycles

PH279 - R15

Applicable Standard : SAE J517 -100 R15 / ISO 3862

Construction

Inner tube Black colour, Synthetic rubber resistant to oil and water

Reinforcement Four high tensile steel wire spiral (DN19-25)
Six high tensile steel wire spiral (DN31-51)

Cover Black colour, Synthetic rubber resistant to abrasion and weather, oil & ozone

Application 420 bar super high pressure Hydraulic Lines and hydrostatic transmission lines. Also, suitable for impulse surge lines with more life cycles for use with petroleum, synthetic or water based fluids in Hydraulic systems. Suitable for Earthmoving equipment and machineries/systems



Cover options

PH279 : MSHA

PH259 : ABRAZONX MSHA

2" Not covered under SAE 100R15

| Item Code | Dash Size | DN | ID | | RI OD | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|-------|------|-------|------|------|------|------|-----|-------|------|-------|-----|-------|
| | | | inch | mm | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH279-12 | -12 | 19 | 3/4 | 19.2 | 1.14 | 29.0 | 1.27 | 32.2 | 6090 | 420 | 24360 | 1680 | 10.43 | 265 | 1.814 |
| PH279-16 | -16 | 25 | 1 | 25.7 | 1.40 | 35.6 | 1.53 | 38.9 | 6090 | 420 | 24360 | 1680 | 12.99 | 330 | 2.277 |
| PH279-20 | -20 | 31 | 1.1/4 | 32.2 | 1.85 | 47.0 | 1.96 | 49.8 | 6090 | 420 | 24360 | 1680 | 17.52 | 445 | 4.269 |
| PH279-24 | -24 | 38 | 1.1/2 | 38.5 | 2.17 | 55.1 | 2.28 | 58.0 | 6090 | 420 | 24360 | 1680 | 20.87 | 530 | 5.747 |
| PH279-32 | -32 | 51 | 2 | 51.2 | 2.68 | 68.0 | 2.80 | 71.2 | 6090 | 420 | 24360 | 1680 | 23.62 | 600 | 8.217 |



Temperature Range: Continuous: -40°C to +121°C

Impulse cycles: 500,000 cycles

PH277 - 4SP

Applicable Standard : EN 856 - 4SP / ISO 3862



Construction

Inner tube Black colour, Synthetic rubber resistant to oil and water

Reinforcement Four high tensile steel wire spirals

Cover Black colour, Synthetic rubber resistant to abrasion and weather, oil & ozone

Application Medium pressure Hydraulic Lines 165 to 450 bar and hydrostatic transmission lines for use with petroleum, synthetic or water based fluids in Hydraulic systems. Suitable for Earthmoving & Material handling equipment and machineries/systems

| Cover options |
|-----------------------|
| PH277 : MSHA |
| PH219 : HARDX MSHA |
| PH205 : ABRAZONX MSHA |

| Item Code | Dash Size | DN | ID | | RI OD | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|-------|------|-------|------|------|------|------|-----|-------|------|-------|-----|-------|
| | | | inch | mm | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH277-04 | -04 | 06 | 1/4 | 6.6 | 0.58 | 14.7 | 0.70 | 17.9 | 6525 | 450 | 26100 | 1800 | 5.91 | 150 | 0.627 |
| PH277-06 | -06 | 10 | 3/8 | 9.7 | 0.69 | 17.5 | 0.84 | 21.4 | 6455 | 445 | 25810 | 1780 | 7.09 | 180 | 0.822 |
| PH277-08 | -08 | 12 | 1/2 | 13.0 | 0.80 | 20.4 | 0.97 | 24.6 | 6020 | 415 | 24070 | 1660 | 9.06 | 230 | 0.994 |
| PH277-10 | -10 | 16 | 5/8 | 16.2 | 0.94 | 23.8 | 1.11 | 28.2 | 5075 | 350 | 20300 | 1400 | 9.84 | 250 | 1.222 |
| PH277-12 | -12 | 19 | 3/4 | 19.3 | 1.12 | 28.4 | 1.27 | 32.2 | 5510 | 380 | 22040 | 1520 | 11.81 | 300 | 1.605 |
| PH277-16 | -16 | 25 | 1 | 25.9 | 1.40 | 35.5 | 1.56 | 39.7 | 4640 | 320 | 18560 | 1280 | 13.39 | 340 | 2.277 |
| PH277-20 | -20 | 31 | 1.1/4 | 32.4 | 1.81 | 46.0 | 2.00 | 50.8 | 3045 | 210 | 12180 | 840 | 18.11 | 460 | 3.368 |
| PH277-24 | -24 | 38 | 1.1/2 | 38.6 | 2.06 | 52.4 | 2.25 | 57.2 | 2685 | 185 | 10730 | 740 | 22.05 | 560 | 3.911 |
| PH277-32 | -32 | 51 | 2 | 51.3 | 2.57 | 65.3 | 2.75 | 69.8 | 2395 | 165 | 9570 | 660 | 25.98 | 660 | 5.185 |



Temperature Range: Continuous: -40°C to +100°C Intermittent: +120°C
Impulse cycles: 400,000 cycles

PH278 - 4SH

Applicable Standard : EN 856 - 4SH / ISO 3862



Construction

Inner tube Black colour, Synthetic rubber resistant to oil and water

Reinforcement Four high tensile steel wire spirals

Cover Black colour, Synthetic rubber resistant to abrasion and weather, oil & ozone

Application Extra high pressure Hydraulic Lines 250 to 420 bar and hydrostatic transmission lines for use with petroleum, synthetic or water based fluids in Hydraulic systems. Suitable for Earthmoving & Material handling equipment and machineries/systems

| Cover options |
|-----------------------|
| PH278 : MSHA |
| PH220 : HARDX MSHA |
| PH289 : ABRAZONX MSHA |

| Item Code | Dash Size | DN | ID | | RI OD | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|-------|------|-------|------|------|------|------|-----|-------|------|-------|-----|-------|
| | | | inch | mm | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH278-12 | -12 | 19 | 3/4 | 19.4 | 1.12 | 28.4 | 1.27 | 32.2 | 6090 | 420 | 24360 | 1680 | 11.02 | 280 | 1.605 |
| PH278-16 | -16 | 25 | 1 | 25.9 | 1.40 | 35.5 | 1.52 | 38.7 | 5510 | 380 | 22040 | 1520 | 13.39 | 340 | 2.277 |
| PH278-20 | -20 | 31 | 1.1/4 | 32.5 | 1.65 | 41.9 | 1.79 | 45.5 | 5075 | 350 | 20300 | 1400 | 18.11 | 460 | 2.671 |
| PH278-24 | -24 | 38 | 1.1/2 | 38.7 | 1.92 | 48.8 | 2.11 | 53.5 | 4350 | 300 | 17400 | 1200 | 22.05 | 560 | 3.566 |
| PH278-32 | -32 | 51 | 2 | 51.3 | 2.49 | 63.2 | 2.68 | 68.1 | 3625 | 250 | 14500 | 1000 | 27.56 | 700 | 5.132 |



Temperature Range: Continuous: -40°C to +100°C Intermittent: +120°C
Impulse cycles: 400,000 cycles

PH183 - FIRE SHIELD HOSE



Construction

Inner tube Black colour, Synthetic rubber resistant to oil and water

Reinforcement Four high tensile steel wire spiral (DN 10 - 32)
Six high tensile steel wire spiral (DN 38 - 51)

Cover Red Colour synthetic rubber resistant to fire, abrasion, oil, weather & ozone

Application Fire Shield hose is used as flame preventer in the Hydraulic Control System with Operating Pressure 5000 PSI. It meets fire test as per API 16D spec for 5 minutes at 700°C (tested for more than 10 minutes at 800° C), operated under emergencies

Note: Fiberglass layer applied till 1.1/4" size

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|--------|-------|------|-------|------|-----|-------|------|-------|-----|------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH183-06 | -6 | 10 | 3/8" | 9.70 | 1.02 | 26.00 | 5000 | 345 | 20000 | 1380 | 5.91 | 150 | 1.14 |
| PH183-08 | -8 | 12 | 1/2" | 13.00 | 1.18 | 30.00 | 5000 | 345 | 20000 | 1380 | 9.06 | 230 | 1.36 |
| PH183-12 | -12 | 19 | 3/4" | 19.20 | 1.46 | 37.00 | 5000 | 345 | 20000 | 1380 | 12.01 | 305 | 1.96 |
| PH183-16 | -16 | 25 | 1" | 25.90 | 1.77 | 45.00 | 5000 | 345 | 20000 | 1380 | 14.96 | 380 | 2.70 |
| PH183-20 | -20 | 32 | 1.1/4" | 32.20 | 2.28 | 58.00 | 5000 | 345 | 20000 | 1380 | 17.99 | 457 | 4.92 |
| PH183-24 | -24 | 38 | 1.1/2" | 38.60 | 2.48 | 63.00 | 5000 | 345 | 20000 | 1380 | 22.05 | 560 | 6.03 |
| PH183-32 | -32 | 51 | 2" | 51.30 | 3.01 | 76.50 | 5000 | 345 | 20000 | 1380 | 26.77 | 680 | 7.83 |



Temperature Range: Continuous: -40°C to +121°C

RUBBER - HYDRAULIC - WATER BLAST HOSE

PH280 - WATER BLAST 30



Construction

Inner tube Black colour, Synthetic rubber resistant to oil and water

Reinforcement Four high tensile steel wire spirals

Cover Black colour, Synthetic rubber resistant to abrasion and weather, oil & ozone

Application Water blasting, Water jetting, cleaning equipment. Delivery of water and water emulsions

Cover options

PH280 : MSHA

| Item Code | Dash Size | DN | ID | | RI OD | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|------|------|-------|-----|-------|------|-------|-----|-------|
| | | | inch | mm | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH280-04 | -04 | 06 | 1/4 | 6.4 | 0.58 | 14.7 | 0.70 | 17.9 | 12325 | 850 | 30815 | 2125 | 5.12 | 130 | 0.627 |
| PH280-06 | -06 | 10 | 3/8 | 9.5 | 0.69 | 17.5 | 0.83 | 21.1 | 12325 | 850 | 30815 | 2125 | 6.10 | 155 | 0.838 |
| PH280-08 | -08 | 12 | 1/2 | 12.7 | 0.84 | 21.3 | 0.97 | 24.6 | 12325 | 850 | 30815 | 2125 | 7.87 | 200 | 1.184 |
| PH280-12 | -12 | 19 | 3/4 | 19.0 | 1.17 | 29.8 | 1.29 | 32.8 | 12325 | 850 | 30815 | 2125 | 9.84 | 250 | 2.024 |
| PH280-16 | -16 | 25 | 1 | 25.4 | 1.38 | 35.1 | 1.51 | 38.3 | 12325 | 850 | 30815 | 2125 | 11.81 | 300 | 2.447 |



Temperature Range: Continuous: -40°C to +90°C

PH281 - WATER BLAST 40



Construction

- Inner tube** Black colour, Synthetic rubber resistant to oil and water
- Reinforcement** Four high tensile steel wire spirals
- Cover** Black colour, Synthetic rubber resistant to abrasion and weather, oil & ozone
- Application** Water blasting, Water jetting, cleaning equipment. Delivery of water and water emulsions

| Cover options |
|---------------|
| PH281 : MSHA |

| Item Code | Dash Size | DN | ID | | RI OD | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|------|------|-------|------|-------|------|-------|-----|-------|
| | | | inch | mm | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH281-06 | -06 | 10 | 3/8 | 9.5 | 0.70 | 17.8 | 0.81 | 20.6 | 15950 | 1100 | 39875 | 2750 | 6.10 | 155 | 0.821 |
| PH281-08 | -08 | 12 | 1/2 | 12.7 | 0.91 | 23.0 | 1.06 | 27.0 | 15950 | 1100 | 39875 | 2750 | 7.87 | 200 | 1.525 |
| PH281-12 | -12 | 19 | 3/4 | 19.0 | 1.13 | 28.7 | 1.26 | 32.0 | 15950 | 1100 | 39875 | 2750 | 12.20 | 310 | 2.068 |



Temperature Range: Continuous: -40°C to +90°C

PH282 - WATER BLAST 45



Construction

- Inner tube** Black colour, Synthetic rubber resistant to oil and water
- Reinforcement** Four high tensile steel wire spirals
- Cover** Black colour, Synthetic rubber resistant to abrasion and weather, oil & ozone
- Application** Water blasting, Water jetting, cleaning equipment. Delivery of water and water emulsions

| Cover options |
|---------------|
| PH282 : MSHA |

| Item Code | Dash Size | DN | ID | | RI OD | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|------|------|-------|------|-------|------|------|-----|-------|
| | | | inch | mm | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH282-06 | -06 | 10 | 3/8 | 9.5 | 0.71 | 18.0 | 0.81 | 20.6 | 18125 | 1250 | 45315 | 3125 | 6.10 | 155 | 0.967 |
| PH282-08 | -08 | 12 | 1/2 | 12.7 | 0.63 | 16.0 | 1.14 | 29.0 | 18125 | 1250 | 45315 | 3125 | 9.06 | 230 | 2.048 |



Temperature Range: Continuous: -40°C to +90°C

PH283 - WATER BLAST 50



Construction

- Inner tube** Black colour, Synthetic rubber resistant to oil and water
- Reinforcement** Six high tensile steel wire spirals
- Cover** Black colour, Synthetic rubber resistant to abrasion and weather, oil & ozone
- Application** Water blasting, Water jetting, cleaning equipment. Delivery of water and water emulsions

1

| Cover options |
|---------------|
| PH283 : MSHA |

| Item Code | Dash Size | DN | ID | | RI OD | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|------|------|-------|------|-------|------|------|-----|------|
| | | | inch | mm | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH283-08 | -08 | 12 | 1/2 | 12.7 | 1.02 | 26.0 | 1.13 | 28.6 | 20010 | 1380 | 50025 | 3450 | 9.06 | 230 | 2.02 |



Temperature Range: Continuous: -40°C to +90°C

RUBBER - HYDRAULIC - MINING HOSE

PH174 - BCS

Applicable Standard : BCS 174 - 1992



Construction

- Inner tube** Black colour, Synthetic rubber resistant to oil and water
- Reinforcement** Double high tensile steel wire braids
- Cover** Black colour, Synthetic rubber resistant to abrasion and weather, oil & ozone. Available in Wrap and Smooth finish*
- Application** High Pressure Hydraulic Lines 115 to 450 bar for use with petroleum, synthetic or water based fluids in Hydraulic systems. Specially made as per British coal 174 specification and to be used in underground mining equipment machines and roof support systems. Also in long wall mining applications

| Cover options |
|---|
| PH174 : MSHA |
| 5/8" Not covered under BCS 174. DGMS approved |

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|-------|------|------|------|------|-----|-------|------|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH174-04 | -04 | 06 | 1/4 | 6.3 | 0.67 | 17.0 | 6525 | 450 | 26100 | 1800 | 3.9 | 100 | 0.504 |
| PH174-06 | -06 | 10 | 3/8 | 9.5 | 0.84 | 21.4 | 5510 | 380 | 22040 | 1520 | 5.1 | 130 | 0.712 |
| PH174-08 | -08 | 12 | 1/2 | 12.7 | 1.04 | 26.4 | 5295 | 365 | 21025 | 1450 | 5.9 | 150 | 0.977 |
| PH174-10 | -10 | 16 | 5/8 | 16.0 | 1.18 | 30.0 | 4060 | 280 | 16240 | 1120 | 7.5 | 190 | 1.300 |
| PH174-12 | -12 | 20 | 3/4 | 19.0 | 1.32 | 33.6 | 4060 | 280 | 16025 | 1105 | 9.1 | 230 | 1.514 |
| PH174-16 | -16 | 25 | 1 | 25.4 | 1.60 | 40.6 | 3120 | 215 | 12470 | 860 | 11.8 | 300 | 1.756 |
| PH174-20 | -20 | 31 | 1.1/4 | 31.7 | 1.87 | 47.5 | 2540 | 175 | 10005 | 690 | 15.0 | 380 | 2.090 |
| PH174-24 | -24 | 38 | 1.1/2 | 38.4 | 2.13 | 54.1 | 2175 | 150 | 8485 | 585 | 17.7 | 450 | 2.763 |
| PH174-32 | -32 | 51 | 2 | 51.1 | 2.63 | 66.8 | 1670 | 115 | 6525 | 450 | 23.6 | 600 | 3.541 |



Temperature Range: Continuous: -40°C to +100°C Intermittent: +120°C

*Smooth cover available only upto size 1"

PH442 FUEL DISPENSING HOSE - HARD WALL

Applicable Standard : EN 1360 Type 3



Construction

- Inner tube** Black colour, Synthetic rubber resistant to petrol and diesel fuel
- Reinforcement** Single steel wire braid
- Cover** Black Colour, synthetic rubber resistant to fuel and weather. Available in Wrap and Smooth finish*
Colour option Blue and Green available on request
- Application** Petrol and diesel fuel dispensing lines of pressure 235 psi

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|------|------|-----|-----|-----|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH442-10 | -10 | 16 | 5/8 | 16.0 | 1.00 | 25.3 | 235 | 16 | 700 | 48 | 3.1 | 80 | 0.590 |
| PH442-12 | -12 | 19 | 3/4 | 19.0 | 1.07 | 27.2 | 235 | 16 | 700 | 48 | 3.9 | 100 | 0.661 |
| PH442-16 | -16 | 25 | 1 | 25.0 | 1.30 | 33.0 | 235 | 16 | 700 | 48 | 5.9 | 150 | 0.657 |



Temperature Range: Continuous: -30°C to +55°C
Electrical resistance max: 1×10^2 ohms

PH443 - FUEL DISPENSING - SOFT WALL

Applicable Standard : EN 1360 Type 1



Construction

- Inner tube** Black colour, Synthetic rubber resistant to petrol and diesel fuel
- Reinforcement** Double Textile braid
- Cover** Black colour, synthetic rubber resistant to fuel and weather. Available in Wrap and Smooth finish*
Colour option Blue and Green available on request.
- Application** Petrol and diesel fuel dispensing lines of pressure 235 psi

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|------|------|-----|-----|-----|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH443-08 | -08 | 12 | 1/2 | 12.5 | 0.91 | 23.0 | 235 | 16 | 700 | 48 | 2.4 | 60 | 0.385 |
| PH443-10 | -10 | 16 | 5/8 | 16.0 | 1.02 | 26.0 | 235 | 16 | 700 | 48 | 3.1 | 80 | 0.396 |
| PH443-12 | -12 | 19 | 3/4 | 19.0 | 1.14 | 29.0 | 235 | 16 | 700 | 48 | 3.9 | 100 | 0.450 |
| PH443-13 | -13 | 21 | 7/8 | 22.0 | 1.22 | 31.0 | 235 | 16 | 700 | 48 | 5.1 | 130 | 0.565 |
| PH443-16 | -16 | 25 | 1 | 25.0 | 1.38 | 35.0 | 235 | 16 | 700 | 48 | 5.9 | 150 | 0.571 |



Temperature Range: Continuous: -30°C to +55°C
Electrical resistance max: 1×10^2 ohms

*Smooth cover available only upto size 1"

PH531 - FUEL HOSE

Applicable Standard : SAE J 30 R2 TYPE 2



Construction

Inner tube Black colour, Synthetic rubber resistant to oil and fuel

Reinforcement Textile reinforcement

Cover Black Colour, Synthetic rubber resistant to oil, ozone. Available in Wrap and Smooth finish*

Application Low Pressure coupled and uncoupled low-permeation Fuel hose for Automotive and allied application, Physical, Extractable and fuel permeation properties as specified in SAE J 30 - R2 - Type 2 standard for use with gasoline, diesel fuel, lubrication oil, or the vapour present in either fuel system or in crank case of internal combustion engines

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|-------|------|------|-----|-----|-----|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH531-03 | -03 | 05 | 3/16 | 4.76 | 0.50 | 12.7 | 145 | 10 | 725 | 50 | 2.0 | 50 | 0.131 |
| PH531-04 | -04 | 06 | 1/4 | 6.35 | 0.56 | 14.3 | 145 | 10 | 725 | 50 | 2.6 | 65 | 0.155 |
| PH531-05 | -05 | 08 | 5/16 | 7.94 | 0.63 | 15.9 | 145 | 10 | 725 | 50 | 3.0 | 75 | 0.180 |
| PH531-06 | -06 | 10 | 3/8 | 9.53 | 0.69 | 17.5 | 145 | 10 | 725 | 50 | 3.0 | 75 | 0.193 |
| PH531-08 | -08 | 12 | 1/2 | 12.7 | 0.81 | 20.6 | 145 | 10 | 725 | 50 | 3.9 | 100 | 0.314 |
| PH531-10 | -10 | 16 | 5/8 | 15.88 | 0.94 | 23.8 | 145 | 10 | 510 | 35 | 4.9 | 125 | 0.370 |
| PH531-12 | -12 | 19 | 3/4 | 19.05 | 1.06 | 27.0 | 145 | 10 | 510 | 35 | 5.9 | 150 | 0.454 |



Temperature Range: Continuous: -40°C to +100°C

PH532 - FUEL HOSE

Applicable Standard : SAE J 30 R2 TYPE 3



Construction

Inner tube Black colour, Synthetic rubber resistant to oil and fuel

Reinforcement Single Braid Textile reinforcement

Cover Black Colour, Synthetic rubber resistant to oil, ozone. Available in Wrap and Smooth finish*

Application Low Pressure coupled and uncoupled low-permeation Fuel hose for Automotive and allied application, Physical, Extractable and fuel permeation properties as specified in SAE J 30 - R2 Type 3 Standard for use with gasoline, diesel fuel, lubrication oil, or the vapour present in either fuel system or in crank case of internal combustion engines

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|------|------|-----|-----|------|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH532-03 | -03 | 05 | 3/16 | 4.8 | 0.41 | 10.3 | 510 | 35 | 2030 | 140 | 2.0 | 50 | 0.094 |
| PH532-04 | -04 | 06 | 1/4 | 6.4 | 0.50 | 12.7 | 435 | 30 | 1670 | 115 | 2.6 | 65 | 0.130 |
| PH532-05 | -05 | 08 | 5/16 | 8.0 | 0.56 | 14.3 | 435 | 30 | 1670 | 115 | 3.0 | 75 | 0.155 |
| PH532-06 | -06 | 10 | 3/8 | 9.5 | 0.62 | 15.8 | 435 | 30 | 1670 | 115 | 3.0 | 75 | 0.183 |
| PH532-08 | -08 | 12 | 1/2 | 12.7 | 0.78 | 19.8 | 435 | 30 | 1670 | 115 | 3.9 | 100 | 0.264 |
| PH532-10 | -10 | 16 | 5/8 | 16.0 | 0.94 | 23.8 | 365 | 25 | 1235 | 85 | 4.9 | 125 | 0.302 |
| PH532-12 | -12 | 19 | 3/4 | 19.0 | 1.12 | 28.5 | 365 | 25 | 1235 | 85 | 5.9 | 150 | 0.372 |



Temperature Range: Continuous: -40°C to +100°C

*Smooth cover available only upto size 1"

PH534 - LPG HOSE AS PER EN 1762 : TYPE -D

Applicable Standard : EN 1762 - Type D



Construction

Inner tube Low Permeation Synthetic rubber tube resistant to n-pentane

Reinforcement Single wire braid

Cover Perforated black colour, Synthetic rubber resistant to abrasion and weather. Available in Wrap and Smooth finish*

Application Designed for transfer of LPG in liquid or gaseous phase and natural gas

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|-------|------|------|------|-----|-----|------|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH534-06 | -06 | 10 | 3/8 | 9.7 | 0.74 | 18.8 | 365 | 25 | 1450 | 100 | 3.5 | 90 | 0.351 |
| PH534-08 | -08 | 12 | 1/2 | 12.7 | 0.89 | 22.7 | 365 | 25 | 1450 | 100 | 3.9 | 100 | 0.474 |
| PH534-10 | -10 | 16 | 5/8 | 15.9 | 1.02 | 25.9 | 365 | 25 | 1450 | 100 | 4.9 | 125 | 0.566 |
| PH534-12 | -12 | 19 | 3/4 | 19.0 | 1.22 | 31.0 | 365 | 25 | 1450 | 100 | 6.3 | 160 | 0.793 |
| PH534-16 | -16 | 25 | 1 | 25.0 | 1.50 | 38.0 | 365 | 25 | 1450 | 100 | 7.9 | 200 | 1.103 |
| PH534-20 | -20 | 31 | 1.1/4 | 32.0 | 1.77 | 45.0 | 365 | 25 | 1450 | 100 | 9.8 | 250 | 1.414 |
| PH534-24 | -24 | 38 | 1.1/2 | 38.0 | 2.05 | 52.0 | 365 | 25 | 1450 | 100 | 12.6 | 320 | 1.963 |
| PH534-32 | -32 | 51 | 2 | 51.0 | 2.60 | 66.0 | 365 | 25 | 1450 | 100 | 15.7 | 400 | 2.643 |
| PH534-48 | -48 | 76 | 3 | 76.0 | 3.70 | 94.0 | 365 | 25 | 1450 | 100 | 25.6 | 650 | 4.275 |



Temperature Range: Continuous: -30°C to +70°C

PH535 - LPG Hose As Per IS 9573 :2012 Type -1

Applicable Standard : IS 9573 :2012 TYPE -1



Construction

Inner tube Black colour, Synthetic rubber resistant to n-pentane

Reinforcement Single Synthetic Yarn with electrically bonded wire optional

Cover Perforated black colour, Synthetic rubber resistant to abrasion and weather. Available in Wrap and Smooth finish*

Application Designed for use in motor vehicles with Liquefied Petroleum Gas (LPG) installations, designed for industrial application

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|------|------|-----|-----|------|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH535-04 | -04 | 06 | 1/4 | 6.5 | 0.50 | 12.7 | 365 | 25 | 1450 | 100 | 2.8 | 70 | 0.165 |
| PH535-05 | -05 | 08 | 5/16 | 8.3 | 0.59 | 14.9 | 365 | 25 | 1450 | 100 | 3.7 | 95 | 0.185 |
| PH535-06 | -06 | 10 | 3/8 | 10.7 | 0.68 | 17.3 | 365 | 25 | 1450 | 100 | 4.7 | 120 | 0.224 |
| PH535-08 | -08 | 12 | 1/2 | 13.2 | 0.89 | 22.7 | 365 | 25 | 1450 | 100 | 5.9 | 150 | 0.405 |
| PH535-10 | -10 | 16 | 5/8 | 16.4 | 1.02 | 25.9 | 365 | 25 | 1450 | 100 | 7.3 | 185 | 0.481 |
| PH535-12 | -12 | 19 | 3/4 | 19.2 | 1.13 | 28.7 | 365 | 25 | 1450 | 100 | 8.9 | 225 | 0.545 |
| PH535-16 | -16 | 25 | 1 | 25.5 | 1.50 | 38.0 | 365 | 25 | 1450 | 100 | 11.8 | 300 | 0.925 |



Temperature Range: Continuous: -40°C to +70°C

*Smooth cover available only upto size 1"

PH536 - FUEL/CNG HOSE FOR AUTOMOTIVE APPLICATION

Applicable Standard : SAE J30 - R6 / IS 15722



Construction

Inner tube Black colour, Synthetic rubber resistant to oil and fuel

Reinforcement Textile reinforcement

Cover Black colour, Synthetic rubber resistant to abrasion and weather. Available in Wrap and Smooth finish*

Application Designed for use in motor vehicles with CNG installations

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W kg/m |
|-----------|-----------|----|------|------|------|------|-----|-----|-----|-----|------|-----|-----------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | |
| PH536-03 | -03 | 05 | 3/16 | 4.7 | 0.41 | 10.3 | 150 | 10 | 725 | 50 | 2.0 | 50 | 0.094 |
| PH536-04 | -04 | 06 | 1/4 | 6.4 | 0.50 | 12.7 | 150 | 10 | 725 | 50 | 2.6 | 65 | 0.130 |
| PH536-05 | -05 | 08 | 5/16 | 8.0 | 0.56 | 14.3 | 150 | 10 | 725 | 50 | 3.0 | 75 | 0.155 |
| PH536-06 | -06 | 10 | 3/8 | 9.5 | 0.63 | 15.9 | 150 | 10 | 725 | 50 | 3.0 | 75 | 0.183 |
| PH536-08 | -08 | 12 | 1/2 | 12.7 | 0.78 | 19.8 | 150 | 10 | 725 | 50 | 3.9 | 100 | 0.264 |
| PH536-10 | -10 | 16 | 5/8 | 15.9 | 0.94 | 23.8 | 150 | 10 | 725 | 50 | 4.9 | 125 | 0.302 |
| PH536-12 | -12 | 19 | 3/4 | 19.0 | 1.13 | 28.6 | 150 | 10 | 725 | 50 | 5.9 | 150 | 0.372 |
| PH536-16 | -16 | 25 | 1 | 25.4 | 1.37 | 34.9 | 150 | 10 | 725 | 50 | 7.9 | 200 | 0.545 |



Temperature Range: Continuous: -40°C to +100°C

PH542 - FUEL & OIL HOSE

Applicable standard: SAE J30R7



Construction

Inner tube Black colour, Nitrile rubber resistant to fuel & oil.

Reinforcement Textile reinforcement

Cover Black colour, NBR/PVC rubber resistant to weather, abrasion & ozone. Available in Wrap and Smooth finish*

Application Low pressure fuel lines 10 bar for use with gasoline, oil, diesel fuel, lubrication oil, or the vapors present in either the fuel system or in the crankcase of internal combustion engines in mobile or stationary applications.

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W kg/m |
|-----------|-----------|----|------|------|------|------|-----|-----|-----|-----|------|-----|-----------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | |
| PH 542-03 | -03 | 05 | 3/16 | 4.7 | 0.41 | 10.3 | 150 | 10 | 580 | 40 | 50 | 2.0 | 0.101 |
| PH 542-04 | -04 | 06 | 1/4 | 6.4 | 0.50 | 12.7 | 150 | 10 | 580 | 40 | 65 | 2.6 | 0.125 |
| PH 542-05 | -05 | 08 | 5/16 | 8.0 | 0.56 | 14.3 | 150 | 10 | 580 | 40 | 75 | 3.0 | 0.154 |
| PH 542-06 | -06 | 10 | 3/8 | 9.5 | 0.63 | 15.9 | 150 | 10 | 580 | 40 | 75 | 3.0 | 0.176 |
| PH 542-08 | -08 | 12 | 1/2 | 12.7 | 0.78 | 19.8 | 150 | 10 | 580 | 40 | 100 | 3.9 | 0.253 |
| PH 542-10 | -10 | 16 | 5/8 | 15.9 | 0.94 | 23.8 | 150 | 10 | 580 | 40 | 125 | 4.9 | 0.326 |
| PH 542-12 | -12 | 19 | 3/4 | 19.0 | 1.13 | 28.6 | 150 | 10 | 580 | 40 | 150 | 5.9 | 0.481 |
| PH 542-16 | -16 | 25 | 1 | 25.4 | 1.37 | 34.9 | 150 | 10 | 580 | 40 | 200 | 7.9 | 0.603 |



Temperature Range: Continuous: -40°C to +125°C

*Smooth cover available only upto size 1"

PH140 - LOW SMOKE HI-TEMP BRAKE HOSE



Construction

Inner tube Black colour, AEM rubber with low smoke property

Reinforcement Double textile braids

Cover Black colour, AEM rubber with low smoke property

Application Very low pressure hydraulic lines 15 bar for use with Hydrocarbon lubricants, hydraulic fluids and wide range temperature resistance

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|-------|------|------|------|-----|-----|-----|-----|-------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH140-04 | -04 | 06 | 1/4 | 6.4 | 0.61 | 15.6 | 220 | 15 | 870 | 60 | 2.36 | 60 | 0.255 |
| PH140-05 | -05 | 08 | 5/16 | 8.0 | 0.69 | 17.4 | 220 | 15 | 870 | 60 | 3.15 | 80 | 0.314 |
| PH140-06 | -06 | 10 | 3/8 | 9.5 | 0.74 | 18.8 | 220 | 15 | 870 | 60 | 3.94 | 100 | 0.340 |
| PH140-08 | -08 | 12 | 1/2 | 12.7 | 0.87 | 22.0 | 220 | 15 | 870 | 60 | 5.12 | 130 | 0.420 |
| PH140-12 | -12 | 19 | 3/4 | 19.1 | 1.13 | 28.8 | 220 | 15 | 870 | 60 | 7.48 | 190 | 0.590 |
| PH140-16 | -16 | 25 | 1 | 25.6 | 1.50 | 38.1 | 220 | 15 | 870 | 60 | 10.04 | 255 | 1.020 |
| PH140-20 | -20 | 31 | 1.1/4 | 31.7 | 1.87 | 47.5 | 220 | 15 | 870 | 60 | 13.78 | 350 | 1.500 |



Temperature Range: Continuous: -38°C to +150°C

PH503 / 134 A NON- BARRIER TYPE AIR CONDITIONING HOSE

Applicable Standard : SAE J 2064 Type B



Construction

Inner tube Black colour, Synthetic Rubber resistant to R134a with PEG oil

Reinforcement Single Steel Wire Braid

Cover Black Colour, Synthetic rubber resistant to weather

Application Car, Truck and Agricultural Machine Air Conditioning System Recommended Fluids: Freon R 134a and PEG lubricant oils

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|-------|------|------|------|-----|-----|------|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH503-16 | 16 | 22 | 7/8 | 22.0 | 1.26 | 32.0 | 500 | 35 | 2175 | 150 | 9.8 | 250 | 0.972 |
| PH503-20 | 20 | 30 | 1.1/8 | 28.6 | 1.52 | 38.7 | 500 | 35 | 2175 | 150 | 11.8 | 300 | 1.069 |



Temperature Range: Continuous: -30°C to +125°C Intermittent: Max. +135°C

PH540 - AIR BRAKE HOSE

Applicable Standard : SAE J 1402 Type A

Construction

- Inner tube** Black colour, Synthetic Rubber Tube
- Reinforcement** Textile reinforcement
- Cover** Black Colour, Synthetic rubber resistant to oil, ozone
- Application** Automotive Air Brake System; Tractor - Trailer Air Brake connections



1

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|------|-------|-----|-----|-----|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH540-04 | -04 | 06 | 1/4 | 6.4 | 0.63 | 15.9 | 150 | 10 | 870 | 60 | 2.6 | 65 | 0.260 |
| PH540-05 | -05 | 08 | 5/16 | 7.9 | 0.69 | 17.5 | 150 | 10 | 870 | 60 | 3.0 | 75 | 0.330 |
| PH540-06 | -06 | 10 | 3/8 | 9.5 | 0.75 | 19.05 | 150 | 10 | 870 | 60 | 3.5 | 90 | 0.377 |
| PH540-07 | -07 | 11 | 7/16 | 11.1 | 0.81 | 20.6 | 150 | 10 | 870 | 60 | 3.9 | 100 | 0.379 |
| PH540-08 | -08 | 12 | 1/2 | 12.7 | 0.87 | 22.2 | 150 | 10 | 870 | 60 | 3.9 | 100 | 0.486 |
| PH540-09 | -09 | 14 | 9/16 | 14.0 | 1.0 | 25.4 | 150 | 10 | 870 | 60 | 4.3 | 110 | 0.506 |
| PH540-10 | -10 | 16 | 5/8 | 15.9 | 1.06 | 27.0 | 150 | 10 | 870 | 60 | 4.5 | 115 | 0.530 |



Temperature Range: Continuous: -40°C to +100°C

PH550 - RAIL BRAKE HOSE

Applicable standard: AAR M618, M619

Construction

- Inner tube** Black colour, Synthetic rubber resistant to oil & air.
- Reinforcement** DN 12, 16 Double textile braids, separated by single steel wire braid.
DN 22, 30, 35 Double steel wire braids & single textile braid over wire braid.
- Cover** Black colour, Synthetic rubber resistant to abrasion, weather, oil & ozone.
- Application** Hose used for air brake systems in trains services.

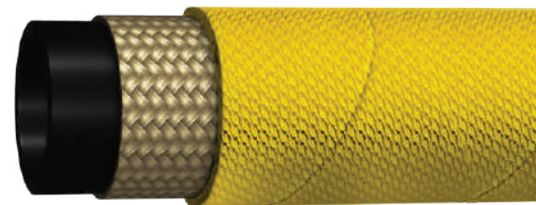


| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|-------|------|------|------|-----|-----|------|-----|------|------|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH 550-10 | -10 | 12 | 1/2 | 12.9 | 0.94 | 23.8 | 300 | 20 | 1235 | 85 | 140 | 5.5 | 0.615 |
| PH 550-12 | -12 | 16 | 5/8 | 16.0 | 1.12 | 28.5 | 300 | 20 | 1235 | 85 | 165 | 6.5 | 0.841 |
| PH 550-16 | -16 | 22 | 7/8 | 22.2 | 1.37 | 34.9 | 300 | 20 | 1235 | 85 | 185 | 7.3 | 1.167 |
| PH 550-20 | -20 | 30 | 1.1/8 | 28.9 | 1.63 | 41.3 | 300 | 20 | 1235 | 85 | 240 | 9.4 | 1.180 |
| PH 550-24 | -24 | 35 | 1.3/8 | 34.9 | 1.87 | 47.6 | 300 | 20 | 1235 | 85 | 265 | 10.4 | 1.379 |



Temperature Range: Continuous: -45°C to +100°C

PH440 - COMPRESSED AIR WIRE BRAIDED HOSE



Construction

- Inner tube** Black colour, Synthetic rubber resistant to air
- Reinforcement** Single steel wire braid
- Cover** Yellow colour, Synthetic rubber resistant to water. Also available in Black cover on request
- Application** Compressed air service in severe working conditions in mines, quarries and industrial applications

| Cover options |
|---|
| PH441 : Ultra high temperature MSHA -40°C to +150°C |
| Note: 1/2" to 2" - one wire braid, 2 1/2" to 4" - two wire braided. |

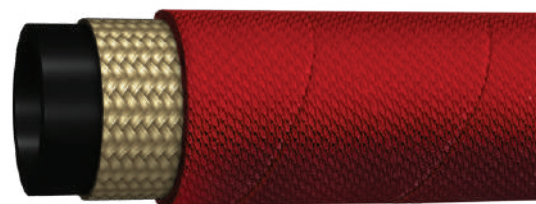
| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|-----|-------|-------|------|-------|-----|-----|------|-----|------|------|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH440-08 | -08 | 12 | 1/2 | 13.1 | 0.79 | 20.0 | 580 | 40 | 1740 | 120 | 7.9 | 200 | 0.365 |
| PH440-12 | -12 | 19 | 3/4 | 19.3 | 1.06 | 27.0 | 580 | 40 | 1740 | 120 | 9.4 | 240 | 0.520 |
| PH440-16 | -16 | 25 | 1 | 25.9 | 1.40 | 35.5 | 580 | 40 | 1740 | 120 | 11.8 | 300 | 0.821 |
| PH440-20 | -20 | 32 | 1.1/4 | 32.4 | 1.65 | 42.0 | 580 | 40 | 1740 | 120 | 16.5 | 420 | 1.114 |
| PH440-24 | -24 | 38 | 1.1/2 | 38.7 | 2.04 | 51.7 | 580 | 40 | 1740 | 120 | 19.7 | 500 | 1.529 |
| PH440-32 | -32 | 51 | 2 | 51.3 | 2.48 | 63.0 | 580 | 40 | 1740 | 120 | 24.8 | 630 | 2.058 |
| PH440-40 | -40 | 63 | 2.1/2 | 63.5 | 3.15 | 80.0 | 580 | 40 | 1740 | 120 | 30.0 | 762 | 4.196 |
| PH440-48 | -48 | 76 | 3 | 76.2 | 3.74 | 95.0 | 580 | 40 | 1740 | 120 | 36.0 | 915 | 5.394 |
| PH440-64 | -64 | 100 | 4 | 101.6 | 4.67 | 118.5 | 580 | 40 | 1740 | 120 | 48.0 | 1220 | 6.110 |



Temperature Range: Continuous: -40°C to +90°C

PH471 - STEAM 1 W/B

Applicable Standard : IS 10655 Type 2/ISO 6134 Type 1A/BS 5342 Type 1A



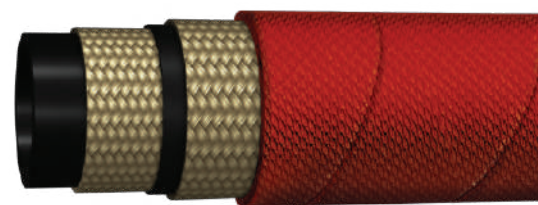
Construction

- Inner tube** Black colour, EPDM rubber resistant to high temperature steam
- Reinforcement** Single steel wire Braid
- Cover** Red Colour, EPDM rubber resistant to abrasion, heat and weather
- Application** High temperature steam Lines at constant pressure of 145 psi

Note: Black Colour Cover also available

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|-------|------|------|------|-----|-----|------|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH471-06 | -06 | 10 | 3/8 | 10.0 | 0.69 | 17.5 | 145 | 10 | 1450 | 100 | 5.1 | 130 | 0.399 |
| PH471-08 | -08 | 12 | 1/2 | 12.5 | 0.87 | 22.0 | 145 | 10 | 1450 | 100 | 5.9 | 150 | 0.496 |
| PH471-12 | -12 | 19 | 3/4 | 19.0 | 1.14 | 29.0 | 145 | 10 | 1450 | 100 | 9.1 | 230 | 0.727 |
| PH471-16 | -16 | 25 | 1 | 25.4 | 1.37 | 34.8 | 145 | 10 | 1450 | 100 | 11.8 | 300 | 0.800 |
| PH471-20 | -20 | 32 | 1.1/4 | 31.5 | 1.65 | 42.0 | 145 | 10 | 1450 | 100 | 14.8 | 375 | 1.281 |

Temperature Range: Continuous: Up to +185°C Steam



PH472 - STEAM 2 W/B

Applicable Standard : Exceeds IS 10655 TYPE 3/ ISO 6134 TYPE 2A/ BS 5342 TYPE 2A

Construction

- Inner tube** Black colour, EPDM rubber resistant to high temperature steam
- Reinforcement** Double steel wire Braids
- Cover** Red Colour, EPDM rubber resistant to heat and weather. Black colour option available on request
- Application** High temperature steam Lines at constant pressure of 290 psi

Cover options

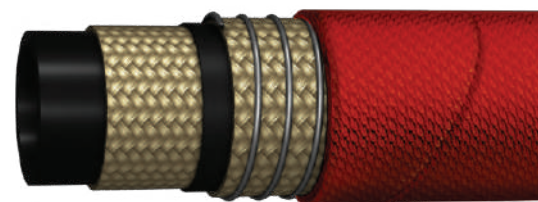
PH482 : Oil resistance outer cover conforms ISO 6134 Type 2B/BS 5342 Type 2B

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|-------|------|------|------|-----|-----|------|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH472-06 | -06 | 10 | 3/8 | 10.0 | 0.77 | 19.5 | 260 | 18 | 2610 | 180 | 5.1 | 130 | 0.421 |
| PH472-08 | -08 | 12 | 1/2 | 12.5 | 0.91 | 23.0 | 260 | 18 | 2610 | 180 | 5.9 | 150 | 0.589 |
| PH472-12 | -12 | 19 | 3/4 | 19.0 | 1.18 | 30.0 | 260 | 18 | 2610 | 180 | 9.1 | 230 | 0.846 |
| PH472-16 | -16 | 25 | 1 | 25.4 | 1.45 | 36.8 | 260 | 18 | 2610 | 180 | 11.8 | 300 | 1.095 |
| PH472-20 | -20 | 32 | 1.1/4 | 31.5 | 1.71 | 43.5 | 260 | 18 | 2610 | 180 | 14.8 | 375 | 1.505 |
| PH472-24 | -24 | 38 | 1.1/2 | 38.0 | 1.95 | 49.5 | 260 | 18 | 2610 | 180 | 17.9 | 455 | 1.780 |
| PH472-32 | -32 | 51 | 2 | 51.0 | 2.52 | 64.0 | 260 | 18 | 2610 | 180 | 23.6 | 600 | 2.261 |
| PH472-40 | -40 | 63 | 2.1/2 | 63.0 | 3.27 | 83.0 | 260 | 18 | 2610 | 180 | 26.6 | 675 | 4.214 |
| PH472-48 | -48 | 76 | 3 | 76.0 | 3.86 | 98.0 | 260 | 18 | 2610 | 180 | 28.5 | 725 | 4.962 |



Temperature Range: Continuous: Up to +230°C Steam

PH475 - STEAM HOSE WITH HELICAL WIRE



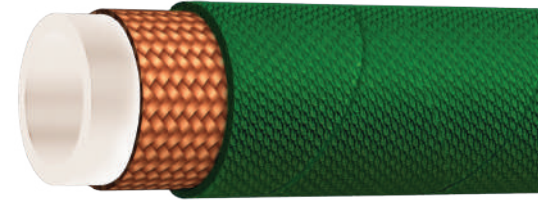
Construction

- Inner tube** Black colour, EPDM rubber resistant to high temperature steam
- Reinforcement** Double steel wire braids with helical wire
- Cover** Red Colour, EPDM rubber resistant to heat and weather
- Application** Hardwall hose with steel cord reinforcement for steam at a maximum working pressure of 18 bar, used in chemical industries and industrial application in general , where a particular bending radius is necessary

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|-------|------|------|------|-----|-----|------|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH475-32 | -32 | 51 | 2 | 51.0 | 2.72 | 69.0 | 260 | 18 | 2610 | 180 | 27.6 | 700 | 2.971 |
| PH475-40 | -40 | 63 | 2.1/2 | 63.0 | 3.39 | 86.0 | 260 | 18 | 2610 | 180 | 33.5 | 850 | 4.574 |
| PH475-48 | -48 | 76 | 3 | 76.0 | 3.86 | 98.0 | 260 | 18 | 2610 | 180 | 38.6 | 980 | 5.335 |

Temperature Range: Continuous: -40°C to +210°C Steam

PH555 - NON CONDUCTIVE CARBON FREE HOSE



Construction

Inner tube Cream colour, Synthetic rubber

Reinforcement High Tensile Fiber Yarn Braid

Cover Red or Green Colour, Synthetic Rubber Cover resistant to oil, weather and abrasion

Application Electrical Coolant application; Conveying coolants in Furnace, specially designed for Low Leakage Current, leakage current levels less than 15 Micro Amps at 5000V DC

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|-----|-------|-------|------|-------|-----|-----|------|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH555-06 | -06 | 10 | 3/8 | 9.7 | 0.75 | 19.0 | 290 | 20 | 1015 | 70 | 3.9 | 100 | 0.339 |
| PH555-08 | -08 | 12 | 1/2 | 12.7 | 0.85 | 21.5 | 290 | 20 | 1015 | 70 | 3.9 | 100 | 0.367 |
| PH555-10 | -10 | 16 | 5/8 | 16.0 | 1.02 | 26.0 | 290 | 20 | 1015 | 70 | 4.5 | 115 | 0.534 |
| PH555-12 | -12 | 19 | 3/4 | 20.0 | 1.22 | 31.0 | 290 | 20 | 1015 | 70 | 4.9 | 125 | 0.731 |
| PH555-16 | -16 | 25 | 1 | 26.0 | 1.50 | 38.0 | 290 | 20 | 1015 | 70 | 5.9 | 150 | 0.941 |
| PH555-20 | -20 | 31 | 1.1/4 | 32.5 | 1.77 | 45.0 | 290 | 20 | 1015 | 70 | 7.9 | 200 | 1.355 |
| PH555-24 | -24 | 38 | 1.1/2 | 39.0 | 2.09 | 53.0 | 290 | 20 | 1015 | 70 | 8.9 | 225 | 1.816 |
| PH555-32 | -32 | 51 | 2 | 52.0 | 2.56 | 65.0 | 290 | 20 | 1015 | 70 | 11.8 | 300 | 2.476 |
| PH555-48 | -48 | 76 | 3 | 76.0 | 3.68 | 93.5 | 290 | 20 | 1015 | 70 | 17.7 | 450 | 3.229 |
| PH555-64 | -64 | 100 | 4 | 100.0 | 4.53 | 115.0 | 290 | 20 | 1015 | 70 | 23.6 | 600 | 3.305 |



Temperature Range: Continuous: -40°C to +100°C

PH566 - AIR BREATHING HOSE

Applicable standard: EN14593/14594



Construction

Inner tube Black colour, EPDM rubber

Reinforcement Single textile braid

Cover Black colour, EPDM rubber smooth finish perforated cover. Available in Wrap and Smooth finish*

Application Hose used in compressed air lines for carrying breathing air at high pressure from compressor to filter
Good ozone, heat & external resistance to several chemicals

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|------|------|-----|-----|------|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | kg/m |
| PH566-04 | -4 | 6 | 1/4 | 6.4 | 0.61 | 15.4 | 510 | 35 | 2030 | 140 | 4.48 | 65 | 0.246 |
| PH566-06 | -6 | 10 | 3/8 | 9.5 | 0.73 | 18.5 | 510 | 35 | 2030 | 140 | 5.17 | 75 | 0.301 |
| PH566-08 | -8 | 12 | 1/2 | 12.7 | 0.84 | 21.3 | 510 | 35 | 2030 | 140 | 6.90 | 100 | 0.350 |

Electrical Resistance: 103Ω/m < R < 108Ω/m



Temperature Range: Continuous: -40°C to +120°C

*Smooth cover available only upto size 1"

PH601 - WATER SUCTION & DISCHARGE HOSE W.P. 10 BAR



Construction

Inner tube Black colour, Synthetic rubber resistant to water

Reinforcement Plies of synthetic textile cords with steel helix

Cover Black colour, Synthetic rubber, wrapped type, abrasion water resistant

Application Mandrel built heavy duty suction and discharge hose for handling of water, inert fluid, sewerages and waste water, where optimum flexibility is required

| Cover options |
|---|
| PH640 : Both inner and outer cover EPDM |

| Item Code | Dash Size | ID | | OD | | WP | | BP | | V | W |
|-----------|-----------|-------|-------|------|-------|-----|-----|-----|-----|------|-------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | bar | kg/m |
| PH601-12 | -12 | 3/4 | 19.0 | 1.14 | 29.0 | 150 | 10 | 435 | 30 | 0.90 | 0.69 |
| PH601-16 | -16 | 1 | 25.0 | 1.38 | 35.0 | 150 | 10 | 435 | 30 | 0.90 | 0.80 |
| PH601-20 | -20 | 1.1/4 | 32.0 | 1.65 | 42.0 | 150 | 10 | 435 | 30 | 0.90 | 0.96 |
| PH601-24 | -24 | 1.1/2 | 38.0 | 1.89 | 48.0 | 150 | 10 | 435 | 30 | 0.90 | 1.11 |
| PH601-32 | -32 | 2 | 51.0 | 2.44 | 62.0 | 150 | 10 | 435 | 30 | 0.90 | 1.50 |
| PH601-40 | -40 | 2.1/2 | 63.0 | 2.95 | 75.0 | 150 | 10 | 435 | 30 | 0.90 | 1.96 |
| PH601-48 | -48 | 3 | 76.0 | 3.46 | 88.0 | 150 | 10 | 435 | 30 | 0.90 | 2.40 |
| PH601-56 | -56 | 3.1/2 | 89.0 | 4.02 | 102.0 | 150 | 10 | 435 | 30 | 0.90 | 2.90 |
| PH601-64 | -64 | 4 | 102.0 | 4.57 | 116.0 | 150 | 10 | 435 | 30 | 0.90 | 3.30 |
| PH601-80 | -80 | 5 | 127.0 | 5.55 | 141.0 | 150 | 10 | 435 | 30 | 0.90 | 5.20 |
| PH601-96 | -96 | 6 | 152.0 | 6.73 | 171.0 | 150 | 10 | 435 | 30 | 0.80 | 6.70 |
| PH601-128 | -128 | 8 | 203.0 | 8.78 | 223.0 | 150 | 10 | 435 | 30 | 0.70 | 11.20 |



Temperature Range: Continuous: -25°C to +70°C

PH602 - WATER DISCHARGE HOSE W.P. 10 BAR - LAY FLAT



Construction

Inner tube Black colour, Synthetic rubber resistant to water

Reinforcement Plies of synthetic textile cords

Cover Black colour, Synthetic rubber, wrapped type, abrasion water resistant

Application Light weight rubber hose design for water, natural liquid fertilizer, waste water, for submerged pump and irrigation systems

| Item Code | Dash Size | ID | | OD | | WP | | BP | | W |
|-----------|-----------|-------|-------|------|-------|-----|-----|-----|-----|------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | kg/m |
| PH602-16 | -16 | 1 | 25.0 | 1.26 | 32.0 | 150 | 10 | 435 | 30 | 0.48 |
| PH602-20 | -20 | 1.1/4 | 32.0 | 1.54 | 39.0 | 150 | 10 | 435 | 30 | 0.62 |
| PH602-24 | -24 | 1.1/2 | 38.0 | 1.77 | 45.0 | 150 | 10 | 435 | 30 | 0.80 |
| PH602-32 | -32 | 2 | 51.0 | 2.28 | 58.0 | 150 | 10 | 435 | 30 | 0.94 |
| PH602-40 | -40 | 2.1/2 | 63.0 | 2.76 | 70.0 | 150 | 10 | 435 | 30 | 1.20 |
| PH602-48 | -48 | 3 | 76.0 | 3.27 | 83.0 | 150 | 10 | 435 | 30 | 1.50 |
| PH602-56 | -56 | 3.1/2 | 89.0 | 3.82 | 97.0 | 150 | 10 | 435 | 30 | 1.70 |
| PH602-64 | -64 | 4 | 102.0 | 4.29 | 109.0 | 150 | 10 | 435 | 30 | 2.20 |
| PH602-80 | -80 | 5 | 127.0 | 5.39 | 137.0 | 150 | 10 | 435 | 30 | 3.80 |
| PH602-96 | -96 | 6 | 152.0 | 6.38 | 162.0 | 150 | 10 | 435 | 30 | 4.50 |
| PH602-128 | -128 | 8 | 203.0 | 8.54 | 217.0 | 150 | 10 | 435 | 30 | 6.10 |



Temperature Range: Continuous: -25°C to +70°C

PH604 - WATER SUCTION & DISCHARGE HOSE W.P. 20 BAR



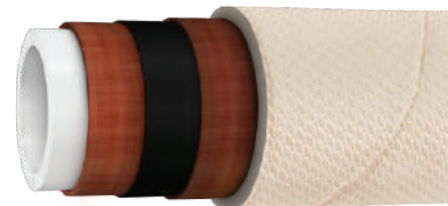
Construction

- Inner tube** Black colour, Synthetic rubber resistant to water
- Reinforcement** Plies of synthetic textile cords with steel helix
- Cover** Black colour, Synthetic rubber, wrapped type, abrasion water resistant
- Application** Mandrel built heavy duty water suction and discharge hose for handling water, inert fluid, sewerages, waste water, where optimum flexibility is required

| Item Code | Dash Size | ID | | OD | | WP | | BP | | W kg/m |
|-----------|-----------|-------|-------|------|-------|-----|-----|-----|-----|-----------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | |
| PH604-12 | -12 | 3/4 | 19.0 | 1.14 | 29.0 | 300 | 20 | 900 | 60 | 0.70 |
| PH604-16 | -16 | 1 | 25.0 | 1.38 | 35.0 | 300 | 20 | 900 | 60 | 0.85 |
| PH604-20 | -20 | 1.1/4 | 32.0 | 1.65 | 42.0 | 300 | 20 | 900 | 60 | 0.99 |
| PH604-24 | -24 | 1.1/2 | 38.0 | 1.97 | 50.0 | 300 | 20 | 900 | 60 | 1.42 |
| PH604-32 | -32 | 2 | 51.0 | 2.56 | 65.0 | 300 | 20 | 900 | 60 | 2.04 |
| PH604-40 | -40 | 2.1/2 | 64.0 | 3.07 | 78.0 | 300 | 20 | 900 | 60 | 2.65 |
| PH604-48 | 48 | 3 | 76.0 | 3.54 | 90.0 | 300 | 20 | 900 | 60 | 3.11 |
| PH604-56 | 56 | 3.1/2 | 89.0 | 4.09 | 104.0 | 300 | 20 | 900 | 60 | 3.90 |
| PH604-64 | -64 | 4 | 102.0 | 4.65 | 118.0 | 300 | 20 | 900 | 60 | 4.57 |
| PH604-80 | -80 | 5 | 127.0 | 5.63 | 143.0 | 300 | 20 | 900 | 60 | 6.29 |
| PH604-96 | -96 | 6 | 152.0 | 6.89 | 175.0 | 300 | 20 | 900 | 60 | 9.40 |
| PH604-128 | -128 | 8 | 203.0 | 9.17 | 233.0 | 300 | 20 | 900 | 60 | 14.40 |

 **Temperature Range:** Continuous: -25°C to +70°C

PH606 - STEEL MILL WATER DELIVERY HOSE WITH FIBER GLASS COVER



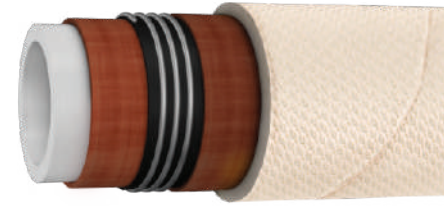
Construction

- Inner tube** White colour, EPDM Rubber resistant to hot water
- Reinforcement** Plies of synthetic textile cords
- Cover** Fiber glass cloth cover
- Application** Water Delivery Hose for application in Steel Mills and Glass industries. The Fiber Glass cover resists occasional contact of molten particles and protection against flame

| Item Code | Dash Size | ID | | OD | | WP | | BP | | W kg/m |
|-----------|-----------|-------|-------|------|-------|-----|-----|-----|-----|-----------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | |
| PH606-16 | -16 | 1 | 25.0 | 1.54 | 39.0 | 150 | 10 | 435 | 30 | 0.75 |
| PH606-20 | -20 | 1.1/4 | 32.0 | 1.81 | 46.0 | 150 | 10 | 435 | 30 | 1.10 |
| PH606-24 | -24 | 1.1/2 | 38.0 | 2.13 | 54.0 | 150 | 10 | 435 | 30 | 1.55 |
| PH606-32 | -32 | 2 | 51.0 | 2.72 | 69.0 | 150 | 10 | 435 | 30 | 1.71 |
| PH606-40 | -40 | 2.1/2 | 64.0 | 3.39 | 86.0 | 150 | 10 | 435 | 30 | 2.90 |
| PH606-48 | -48 | 3 | 76.0 | 3.86 | 98.0 | 150 | 10 | 435 | 30 | 3.40 |
| PH606-64 | -64 | 4 | 102.0 | 4.88 | 124.0 | 150 | 10 | 435 | 30 | 4.87 |

 **Temperature Range:** Continuous: -40°C to +130°C Outside Temperature: Up to 500°C

PH607 - STEEL MILL WATER SUCTION AND DELIVERY HOSE WITH FIBER GLASS COVER



Construction

Inner tube White colour, EPDM Rubber resistant to hot water

Reinforcement Plies of synthetic textile cords with steel helix

Cover Fiber glass cloth cover

Application Water suction and delivery hose for application in Steel Mills and Glass industries. The Fiber glass cover resists occasional contact of molten particles and protection against flame

2

| Item Code | Dash Size | ID | | OD | | WP | | BP | | W kg/m |
|-----------|-----------|-------|-------|------|-------|-----|-----|-----|-----|-----------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | |
| PH607-16 | -16 | 1 | 25.0 | 1.54 | 39.0 | 150 | 10 | 435 | 30 | 0.90 |
| PH607-20 | -20 | 1.1/4 | 32.0 | 1.81 | 46.0 | 150 | 10 | 435 | 30 | 1.40 |
| PH607-24 | -24 | 1.1/2 | 38.0 | 2.13 | 54.0 | 150 | 10 | 435 | 30 | 1.70 |
| PH607-32 | -32 | 2 | 51.0 | 2.72 | 69.0 | 150 | 10 | 435 | 30 | 1.98 |
| PH607-40 | -40 | 2.1/2 | 64.0 | 3.39 | 86.0 | 150 | 10 | 435 | 30 | 3.20 |
| PH607-48 | -48 | 3 | 76.0 | 3.86 | 98.0 | 150 | 10 | 435 | 30 | 3.80 |
| PH607-64 | -64 | 4 | 102.0 | 4.88 | 124.0 | 150 | 10 | 435 | 30 | 5.20 |



Temperature Range: Continuous: -40°C to +130°C Outside Temperature: Up to 500°C

PH609 - THERMOPLASTIC LINED PAINT S & D HOSE 10 BAR



Construction

Inner tube Black colour, Synthetic rubber with Thermoplastic liner

Reinforcement Plies of synthetic textile cords with steel helix and two cross antistatic copper wires

Cover Black synthetic rubber resistant to ozone, weather and abrasion

Application For suction and conveying paint and allied chemicals

| Item Code | Dash Size | ID | | OD | | WP | | BP | | V bar | W kg/m |
|-----------|-----------|-------|------|------|------|-----|-----|-----|-----|----------|-----------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | | |
| PH609-08 | -08 | 1/2 | 12.0 | 0.87 | 22.0 | 150 | 10 | 450 | 30 | 0.90 | 0.45 |
| PH609-12 | -12 | 3/4 | 19.0 | 1.22 | 31.0 | 150 | 10 | 450 | 30 | 0.90 | 0.69 |
| PH609-16 | -16 | 1 | 25.0 | 1.46 | 37.0 | 150 | 10 | 450 | 30 | 0.90 | 0.85 |
| PH609-20 | -20 | 1.1/4 | 32.0 | 1.73 | 44.0 | 150 | 10 | 450 | 30 | 0.90 | 1.10 |
| PH609-24 | -24 | 1.1/2 | 38.0 | 1.97 | 50.0 | 150 | 10 | 450 | 30 | 0.90 | 1.20 |
| PH609-32 | -32 | 2 | 51.0 | 2.48 | 63.0 | 150 | 10 | 450 | 30 | 0.90 | 1.60 |



Temperature Range: Continuous: -40°C to +80°C

PH610 - WATER DISCHARGE HOSE - W.P. 20 BAR



Construction

- Inner tube** Black colour, Synthetic rubber resistant to water
- Reinforcement** Plies of synthetic textile cords
- Cover** Black colour, Synthetic rubber, wrapped type, abrasion water resistant
- Application** Light weight rubber collapsible hose design for water, natural liquid fertilizers, waste water, for submerged pump and irrigation system

| Item Code | Dash Size | ID | | OD | | WP | | BP | | W |
|-----------|-----------|-------|-------|------|-------|-----|-----|-----|-----|------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | |
| PH610-16 | -16 | 1 | 25.0 | 1.34 | 34.0 | 300 | 20 | 900 | 60 | 0.53 |
| PH610-20 | -20 | 1.1/4 | 32.0 | 1.65 | 42.0 | 300 | 20 | 900 | 60 | 0.84 |
| PH610-24 | -24 | 1.1/2 | 38.0 | 1.89 | 48.0 | 300 | 20 | 900 | 60 | 0.98 |
| PH610-32 | -32 | 2 | 51.0 | 2.44 | 62.0 | 300 | 20 | 900 | 60 | 1.10 |
| PH610-40 | -40 | 2.1/2 | 63.0 | 2.99 | 76.0 | 300 | 20 | 900 | 60 | 1.50 |
| PH610-48 | -48 | 3 | 76.0 | 3.50 | 89.0 | 300 | 20 | 900 | 60 | 1.72 |
| PH610-56 | -56 | 3.1/2 | 89.0 | 4.06 | 103.0 | 300 | 20 | 900 | 60 | 2.10 |
| PH610-64 | -64 | 4 | 102.0 | 4.57 | 116.0 | 300 | 20 | 900 | 60 | 2.40 |
| PH610-80 | -80 | 5 | 127.0 | 5.59 | 142.0 | 300 | 20 | 900 | 60 | 3.00 |
| PH610-96 | -96 | 6 | 152.0 | 6.57 | 167.0 | 300 | 20 | 900 | 60 | 5.00 |
| PH610-128 | -128 | 8 | 203.0 | 8.62 | 219.0 | 300 | 20 | 900 | 60 | 7.20 |



Temperature Range: Continuous: -25°C to +70°C

PH611 - OIL / FUEL SUCTION & DISCHARGE HOSE W.P. 10 BAR



Construction

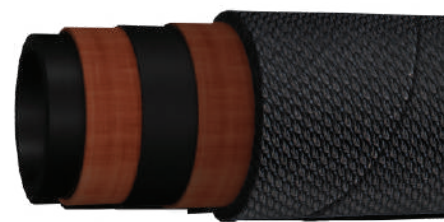
- Inner tube** Black colour, Synthetic rubber resistant to oil
- Reinforcement** Plies of synthetic textile cords with steel helix and two cross antistatic copper wires
- Cover** Black colour, Synthetic rubber resistant to oil, ozone and abrasion
- Application** Mandrel built heavy duty oil suction and discharge hose for handling grades of gasoline or petroleum oils of aromatic content upto 50% from tank truck, in dispensing station etc, during winter/summer seasons and withstands full vacuum

| Item Code | Dash Size | ID | | OD | | WP | | BP | | V | W |
|-----------|-----------|-------|-------|------|-------|-----|-----|-----|-----|------|-------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | bar | |
| PH611-12 | -12 | 3/4 | 19.0 | 1.14 | 29.0 | 150 | 10 | 435 | 30 | 0.90 | 0.60 |
| PH611-16 | -16 | 1 | 25.0 | 1.38 | 35.0 | 150 | 10 | 435 | 30 | 0.90 | 0.74 |
| PH611-20 | -20 | 1.1/4 | 32.0 | 1.65 | 42.0 | 150 | 10 | 435 | 30 | 0.90 | 0.90 |
| PH611-24 | -24 | 1.1/2 | 38.0 | 1.89 | 48.0 | 150 | 10 | 435 | 30 | 0.90 | 1.10 |
| PH611-32 | -32 | 2 | 51.0 | 2.44 | 62.0 | 150 | 10 | 435 | 30 | 0.90 | 1.40 |
| PH611-40 | -40 | 2.1/2 | 63.0 | 2.95 | 75.0 | 150 | 10 | 435 | 30 | 0.90 | 2.10 |
| PH611-48 | -48 | 3 | 76.0 | 3.54 | 90.0 | 150 | 10 | 435 | 30 | 0.90 | 2.70 |
| PH611-56 | -56 | 3.1/2 | 89.0 | 4.09 | 104.0 | 150 | 10 | 435 | 30 | 0.90 | 3.10 |
| PH611-64 | -64 | 4 | 102.0 | 4.61 | 117.0 | 150 | 10 | 435 | 30 | 0.90 | 3.80 |
| PH611-80 | -80 | 5 | 127.0 | 5.63 | 143.0 | 150 | 10 | 435 | 30 | 0.90 | 6.00 |
| PH611-96 | -96 | 6 | 152.0 | 6.61 | 168.0 | 150 | 10 | 435 | 30 | 0.80 | 7.40 |
| PH611-128 | -128 | 8 | 203.0 | 8.82 | 224.0 | 150 | 10 | 435 | 30 | 0.70 | 12.20 |



Temperature Range: Continuous: -20°C to +80°C

PH613 - OIL / FUEL DELIVERY HOSE W.P. 10 BAR



Construction

- Inner tube** Black colour, Synthetic rubber resistant to oil
- Reinforcement** Plies of synthetic textile cords with two cross anti static copper wires
- Cover** Black colour, Synthetic rubber resistant to oil, ozone and abrasion
- Application** Mandrel built heavy duty oil discharge hose for handling grades of gasoline or petroleum oils of aromatic content upto 50% in dispensing station etc, during winter/summer seasons

| Item Code | Dash Size | ID | | OD | | WP | | BP | | W kg/m |
|-----------|-----------|-------|-------|------|-------|-----|-----|-----|-----|-----------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | |
| PH613-12 | -12 | 3/4 | 19.0 | 1.06 | 27.0 | 150 | 10 | 435 | 30 | 0.52 |
| PH613-16 | -16 | 1 | 25.0 | 1.38 | 35.0 | 150 | 10 | 435 | 30 | 0.65 |
| PH613-20 | -20 | 1.1/4 | 32.0 | 1.65 | 42.0 | 150 | 10 | 435 | 30 | 0.80 |
| PH613-24 | -24 | 1.1/2 | 38.0 | 1.89 | 48.0 | 150 | 10 | 435 | 30 | 0.94 |
| PH613-32 | -32 | 2 | 51.0 | 2.44 | 62.0 | 150 | 10 | 435 | 30 | 1.26 |
| PH613-40 | -40 | 2.1/2 | 63.0 | 2.95 | 75.0 | 150 | 10 | 435 | 30 | 1.90 |
| PH613-48 | -48 | 3 | 76.0 | 3.46 | 88.0 | 150 | 10 | 435 | 30 | 2.20 |
| PH613-56 | -56 | 3.1/2 | 89.0 | 4.09 | 104.0 | 150 | 10 | 435 | 30 | 2.60 |
| PH613-64 | -64 | 4 | 102.0 | 4.57 | 116.0 | 150 | 10 | 435 | 30 | 2.85 |
| PH613-80 | -80 | 5 | 127.0 | 5.59 | 142.0 | 150 | 10 | 435 | 30 | 4.20 |
| PH613-96 | -96 | 6 | 152.0 | 6.54 | 166.0 | 150 | 10 | 435 | 30 | 5.30 |



Temperature Range: Continuous: -20°C to +80°C

PH614 - OIL SUCTION & DISCHARGE HOSE W.P. 20 BAR



Construction

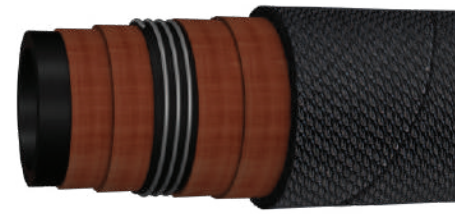
- Inner tube** Black colour, Synthetic rubber resistant to oil
- Reinforcement** Plies of synthetic textile cords with steel helix and two cross anti static copper wires
- Cover** Black colour, Synthetic rubber resistant to oil, ozone and abrasion
- Application** Mandrel built heavy duty oil suction and discharge hose for handling grades of gasoline or petroleum oils of aromatic content upto 50% from tank truck, in dispensing station etc, during winter/summer seasons and withstands full vacuum

| Item Code | Dash Size | ID | | OD | | WP | | BP | | V bar | W kg/m |
|-----------|-----------|-------|-------|------|-------|-----|-----|-----|-----|----------|-----------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | | |
| PH614-12 | -12 | 3/4 | 19.0 | 1.14 | 29.0 | 300 | 20 | 870 | 60 | 0.90 | 0.60 |
| PH614-16 | -16 | 1 | 25.0 | 1.38 | 35.0 | 300 | 20 | 870 | 60 | 0.90 | 0.86 |
| PH614-20 | -20 | 1.1/4 | 32.0 | 1.65 | 42.0 | 300 | 20 | 870 | 60 | 0.90 | 1.03 |
| PH614-24 | -24 | 1.1/2 | 38.0 | 1.93 | 49.0 | 300 | 20 | 870 | 60 | 0.90 | 1.20 |
| PH614-32 | -32 | 2 | 51.0 | 2.48 | 63.0 | 300 | 20 | 870 | 60 | 0.90 | 1.80 |
| PH614-40 | -40 | 2.1/2 | 63.0 | 3.03 | 77.0 | 300 | 20 | 870 | 60 | 0.90 | 2.40 |
| PH614-48 | -48 | 3 | 76.0 | 3.54 | 90.0 | 300 | 20 | 870 | 60 | 0.90 | 2.90 |
| PH614-56 | -56 | 3.1/2 | 89.0 | 4.09 | 104.0 | 300 | 20 | 870 | 60 | 0.90 | 3.60 |
| PH614-64 | -64 | 4 | 102.0 | 4.65 | 118.0 | 300 | 20 | 870 | 60 | 0.90 | 4.10 |
| PH614-80 | -80 | 5 | 127.0 | 5.63 | 143.0 | 300 | 20 | 870 | 60 | 0.90 | 6.80 |
| PH614-96 | -96 | 6 | 152.0 | 6.77 | 172.0 | 300 | 20 | 870 | 60 | 0.90 | 9.00 |
| PH614-128 | -128 | 8 | 203.0 | 8.94 | 227.0 | 300 | 20 | 870 | 60 | 0.90 | 14.00 |



Temperature Range: Continuous: -20°C to +80°C

PH615 - OIL SUCTION & DISCHARGE HOSE - 40 BAR



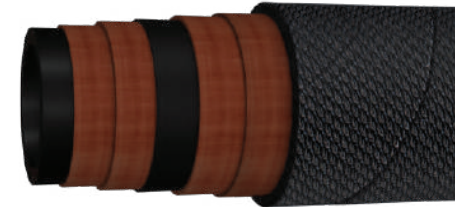
Construction

- Inner tube** Black colour, Synthetic rubber resistant to oil
- Reinforcement** Plies of synthetic textile cords with steel helix and two cross anti static copper wires
- Cover** Black colour, Synthetic rubber resistant to oil, ozone and abrasion
- Application** Mandrel built heavy duty oil suction and discharge hose for handling grades of gasoline or petroleum oils of aromatic content upto 50% from tank truck, in dispensing station etc, during winter/summer seasons and withstands full vacuum

| Item Code | Dash Size | ID | | OD | | WP | | BP | | V | W |
|-----------|-----------|------|-------|------|-------|-----|-----|------|-----|------|-------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | | |
| PH615-32 | -32 | 2 | 51.0 | 2.99 | 76.0 | 600 | 40 | 1200 | 80 | 0.90 | 3.41 |
| PH615-48 | -48 | 3 | 76.0 | 3.90 | 99.0 | 600 | 40 | 1200 | 80 | 0.90 | 5.20 |
| PH615-64 | -64 | 4 | 102.0 | 5.04 | 128.0 | 600 | 40 | 1200 | 80 | 0.90 | 6.80 |
| PH615-96 | -96 | 6 | 152.0 | 7.01 | 178.0 | 600 | 40 | 1200 | 80 | 0.90 | 11.00 |

 **Temperature Range:** Continuous: -20°C to +80°C

PH617 - OIL FUEL DELIVERY HOSE - 20 BAR



Construction

- Inner tube** Black colour, Synthetic rubber resistant to oil
- Reinforcement** Plies of synthetic textile cords and two cross anti static copper wires
- Cover** Black colour, Synthetic rubber resistant to oil, ozone and abrasion
- Application** Mandrel built oil discharge hose for handling grades of gasoline or petroleum oils of aromatic content upto 50% in dispensing station etc, during winter/summer seasons

| Item Code | Dash Size | ID | | OD | | WP | | BP | | W |
|-----------|-----------|-------|-------|------|-------|-----|-----|-----|-----|------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | |
| PH617-12 | -12 | 3/4 | 19.0 | 1.06 | 27.0 | 300 | 20 | 870 | 60 | 0.68 |
| PH617-16 | -16 | 1 | 25.0 | 1.38 | 35.0 | 300 | 20 | 870 | 60 | 0.81 |
| PH617-20 | -20 | 1.1/4 | 32.0 | 1.65 | 42.0 | 300 | 20 | 870 | 60 | 1.22 |
| PH617-24 | -24 | 1.1/2 | 38.0 | 1.89 | 48.0 | 300 | 20 | 870 | 60 | 1.35 |
| PH617-32 | -32 | 2 | 51.0 | 2.44 | 62.0 | 300 | 20 | 870 | 60 | 2.04 |
| PH617-40 | -40 | 2.1/2 | 63.0 | 2.95 | 75.0 | 300 | 20 | 870 | 60 | 2.65 |
| PH617-48 | -48 | 3 | 76.0 | 3.46 | 88.0 | 300 | 20 | 870 | 60 | 3.08 |
| PH617-56 | -56 | 3.1/2 | 89.0 | 4.09 | 104.0 | 300 | 20 | 870 | 60 | 3.60 |
| PH617-64 | -64 | 4 | 102.0 | 4.57 | 116.0 | 300 | 20 | 870 | 60 | 4.87 |
| PH617-80 | -80 | 5 | 127.0 | 5.59 | 142.0 | 300 | 20 | 870 | 60 | 5.60 |
| PH617-96 | -96 | 6 | 152.0 | 6.54 | 166.0 | 300 | 20 | 870 | 60 | 7.00 |

 **Temperature Range:** Continuous: -20°C to +80°C

PH620 - AIR & WATER DISCHARGE HOSE - 10 BAR

Construction

- Inner tube** Black colour, Synthetic rubber resistant to oil
- Reinforcement** Plies of synthetic textile cords
- Cover** Black colour, Synthetic rubber resistant to oil, ozone and abrasion
- Application** Light weight hose designed for air, water & dust delivery in underground mines



2

| Item Code | Dash Size | ID | | OD | | WP | | BP | | W |
|-----------|-----------|-------|-------|------|-------|-----|-----|-----|-----|------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | kg/m |
| PH620-16 | -16 | 1 | 25.0 | 1.26 | 32.0 | 150 | 10 | 435 | 30 | 0.48 |
| PH620-20 | -20 | 1.1/4 | 32.0 | 1.54 | 39.0 | 150 | 10 | 435 | 30 | 0.62 |
| PH620-24 | -24 | 1.1/2 | 38.0 | 1.77 | 45.0 | 150 | 10 | 435 | 30 | 0.80 |
| PH620-32 | -32 | 2 | 51.0 | 2.28 | 58.0 | 150 | 10 | 435 | 30 | 0.94 |
| PH620-40 | -40 | 2.1/2 | 63.0 | 2.76 | 70.0 | 150 | 10 | 435 | 30 | 1.20 |
| PH620-48 | -48 | 3 | 76.0 | 3.27 | 83.0 | 150 | 10 | 435 | 30 | 1.50 |
| PH620-56 | -56 | 3.1/2 | 89.0 | 3.82 | 97.0 | 150 | 10 | 435 | 30 | 1.70 |
| PH620-64 | -64 | 4 | 102.0 | 4.29 | 109.0 | 150 | 10 | 435 | 30 | 2.20 |
| PH620-80 | -80 | 5 | 127.0 | 5.39 | 137.0 | 150 | 10 | 435 | 30 | 3.80 |
| PH620-96 | -96 | 6 | 152.0 | 6.38 | 162.0 | 150 | 10 | 435 | 30 | 4.50 |
| PH620-128 | -128 | 8 | 203.0 | 8.54 | 217.0 | 150 | 10 | 435 | 30 | 6.10 |



Temperature Range: Continuous: -25°C to +70°C

PH621 - CEMENT / PLASTER PLACEMENT HOSE

Construction

- Inner tube** Black colour, Synthetic and natural rubber blend resistant to abrasion
- Reinforcement** Plies of synthetic textile cords
- Cover** Black colour, Synthetic rubber resistant to ozone, weather and abrasion
- Application** For Cement/ Plaster/ Sand placement in construction industry



| Item Code | Dash Size | ID | | OD | | WP | | BP | | W |
|-----------|-----------|-------|-------|------|-------|-----|-----|-----|-----|-------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | kg/m |
| PH621-16 | -16 | 1 | 25.0 | 1.46 | 37.0 | 150 | 10 | 435 | 30 | 0.70 |
| PH621-20 | -20 | 1.1/4 | 32.0 | 1.81 | 46.0 | 150 | 10 | 435 | 30 | 0.99 |
| PH621-24 | -24 | 1.1/2 | 38.0 | 2.05 | 52.0 | 150 | 10 | 435 | 30 | 1.42 |
| PH621-32 | -32 | 2 | 51.0 | 2.56 | 65.0 | 150 | 10 | 435 | 30 | 2.04 |
| PH621-40 | -40 | 2.1/2 | 64.0 | 3.15 | 80.0 | 150 | 10 | 435 | 30 | 2.65 |
| PH621-48 | -48 | 3 | 76.0 | 3.62 | 92.0 | 150 | 10 | 435 | 30 | 3.11 |
| PH621-64 | -64 | 4 | 102.0 | 4.65 | 118.0 | 150 | 10 | 435 | 30 | 4.57 |
| PH621-80 | -80 | 5 | 127.0 | 5.79 | 147.0 | 150 | 10 | 435 | 30 | 6.29 |
| PH621-96 | -96 | 6 | 152.0 | 6.93 | 176.0 | 150 | 10 | 435 | 30 | 9.40 |
| PH621-128 | -128 | 8 | 203.0 | 9.09 | 231.0 | 150 | 10 | 435 | 30 | 14.40 |



Temperature Range: Continuous: -30°C to +70°C

PH622 - HIGH PRESSURE PLASTER SPRAY HOSE



Construction

Inner tube Black colour, Synthetic and natural rubber blend resistant to abrasion

Reinforcement Plies of synthetic textile cords

Cover Black colour, Synthetic rubber resistant to ozone, weather and abrasion

Application For High Pressure Cement/ Plaster Spraying in construction industry

| Item Code | Dash Size | ID | | OD | | WP | | BP | | W kg/m |
|-----------|-----------|-------|-------|------|-------|-----|-----|------|-----|-----------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | |
| PH 622-16 | -16 | 1 | 25.0 | 1.54 | 39.0 | 580 | 40 | 1740 | 120 | 0.93 |
| PH 622-20 | -20 | 1.1/4 | 32.0 | 1.81 | 46.0 | 580 | 40 | 1740 | 120 | 1.15 |
| PH 622-24 | -24 | 1.1/2 | 38.0 | 2.13 | 54.0 | 580 | 40 | 1740 | 120 | 1.60 |
| PH 622-32 | -32 | 2 | 51.0 | 2.72 | 69.0 | 580 | 40 | 1740 | 120 | 2.50 |
| PH 622-40 | -40 | 2.1/2 | 64.0 | 3.39 | 86.0 | 580 | 40 | 1740 | 120 | 3.00 |
| PH 622-48 | -48 | 3 | 76.0 | 3.86 | 98.0 | 580 | 40 | 1740 | 120 | 4.20 |
| PH 622-64 | -64 | 4 | 102.0 | 5.12 | 130.0 | 580 | 40 | 1740 | 120 | 5.60 |
| PH 622-80 | -80 | 5 | 127.0 | 6.18 | 157.0 | 580 | 40 | 1740 | 120 | 6.00 |



Temperature Range: Continuous: -30°C to +70°C

PH623 - BULK MATERIAL SUCTION AND DISCHARGE HOSE W.P. 10 BAR



Construction

Inner tube Black colour, Synthetic and natural rubber blend resistant to abrasion

Reinforcement Plies of synthetic textile cords with steel helix and two cross antistatic copper wires

Cover Black colour, Synthetic rubber resistant to ozone, weather and abrasion

Application For Suction and Discharge of bulk material dry cement, gravel, sand, etc., in construction industry

| Item Code | Dash Size | ID | | OD | | WP | | BP | | V bar | W kg/m |
|-----------|-----------|-------|-------|------|-------|-----|-----|-----|-----|----------|-----------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | | |
| PH623-16 | -16 | 1 | 25.0 | 1.54 | 39.0 | 150 | 10 | 435 | 30 | 0.9 | 1.15 |
| PH623-20 | -20 | 1.1/4 | 32.0 | 1.77 | 45.0 | 150 | 10 | 435 | 30 | 0.9 | 1.40 |
| PH623-24 | -24 | 1.1/2 | 38.0 | 2.05 | 52.0 | 150 | 10 | 435 | 30 | 0.9 | 1.70 |
| PH623-32 | -32 | 2 | 51.0 | 2.56 | 65.0 | 150 | 10 | 435 | 30 | 0.9 | 1.80 |
| PH623-40 | -40 | 2.1/2 | 64.0 | 3.11 | 79.0 | 150 | 10 | 435 | 30 | 0.9 | 2.00 |
| PH623-48 | -48 | 3 | 76.0 | 3.62 | 92.0 | 150 | 10 | 435 | 30 | 0.9 | 3.15 |
| PH623-64 | -64 | 4 | 102.0 | 4.72 | 120.0 | 150 | 10 | 435 | 30 | 0.9 | 5.00 |
| PH623-80 | -80 | 5 | 127.0 | 5.79 | 147.0 | 150 | 10 | 435 | 30 | 0.9 | 6.70 |
| PH623-96 | -96 | 6 | 152.0 | 6.85 | 174.0 | 150 | 10 | 435 | 30 | 0.9 | 8.90 |



Temperature Range: Continuous: -30°C to +70°C

PH624 - SHOT BLASTING HOSE W.P. 12 BAR - PH2

Construction

Inner tube Black colour, Synthetic and natural rubber blend resistant to abrasion

Reinforcement Plies of synthetic textile cords with two cross anti static copper wires

Cover Black colour, Synthetic rubber resistant to ozone, weather and abrasion

Application Suitably designed long lasting heavy duty hose for use in sand, metal grits and foundry waste with conductive rubber compound to ensure static electricity dissipation abrasion loss of the tube according to ISO 4649: 50+5mm3



Inner tube option

PH674-PH1 : Premium abrasion

2

| Item Code | Dash Size | ID | | OD | | WP | | BP | | W kg/m |
|-----------|-----------|-------|-------|------|-------|-----|-----|-----|-----|-----------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | |
| PH624-08 | -08 | 1/2 | 12.7 | 1.06 | 27.0 | 175 | 12 | 525 | 36 | 0.61 |
| PH624-12 | -12 | 3/4 | 19.0 | 1.34 | 34.0 | 175 | 12 | 525 | 36 | 0.80 |
| PH624-16 | -16 | 1 | 25.0 | 1.57 | 40.0 | 175 | 12 | 525 | 36 | 0.97 |
| PH624-20 | -20 | 1.1/4 | 32.0 | 1.89 | 48.0 | 175 | 12 | 525 | 36 | 1.32 |
| PH624-24 | -24 | 1.1/2 | 38.0 | 2.13 | 54.0 | 175 | 12 | 525 | 36 | 1.45 |
| PH624-32 | -32 | 2 | 51.0 | 2.87 | 73.0 | 175 | 12 | 525 | 36 | 2.20 |
| PH624-40 | -40 | 2.1/2 | 64.0 | 3.35 | 85.0 | 175 | 12 | 525 | 36 | 3.26 |
| PH624-48 | -48 | 3 | 76.0 | 3.94 | 100.0 | 175 | 12 | 525 | 36 | 3.90 |
| PH624-64 | -64 | 4 | 102.0 | 4.96 | 126.0 | 175 | 12 | 525 | 36 | 4.40 |



Temperature Range: Continuous: -30°C to +70°C

PH625 - BUNKER TRUCK HOT AIR BLOWER HOSE W.P. 10 BAR

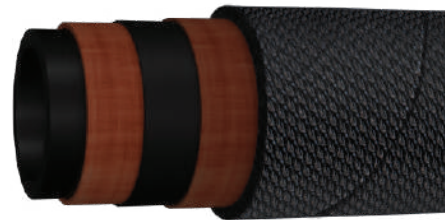
Construction

Inner tube Black colour, Synthetic rubber to withstand high temperature blower air

Reinforcement Plies of synthetic textile cords

Cover Black colour, Synthetic rubber resistant to ozone, weather and abrasion

Application For Hot dry oilness air feeding to bunker trucks for discharge of bulk material like Dry Cement, Fly Ash, Quarry Dust, Sand, etc., in construction industry



| Item Code | Dash Size | ID | | OD | | WP | | BP | | W kg/m |
|-----------|-----------|------|-------|------|-------|-----|-----|-----|-----|-----------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | |
| PH625-32 | -32 | 2 | 51.0 | 2.56 | 65.0 | 150 | 10 | 435 | 30 | 1.60 |
| PH625-48 | -48 | 3 | 76.0 | 3.62 | 92.0 | 150 | 10 | 435 | 30 | 2.80 |
| PH625-64 | -64 | 4 | 102.0 | 4.65 | 118.0 | 150 | 10 | 435 | 30 | 3.60 |

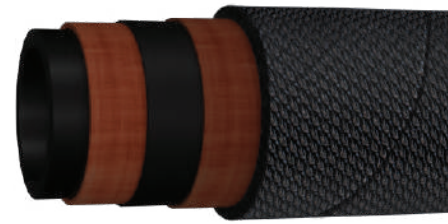


Temperature Range: Continuous: -30°C to +180°C

PH626 - DRY CEMENT DELIVERY / SILO HOSE

Construction

- Inner tube** Black colour, Synthetic and natural rubber blend resistant to abrasion
- Reinforcement** Plies of synthetic textile cords with two cross anti static copper wires
- Cover** Black colour, Synthetic rubber resistant to ozone, weather and abrasion
- Application** For transfer of Dry Cement, Sand, Crusher Dust from Silo/ Tanker



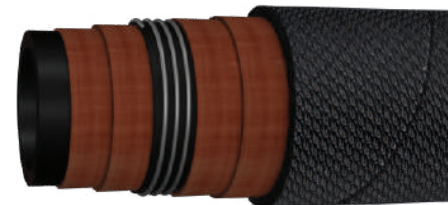
| Item Code | Dash Size | ID | | OD | | WP | | BP | | W kg/m |
|-----------|-----------|-------|-------|------|-------|-----|-----|-----|-----|-----------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | |
| PH626-16 | -16 | 1 | 25.0 | 1.46 | 37.0 | 150 | 10 | 450 | 30 | 0.83 |
| PH626-20 | -20 | 1.1/4 | 32.0 | 1.73 | 44.0 | 150 | 10 | 450 | 30 | 1.01 |
| PH626-24 | -24 | 1.1/2 | 38.0 | 1.97 | 50.0 | 150 | 10 | 450 | 30 | 1.30 |
| PH626-32 | -32 | 2 | 51.0 | 2.56 | 65.0 | 150 | 10 | 450 | 30 | 1.70 |
| PH626-40 | -40 | 2.1/2 | 64.0 | 3.07 | 78.0 | 150 | 10 | 450 | 30 | 2.10 |
| PH626-48 | -48 | 3 | 76.0 | 3.54 | 90.0 | 150 | 10 | 450 | 30 | 2.70 |
| PH626-64 | -64 | 4 | 102.0 | 4.65 | 118.0 | 150 | 10 | 450 | 30 | 4.40 |
| PH626-80 | -80 | 5 | 127.0 | 5.79 | 147.0 | 150 | 10 | 450 | 30 | 5.70 |
| PH626-96 | -96 | 6 | 152.0 | 6.77 | 172.0 | 150 | 10 | 450 | 30 | 7.00 |
| PH626-128 | -128 | 8 | 203.0 | 8.94 | 227.0 | 150 | 10 | 450 | 30 | 9.00 |

 **Temperature Range:** Continuous: -30°C to +70°C

PH628 - ABRASIVE BULK MATERIAL SUCTION AND DISCHARGE HOSE W.P 20 BAR

Construction

- Inner tube** Black colour, Synthetic and natural rubber blend resistant to abrasion
- Reinforcement** Plies of synthetic textile cords with steel helix and two cross antistatic copper wires
- Cover** Black colour, Synthetic rubber resistant to ozone, weather and abrasion
- Application** For suction and discharge of bulk material Dry Cement, Gravel, Sand in Construction Industry



| Item Code | Dash Size | ID | | OD | | WP | | BP | | V bar | W kg/m |
|-----------|-----------|-------|-------|------|-------|-----|-----|-----|-----|----------|-----------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | | |
| PH628-16 | -16 | 1 | 25.0 | 1.57 | 40.0 | 300 | 20 | 870 | 60 | 0.9 | 1.20 |
| PH628-20 | -20 | 1.1/4 | 32.0 | 1.81 | 46.0 | 300 | 20 | 870 | 60 | 0.9 | 1.60 |
| PH628-24 | -24 | 1.1/2 | 38.0 | 2.13 | 54.0 | 300 | 20 | 870 | 60 | 0.9 | 2.00 |
| PH628-32 | -32 | 2 | 51.0 | 2.64 | 67.0 | 300 | 20 | 870 | 60 | 0.9 | 2.40 |
| PH628-40 | -40 | 2.1/2 | 64.0 | 3.11 | 79.0 | 300 | 20 | 870 | 60 | 0.9 | 2.80 |
| PH628-48 | -48 | 3 | 76.0 | 3.82 | 97.0 | 300 | 20 | 870 | 60 | 0.9 | 3.80 |
| PH628-64 | -64 | 4 | 102.0 | 4.88 | 124.0 | 300 | 20 | 870 | 60 | 0.9 | 5.80 |
| PH628-80 | -80 | 5 | 127.0 | 5.83 | 148.0 | 300 | 20 | 870 | 60 | 0.9 | 7.40 |
| PH628-96 | -96 | 6 | 152.0 | 6.85 | 174.0 | 300 | 20 | 870 | 60 | 0.9 | 9.20 |

 **Temperature Range:** Continuous: -30°C to +70°C

PH629 - ABRASIVE BULK MATERIAL DISCHARGE HOSE W.P 10 BAR



Construction

- Inner tube** Black colour, Synthetic and natural rubber blend resistant to abrasion
- Reinforcement** Plies of synthetic textile cords with two cross anti static copper wires
- Cover** Black colour, Synthetic rubber resistant to ozone, weather and abrasion
- Application** For discharge of bulk material dry cement, gravel, sand ect., in construction industry

2

| Item Code | Dash Size | ID | | OD | | WP | | BP | | W kg/m |
|-----------|-----------|-------|-------|------|-------|-----|-----|-----|-----|-----------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | |
| PH629-32 | -32 | 2 | 51.0 | 2.52 | 64.0 | 150 | 10 | 435 | 30 | 1.71 |
| PH629-40 | -40 | 2.1/2 | 64.0 | 2.99 | 76.0 | 150 | 10 | 435 | 30 | 2.10 |
| PH629-48 | -48 | 3 | 76.0 | 3.62 | 92.0 | 150 | 10 | 435 | 30 | 2.60 |
| PH629-64 | -64 | 4 | 102.0 | 4.65 | 118.0 | 150 | 10 | 435 | 30 | 4.40 |
| PH629-80 | -80 | 5 | 127.0 | 5.63 | 143.0 | 150 | 10 | 435 | 30 | 5.60 |
| PH629-96 | -96 | 6 | 152.0 | 6.69 | 170.0 | 150 | 10 | 435 | 30 | 7.00 |
| PH629-128 | -128 | 8 | 203.0 | 8.94 | 227.0 | 150 | 10 | 435 | 30 | 9.80 |



Temperature Range: Continuous: -30°C to +75°C

PH630 - AIR & WATER DISCHARGE HOSE - 20 BAR



Construction

- Inner tube** Black colour, Synthetic rubber resistant to water
- Reinforcement** Plies of synthetic textile cords
- Cover** Black colour, Synthetic rubber, wrapped type, abrasion water resistant
- Application** Hose designed for air, water & stone dust delivery in underground mines

| Item Code | Dash Size | ID | | OD | | WP | | BP | | W kg/m |
|-----------|-----------|-------|-------|------|-------|-----|-----|-----|-----|-----------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | |
| PH630-16 | -16 | 1 | 25.0 | 1.34 | 34.0 | 300 | 20 | 900 | 60 | 0.67 |
| PH630-20 | -20 | 1.1/4 | 32.0 | 1.65 | 42.0 | 300 | 20 | 900 | 60 | 0.80 |
| PH630-24 | -24 | 1.1/2 | 38.0 | 1.89 | 48.0 | 300 | 20 | 900 | 60 | 0.94 |
| PH630-32 | -32 | 2 | 51.0 | 2.44 | 62.0 | 300 | 20 | 900 | 60 | 2.20 |
| PH630-40 | -40 | 2.1/2 | 63.0 | 2.99 | 76.0 | 300 | 20 | 900 | 60 | 2.60 |
| PH630-48 | -48 | 3 | 76.0 | 3.50 | 89.0 | 300 | 20 | 900 | 60 | 3.10 |
| PH630-56 | -56 | 3.1/2 | 89.0 | 4.06 | 103.0 | 300 | 20 | 900 | 60 | 3.70 |
| PH630-64 | -64 | 4 | 102.0 | 4.57 | 116.0 | 300 | 20 | 900 | 60 | 4.12 |
| PH630-80 | -80 | 5 | 127.0 | 5.59 | 142.0 | 300 | 20 | 900 | 60 | 4.90 |
| PH630-96 | -96 | 6 | 152.0 | 6.57 | 167.0 | 300 | 20 | 900 | 60 | 6.70 |
| PH630-128 | -128 | 8 | 203.0 | 8.62 | 219.0 | 300 | 20 | 900 | 60 | 8.20 |

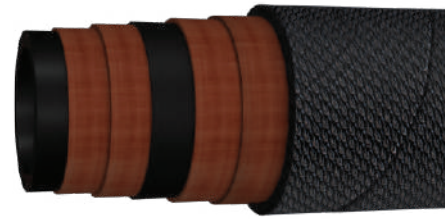


Temperature Range: Continuous: -25°C to +70°C

PH631- INDUSTRIAL DUTY AIR HOSE W.P. 20 BAR

Construction

- Inner tube** Black colour, Synthetic rubber resistant to high temperature and oil mist
- Reinforcement** Plies of synthetic textile cords
- Cover** Black colour, Synthetic rubber resistant to ozone, weather and abrasion
- Application** For conveying air from compressors and blowers



| Item Code | Dash Size | ID | | OD | | WP | | BP | | W kg/m |
|-----------|-----------|-------|-------|------|-------|-----|-----|-----|-----|-----------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | |
| PH631-16 | -16 | 1 | 25.0 | 1.42 | 36.0 | 300 | 20 | 870 | 60 | 0.72 |
| PH631-24 | -24 | 1.1/2 | 38.0 | 2.01 | 51.0 | 300 | 20 | 870 | 60 | 1.85 |
| PH631-32 | -32 | 2 | 51.0 | 2.56 | 65.0 | 300 | 20 | 870 | 60 | 2.00 |
| PH631-40 | -40 | 2.1/2 | 64.0 | 3.15 | 80.0 | 300 | 20 | 870 | 60 | 2.58 |
| PH631-48 | -48 | 3 | 76.0 | 3.62 | 92.0 | 300 | 20 | 870 | 60 | 3.20 |
| PH631-64 | -64 | 4 | 102.0 | 4.72 | 120.0 | 300 | 20 | 870 | 60 | 4.50 |

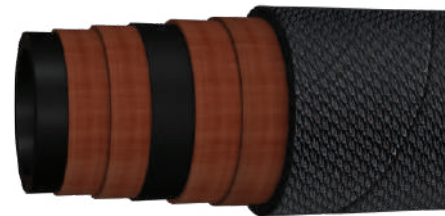


Temperature Range: Continuous: -20°C to +85°C

PH639 - BULK MATERIAL DISCHARGE - 20 BAR

Construction

- Inner tube** Black colour, Synthetic and natural rubber blend resistant to abrasion
- Reinforcement** Plies of synthetic textile cords
- Cover** Black colour, Synthetic Rubber resistant to Ozone, weather and abrasion
- Application** For Discharge of bulk material dry cement, gravel, sand ect in construction industry

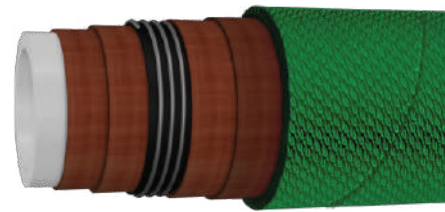


| Item Code | Dash Size | ID | | OD | | WP | | BP | | W kg/m |
|-----------|-----------|-------|-------|------|-------|-----|-----|-----|-----|-----------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | |
| PH639-32 | -32 | 2 | 51.0 | 2.64 | 67.0 | 300 | 20 | 870 | 60 | 1.70 |
| PH639-40 | -40 | 2.1/2 | 64.0 | 3.11 | 79.0 | 300 | 20 | 870 | 60 | 2.10 |
| PH639-48 | -48 | 3 | 76.0 | 3.70 | 94.0 | 300 | 20 | 870 | 60 | 2.60 |
| PH639-64 | -64 | 4 | 102.0 | 4.80 | 122.0 | 300 | 20 | 870 | 60 | 4.40 |
| PH639-80 | -80 | 5 | 127.0 | 5.75 | 146.0 | 300 | 20 | 870 | 60 | 5.70 |
| PH639-96 | -96 | 6 | 152.0 | 6.77 | 172.0 | 300 | 20 | 870 | 60 | 7.00 |
| PH639-128 | -128 | 8 | 203.0 | 9.05 | 230.0 | 300 | 20 | 870 | 60 | 9.00 |



Temperature Range: Continuous: -30°C to +70°C

PH642 - XLPE CHEMICAL SUCTION AND DISCHARGE HOSE W.P. 17 BAR



Construction

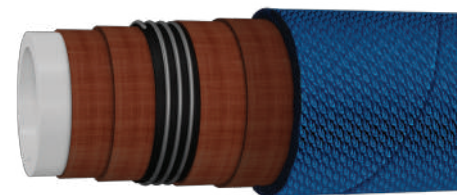
- Inner tube** White colour, Synthetic rubber with XLPE liner
- Reinforcement** Plies of synthetic textile cords with steel helix and two cross anti static copper wires
- Cover** Green colour EPDM, wrapped type, abrasion and weather resistant
- Application** Excellent in handling petroleum based products, hydrocarbon solvents, oxidising chemicals, major strong acid and alkali as well as organic fluid etc.,

2

| Item Code | Dash Size | ID | | OD | | WP | | BP | | V | W |
|-----------|-----------|-------|-------|------|-------|-----|-----|-----|-----|-----|------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | | |
| PH 642-12 | -12 | 3/4 | 19.0 | 1.18 | 30.0 | 250 | 17 | 750 | 51 | 0.9 | 0.80 |
| PH 642-16 | -16 | 1 | 25.0 | 1.38 | 35.0 | 250 | 17 | 750 | 51 | 0.9 | 1.39 |
| PH 642-20 | -20 | 1.1/4 | 32.0 | 1.73 | 44.0 | 250 | 17 | 750 | 51 | 0.9 | 1.52 |
| PH 642-24 | -24 | 1.1/2 | 38.0 | 1.97 | 50.0 | 250 | 17 | 750 | 51 | 0.9 | 2.00 |
| PH 642-32 | -32 | 2 | 51.0 | 2.64 | 67.0 | 250 | 17 | 750 | 51 | 0.9 | 2.70 |
| PH 642-40 | -40 | 2.1/2 | 63.0 | 3.11 | 79.0 | 250 | 17 | 750 | 51 | 0.9 | 3.20 |
| PH 642-48 | -48 | 3 | 76.0 | 3.70 | 94.0 | 250 | 17 | 750 | 51 | 0.9 | 4.50 |
| PH 642-64 | -64 | 4 | 102.0 | 4.72 | 120.0 | 250 | 17 | 750 | 51 | 0.9 | 4.80 |

 **Temperature Range:** Continuous: -20°C to +120°C

PH645 - UHMPE CHEMICAL SUCTION & DISCHARGE HOSE



Construction

- Inner tube** White colour, Synthetic rubber with transparent UHMPE liner FDA approved
- Reinforcement** Plies of synthetic textile cords with steel helix
- Cover** Blue colour EPDM rubber resistant to ozone, weather and abrasion
- Application** Conveying acids and chemical with corrugated finish

| Item Code | Dash Size | ID | | OD | | WP | | BP | | V | W |
|-----------|-----------|-------|-------|------|------|-----|-----|-----|-----|-----|------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | | |
| PH 645-12 | -12 | 3/4 | 19.0 | 1.22 | 31.0 | 250 | 17 | 750 | 51 | 0.9 | 0.70 |
| PH 645-16 | -16 | 1 | 25.0 | 1.46 | 37.0 | 250 | 17 | 750 | 51 | 0.9 | 1.29 |
| PH 645-20 | -20 | 1.1/4 | 32.0 | 1.73 | 44.0 | 250 | 17 | 750 | 51 | 0.9 | 1.49 |
| PH 645-24 | -24 | 1.1/2 | 38.0 | 1.97 | 50.0 | 250 | 17 | 750 | 51 | 0.9 | 1.90 |
| PH 645-32 | -32 | 2 | 51.0 | 2.48 | 63.0 | 250 | 17 | 750 | 51 | 0.9 | 2.50 |
| PH 645-40 | -40 | 2.1/2 | 63.0 | 3.07 | 78.0 | 250 | 17 | 750 | 51 | 0.9 | 3.20 |
| PH 645-48 | -48 | 3 | 76.0 | 3.70 | 94.0 | 250 | 17 | 750 | 51 | 0.9 | 4.30 |
| PH 645-64 | -64 | 4 | 102.0 | 4.72 | 120 | 250 | 17 | 750 | 51 | 0.9 | 4.80 |

 **Temperature Range:** Continuous: -20°C to +120°C

PH646 - EPDM CHEMICAL SUCTION & DISCHARGE HOSE



Construction

- Inner tube** Black colour, EPDM synthetic rubber resistant to wide range of industrial chemicals
- Reinforcement** Plies of synthetic textile cords with steel helix and two cross anti static copper wires
- Cover** Black colour, Synthetic rubber resistant to ozone, weather and abrasion
- Application** For conveying wide range of light chemicals

| Item Code | Dash Size | ID | | OD | | WP | | BP | | W kg/m |
|-----------|-----------|-------|-------|------|-------|-----|-----|-----|-----|-----------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | |
| PH 646-08 | -08 | 1/2 | 12.7 | 0.97 | 24.7 | 250 | 17 | 750 | 51 | 0.56 |
| PH 646-12 | -12 | 3/4 | 19.0 | 1.22 | 31.0 | 250 | 17 | 750 | 51 | 0.68 |
| PH 646-16 | -16 | 1 | 25.0 | 1.46 | 37.0 | 250 | 17 | 750 | 51 | 0.80 |
| PH 646-20 | -20 | 1.1/4 | 32.0 | 1.73 | 44.0 | 250 | 17 | 750 | 51 | 0.99 |
| PH 646-24 | -24 | 1.1/2 | 38.0 | 2.05 | 52.0 | 250 | 17 | 750 | 51 | 1.50 |
| PH 646-32 | -32 | 2 | 51.0 | 2.64 | 67.0 | 250 | 17 | 750 | 51 | 2.04 |
| PH 646-40 | -40 | 2.1/2 | 64.0 | 3.15 | 80.0 | 250 | 17 | 750 | 51 | 2.70 |
| PH 646-48 | -48 | 3 | 76.0 | 3.62 | 92.0 | 250 | 17 | 750 | 51 | 3.12 |
| PH 646-64 | -64 | 4 | 102.0 | 4.65 | 118.0 | 250 | 17 | 750 | 51 | 4.60 |



Temperature Range: Continuous: -30°C to +120°C

PH647 - SLURRY & MUD WATER SUCTION AND DISCHARGE HOSE



Construction

- Inner tube** Black colour, Synthetic and natural rubber blend resistant to abrasion
- Reinforcement** Plies of synthetic textile cords with steel helix and two cross anti static copper wires
- Cover** Black colour, Synthetic rubber resistant to ozone, weather and abrasion
- Application** For suction and discharge of slurry, mud and waste water

| Item Code | Dash Size | ID | | OD | | WP | | BP | | W kg/m |
|------------|-----------|------|-------|------|-------|-----|-----|-----|-----|-----------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | |
| PH 647-32 | -32 | 2 | 51.0 | 2.64 | 67.0 | 150 | 10 | 450 | 30 | 2.80 |
| PH 647-48 | -48 | 3 | 76.0 | 3.66 | 93.0 | 150 | 10 | 450 | 30 | 4.70 |
| PH 647-64 | -64 | 4 | 102.0 | 4.80 | 122.0 | 150 | 10 | 450 | 30 | 5.40 |
| PH 647-80 | -80 | 5 | 127.0 | 5.79 | 147.0 | 150 | 10 | 450 | 30 | 6.20 |
| PH 647-96 | -96 | 6 | 152.0 | 6.85 | 174.0 | 150 | 10 | 450 | 30 | 12.60 |
| PH 647-128 | -128 | 8 | 203.0 | 9.33 | 237.0 | 150 | 10 | 450 | 30 | 19.70 |

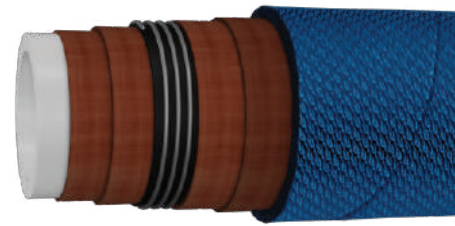


Temperature Range: Continuous: -30°C to +70°C

PH648 - UHMWPE SUCTION & DISCHARGE HOSE FOOD

Construction

- Inner tube** White colour, Synthetic rubber with transparent UHMPE liner
- Reinforcement** Plies of synthetic textile cords with steel helix
- Cover** Blue colour EPDM rubber resistant to ozone, weather and abrasion
- Application** For conveying food product & potable water



2

| Item Code | Dash Size | ID | | OD | | WP | | BP | | V | W |
|-----------|-----------|-------|-------|------|-------|-----|-----|-----|-----|-----|------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | bar | kg/m |
| PH 648-12 | -12 | 3/4 | 19.0 | 1.22 | 31.0 | 250 | 17 | 750 | 51 | 0.9 | 0.70 |
| PH 648-16 | -16 | 1 | 25.0 | 1.46 | 37.0 | 250 | 17 | 750 | 51 | 0.9 | 1.29 |
| PH 648-20 | -20 | 1.1/4 | 32.0 | 1.73 | 44.0 | 250 | 17 | 750 | 51 | 0.9 | 1.49 |
| PH 648-24 | -24 | 1.1/2 | 38.0 | 1.97 | 50.0 | 250 | 17 | 750 | 51 | 0.9 | 1.90 |
| PH 648-32 | -32 | 2 | 51.0 | 2.48 | 63.0 | 250 | 17 | 750 | 51 | 0.9 | 2.50 |
| PH 648-40 | -40 | 2.1/2 | 63.0 | 3.07 | 78.0 | 250 | 17 | 750 | 51 | 0.9 | 3.20 |
| PH 648-48 | -48 | 3 | 76.0 | 3.62 | 92.0 | 250 | 17 | 750 | 51 | 0.9 | 4.30 |
| PH 648-64 | -64 | 4 | 102.0 | 4.65 | 118.0 | 250 | 17 | 750 | 51 | 0.9 | 4.80 |

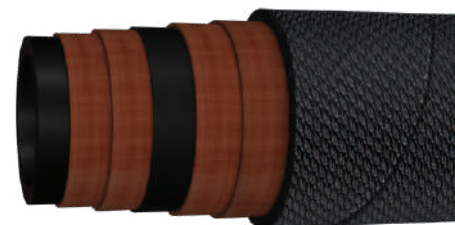


Temperature Range: Continuous: -30°C to +120°C

PH649 - CONCRETE DELIVERY HOSE

Construction

- Inner tube** Black colour, Synthetic and natural rubber blend resistant to abrasion
- Reinforcement** Plies of synthetic textile cords with two cross anti static copper wires
- Cover** Black colour, Synthetic rubber resistant to ozone, weather and abrasion
- Application** Designed for concrete pumping in construction industry



| Item Code | Dash Size | ID | | OD | | WP | | BP | | W |
|-----------|-----------|-------|-------|------|-------|------|-----|------|-----|------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | kg/m |
| PH 649-20 | -20 | 1.1/4 | 32.0 | 1.93 | 49.0 | 1235 | 85 | 2465 | 170 | 1.60 |
| PH 649-24 | -24 | 1.1/2 | 38.0 | 2.20 | 56.0 | 1235 | 85 | 2465 | 170 | 1.80 |
| PH 649-32 | -32 | 2 | 51.0 | 2.80 | 71.0 | 1235 | 85 | 2465 | 170 | 3.00 |
| PH 649-40 | -40 | 2.1/2 | 64.0 | 3.43 | 87.0 | 1235 | 85 | 2465 | 170 | 3.77 |
| PH 649-48 | -48 | 3 | 76.0 | 4.02 | 102.0 | 1235 | 85 | 2465 | 170 | 4.90 |
| PH 649-56 | -56 | 3.1/2 | 88.0 | 4.53 | 115.0 | 1235 | 85 | 2465 | 170 | 5.66 |
| PH 649-64 | -64 | 4 | 102.0 | 5.20 | 132.0 | 1235 | 85 | 2465 | 170 | 7.36 |
| PH 649-80 | -80 | 5 | 127.0 | 6.18 | 157.0 | 1235 | 85 | 2465 | 170 | 8.92 |



Temperature Range: Continuous: -30°C to +70°C

PH651 - RADIATOR HOSE

Construction

Inner tube Black Colour, EPDM rubber resistant to wide range of Industrial Chemicals

Reinforcement Plies of synthetic textile cords

Cover Black colour, EPDM Rubber resistant to Ozone, weather and abrasion

Application For conveying hot water mixed with anti- freeze liquids in cooling systems



| Item Code | Dash Size | ID | | OD | | WP | | BP | | W |
|-----------|-----------|-------|-------|------|-------|-----|-----|-----|-----|------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | kg/m |
| PH 651-08 | -08 | 1/2 | 12.7 | 0.83 | 21.0 | 45 | 3 | 135 | 9 | 0.30 |
| PH 651-12 | -12 | 3/4 | 19.0 | 1.10 | 28.0 | 45 | 3 | 135 | 9 | 0.45 |
| PH 651-16 | -16 | 1 | 25.0 | 1.34 | 34.0 | 45 | 3 | 135 | 9 | 0.50 |
| PH 651-20 | -20 | 1.1/4 | 32.0 | 1.65 | 42.0 | 45 | 3 | 135 | 9 | 0.60 |
| PH 651-24 | -24 | 1.1/2 | 38.0 | 1.89 | 48.0 | 45 | 3 | 135 | 9 | 0.80 |
| PH 651-32 | -32 | 2 | 51.0 | 2.44 | 62.0 | 45 | 3 | 135 | 9 | 1.20 |
| PH 651-40 | -40 | 2.1/2 | 64.0 | 2.99 | 76.0 | 45 | 3 | 135 | 9 | 1.40 |
| PH 651-48 | -48 | 3 | 76.0 | 3.50 | 89.0 | 45 | 3 | 135 | 9 | 1.65 |
| PH 651-64 | -64 | 4 | 102.0 | 4.57 | 116.0 | 45 | 3 | 135 | 9 | 2.60 |
| PH 651-80 | -80 | 5 | 127.0 | 5.59 | 142.0 | 45 | 3 | 135 | 9 | 4.60 |
| PH 651-96 | -96 | 6 | 152.0 | 6.57 | 167.0 | 45 | 3 | 135 | 9 | 6.80 |

 **Temperature Range:** Continuous: -40°C to +120°C

PH657 - OIL FUEL DELIVERY HOSE FRAS - 20 BAR

Construction

Inner tube Black colour, Conductive Synthetic Rubber resistant to oil

Reinforcement Piles of synthetic textile cords

Cover Black colour, Conductive Synthetic rubber resistant to weather and abrasion

Application Mandrel built heavy duty oil delivery hose for handling a wide range of gasoline or petroleum oils of aromatic content up to 50% from tank truck, in dispensing station, refineries, etc.



| Item Code | Dash Size | ID | | OD | | WP | | BP | | W |
|-----------|-----------|-------|-------|------|-------|-----|-----|-----|-----|------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | kg/m |
| PH657-12 | -12 | 3/4 | 19.0 | 1.22 | 31.0 | 300 | 20 | 870 | 60 | 0.68 |
| PH657-16 | -16 | 1 | 25.0 | 1.46 | 37.0 | 300 | 20 | 870 | 60 | 0.81 |
| PH657-20 | -20 | 1.1/4 | 32.0 | 1.73 | 44.0 | 300 | 20 | 870 | 60 | 1.22 |
| PH657-24 | -24 | 1.1/2 | 38.0 | 2.01 | 51.0 | 300 | 20 | 870 | 60 | 1.35 |
| PH657-32 | -32 | 2 | 51.0 | 2.60 | 66.0 | 300 | 20 | 870 | 60 | 2.04 |
| PH657-40 | -40 | 2.1/2 | 63.0 | 3.11 | 79.0 | 300 | 20 | 870 | 60 | 2.65 |
| PH657-48 | -48 | 3 | 76.0 | 3.58 | 91.0 | 300 | 20 | 870 | 60 | 3.08 |
| PH657-56 | -56 | 3.1/2 | 89.0 | 4.17 | 106.0 | 300 | 20 | 870 | 60 | 3.60 |
| PH657-64 | -64 | 4 | 102.0 | 4.72 | 120.0 | 300 | 20 | 870 | 60 | 4.87 |
| PH657-80 | -80 | 5 | 127.0 | 5.75 | 146.0 | 300 | 20 | 870 | 60 | 5.60 |
| PH657-96 | -96 | 6 | 152.0 | 6.69 | 170.0 | 300 | 20 | 870 | 60 | 7.00 |

 **Temperature Range:** Continuous: -20°C to +80°C

PH661 - MINE BLAST HANDLING HOSE - W.P. 20 BAR



Construction

- Inner tube** Black colour, Conductive synthetic rubber abrasion resistance
- Reinforcement** Plies of synthetic textile cords with steel helix
- Cover** Black colour, Conductive Synthetic rubber resistant to abrasion, Ozone and fire resistance
- Application** Mandrel built heavy duty Suction & Discharge hose for handling explosive materials in Mining applications

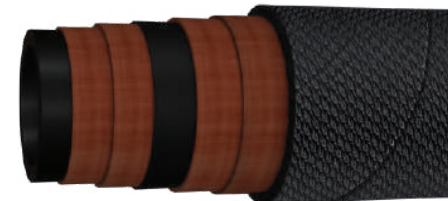
2

| Item Code | Dash Size | ID | | OD | | WP | | BP | | V | W |
|-----------|-----------|-------|------|------|------|-----|-----|-----|-----|-----|------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | bar | kg/m |
| PH661-32 | -32 | 2 | 51.0 | 2.79 | 71.0 | 300 | 20 | 900 | 60 | 0.9 | 2.50 |
| PH661-40 | -40 | 2.1/2 | 63.0 | 3.27 | 83.0 | 300 | 20 | 900 | 60 | 0.9 | 3.00 |



Temperature Range: Continuous: -30°C to +80°C

PH663 - AIR & WATER DISCHARGE HOSE FRAS - 20 BAR



Construction

- Inner tube** Black colour, Conductive synthetic rubber resistant to air and water
- Reinforcement** Piles of synthetic textile cords
- Cover** Black colour, Conductive Synthetic rubber resistant to air and water
- Application** Hose designed for Air, water & stone dust delivery in underground mines

| Item Code | Dash Size | ID | | OD | | WP | | BP | | W |
|-----------|-----------|-------|-------|------|-------|-----|-----|-----|-----|------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | kg/m |
| PH663-16 | -16 | 1 | 25.0 | 1.34 | 34.0 | 300 | 20 | 900 | 60 | 0.53 |
| PH663-20 | -20 | 1.1/4 | 32.0 | 1.65 | 42.0 | 300 | 20 | 900 | 60 | 0.84 |
| PH663-24 | -24 | 1.1/2 | 38.0 | 1.89 | 48.0 | 300 | 20 | 900 | 60 | 0.98 |
| PH663-32 | -32 | 2 | 51.0 | 2.44 | 62.0 | 300 | 20 | 900 | 60 | 1.10 |
| PH663-40 | -40 | 2.1/2 | 63.0 | 2.99 | 76.0 | 300 | 20 | 900 | 60 | 1.50 |
| PH663-48 | -48 | 3 | 76.0 | 3.50 | 89.0 | 300 | 20 | 900 | 60 | 1.72 |
| PH663-56 | -56 | 3.1/2 | 89.0 | 4.06 | 103.0 | 300 | 20 | 900 | 60 | 2.10 |
| PH663-64 | -64 | 4 | 102.0 | 4.57 | 116.0 | 300 | 20 | 900 | 60 | 2.40 |
| PH663-80 | -80 | 5 | 127.0 | 5.59 | 142.0 | 300 | 20 | 900 | 60 | 3.00 |
| PH663-96 | -96 | 6 | 152.0 | 6.57 | 167.0 | 300 | 20 | 900 | 60 | 5.00 |
| PH663-128 | 128 | 8 | 203.0 | 8.62 | 219.0 | 300 | 20 | 900 | 60 | 7.20 |



Temperature Range: Continuous: -20°C to +85°C

PH681 - SATURATED STEAM & HOT WATER HOSE



Construction

Inner tube Black colour, EPDM rubber resistant to saturated steam

Reinforcement Plies of synthetic textile cords

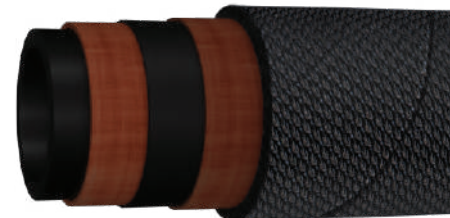
Cover Red colour, EPDM resistant to ozone and weather

Application Saturated steam and hot water delivery

| Item Code | Dash Size | ID | | OD | | WP | | BP | | W kg/m |
|-----------|-----------|-------|------|------|------|-----|-----|-----|-----|-----------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | |
| PH681-08 | -08 | 1/2 | 12.7 | 0.91 | 23.0 | 100 | 7 | 300 | 21 | 0.43 |
| PH681-12 | -12 | 3/4 | 19.0 | 1.22 | 31.0 | 100 | 7 | 300 | 21 | 0.60 |
| PH681-16 | -16 | 1 | 25.0 | 1.46 | 37.0 | 100 | 7 | 300 | 21 | 0.74 |
| PH681-20 | -20 | 1.1/4 | 32.0 | 1.81 | 46.0 | 100 | 7 | 300 | 21 | 1.10 |
| PH681-24 | -24 | 1.1/2 | 38.0 | 2.05 | 52.0 | 100 | 7 | 300 | 21 | 1.30 |
| PH681-32 | -32 | 2 | 51.0 | 2.64 | 67.0 | 100 | 7 | 300 | 21 | 1.80 |

 **Temperature Range:** Continuous: -40°C to +165°C

PH687 - GENERAL PURPOSE HOSE



Construction

Inner tube Black, Nitrile

Reinforcement Plies of synthetic textile cords

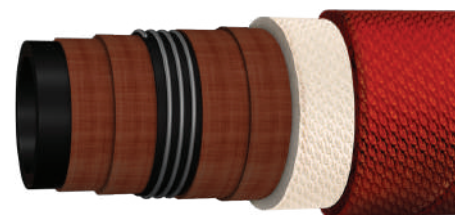
Cover Black colour EPDM rubber resistant to ozone, weather. Available in Blue, Yellow, Green colour on request

Application Low pressure multipurpose hose specially designed to deliver fuel, water, air and nitrogen

| Item Code | Dash Size | ID | | OD | | WP | | BP | | W kg/m |
|-----------|-----------|------|------|------|------|-----|-----|-----|-----|-----------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | |
| PH687-12 | -12 | 3/4" | 19.0 | 1.14 | 29.0 | 300 | 20 | 900 | 60 | 0.70 |
| PH687-16 | -16 | 1" | 25.4 | 1.42 | 36.0 | 300 | 20 | 900 | 60 | 1.10 |

 **Temperature Range:** -30°C to +100°C

PH693 - FIRE SHIELD HOSE



Construction

Inner tube Black colour, Synthetic rubber resistant to oil and water

Reinforcement Plies of synthetic cords with steel helix

Cover Red Colour synthetic rubber with fire resistant layer, abrasion, oil, weather, heat & ozone

Application Fire Shield hose is used as flame preventer in the Hydraulic Control System with Operating Pressure 305 PSI. It meets fire test as per API 16D spec for 5 minutes at 700°C (tested for more than 10 minutes at 800°C), operated under emergencies

| Item Code | Dash Size | ID | | OD | | WP | | BP | | BR/r | | W kg/m |
|-----------|-----------|------|--------|------|--------|-----|-----|------|-----|-------|------|-----------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | |
| PH693-32 | -32 | 2" | 50.80 | 3.11 | 79.00 | 305 | 21 | 1500 | 104 | 15.75 | 400 | 4.47 |
| PH693-48 | -48 | 3" | 76.00 | 4.21 | 107.00 | 305 | 21 | 1500 | 104 | 19.69 | 500 | 6.83 |
| PH693-64 | -64 | 4" | 102.00 | 5.28 | 134.00 | 305 | 21 | 1500 | 104 | 23.62 | 600 | 9.16 |
| PH693-96 | -96 | 6" | 152.00 | 7.24 | 184.00 | 305 | 21 | 1500 | 104 | 44.88 | 1140 | 13.75 |

 **Temperature Range:** Continuous: -40°C to +121°C

PH148 - MEDIUM PRESSURE HYDRAULIC HOSE - R7

Applicable Standard: SAE 100 R7 / DIN EN ISO 3949



Construction

- Inner tube** Thermoplastic Elastomer
- Reinforcement** Single Braid of Synthetic Fiber
- Cover** Polyurethane, Black Colour, Pin pricked

Application Medium Pressure Hydraulic Lines 70 to 210 bar. Suitable for hydraulic application with increased resistance to abrasion for use with petroleum, synthetic or water based fluids in Hydraulic systems. Suitable for Agricultural machinery, Earthmoving, Articulating & Telescopic booms and Material handling equipment. Also suitable for industrial gases and other applications. Please consult manufacturer.

| Other options |
|--|
| PH151 : Electrical non conductive application, Orange colour cover |

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|-------|------|-------|------|-------|-----|--------|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH148-02 | -02 | 03 | 1/8 | 3.2 | 0.320 | 8.1 | 3,000 | 210 | 12,000 | 840 | 1.0 | 25 | 57.0 |
| PH148-03 | -03 | 05 | 3/16 | 4.8 | 0.405 | 10.3 | 3,000 | 210 | 12,000 | 840 | 1.0 | 25 | 80.0 |
| PH148-04 | -04 | 06 | 1/4 | 6.4 | 0.490 | 12.4 | 2,750 | 190 | 11,000 | 760 | 1.3 | 32 | 114.0 |
| PH148-05 | -05 | 08 | 5/16 | 8.0 | 0.560 | 14.2 | 2,500 | 175 | 10,000 | 700 | 1.8 | 45 | 142.0 |
| PH148-06 | -06 | 10 | 3/8 | 9.5 | 0.620 | 15.7 | 2,250 | 155 | 9,000 | 620 | 2.2 | 55 | 164.0 |
| PH148-08 | -08 | 12 | 1/2 | 12.7 | 0.760 | 19.3 | 2,050 | 140 | 8,200 | 560 | 3.0 | 77 | 229.0 |
| PH148-10 | -10 | 16 | 5/8 | 16.0 | 0.910 | 23.1 | 1,500 | 105 | 6,000 | 420 | 4.3 | 110 | 295.0 |
| PH148-12 | -12 | 20 | 3/4 | 19.0 | 1.040 | 26.4 | 1,300 | 90 | 5,200 | 360 | 5.5 | 140 | 356.0 |
| PH148-16 | -16 | 25 | 1 | 25.4 | 1.310 | 33.3 | 1,000 | 70 | 4,000 | 280 | 8.0 | 200 | 504.0 |
| PH148-20 | -20 | 32 | 1.1/4 | 31.8 | 1.654 | 42.0 | 1,000 | 70 | 4,000 | 280 | 12.0 | 300 | 737.0 |



Temperature Range: Continuous: -40°C to +100°C Temp. not to exceed +70°C for Air and Water based fluids

PH149 - HIGH PRESSURE HYDRAULIC HOSE - R8

Applicable Standard: SAE 100 R8 / DIN EN ISO 3949



Construction

- Inner tube** Thermoplastic Elastomer
- Reinforcement** One or more Braids of Aramid Fiber
- Cover** Polyurethane, Black Colour, Pin pricked

Application High Pressure Hydraulic Lines 100 to 420 bar compact, high pressure, light weight and low change in length. Suitable for hydraulic application with increased resistance to abrasion for use with petroleum, synthetic or water based fluids in Hydraulic systems. Suitable for Agricultural machinery, Earthmoving, Safety, Rescue and Material handling equipment. Also suitable for industrial gases and other applications. Please consult manufacturer

| Other options |
|--|
| PH152 : Electrical non conductive application, Orange colour cover |

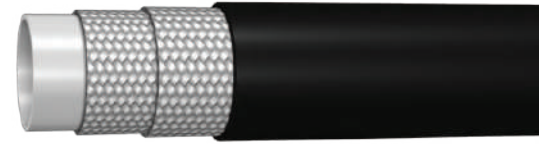
| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|-------|------|-------|------|-------|-----|--------|-------|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH149-02 | -02 | 03 | 1/8 | 3.2 | 0.320 | 8.1 | 6,000 | 420 | 24,000 | 1,680 | 1.0 | 25 | 57.0 |
| PH149-03 | -03 | 05 | 3/16 | 4.8 | 0.405 | 10.3 | 5,000 | 350 | 20,000 | 1,400 | 1.0 | 25 | 87.0 |
| PH149-04 | -04 | 06 | 1/4 | 6.4 | 0.490 | 12.4 | 5,000 | 350 | 20,000 | 1,400 | 1.3 | 32 | 118.0 |
| PH149-05 | -05 | 08 | 5/16 | 8.0 | 0.560 | 14.2 | 4,350 | 300 | 17,400 | 1,200 | 1.8 | 45 | 147.0 |
| PH149-06 | -06 | 10 | 3/8 | 9.5 | 0.620 | 15.7 | 4,000 | 280 | 16,000 | 1,120 | 2.2 | 55 | 170.0 |
| PH149-08 | -08 | 12 | 1/2 | 12.7 | 0.760 | 19.3 | 3,500 | 245 | 14,000 | 980 | 3.0 | 77 | 219.0 |
| PH149-10 | -10 | 16 | 5/8 | 16.0 | 0.910 | 23.1 | 2,900 | 200 | 11,600 | 800 | 4.3 | 110 | 295.0 |
| PH149-12 | -12 | 20 | 3/4 | 19.0 | 1.040 | 26.4 | 2,300 | 165 | 9,200 | 660 | 5.5 | 140 | 372.0 |
| PH149-16 | -16 | 25 | 1 | 25.4 | 1.310 | 33.3 | 2,000 | 140 | 8,000 | 560 | 8.0 | 200 | 511.0 |
| PH149-20 | -20 | 32 | 1.1/4 | 31.8 | 1.654 | 42.0 | 1,500 | 100 | 6,000 | 400 | 14.0 | 350 | 750.0 |



Temperature Range: Continuous: -40°C to +100°C Temp. not to exceed +70°C for Air and Water based fluids

PH194 -LOW TEMPERATURE - R18

Applicable Standard: Exceeds SAE 100 R18 / DIN EN ISO 3949



Construction

- Inner tube** Thermoplastic Elastomer
- Reinforcement** One or more Braids of Synthetic Fiber
- Cover** Special Polyester Elastomer, Black Colour, Pin pricked.

Application Constant Pressure Hydraulic Lines 210bar. Suitable for hydraulic application with low temperature requirements and abrasion resistance for use with petroleum, synthetic or water based fluids in hydraulic systems. Suitable for agricultural machinery, earthmoving, cold storage material handling equipment and systems. Also suitable for industrial gases and other applications. Please consult manufacturer

| Other options |
|--|
| PH195 : Electrical non conductive application, Orange colour cover |

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|-------|-----|--------|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH194-03 | -03 | 05 | 3/16 | 4.8 | 0.405 | 10.3 | 3,000 | 210 | 12,000 | 840 | 1.2 | 30 | 80.0 |
| PH194-04 | -04 | 06 | 1/4 | 6.4 | 0.490 | 12.4 | 3,000 | 210 | 12,000 | 840 | 1.8 | 45 | 120.0 |
| PH194-05 | -05 | 08 | 5/16 | 8.0 | 0.560 | 14.2 | 3,000 | 210 | 12,000 | 840 | 2.0 | 50 | 153.0 |
| PH194-06 | -06 | 10 | 3/8 | 9.5 | 0.650 | 16.6 | 3,000 | 210 | 12,000 | 840 | 3.0 | 75 | 188.0 |
| PH194-08 | -08 | 12 | 1/2 | 12.7 | 0.890 | 22.5 | 3,000 | 210 | 12,000 | 840 | 3.5 | 90 | 298.0 |
| PH194-10 | -10 | 16 | 5/8 | 16.0 | 1.060 | 25.4 | 3,000 | 210 | 12,000 | 840 | 4.7 | 120 | 370.0 |
| PH194-12 | -12 | 20 | 3/4 | 19.0 | 1.170 | 29.7 | 3,000 | 210 | 12,000 | 840 | 6.0 | 150 | 435.0 |
| PH194-16 | -16 | 25 | 1 | 25.4 | 1.560 | 39.6 | 3,000 | 210 | 12,000 | 840 | 10.0 | 250 | 600.0 |



Temperature Range: Continuous: -55°C to +100°C Temp. not to exceed +70°C for Air and Water based fluids

PH348 - MEDIUM PRESSURE HYDRAULIC HOSE - 1WB



Construction

- Inner tube** Thermoplastic Elastomer
- Reinforcement** Single Braid of Steel Wire
- Cover** Polyurethane, Black Colour, Pin pricked (Optional)

Application Medium Pressure Hydraulic Lines 100 to 350 bar. Suitable for hydraulic application with increased resistance to abrasion for use with petroleum, synthetic or water based fluids in Hydraulic systems. Suitable for Agricultural machinery, Earthmoving, Articulating & Telescopic booms and Material handling equipment. Also suitable for industrial gases and other applications. Please consult manufacturer. Compact Construction compared to conventional single steel wire braid rubber hoses

Note: Available Twin & Multi line with different Hose combination and size. Also special colours available on request

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|-------|-----|--------|-------|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH348-02 | -02 | 03 | 1/8 | 3.2 | 0.280 | 7.1 | 5,000 | 350 | 20,000 | 1,400 | 1.0 | 25 | 84.0 |
| PH348-03 | -03 | 05 | 3/16 | 4.8 | 0.380 | 9.7 | 5,000 | 350 | 17,400 | 1,200 | 1.2 | 30 | 141.0 |
| PH348-04 | -04 | 06 | 1/4 | 6.4 | 0.460 | 11.7 | 4,350 | 300 | 15,600 | 1,100 | 1.6 | 40 | 182.0 |
| PH348-05 | -05 | 08 | 5/16 | 8.0 | 0.535 | 13.6 | 3,500 | 240 | 14,000 | 960 | 2.0 | 50 | 222.0 |
| PH348-06 | -06 | 10 | 3/8 | 9.5 | 0.600 | 15.2 | 3,265 | 225 | 12,800 | 880 | 2.4 | 60 | 263.0 |
| PH348-08 | -08 | 12 | 1/2 | 12.7 | 0.725 | 18.4 | 2,750 | 190 | 10,000 | 700 | 3.0 | 75 | 350.0 |
| PH348-10 | -10 | 16 | 5/8 | 16.0 | 0.875 | 22.2 | 2,175 | 150 | 8,000 | 560 | 4.3 | 110 | 461.0 |
| PH348-12 | -12 | 20 | 3/4 | 19.0 | 1.020 | 25.9 | 1,890 | 130 | 6,400 | 460 | 6.0 | 150 | 550.0 |
| PH348-16 | -16 | 25 | 1 | 25.4 | 1.275 | 32.4 | 1,525 | 105 | 5,800 | 400 | 9.1 | 230 | 692.0 |



Temperature Range: Continuous: -40°C to +100°C Temp. not to exceed +70°C for Air and Water based fluids

PH349 - HIGH PRESSURE HYDRAULIC HOSE - 2WB



Construction

- Inner tube** Thermoplastic Elastomer
- Reinforcement** Double Braids of Steel Wire
- Cover** Polyurethane, Black Colour, Pin pricked (Optional)
- Application** High Pressure Hydraulic Lines 150 to 450 bar compact, high pressure, light weight and low change in length.

Suitable for hydraulic application with increased resistance to abrasion for use with petroleum, synthetic or water based fluids in Hydraulic systems, Agricultural machinery, Earthmoving, Safety, Rescue and Material handling equipment. Also suitable for industrial gases and other applications. Please consult manufacturer. Compact Construction compared to conventional double steel wire braid rubber hoses

Note: Available Twin & Multi line with different Hose combination and size. Also special colours available on request

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|-------|-----|--------|-------|------|-----|--------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH349-03 | -03 | 05 | 3/16 | 4.8 | 0.460 | 11.7 | 6,500 | 450 | 26,000 | 1,800 | 3.1 | 80 | 267.0 |
| PH349-04 | -04 | 06 | 1/4 | 6.4 | 0.540 | 13.7 | 6,250 | 430 | 25,000 | 1,720 | 4.0 | 100 | 318.0 |
| PH349-05 | -05 | 08 | 5/16 | 8.0 | 0.600 | 15.2 | 5,500 | 380 | 22,000 | 1,520 | 4.3 | 110 | 391.0 |
| PH349-06 | -06 | 10 | 3/8 | 9.5 | 0.690 | 17.5 | 4,800 | 330 | 19,200 | 1,320 | 5.0 | 127 | 473.0 |
| PH349-08 | -08 | 12 | 1/2 | 12.7 | 0.830 | 21.1 | 3,900 | 270 | 15,600 | 1,080 | 7.0 | 178 | 613.0 |
| PH349-10 | -10 | 16 | 5/8 | 16.0 | 0.975 | 24.8 | 3,625 | 250 | 12,000 | 840 | 8.0 | 203 | 818.0 |
| PH349-12 | -12 | 20 | 3/4 | 19.0 | 1.120 | 28.4 | 3,120 | 215 | 10,000 | 700 | 10.0 | 250 | 934.0 |
| PH349-16 | -16 | 25 | 1 | 25.4 | 1.360 | 34.5 | 2,400 | 165 | 8,800 | 600 | 12.0 | 305 | 1114.0 |



Temperature Range: Continuous: -40°C to +100°C Temp. not to exceed +70°C for Air and Water based fluids

3

PH353 - HIGH PRESSURE HYDRAULIC HOSE - R8 (2PB)

Applicable Standard: SAE 100 R8 / DIN EN ISO 3949



Construction

- Inner tube** Thermoplastic Elastomer
- Reinforcement** Double Braids of Synthetic Fiber
- Cover** Polyurethane, Black Colour, Pin pricked
- Application** High Pressure Hydraulic Lines 140 to 350 bar high pressure, light weight and low change in length. Suitable for hydraulic application with increased resistance to abrasion for use with petroleum, synthetic or water based fluids in Hydraulic systems, Agricultural machinery, Earthmoving, Safety, Rescue and Material handling equipment.

Also suitable for industrial gases and other applications. Please consult manufacturer.

| Other options |
|--|
| PH357 : Electrical non conductive application, Orange colour cover |

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|-------|-----|--------|-------|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH353-03 | -03 | 05 | 3/16 | 4.8 | 0.490 | 12.4 | 5,000 | 350 | 20,000 | 1,400 | 1.6 | 40 | 136.0 |
| PH353-04 | -04 | 06 | 1/4 | 6.4 | 0.635 | 16.1 | 5,000 | 350 | 20,000 | 1,400 | 1.8 | 45 | 220.0 |
| PH353-05 | -05 | 08 | 5/16 | 8.0 | 0.660 | 16.8 | 4,250 | 290 | 17,000 | 1,160 | 2.2 | 55 | 232.0 |
| PH353-06 | -06 | 10 | 3/8 | 9.5 | 0.730 | 18.5 | 4,000 | 280 | 16,000 | 1,120 | 2.6 | 65 | 260.0 |
| PH353-08 | -08 | 12 | 1/2 | 12.7 | 0.890 | 22.6 | 3,500 | 245 | 14,000 | 980 | 3.0 | 77 | 356.0 |
| PH353-10 | -10 | 16 | 5/8 | 16.0 | 1.020 | 25.9 | 2,750 | 190 | 11,000 | 760 | 4.0 | 100 | 405.0 |
| PH353-12 | -12 | 20 | 3/4 | 19.0 | 1.140 | 29.0 | 2,250 | 155 | 9,000 | 620 | 5.5 | 140 | 476.0 |
| PH353-16 | -16 | 25 | 1 | 25.4 | 1.420 | 36.1 | 2,000 | 140 | 8,000 | 560 | 8.0 | 200 | 637.0 |



Temperature Range: Continuous: -40°C to +100°C Temp. not to exceed +70°C for Air and Water based fluids

PH358 - R7 COMPACT HOSE

Construction

- Inner tube** Thermoplastic elastomer
- Reinforcement** One or more Braids of Synthetic Fiber
- Cover** Polyurethane, Black Colour, Pin pricked

Application Medium Pressure Hydraulic Lines 230 bar. Suitable for hydraulic application with increased resistance to abrasion for use with petroleum, synthetic or water based fluids in Hydraulic systems. Suitable for Agricultural machinery, Earthmoving, Articulating & Telescopic booms and Material handling equipment

Note: Available Twin & Multi line with different Hose combination and size. Also special colours available on request



| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|-------|-----|--------|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH358-03 | -03 | 05 | 3/16 | 4.8 | 0.394 | 10 | 3,335 | 230 | 11,600 | 800 | 45 | 1.8 | 88.0 |
| PH358-04 | -04 | 06 | 1/4 | 6.4 | 0.454 | 11.5 | 3,335 | 230 | 11,600 | 800 | 50 | 2.0 | 92.0 |
| PH358-05 | -05 | 08 | 5/16 | 8.0 | 0.560 | 14.2 | 3,335 | 230 | 11,600 | 800 | 60 | 2.4 | 135.0 |
| PH358-06 | -06 | 10 | 3/8 | 9.5 | 0.630 | 16.0 | 3,335 | 230 | 11,600 | 800 | 80 | 3.1 | 150 |
| PH358-08 | -08 | 12 | 1/2 | 12.7 | 0.855 | 21.7 | 2,900 | 200 | 11,600 | 800 | 100 | 3.9 | 280 |



Temperature Range: Continuous: -40°C to +100°C Temp. not to exceed +70°C for Air and Water based fluids

PH761 - HYBRID HOSE - 1W

Construction

- Inner tube** Thermoplastic Elastomer
- Reinforcement** Single Braid of Steel Wire
- Cover** Synthetic Rubber, Black Colour

Application Medium Pressure Hydraulic Lines 88 to 225 bar. For use with petroleum, synthetic or water based fluids in Hydraulic systems. Suitable for Agricultural machinery, Earthmoving, material handling equipment and machineries / systems



| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|-------|-----|--------|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH761-04 | -04 | 06 | 1/4 | 6.4 | 0.500 | 12.7 | 3,260 | 225 | 13,100 | 900 | 2.0 | 50 | 197.0 |
| PH761-06 | -06 | 10 | 3/8 | 9.5 | 0.660 | 16.8 | 2,610 | 180 | 10,500 | 720 | 2.5 | 64 | 281.0 |
| PH761-08 | -08 | 12 | 1/2 | 12.7 | 0.770 | 19.6 | 2,320 | 160 | 9,300 | 640 | 3.5 | 90 | 367.0 |
| PH761-12 | -12 | 20 | 3/4 | 19.0 | 1.050 | 26.7 | 1,520 | 105 | 6,100 | 420 | 5.0 | 125 | 579.0 |
| PH761-16 | -16 | 25 | 1 | 25.4 | 1.250 | 31.8 | 1,270 | 88 | 5,100 | 352 | 10.0 | 250 | 720.0 |



Temperature Range: Continuous: -40°C to +100°C Temp. not to exceed +70°C for Air and Water based fluids

PH762 - HYBRID HOSE - 2W

Construction

- Inner tube** Thermoplastic Elastomer
- Reinforcement** Two Braids of Steel Wire
- Cover** Synthetic Rubber, Black Colour

Application High Pressure Hydraulic Lines 165 to 400 bar. For use with petroleum, synthetic or water based fluids in Hydraulic systems. Suitable for Agricultural machinery, Earthmoving, material handling equipment and machineries / systems.

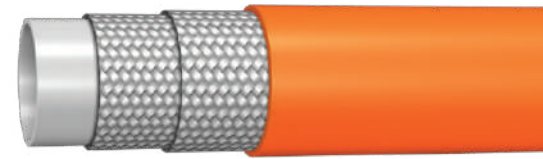


| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|-------|-----|--------|-------|------|-----|--------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH762-04 | -04 | 06 | 1/4 | 6.4 | 0.570 | 14.5 | 5,800 | 400 | 23,200 | 1,600 | 2.0 | 50 | 366.0 |
| PH762-06 | -06 | 10 | 3/8 | 9.5 | 0.680 | 17.3 | 4,780 | 330 | 19,200 | 1,320 | 2.5 | 64 | 527.0 |
| PH762-08 | -08 | 12 | 1/2 | 12.7 | 0.820 | 20.8 | 4,000 | 275 | 16,000 | 1,104 | 3.5 | 90 | 660.0 |
| PH762-10 | -10 | 16 | 5/8 | 16.0 | 0.970 | 24.6 | 3,620 | 250 | 14,500 | 1,000 | 4.0 | 100 | 876.0 |
| PH762-12 | -12 | 20 | 3/4 | 19.0 | 1.100 | 27.9 | 3,110 | 215 | 12,440 | 860 | 4.8 | 120 | 1006.0 |
| PH762-16 | -16 | 25 | 1 | 25.4 | 1.450 | 36.8 | 2,390 | 165 | 9,600 | 660 | 6.0 | 150 | 1192.0 |



Temperature Range: Continuous: -40°C to +100°C Temp. not to exceed +70°C for Air and Water based fluids

PH301 - SEWER JET - 2500 PSI



Construction

Inner tube Thermoplastic Elastomer

Reinforcement One or more Braids of Synthetic Fiber

Cover Polyurethane, Orange Colour

Application Standard Sewer cleaning vehicles and cleaning equipments. Special construction for optimum cut and wear resistance with bonded tube and cover. Available in long lengths with a special cover resistant to microbiological degradation light weight compared to conventional rubber alternatives and increased lifetime

Note: Special colours available on request

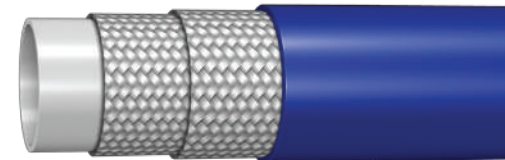
| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|-------|------|-------|------|-------|-----|-------|-----|------|-----|--------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH301-03 | -03 | 05 | 3/16 | 4.8 | 0.413 | 10.5 | 2,500 | 175 | 6,250 | 438 | 1.6 | 40 | 83.0 |
| PH301-04 | -04 | 06 | 1/4 | 6.4 | 0.505 | 12.8 | 2,500 | 175 | 6,250 | 438 | 1.6 | 40 | 118.0 |
| PH301-06 | -06 | 10 | 3/8 | 9.5 | 0.640 | 16.3 | 2,500 | 175 | 6,250 | 438 | 2.4 | 60 | 167.0 |
| PH301-08 | -08 | 12 | 1/2 | 12.7 | 0.810 | 20.6 | 2,500 | 175 | 6,250 | 438 | 4.0 | 100 | 248.0 |
| PH301-10 | -10 | 16 | 5/8 | 16.0 | 1.030 | 26.2 | 2,500 | 175 | 6,250 | 438 | 4.3 | 110 | 417.0 |
| PH301-12 | -12 | 20 | 3/4 | 19.0 | 1.150 | 29.2 | 2,500 | 175 | 6,250 | 438 | 5.0 | 125 | 496.0 |
| PH301-16 | -16 | 25 | 1 | 25.4 | 1.450 | 36.8 | 2,500 | 175 | 6,250 | 438 | 6.3 | 160 | 714.0 |
| PH301-20 | -20 | 32 | 1.1/4 | 31.8 | 1.800 | 45.7 | 2,500 | 175 | 6,250 | 438 | 10.0 | 250 | 1106.0 |



Temperature Range: Continuous: -40°C to +60°C

3

PH302 - SEWER JET - 3000 PSI



Construction

Inner tube Thermoplastic Elastomer

Reinforcement One or more Braids of Synthetic Fiber

Cover Polyurethane, Blue Colour

Application Standard Sewer cleaning vehicles and cleaning equipment. Heavy duty construction for optimum cut and wear resistance with bonded tube and cover. Available in long lengths with a special cover, resistant to microbiological degradation light weight compared to conventional rubber alternatives and increased lifetime

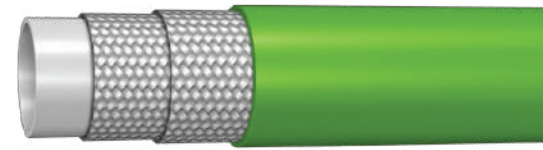
Note: Special colours available on request

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|-------|------|-------|------|-------|-----|-------|-----|------|-----|--------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH302-02 | -02 | 03 | 1/8 | 3.2 | 0.335 | 8.5 | 3,000 | 210 | 7,500 | 525 | 1.2 | 30 | 57.0 |
| PH302-03 | -03 | 05 | 3/16 | 4.8 | 0.413 | 10.5 | 3,000 | 210 | 7,500 | 525 | 1.4 | 35 | 83.0 |
| PH302-04 | -04 | 06 | 1/4 | 6.4 | 0.505 | 12.8 | 3,000 | 210 | 7,500 | 525 | 1.6 | 40 | 117.0 |
| PH302-06 | -06 | 10 | 3/8 | 9.5 | 0.640 | 16.3 | 3,000 | 210 | 7,500 | 525 | 3.0 | 75 | 170.0 |
| PH302-08 | -08 | 12 | 1/2 | 12.7 | 0.880 | 22.4 | 3,000 | 210 | 7,500 | 525 | 4.0 | 100 | 318.0 |
| PH302-10 | -10 | 16 | 5/8 | 16.0 | 1.030 | 26.2 | 3,000 | 210 | 7,500 | 525 | 4.3 | 110 | 430.0 |
| PH302-12 | -12 | 20 | 3/4 | 19.0 | 1.150 | 29.2 | 3,000 | 210 | 7,500 | 525 | 4.9 | 125 | 496.0 |
| PH302-16 | -16 | 25 | 1 | 25.4 | 1.470 | 37.3 | 3,000 | 210 | 7,500 | 525 | 6.3 | 160 | 759.0 |
| PH302-20 | -20 | 32 | 1.1/4 | 31.8 | 1.830 | 46.5 | 3,000 | 210 | 7,500 | 525 | 9.8 | 250 | 1159.0 |



Temperature Range: Continuous: -40°C to +60°C

PH303 - SEWER JET - 3600 PSI



Construction

- Inner tube** Thermoplastic Elastomer
- Reinforcement** Two or more Braids of Synthetic Fiber
- Cover** Polyurethane, Green Colour

Application Compact Sewer cleaning vehicles and lateral sewer line equipments. Heavy duty construction for optimum cut and wear resistance with bonded tube and cover. Available in long lengths with a special cover, resistant to microbiological degradation. High pressure performance and flexible hose for cleaning smaller sized sewer ducts

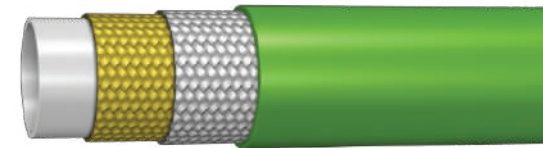
Note: Special colours available on request

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|-------|-----|--------|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH303-03 | -03 | 05 | 3/16 | 4.8 | 0.413 | 10.5 | 4,000 | 280 | 12,000 | 840 | 1.6 | 40 | 94.0 |
| PH303-04 | -04 | 06 | 1/4 | 6.4 | 0.510 | 13.0 | 4,000 | 280 | 12,000 | 840 | 1.6 | 40 | 124.0 |
| PH303-06 | -06 | 10 | 3/8 | 9.5 | 0.690 | 17.5 | 4,000 | 280 | 12,000 | 840 | 3.0 | 75 | 217.0 |
| PH303-08 | -08 | 12 | 1/2 | 12.7 | 0.880 | 22.4 | 4,000 | 280 | 10,000 | 690 | 4.0 | 100 | 316.0 |
| PH303-12 | -12 | 20 | 3/4 | 19.0 | 1.180 | 30.0 | 3,600 | 250 | 9,000 | 625 | 5.0 | 125 | 521.0 |
| PH303-16 | -16 | 25 | 1 | 25.4 | 1.500 | 38.1 | 3,600 | 250 | 9,000 | 625 | 6.3 | 160 | 811.0 |



Temperature Range: Continuous: -40°C to +60°C

PH304 - SEWER JET - 4000 PSI



Construction

- Inner tube** Thermoplastic Elastomer
- Reinforcement** One or more Braids of Aramid Fiber and one braid of synthetic fiber
- Cover** Polyurethane, Green Colour

Application Particularly suitable for use with compact vehicles and lateral sewer line cleaning equipment. High pressure capability combined with high safety factor, flexibility and small profile. Abrasion and cut resistant cover designed for long life. Ideal for use in small pipes and ducts. Bonded construction to resist kinking. Available in long lengths

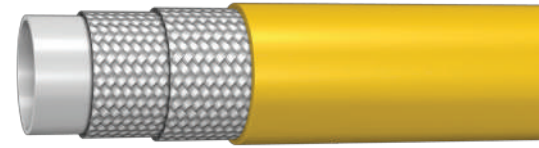
Note: Special colours available on request

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|-------|------|-------|------|-------|-----|--------|-------|------|-----|--------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH304-04 | -04 | 06 | 1/4 | 6.4 | 0.510 | 13.0 | 5,000 | 345 | 20,000 | 1,380 | 1.6 | 40 | 129.0 |
| PH304-06 | -06 | 10 | 3/8 | 9.5 | 0.640 | 16.2 | 4,000 | 280 | 16,240 | 1,120 | 2.4 | 60 | 158.0 |
| PH304-08 | -08 | 12 | 1/2 | 12.7 | 0.805 | 20.4 | 4,000 | 280 | 16,240 | 1,120 | 4.0 | 100 | 256.0 |
| PH304-10 | -10 | 16 | 5/8 | 16.0 | 0.970 | 24.6 | 4,000 | 280 | 16,240 | 1,120 | 4.5 | 115 | 356.0 |
| PH304-12 | -12 | 20 | 3/4 | 19.0 | 1.150 | 29.2 | 4,000 | 280 | 12,000 | 840 | 5.0 | 125 | 514.0 |
| PH304-16 | -16 | 25 | 1 | 25.4 | 1.450 | 36.8 | 4,000 | 280 | 10,000 | 690 | 6.3 | 160 | 734.0 |
| PH304-20 | -20 | 32 | 1.1/4 | 31.8 | 1.800 | 45.7 | 3,600 | 250 | 9,000 | 625 | 10.0 | 250 | 1136.0 |



Temperature Range: Continuous: -40°C to +60°C

PH305 - SEWER JET - 2800 PSI



Construction

Inner tube Thermoplastic Elastomer

Reinforcement One Braid of Synthetic Fiber and one special braid of synthetic fiber armoring

Cover Polyurethane, Yellow Colour

Application Ideal for those tough jobs with tight bends. Abrasion and cut resistant cover. Bonded construction to resist kinking. Design includes "armoring", enhancing flexibility and wear life. Cover material specially compounded to resist microbiological degradation. Available in long lengths

Note: Special colours available on request

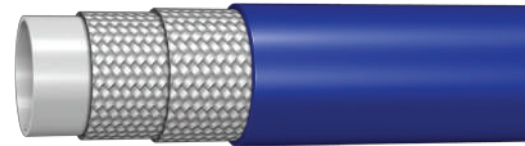
| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|-------|-----|-------|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH305-08 | -08 | 12 | 1/2 | 12.7 | 0.805 | 20.4 | 2,800 | 190 | 6,900 | 475 | 4.0 | 100 | 277.0 |
| PH305-12 | -12 | 20 | 3/4 | 19.0 | 1.160 | 29.5 | 2,800 | 190 | 6,900 | 475 | 4.7 | 120 | 495.0 |
| PH305-16 | -16 | 25 | 1 | 25.4 | 1.460 | 37.1 | 2,800 | 190 | 6,900 | 475 | 6.0 | 150 | 717.0 |



Temperature Range: Continuous: -40°C to +60°C

4

PH306 - SEWER JET - 3000 PSI



Construction

Inner tube Thermoplastic Elastomer

Reinforcement One or more braids of Synthetic Fiber and one special braid of synthetic fiber armoring

Cover Polyurethane, Blue Colour

Application Ideal for those tough jobs with tight bends. Abrasion and cut resistant cover. Bonded construction to resist kinking. Design includes "armoring", enhancing flexibility and wear life. Cover material specially compounded to resist microbiological degradation. Available in long lengths

Note: Special colours available on request

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|-------|-----|-------|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH306-12 | -12 | 20 | 3/4 | 19.0 | 1.160 | 29.5 | 3,000 | 210 | 7,500 | 525 | 4.7 | 120 | 495.0 |
| PH306-16 | -16 | 25 | 1 | 25.4 | 1.480 | 37.6 | 3,000 | 210 | 7,500 | 525 | 6.3 | 160 | 752.0 |



Temperature Range: Continuous: -40°C to +60°C

PH307 - SEWER JET - 3600 PSI



Construction

Inner tube Thermoplastic Elastomer

Reinforcement Two Braids of Synthetic Fiber and one special braid of synthetic fiber armoring

Cover Polyurethane, Blue Colour

Application Ideal for those tough jobs with tight bends. Abrasion and cut resistant cover. Bonded construction to resist kinking. Design includes "armoring", enhancing flexibility and wear life. Cover material specially compounded to resist microbiological degradation. Available in long lengths

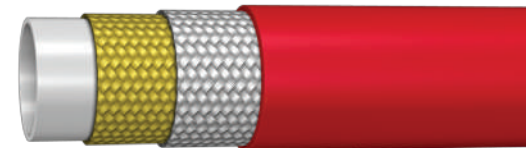
Note: Special colours available on request

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|-------|-----|-------|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH307-10 | -10 | 16 | 5/8 | 16.0 | 1.060 | 26.9 | 3,600 | 250 | 9,000 | 625 | 4.5 | 115 | 420.0 |
| PH307-12 | -12 | 20 | 3/4 | 19.0 | 1.180 | 30.0 | 3,600 | 250 | 9,000 | 625 | 5.0 | 125 | 510.0 |



Temperature Range: Continuous: -40°C to +60°C

PH308 - SEWER JET - 3600 / 4000 PSI



Construction

Inner tube Special Polyurethane

Reinforcement One or more braids of Aramid Fiber and one special braid of synthetic fiber armoring

Cover Polyurethane, Red Colour

Application Extreme flexibility at low temperature owing to special inner tube material and light weight reinforcement. Bonded construction to resist kinking. Resists cuts, abrasion and microbiological degradation. Available in long lengths

Note: Special colours available on request

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|-------|------|-------|------|-------|-----|--------|-------|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH308-08 | -08 | 12 | 1/2 | 12.7 | 0.810 | 20.6 | 4,000 | 275 | 16,000 | 1,100 | 3.1 | 80 | 260.0 |
| PH308-12 | -12 | 20 | 3/4 | 19.0 | 1.150 | 29.2 | 3,600 | 250 | 9,000 | 625 | 4.5 | 115 | 435.0 |
| PH308-16 | -16 | 25 | 1 | 25.4 | 1.440 | 36.6 | 3,600 | 250 | 9,000 | 625 | 5.3 | 135 | 700.0 |
| PH308-20 | -20 | 32 | 1.1/4 | 31.8 | 1.800 | 45.7 | 3,600 | 250 | 9,000 | 625 | 8.3 | 210 | 975.0 |



Temperature Range: Continuous: -40°C to +60°C

PH340 - PAINT & AGGRESSIVE CHEMICAL SPRAY - 2W



Construction

- Inner tube** PTFE (Polytetrafluoroethylene)
- Reinforcement** Double steel wire braids
- Cover** Polyurethane, Black Colour, Pin pricked (Optional)

Application

High Pressure Hydraulic Lines 150 to 450 bar, Compact, high pressure, Light weight and low change in length. Suitable for hydraulic application with increased resistance to abrasion for use with petroleum, synthetic or water based fluids in Hydraulic systems. Suitable for Agricultural machinery, Earthmoving, safety, rescue and material handling equipment. Can be used for industrial gases and other applications. Please consult manufacturer. Compact construction compared to conventional double steel wire braid rubber hoses

Note: Special colours available on request

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|-------|-----|--------|-------|------|-----|-----|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH340-04 | -04 | 06 | 1/4 | 6.4 | 0.520 | 13.2 | 5,000 | 350 | 20,000 | 1,400 | 4.0 | 100 | 336 |
| PH340-06 | -06 | 10 | 3/8 | 9.5 | 0.675 | 17.1 | 5,000 | 350 | 20,000 | 1,400 | 5.0 | 127 | 483 |
| PH340-08 | -08 | 12 | 1/2 | 12.7 | 0.830 | 21.1 | 5,000 | 350 | 20,000 | 1,400 | 7.0 | 178 | 605 |
| PH340-12 | -12 | 20 | 3/4 | 19.0 | 1.150 | 29.2 | 2,900 | 200 | 11,600 | 800 | 10.0 | 250 | 922 |



Temperature Range: Continuous: -40°C to +100°C Temp. not to exceed +70°C for Air and Water based fluids

4

PH341 - PAINT & AGGRESSIVE CHEMICAL SPRAY - 1W



Construction

- Inner tube** PTFE (Polytetrafluoroethylene)
- Reinforcement** Single Braid of steel wire
- Cover** Polyurethane, Blue Colour, Pin pricked

Application

Airless paint spray systems for 200 to 350 bar. Suitable for applications requiring chemical resistance to solvents and aggressive fluids. Specially suitable for moisture cure adhesives and two components chemicals transfer

Note: Special colours available on request

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|-------|-----|--------|-------|------|----|-----|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH341-03 | -03 | 05 | 3/16 | 4.8 | 0.380 | 9.7 | 5,000 | 350 | 20,000 | 1,400 | 1.2 | 30 | 138 |
| PH341-04 | -04 | 06 | 1/4 | 6.4 | 0.460 | 11.7 | 4,650 | 320 | 18,600 | 1,280 | 1.6 | 40 | 180 |
| PH341-05 | -05 | 08 | 5/16 | 8.0 | 0.535 | 13.6 | 4,000 | 275 | 16,000 | 1,100 | 2.0 | 50 | 220 |
| PH341-06 | -06 | 10 | 3/8 | 9.5 | 0.595 | 15.1 | 3,600 | 250 | 14,400 | 1,000 | 2.4 | 60 | 257 |
| PH341-08 | -08 | 12 | 1/2 | 12.7 | 0.725 | 18.4 | 2,900 | 200 | 11,600 | 800 | 3.0 | 75 | 337 |



Temperature Range: Continuous: -40°C to +100°C Temp. not to exceed +70°C for Air and Water based fluids

PH342 - PAINT SPRAY - 1W



Construction

Inner tube Polyamide

Reinforcement Single braid of steel wire

Cover Polyurethane, Blue Colour, Pin pricking (Optional)

Application Airless paint spray systems for 100 to 350 bar. Suitable for applications requiring chemical resistance to solvents and aggressive fluids. Due to low permeation value of polyamide, the hose is also suitable for industrial gases

Note: Available Twin & Multi lines with different Hose combination and Size; WP at 1:2.5 ratio also available

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|-------|-----|--------|-------|------|-----|-----|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH342-03 | -03 | 05 | 3/16 | 4.8 | 0.380 | 9.7 | 5,000 | 350 | 20,000 | 1,400 | 1.2 | 30 | 138 |
| PH342-04 | -04 | 06 | 1/4 | 6.4 | 0.460 | 11.7 | 4,650 | 320 | 18,600 | 1,280 | 1.6 | 40 | 180 |
| PH342-05 | -05 | 08 | 5/16 | 8.0 | 0.535 | 13.6 | 4,000 | 275 | 16,000 | 1,100 | 2.0 | 50 | 220 |
| PH342-06 | -06 | 10 | 3/8 | 9.5 | 0.600 | 15.2 | 3,600 | 250 | 14,400 | 1,000 | 2.4 | 60 | 257 |
| PH342-08 | -08 | 12 | 1/2 | 12.7 | 0.725 | 18.4 | 2,750 | 190 | 11,000 | 760 | 3.0 | 75 | 337 |
| PH342-10 | -10 | 16 | 5/8 | 16.0 | 0.875 | 22.2 | 2,300 | 160 | 9,200 | 640 | 4.3 | 110 | 450 |
| PH342-12 | -12 | 20 | 3/4 | 19.0 | 1.010 | 25.7 | 1,750 | 120 | 7,000 | 480 | 6.0 | 150 | 531 |
| PH342-16 | -16 | 25 | 1 | 25.4 | 1.275 | 32.4 | 1,450 | 100 | 5,800 | 400 | 9.1 | 230 | 660 |



Temperature Range: Continuous: -40°C to +100°C Temp. not to exceed +70°C for Air and Water based fluids

PH343 - PAINT SPRAY - 2W



Construction

Inner tube Polyamide

Reinforcement Double braids of steel wire

Cover Polyurethane, Blue Colour, pin pricking (Optional)

Application High pressure airless paint spray systems for 150 to 450 bar. Suitable for applications requiring chemical resistance to solvents and aggressive fluids. Due to low permeation value of polyamide, the hose is also suitable for industrial gases

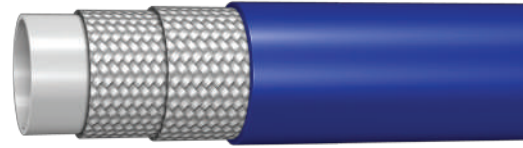
Note: Available Twin & Multi lines with different Hose combination and Size

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|-------|-----|--------|-------|------|-----|------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH343-04 | -04 | 06 | 1/4 | 6.4 | 0.540 | 13.7 | 6,500 | 450 | 26,000 | 1,800 | 4.0 | 100 | 336 |
| PH343-05 | -05 | 08 | 5/16 | 8.0 | 0.600 | 15.2 | 5,800 | 400 | 23,200 | 1,600 | 4.3 | 110 | 388 |
| PH343-06 | -06 | 10 | 3/8 | 9.5 | 0.690 | 17.5 | 5,500 | 380 | 22,000 | 1,520 | 5.0 | 127 | 483 |
| PH343-08 | -08 | 12 | 1/2 | 12.7 | 0.830 | 21.1 | 4,350 | 300 | 17,400 | 1,200 | 7.0 | 178 | 605 |
| PH343-10 | -10 | 16 | 5/8 | 16.0 | 0.975 | 24.8 | 3,000 | 210 | 12,000 | 840 | 8.0 | 203 | 803 |
| PH343-12 | -12 | 20 | 3/4 | 19.0 | 1.125 | 28.6 | 2,300 | 160 | 9,200 | 640 | 10.0 | 250 | 922 |
| PH343-16 | -16 | 25 | 1 | 25.4 | 1.360 | 34.5 | 2,175 | 150 | 8,700 | 600 | 12.0 | 305 | 1092 |



Temperature Range: Continuous: -40°C to +100°C Temp. not to exceed +70°C for Air and Water based fluids

PH 344 / PH 345 - HIGH PRESSURE PAINT SPRAY



Construction

Inner tube Polyamide

Reinforcement One or more braids of Synthetic Fiber with anti-static polymeric layer

Cover Polyurethane, Blue Colour

Application Airless paint spray systems for 228 to 360 bar. Suitable for applications requiring chemical resistance to solvents and aggressive fluids. Specially suitable for pulsating electric piston pumps

Note: Factory made hose assemblies of PH344-4 available with UL mark. Approval can be seen @www.ul.com;
Special colours available on request

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|-------|-----|--------|-------|------|-----|-----|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH344-03 | -03 | 05 | 3/16 | 4.8 | 0.413 | 10.5 | 3,500 | 240 | 14,000 | 960 | 3.5 | 88 | 95 |
| PH344-04 | -04 | 06 | 1/4 | 6.4 | 0.520 | 13.2 | 3,300 | 228 | 13,200 | 912 | 4.0 | 100 | 131 |
| PH344-06 | -06 | 10 | 3/8 | 9.5 | 0.690 | 17.5 | 3,300 | 228 | 13,200 | 912 | 5.0 | 125 | 241 |
| PH344-08 | -08 | 12 | 1/2 | 12.7 | 0.890 | 22.6 | 3,300 | 228 | 13,200 | 912 | 7.0 | 175 | 351 |
| PH345-03 | -03 | 05 | 3/16 | 4.8 | 0.435 | 11.0 | 5,200 | 360 | 15,600 | 1,080 | 3.5 | 88 | 110 |
| PH345-04 | -04 | 06 | 1/4 | 6.4 | 0.520 | 13.2 | 5,200 | 360 | 15,600 | 1,080 | 4.1 | 104 | 145 |
| PH345-06 | -06 | 10 | 3/8 | 9.5 | 0.730 | 18.5 | 3,600 | 250 | 14,400 | 1,000 | 5.1 | 130 | 270 |



Temperature Range: Continuous: -40°C to +100°C Temp. not to exceed +70°C for Air and Water based fluids

4

PH346 - VERY HIGH PRESSURE PAINT SPRAY



Construction

Inner tube Polyamide

Reinforcement One or more braids of aramid fiber with anti-static polymeric layer

Cover Polyurethane, Blue Colour, pin pricked

Application High pressure Airless paint spray systems for 245 to 350 bar. Suitable for applications requiring chemical resistance to solvents and aggressive fluids

Note: Special colours available on request

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|-------|-----|--------|-------|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH346-03 | -03 | 05 | 3/16 | 4.8 | 0.413 | 10.5 | 5,000 | 350 | 20,000 | 1,400 | 2.0 | 50 | 95.0 |
| PH346-04 | -04 | 06 | 1/4 | 6.4 | 0.490 | 12.4 | 5,000 | 350 | 20,000 | 1,400 | 3.0 | 75 | 125.0 |
| PH346-06 | -06 | 10 | 3/8 | 9.5 | 0.630 | 16.0 | 4,350 | 300 | 17,400 | 1,200 | 4.0 | 100 | 194.0 |
| PH346-08 | -08 | 12 | 1/2 | 12.7 | 0.760 | 19.3 | 3,500 | 245 | 14,000 | 980 | 4.7 | 120 | 250.0 |



Temperature Range: Continuous: -40°C to +100°C Temp. not to exceed +70°C for Air and Water based fluids

PH347 - SUPER HIGH PRESSURE PAINT SPRAY



Construction

- Inner tube** Polyamide
- Reinforcement** One or more Braids of Aramid fiber with single braid of steel wire
- Cover** Polyurethane, Blue Colour
- Application** Very high pressure Airless paint spray systems for 300 to 700 bar. Suitable for applications requiring chemical resistance to solvents and aggressive fluids

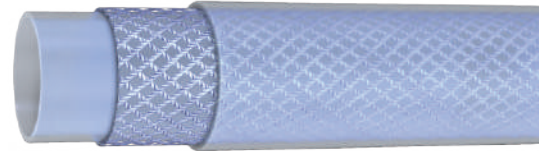
Note: Special colours available on request

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|--------|-----|--------|-------|------|-----|------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH347-04 | -04 | 06 | 1/4 | 6.4 | 0.540 | 13.7 | 10,000 | 700 | 40,000 | 2,800 | 2.8 | 70 | 240 |
| PH347-06 | -06 | 10 | 3/8 | 9.5 | 0.740 | 18.8 | 10,000 | 700 | 40,000 | 2,800 | 4.0 | 100 | 381 |
| PH347-08 | -08 | 12 | 1/2 | 12.7 | 0.880 | 22.4 | 7,500 | 520 | 30,000 | 2,080 | 7.1 | 180 | 510 |
| PH347-12 | -12 | 20 | 3/4 | 19.0 | 1.150 | 29.2 | 5,000 | 345 | 20,000 | 1,380 | 7.5 | 191 | 760 |
| PH347-16 | -16 | 25 | 1 | 25.4 | 1.440 | 36.6 | 4,350 | 300 | 17,400 | 1,200 | 10.0 | 254 | 1405 |



Temperature Range: Continuous: -40°C to +100°C Temp. not to exceed +70°C for Air and Water based fluids

PH721 / PH722 - FLUOROPOLYMER - LOW PRESSURE CONDUCTIVE / NON - CONDUCTIVE



Construction

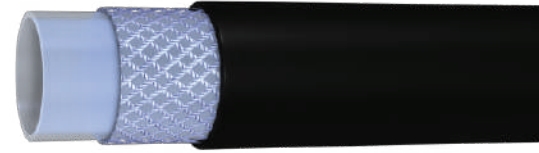
- Inner tube** FEP (Fluorinated Ethylene Propylene)
- Reinforcement** Single braid of synthetic fiber
- Cover** Polyurethane, Transparent
- Application** Conventional paint Spraying, Low pressure paint circulation and supply, Low pressure electrostatic lacquer system, Low pressure chemical product supply systems

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|------------------|-----------|----|------|------|-------|------|-----|-----|-------|-----|------|-----|-----|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH721 / PH722-04 | -04 | 06 | 1/4 | 6.4 | 0.472 | 12.0 | 290 | 20 | 1,160 | 80 | 3.5 | 90 | 117 |
| PH721 / PH722-06 | -06 | 10 | 3/8 | 9.5 | 0.600 | 15.2 | 220 | 15 | 880 | 60 | 5.1 | 130 | 175 |
| PH721 / PH722-08 | -08 | 12 | 1/2 | 12.7 | 0.827 | 21.0 | 145 | 10 | 580 | 40 | 7.1 | 180 | 275 |



Temperature Range: Continuous: -40°C to +95°C Temp. not to exceed +70°C for Air and Water based fluids

PH727 / PH728 - LOW PRESSURE CONDUCTIVE / NON - CONDUCTIVE



Construction

Inner tube Polyamide
Reinforcement Single braid of synthetic fiber
Cover Polyurethane, Black

Application Conventional paint Spraying, Low pressure paint circulation and supply, Low pressure electrostatic lacquer system, Low pressure chemical product supply systems

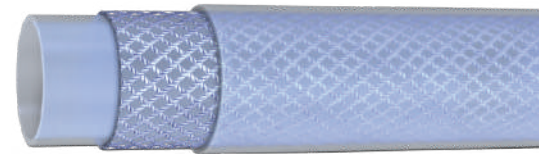
| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|------------------|-----------|----|------|------|-------|------|-----|-----|-------|-----|------|----|-----|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH727 / PH728-04 | -04 | 06 | 1/4 | 6.4 | 0.472 | 12.0 | 290 | 20 | 1,170 | 80 | 1.0 | 25 | 113 |
| PH727 / PH728-05 | -05 | 08 | 5/16 | 8.0 | 0.550 | 14.0 | 250 | 17 | 1,015 | 70 | 1.2 | 30 | 140 |
| PH727 / PH728-06 | -06 | 10 | 3/8 | 9.5 | 0.605 | 15.4 | 220 | 15 | 880 | 60 | 1.4 | 35 | 156 |
| PH727 / PH728-08 | -08 | 12 | 1/2 | 12.7 | 0.755 | 19.2 | 175 | 12 | 730 | 50 | 1.8 | 45 | 200 |



Temperature Range: Continuous: -40°C to +95°C Temp. not to exceed +70°C for Air and Water based fluids

4

PH729 / PH730 - LOW PRESSURE CONDUCTIVE / NON - CONDUCTIVE



Construction

Inner tube Polyamide
Reinforcement Single braid of synthetic fiber
Cover Polyurethane, Transparent

Application Conventional paint Spraying, Low pressure paint circulation and supply, Low pressure electrostatic lacquer system, Low pressure chemical product supply systems

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|------------------|-----------|----|------|-----|-------|------|-----|-----|-------|-----|------|----|-----|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH729 / PH730-04 | -04 | 06 | 1/4 | 6.4 | 0.413 | 10.5 | 290 | 20 | 1,170 | 80 | 1.0 | 25 | 72 |
| PH729 / PH730-05 | -05 | 08 | 5/16 | 8.0 | 0.472 | 12.0 | 250 | 17 | 1,015 | 70 | 1.2 | 30 | 85 |
| PH729 / PH730-06 | -06 | 10 | 3/8 | 9.5 | 0.555 | 14.1 | 220 | 15 | 880 | 60 | 1.4 | 35 | 113 |



Temperature Range: Continuous: -40°C to +95°C Temp. not to exceed +70°C for Air and Water based fluids

PH350 - HIGH PRESSURE JACK HOSE



Construction

Inner tube Thermoplastic Elastomer

Reinforcement Double braids of steel wire

Cover Polyurethane, Red orange colour

Application Very High-Pressure hydraulic lines 300 to 700 bar compact, high pressure, light weight, high abrasion resistance and low change in length for use with petroleum, synthetic or water-based fluid in hydraulic systems. Mainly used for rescue, safety equipment, bolt tensioning tools and jacking & re-railing equipment also, suitable for earthmoving and material handling equipment

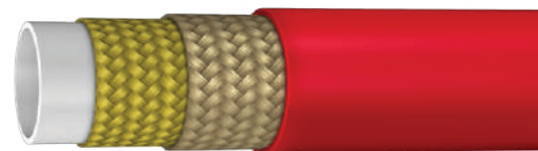
Note: Available Twin & Multi lines with different Hose combination and size. Also special colours available on request

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|--------|-----|--------|-------|------|-----|-----|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH350-04 | -04 | 06 | 1/4 | 6.4 | 0.555 | 14.1 | 10,000 | 700 | 25,000 | 1,750 | 4.0 | 100 | 356 |
| PH350-06 | -06 | 10 | 3/8 | 9.5 | 0.690 | 17.5 | 10,000 | 700 | 21,750 | 1,500 | 6.0 | 150 | 513 |
| PH350-08 | -08 | 12 | 1/2 | 12.7 | 0.830 | 21.1 | 7,250 | 500 | 18,125 | 1,250 | 8.0 | 200 | 678 |



Temperature Range: Continuous: -40°C to +100°C Temp. not to exceed +70°C for Air and Water based fluids

PH351 - VERY HIGH PRESSURE JACK HOSE



Construction

Inner tube Thermoplastic Elastomer

Reinforcement One or more braids of aramia fiber with one steel wire

Cover Polyurethane, Red orange colour

Application Very High-Pressure hydraulic lines 300 to 700 bar compact, high pressure, light weight, high abrasion resistance and low change in length for use with petroleum, synthetic or water-based fluid in hydraulic systems. Mainly used for rescue, safety equipment, bolt tensioning tools and jacking & re-railing equipment also, suitable for earthmoving and material handling equipment

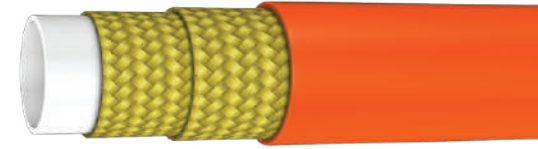
Note: Available Twin & Multi lines with different Hose combination and size. Also special colours available on request

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|--------|-----|--------|-------|------|-----|-----|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH351-03 | -03 | 05 | 3/16 | 4.8 | 0.460 | 11.7 | 10,000 | 700 | 40,000 | 2,800 | 2.0 | 50 | 170 |
| PH351-04 | -04 | 06 | 1/4 | 6.4 | 0.540 | 13.7 | 10,000 | 700 | 40,000 | 2,800 | 2.8 | 70 | 242 |
| PH351-06 | -06 | 10 | 3/8 | 9.5 | 0.740 | 18.8 | 10,000 | 700 | 40,000 | 2,800 | 4.0 | 100 | 387 |
| PH351-08 | -08 | 12 | 1/2 | 12.7 | 0.875 | 22.2 | 10,000 | 700 | 30,000 | 2,080 | 7.0 | 180 | 514 |
| PH351-12 | -12 | 20 | 3/4 | 19.0 | 1.150 | 29.2 | 5,000 | 350 | 20,000 | 1,400 | 7.5 | 191 | 753 |
| PH351-16 | -16 | 25 | 1 | 25.4 | 1.440 | 36.6 | 4,350 | 300 | 17,400 | 1,200 | 10.0 | 254 | 961 |



Temperature Range: Continuous: -40°C to +100°C Temp. not to exceed +70°C for Air and Water based fluids

PH352 - VERY HIGH PRESSURE JACK HOSE - NON CONDUCTIVE



Construction

Inner tube Thermoplastic Elastomer
Reinforcement Two or more braids of aramid fiber
Cover Polyurethane, Orange Colour

Application Non conductive Hydraulic Lines 700 bar, Compact, high pressure, light weight, high abrasion resistance and low change in length for use with petroleum, synthetic or water based fluids in Hydraulic systems. Mainly used for rescue, safety equipment, bolt tensioning tools and jacking & re-railing equipment. Mainly used in applications requiring High electrical insulation or non-conductivity

Note: Available Twin & Multi lines with different Hose combination and Size

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|--------|-----|--------|-------|------|-----|-----|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH352-02 | -02 | 02 | 1/8 | 3.2 | 0.358 | 9.1 | 10,000 | 700 | 40,000 | 2,800 | 1.0 | 25 | 76 |
| PH352-40 | — | 04 | 5/32 | 4.0 | 0.375 | 9.6 | 10,000 | 700 | 40,000 | 2,800 | 1.1 | 27 | 80 |
| PH352-04 | -04 | 06 | 1/4 | 6.4 | 0.590 | 15.0 | 10,000 | 700 | 40,000 | 2,800 | 1.4 | 35 | 195 |
| PH352-06 | -06 | 10 | 3/8 | 9.5 | 0.735 | 18.7 | 10,000 | 700 | 40,000 | 2,800 | 2.2 | 55 | 275 |
| PH352-08 | -08 | 12 | 1/2 | 12.7 | 0.920 | 23.4 | 8,000 | 550 | 32,000 | 2,200 | 4.3 | 110 | 310 |



Temperature Range: Continuous: -40°C to +100°C Temp. not to exceed +70°C for Air and Water based fluids

4

PH751 - COMPACT JACK HOSE



Construction

Inner tube Thermoplastic Elastomer
Reinforcement One or more Braids of Aramid Fiber with one braid of steel wire
Cover Polyurethane, Black Colour

Application Very High Pressure Hydraulic Lines 1034 bar, Compact, high pressure, Light weight, high abrasion resistance and low change in length for use with petroleum, synthetic or water based fluids in Hydraulic systems mainly used for Rescue & Safety equipment, torque and tension tools, jacking and re-railing equipment, high pressure pump. Also, suitable for earthmoving and material handling equipment.

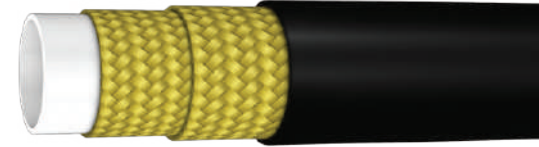
Note: Special colours available on request

| Item Code | Dash Svrize | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-------------|----|------|------|-------|------|--------|-------|--------|-------|------|-----|-----|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH751-04 | -04 | 06 | 1/4 | 6.4 | 0.570 | 14.5 | 15,000 | 1,034 | 43,500 | 3,000 | 1.5 | 38 | 272 |
| PH751-06 | -06 | 10 | 3/8 | 9.5 | 0.775 | 19.7 | 15,000 | 1,034 | 43,500 | 3,000 | 4.0 | 100 | 447 |
| PH751-08 | -08 | 12 | 1/2 | 12.7 | 0.950 | 24.1 | 15,000 | 1,034 | 36,250 | 2,500 | 7.1 | 180 | 584 |



Temperature Range: Continuous: -30°C to +70°C Temp. not to exceed +70°C for Air and Water based fluids

PH395 - AIR BREATHING HOSE - 6000PSI



Construction

Inner tube Nylon

Reinforcement One or more Braids of Aramid Fiber

Cover Polyurethane, Black Colour, Pin pricked

Application Air Compressors, Mobile and stationary units used for breathing air cylinders, Cascade Systems

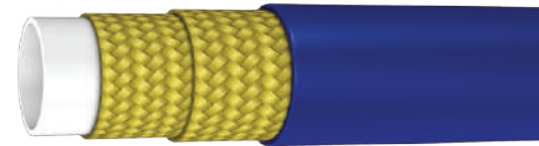
Note: Special colours available on request

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|-----|-------|------|-------|-----|--------|-------|------|----|-----|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH395-03 | -03 | 05 | 3/16 | 4.8 | 0.375 | 9.5 | 6,000 | 415 | 24,000 | 1,660 | 1.2 | 30 | 67 |
| PH395-04 | -04 | 06 | 1/4 | 6.4 | 0.488 | 12.4 | 6,000 | 415 | 24,000 | 1,660 | 2.0 | 50 | 118 |



Temperature Range: Continuous: -40°C to +80°C

PH396 - AIR BREATHING HOSE - 7000PSI



Construction

Inner tube Nylon

Reinforcement One or more Braids of Aramid Fiber

Cover Polyurethane, Blue Color, Pin pricked

Application Mobile & stationery systems, Mobile trailer / truck systems, Integrated Containment fill stations, Portable SCBA fill

Note: Hose should not be used with explosive gases such as pure oxygen and hydrogen. Special colours available on request

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|-----|-------|------|-------|-----|--------|-------|------|----|-----|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH396-03 | -03 | 05 | 3/16 | 4.8 | 0.413 | 10.5 | 7,000 | 483 | 28,000 | 1,932 | 1.5 | 38 | 80 |
| PH396-04 | -04 | 06 | 1/4 | 6.4 | 0.520 | 13.2 | 7,000 | 483 | 28,000 | 1,932 | 2.0 | 51 | 140 |



Temperature Range: Continuous: -40°C to +82°C

PH320 / PH321 / PH322 - LUBRICATION GREASE HOSE

Construction

Inner tube Thermoplastic Elastomer
Reinforcement PH320 & PH321: One or more braids of synthetic fiber
 PH322: One or more braids of aramid fiber
Cover Polyurethane, Black Colour

Application High pressure mini Hydraulic Lines 300 to 400 bar. Suitable for hydraulic application with increased resistance to abrasion for use with petroleum, synthetic or water based fluids Specifically designed for diverse greasing and lubrication applications of industrial, hand held or automatic (centralized) grease distribution equipment



Note: Please contact for different working pressure and dimensions

| Item Code | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|------|-----|-------|------|-------|-----|--------|-------|------|----|-----|
| | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH320-3.6 | 9/64 | 3.6 | 0.335 | 8.5 | 5,800 | 400 | 14,500 | 1,000 | 1.4 | 35 | 57 |
| PH320-4 | 5/32 | 4.0 | 0.315 | 8.0 | 4,350 | 300 | 10,875 | 750 | 1.6 | 40 | 54 |
| PH320-4.2 | 5/32 | 4.2 | 0.346 | 8.8 | 5,800 | 400 | 14,500 | 1,000 | 2.0 | 50 | 65 |
| PH321-4 | 5/32 | 4.0 | 0.335 | 8.5 | 5,800 | 400 | 14,500 | 1,000 | 1.8 | 45 | 64 |
| PH321-4.2 | 5/32 | 4.2 | 0.402 | 10.2 | 5,800 | 400 | 14,500 | 1,000 | 2.4 | 60 | 75 |
| PH322-3.3 | 1/8 | 3.3 | 0.353 | 9.0 | 5,800 | 400 | 23,200 | 1,600 | 1.2 | 30 | 75 |
| PH322-4 | 5/32 | 4.0 | 0.354 | 9.0 | 5,800 | 400 | 23,200 | 1,600 | 2.0 | 50 | 92 |



Temperature Range: Continuous: -40°C to +60°C

4

PH734 - GREASE HOSE - LOW PRESSURE

Construction

Inner tube Thermoplastic Elastomer
Reinforcement Single Braid of Synthetic fiber
Cover Polyurethane, Black Colour

Application Specially designed for diverse greasing and lubrication applications of the industrial, hand held or automatic (centralized) grease distribution equipment



| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|-------|-----|-------|-----|------|----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH734-04 | -04 | 06 | 1/4 | 6.4 | 0.409 | 10.4 | 1,523 | 105 | 6,090 | 420 | 1.2 | 30 | 70.0 |
| PH734-05 | -05 | 08 | 5/16 | 8.0 | 0.510 | 13.0 | 1,523 | 105 | 6,090 | 420 | 1.6 | 40 | 112.0 |
| PH734-06 | -06 | 10 | 3/8 | 9.5 | 0.551 | 14.0 | 1,523 | 105 | 6,090 | 420 | 2.0 | 50 | 160.0 |
| PH734-08 | -08 | 12 | 1/2 | 12.7 | 0.690 | 17.5 | 1,523 | 105 | 6,090 | 420 | 3.0 | 75 | 200.0 |



Temperature Range: Continuous: -40°C to +82°C

PH324 - ELECTRICALLY CONDUCTIVE COMPRESSED NATURAL GAS HOSE

Applicable Standard: Conforms to NFPA 52



Construction

Inner tube Nylon

Reinforcement Two or more Braids of Synthetic fiber with electrically conductive layer

Cover Polyurethane, Red Colour, Pin pricked

Application Refueling hose specially designed for conveying compressed natural gas. Dissipates static build-up
 Vacuum Rating : 28 inch Hg
 Special Feature : Twin and multi-lines available

Note: Wire spring guard must be used on ANSI/CSA design certified CNG dispenser fill hose assemblies.
 Special colours available on request

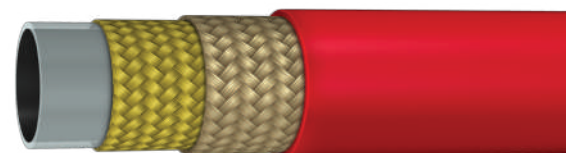
| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|-----|-------|------|-------|-----|--------|-------|------|----|-----|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH324-04 | -04 | 06 | 1/4 | 6.4 | 0.630 | 16.0 | 5,000 | 345 | 20,000 | 1,380 | 2.0 | 51 | 175 |
| PH324-06 | -06 | 10 | 3/8 | 9.5 | 0.770 | 19.6 | 4,000 | 276 | 16,000 | 1,104 | 2.5 | 64 | 280 |



Temperature Range: Continuous: -40°C to +80°C

PH325 -ELECTRICALLY CONDUCTIVE COMPRESSED NATURAL GAS

Applicable Standard: Meets to NFPA 52, ANSI/CSA NGV 4.2*CSA 12.52 (Class A, Class D),
 ANSI NGV 3.1-2014*CSA 12.3 Part 22 for Class B and
 Class C vehicle hoses



Construction

Inner tube Conductive Polyamide tube

Reinforcement Multiple Braids of Aramid and wire

Cover Abrasion, Ozone resistant and Pin-pricked Polyurethane - Red color

Application On CNC powered vehicles, Refueling of Mobile and stationary used to refill natural gas,
 CNG lines,CNG refueling dispenser
 Vacuum Rating : 28 inch Hg
 Special Feature : Dissipates static buildup, Twin and Multi lines available

Note: Wire spring guard must be used on ANSI/CSA design certified CNG dispenser fill hose assemblies.
 Special colours available on request

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|-------|-----|--------|-------|------|-----|-----|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH325-03 | -03 | 05 | 3/16 | 4.8 | 0.460 | 11.7 | 7,250 | 500 | 29,000 | 2,000 | 1.5 | 38 | 200 |
| PH325-04 | -04 | 06 | 1/4 | 6.4 | 0.550 | 14.0 | 7,250 | 500 | 29,000 | 2,000 | 2.8 | 70 | 256 |
| PH325-06 | -06 | 10 | 3/8 | 9.5 | 0.760 | 19.3 | 5,000 | 345 | 20,000 | 1,380 | 4.0 | 100 | 376 |
| PH325-08 | -08 | 12 | 1/2 | 12.7 | 0.830 | 21.1 | 5,000 | 345 | 20,000 | 1,380 | 7.1 | 180 | 405 |
| PH325-12 | -12 | 19 | 3/4 | 19.0 | 1.150 | 29.2 | 5,000 | 345 | 20,000 | 1,380 | 9.8 | 250 | 770 |
| PH325-16 | -16 | 25 | 1 | 25.4 | 1.475 | 37.5 | 5,000 | 345 | 20,000 | 1,380 | 10.0 | 254 | 980 |



Temperature Range: Continuous: -40°C to +80°C

PH334 - REFRIGERATION HOSE



Construction

Inner tube Polyamide / Polyester elastomer

Reinforcement Single braid of synthetic fiber

Cover Polyester Elastomer / Polyurethane, Black Colour, Pin Pricked

Application Specially designed to replace capillary copper tubes in industrial refrigeration Lines 42 to 52 bar High savings and cost effective vis a vis copper tube better vibration dampening property compared to copper tube

Note: Special colours available on request

| Item Code | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|------|------|-------|------|-------|-----|-------|-----|------|-----|-----|
| | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH334-20 | 5/64 | 2.0 | 0.236 | 6.0 | 600 | 42 | 3,000 | 210 | 0.4 | 10 | 30 |
| PH334-40 | 5/32 | 4.0 | 0.317 | 8.1 | 600 | 42 | 3,000 | 210 | 1.0 | 25 | 55 |
| PH334-05 | 5/16 | 8.0 | 0.540 | 13.7 | 1,523 | 105 | 6,090 | 420 | 1.8 | 45 | 120 |
| PH334-06 | 3/8 | 9.5 | 0.600 | 15.2 | 1,523 | 105 | 6,090 | 420 | 2.2 | 55 | 140 |
| PH334-08 | 1/2 | 12.7 | 0.740 | 18.8 | 1,450 | 100 | 5,800 | 400 | 3.0 | 77 | 200 |
| PH334-10 | 5/8 | 16.0 | 0.940 | 23.9 | 1,160 | 80 | 4,650 | 320 | 4.3 | 110 | 300 |
| PH334-12 | 3/4 | 19.0 | 1.075 | 27.3 | 1,160 | 80 | 4,650 | 320 | 5.5 | 140 | 345 |
| PH334-16 | 1 | 25.0 | 1.350 | 34.3 | 1000 | 70 | 4,000 | 280 | 8.0 | 200 | 481 |



Temperature Range: Continuous: -45°C to +130°C

4

PH326 / PH327 / PH328 - BEVERAGE DISPENSING HOSE



Construction

Inner tube Thermoplastic Elastomer food quality and FDA approved

Reinforcement PH326 Single or double braid of synthetic fiber

PH327 Single braid of steel wire

PH328 Single braid of aramid fiber

Cover Polyurethane, Black Colour, Pin Pricked

Application High pressure beverage dispensing lines 210 to 420 bar Specifically designed for gases, also gas mixtures used in fixed and mobile beverage dispensing units. Special tube material flavour free eliminates contamination risks and conforms to FDA and EC regulations. Please contact for different dimensions and working pressure

Note: Grey Colour Cover also available

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|-------|-----|--------|-------|------|-----|-----|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH326-04 | -04 | 06 | 1/4 | 6.4 | 0.490 | 12.4 | 3,000 | 210 | 12,000 | 840 | 1.4 | 35 | 114 |
| PH326-06 | -06 | 10 | 3/8 | 9.5 | 0.640 | 16.3 | 3,000 | 210 | 12,000 | 840 | 2.4 | 60 | 170 |
| PH326-08 | -08 | 12 | 1/2 | 12.7 | 0.855 | 21.7 | 3,000 | 210 | 12,000 | 840 | 3.9 | 100 | 300 |
| PH327-03 | -03 | 05 | 3/16 | 4.8 | 0.380 | 9.7 | 5,000 | 350 | 20,000 | 1,400 | 1.6 | 40 | 141 |
| PH327-04 | -04 | 06 | 1/4 | 6.4 | 0.460 | 11.7 | 4,650 | 320 | 18,600 | 1,280 | 1.8 | 45 | 182 |
| PH328-02 | -02 | 03 | 1/8 | 3.2 | 0.320 | 8.1 | 6,000 | 420 | 24,000 | 1,680 | 1.0 | 25 | 57 |
| PH328-03 | -03 | 05 | 3/16 | 4.8 | 0.405 | 10.3 | 5,000 | 350 | 20,000 | 1,400 | 1.0 | 25 | 87 |
| PH328-04 | -04 | 06 | 1/4 | 6.4 | 0.490 | 12.4 | 5,000 | 350 | 20,000 | 1,400 | 1.3 | 32 | 118 |
| PH328-08 | -08 | 12 | 1/2 | 12.7 | 0.770 | 19.6 | 5,000 | 350 | 20,000 | 1,400 | 3.0 | 77 | 225 |



Temperature Range: Continuous: -40°C to +80°C

PH354 / PH355 - MICRO BORE



Construction

- Inner tube** Thermoplastic Elastomer
- Reinforcement** PH354 - Single braid of synthetic fiber
PH355 - Single braid of Aramid fiber
- Cover** Polyurethane, Black Colour, Pin pricked upon request

Application Very high pressure mini Hydraulic Lines 250 to 630 bar suitable for hydraulic application , with increased resistance to abrasion for use with petroleum, synthetic or water based fluids in Hydraulic systems pressure test equipment and test points, general mini hydraulic equipment, Automotive roof and boot opening system and truck's cab lifting systems

Note: Available with polyamide 12 as core and cover

| Item Code | DN | ID | | OD | | WP | | BP | | BR/r | | W g/m |
|-----------|----|------|-----|-------|-----|-------|-----|--------|-------|------|----|----------|
| | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | |
| PH354-3 | 3 | 1/8 | 3.0 | 0.256 | 6.5 | 3,600 | 250 | 14,400 | 1,000 | 0.8 | 20 | 30 |
| PH355-2 | 2 | 5/64 | 2.0 | 0.197 | 5.0 | 9,100 | 630 | 27,300 | 1,890 | 0.8 | 20 | 24 |
| PH355-3 | 3 | 1/8 | 3.0 | 0.236 | 6.0 | 9,100 | 630 | 27,300 | 1,890 | 1.2 | 30 | 31 |
| PH355-4 | 4 | 5/32 | 4.0 | 0.315 | 8.0 | 9,100 | 630 | 27,300 | 1,890 | 1.6 | 40 | 54 |



Temperature Range: Continuous: -40°C to +100°C Temp. not to exceed +70°C for Air and Water based fluids

THERMOPLASTIC - INDUSTRIAL- PILOT LINE

PH392 - PILOT LINE HOSE



Construction

- Inner tube** Oil and Water resistant thermoplastic elastomer
- Reinforcement** Single braid of synthetic fiber
- Cover** Special thermoplastic elastomer resistant to oil, weather and abrasion , Black colour, Pin Pricked

Application Specially designed for servo control pilot Lines 120 bar and requires very high flexibility Superior finish on cover surface to have a gliding effect on the other lines that are clustered together and very minimal outer cover damages Also, suitable for medium pressure and return lines for use with petroleum, synthetic or water based fluids in Hydraulic systems Suitable for Agricultural, Construction & Material handling equipment and machineries/systems

Note: Available twin & multi lines with different hose combination and size. Also, special colours available on request

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W g/m |
|-----------|-----------|----|------|------|-------|------|-------|-----|-------|-----|------|----|----------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | |
| PH392-03 | -03 | 05 | 3/16 | 4.8 | 0.398 | 10.1 | 1,740 | 120 | 6,960 | 480 | 1.00 | 25 | 88 |
| PH392-04 | -04 | 06 | 1/4 | 6.4 | 0.453 | 11.5 | 1,740 | 120 | 6,960 | 480 | 1.20 | 30 | 92 |
| PH392-05 | -05 | 08 | 5/16 | 8.0 | 0.516 | 13.1 | 1,740 | 120 | 6,960 | 480 | 1.60 | 40 | 110 |
| PH392-06 | -06 | 10 | 3/8 | 9.5 | 0.583 | 14.8 | 1,740 | 120 | 6,960 | 480 | 2.00 | 50 | 132 |
| PH392-08 | -08 | 12 | 1/2 | 12.7 | 0.709 | 18.0 | 1,740 | 120 | 6,960 | 480 | 2.40 | 60 | 185 |

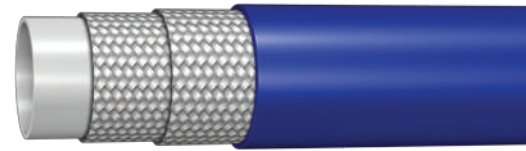


Temperature Range: Continuous: -40°C to +100°C Temp. not to exceed +70°C for Air and Water based fluids

PH758 - MOISTURE BLOK HOSE

Construction

- Inner tube** Polyolefin
- Reinforcement** Double braids of Synthetic Fiber
- Cover** Polyurethane ,Blue Colour, Pin Pricked
- Application** Conveying urethane foam components, Moisture sensitive chemicals



Note: Available twin & multi lines with different hose combination and size. Also, special colours available on request

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|-------|-----|--------|-----|------|----|-----|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH758-04 | -04 | 06 | 1/4 | 6.4 | 0.490 | 12.4 | 3,000 | 210 | 12,000 | 840 | 1.4 | 35 | 114 |
| PH758-06 | -06 | 10 | 3/8 | 9.5 | 0.640 | 16.3 | 3,000 | 210 | 12,000 | 840 | 2.4 | 60 | 170 |
| PH758-08 | -08 | 12 | 1/2 | 12.7 | 0.800 | 20.3 | 2,000 | 140 | 8,000 | 560 | 3.0 | 77 | 270 |

 **Temperature Range:** Continuous: -40°C to +60°C

THERMOPLASTIC - AUTOMOTIVE HOSE

4

PH771 - CAB TILT HOSE

Construction

- Inner tube** Thermoplastic Elastomer
- Reinforcement** One Braid of Aramid Fiber with one braid of synthetic fiber
- Cover** Polyurethane, Black Colour
- Application** Cabin tilt application



Note: On request products are available for high temperature application with special cover

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|-----|-------|-----|--------|-------|------|----|------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH771-02 | -02 | 03 | 1/8 | 3.45 | 0.291 | 7.4 | 6,091 | 420 | 24,364 | 1,680 | 1.0 | 25 | 43.5 |

 **Temperature Range:** Continuous: -40°C to +100°C

PH772 - CLUTCH HOSE

Construction

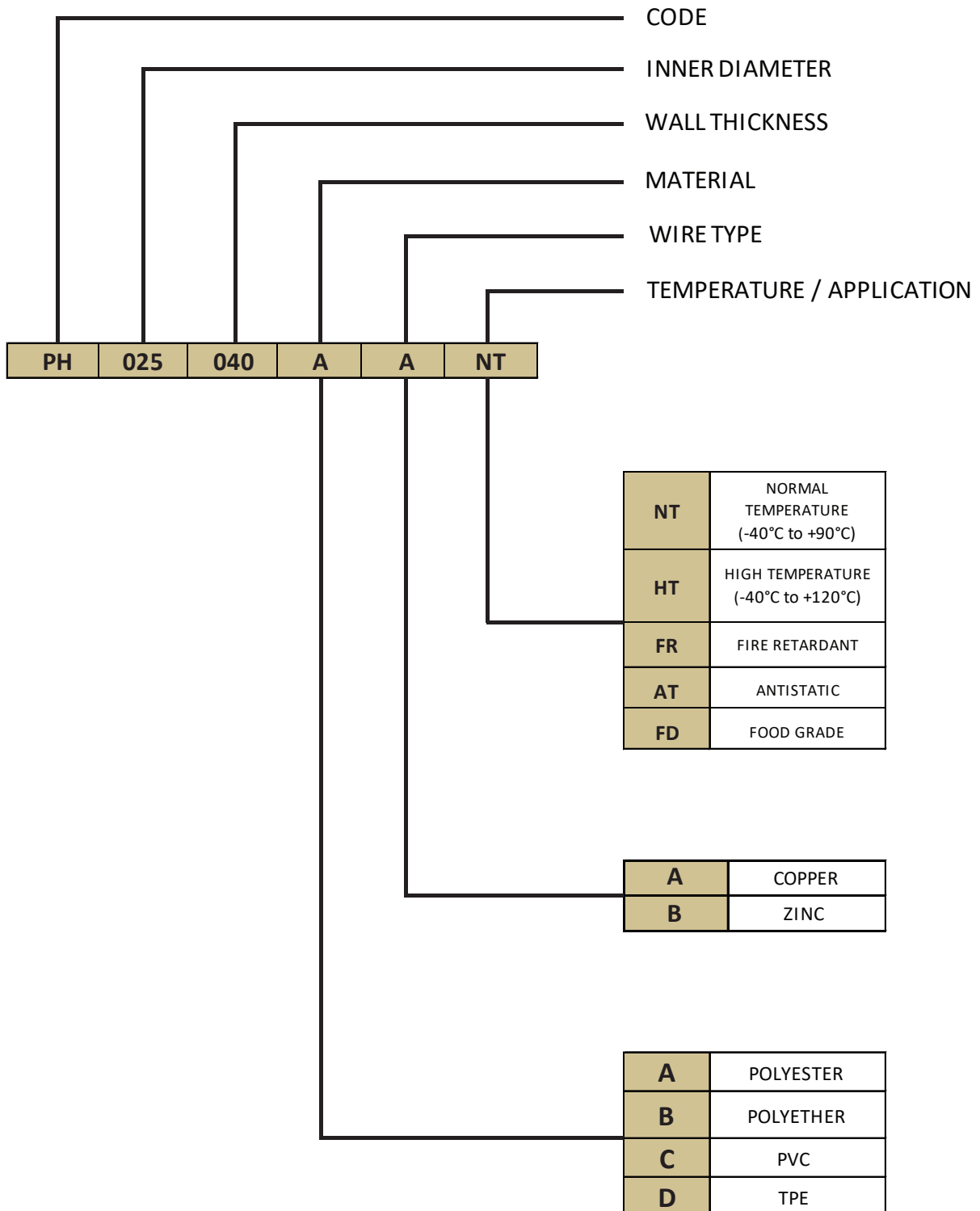
- Inner tube** Polyamide (PA11)
- Reinforcement** Single Braid of Steel Wire
- Cover** Polyurethane, Black Colour
- Application** Return hose from brake fluid reservoir to clutch. Brake filling line



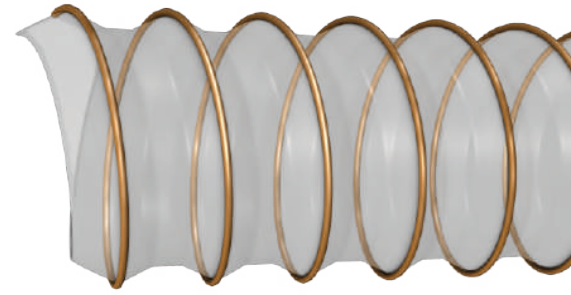
| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|-----|-------|------|-------|-----|--------|-----|------|----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH772-04 | -04 | 06 | 1/4 | 6.4 | 0.441 | 11.2 | 2,900 | 200 | 11,600 | 800 | 2.0 | 50 | 153.5 |

 **Temperature Range:** Continuous: -40°C to +100°C

HOSE NOMENCLATURE



POLYURETHANE DUCTING - STANDARD



Construction

Wall Polyester Polyurethane

Spiral Spring Steel Wire

Properties Extremely flexible, Light in weight, Microbe - resistance, Good chemical resistance, Good UV and ozone resistance, Anti static if connected with helical wire

Application Suction & transport of abrasive solids, liquids, fine grained particles, such as dust and powder. Used in extraction of oil mist, paper & textile fibers

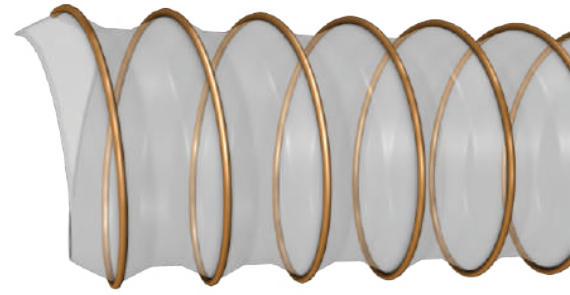
Note: Length upto 20 meters. Also special sizes are available on request

| Item Code | ID | | WT | VP | BR/r | W |
|--------------|-------|-----|------|------|------|-------|
| | inch | mm | mm | bar | mm | kg/m |
| PH032035AANT | 1.1/4 | 32 | 0.35 | 0.25 | 24 | 0.164 |
| PH038035AANT | 1.1/2 | 38 | 0.35 | 0.25 | 29 | 0.167 |
| PH040035AANT | | 40 | 0.35 | 0.25 | 30 | 0.172 |
| PH045035AANT | | 45 | 0.35 | 0.20 | 33 | 0.187 |
| PH051035AANT | 2 | 51 | 0.35 | 0.20 | 37 | 0.210 |
| PH060035AANT | | 60 | 0.35 | 0.16 | 45 | 0.246 |
| PH063035AANT | 2.1/2 | 63 | 0.35 | 0.14 | 47 | 0.255 |
| PH065035AANT | | 65 | 0.35 | 0.14 | 49 | 0.268 |
| PH070035AANT | 2.3/4 | 70 | 0.35 | 0.14 | 51 | 0.288 |
| PH076035AANT | 3 | 76 | 0.35 | 0.10 | 55 | 0.312 |
| PH080035AANT | | 80 | 0.35 | 0.10 | 59 | 0.327 |
| PH090035AANT | 3.1/2 | 90 | 0.35 | 0.10 | 67 | 0.367 |
| PH102040AANT | 4 | 102 | 0.40 | 0.09 | 70 | 0.457 |
| PH110040AANT | | 110 | 0.40 | 0.08 | 75 | 0.492 |
| PH120040AANT | | 120 | 0.40 | 0.08 | 85 | 0.536 |
| PH127040AANT | 5 | 127 | 0.40 | 0.07 | 89 | 0.566 |
| PH130040AANT | | 130 | 0.40 | 0.06 | 92 | 0.579 |
| PH140040AANT | 5.1/2 | 140 | 0.40 | 0.06 | 95 | 0.623 |
| PH150040AANT | | 150 | 0.40 | 0.06 | 105 | 0.688 |
| PH152040AANT | 6 | 152 | 0.40 | 0.06 | 107 | 0.701 |
| PH160045AANT | | 160 | 0.45 | 0.06 | 109 | 0.859 |
| PH180045AANT | 7 | 180 | 0.45 | 0.05 | 120 | 0.963 |
| PH200045AANT | 7.7/8 | 200 | 0.45 | 0.05 | 135 | 1.068 |
| PH220045AANT | | 220 | 0.45 | 0.04 | 150 | 1.100 |
| PH250050AANT | 10 | 250 | 0.50 | 0.04 | 165 | 1.285 |
| PH279050AANT | 11 | 279 | 0.50 | 0.03 | 185 | 1.432 |
| PH300050AANT | 12 | 300 | 0.50 | 0.03 | 205 | 1.538 |
| PH350050AANT | 14 | 350 | 0.50 | 0.02 | 240 | 1.792 |
| PH400050AANT | 16 | 400 | 0.50 | 0.02 | 272 | 2.045 |
| PH450050AANT | 18 | 450 | 0.50 | 0.01 | 305 | 2.331 |
| PH500050AANT | 20 | 500 | 0.50 | 0.01 | 340 | 2.588 |
| PH600050AANT | 24 | 600 | 0.50 | 0.01 | 385 | 3.101 |



Temperature Range: Continuous: -40°C to +90°C

POLYURETHANE DUCTING - STANDARD C



Construction

Wall Polyester Polyurethane
Spiral Spring Steel Wire

Properties Extremely flexible, Light in Weight, High abrasion resistant, Microbe - resistance, Good chemical resistance, Good UV and ozone resistance, Oil / petroleum proof, Increased vacuum and pressure resistance, Anti static if connected with helical wire

Application Suction & transport of abrasive solids, liquids, fine grained particles, such as dust and powder. Used in extraction of oil mist, paper & textile fibers

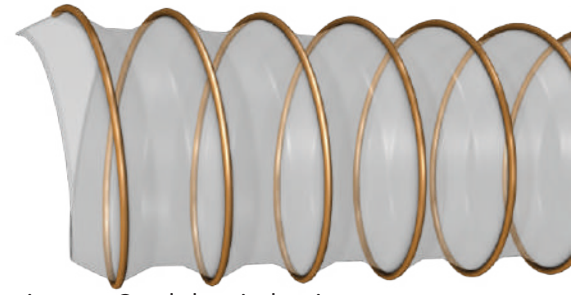
Note: Length upto 20 meters. Also special sizes are available on request

| Item Code | ID | | WT | VP | BR/r | W |
|--------------|-------|-----|------|------|------|-------|
| | inch | mm | mm | bar | mm | kg/m |
| PH032040AANT | 1.1/4 | 32 | 0.40 | 0.25 | 22 | 0.178 |
| PH038040AANT | 1.1/2 | 38 | 0.40 | 0.25 | 27 | 0.186 |
| PH040040AANT | | 40 | 0.40 | 0.25 | 28 | 0.195 |
| PH045040AANT | | 45 | 0.40 | 0.20 | 32 | 0.203 |
| PH051040AANT | 2 | 51 | 0.40 | 0.20 | 35 | 0.229 |
| PH060040AANT | | 60 | 0.40 | 0.16 | 42 | 0.268 |
| PH063040AANT | 2.1/2 | 63 | 0.40 | 0.14 | 45 | 0.280 |
| PH065040AANT | | 65 | 0.40 | 0.14 | 46 | 0.290 |
| PH070040AANT | | 70 | 0.40 | 0.14 | 49 | 0.312 |
| PH076040AANT | 3 | 76 | 0.40 | 0.10 | 53 | 0.337 |
| PH080040AANT | | 80 | 0.40 | 0.10 | 56 | 0.354 |
| PH090040AANT | 3.1/2 | 90 | 0.40 | 0.10 | 62 | 0.397 |
| PH102040AANT | 4 | 102 | 0.40 | 0.09 | 70 | 0.457 |
| PH110040AANT | | 110 | 0.40 | 0.08 | 84 | 0.492 |
| PH120040AANT | | 120 | 0.40 | 0.08 | 85 | 0.536 |
| PH127040AANT | 5 | 127 | 0.40 | 0.08 | 88 | 0.566 |
| PH130040AANT | | 130 | 0.40 | 0.06 | 91 | 0.579 |
| PH140040AANT | 5.1/2 | 140 | 0.40 | 0.06 | 95 | 0.623 |
| PH150040AANT | | 150 | 0.40 | 0.06 | 105 | 0.688 |
| PH152040AANT | 6 | 152 | 0.40 | 0.06 | 107 | 0.701 |
| PH160040AANT | | 160 | 0.40 | 0.05 | 110 | 0.808 |
| PH180040AANT | 7 | 180 | 0.40 | 0.05 | 123 | 0.906 |
| PH200040AANT | 7.7/8 | 200 | 0.40 | 0.05 | 140 | 1.004 |
| PH220040AANT | | 220 | 0.40 | 0.05 | 160 | 1.070 |
| PH250040AANT | 10 | 250 | 0.40 | 0.04 | 175 | 1.134 |
| PH279040AANT | 11 | 279 | 0.40 | 0.03 | 196 | 1.263 |
| PH300040AANT | 12 | 300 | 0.40 | 0.03 | 210 | 1.357 |
| PH350040AANT | 14 | 350 | 0.40 | 0.02 | 245 | 1.580 |
| PH400040AANT | 16 | 400 | 0.40 | 0.02 | 280 | 1.803 |
| PH450040AANT | 18 | 450 | 0.40 | 0.01 | 315 | 2.067 |
| PH500040AANT | 20 | 500 | 0.40 | 0.01 | 350 | 2.295 |
| PH600040AANT | 24 | 600 | 0.40 | 0.01 | 400 | 2.750 |



Temperature Range: Continuous: -40°C to +90°C

POLYURETHANE DUCTING - MEDIUM



Construction

Wall Polyester Polyurethane

Spiral Spring Steel Wire

Properties Extremely flexible, Light in Weight, High abrasion resistant, Microbe - resistance, Good chemical resistance, Good UV and ozone resistance, Oil / petroleum proof, Increased vacuum and pressure resistance, Anti static if connected with helical wire

Application Suction & transport of abrasive solids, liquids, fine grained particles, such as dust and powder. Used in extraction of oil mist, paper & textile fibers

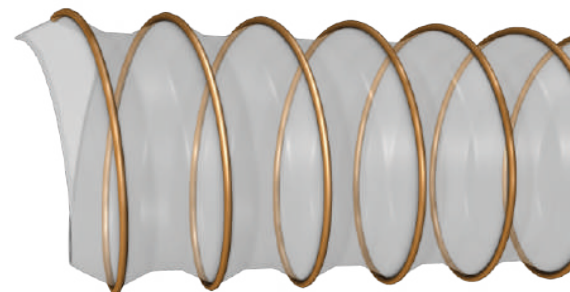
Note: Length upto 20 meters. Also special sizes are available on request

| Item Code | ID | | WT | VP | BR/r | W |
|--------------|-------|-----|------|------|------|-------|
| | inch | mm | mm | bar | mm | kg/m |
| PH032050AANT | 1.1/4 | 32 | 0.50 | 0.25 | 32 | 0.204 |
| PH038050AANT | 1.1/2 | 38 | 0.50 | 0.25 | 38 | 0.240 |
| PH040050AANT | | 40 | 0.50 | 0.20 | 40 | 0.252 |
| PH045050AANT | | 45 | 0.50 | 0.16 | 45 | 0.282 |
| PH051050AANT | 2 | 51 | 0.50 | 0.16 | 51 | 0.318 |
| PH060050AANT | | 60 | 0.50 | 0.16 | 60 | 0.372 |
| PH063050AANT | 2.1/2 | 63 | 0.50 | 0.16 | 63 | 0.448 |
| PH065050AANT | | 65 | 0.50 | 0.16 | 65 | 0.462 |
| PH070050AANT | | 70 | 0.50 | 0.14 | 70 | 0.496 |
| PH076050AANT | 3 | 76 | 0.50 | 0.10 | 76 | 0.515 |
| PH080050AANT | | 80 | 0.50 | 0.10 | 80 | 0.537 |
| PH090050AANT | 3.1/2 | 90 | 0.50 | 0.10 | 90 | 0.545 |
| PH102060AANT | 4 | 102 | 0.60 | 0.09 | 102 | 0.780 |
| PH110060AANT | | 110 | 0.60 | 0.08 | 110 | 0.840 |
| PH120060AANT | | 120 | 0.60 | 0.08 | 120 | 0.914 |
| PH127060AANT | 5 | 127 | 0.60 | 0.08 | 127 | 0.966 |
| PH130060AANT | | 130 | 0.60 | 0.08 | 130 | 0.981 |
| PH140060AANT | 5.1/2 | 140 | 0.60 | 0.08 | 140 | 0.989 |
| PH150060AANT | | 150 | 0.60 | 0.06 | 150 | 1.096 |
| PH152060AANT | 6 | 152 | 0.60 | 0.06 | 152 | 1.116 |
| PH160060AANT | | 160 | 0.60 | 0.06 | 160 | 1.463 |
| PH180085AANT | 7 | 180 | 0.85 | 0.05 | 180 | 1.995 |
| PH200085AANT | 7.7/8 | 200 | 0.85 | 0.05 | 200 | 2.188 |
| PH220085AANT | | 220 | 0.85 | 0.05 | 220 | 2.213 |
| PH250085AANT | 10 | 250 | 0.85 | 0.05 | 250 | 2.482 |
| PH279085AANT | 11 | 279 | 0.85 | 0.05 | 279 | 2.767 |
| PH300085AANT | 12 | 300 | 0.85 | 0.04 | 300 | 2.973 |
| PH350085AANT | 14 | 350 | 0.85 | 0.04 | 350 | 3.029 |
| PH400085AANT | 16 | 400 | 0.85 | 0.03 | 400 | 3.458 |
| PH450085AANT | 18 | 450 | 0.85 | 0.03 | 450 | 3.784 |
| PH500085AANT | 20 | 500 | 0.85 | 0.02 | 500 | 4.201 |
| PH600085AANT | 24 | 600 | 0.85 | 0.01 | 600 | 5.037 |



Temperature Range: Continuous: -40°C to +90°C

POLYURETHANE DUCTING - MEDIUM C



Construction

Wall Polyester Polyurethane

Spiral Spring Steel Wire

Properties Extremely flexible, Light in Weight, High abrasion resistant, Microbe - resistance, Good chemical resistance, Good UV and ozone resistance, Oil / petroleum proof, Increased vacuum and pressure resistance, Anti static if connected with helical wire

Application Suction & transport of abrasive solids, liquids, fine grained particles, such as dust and powder. Used in extraction of oil mist, paper & textile fibers

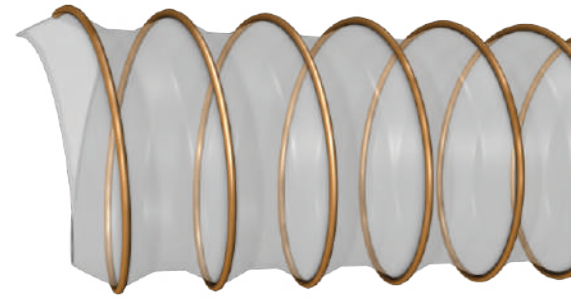
Note: Length upto 20 meters. Also special sizes are available on request

| Item Code | ID | | WT | VP | BR/r | W |
|--------------|-------|-----|------|------|------|-------|
| | inch | mm | mm | bar | mm | kg/m |
| PH032060AANT | 1.1/4 | 32 | 0.60 | 0.30 | 25 | 0.231 |
| PH038060AANT | 1.1/2 | 38 | 0.60 | 0.30 | 27 | 0.272 |
| PH040060AANT | | 40 | 0.60 | 0.25 | 30 | 0.285 |
| PH045060AANT | | 45 | 0.60 | 0.20 | 32 | 0.319 |
| PH051060AANT | 2 | 51 | 0.60 | 0.20 | 35 | 0.360 |
| PH060060AANT | | 60 | 0.60 | 0.16 | 40 | 0.422 |
| PH063060AANT | 2.1/2 | 63 | 0.60 | 0.16 | 43 | 0.501 |
| PH065060AANT | | 65 | 0.60 | 0.16 | 46 | 0.516 |
| PH070060AANT | | 70 | 0.60 | 0.14 | 50 | 0.555 |
| PH076060AANT | 3 | 76 | 0.60 | 0.10 | 53 | 0.601 |
| PH080060AANT | | 80 | 0.60 | 0.10 | 55 | 0.610 |
| PH090060AANT | 3.1/2 | 90 | 0.60 | 0.10 | 65 | 0.625 |
| PH102060AANT | 4 | 102 | 0.60 | 0.09 | 70 | 0.780 |
| PH110060AANT | | 110 | 0.60 | 0.08 | 75 | 0.840 |
| PH120060AANT | | 120 | 0.60 | 0.08 | 80 | 0.914 |
| PH127060AANT | 5 | 127 | 0.60 | 0.08 | 85 | 0.966 |
| PH130060AANT | | 130 | 0.60 | 0.08 | 90 | 0.981 |
| PH140060AANT | 5.1/2 | 140 | 0.60 | 0.08 | 95 | 0.989 |
| PH150060AANT | | 150 | 0.60 | 0.06 | 97 | 1.096 |
| PH152060AANT | 6 | 152 | 0.60 | 0.06 | 100 | 1.116 |
| PH160060AANT | | 160 | 0.60 | 0.06 | 110 | 1.463 |
| PH180060AANT | 7 | 180 | 0.60 | 0.05 | 120 | 1.642 |
| PH200060AANT | 7.7/8 | 200 | 0.60 | 0.05 | 135 | 1.785 |
| PH220060AANT | | 220 | 0.60 | 0.05 | 150 | 1.820 |
| PH250060AANT | 10 | 250 | 0.60 | 0.04 | 170 | 2.024 |
| PH279060AANT | 11 | 279 | 0.60 | 0.03 | 185 | 2.256 |
| PH300060AANT | 12 | 300 | 0.60 | 0.03 | 200 | 2.423 |
| PH350060AANT | 14 | 350 | 0.60 | 0.02 | 250 | 2.440 |
| PH400060AANT | 16 | 400 | 0.60 | 0.02 | 270 | 2.785 |
| PH450060AANT | 18 | 450 | 0.60 | 0.01 | 350 | 3.068 |
| PH500060AANT | 20 | 500 | 0.60 | 0.01 | 400 | 3.406 |
| PH600060AANT | 24 | 600 | 0.60 | 0.01 | 500 | 4.083 |



Temperature Range: Continuous: -40°C to +90°C

POLYURETHANE DUCTING - HEAVY



Construction

Wall Polyester Polyurethane

Spiral Spring Steel Wire

Properties Extremely flexible, Light in Weight, Microbe - resistance, Good chemical resistance, Good UV and ozone resistance

Application Suction & transport of abrasive solids, liquids, fine grained particles, such as dust and powder. Used in extraction of oil mist, paper & textile fibers

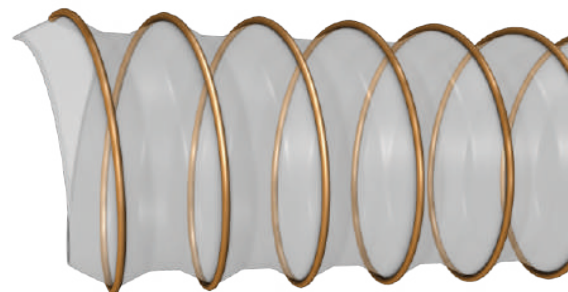
Note: Length upto 20 meters. Also special sizes are available on request

| Item Code | ID | | WT | VP | BR/r | W |
|--------------|-------|-----|------|------|------|-------|
| | inch | mm | mm | bar | mm | kg/m |
| PH032080AANT | 1.1/4 | 32 | 0.80 | 0.45 | 48 | 0.317 |
| PH038090AANT | 1.1/2 | 38 | 0.90 | 0.45 | 55 | 0.405 |
| PH040090AANT | | 40 | 0.90 | 0.45 | 60 | 0.426 |
| PH045090AANT | | 45 | 0.90 | 0.40 | 68 | 0.476 |
| PH051090AANT | 2 | 51 | 0.90 | 0.40 | 75 | 0.537 |
| PH060090AANT | | 60 | 0.90 | 0.35 | 90 | 0.629 |
| PH063090AANT | 2.1/2 | 63 | 0.90 | 0.35 | 95 | 0.730 |
| PH065090AANT | | 65 | 0.90 | 0.35 | 98 | 0.752 |
| PH070090AANT | | 70 | 0.90 | 0.35 | 105 | 0.808 |
| PH076090AANT | 3 | 76 | 0.90 | 0.30 | 113 | 0.876 |
| PH080090AANT | | 80 | 0.90 | 0.30 | 120 | 0.900 |
| PH090090AANT | 3.1/2 | 90 | 0.90 | 0.30 | 135 | 0.986 |
| PH102110AANT | 4 | 102 | 1.10 | 0.30 | 150 | 1.272 |
| PH110110AANT | | 110 | 1.10 | 0.25 | 170 | 1.369 |
| PH120110AANT | | 120 | 1.10 | 0.25 | 180 | 1.492 |
| PH127110AANT | 5 | 127 | 1.10 | 0.20 | 185 | 1.577 |
| PH130110AANT | | 130 | 1.10 | 0.20 | 195 | 1.614 |
| PH140110AANT | 5.1/2 | 140 | 1.10 | 0.20 | 210 | 1.650 |
| PH150110AANT | | 150 | 1.10 | 0.20 | 225 | 1.808 |
| PH152110AANT | 6 | 152 | 1.10 | 0.15 | 230 | 1.839 |
| PH160110AANT | | 160 | 1.10 | 0.15 | 240 | 2.092 |
| PH180110AANT | 7 | 180 | 1.10 | 0.12 | 270 | 2.349 |
| PH200110AANT | 7.7/8 | 200 | 1.10 | 0.12 | 300 | 2.606 |
| PH220130AANT | | 220 | 1.30 | 0.11 | 338 | 3.118 |
| PH250130AANT | 10 | 250 | 1.30 | 0.10 | 375 | 3.538 |
| PH279130AANT | 11 | 279 | 1.30 | 0.10 | 400 | 3.944 |
| PH300130AANT | 12 | 300 | 1.30 | 0.09 | 450 | 4.238 |
| PH350130AANT | 14 | 350 | 1.30 | 0.09 | 525 | 4.345 |
| PH400130AANT | 16 | 400 | 1.30 | 0.08 | 600 | 4.962 |
| PH450130AANT | 18 | 450 | 1.30 | 0.06 | 675 | 5.372 |
| PH500130AANT | 20 | 500 | 1.30 | 0.04 | 750 | 5.966 |
| PH600130AANT | 24 | 600 | 1.30 | 0.03 | 840 | 7.153 |



Temperature Range: Continuous: -40°C to +90°C

POLYURETHANE DUCTING - HEAVY C



Construction

Wall Polyester Polyurethane

Spiral Spring Steel Wire

Properties Extremely flexible, Light in Weight, Microbe - resistance, Good chemical resistance, Good UV and ozone resistance

Application Suction & transport of abrasive solids, liquids, fine grained particles, such as dust and powder. Used in extraction of oil mist, paper & textile fibers

Note: Length upto 20 meters. Also special sizes are available on request

| Item Code | ID | | WT | VP | BR/r | W |
|--------------|-------|-----|------|------|------|-------|
| | inch | mm | mm | bar | mm | kg/m |
| PH032120AANT | 1.1/4 | 32 | 1.20 | 0.45 | 48 | 0.426 |
| PH038120AANT | 1.1/2 | 38 | 1.20 | 0.45 | 55 | 0.501 |
| PH040120AANT | | 40 | 1.20 | 0.45 | 60 | 0.527 |
| PH045120AANT | | 45 | 1.20 | 0.40 | 68 | 0.590 |
| PH051120AANT | 2 | 51 | 1.20 | 0.40 | 75 | 0.667 |
| PH060120AANT | | 60 | 1.20 | 0.35 | 90 | 0.780 |
| PH063120AANT | 2.1/2 | 63 | 1.20 | 0.35 | 95 | 0.890 |
| PH065120AANT | | 65 | 1.20 | 0.35 | 98 | 0.917 |
| PH070120AANT | | 70 | 1.20 | 0.35 | 105 | 0.986 |
| PH076120AANT | 3 | 76 | 1.20 | 0.30 | 113 | 1.069 |
| PH080120AANT | | 80 | 1.20 | 0.30 | 120 | 1.140 |
| PH090120AANT | 3.1/2 | 90 | 1.20 | 0.30 | 135 | 1.194 |
| PH102120AANT | 4 | 102 | 1.20 | 0.30 | 150 | 1.350 |
| PH110120AANT | | 110 | 1.20 | 0.25 | 170 | 1.454 |
| PH120120AANT | | 120 | 1.20 | 0.25 | 180 | 1.584 |
| PH127120AANT | 5 | 127 | 1.20 | 0.20 | 185 | 1.675 |
| PH130120AANT | | 130 | 1.20 | 0.20 | 195 | 1.714 |
| PH140120AANT | 5.1/2 | 140 | 1.20 | 0.20 | 210 | 1.800 |
| PH150120AANT | | 150 | 1.20 | 0.20 | 225 | 1.926 |
| PH152120AANT | 6 | 152 | 1.20 | 0.15 | 230 | 1.958 |
| PH160120AANT | | 160 | 1.20 | 0.15 | 240 | 2.218 |
| PH180120AANT | 7 | 180 | 1.20 | 0.12 | 270 | 2.490 |
| PH200120AANT | 7.7/8 | 200 | 1.20 | 0.12 | 300 | 2.763 |
| PH220120AANT | | 220 | 1.20 | 0.11 | 338 | 2.956 |
| PH250120AANT | 10 | 250 | 1.20 | 0.10 | 375 | 3.353 |
| PH279120AANT | 11 | 279 | 1.20 | 0.10 | 400 | 3.738 |
| PH300120AANT | 12 | 300 | 1.20 | 0.09 | 450 | 4.017 |
| PH350120AANT | 14 | 350 | 1.20 | 0.09 | 525 | 4.109 |
| PH400120AANT | 16 | 400 | 1.20 | 0.08 | 600 | 4.691 |
| PH450120AANT | 18 | 450 | 1.20 | 0.06 | 675 | 5.085 |
| PH500120AANT | 20 | 500 | 1.20 | 0.04 | 750 | 5.646 |
| PH600120AANT | 24 | 600 | 1.20 | 0.03 | 840 | 6.770 |



Temperature Range: Continuous: -40°C to +90°C

PRODUCT CODE NOMENCLATURE

12 **01250** **01000** **BK**

Colour Codes

- BK** - BLACK
- GY** - GRAY
- LB** - LIGHT BLUE
- NT** - NATURAL
- RD** - RED
- YW** - YELLOW

Five digits represents Inner Diameter
 e.g. (10.00 mm Inner diameter)
 10 - Whole Number, 00 - Decimal value
 (110.00 mm Inner diameter)
 110 - Whole Number, 00 - Decimal value

Five digits represents Outer Diameter
 e.g. (12.50 mm outer diameter)
 12 - Whole Number, 50 - Decimal value
 (122.00 mm outer diameter)
 122 - Whole Number, 00 - Decimal value

- | | |
|-----------------------------|--------------------------------------|
| 6 PA 6 TUBE | 14 SPATTER HOSE |
| 10 TPE TUBE | 18 PTFE PLAIN TUBE |
| 11 PA 11 TUBE | 19 PTFE CONVO TUBE |
| 12 PA 12 TUBE | 20 PTFE CONDUCTIVE PLAIN TUBE |
| 13 POLYURETHANE TUBE | 21 PTFE CONDUCTIVE CONVO TUBE |

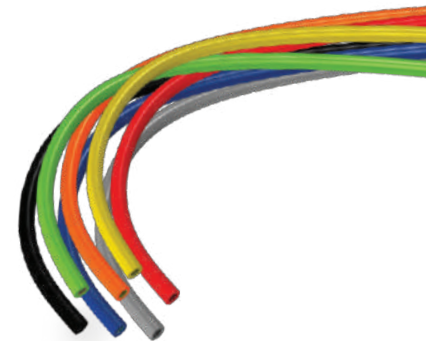
4

POLYAMIDE TUBING

Applicable Standard : DIN73378, DIN74324







Application Automotive gasoline, High pressure lubricants, Refrigeration lines, Gasoline in various industries, Fuel lines for petrol engines, Beverage lines, For conveying hydrocarbon, For Conveying Vegetable oil, For Conveying Ester, etc., Air line on pneumatic controls systems, Lines for air compressors & vacuum pumps







 **Temperature Range:** Continuous: -40°C to +100°C



Note: We also supply PA11 and TPE tubes. Kindly refer our part nomenclature before ordering. Also special sizes and colours are available on request. Multilayer upto 5 layers available on request

Technical Details

| Item Code |  |  |  |  |  |  |
|-----------------|---|---|---|---|---|---|
| | ID | OD | WT | BP | BR/r | W |
| | mm | mm | mm | (Kg/cm ²) | mm | g/m |
| 12-0030000150BK | 1.50 | 3.00 | 0.75 | 200 | 20 | 7 |
| 12-0040000200BK | 2.00 | 4.00 | 1.00 | 200 | 20 | 12 |
| 12-0040000250BK | 2.50 | 4.00 | 0.75 | 135 | 20 | 10 |
| 12-0040000300BK | 3.00 | 4.00 | 0.50 | 85 | 20 | 7 |
| 12-0047000270BK | 2.70 | 4.70 | 1.00 | 160 | 25 | 14 |
| 12-0050000300BK | 3.00 | 5.00 | 1.00 | 150 | 25 | 16 |
| 12-0050000400BK | 4.00 | 5.00 | 0.50 | 120 | 30 | 9 |
| 12-0060000300BK | 3.00 | 6.00 | 1.50 | 200 | 30 | 26 |
| 12-0060000400BK | 4.00 | 6.00 | 1.00 | 120 | 30 | 20 |
| 12-0060000500BK | 5.00 | 6.00 | 0.50 | 55 | 30 | 11 |
| 12-0080000600BK | 6.00 | 8.00 | 1.00 | 85 | 40 | 27 |
| 12-0080000500BK | 5.00 | 8.00 | 1.50 | 140 | 40 | 38 |
| 12-0095000750BK | 7.50 | 9.50 | 1.00 | 70 | 50 | 33 |
| 12-0095000600BK | 6.00 | 9.50 | 1.75 | 135 | 50 | 53 |
| 12-0100000800BK | 8.00 | 10.00 | 1.00 | 65 | 50 | 35 |
| 12-0120001000BK | 10.00 | 12.00 | 1.00 | 55 | 80 | 43 |
| 12-0125001000BK | 10.00 | 12.50 | 1.25 | 65 | 85 | 55 |
| 12-0150001200BK | 12.00 | 15.00 | 1.50 | 65 | 90 | 79 |
| 12-0160001400BK | 14.00 | 16.00 | 1.00 | 40 | 110 | 59 |

| Item Code |  |  |  |  |  |  |
|-----------------|---|---|---|---|---|---|
| | ID | OD | WT | BP | BR/r | W |
| | mm | mm | mm | (Kg/cm ²) | mm | g/m |
| 06-0030000150NT | 1.50 | 3.00 | 0.75 | 270 | 20 | 7 |
| 06-0040000200NT | 2.00 | 4.00 | 1.00 | 270 | 20 | 12 |
| 06-0040000250NT | 2.50 | 4.00 | 0.75 | 185 | 20 | 10 |
| 06-0040000300NT | 3.00 | 4.00 | 0.50 | 115 | 20 | 7 |
| 06-0047000270NT | 2.70 | 4.70 | 1.00 | 215 | 25 | 14 |
| 06-0050000300NT | 3.00 | 5.00 | 1.00 | 200 | 35 | 16 |
| 06-0050000400NT | 4.00 | 5.00 | 0.50 | 50 | 40 | 9 |
| 06-0060000300NT | 3.00 | 6.00 | 1.50 | 270 | 40 | 26 |
| 06-0060000400NT | 4.00 | 6.00 | 1.00 | 160 | 40 | 20 |
| 06-0060000500NT | 5.00 | 6.00 | 0.50 | 75 | 40 | 11 |
| 06-0080000600NT | 6.00 | 8.00 | 1.00 | 115 | 50 | 27 |
| 06-0080000500NT | 5.00 | 8.00 | 1.50 | 185 | 60 | 38 |
| 06-0095000750NT | 7.50 | 9.50 | 1.00 | 95 | 60 | 33 |
| 06-0095000600NT | 6.00 | 9.50 | 1.75 | 180 | 70 | 53 |
| 06-0100000800NT | 8.00 | 10.00 | 1.00 | 90 | 60 | 35 |
| 06-0120001000NT | 10.00 | 12.00 | 1.00 | 70 | 80 | 43 |
| 06-0125001000NT | 10.00 | 12.50 | 1.25 | 75 | 85 | 55 |
| 06-0150001200NT | 12.00 | 15.00 | 1.50 | 90 | 100 | 79 |
| 06-0160001400NT | 14.00 | 16.00 | 1.00 | 55 | 110 | 59 |

POLYURETHANE TUBING










- Properties**
- UV-Resistant
 - Silicone free
 - Good vibration absorption
 - Supreme abrasion resistance
 - Consistent tensile strength for long life
- Application**
- Pneumatics, Robotics, Automation, Cabling , Food processing








Note: Also special sizes and colours are available on request

Technical Details

Metric size

| Item Code |  OD |  ID |  WT |  WP |  BP |  BR/r |  W |
|-----------------|--|--|--|--|--|--|---|
| | mm | mm | mm | bar | bar | mm | g/m |
| 13-0040000200LB | 4.00 | 2.00 | 1.00 | 13 | 39 | 10 | 12 |
| 13-0040000250LB | 4.00 | 2.50 | 0.75 | 13 | 39 | 10 | 10 |
| 13-0043000290LB | 4.30 | 2.90 | 0.70 | 13 | 39 | 13 | 10 |
| 13-0050000300LB | 5.00 | 3.00 | 1.00 | 13 | 39 | 15 | 17 |
| 13-0060000400LB | 6.00 | 4.00 | 1.00 | 11 | 33 | 20 | 21 |
| 13-0080000500LB | 8.00 | 5.00 | 1.50 | 12 | 36 | 30 | 40 |
| 13-0080000550LB | 8.00 | 5.50 | 1.25 | 10 | 30 | 30 | 35 |
| 13-0080000600LB | 8.00 | 6.00 | 1.00 | 8 | 24 | 35 | 29 |
| 13-0100000650LB | 10.00 | 6.50 | 1.75 | 11 | 33 | 35 | 60 |
| 13-0100000700LB | 10.00 | 7.00 | 1.50 | 9 | 27 | 50 | 53 |
| 13-0100000800LB | 10.00 | 8.00 | 1.00 | 9 | 27 | 50 | 37 |
| 13-0120000800LB | 12.00 | 8.00 | 2.00 | 10 | 30 | 40 | 83 |
| 13-0120000900LB | 12.00 | 9.00 | 1.50 | 7 | 21 | 45 | 65 |
| 13-0120001000LB | 12.00 | 10.00 | 1.00 | 7 | 21 | 45 | 46 |
| 13-0140000950LB | 14.00 | 9.50 | 2.25 | 8 | 24 | 45 | 110 |
| 13-0140001000LB | 14.00 | 10.00 | 2.00 | 8 | 24 | 45 | 99 |
| 13-0160001100LB | 16.00 | 11.00 | 2.50 | 10 | 30 | 50 | 140 |
| 13-0160001200LB | 16.00 | 12.00 | 2.00 | 10 | 30 | 50 | 116 |

Imperial size

| Item Code |  OD | |  ID | |  WT | |  WP |  BP |  BR/r | |  W |
|-----------------|--|------|--|-----|--|------|--|--|--|----|---|
| | inch | mm | inch | mm | inch | mm | bar | bar | inch | mm | g/m |
| 13-0040000240LB | 5/32 | 4.0 | 0.094 | 2.4 | 0.031 | 0.79 | 10 | 30 | 3/8 | 10 | 11 |
| 13-0048000270LB | 3/16 | 4.8 | 0.107 | 2.7 | 0.040 | 1.02 | 11 | 34 | 3/8 | 10 | 16 |
| 13-0064000410LB | 1/4 | 6.4 | 0.160 | 4.1 | 0.045 | 1.14 | 10 | 30 | 1/2 | 13 | 25 |
| 13-0079000470LB | 5/16 | 7.9 | 0.187 | 4.7 | 0.062 | 1.57 | 11 | 34 | 1/2 | 13 | 42 |
| 13-0095000640LB | 3/8 | 9.5 | 0.250 | 6.4 | 0.062 | 1.57 | 9 | 27 | 1 | 25 | 51 |
| 13-0127000810LB | 1/2 | 12.7 | 0.320 | 8.1 | 0.090 | 2.29 | 10 | 31 | 1 1/8 | 29 | 99 |
| 13-0143000950LB | 9/16 | 14.3 | 0.375 | 9.5 | 0.094 | 2.39 | 9 | 27 | 2 | 51 | 118 |

Tolerance

| Tube O.D Range | Tube O.D Tolerance |
|----------------|--------------------|
| 4 to 8 mm | +0.10 / -0.10 |
| 10 to 16 mm | +0.15 / -0.15 |

Packaging

| Tube coil quantity (m) | Reel quantity (m) |
|------------------------|-------------------|
| 50 | 100 |
| 100 | |
| 200 | |



Temperature Range: Continuous: -20°C to +70°C

SPATTER TUBES

- Properties**
- Weld Spatter Resistant
 - Excellent Abrasion Resistant
 - Extreme Flexibility
 - Compact bend radius









Application Robotic welding application











Note: Also special sizes and colours are available on request

Technical Details

Metric size

| Item Code |  |  |  |  |  |  |  |  |
|-----------------|---|---|---|---|---|---|---|---|
| | Outer cover OD mm | Inner Tube OD mm | Inner Tube ID mm | WT mm | WP bar | BP bar | BR/r mm | W g/m |
| 14-0060000400GY | 8.00 | 6.00 | 4.00 | 1.00 | 10 | 30 | 15 | 50 |
| 14-0080000500GY | 10.00 | 8.00 | 5.00 | 1.50 | 11 | 33 | 20 | 78 |
| 14-0100000650GY | 12.00 | 10.00 | 6.50 | 1.75 | 10 | 30 | 30 | 105 |
| 14-0120000800GY | 14.00 | 12.00 | 8.00 | 2.00 | 9 | 36 | 35 | 137 |

Imperial size

| Item Code |  | |  | |  | |  | |  |  |  | |  |
|-----------------|---|-------|---|-------|---|------|---|------|---|---|---|----|---|
| | inch | mm | inch | mm | inch | mm | inch | mm | psi | psi | inch | mm | g/m |
| 14-0040000240GY | 0.236 | 6.00 | 5/32 | 4.00 | 0.094 | 2.40 | 0.031 | 0.80 | 176 | 528 | 3/8 | 10 | 31 |
| 14-0064000410GY | 0.331 | 8.40 | 1/4 | 6.40 | 0.160 | 4.10 | 0.045 | 1.15 | 148 | 444 | 1/2 | 13 | 56 |
| 14-0095000640GY | 0.453 | 11.50 | 3/8 | 9.50 | 0.250 | 6.40 | 0.062 | 1.55 | 147 | 441 | 7/8 | 22 | 95 |
| 14-0127000810GY | 0.579 | 14.70 | 1/2 | 12.70 | 0.320 | 8.10 | 0.090 | 2.30 | 140 | 420 | 1 1/8 | 29 | 156 |

Tolerance

| Tube O.D Range | Tube O.D Tolerance |
|----------------|--------------------|
| 4 to 8.4 mm | +0.1 / -0.1 |
| 9 to 15 mm | +0.15 / -0.15 |

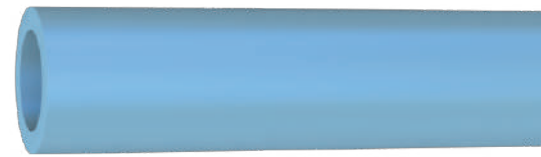
Packaging

| Tube coil quantity (m) | Reel quantity (m) |
|------------------------|-------------------|
| 50 | 300 |
| 100 | 500 |
| 200 | 1000 |



Temperature Range: Continuous: -40°C to +70°C

PTFE TUBE



KEY PROPERTIES OF PTFE:






- Polytetrafluoroethylene (P.T.F.E) has the lowest coefficient of friction of all polymers
- Useful in high temperature applications
- Very good chemical resistance to all common solvents, acids and bases
- PTFE is virtually unaffected by oxygen, ozone and UV light
- Excellent dielectric insulation properties
- The working temperature of PTFE is extremely broad, ranging from 260° C (500° F) to -270° C (-454° F)






Note: We also supply Convoluted tubes, Conductive PTFE Plain and PTFE Conductive Convoluted tubes kindly refer our part nomenclature before ordering. Also special sizes are available on request

4

| Property | | Specification | Unit | Value |
|--------------------|---|--|------------------------|-------------------|
| General | Continuous service temperature | Maximum | ° C ° F | 260 500 |
| | Chemical resistance | | - | Excellent |
| | Specific gravity | D 792 | - | 2.15 |
| Electrical | Dielectric constant | D 150 at 10 ³ Hz D 150 at 10 ⁶ Hz | - - | 2.1 2.1 |
| | Dielectric dissipation factor | D 150 at 10 ³ Hz D 150 at 10 ⁶ Hz | - - | 0.0002 0.0002 |
| | Dielectric strength (short term) 10 mils film | D 149 | Volt / mil | >1 400 |
| | Volume resistivity | D 257 | Ohm-cm | >10 ¹⁸ |
| | Environmental | Water absorption | D 570 | % |
| Weather resistance | | - | - | Excellent |
| Oxygen index | | D 2863 | % | >95 |
| Flammability | | UL 94 | - | V-0 |
| Mechanical | Tensile strength | D 1708, D 638 | psi | 3 500 |
| | Elongation | D 1708, D 638 | % | 300 |
| | Compressive strength | D 695 | psi | 3 500 |
| | Impact strength | D 256 at +23°C | Ft-Lb / in | 3.5 |
| | Flexural Modulus | D 790 at +23°C | psi | 90 000 |
| | Tensile Modulus | D 638 | psi | 80 000 |
| | Hardness | D 2240 | - | D-60 |
| Thermal | Melting point | | ° C ° F | 327 620 |
| | Thermal conductivity | C-177 | BTU / hr / ft2 /°F. in | 1.7 |
| | Deflection temperature 66 psi | D 648 | ° C | 122 |
| | 264 psi | | | 55 |
| | Deflection temperature 66 psi | D 648 | ° F | 252 |
| | 264 psi | | | 131 |






Metric size

| Item Code |  |  |  |  |  |
|-----------------|---|---|---|---|---|
| | ID | OD | WT | BP | W |
| | mm | mm | mm | bar | g/m |
| 18-0040000300NT | 3.00 | 4.00 | 0.50 | 40 | 13 |
| 18-0045000300NT | 3.00 | 4.50 | 0.75 | 56 | 21 |
| 18-0050000300NT | 3.00 | 5.00 | 1.00 | 70 | 30 |
| 18-0045000350NT | 3.50 | 4.50 | 0.50 | 35 | 15 |
| 18-0050000350NT | 3.50 | 5.00 | 0.75 | 49 | 24 |
| 18-0055000350NT | 3.50 | 5.50 | 1.00 | 62 | 34 |
| 18-0050000400NT | 4.00 | 5.00 | 0.50 | 31 | 17 |
| 18-0055000400NT | 4.00 | 5.50 | 0.75 | 44 | 27 |
| 18-0060000400NT | 4.00 | 6.00 | 1.00 | 56 | 38 |
| 18-0070000400NT | 4.00 | 7.00 | 1.50 | 76 | 63 |
| 18-0065000450NT | 4.50 | 6.50 | 1.00 | 51 | 42 |
| 18-0060000500NT | 5.00 | 6.00 | 0.50 | 25 | 21 |
| 18-0065000500NT | 5.00 | 6.50 | 0.75 | 37 | 33 |
| 18-0070000500NT | 5.00 | 7.00 | 1.00 | 47 | 46 |
| 18-0080000500NT | 5.00 | 8.00 | 1.50 | 65 | 74 |
| 18-0090000500NT | 5.00 | 9.00 | 2.00 | 80 | 106 |
| 18-0075000550NT | 5.50 | 7.50 | 1.00 | 43 | 49 |
| 18-0070000600NT | 6.00 | 7.00 | 0.50 | 22 | 25 |
| 18-0080000600NT | 6.00 | 8.00 | 1.00 | 40 | 53 |
| 18-0090000600NT | 6.00 | 9.00 | 1.50 | 56 | 85 |
| 18-0100000600NT | 6.00 | 10.00 | 2.00 | 70 | 122 |
| 18-0080000650NT | 6.50 | 8.00 | 0.75 | 29 | 41 |
| 18-0080000700NT | 7.00 | 8.00 | 0.50 | 19 | 28 |
| 18-0090000700NT | 7.00 | 9.00 | 1.00 | 35 | 61 |
| 18-0100000700NT | 7.00 | 10.00 | 1.50 | 49 | 97 |
| 18-0095000750NT | 7.50 | 9.50 | 1.00 | 33 | 65 |
| 18-0090000800NT | 8.00 | 9.00 | 0.50 | 16 | 32 |
| 18-0095000800NT | 8.00 | 9.50 | 0.75 | 24 | 50 |
| 18-0100000800NT | 8.00 | 10.00 | 1.00 | 31 | 68 |
| 18-0120000800NT | 8.00 | 12.00 | 2.00 | 56 | 152 |
| 18-0105000850NT | 8.50 | 10.50 | 1.00 | 29 | 72 |
| 18-0100000900NT | 9.00 | 10.00 | 0.50 | 15 | 36 |
| 18-0105000900NT | 9.00 | 10.50 | 0.75 | 22 | 56 |
| 18-0110000900NT | 9.00 | 11.00 | 1.00 | 28 | 76 |
| 18-0120000900NT | 9.00 | 12.00 | 1.50 | 40 | 120 |
| 18-0110001000NT | 10.00 | 11.00 | 0.50 | 13 | 40 |
| 18-0120001000NT | 10.00 | 12.00 | 1.00 | 25 | 84 |
| 18-0130001000NT | 10.00 | 13.00 | 1.50 | 37 | 131 |
| 18-0140001000NT | 10.00 | 14.00 | 2.00 | 47 | 182 |
| 18-0150001000NT | 10.00 | 15.00 | 2.50 | 56 | 237 |
| 18-0130001100NT | 11.00 | 13.00 | 1.00 | 23 | 91 |
| 18-0140001200NT | 12.00 | 14.00 | 1.00 | 22 | 99 |
| 18-0150001200NT | 12.00 | 15.00 | 1.50 | 31 | 154 |
| 18-0160001200NT | 12.00 | 16.00 | 2.00 | 40 | 213 |
| 18-0150001300NT | 13.00 | 15.00 | 1.00 | 20 | 106 |
| 18-0160001300NT | 13.00 | 16.00 | 1.50 | 29 | 165 |
| 18-0170001300NT | 13.00 | 17.00 | 2.00 | 37 | 228 |
| 18-0160001400NT | 14.00 | 16.00 | 1.00 | 19 | 114 |
| 18-0170001400NT | 14.00 | 17.00 | 1.50 | 27 | 177 |
| 18-0180001400NT | 14.00 | 18.00 | 2.00 | 35 | 243 |
| 18-0170001500NT | 15.00 | 17.00 | 1.00 | 18 | 122 |
| 18-0180001500NT | 15.00 | 18.00 | 1.50 | 25 | 188 |
| 18-0180001600NT | 16.00 | 18.00 | 1.00 | 16 | 129 |
| 18-0190001600NT | 16.00 | 19.00 | 1.50 | 24 | 199 |
| 18-0200001600NT | 16.00 | 20.00 | 2.00 | 31 | 274 |
| 18-0195001650NT | 16.50 | 19.50 | 1.50 | 23 | 205 |

| Item Code |  ID |  OD |  WT |  BP |  W |
|-----------------|--|--|--|--|---|
| | mm | mm | mm | bar | g/m |
| 18-0200001700NT | 17.00 | 20.00 | 1.50 | 23 | 211 |
| 18-0200001800NT | 18.00 | 20.00 | 1.00 | 15 | 144 |
| 18-0210001800NT | 18.00 | 21.00 | 1.50 | 22 | 222 |
| 18-0220001800NT | 18.00 | 22.00 | 2.00 | 28 | 304 |
| 18-0210001900NT | 19.00 | 21.00 | 1.00 | 14 | 152 |
| 18-0220001900NT | 19.00 | 22.00 | 1.50 | 20 | 234 |

4

Imperial Size

| Item Code |  ID | |  OD | |  WT |  BP |  W |
|-----------------|--|-------|--|-------|--|--|---|
| | inch | mm | inch | mm | inch | bar | g/m |
| 18-0048000320NT | 1/8 | 3.20 | 3/16 | 4.80 | 1/32 | 56 | 24 |
| 18-0064000320NT | 1/8 | 3.20 | 1/4 | 6.40 | 1/16 | 93 | 58 |
| 18-0064000400NT | 5/32 | 4.00 | 1/4 | 6.40 | 3/64 | 65 | 47 |
| 18-0064000480NT | 3/16 | 4.80 | 1/4 | 6.40 | 1/32 | 40 | 34 |
| 18-0079000480NT | 3/16 | 4.80 | 5/16 | 7.90 | 1/16 | 70 | 75 |
| 18-0079000640NT | 1/4 | 6.40 | 5/16 | 7.90 | 1/32 | 31 | 41 |
| 18-0095000640NT | 1/4 | 6.40 | 3/8 | 9.50 | 1/16 | 56 | 94 |
| 18-0127000640NT | 1/4 | 6.40 | 1/2 | 12.70 | 1/8 | 93 | 229 |
| 18-0095000790NT | 5/16 | 7.90 | 3/8 | 9.50 | 1/16 | 25 | 53 |
| 18-0111000950NT | 3/8 | 9.50 | 7/16 | 11.10 | 1/32 | 21 | 63 |
| 18-0127000950NT | 3/8 | 9.50 | 1/2 | 12.70 | 1/16 | 40 | 135 |
| 18-0127001110NT | 7/16 | 11.10 | 1/2 | 12.70 | 1/32 | 19 | 72 |
| 18-0143001270NT | 1/2 | 12.70 | 9/16 | 14.30 | 1/32 | 16 | 82 |
| 18-0159001270NT | 1/2 | 12.70 | 5/8 | 15.90 | 1/16 | 31 | 174 |
| 18-0159001430NT | 9/16 | 14.30 | 5/8 | 15.90 | 1/32 | 15 | 92 |
| 18-0175001590NT | 5/8 | 15.90 | 11/16 | 17.50 | 1/32 | 13 | 102 |
| 18-0191001590NT | 5/8 | 15.90 | 3/4 | 19.10 | 1/16 | 25 | 213 |
| 18-0191001750NT | 11/16 | 17.50 | 3/4 | 19.10 | 1/32 | 12 | 111 |
| 18-0222301910NT | 3/4 | 19.10 | 7/8 | 22.23 | 1/16 | 22 | 246 |

Note: We also supply Convuluted tubes, Conductive PTFE Plain and PTFE Conductive Convuluted tubes kindly refer our part nomenclature before ordering. Also special sizes are available on request

FEP (FLUORINATED ETHYLENE PROPYLENE) TUBING









- Properties**
- General: Transparent, Low flammability, Anti sticking nature, High thermal stability, Low permeability, Weldable
 - Mechanical: Low coefficient of friction
 - Chemical: Resistance to virtually all chemicals
 - Weather: High UV stability
 - Electrical: Low dielectric constant
- Application**
- Oil and Gas, Medical engineering, Food and beverage industry, Automated Painting technology, Automotive, aerial and spatial techniques, Electrical engineering

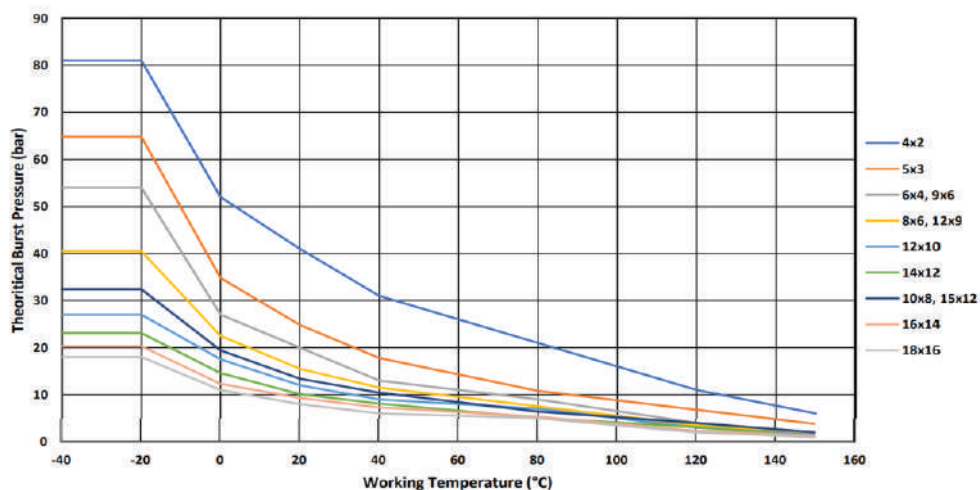
Note: Also special sizes are available upon request

 **Temperature Range :** Continuous: -40°C to +205°C

Metric size Technical Details

| Item Code |  OD |  ID |  WT |  BP |  BR/r |  W |
|-----------------|--|--|--|--|--|---|
| | mm | mm | mm | bar | mm | g/m |
| 17-0040000200NT | 4 | 2 | 1 | 81 | 16 | 20 |
| 17-0050000300NT | 5 | 3 | 1 | 64.8 | 25 | 27 |
| 17-0060000400NT | 6 | 4 | 1 | 54 | 36 | 33.5 |
| 17-0080000600NT | 8 | 6 | 1 | 40.5 | 64 | 46.5 |
| 17-0090000600NT | 9 | 6 | 1.5 | 54 | 54 | 75 |
| 17-0100000800NT | 10 | 8 | 1 | 32.4 | 100 | 60 |
| 17-0120000900NT | 12 | 9 | 1.5 | 40.5 | 96 | 105 |
| 17-0120001000NT | 12 | 10 | 1 | 27 | 144 | 73 |
| 17-0140001200NT | 14 | 12 | 1 | 23.1 | 196 | 86.5 |
| 17-0150001200NT | 15 | 12 | 1.5 | 32.4 | 150 | 135 |
| 17-0160001400NT | 16 | 14 | 1 | 20.3 | 256 | 100 |
| 17-0180001600NT | 18 | 16 | 1 | 18 | 324 | 113 |

Burst Pressure Characteristic Curve



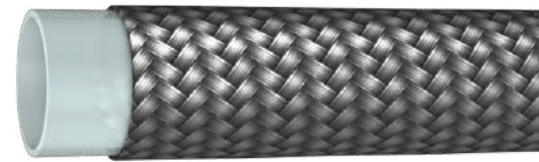
Tolerance

| Tube O.D Range | Tube O.D Tolerance |
|----------------|--------------------|
| 4 to 8 mm | +0.15 / -0.15 |
| 10 to 18 mm | +0.20 / -0.20 |

| Tube coil quantity (m) |
|------------------------|
| 50 |
| 100 |

PH179 - R14

Applicable Standard: SAE J517 - 100R14



Construction

Inner tube Sintered tube of polytetrafluoroethylene (P.T.F.E)

Reinforcement Single braid of 304 series of stainless steel wire

Application P.T.F.E hose has an excellent temperature characteristics both in high and low temperature, Excellent chemical resistance, non contamination properties, low coefficient of friction and resists deterioration. Therefore the hose is used generally in applications where all or one of the above properties is the main criteria

Note: Double braided available for higher performance, please check our part # PH381

| Item Code | Dash Size | WT | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|------|-------|-------|-------|-------|-------|-----|--------|-----|------|-----|-----|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH179-3 | -3 | 1.00 | 1/8 | 3.35 | 0.252 | 6.4 | 3,260 | 225 | 13,040 | 900 | 1.6 | 40 | 65 |
| PH179-4 | -4 | 0.75 | 3/16 | 4.83 | 0.300 | 7.6 | 3,000 | 210 | 12,000 | 840 | 2.0 | 50 | 84 |
| PH179-5 | -5 | 0.65 | 1/4 | 6.48 | 0.380 | 9.7 | 3,000 | 210 | 12,000 | 840 | 3.0 | 75 | 121 |
| PH179-6 | -6 | 0.75 | 5/16 | 8.00 | 0.440 | 11.2 | 2,500 | 175 | 10,000 | 700 | 4.0 | 100 | 163 |
| PH179-7 | -7 | 0.75 | 3/8 | 9.65 | 0.495 | 12.6 | 2,400 | 165 | 9,600 | 660 | 5.0 | 125 | 170 |
| PH179-8 | -8 | 0.75 | 13/32 | 10.41 | 0.543 | 13.8 | 2,000 | 140 | 8,000 | 560 | 5.3 | 135 | 185 |
| PH179-10 | -10 | 0.75 | 1/2 | 12.83 | 0.650 | 16.5 | 1,750 | 120 | 7,000 | 480 | 6.5 | 165 | 234 |
| PH179-12 | -12 | 0.90 | 5/8 | 16.00 | 0.765 | 19.43 | 1,270 | 88 | 5,080 | 352 | 8.0 | 200 | 318 |
| PH179-14 | -14 | 0.90 | 3/4 | 19.18 | 0.900 | 22.9 | 1,100 | 75 | 4,400 | 300 | 9.1 | 230 | 395 |
| PH179-16 | -16 | 1.00 | 7/8 | 22.23 | 1.030 | 26.2 | 900 | 62 | 3,600 | 248 | 9.1 | 230 | 462 |
| PH179-18 | -18 | 1.05 | 1 | 25.53 | 1.148 | 29.15 | 900 | 62 | 3,600 | 248 | 11.8 | 300 | 528 |
| PH179-20 | -20 | 1.20 | 1.1/8 | 28.58 | 1.293 | 32.85 | 630 | 44 | 2,520 | 176 | 16.1 | 410 | 585 |

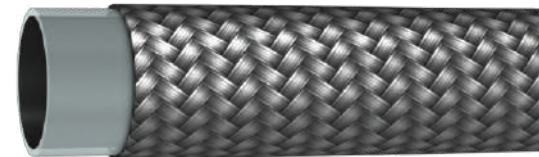


Temperature Range: Continuous: -54°C to +260°C

5

PH311- (ELECTRICAL CONDUCTIVE) - R14

Applicable Standard: SAE J517 - 100R14



Construction

Inner tube Sintered tube of polytetrafluoroethylene (P.T.F.E) (Electrical Conductive)

Reinforcement Single braid of 304 series of stainless steel wire

Application P.T.F.E hose has an excellent temperature characteristics both in high and low temperature, Excellent chemical resistance, non contamination properties, low coefficient of friction and resists deterioration. Therefore the hose is used generally in applications where all or one of the above properties is the main criteria

Note: Double braided available for higher performance, please check our part # PH383

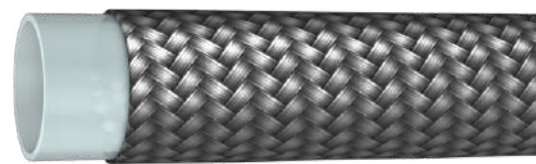
| Item Code | Dash Size | WT | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|------|-------|-------|-------|-------|-------|-------|--------|------|------|-----|-----|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH311-3 | -3 | 1.00 | 1/8 | 3.35 | 0.252 | 6.4 | 3,260 | 225 | 13,040 | 900 | 1.6 | 40 | 65 |
| PH311-4 | -4 | 0.75 | 3/16 | 4.83 | 0.300 | 7.6 | 3,000 | 210 | 12,000 | 840 | 2.0 | 50 | 84 |
| PH311-5 | -5 | 0.65 | 1/4 | 6.48 | 0.380 | 9.7 | 3,000 | 210 | 12,000 | 840 | 3.0 | 75 | 121 |
| PH311-6 | -6 | 0.75 | 5/16 | 8.00 | 0.440 | 11.2 | 2,500 | 175 | 10,000 | 700 | 4.0 | 100 | 163 |
| PH311-7 | -7 | 0.75 | 3/8 | 9.65 | 0.495 | 12.6 | 2,400 | 165 | 9,600 | 660 | 5.0 | 125 | 170 |
| PH311-8 | -8 | 0.75 | 13/32 | 10.41 | 0.543 | 13.8 | 2,000 | 140 | 8,000 | 560 | 5.3 | 135 | 185 |
| PH311-10 | -10 | 0.75 | 1/2 | 12.83 | 0.650 | 16.5 | 1,750 | 120 | 7,000 | 480 | 6.5 | 165 | 234 |
| PH311-12 | -12 | 0.90 | 5/8 | 16.00 | 0.780 | 19.43 | 88 | 5,080 | 352 | 8.0 | 200 | 318 | |
| PH311-14 | -14 | 0.90 | 3/4 | 19.18 | 0.900 | 22.9 | 1,100 | 75 | 4,400 | 300 | 9.1 | 230 | 395 |
| PH311-16 | -16 | 1.00 | 7/8 | 22.23 | 1.030 | 26.2 | 900 | 62 | 3,600 | 248 | 9.1 | 230 | 462 |
| PH311-18 | -18 | 1.05 | 1 | 25.53 | 1.148 | 29.15 | 900 | 62 | 3,600 | 248 | 11.8 | 300 | 528 |
| PH311-20 | -20 | 1.20 | 1.1/8 | 28.58 | 1.300 | 32.85 | 44 | 2,520 | 176 | 16.1 | 410 | 585 | |



Temperature Range: Continuous: -54°C to +260°C

PH313 - R14 INCREASED WALL

Applicable Standard: SAE J517 - 100R14



Construction

Inner tube Sintered tube of polytetrafluoroethylene (P.T.F.E)

Reinforcement Single or Double braids of 304 series of stainless steel wire

Application P.T.F.E hose has an excellent temperature characteristics both in high and low temperature, Excellent chemical resistance, non contamination properties, low coefficient of friction and resists deterioration. Therefore the hose is used generally in applications where all or one of the above properties is the main criteria.

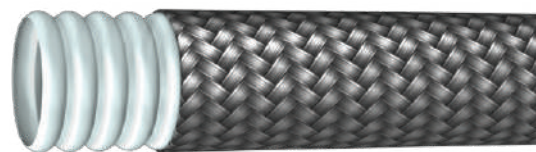
Note: Available in electrical conductive version and our part # shall be PH314

| Item Code | Dash Size | WT | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|------|------|------|-------|------|-------|-----|--------|-----|------|-----|-----|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH313-4 | -4 | 1.00 | 3/16 | 4.8 | 0.320 | 8.1 | 3,000 | 210 | 12,000 | 840 | 51 | 2.0 | 95 |
| PH313-5 | -5 | 1.00 | 1/4 | 6.4 | 0.390 | 9.9 | 2,610 | 180 | 10,440 | 720 | 75 | 3.0 | 127 |
| PH313-6 | -6 | 1.00 | 5/16 | 8.0 | 0.465 | 11.8 | 2,538 | 175 | 10,150 | 700 | 102 | 4.0 | 155 |
| PH313-7 | -7 | 1.00 | 3/8 | 9.5 | 0.510 | 13.0 | 2,400 | 165 | 9,600 | 660 | 125 | 4.9 | 177 |
| PH313-10 | -10 | 1.00 | 1/2 | 12.7 | 0.650 | 16.5 | 1,750 | 120 | 7,000 | 480 | 155 | 6.1 | 245 |
| PH313-12 | -12 | 1.10 | 5/8 | 16.0 | 0.790 | 20.1 | 1,270 | 88 | 5,080 | 352 | 165 | 6.5 | 332 |
| PH313-14 | -14 | 1.10 | 3/4 | 19.0 | 0.925 | 23.5 | 1,000 | 70 | 4,000 | 280 | 215 | 8.5 | 450 |
| PH313-16 | -16 | 1.20 | 7/8 | 22.0 | 1.110 | 28.2 | 1,250 | 86 | 5,000 | 345 | 187 | 7.4 | 715 |



Temperature Range: Continuous: -54°C to +260°C

PH370 - PTFE - CONVOLUTED HOSE



Construction

Inner tube Helically convoluted sintered tube of polytetrafluoroethylene (P.T.F.E)

Reinforcement Single braid of 304/316 series of stainless steel wire

Application P.T.F.E hose has an excellent temperature characteristics both in high and low temperature. Excellent chemical resistance, non contamination properties, low coefficient of friction and resists deterioration. Therefore the hose is used generally in applications where all or one of the above properties is the main criteria in automotive, chemical, pharmaceutical & food processing, plastic & rubber molding machines. Also for some applications the tube can also be made conductive to dissipate electro-static charges

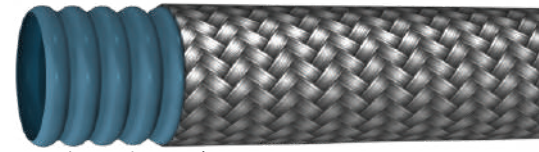
Note: Working and burst pressure are at 20°C Temperature

| Item Code | Dash Size | WT | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|------|-------|-------|-------|------|-------|-----|--------|-----|------|-----|------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH370-04 | -4 | 0.75 | 1/4 | 6.60 | 0.410 | 10.4 | 2,500 | 175 | 10,000 | 700 | 0.8 | 20 | 149 |
| PH370-05 | -5 | 0.75 | 5/16 | 8.18 | 0.490 | 12.4 | 2,300 | 160 | 9,200 | 640 | 0.8 | 20 | 170 |
| PH370-06 | -6 | 0.75 | 3/8 | 9.65 | 0.540 | 13.7 | 1,740 | 120 | 6,960 | 480 | 0.8 | 20 | 182 |
| PH370-08 | -8 | 0.75 | 1/2 | 12.83 | 0.725 | 18.4 | 1,595 | 110 | 6,380 | 440 | 1.0 | 25 | 289 |
| PH370-10 | -10 | 0.80 | 5/8 | 16.00 | 0.827 | 21.0 | 1,450 | 100 | 5,800 | 400 | 2.0 | 50 | 349 |
| PH370-12 | -12 | 0.90 | 3/4 | 19.18 | 1.020 | 25.9 | 1,160 | 80 | 4,640 | 320 | 2.6 | 65 | 494 |
| PH370-14 | -14 | 1.00 | 7/8 | 22.23 | 1.170 | 29.7 | 870 | 60 | 3,480 | 240 | 3.1 | 80 | 565 |
| PH370-16 | -16 | 1.00 | 1 | 25.53 | 1.331 | 33.8 | 800 | 55 | 3,200 | 220 | 3.6 | 90 | 677 |
| PH370-20 | -20 | 1.00 | 1.1/4 | 31.88 | 1.680 | 42.7 | 665 | 45 | 2,660 | 180 | 4.4 | 110 | 891 |
| PH370-24 | -24 | 1.00 | 1.1/2 | 38.23 | 1.890 | 48.0 | 510 | 35 | 2,040 | 140 | 6.0 | 150 | 959 |
| PH370-32 | -32 | 1.10 | 2 | 50.93 | 2.420 | 61.5 | 365 | 25 | 1,460 | 100 | 8.0 | 200 | 1309 |
| PH370-48 | -48 | 1.30 | 3 | 76.00 | 3.504 | 89.0 | 236 | 16 | 945 | 65 | 12.2 | 310 | 1550 |



Temperature Range: Continuous: -54°C to +260°C

PH371 - PTFE - ELECTRICAL CONDUCTIVE CONVOLUTED HOSE



Construction

Inner tube Helically convoluted sintered tube of polytetrafluoroethylene (P.T.F.E) (Electrical Conductive)

Reinforcement Single braid of 304/316 series of stainless steel wire

Application P.T.F.E hose has an excellent temperature characteristics both in high and low temperature. Excellent chemical resistance, non contamination properties, low coefficient of friction and resists deterioration. Therefore the hose is used generally in applications where all or one of the above properties is the main criteria in automotive, chemical, pharmaceutical & food processing, plastic & rubber molding machines. Also for some applications the tube can also be made conductive to dissipate electro - static charges

| Item Code | Dash Size | WT | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|------|-------|-------|-------|------|-------|-----|--------|-----|------|-----|------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH371-04 | -4 | 0.75 | 1/4 | 6.60 | 0.410 | 10.4 | 2,500 | 175 | 10,000 | 700 | 0.8 | 20 | 149 |
| PH371-05 | -5 | 0.75 | 5/16 | 8.18 | 0.490 | 12.4 | 2,300 | 160 | 9,200 | 640 | 0.8 | 20 | 170 |
| PH371-06 | -6 | 0.75 | 3/8 | 9.65 | 0.540 | 13.7 | 1,740 | 120 | 6,960 | 480 | 0.8 | 20 | 182 |
| PH371-08 | -8 | 0.75 | 1/2 | 12.83 | 0.725 | 18.4 | 1,595 | 110 | 6,380 | 440 | 1.0 | 25 | 289 |
| PH371-10 | -10 | 0.80 | 5/8 | 16.00 | 0.827 | 21.0 | 1,450 | 100 | 5,800 | 400 | 2.0 | 50 | 349 |
| PH371-12 | -12 | 0.90 | 3/4 | 19.18 | 1.020 | 25.9 | 1,160 | 80 | 4,640 | 320 | 2.6 | 65 | 494 |
| PH371-14 | -14 | 1.00 | 7/8 | 22.23 | 1.170 | 29.7 | 870 | 60 | 3,480 | 240 | 3.1 | 80 | 565 |
| PH371-16 | -16 | 1.00 | 1 | 25.53 | 1.331 | 33.8 | 800 | 55 | 3,200 | 220 | 3.6 | 90 | 677 |
| PH371-20 | -20 | 1.00 | 1.1/4 | 31.88 | 1.680 | 42.7 | 665 | 45 | 2,660 | 180 | 4.4 | 110 | 891 |
| PH371-24 | -24 | 1.00 | 1.1/2 | 38.23 | 1.890 | 48.0 | 510 | 35 | 2,040 | 140 | 6.0 | 150 | 959 |
| PH371-32 | -32 | 1.10 | 2 | 50.93 | 2.420 | 61.5 | 365 | 25 | 1,460 | 100 | 8.0 | 200 | 1309 |
| PH371-48 | -48 | 1.30 | 3 | 76.00 | 3.504 | 89.0 | 235 | 16 | 945 | 65 | 12.2 | 310 | 1309 |



Temperature Range: Continuous: -54°C to +260°C

PH381 - R14 2W

Applicable Standard: Exceeds SAE J517 - 100R14 pressure requirements



Construction

Inner tube Sintered tube of polytetrafluoroethylene (P.T.F.E)

Reinforcement Double braids of 304 series of stainless steel wire

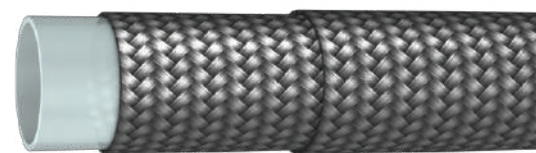
Application P.T.F.E hose has an excellent temperature characteristics both in high and low temperature, Excellent chemical resistance, non contamination properties, low coefficient of friction and resists deterioration. Therefore the hose is used generally in applications where all or one of the above properties is the main criteria

| Item Code | Dash Size | WT | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|------|-------|------|-------|------|-------|-----|--------|-------|------|-----|-----|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH381-3 | -3 | 1.00 | 1/8 | 3.0 | 0.300 | 7.6 | 4,495 | 310 | 17,980 | 1,240 | 2.0 | 50 | 140 |
| PH381-4 | -4 | 0.75 | 3/16 | 4.8 | 0.360 | 9.1 | 3,770 | 260 | 15,080 | 1,040 | 2.6 | 65 | 187 |
| PH381-5 | -5 | 0.65 | 1/4 | 6.4 | 0.410 | 10.4 | 3,600 | 250 | 14,400 | 1,000 | 3.8 | 95 | 225 |
| PH381-6 | -6 | 0.75 | 5/16 | 8.0 | 0.510 | 13.0 | 3,500 | 245 | 14,000 | 980 | 5.0 | 125 | 287 |
| PH381-7 | -7 | 0.75 | 3/8 | 9.5 | 0.565 | 14.4 | 3,330 | 230 | 13,320 | 920 | 6.4 | 160 | 336 |
| PH381-8 | -8 | 0.75 | 13/32 | 10.5 | 0.595 | 15.1 | 2,750 | 190 | 11,000 | 760 | 7.0 | 175 | 395 |
| PH381-10 | -10 | 0.75 | 1/2 | 12.7 | 0.700 | 17.8 | 2,300 | 160 | 9,200 | 640 | 8.4 | 210 | 444 |
| PH381-12 | -12 | 0.90 | 5/8 | 16.0 | 0.855 | 21.7 | 1,600 | 110 | 6,400 | 440 | 10.8 | 270 | 583 |
| PH381-14 | -14 | 0.90 | 3/4 | 19.0 | 0.970 | 24.6 | 1,380 | 95 | 5,520 | 380 | 12.0 | 300 | 742 |
| PH381-16 | -16 | 1.00 | 7/8 | 22.2 | 1.090 | 27.7 | 1,160 | 80 | 4,650 | 320 | 12.4 | 310 | 810 |
| PH381-18 | -18 | 1.05 | 1 | 25.4 | 1.220 | 31.0 | 1,080 | 75 | 4,320 | 300 | 16.8 | 420 | 920 |
| PH381-20 | -20 | 1.20 | 1.1/8 | 29.0 | 1.400 | 35.6 | 870 | 60 | 3,480 | 240 | 22.0 | 550 | 990 |



Temperature Range: Continuous: -54°C to +260°C

PH382 - PTFE GAS HOSE



Construction

Inner tube Special quality of Sintered tube of polytetrafluoroethylene (P.T.F.E)

Reinforcement Double braids of 304 series of stainless steel wire

Application P.T.F.E hose has an excellent temperature characteristics both in high and low temperature. Excellent chemical resistance, non contamination properties, low coefficient of friction and resists deterioration. Therefore the hose is used generally in applications where all or one of the above properties is the main criteria Transport of cryogenic gases at high pressures

| Item Code | Dash Size | WT | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|------|------|------|-------|------|-------|-----|--------|-------|------|-----|-----|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH382-04 | -4 | 1.00 | 1/4 | 6.4 | 0.470 | 11.9 | 5,300 | 365 | 15,900 | 1,095 | 1.6 | 40 | 236 |
| PH382-05 | -5 | 1.00 | 5/16 | 8.0 | 0.540 | 13.7 | 4,560 | 315 | 13,680 | 945 | 1.8 | 45 | 301 |
| PH382-06 | -6 | 1.00 | 3/8 | 9.5 | 0.580 | 14.7 | 4,350 | 300 | 13,050 | 900 | 2.6 | 65 | 353 |
| PH382-08 | -8 | 1.00 | 1/2 | 12.7 | 0.730 | 18.5 | 3,840 | 265 | 11,520 | 795 | 3.0 | 75 | 466 |
| PH382-10 | -10 | 1.10 | 5/8 | 16.0 | 0.880 | 22.4 | 3,400 | 235 | 10,200 | 705 | 4.5 | 115 | 612 |
| PH382-12 | -12 | 1.25 | 3/4 | 19.0 | 1.030 | 26.2 | 2,900 | 200 | 8,700 | 600 | 9.4 | 240 | 779 |
| PH382-16 | -16 | 1.40 | 1 | 25.4 | 1.260 | 32.0 | 2,200 | 150 | 6,600 | 450 | 12.6 | 320 | 966 |



Temperature Range: Continuous: -54°C to +204°C

PH765 - MEDIUM PRESSURE FLUORO-COMP HOSE



Construction

Inner tube Polytetrafluoroethylene (PTFE) - Conductive

Reinforcement One or two braids of Fiber Glass Yarn

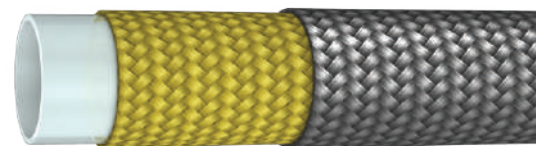
Application P.T.F.E hose has an excellent temperature characteristics both in high and low temperature, Excellent chemical resistance, non contamination properties, low coefficient of friction and resists deterioration. Combination of the fiberglass outer braid and PTFE liner, make the hose essentially non-flammable. Ultimate fuel compatibility and Formable.

Note: Special colours available on request

| Item Code | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|------|-------|-------|-------|-----|------|-------|-----|------|-----|-------|
| | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH765-04 | 1/4 | 6.40 | 0.428 | 10.87 | 800 | 54.0 | 3,200 | 216 | 2.8 | 70 | 115.0 |
| PH765-05 | 5/16 | 8.00 | 0.499 | 12.68 | 800 | 54.0 | 3,200 | 216 | 3.0 | 76 | 130.0 |
| PH765-06 | 3/8 | 9.53 | 0.605 | 15.37 | 800 | 54.0 | 3,200 | 216 | 3.3 | 83 | 165.0 |
| PH765-07 | 7/16 | 10.90 | 0.663 | 16.84 | 800 | 54.0 | 3,200 | 216 | 3.8 | 96 | 175.0 |
| PH765-08 | 1/2 | 13.00 | 0.769 | 19.53 | 800 | 54.0 | 3,200 | 216 | 5.3 | 134 | 185.0 |

Temperature Range: Continuous: -54°C to +260°C

PH775 - GAS HOSE - ARAMID



Construction

Inner tube Sintered tube of polytetrafluoroethylene (P.T.F.E)

Reinforcement One or more braids of aramid fiber with one braid of 304 stainless steel wire. Thicker wall in PTFE core guarantees minimum diffusion and making ideal for gas applications

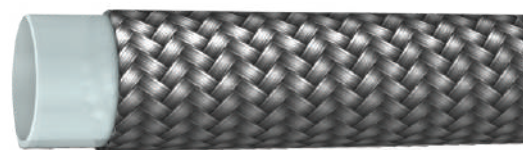
Application Very high pressure gas lines

| Item Code | Dash Size | WT | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|------|------|------|-------|------|-------|-----|--------|-------|------|----|-----|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH775-04 | -4 | 1.00 | 1/4 | 6.35 | 0.485 | 12.3 | 6,018 | 415 | 24,070 | 1,660 | 2.0 | 51 | 205 |
| PH775-06 | -6 | 1.00 | 3/8 | 9.65 | 0.620 | 15.7 | 5,075 | 350 | 20,300 | 1,400 | 2.8 | 70 | 252 |



Temperature Range: Continuous: -54°C to +260°C

PH776 - GAS HOSE - 1W



Construction

Inner tube Sintered tube of polytetrafluoroethylene (P.T.F.E)

Reinforcement Single braid of 304 Stainless steel wire. Thicker wall in PTFE core guarantees minimum diffusion and making ideal for gas applications

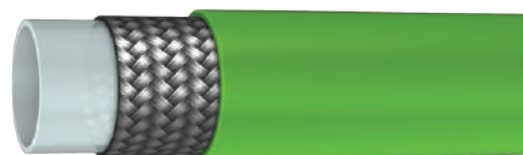
Application High pressure gas lines like gas cylinders, breathing apparatus and aerosol charging lines.

| Item Code | Dash Size | WT | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|------|-------|-------|-------|------|------|-----|--------|-----|------|-----|-----|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH776-02 | -2 | 1.00 | 1/8 | 3.35 | 0.255 | 6.5 | 3379 | 233 | 13,514 | 932 | 1.5 | 38 | 65 |
| PH776-03 | -3 | 1.00 | 3/16 | 4.83 | 0.340 | 8.6 | 3002 | 207 | 11,992 | 827 | 2.0 | 51 | 90 |
| PH776-04 | -4 | 1.00 | 1/4 | 6.35 | 0.390 | 9.9 | 2755 | 190 | 11,020 | 760 | 2.5 | 64 | 140 |
| PH776-05 | -5 | 1.00 | 5/16 | 8.03 | 0.470 | 11.9 | 2465 | 170 | 9,860 | 680 | 3.0 | 76 | 168 |
| PH776-06 | -6 | 1.00 | 3/8 | 9.65 | 0.520 | 13.2 | 2248 | 155 | 8,990 | 620 | 3.5 | 89 | 200 |
| PH776-07 | -7 | 1.00 | 13/32 | 10.36 | 0.620 | 15.7 | 2030 | 140 | 8,120 | 560 | 4.0 | 102 | 210 |
| PH776-08 | -8 | 1.00 | 1/2 | 12.70 | 0.660 | 16.8 | 1813 | 125 | 7,250 | 500 | 5.1 | 130 | 265 |



Temperature Range: Continuous: -54°C to +260°C

PH777 - BRAKE FLUID HOSE



Construction

Inner tube Sintered tube of polytetrafluoroethylene (P.T.F.E)

Reinforcement Single braid of 304 series of stainless steel wire

Cover PVC / PU (Polyurethane) neon green

Application For braking systems in mountain bikes and motorcycles

Note: Special colours available on request

| em Code | Dash Size | WT | ID | | OD | | WP | | BP | | BR/r | | W |
|----------|-----------|------|------|------|-------|------|------|-----|--------|-----|------|----|-----|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH777-02 | -2 | 0.80 | 1/8 | 3.50 | 0.287 | 7.3 | 4655 | 321 | 14,007 | 966 | 1.5 | 38 | 93 |
| PH777-03 | -3 | 0.76 | 3/16 | 4.90 | 0.345 | 8.8 | 4000 | 276 | 12,006 | 828 | 2.0 | 51 | 122 |
| PH777-04 | -4 | 0.76 | 1/4 | 6.35 | 0.392 | 10.0 | 2973 | 205 | 8,918 | 615 | 2.8 | 70 | 164 |



Temperature Range: Continuous: -54°C to +260°C

PH778 - NITROGEN GAS HOSE



Construction

Inner tube Sintered tube of polytetrafluoroethylene (P.T.F.E)

Reinforcement Double braids of 316L Stainless steel wire

Cover Neoprene, Black

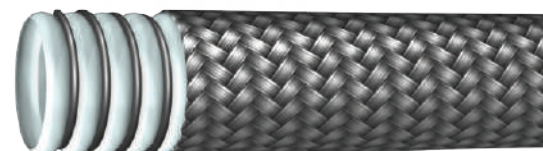
Application Off shore nitrogen gas transfer lines

Note: Special colours available on request

| Item Code | Dash Size | WT | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|------|------|-------|-------|------|------|-----|--------|------|------|-----|------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | |
| PH778-04 | -4 | 1.00 | 1/4 | 6.35 | 0.535 | 13.6 | 5293 | 365 | 15,878 | 1095 | 2.6 | 65 | 310 |
| PH778-06 | -6 | 1.00 | 3/8 | 9.65 | 0.645 | 16.4 | 4133 | 285 | 12,398 | 855 | 3.5 | 90 | 401 |
| PH778-08 | -8 | 1.10 | 1/2 | 12.70 | 0.790 | 20.1 | 3480 | 240 | 10,440 | 720 | 5.1 | 130 | 522 |
| PH778-10 | -10 | 1.20 | 5/8 | 15.88 | 0.950 | 24.1 | 3045 | 210 | 9,135 | 630 | 6.9 | 175 | 687 |
| PH778-12 | -12 | 1.20 | 3/4 | 19.05 | 1.120 | 28.4 | 2610 | 180 | 7,830 | 540 | 7.9 | 200 | 885 |
| PH778-16 | -16 | 1.25 | 1 | 25.40 | 1.320 | 33.5 | 1958 | 135 | 5,873 | 405 | 9.8 | 250 | 1042 |

Temperature Range: Continuous: -54°C to +260°C

PH782 - CONVOLUTED PTFE HOSE WITH HELIX WIRE AND STAINLESS STEEL STANDARD WALL



Construction

Inner tube Helically convoluted sintered tube of polytetrafluoroethylene (P.T.F.E) External AISI 304 Wire Support

Reinforcement Single braid of 304 of stainless steel wire

Application High temperature steam lines. Very high vacuum lines

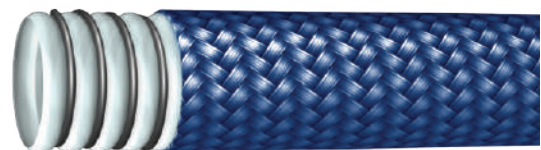
Note: Available in medium wall version and our part # shall be PH792

| Item Code | Dash Size | WT | ID | | OD | | WP | | V | BP | | BR/r | | W |
|-----------|-----------|------|-------|-------|-------|------|-------|-----|-----|-------|-----|------|------|------|
| | | | inch | mm | inch | mm | psi | bar | | mbar | psi | bar | inch | |
| PH782-06 | -6 | 0.75 | 3/8 | 9.65 | 0.590 | 15.0 | 1,305 | 90 | 899 | 5,220 | 360 | 1.4 | 35 | 208 |
| PH782-08 | -8 | 0.75 | 1/2 | 12.83 | 0.770 | 19.6 | 1,160 | 80 | 899 | 4,640 | 320 | 1.6 | 40 | 329 |
| PH782-10 | -10 | 0.80 | 5/8 | 16.00 | 0.857 | 21.8 | 1,088 | 75 | 899 | 4,350 | 300 | 1.8 | 45 | 423 |
| PH782-12 | -12 | 0.90 | 3/4 | 19.18 | 1.080 | 27.4 | 870 | 60 | 899 | 4,205 | 290 | 2.2 | 55 | 548 |
| PH782-16 | -16 | 1.00 | 1 | 25.53 | 1.370 | 34.8 | 580 | 40 | 899 | 3,045 | 210 | 2.4 | 60 | 703 |
| PH782-20 | -20 | 1.00 | 1.1/4 | 32.00 | 1.730 | 43.9 | 580 | 40 | 899 | 3,045 | 210 | 3.1 | 80 | 911 |
| PH782-24 | -24 | 1.00 | 1.1/2 | 38.50 | 1.940 | 49.3 | 508 | 35 | 899 | 2,538 | 175 | 3.9 | 100 | 1311 |
| PH782-32 | -32 | 1.10 | 2 | 51.00 | 2.470 | 62.7 | 363 | 25 | 899 | 1,958 | 135 | 4.9 | 125 | 1655 |



Temperature Range: Continuous: -54°C to +260°C

PH783 - CONVOLUTED PTFE HOSE WITH HELIX WIRE AND POLYPROPYLENE YARN STANDARD WALL



Construction

Inner tube Helically convoluted sintered tube of polytetrafluoroethylene (P.T.F.E)
External AISI 304 Wire Support

Reinforcement Single braid of polypropylene yarn

Application High temperature lines where vibrations and frequent handling are involved

| Other options |
|---|
| PH793 : Medium wall version |
| PH784 : PVDF yarn braid |
| PH794 : PVDF yarn braid & medium wall version |

| Item Code | Dash Size | WT | ID | | OD | | WP | | V | BP | | BR/r | | W |
|-----------|-----------|------|-------|-------|-------|------|-----|-----|-----|-------|-----|------|------|------|
| | | | inch | mm | inch | mm | psi | bar | | mbar | psi | bar | inch | |
| PH783-08 | -8 | 0.75 | 1/2 | 12.70 | 0.866 | 22.0 | 290 | 20 | 899 | 1,160 | 80 | 1.3 | 32 | 361 |
| PH783-10 | -10 | 0.80 | 5/8 | 15.88 | 1.063 | 27.0 | 218 | 15 | 899 | 870 | 60 | 1.6 | 40 | 426 |
| PH783-12 | -12 | 0.90 | 3/4 | 19.05 | 1.252 | 31.8 | 218 | 15 | 899 | 870 | 60 | 2.0 | 50 | 548 |
| PH783-16 | -16 | 1.00 | 1 | 25.40 | 1.472 | 37.4 | 218 | 15 | 899 | 870 | 60 | 2.4 | 60 | 599 |
| PH783-20 | -20 | 1.00 | 1.1/4 | 31.75 | 1.776 | 45.1 | 145 | 10 | 899 | 580 | 40 | 3.1 | 80 | 830 |
| PH783-24 | -24 | 1.00 | 1.1/2 | 38.10 | 1.988 | 50.5 | 145 | 10 | 899 | 580 | 40 | 3.9 | 100 | 1162 |
| PH783-32 | -32 | 1.10 | 2 | 50.80 | 2.500 | 63.5 | 145 | 10 | 899 | 580 | 40 | 4.9 | 125 | 1433 |



Temperature Range: Continuous: -54°C to +180°C

5

PH785 - CONVOLUTED PTFE HOSE WITH POLYPROPYLENE YARN - STANDARD WALL



Construction

Inner tube Helically convoluted sintered tube of polytetrafluoroethylene (P.T.F.E)

Reinforcement Single braid of polypropylene yarn

Application High temperature lines where vibrations and frequent handling are involved. Reduced weight makes it suitable for easy handling

| Other options |
|---|
| PH795 : Medium wall version |
| PH786 : PVDF yarn braid |
| PH796 : PVDF yarn braid & medium wall version |

| Item Code | Dash Size | WT | ID | | OD | | WP | | V | BP | | BR/r | | W |
|-----------|-----------|------|-------|-------|-------|------|-----|-----|-----|-------|-----|------|------|-----|
| | | | inch | mm | inch | mm | psi | bar | | mbar | psi | bar | inch | |
| PH785-08 | -8 | 0.75 | 1/2 | 12.70 | 0.866 | 22.0 | 290 | 20 | 899 | 1,160 | 80 | 1.6 | 40 | 321 |
| PH785-10 | -10 | 0.80 | 5/8 | 15.88 | 1.063 | 27.0 | 218 | 15 | 899 | 870 | 60 | 2.0 | 50 | 356 |
| PH785-12 | -12 | 0.90 | 3/4 | 19.05 | 1.252 | 31.8 | 218 | 15 | 899 | 870 | 60 | 2.2 | 55 | 473 |
| PH785-16 | -16 | 1.00 | 1 | 25.40 | 1.472 | 37.4 | 218 | 15 | 899 | 870 | 60 | 2.6 | 65 | 519 |
| PH785-20 | -20 | 1.00 | 1.1/4 | 31.75 | 1.776 | 45.1 | 145 | 10 | 899 | 580 | 40 | 4.1 | 105 | 715 |
| PH785-24 | -24 | 1.00 | 1.1/2 | 38.10 | 1.988 | 50.5 | 145 | 10 | 899 | 580 | 40 | 4.9 | 125 | 767 |
| PH785-32 | -32 | 1.10 | 2 | 50.80 | 2.500 | 63.5 | 145 | 10 | 899 | 580 | 40 | 5.9 | 150 | 988 |



Temperature Range: Continuous: -54°C to +180°C

UHP HOSE FITTING CODIFICATION

020 A 01 03

HOSE SIZE
Digit 1, 2, 3 represents

| CODE | DESCRIPTION |
|------|-------------|
| 020 | 3 mm ID |
| 025 | 4 mm ID |
| 030 | 5 mm ID |
| 040 | 6 mm ID |
| 050 | 8 mm ID |
| 060 | 10 mm ID |
| 080 | 13 mm ID |
| 100 | 16 mm ID |
| 120 | 20 mm ID |
| 160 | 25 mm ID |
| 200 | 32 mm ID |

FITTING SERIES
Digit 4 represents

| CODE | DESCRIPTION |
|------|--|
| A | PH902-02, PH902-025, PH902-03, PH902Q-04, PH902QL-04, PH902-04, PH902-05, PH902-06, PH902-08 |
| B | PH904-02, PH904-03, PH904-04, PH904-05, PH904-06 |
| C | PH906-02, PH904-025, PH906-025, PH904R-08, PH906R-08, PH908-08, PH904-12 |
| D | PH906-03, PH906R-03, PH908-03, PH906-05, PH906R-05, PH908-05 |
| F | PH903 ALL HOSES |
| W | TUBE CLEANING FITTINGS FOR PH902 ALL HOSES |
| X | TUBE CLEANING FITTINGS FOR PH904 ALL HOSES |
| Y | TUBE CLEANING FITTINGS FOR PH904 ALL HOSES |

CONNECTION
Digit 5, 6 represents

| CODE | DESCRIPTION |
|------|---------------------------|
| 01 | MALE FITTING |
| 02 | FEMALE FITTING |
| 03 | FEMALE SWIVEL |
| 04 | HP FITTING |
| 05 | HP FEMALE FITTING |
| 06 | FEMALE SWIVEL WITH O-RING |
| 07 | TYPE M FEMALE SWIVEL |
| 10 | MP FITTING |
| 20 | SONDERBAUFORM CEJN |

THREAD TYPE
Digit 7, 8 represents

| CODE | DESCRIPTION | CODE | DESCRIPTION | CODE | DESCRIPTION | CODE | DESCRIPTION |
|------|----------------|------|-------------|------|--------------|------|----------------|
| 03 | M14x1.5 LH | 23 | M18x1.5 | 33 | M52x2 | 50 | 1/4"x18NPTF |
| 04 | M18x1.5 LH | 24 | M20x1.5 | 40 | G1/8" | 51 | 3/8"x18NPTF |
| 10 | 1/4"x28UNF LH | 25 | M22x1.5 | 41 | G1/4" | 52 | 1/2"x14NPTF |
| 11 | 3/8"x24UNF LH | 26 | M24x1.5 | 42 | G3/8" | 53 | 1"x11 1/2NPTF |
| 12 | 9/16"x18UNF LH | 27 | M30x2 | 43 | G1/2" | 60 | 9/16"x18UNF |
| 18 | M8x1 | 28 | M36x2 | 44 | G3/4" | 61 | 3/4"x16UNF |
| 19 | M10x1 | 29 | M42x2 | 45 | G1" | 62 | 7/8x14UNF |
| 20 | M12x1.5 | 30 | M45x2 | 46 | G1 1/4" | 63 | 1"x12UNF |
| 21 | M14x1.5 | 31 | M48x2 | 48 | 1/16"x27NPTF | 64 | 1 1/16"x12UN |
| 22 | M16x1.5 | 32 | M50x2 | 49 | 1/8"x27NPTF | 65 | 1 5/16" X 12UN |

PH902 - 2 SPIRALS OF HIGH TENSILE STEEL WIRE

Construction

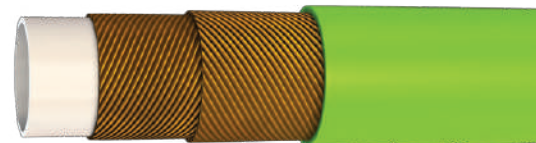
Inner tube I.D 3mm - 8mm Polyoxymethylene (POM)
I.D 10mm - 25mm Polyamide (PA)

Reinforcement 2 Spirals of high tensile steel wire

Cover Polyamide (PA) - Green

Application Water blast: Heat exchanger tube cleaning

Hydraulics: Pressure test equipment (valves, tooling and control panels), hydraulic tools (instrumentation packages for gauges, control of service equipment, hydraulic jacks, hydraulic tools)



| Item Code | DN | ID | | OD | WP | | BP | | BR/r | W |
|-----------|----|------|------|------|--------|-------|--------|-------|------|-----|
| | | inch | mm | mm | psi | bar | psi | bar | mm | g/m |
| PH902-02 | 3 | 1/8 | 3.4 | 6.9 | 14,500 | 1,000 | 36,250 | 2,500 | 60 | 72 |
| PH902-025 | 4 | 5/32 | 4.0 | 8.0 | 17,400 | 1,200 | 43,500 | 3,000 | 75 | 110 |
| PH902-03 | 5 | 3/16 | 5.0 | 9.4 | 15,080 | 1,040 | 37,700 | 2,600 | 95 | 125 |
| PH902-04 | 6 | 1/4 | 6.3 | 11.5 | 14,500 | 1,000 | 36,250 | 2,500 | 110 | 175 |
| PH902-05 | 8 | 5/16 | 8.1 | 13.3 | 13,050 | 900 | 32,625 | 2,250 | 130 | 200 |
| PH902-06 | 10 | 3/8 | 10.1 | 15.5 | 10,005 | 690 | 25,010 | 1,725 | 160 | 280 |
| PH902-08 | 12 | 1/2 | 12.9 | 19.3 | 10,005 | 690 | 25,010 | 1,725 | 200 | 435 |
| PH902-12 | 20 | 3/4 | 19.0 | 26.2 | 7,540 | 520 | 18,850 | 1,300 | 240 | 750 |
| PH902-16 | 25 | 1 | 24.8 | 33.5 | 6,380 | 440 | 15,950 | 1,100 | 300 | 950 |

 **Temperature Range:** Continuous: -30°C to +60°C

Note: Production related variations of Burst Pressure of upto 10% possible. Indicated working pressure refers to hose only. Depending on the end connectors used, the permitted working pressure of hose assembly may be less

6

PH902P - 2 SPIRALS OF HIGH TENSILE STEEL WIRE, 1 BRAID OF STEEL WIRE

Construction

Inner tube Polyamide (PA)

Reinforcement 2 Spirals of high-tensile steel wire ,1 braid of steel wire

Cover Polyurethane (PUR) - Black

Application Hydraulics: Hydraulic tools (instrumentation packages for gauges, control of service equipment, hydraulic jacks, hydraulic tools)

Oil and Gas: Grease injection, control of subsea hydraulic components



| Item Code | DN | ID | | OD | WP | | BP | | BR/r | W |
|------------|----|------|-----|------|--------|-------|--------|-------|------|-----|
| | | inch | mm | mm | psi | bar | psi | bar | mm | g/m |
| PH902P-025 | 4 | 5/32 | 4.0 | 9.8 | 17,400 | 1,200 | 43,500 | 3,000 | 65 | 185 |
| PH902P-04 | 6 | 1/4 | 6.2 | 12.9 | 16,240 | 1,120 | 40,600 | 2,800 | 95 | 300 |

 **Temperature Range:** Continuous: -30°C to +60°C

Note: Production related variations of Burst Pressure of upto 10% possible. Indicated working pressure refers to hose only. Depending on the end connectors used, the permitted working pressure of hose assembly may be less

PH902Q / PH902QL / PH902QZ- 4 SPIRALS OF HIGH TENSILE STEEL WIRE, 2 DENSE AND 2 OPEN LAYERS



Construction

Inner tube Polyamide (PA)

Reinforcement 4 Spirals of high-tensile steel wire, 2 dense and 2 open layers

Cover Polyurethane (PUR) -for PH902Q & PH902QL- Black Colour and for PH902QZ - Silver colour

Application Water Blast: Heat exchanger tube cleaning

Hydraulics: Pressure test equipment (valves, tooling and control panels), hydraulic tools (instrumentation packages for gauges, control of service equipment, hydraulic jacks, hydraulic tools)

Oil and Gas: Grease injection, control of subsea hydraulic components

| Item Code | DN | ID | | OD | WP | | BP | | BR/r | W |
|------------|----|------|------|------|--------|-------|--------|-------|------|------|
| | | inch | mm | mm | psi | bar | psi | bar | mm | g/m |
| PH902Q-025 | 4 | 5/32 | 4.0 | 9.8 | 20,300 | 1,400 | 50,750 | 3,500 | 65 | 160 |
| PH902Q-04 | 6 | 1/4 | 6.0 | 12.0 | 18,560 | 1,280 | 46,400 | 3,200 | 95 | 230 |
| PH902Q-05 | 8 | 5/16 | 8.0 | 14.3 | 15,080 | 1,040 | 37,700 | 2,600 | 110 | 314 |
| PH902Q-06 | 10 | 3/8 | 10.0 | 17.2 | 15,950 | 1,100 | 40,020 | 2,760 | 125 | 430 |
| PH902Q-08 | 12 | 1/2 | 12.8 | 20.8 | 15,080 | 1,040 | 37,700 | 2,600 | 150 | 590 |
| PH902Q-12 | 20 | 3/4 | 18.8 | 29.5 | 11,020 | 760 | 27,550 | 1,900 | 220 | 1160 |
| PH902Q-16 | 25 | 1 | 25.0 | 35.6 | 9,280 | 640 | 23,200 | 1,600 | 280 | 1490 |
| PH902QL-04 | 6 | 1/4 | 5.9 | 12.0 | 17,400 | 1200 | 43,500 | 3,000 | 80 | 240 |
| PH902QZ-05 | 8 | 5/16 | 8.0 | 16.0 | 15,080 | 1040 | 37,700 | 2,600 | 110 | 400 |
| PH902QZ-08 | 12 | 1/2 | 12.8 | 22.2 | 15,080 | 1040 | 37,700 | 2,600 | 150 | 600 |

 **Temperature Range:** Continuous: -30°C to +60°C

Note: Production related variations of Burst Pressure of upto 10% possible. Indicated working pressure refers to hose only. Depending on the end connectors used, the permitted working pressure of hose assembly may be less

PH903 - 2 SPIRALS OF HIGH TENSILE STEEL WIRE, 1 BRAID OF G.I STEEL WIRE



Construction

Inner tube Polytetrafluoroethylene (PTFE)

Reinforcement 2 Spirals of high-tensile steel wire ,1 braid of G.I steel wire

Safety factors up to 50 °C - 1,0 / up to 100°C - 0,95 / up to 150°C - 0,9 / up to 200°C - 0,83
for higher temperatures

Application Automotive: Hot Melt Adhesives / Hot Glue Dispensing, Injection Molding, Chemical Transfer / Paint Transfer, Robotic Systems, Compressed Gas

| Item Code | DN | ID | | OD | WP | | BP | | BR/r | W |
|-----------|----|-------|------|------|-------|-----|--------|-------|------|------|
| | | inch | mm | mm | psi | bar | psi | bar | mm | g/m |
| PH903-04 | 6 | 1/4 | 6.2 | 11.2 | 7,250 | 500 | 29,000 | 2,000 | 60 | 270 |
| PH903-05 | 8 | 5/16 | 8.0 | 13.4 | 6,880 | 475 | 27,500 | 1,900 | 85 | 345 |
| PH903-06 | 10 | 3/8 | 10.0 | 15.7 | 6,525 | 450 | 26,100 | 1,800 | 110 | 500 |
| PH903-08 | 12 | 1/2 | 12.2 | 18.8 | 6,520 | 450 | 26,100 | 1,800 | 150 | 600 |
| PH903-10 | 16 | 5/8 | 15.1 | 21.6 | 5,800 | 400 | 23,200 | 1,600 | 175 | 700 |
| PH903-12 | 20 | 3/4 | 20.2 | 27.5 | 4,350 | 300 | 17,400 | 1,200 | 200 | 1055 |
| PH903-16 | 25 | 1 | 24.2 | 31.4 | 3,980 | 275 | 15,950 | 1,100 | 240 | 1205 |
| PH903-20 | 32 | 1 1/4 | 32.0 | 39.0 | 3,620 | 250 | 14,500 | 1,000 | 280 | 1600 |

 **Temperature Range:** Continuous: -70°C to +200°C

Note : Production related variations of Burst Pressure of upto 10% possible. Indicated working pressure refers to hose only. Depending on the end connectors used, the permitted working pressure of hose assembly may be less

Important Information!

PH903 series hoses are intended for being used as basic hoses for heating hose systems. They do not have an outer cover and the wires are not protected against corrosion. It is not allowed to use these hoses in a "normal" hose assembly without taking the right steps to prevent the corrosion of the wires because there exists the risk of injury as well as the possibility of the failure of the hose assembly.

PH903 series hoses are available as a special execution with a plastic outer cover. For further information, please contact manufacturer

PH904 - 4 SPIRALS OF HIGH TENSILE STEEL WIRE



Construction

Inner tube I.D 3mm - 10mm Polyoxymethylene (POM)
I.D 13mm - 25mm Polyamide (PA)

Reinforcement 4 Spirals of high tensile steel wire

Cover Polyamide (PA) - Grey

Application Waterblast: Heat exchanger tube cleaning

Hydraulics: Bolt tensioning, pressure test equipment (valves, tooling and control panels), hydraulic tools (instrumentation packages for gauges, control of service equipment, hydraulic jacks, hydraulic tools)

Oil and Gas: Grease injection, chemical injection, control of subsea hydraulic components, nitrogen service, gaseous media handling

| Item Code | DN | ID | | OD | WP | | BP | | BR/r | W |
|-----------|----|------|------|------|--------|-------|--------|-------|------|------|
| | | inch | mm | mm | psi | bar | psi | bar | mm | g/m |
| PH904-02 | 3 | 1/8 | 3.4 | 8.0 | 29,000 | 2,000 | 72,500 | 5,000 | 110 | 135 |
| PH904-025 | 4 | 5/32 | 4.0 | 10.3 | 31,900 | 2,200 | 79,750 | 5,500 | 130 | 234 |
| PH904-03 | 5 | 3/16 | 5.0 | 11.2 | 26,100 | 1,800 | 65,250 | 4,500 | 150 | 260 |
| PH904-04 | 6 | 1/4 | 6.3 | 12.6 | 21,750 | 1,500 | 54,370 | 3,750 | 180 | 295 |
| PH904-05 | 8 | 5/16 | 8.0 | 14.6 | 21,750 | 1,500 | 54,370 | 3,750 | 200 | 390 |
| PH904-06 | 10 | 3/8 | 9.9 | 18.4 | 21,750 | 1,500 | 54,370 | 3,750 | 200 | 690 |
| PH904-08 | 12 | 1/2 | 12.8 | 21.4 | 18,850 | 1,300 | 47,125 | 3,250 | 200 | 800 |
| PH904-10 | 16 | 5/8 | 16.0 | 25.5 | 15,080 | 1,040 | 37,700 | 2,600 | 250 | 1002 |
| PH904-12 | 20 | 3/4 | 18.8 | 28.8 | 15,080 | 1,040 | 37,700 | 2,600 | 250 | 1350 |
| PH904-16 | 25 | 1 | 24.8 | 36.3 | 13,050 | 900 | 32,625 | 2,250 | 300 | 1715 |



Temperature Range: Continuous: -30°C to +60°C

Note: Production related variations of Burst Pressure of upto 10% possible. Indicated working pressure refers to hose only. Depending on the end connectors used, the permitted working pressure of hose assembly may be less

6

PH904R - 4 SPIRALS OF HIGH TENSILE STEEL WIRE



Construction

Inner tube Polyamide (PA)

Reinforcement 4 Spirals of high tensile steel wire

Cover Polyamide (PA) - Red

Application Waterblast: Heat exchanger tube cleaning, surface preparation (Concrete removal, surface cleaning of buildings, paint removal), tank and vessel cleaning, ultra high pressure waterjet cutting and hydro demolition (cutting and demolition of armoured concrete, pipelines, paper or steel)

Hydraulics: Pressure test equipment (valves, tooling and control panels), hydraulic tools (instrumentation packages for gauges, control of service equipment, hydraulic jacks, hydraulic tools)

Oil and Gas: Grease injection, chemical injection, control of subsea hydraulic components, nitrogen service, gaseous media handling

| Item Code | DN | ID | | OD | WP | | BP | | BR/r | W |
|-----------|----|------|------|----|--------|-------|--------|-------|------|-----|
| | | inch | mm | mm | psi | bar | psi | bar | mm | g/m |
| PH904R-08 | 12 | 1/2 | 12.8 | 22 | 20,300 | 1,400 | 50,750 | 3,500 | 200 | 900 |



Temperature Range: Continuous: -30°C to +60°C

Note: Production related variations of Burst Pressure of upto 10% possible. Indicated working pressure refers to hose only. Depending on the end connectors used, the permitted working pressure of hose assembly may be less

PH906 - 6 SPIRALS OF HIGH TENSILE STEEL WIRE



Construction

Inner tube I.D 3mm to 10mm Polyoxymethylene (POM)
I.D 13mm to 25mm Polyamide (PA)

Reinforcement 6 Spirals of high tensile steel wire

Cover Polyamide (PA) - Dark Blue

Application Water blast: Surface preparation (Concrete removal, surface cleaning of buildings, paint removal), tank and vessel cleaning, ultra high-pressure waterjet cutting and hydro demolition (cutting and demolition of armoured concrete, pipelines, paper or steel)
Hydraulics: Hydraulic tools (instrumentation packages for gauges, control of service equipment, hydraulic jacks, hydraulic tools)

| Item Code | DN | ID | | OD | WP | | BP | | BR/r | W |
|-----------|----|------|------|------|--------|-------|---------|-------|------|------|
| | | inch | mm | mm | psi | bar | psi | bar | mm | g/m |
| PH906-02 | 3 | 1/8 | 3.0 | 9.1 | 40,600 | 2,800 | 101,500 | 7,000 | 150 | 222 |
| PH906-025 | 4 | 5/32 | 4.0 | 11.5 | 40,600 | 2,800 | 101,500 | 7,000 | 175 | 365 |
| PH906-03 | 5 | 3/16 | 4.8 | 13.2 | 36,250 | 2,500 | 90,625 | 6,250 | 200 | 450 |
| PH906-05 | 8 | 5/16 | 8.0 | 16.4 | 30,450 | 2,100 | 76,125 | 5,250 | 250 | 640 |
| PH906-06 | 10 | 3/8 | 9.8 | 20.4 | 27,840 | 1,920 | 69,600 | 4,800 | 250 | 1000 |
| PH906-08 | 12 | 1/2 | 12.8 | 23.4 | 26,100 | 1,800 | 65,250 | 4,500 | 300 | 1160 |
| PH906-10 | 16 | 5/8 | 15.9 | 27.7 | 22,040 | 1,520 | 55,100 | 3,800 | 320 | 1480 |
| PH906-12 | 20 | 3/4 | 18.8 | 32.8 | 20,300 | 1,400 | 50,750 | 3,500 | 350 | 2170 |
| PH906-16 | 25 | 1 | 24.8 | 39.8 | 20,300 | 1,400 | 43,500 | 3,000 | 600 | 2800 |

 **Temperature Range:** Continuous: -30°C to +60°C

Note: Production related variations of Burst Pressure of upto 10% possible. Indicated working pressure refers to hose only. Depending on the end connectors used, the permitted working pressure of hose assembly may be less

PH906R - 6 SPIRALS OF HIGH TENSILE STEEL WIRE



Construction

Inner tube Polyoxymethylene (POM)

Reinforcement 6 Spirals of high tensile steel wire

Cover Polyamide (PA) - Red

Application Water blast: Heat exchanger tube cleaning, surface preparation (concrete removal, surface cleaning of the buildings, paint removal), tank and vessel cleaning, ultra high-pressure water jet cutting and hydro demolition (cutting and demolition of armoured concrete, pipelines, paper or steel)
Hydraulics: Bolt tensioning, pressure test equipment (valves, tooling and control panels), hydraulic tools (instrumentation packages for gauges, control of service equipment, hydraulic jacks, hydraulic tools)
Oil and Gas: Grease injection, nitrogen service

| Item Code | DN | ID | | OD | WP | | BP | | BR/r | W |
|-----------|----|------|------|------|--------|-------|---------|-------|------|------|
| | | inch | mm | mm | psi | bar | psi | bar | mm | g/m |
| PH906R-03 | 5 | 3/16 | 4.6 | 14.4 | 40,600 | 2,800 | 101,500 | 7,000 | 220 | 600 |
| PH906R-04 | 6 | 1/4 | 5.9 | 16.4 | 40,600 | 2,800 | 101,500 | 7,000 | 250 | 800 |
| PH906R-05 | 8 | 5/16 | 7.7 | 18.8 | 36,250 | 2,500 | 90,625 | 6,250 | 260 | 950 |
| PH906R-08 | 12 | 1/2 | 12.7 | 24.8 | 29,000 | 2,000 | 72,500 | 5,000 | 300 | 1200 |

 **Temperature Range:** Continuous: -30°C to +60°C

Note: Production related variations of Burst Pressure of upto 10% possible. Indicated working pressure refers to hose only. Depending on the end connectors used, the permitted working pressure of hose assembly may be less

PH908 - 8 SPIRALS OF HIGH TENSILE STEEL WIRE



Construction

Inner tube Polyoxymethylene (POM)

Reinforcement 8 Spirals of high tensile steel wire

Cover Polyamide (PA) - Yellow

Application Water blast: Heat exchanger tube cleaning, surface preparation (Concrete removal, surface cleaning of buildings, paint removal), tank and vessel cleaning, ultra high - pressure waterjet cutting and hydro demolition (cutting and demolition of armoured concrete, pipelines, paper or steel)
 Hydraulics: Pressure test equipment (valves, tooling and control panels), hydraulic tools (instrumentation packages for gauges, control of service equipment, hydraulic jacks, hydraulic tools), hydroforming
 Oil and Gas: Gaseous media handling

| Item Code | DN | ID | | OD | WP | | BP | | BR/r | W |
|-----------|----|------|------|------|--------|-------|---------|-------|------|------|
| | | inch | mm | mm | psi | bar | psi | bar | mm | g/m |
| PH908-025 | 4 | 5/32 | 4.0 | 12.8 | 46,400 | 3,200 | 116,000 | 8,000 | 175 | 540 |
| PH908-03 | 5 | 3/16 | 4.5 | 15.3 | 46,400 | 3,200 | 116,000 | 8,000 | 250 | 700 |
| PH908-04 | 6 | 1/4 | 5.8 | 18.6 | 46,400 | 3,200 | 116,000 | 8,000 | 280 | 1100 |
| PH908-05 | 8 | 5/16 | 7.6 | 22.0 | 46,400 | 3,200 | 107,300 | 7,400 | 300 | 1500 |
| PH908-08 | 12 | 1/2 | 12.8 | 27.7 | 40,600 | 2,800 | 87,000 | 6,000 | 350 | 2100 |
| PH908-10 | 16 | 5/8 | 15.9 | 31.8 | 29,000 | 2,000 | 72,500 | 5,000 | 400 | 2600 |



Temperature Range: Continuous: -30°C to +60°C

Note: Production related variations of Burst Pressure of upto 10% possible. Indicated working pressure refers to hose only. Depending on the end connectors used, the permitted working pressure of hose assembly may be less

PH360 - PNEUMATIC TOOL HOSE



Construction

Inner tube Plasticized PVC, Black

Reinforcement Double braids of Synthetic fiber

Cover Thermo-compound, Black colour

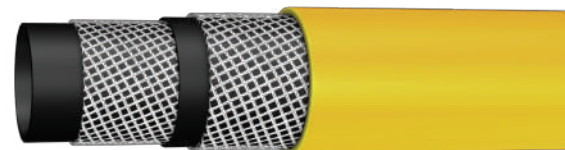
Application Specially designed for various industrial machinery, under ground application, civil construction and others. Such as watering, airline connection, road building, pneumatic tools, etc.

Note : Special colours available on request

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|-----|-----|------|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH360-04 | -04 | 06 | 1/4 | 6.5 | 0.510 | 13.0 | 290 | 20 | 1740 | 120 | 1.0 | 25 | 145.0 |
| PH360-05 | -05 | 08 | 5/16 | 8.0 | 0.590 | 15.0 | 290 | 20 | 1740 | 120 | 1.2 | 30 | 165.0 |
| PH360-06 | -06 | 10 | 3/8 | 9.5 | 0.650 | 16.5 | 290 | 20 | 1740 | 120 | 1.6 | 40 | 190.0 |
| PH360-08 | -08 | 12 | 1/2 | 12.7 | 0.827 | 21.0 | 290 | 20 | 1160 | 80 | 2.0 | 50 | 300.0 |
| PH360-12 | -12 | 19 | 3/4 | 19.0 | 1.122 | 28.5 | 290 | 20 | 1160 | 80 | 2.8 | 70 | 460.0 |
| PH360-16 | -16 | 25 | 1 | 25.4 | 1.358 | 34.5 | 290 | 20 | 870 | 60 | 5.0 | 125 | 620.0 |

 **Temperature Range:** Continuous: -10°C to +60°C

PH361 - SUPER SPRAY HOSE



Construction

Inner tube Plasticized PVC, Black

Reinforcement Double braids of Synthetic fiber

Cover Thermo-compound, yellow colour

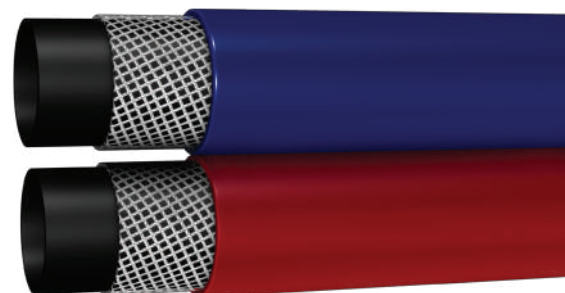
Application Specially designed for spraying various pesticides, high pressure watering and aerating, etc.

Note : Special colours available on request

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|-----|-------|------|-----|-----|------|-----|------|----|-----|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH361-05 | -05 | 08 | 5/16 | 8.0 | 0.602 | 15.3 | 580 | 40 | 1450 | 100 | 1.2 | 30 | 153 |
| PH361-06 | -06 | 10 | 3/8 | 9.5 | 0.650 | 16.5 | 580 | 40 | 1450 | 100 | 1.6 | 40 | 165 |

 **Temperature Range:** Continuous: -10°C to +60°C

PH362- WELDING HOSE



Construction

Inner tube Plasticized PVC, Black

Reinforcement Single braid of Synthetic fiber

Cover Hyper Flame Retardant Thermo-compound, Red / Blue Colour

Application Specially designed for Oxy-acetylene welding and cutting equipment

Note : Special colours available on request

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|-----|-----|-----|-----|------|----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH362-03 | -03 | 05 | 3/16 | 4.8 | 0.413 | 10.5 | 220 | 15 | 800 | 55 | 0.9 | 23 | 105.0 |
| PH362-04 | -04 | 06 | 1/4 | 6.5 | 0.492 | 12.5 | 220 | 15 | 800 | 55 | 1.0 | 25 | 125.0 |
| PH362-05 | -05 | 08 | 5/16 | 8.0 | 0.571 | 14.5 | 220 | 15 | 800 | 55 | 1.1 | 28 | 155.0 |
| PH362-06 | -06 | 10 | 3/8 | 9.5 | 0.630 | 16.0 | 220 | 15 | 800 | 55 | 1.5 | 38 | 180.0 |
| PH362-08 | -08 | 12 | 1/2 | 12.7 | 0.827 | 21.0 | 220 | 15 | 800 | 55 | 2.0 | 50 | 250.0 |

 **Temperature Range:** Continuous: -10°C to +60°C

PH365 - AIR / WATER HOSE



Construction

- Inner tube** Plasticized PVC, Black
- Reinforcement** Single braid of Synthetic fiber
- Cover** Abrasion resistant thermo-compound, black Colour
- Application** Specially designed for Tyre inflation, light engineering industry and general purpose air line

Note: Special colours available on request

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|-----|-----|-----|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH365-04 | -04 | 06 | 1/4 | 6.5 | 0.492 | 12.5 | 230 | 16 | 920 | 64 | 2.0 | 50 | 125.0 |
| PH365-05 | -05 | 08 | 5/16 | 8.0 | 0.571 | 14.5 | 230 | 16 | 920 | 64 | 3.0 | 75 | 155.0 |
| PH365-06 | -06 | 10 | 3/8 | 9.5 | 0.630 | 16.0 | 230 | 16 | 920 | 64 | 4.0 | 100 | 180.0 |
| PH365-08 | -08 | 12 | 1/2 | 12.7 | 0.795 | 20.2 | 230 | 16 | 920 | 64 | 4.3 | 110 | 260.0 |
| PH365-12 | -12 | 19 | 3/4 | 19.0 | 1.067 | 27.1 | 145 | 10 | 580 | 40 | 5.0 | 125 | 400.0 |
| PH365-16 | -16 | 25 | 1 | 25.4 | 1.299 | 33.0 | 145 | 10 | 580 | 40 | 6.0 | 150 | 500.0 |



Temperature Range: Continuous: -10°C to +60°C

PH365L - AIR / WATER - LIGHT DUTY



Construction

- Inner tube** Plasticized PVC, Black
- Reinforcement** Single braid of Synthetic fiber
- Cover** Abrasion resistant thermo-compound, black Colour
- Application** Specially designed for Tyre inflation, light engineering industry and general purpose air line

Note: Special colours available on request

| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|-----|-----|-----|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH365L-04 | -04 | 06 | 1/4 | 6.5 | 0.453 | 11.5 | 230 | 16 | 920 | 64 | 2.4 | 60 | 90.0 |
| PH365L-05 | -05 | 08 | 5/16 | 8.0 | 0.530 | 13.5 | 230 | 16 | 920 | 64 | 3.3 | 85 | 130.0 |
| PH365L-06 | -06 | 10 | 3/8 | 9.5 | 0.590 | 15.0 | 230 | 16 | 920 | 64 | 4.3 | 110 | 150.0 |
| PH365L-08 | -08 | 12 | 1/2 | 12.7 | 0.736 | 18.7 | 230 | 16 | 920 | 64 | 5.1 | 130 | 220.0 |
| PH365L-12 | -12 | 19 | 3/4 | 19.0 | 1.024 | 26.0 | 145 | 10 | 580 | 40 | 5.7 | 145 | 330.0 |
| PH365L-16 | -16 | 25 | 1 | 25.4 | 1.240 | 31.5 | 145 | 10 | 580 | 40 | 6.7 | 170 | 450.0 |



Temperature Range: Continuous: -10°C to +60°C

PH367 - P.V.C BRAIDED HOSE

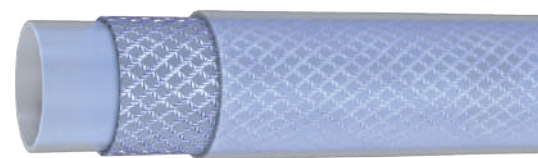
Construction

Inner tube Plasticized PVC, Transparent

Reinforcement Single braid of Synthetic fiber

Cover Thermo-compound, Transparent

Application Factory water supply and drainage equipment. Air and water piping for industrial equipment. special rock drill hose available in regular & heavy duty type



| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|-----|-----|------|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH367-04 | -04 | 06 | 1/4 | 6.5 | 0.492 | 12.5 | 435 | 30 | 1740 | 120 | 1.2 | 30 | 125.0 |
| PH367-05 | -05 | 08 | 5/16 | 8.0 | 0.571 | 14.5 | 435 | 30 | 1300 | 90 | 1.4 | 35 | 150.0 |
| PH367-06 | -06 | 10 | 3/8 | 9.5 | 0.630 | 16.0 | 435 | 30 | 1300 | 90 | 1.8 | 45 | 180.0 |
| PH367-08 | -08 | 12 | 1/2 | 12.7 | 0.795 | 20.2 | 360 | 25 | 1090 | 75 | 2.2 | 55 | 230.0 |
| PH367-10 | -10 | 16 | 5/8 | 16.0 | 0.945 | 24.0 | 320 | 22 | 1090 | 75 | 3.3 | 85 | 320.0 |
| PH367-12 | -12 | 20 | 3/4 | 19.0 | 1.063 | 27.0 | 320 | 22 | 1090 | 75 | 4.3 | 110 | 380.0 |
| PH367-16 | -16 | 25 | 1 | 25.4 | 1.299 | 33.0 | 220 | 15 | 725 | 50 | 5.3 | 135 | 490.0 |



Temperature Range: Continuous: -10°C to +60°C

PH367L - P.V.C BRAIDED HOSE - LIGHT DUTY

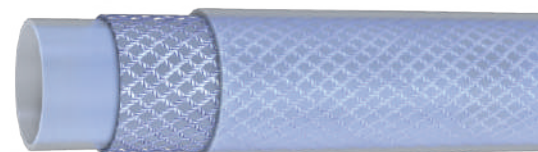
Construction

Inner tube Plasticized PVC, Transparent

Reinforcement Single braid of Synthetic fiber

Cover Thermo-compound, Transparent

Application Factory water supply and drainage equipment. Air and water piping for industrial equipment



| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|-----|-----|-----|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH367L-04 | -04 | 06 | 1/4 | 6.5 | 0.433 | 11.0 | 435 | 30 | 920 | 64 | 1.6 | 40 | 87.0 |
| PH367L-05 | -05 | 08 | 5/16 | 8.0 | 0.512 | 13.0 | 435 | 30 | 920 | 64 | 1.8 | 45 | 126.0 |
| PH367L-06 | -06 | 10 | 3/8 | 9.5 | 0.571 | 14.5 | 435 | 30 | 920 | 64 | 2.2 | 55 | 146.0 |
| PH367L-08 | -08 | 12 | 1/2 | 12.7 | 0.728 | 18.5 | 360 | 25 | 920 | 64 | 2.6 | 65 | 213.0 |
| PH367L-12 | -12 | 19 | 3/4 | 19.0 | 1.004 | 25.5 | 320 | 22 | 580 | 40 | 5.1 | 130 | 320.0 |
| PH367L-16 | -16 | 25 | 1 | 25.4 | 1.220 | 31.0 | 220 | 15 | 580 | 40 | 6.1 | 155 | 437.0 |



Temperature Range: Continuous: -10°C to +60°C

PH368 - MULTIPURPOSE HOSE

Construction

Inner tube Plasticized PVC, Black

Reinforcement Single braid of Synthetic fiber

Cover Abrasion Resistant Thermo-compound, Black Colour

Application Specially designed for spraying various pesticides, high pressure watering and aerating etc.,

Note : Special colours available on request



| Item Code | Dash Size | DN | ID | | OD | | WP | | BP | | BR/r | | W |
|-----------|-----------|----|------|------|-------|------|-----|-----|-----|-----|------|-----|-------|
| | | | inch | mm | inch | mm | psi | bar | psi | bar | inch | mm | g/m |
| PH368-04 | -04 | 06 | 1/4 | 6.5 | 0.492 | 12.5 | 290 | 20 | 870 | 60 | 1.0 | 25 | 115.0 |
| PH368-05 | -05 | 08 | 5/16 | 8.0 | 0.571 | 14.5 | 290 | 20 | 870 | 60 | 1.2 | 30 | 160.0 |
| PH368-06 | -06 | 10 | 3/8 | 9.5 | 0.630 | 16.0 | 290 | 20 | 870 | 60 | 1.6 | 40 | 185.0 |
| PH368-08 | -08 | 12 | 1/2 | 12.7 | 0.795 | 20.2 | 290 | 20 | 870 | 60 | 2.0 | 50 | 245.0 |
| PH368-10 | -10 | 16 | 5/8 | 16.0 | 0.945 | 24.0 | 290 | 20 | 870 | 60 | 2.6 | 65 | 350.0 |
| PH368-12 | -12 | 19 | 3/4 | 19.0 | 1.067 | 27.1 | 290 | 20 | 870 | 60 | 2.8 | 70 | 400.0 |
| PH368-16 | -16 | 25 | 1 | 25.4 | 1.299 | 33.0 | 290 | 20 | 725 | 50 | 5.0 | 125 | 495.0 |



Temperature range : Continuous -10°C to +60°C

PH801 : POLY - TANKER HOSE

Applicable Standard: EN 13765 TYPE 1 : 2010

Construction Hose made from Polypropylene fabric and films with PVC coated fabric cover, inner and outer wires are galvanised MS

Application Suction and discharge hose specially designed for transfer of petroleum product by Road Tankers, Rail Tankers and Loading Gantries

Colour Black with white strip



| Item Code | Dash Size | ID | | OD | | WP | | BR/r | |
|-----------|-----------|-------|-------|------|-------|-----|-----|-------|-----|
| | | inch | mm | inch | mm | psi | bar | inch | mm |
| PH801-32 | -32 | 2 | 51.0 | 2.40 | 61.0 | 100 | 7 | 7.87 | 200 |
| PH801-40 | -40 | 2-1/2 | 63.0 | 2.99 | 76.0 | 100 | 7 | 7.87 | 200 |
| PH801-48 | -48 | 3 | 76.0 | 3.46 | 88.0 | 100 | 7 | 11.02 | 280 |
| PH801-64 | -64 | 4 | 102.0 | 4.41 | 112.0 | 100 | 7 | 15.75 | 400 |

 **Temperature Range:** Continuous: -30°C to +80°C

PH802 : POLY - OIL HOSE

Applicable Standard: EN 13765 TYPE 2 : 2010

Construction Hose made from Polypropylene fabric and films, films with PVC coated fabric cover, inner and outer wires are galvanised MS

Application Suitable for the suction and discharge transfer of petroleum product in in-plant application

Colour Blue with white strip



| Item Code | Dash Size | ID | | OD | | WP | | BR/r | |
|-----------|-----------|-------|-------|------|-------|-----|-----|-------|-----|
| | | inch | mm | inch | mm | psi | bar | inch | mm |
| PH802-16 | -16 | 1 | 25.0 | 1.50 | 38.0 | 150 | 10 | 4.92 | 125 |
| PH802-24 | -24 | 1-1/2 | 38.0 | 2.05 | 52.0 | 150 | 10 | 5.91 | 150 |
| PH802-32 | -32 | 2 | 51.0 | 2.52 | 64.0 | 150 | 10 | 7.87 | 200 |
| PH802-40 | -40 | 2-1/2 | 63.0 | 2.05 | 52.0 | 150 | 10 | 7.87 | 200 |
| PH802-48 | -48 | 3 | 76.0 | 3.62 | 92.0 | 150 | 10 | 11.02 | 280 |
| PH802-64 | -64 | 4 | 102.0 | 4.53 | 115.0 | 150 | 10 | 15.75 | 400 |

 **Temperature Range:** Continuous: -30°C to +80°C

8

PH803 : POLY - AVIATION FUEL COMPOSITE HOSE

Applicable Standard: EN 13765 TYPE 2 : 2010

Construction Hose made from Polypropylene fabric and films with PVC coated fabric cover, Outer wire is galvanised mild steel and the inner wire is SS or Galvanised MS

Application Designed for transfer of fuel in the aviation industry

Colour Yellow with white strip



| Item Code | Dash Size | ID | | OD | | WP | | BR/r | |
|-----------|-----------|-------|-------|------|-------|-----|-----|-------|-----|
| | | inch | mm | inch | mm | psi | bar | inch | mm |
| PH803-24 | -24 | 1-1/2 | 38.0 | 1.97 | 50.0 | 150 | 10 | 5.91 | 150 |
| PH803-32 | -32 | 2 | 51.0 | 2.40 | 61.0 | 150 | 10 | 7.87 | 200 |
| PH803-40 | -40 | 2-1/2 | 63.0 | 2.99 | 76.0 | 150 | 10 | 7.87 | 200 |
| PH803-48 | -48 | 3 | 76.0 | 3.46 | 88.0 | 150 | 10 | 11.02 | 280 |
| PH803-64 | -64 | 4 | 102.0 | 4.41 | 112.0 | 150 | 10 | 15.75 | 400 |

 **Temperature Range:** Continuous: -30°C to +80°C

PH804 : POLY - FUEL HOSE

Applicable Standard: EN 13765 TYPE 2 : 2010

Construction Hose made from Polypropylene fabric and films with PVC coated fabric cover, Inner & Outer wire is galvanised mild steel

Application Suction and discharge hose mainly for transfer of petroleum products by Road tankers and Rail tankers and loading gantries

Colour Yellow with white strip



| Item Code | Dash Size | ID | | OD | | WP | | BR/r | |
|-----------|-----------|-------|-------|------|-------|-----|-----|-------|-----|
| | | inch | mm | inch | mm | psi | bar | inch | mm |
| PH804-16 | -16 | 1 | 25.0 | 1.26 | 32.0 | 150 | 10 | 4.92 | 125 |
| PH804-24 | -24 | 1-1/2 | 38.0 | 1.97 | 50.0 | 150 | 10 | 5.91 | 150 |
| PH804-32 | -32 | 2 | 51.0 | 2.40 | 61.0 | 150 | 10 | 7.87 | 200 |
| PH804-40 | -40 | 2-1/2 | 63.0 | 2.99 | 76.0 | 150 | 10 | 7.87 | 200 |
| PH804-48 | -48 | 3 | 76.0 | 3.46 | 88.0 | 150 | 10 | 11.02 | 280 |
| PH804-64 | -64 | 4 | 102.0 | 4.41 | 112.0 | 150 | 10 | 15.75 | 400 |

 **Temperature Range:** Continuous: -30°C to +80°C

PH805 : POLY - PTFE CHEMICAL

Applicable Standard: EXCEEDS EN 13765 TYPE 2 : 2010

Construction Hose made from Polypropylene fabric and films with PVC coated fabric cover, Inner & outer SS 316 wire and lined with layer of PTFE Film

Application Suitable for various Acids & Alkalines

Colour Red with white strip



| Item Code | Dash Size | ID | | OD | | WP | | BR/r | |
|-----------|-----------|-------|-------|------|-------|-----|-----|-------|-----|
| | | inch | mm | inch | mm | psi | bar | inch | mm |
| PH805-16 | -16 | 1 | 25.0 | 1.50 | 38.0 | 150 | 10 | 4.92 | 125 |
| PH805-24 | -24 | 1-1/2 | 38.0 | 2.05 | 52.0 | 150 | 10 | 5.91 | 150 |
| PH805-32 | -32 | 2 | 51.0 | 2.52 | 64.0 | 150 | 10 | 7.87 | 200 |
| PH805-40 | -40 | 2-1/2 | 63.0 | 3.15 | 80.0 | 150 | 10 | 7.87 | 200 |
| PH805-48 | -48 | 3 | 76.0 | 3.62 | 92.0 | 150 | 10 | 11.02 | 280 |
| PH805-64 | -64 | 4 | 102.0 | 4.72 | 120.0 | 150 | 10 | 15.75 | 400 |

 **Temperature Range:** Continuous: -30°C to +150°C

PH806 : POLY - CHEMICAL-SS

Applicable Standard: EN 13765 TYPE 2 : 2010

Construction Hose made from Polypropylene fabric and films with PVC coated fabric cover, inner wire is SS and outer wire of Galvanised MS

Application Transfer of various acids and alkalines

Colour Green with white strip



| Item Code | Dash Size | ID | | OD | | WP | | BR/r | |
|-----------|-----------|-------|-------|------|-------|-----|-----|-------|-----|
| | | inch | mm | inch | mm | psi | bar | inch | mm |
| PH806-16 | -16 | 1 | 25.0 | 1.50 | 38.0 | 150 | 10 | 4.92 | 125 |
| PH806-24 | -24 | 1-1/2 | 38.0 | 2.05 | 52.0 | 150 | 10 | 5.91 | 150 |
| PH806-32 | -32 | 2 | 51.0 | 2.52 | 64.0 | 150 | 10 | 7.87 | 200 |
| PH806-40 | -40 | 2-1/2 | 63.0 | 3.15 | 80.0 | 150 | 10 | 7.87 | 200 |
| PH806-48 | -48 | 3 | 76.0 | 3.62 | 92.0 | 150 | 10 | 11.02 | 280 |
| PH806-64 | -64 | 4 | 102.0 | 4.72 | 120.0 | 150 | 10 | 15.75 | 400 |

 **Temperature Range:** Continuous: -30°C to +80°C

PH807 : POLY - CHEMICAL HOSE - P P

Applicable Standard: EN 13765 TYPE 3 : 2010

Construction Hose made from Polypropylene fabric and films with PVC coated Fabric cover, inner wire of polypropylene coated steel wire, outer wire of Galvanised MS

Application Transfer of various acids and alkalines

Colour Grey with white strip



| Item Code | Dash Size | ID | | OD | | WP | | BR/r | |
|-----------|-----------|------|-------|------|-------|-----|-----|-------|-----|
| | | inch | mm | inch | mm | psi | bar | inch | mm |
| PH807-16 | -16 | 0.98 | 25.0 | 1.50 | 38.0 | 150 | 10 | 4.92 | 125 |
| PH807-24 | -24 | 1.50 | 38.0 | 2.05 | 52.0 | 150 | 10 | 5.91 | 150 |
| PH807-32 | -32 | 2.01 | 51.0 | 2.52 | 64.0 | 150 | 10 | 7.87 | 200 |
| PH807-40 | -40 | 2.48 | 63.0 | 3.15 | 80.0 | 150 | 10 | 7.87 | 200 |
| PH807-48 | -48 | 2.99 | 76.0 | 3.62 | 92.0 | 150 | 10 | 11.02 | 280 |
| PH807-64 | -64 | 4.02 | 102.0 | 4.72 | 120.0 | 150 | 10 | 15.75 | 400 |

 **Temperature Range:** Continuous: -30°C to +80°C

PH808 : POLY - CHEMICAL DOCK HOSE

Applicable Standard: EN 13765 TYPE 3 : 2010

Construction Hose made from heavy duty Polypropylene fabric and films with a double layer of PVC coated fabric cover, inner and outer wire of SS 316.

Application Heavy duty suction and discharge of bulk chemical in road and rail tanker, dockside and ship to shore

Colour Royal Blue with white strip



| Item Code | Dash Size | ID | | OD | | WP | | BR/r | |
|-----------|-----------|------|-------|-------|-------|-----|-----|-------|------|
| | | inch | mm | inch | mm | psi | bar | inch | mm |
| PH808-64 | -64 | 4 | 102.0 | 4.72 | 120.0 | 200 | 14 | 15.75 | 400 |
| PH808-96 | -96 | 6 | 152.0 | 6.89 | 175.0 | 200 | 14 | 22.64 | 575 |
| PH808-128 | -128 | 8 | 203.0 | 9.45 | 240.0 | 200 | 14 | 31.50 | 800 |
| PH808-160 | -160 | 10 | 254.0 | 12.80 | 325.0 | 200 | 14 | 39.37 | 1000 |

 **Temperature Range:** Continuous: -30°C to +80°C

8 PH 809 : POLY - DOCK PTFE

Applicable Standard: EN 13765 TYPE 2 : 2010

Construction Heavy duty PP fabric and films with a double layer of PVC coated fabric cover with inner SS 316 and outer wire of galvanized MS and is lined with layer of PTFE Film

Application Heavy duty suction and discharge of bulk chemical in road and rail tanker, dockside and ship to shore

Colour Red with white strip



| Item Code | Dash Size | ID | | OD | | WP | | BR/r | |
|-----------|-----------|------|-------|-------|-------|-----|-----|-------|------|
| | | inch | mm | inch | mm | psi | bar | inch | mm |
| PH809-64 | -64 | 4 | 102.0 | 4.72 | 120.0 | 200 | 14 | 15.75 | 400 |
| PH809-96 | -96 | 6 | 152.0 | 6.89 | 175.0 | 200 | 14 | 22.64 | 575 |
| PH809-128 | -128 | 8 | 203.0 | 9.45 | 240.0 | 200 | 14 | 31.50 | 800 |
| PH809-160 | -160 | 10 | 254.0 | 12.80 | 325.0 | 200 | 14 | 39.37 | 1000 |

 **Temperature Range:** Continuous: -30°C to +150°C

PH 810 : POLY - DOCK PG HOSE

Applicable Standard: EN 13765 TYPE 3 : 2010

Construction Heavy duty PP fabric and films with a double layer of PVC coated fabric cover with inner wire of PP coated Steel and outer wire of galvanised MS

Application Heavy duty suction and discharge of bulk chemical in road and rail tanker, dockside and ship to shore

Colour Blue with white strip



| Item Code | Dash Size | ID | | OD | | WP | | BR/r | |
|-----------|-----------|------|-------|-------|-------|-----|-----|-------|------|
| | | inch | mm | inch | mm | psi | bar | inch | mm |
| PH810-64 | -64 | 4 | 102.0 | 4.72 | 120.0 | 200 | 14 | 15.75 | 400 |
| PH810-96 | -96 | 6 | 152.0 | 6.89 | 175.0 | 200 | 14 | 22.64 | 575 |
| PH810-128 | -128 | 8 | 203.0 | 9.45 | 240.0 | 200 | 14 | 31.50 | 800 |
| PH810-160 | -160 | 10 | 254.0 | 12.80 | 325.0 | 200 | 14 | 39.37 | 1000 |

Temperature Range: Continuous: -30°C to +80°C

PH811 : POLY - OIL DOCK HOSE

Applicable Standard: EN 13765 TYPE 3 : 2010

Construction Heavy duty PP fabric and films with a double layer of PVC coated fabric cover with inner and outer wires are galvanised MS

Application Heavy duty suction and discharge of petroleum products in road and rail tanker, dockside and ship

Colour Black with white strip



| Item Code | Dash Size | ID | | OD | | WP | | BR/r | |
|-----------|-----------|------|-------|-------|-------|-----|-----|-------|------|
| | | inch | mm | inch | mm | psi | bar | inch | mm |
| PH811-64 | -64 | 4 | 102.0 | 4.72 | 120.0 | 200 | 14 | 15.75 | 400 |
| PH811-96 | -96 | 6 | 152.0 | 6.89 | 175.0 | 200 | 14 | 22.64 | 575 |
| PH811-128 | -128 | 8 | 203.0 | 9.45 | 240.0 | 200 | 14 | 31.50 | 800 |
| PH811-160 | -160 | 10 | 254.0 | 11.42 | 290.0 | 200 | 14 | 39.37 | 1000 |

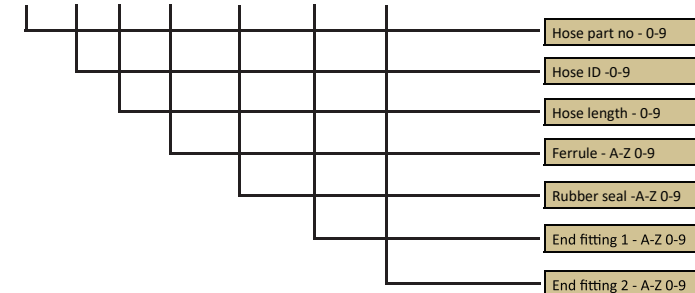
Temperature Range: Continuous: -30°C to +80°C

COMPOSITE HOSE ASSEMBLY NOMENCLATURE

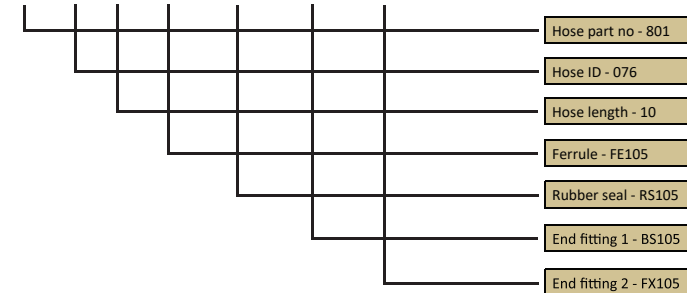
3" x 10 mtrs length Poly Tanker Hose (PH801) with one end 3" CS BSP nipple another End 3" CS fixed flange along with CS Ferrule and Nitrile seal

| Item Code | ID | Length in mtr | Ferrule | Seal | End Fitting 1 | End Fitting 2 |
|--------------------|-------|---------------|------------|-----------------|------------------------|--------------------------|
| Tanker Hose PH 801 | 3"-76 | 1-20 | CS-PHFE105 | Nitrile-PHRS105 | CS Nipple BSP-PHBS 105 | CS Fixed flange-PHFX 105 |
| 801 | 76 | 10 | FE105 | RS105 | BS105 | FX105 |

801 XXX XX XXXXX XXXXX XXXXX XXXXX



801 076 10 FE105 RS105 BS105 FX105



EXAMPLE

RUBBER SEAL



| Size | | Material | |
|------|-----|----------|----------|
| inch | mm | Nitrile | Viton |
| 1" | 25 | PHRS-101 | PHRS-201 |
| 1.5" | 38 | PHRS-102 | PHRS-202 |
| 2" | 50 | PHRS-103 | PHRS-203 |
| 2.5" | 63 | PHRS-104 | PHRS-204 |
| 3" | 75 | PHRS-105 | PHRS-205 |
| 4" | 100 | PHRS-106 | PHRS-206 |
| 6" | 150 | PHRS-107 | PHRS-207 |
| 8" | 200 | PHRS-108 | PHRS-208 |

FERRULE



| Size | | Material | | |
|------|-----|----------|----------|----------|
| inch | mm | CS | SS 304 | SS 316 |
| 1" | 25 | PHFE-101 | PHFE-201 | PHFE-301 |
| 1.5" | 38 | PHFE-102 | PHFE-202 | PHFE-302 |
| 2" | 50 | PHFE-103 | PHFE-203 | PHFE-303 |
| 2.5" | 63 | PHFE-104 | PHFE-204 | PHFE-304 |
| 3" | 75 | PHFE-105 | PHFE-205 | PHFE-305 |
| 4" | 100 | PHFE-106 | PHFE-206 | PHFE-306 |
| 6" | 150 | PHFE-107 | PHFE-207 | PHFE-307 |
| 8" | 200 | PHFE-108 | PHFE-208 | PHFE-308 |

TAIL END



| Size | | Material | | |
|------|-----|----------|----------|----------|
| inch | mm | CS | SS 304 | SS 316 |
| 1" | 25 | PHTL-101 | PHTL-201 | PHTL-301 |
| 1.5" | 38 | PHTL-102 | PHTL-202 | PHTL-302 |
| 2" | 50 | PHTL-103 | PHTL-203 | PHTL-303 |
| 2.5" | 63 | PHTL-104 | PHTL-204 | PHTL-304 |
| 3" | 75 | PHTL-105 | PHTL-205 | PHTL-305 |
| 4" | 100 | PHTL-106 | PHTL-206 | PHTL-306 |
| 6" | 150 | PHTL-107 | PHTL-207 | PHTL-307 |
| 8" | 200 | PHTL-108 | PHTL-208 | PHTL-308 |

NIPPLE BSPT



| Size | | Material | | |
|------|-----|----------|----------|----------|
| inch | mm | CS | SS 304 | SS 316 |
| 1" | 25 | PHBT-101 | PHBT-201 | PHBT-301 |
| 1.5" | 38 | PHBT-102 | PHBT-202 | PHBT-302 |
| 2" | 50 | PHBT-103 | PHBT-203 | PHBT-303 |
| 2.5" | 63 | PHBT-104 | PHBT-204 | PHBT-304 |
| 3" | 75 | PHBT-105 | PHBT-205 | PHBT-305 |
| 4" | 100 | PHBT-106 | PHBT-206 | PHBT-306 |
| 6" | 150 | PHBT-107 | PHBT-207 | PHBT-307 |
| 8" | 200 | PHBT-108 | PHBT-208 | PHBT-308 |

NIPPLE NPT



| Size | | Material | | |
|------|-----|----------|----------|----------|
| inch | mm | CS | SS 304 | SS 316 |
| 1" | 25 | PHNP-101 | PHNP-201 | PHNP-301 |
| 1.5" | 38 | PHNP-102 | PHNP-202 | PHNP-302 |
| 2" | 50 | PHNP-103 | PHNP-203 | PHNP-303 |
| 2.5" | 63 | PHNP-104 | PHNP-204 | PHNP-304 |
| 3" | 75 | PHNP-105 | PHNP-205 | PHNP-305 |
| 4" | 100 | PHNP-106 | PHNP-206 | PHNP-306 |
| 6" | 150 | PHNP-107 | PHNP-207 | PHNP-307 |
| 8" | 200 | PHNP-108 | PHNP-208 | PHNP-308 |

NIPPLE BSP



| Size | | Material | | |
|------|-----|----------|----------|----------|
| inch | mm | CS | SS 304 | SS 316 |
| 1" | 25 | PHBS-101 | PHBS-201 | PHBS-301 |
| 1.5" | 38 | PHBS-102 | PHBS-202 | PHBS-302 |
| 2" | 50 | PHBS-103 | PHBS-203 | PHBS-303 |
| 2.5" | 63 | PHBS-104 | PHBS-204 | PHBS-304 |
| 3" | 75 | PHBS-105 | PHBS-205 | PHBS-305 |
| 4" | 100 | PHBS-106 | PHBS-206 | PHBS-306 |
| 6" | 150 | PHBS-107 | PHBS-207 | PHBS-307 |
| 8" | 200 | PHBS-108 | PHBS-208 | PHBS-308 |

SWIVEL COUPLING



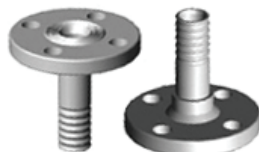
| Size | | HEXAGONAL NUT | | SWIVEL NUT WITH LUG | |
|------|-----|---------------|-----------|---------------------|-----------|
| inch | mm | BRASS | GUN METAL | BRASS | GUN METAL |
| 1" | 25 | PHSC-501 | PHSC-401 | PHSC-509 | PHSC-409 |
| 1.5" | 38 | PHSC-502 | PHSC-402 | PHSC-510 | PHSC-410 |
| 2" | 50 | PHSC-503 | PHSC-403 | PHSC-511 | PHSC-411 |
| 2.5" | 63 | PHSC-504 | PHSC-404 | PHSC-512 | PHSC-412 |
| 3" | 75 | PHSC-505 | PHSC-405 | PHSC-513 | PHSC-413 |
| 4" | 100 | PHSC-506 | PHSC-406 | PHSC-514 | PHSC-414 |
| 6" | 150 | PHSC-507 | PHSC-407 | PHSC-515 | PHSC-415 |

FIXED FLANGE CS



| Size | | STANDARD | | | |
|------|-----|----------|----------|----------|----------|
| inch | mm | ASA 150 | ANSI | DIN | JIS |
| 1" | 25 | PHFX-101 | PHFX-111 | PHFX-121 | PHFX-131 |
| 1.5" | 38 | PHFX-102 | PHFX-112 | PHFX-122 | PHFX-132 |
| 2" | 50 | PHFX-103 | PHFX-113 | PHFX-123 | PHFX-133 |
| 2.5" | 63 | PHFX-104 | PHFX-114 | PHFX-124 | PHFX-134 |
| 3" | 75 | PHFX-105 | PHFX-115 | PHFX-125 | PHFX-135 |
| 4" | 100 | PHFX-106 | PHFX-116 | PHFX-126 | PHFX-136 |
| 6" | 150 | PHFX-107 | PHFX-117 | PHFX-127 | PHFX-137 |
| 8" | 200 | PHFX-108 | PHFX-118 | PHFX-128 | PHFX-138 |

FIXED FLANGE SS 304



| Size | | STANDARD | | | |
|------|-----|----------|----------|----------|----------|
| inch | mm | ASA 150 | ANSI | DIN | JIS |
| 1" | 25 | PHFX-201 | PHFX-211 | PHFX-221 | PHFX-231 |
| 1.5" | 38 | PHFX-202 | PHFX-212 | PHFX-222 | PHFX-232 |
| 2" | 50 | PHFX-203 | PHFX-213 | PHFX-223 | PHFX-233 |
| 2.5" | 63 | PHFX-204 | PHFX-214 | PHFX-224 | PHFX-234 |
| 3" | 75 | PHFX-205 | PHFX-215 | PHFX-225 | PHFX-235 |
| 4" | 100 | PHFX-206 | PHFX-216 | PHFX-226 | PHFX-236 |
| 6" | 150 | PHFX-207 | PHFX-217 | PHFX-227 | PHFX-237 |
| 8" | 200 | PHFX-208 | PHFX-218 | PHFX-228 | PHFX-238 |

FIXED FLANGE SS 316



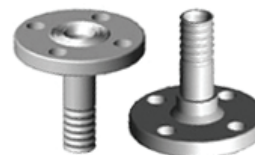
| Size | | STANDARD | | | |
|------|-----|----------|----------|----------|----------|
| inch | mm | ASA 150 | ANSI | DIN | JIS |
| 1" | 25 | PHFX-301 | PHFX-311 | PHFX-321 | PHFX-331 |
| 1.5" | 38 | PHFX-302 | PHFX-312 | PHFX-322 | PHFX-332 |
| 2" | 50 | PHFX-303 | PHFX-313 | PHFX-323 | PHFX-333 |
| 2.5" | 63 | PHFX-304 | PHFX-314 | PHFX-324 | PHFX-334 |
| 3" | 75 | PHFX-305 | PHFX-315 | PHFX-325 | PHFX-335 |
| 4" | 100 | PHFX-306 | PHFX-316 | PHFX-326 | PHFX-336 |
| 6" | 150 | PHFX-307 | PHFX-317 | PHFX-327 | PHFX-337 |
| 8" | 200 | PHFX-308 | PHFX-318 | PHFX-328 | PHFX-338 |

FLOATING FLANGE CS



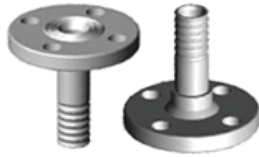
| Size | | STANDARD | | | |
|------|-----|----------|----------|----------|----------|
| inch | mm | ASA 150 | ANSI | DIN | JIS |
| 1" | 25 | PHFL-101 | PHFL-111 | PHFL-121 | PHFL-131 |
| 1.5" | 38 | PHFL-102 | PHFL-112 | PHFL-122 | PHFL-132 |
| 2" | 50 | PHFL-103 | PHFL-113 | PHFL-123 | PHFL-133 |
| 2.5" | 63 | PHFL-104 | PHFL-114 | PHFL-124 | PHFL-134 |
| 3" | 75 | PHFL-105 | PHFL-115 | PHFL-125 | PHFL-135 |
| 4" | 100 | PHFL-106 | PHFL-116 | PHFL-126 | PHFL-136 |
| 6" | 150 | PHFL-107 | PHFL-117 | PHFL-127 | PHFL-137 |
| 8" | 200 | PHFL-108 | PHFL-118 | PHFL-128 | PHFL-138 |

FLOATING FLANGE SS 304



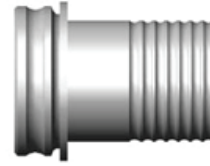
| Size | | STANDARD | | | |
|------|-----|----------|----------|----------|----------|
| inch | mm | ASA 150 | ANSI | DIN | JID |
| 1" | 25 | PHFL-201 | PHFL-211 | PHFL-221 | PHFL-231 |
| 1.5" | 38 | PHFL-202 | PHFL-212 | PHFL-222 | PHFL-232 |
| 2" | 50 | PHFL-203 | PHFL-213 | PHFL-223 | PHFL-233 |
| 2.5" | 63 | PHFL-204 | PHFL-214 | PHFL-224 | PHFL-234 |
| 3" | 75 | PHFL-205 | PHFL-215 | PHFL-225 | PHFL-235 |
| 4" | 100 | PHFL-206 | PHFL-216 | PHFL-226 | PHFL-236 |
| 6" | 150 | PHFL-207 | PHFL-217 | PHFL-227 | PHFL-237 |
| 8" | 200 | PHFL-208 | PHFL-218 | PHFL-228 | PHFL-238 |

FLOATING FLANGE SS 316



| Size | | STANDARD | | | |
|------|-----|----------|----------|----------|----------|
| inch | mm | ASA 150 | ANSI | DIN | JID |
| 1" | 25 | PHFL-301 | PHFL-311 | PHFL-321 | PHFL-331 |
| 1.5" | 38 | PHFL-302 | PHFL-312 | PHFL-322 | PHFL-332 |
| 2" | 50 | PHFL-303 | PHFL-313 | PHFL-323 | PHFL-333 |
| 2.5" | 63 | PHFL-304 | PHFL-314 | PHFL-324 | PHFL-334 |
| 3" | 75 | PHFL-305 | PHFL-315 | PHFL-325 | PHFL-335 |
| 4" | 100 | PHFL-306 | PHFL-316 | PHFL-326 | PHFL-336 |
| 6" | 150 | PHFL-307 | PHFL-317 | PHFL-327 | PHFL-337 |
| 8" | 200 | PHFL-308 | PHFL-318 | PHFL-328 | PHFL-338 |

MALE CAMLOCK



| Size | | STANDARD | | | |
|------|-----|----------|----------|----------|----------|
| inch | mm | AL | CS | SS304 | SS316 |
| 1" | 25 | PHCL-601 | PHCL-101 | PHCL-201 | PHCL-301 |
| 1.5" | 38 | PHCL-602 | PHCL-102 | PHCL-202 | PHCL-302 |
| 2" | 50 | PHCL-603 | PHCL-103 | PHCL-203 | PHCL-303 |
| 2.5" | 63 | PHCL-604 | PHCL-104 | PHCL-204 | PHCL-304 |
| 3" | 75 | PHCL-605 | PHCL-105 | PHCL-205 | PHCL-305 |
| 4" | 100 | PHCL-606 | PHCL-106 | PHCL-206 | PHCL-306 |
| 6" | 150 | PHCL-607 | PHCL-107 | PHCL-207 | PHCL-307 |
| 8" | 200 | PHCL-608 | PHCL-108 | PHCL-208 | PHCL-308 |

FEMALE CAMLOCK



| Size | | STANDARD | | | |
|------|-----|----------|----------|----------|----------|
| inch | mm | AL | CS | SS304 | SS316 |
| 1" | 25 | PHCL-609 | PHCL-109 | PHCL-209 | PHCL-309 |
| 1.5" | 38 | PHCL-610 | PHCL-110 | PHCL-210 | PHCL-310 |
| 2" | 50 | PHCL-611 | PHCL-111 | PHCL-211 | PHCL-311 |
| 2.5" | 63 | PHCL-612 | PHCL-112 | PHCL-212 | PHCL-312 |
| 3" | 75 | PHCL-613 | PHCL-113 | PHCL-213 | PHCL-313 |
| 4" | 100 | PHCL-614 | PHCL-114 | PHCL-214 | PHCL-314 |
| 6" | 150 | PHCL-615 | PHCL-115 | PHCL-215 | PHCL-315 |
| 8" | 200 | PHCL-616 | PHCL-116 | PHCL-216 | PHCL-316 |

PRODUCT NOMENCLATURE

R 006 MFM X R 1 0 K

First digit: Grade of Tube
 R – SS 304
 G – SS 316L
 B – SS 321
 W – Loose Braid without tube

Digit 2,3,4: ID of Tube
 6.3mm ID DN 6 – 006
 8.4mm ID DN 8 – 008 and so on...

Digit 5,6,7: Manufacturing Series
 MFM–Mechanical Forming Medium Flexibility
 MFH–Mechanical Forming High Flexibility
 HFM–Hydro Forming Medium Flexibility
 HFH–Hydro Forming Heavy duty

Digit 8: Number of Weld
 X – None .

Digit 9: Grade of Braid
 R – SS 304
 G – SS 316L
 B – SS 321
 0 – None

Digit 10: Number of Braid
 0 – No Braid
 1 – 1 Braid
 2 – 2 Braid
 3 – 3 Braid

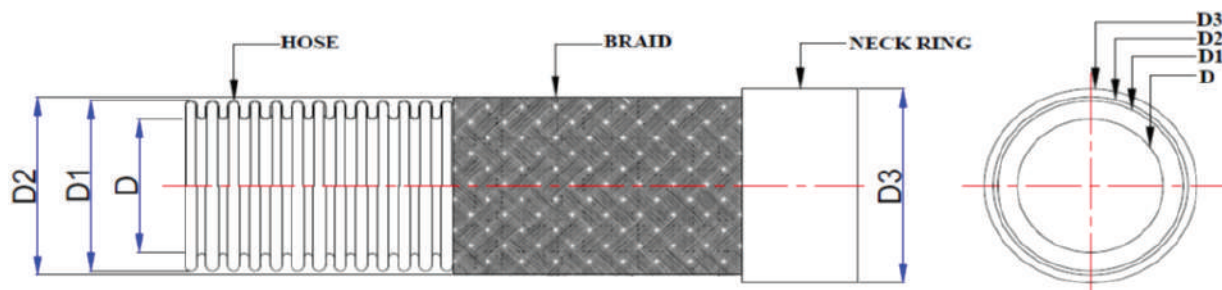
Digit 11: Version
 0 – Standard
 1 – Special Wire

Digit 11: Length of Hose
 K – 15m
 Q – 25m
 P – 30m
 T – 50m

PH 2000 SERIES - MFM

| | |
|--------------------------------|--|
| Structure | Annular corrugated Mechanical formed flexible metal hoses produced from longitudinally welded tubes with or without braiding |
| Characteristics | Light Weight / Medium Flexibility |
| Standards | EN ISO 10380 |
| Hose Material | Stainless Steel AISI 304, AISI 321, AISI 316L |
| Braiding Material | Stainless Steel AISI 304 and AISI 316L |
| Suitable fittings types | Threaded end, Flange end, Pipe end etc as per customer specifications |

Note : Please Contact our sales team for Specific Length



METRIC SYSTEM :







| Item Code | DN | | | | | Braid | | | | | | | |
|--------------|----|---------|---------|----------|--------|-------|--------|---------|-------------------|------------------|------------------|---------------|---------------|
| | | Tube ID | Tube OD | Braid OD | Tol | | Static | Dynamic | SWB* W.P (Max) | DWB W.P (Max) | SWB B.P (Min) | SWB Weight | DWB Weight |
| | | (D) | (D1) | (D2) | (Dx) | | | | | | | | |
| mm | mm | mm | mm | mm | % | mm | mm | bar | bar | bar | Kg/m | Kg/m | |
| R006MFMXR10K | 6 | 6.3 | 9.6 | 10.8 | ± 0.25 | 94 | 25 | 110 | 120 | 180 | 480 | 0.15 | 0.22 |
| R008MFMXR10K | 8 | 8.5 | 12.1 | 13.6 | ± 0.25 | 92 | 32 | 130 | 112 | 168 | 448 | 0.18 | 0.27 |
| R010MFMXR10K | 10 | 10 | 14.1 | 15.7 | ± 0.25 | 92 | 38 | 150 | 97 | 145.5 | 388 | 0.22 | 0.34 |
| R012MFMXR10K | 12 | 12.1 | 16.7 | 18.2 | ± 0.25 | 92 | 45 | 165 | 75 | 112.5 | 300 | 0.25 | 0.39 |
| R016MFMXR10K | 16 | 16.6 | 21.9 | 23.5 | ± 0.25 | 96 | 58 | 195 | 60 | 90 | 240 | 0.38 | 0.57 |
| R020MFMXR10K | 20 | 20.2 | 26.7 | 28.2 | ± 0.25 | 94 | 70 | 225 | 60 | 90 | 240 | 0.53 | 0.78 |
| R025MFMXR10K | 25 | 25.3 | 32.3 | 33.8 | ± 0.30 | 96 | 85 | 260 | 50 | 75 | 200 | 0.62 | 0.88 |
| R032MFMXR10K | 32 | 33.6 | 41.2 | 43 | ± 0.30 | 94 | 105 | 300 | 46 | 69 | 184 | 1.04 | 1.55 |
| R040MFMXR10K | 40 | 40 | 49.5 | 51.3 | ± 0.30 | 92 | 130 | 340 | 42 | 63 | 168 | 1.28 | 1.86 |
| R050MFMXR10K | 50 | 50.4 | 60.7 | 62.6 | ± 0.30 | 96 | 160 | 390 | 32 | 48 | 128 | 1.51 | 2.14 |

NOTE:

1. Test Pressure is 1.5 times of Working Pressure @ 20°C.
2. SWB - Single Wire Braid, DWB - Double Wire Braid, WP - Working Pressure, BP - Burst Pressure.
3. Contact Factory for Temperature correction Factor.
4. THESE INFORMATIONS ARE FOR GUIDANCE ONLY, WE RESERVE THE RIGHT TO ALTER (OR) AMEND SPECIFICATIONS AS DEEMED NECESSARY.
5. General Tolerance is applicable.



IMPERIAL SYSTEM :

| DN | Item Code | Braids | Braid Construction (No of Carriers X No of Strands X Wire Diameter) | Braid |  |  |  |  |  |  | |
|--------|-------------|--------|--|----------|---|---|--|---|---|---|-----------------|
| | | | | Coverage | ID | OD | W.P (Max) @70°F | B.P (Max) @70°F | Dynamic | Static | Weight per Foot |
| | | | | % | inch | inch | psi | psi | inch | inch | lbs |
| 1/4" | R006MFMX000 | 0 | 24 X 4 X 0.012 | 94 | 0.25 | 0.38 | 72 | --- | 4.33 | 0.98 | 0.05 |
| | R006MFMXR10 | 1 | | | 0.25 | 0.43 | 1740 | 6960 | | | 0.10 |
| | R006MFMXR20 | 2 | | | 0.25 | 0.47 | 2610 | 10440 | | | 0.15 |
| 5/16" | R008MFMX000 | 0 | 24 X 5 X 0.012 | 92 | 0.34 | 0.48 | 72 | --- | 5.12 | 1.26 | 0.06 |
| | R008MFMXR10 | 1 | | | 0.34 | 0.54 | 1624 | 6496 | | | 0.12 |
| | R008MFMXR20 | 2 | | | 0.34 | 0.58 | 2537 | 10148 | | | 0.18 |
| 3/8" | R010MFMX000 | 0 | 24 X 6 X 0.012 | 92 | 0.39 | 0.56 | 72 | --- | 5.91 | 1.50 | 0.07 |
| | R010MFMXR10 | 1 | | | 0.39 | 0.62 | 1407 | 5628 | | | 0.15 |
| | R010MFMXR20 | 2 | | | 0.39 | 0.67 | 2110 | 8440 | | | 0.23 |
| 1/2" | R012MFMX000 | 0 | 24 X 7 X 0.012 | 92 | 0.48 | 0.66 | 65 | --- | 6.50 | 1.77 | 0.07 |
| | R012MFMXR10 | 1 | | | 0.48 | 0.72 | 1088 | 4352 | | | 0.17 |
| | R012MFMXR20 | 2 | | | 0.48 | 0.76 | 1632 | 6528 | | | 0.26 |
| 5/8" | R016MFMX000 | 0 | 36 X 7 X 0.012 | 96 | 0.65 | 0.86 | 65 | --- | 7.68 | 2.28 | 0.12 |
| | R016MFMXR10 | 1 | | | 0.65 | 0.93 | 870 | 3480 | | | 0.25 |
| | R016MFMXR20 | 2 | | | 0.65 | 0.97 | 1305 | 5220 | | | 0.38 |
| 3/4" | R020MFMX000 | 0 | 36 X 9 X 0.012 | 94 | 0.80 | 1.05 | 43 | --- | 8.86 | 2.76 | 0.18 |
| | R020MFMXR10 | 1 | | | 0.80 | 1.11 | 870 | 3480 | | | 0.35 |
| | R020MFMXR20 | 2 | | | 0.80 | 1.16 | 1305 | 5220 | | | 0.52 |
| 1" | R025MFMX000 | 0 | 36 X 10 X 0.012 | 96 | 1.00 | 1.27 | 43 | --- | 10.24 | 3.35 | 0.24 |
| | R025MFMXR10 | 1 | | | 1.00 | 1.33 | 725 | 2900 | | | 0.42 |
| | R025MFMXR20 | 2 | | | 1.00 | 1.38 | 1088 | 4352 | | | 0.59 |
| 1 1/4" | R032MFMX000 | 0 | 48 X 8 X 0.016 | 94 | 1.32 | 1.62 | 43 | --- | 11.81 | 4.13 | 0.36 |
| | R032MFMXR10 | 1 | | | 1.32 | 1.69 | 667 | 2668 | | | 0.70 |
| | R032MFMXR20 | 2 | | | 1.32 | 1.76 | 1000 | 4000 | | | 1.04 |
| 1 1/2" | R040MFMX000 | 0 | 48 X 9 X 0.016 | 92 | 1.58 | 1.95 | 28 | --- | 13.39 | 5.12 | 0.47 |
| | R040MFMXR10 | 1 | | | 1.58 | 2.02 | 609 | 2436 | | | 0.86 |
| | R040MFMXR20 | 2 | | | 1.58 | 2.08 | 914 | 3656 | | | 1.25 |
| 2" | R050MFMX000 | 0 | 48 X 10 X 0.016 | 96 | 1.98 | 2.39 | 28 | --- | 15.35 | 6.30 | 0.59 |
| | R050MFMXR10 | 1 | | | 1.98 | 2.47 | 464 | 1856 | | | 1.02 |
| | R050MFMXR20 | 2 | | | 1.98 | 2.53 | 696 | 2784 | | | 1.44 |

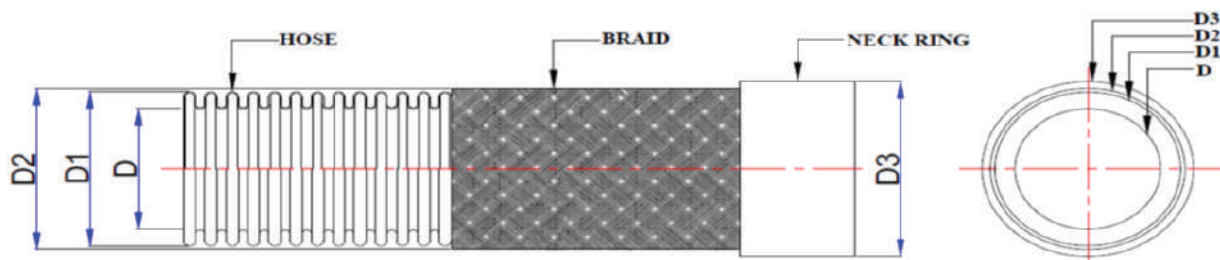
NOTE:

1. Test Pressure is 1.5 times of Working Pressure @ 70°F.
2. WP - Working Pressure, BP - Burst Pressure.
3. Contact Factory for Temperature correction Factor.
4. THESE INFORMATIONS ARE FOR GUIDANCE ONLY, WE RESERVE THE RIGHT TO ALTER (OR) AMEND SPECIFICATIONS AS DEEMED NECESSARY.
5. General Tolerance is applicable.

PH 2100 SERIES-MFM SPECIAL

| | |
|--------------------------------|--|
| Structure | Annular corrugated Mechanical formed flexible metal hoses produced from longitudinally welded tubes with or without braiding |
| Characteristics | Light Weight / Medium Flexibility |
| Standards | EN ISO 10380 |
| Hose Material | Stainless Steel AISI 304, AISI 321, AISI 316L |
| Braiding Material | Stainless Steel AISI 304 and AISI 316L |
| Suitable fittings types | Threaded end, Flange end, Pipe end etc as per customer specifications |

Note : Please Contact our sales team for Specific Length



METRIC SYSTEM :







| Item Code | DN | | | | | Braid | | | | | | | |
|-------------|----|---------|---------|----------|--------|-------|--------|---------|----------------|---------------|---------------|------------|------------|
| | | Tube ID | Tube OD | Braid OD | Tol | | Static | Dynamic | SWB* W.P (Max) | DWB W.P (Max) | SWB B.P (Min) | SWB Weight | DWB Weight |
| | | (D) | (D1) | (D2) | (Dx) | | | | | | | | |
| mm | mm | mm | mm | mm | % | mm | mm | bar | bar | bar | Kg/m | Kg/m | |
| R006MFMSR10 | 6 | 6.3 | 9.6 | 10.8 | ± 0.25 | 94 | 25 | 110 | 162 | 194.4 | 648 | 0.16 | 0.24 |
| R008MFMSR10 | 8 | 8.5 | 12.1 | 13.6 | ± 0.25 | 92 | 32 | 130 | 114 | 137 | 456 | 0.20 | 0.30 |
| R010MFMSR10 | 10 | 10 | 14.1 | 15.7 | ± 0.25 | 92 | 38 | 150 | 110 | 132 | 440 | 0.22 | 0.34 |
| R012MFMSR10 | 12 | 12.1 | 16.7 | 18.2 | ± 0.25 | 92 | 45 | 165 | 89 | 107 | 356 | 0.25 | 0.39 |
| R016MFMSR10 | 16 | 16.6 | 21.9 | 23.5 | ± 0.25 | 96 | 58 | 195 | 80 | 96 | 320 | 0.40 | 0.61 |
| R020MFMSR10 | 20 | 20.2 | 26.7 | 28.2 | ± 0.25 | 94 | 70 | 225 | 70 | 84 | 280 | 0.53 | 0.78 |
| R025MFMSR10 | 25 | 25.3 | 32.3 | 34.2 | ± 0.30 | 96 | 85 | 260 | 58 | 70 | 232 | 0.76 | 1.16 |
| R032MFMSR10 | 32 | 33.6 | 41.2 | 43 | ± 0.30 | 94 | 105 | 300 | 46 | 56 | 184 | 1.04 | 1.55 |
| R040MFMSR10 | 40 | 40 | 49.5 | 51.3 | ± 0.30 | 92 | 130 | 340 | 42 | 52 | 168 | 1.32 | 1.94 |
| R050MFMSR10 | 50 | 50.4 | 60.7 | 63 | ± 0.30 | 96 | 160 | 390 | 38 | 48 | 152 | 1.78 | 2.68 |

NOTE:

- 1.Test Pressure is 1.5 times of Working Pressure @ 20°C.
- 2.SWB - Single Wire Braid, DWB - Double Wire Braid, WP - Working Pressure, BP - Burst Pressure.
- 3.Contact Factory for Temperature correction Factor.
- 4.THESE INFORMATIONS ARE FOR GUIDANCE ONLY, WE RESERVE THE RIGHT TO ALTER (OR) AMEND SPECIFICATIONS AS DEEMED NECESSARY.
- 5.General Tolerance is applicable.



IMPERIAL SYSTEM :

| DN | Item Code | Braids | Braid Construction (No of Carriers X No of Strands X Wire Diameter) | Braid |  |  |  |  |  |  | |
|--------|-------------|--------|--|----------|---|---|--|---|---|---|-----------------|
| | | | | Coverage | ID | OD | W.P (Max) @70°F | B.P (Max) @70°F | Dynamic | Static | Weight per Foot |
| | | | | % | inch | inch | psi | psi | inch | inch | lbs |
| 1/4" | R006MFMS000 | 0 | 24 X 5 X 0.012 | 94 | 0.25 | 0.38 | 72 | --- | 4.33 | 0.98 | 0.05 |
| | R006MFMSR10 | 1 | | | 0.25 | 0.43 | 2370 | 9480 | | | 0.11 |
| | R006MFMSR20 | 2 | | | 0.25 | 0.47 | 2844 | 11376 | | | 0.16 |
| 5/16" | R008MFMS000 | 0 | 24 X 6 X 0.012 | 92 | 0.34 | 0.48 | 72 | --- | 5.12 | 1.26 | 0.06 |
| | R008MFMSR10 | 1 | | | 0.34 | 0.54 | 1650 | 6600 | | | 0.13 |
| | R008MFMSR20 | 2 | | | 0.34 | 0.58 | 1980 | 7920 | | | 0.20 |
| 3/8" | R010MFMS000 | 0 | 24 X 7 X 0.012 | 92 | 0.39 | 0.56 | 72 | --- | 5.91 | 1.50 | 0.07 |
| | R010MFMSR10 | 1 | | | 0.39 | 0.62 | 1600 | 6400 | | | 0.15 |
| | R010MFMSR20 | 2 | | | 0.39 | 0.67 | 1920 | 7680 | | | 0.23 |
| 1/2" | R012MFMS000 | 0 | 24 X 8 X 0.012 | 92 | 0.48 | 0.66 | 65 | --- | 6.50 | 1.77 | 0.07 |
| | R012MFMSR10 | 1 | | | 0.48 | 0.72 | 129 | 5160 | | | 0.17 |
| | R012MFMSR20 | 2 | | | 0.48 | 0.76 | 1548 | 6192 | | | 0.26 |
| 5/8" | R016MFMS000 | 0 | 36 X 8 X 0.012 | 96 | 0.65 | 0.86 | 65 | --- | 7.68 | 2.28 | 0.12 |
| | R016MFMSR10 | 1 | | | 0.65 | 0.93 | 1160 | 4640 | | | 0.27 |
| | R016MFMSR20 | 2 | | | 0.65 | 0.97 | 1332 | 5568 | | | 0.41 |
| 3/4" | R020MFMS000 | 0 | 36 X 9 X 0.012 | 94 | 0.80 | 1.05 | 43 | --- | 8.86 | 2.76 | 0.18 |
| | R020MFMSR10 | 1 | | | 0.80 | 1.11 | 1015 | 4060 | | | 0.35 |
| | R020MFMSR20 | 2 | | | 0.80 | 1.16 | 1218 | 4872 | | | 0.52 |
| 1" | R025MFMS000 | 0 | 36 X 9 X 0.016 | 96 | 1.00 | 1.27 | 43 | --- | 10.24 | 3.35 | 0.24 |
| | R025MFMSR10 | 1 | | | 1.00 | 1.35 | 840 | 3360 | | | 0.51 |
| | R025MFMSR20 | 2 | | | 1.00 | 1.39 | 1008 | 4032 | | | 0.78 |
| 1 1/4" | R032MFMS000 | 0 | 48 X 8 X 0.016 | 94 | 1.32 | 1.62 | 43 | --- | 11.81 | 4.13 | 0.36 |
| | R032MFMSR10 | 1 | | | 1.32 | 1.69 | 665 | 2660 | | | 0.70 |
| | R032MFMSR20 | 2 | | | 1.32 | 1.76 | 798 | 3192 | | | 1.04 |
| 1 1/2" | R040MFMS000 | 0 | 48 X 9 X 0.016 | 92 | 1.58 | 1.95 | 28 | --- | 13.39 | 5.12 | 0.47 |
| | R040MFMSR10 | 1 | | | 1.58 | 2.02 | 605 | 2420 | | | 0.86 |
| | R040MFMSR20 | 2 | | | 1.58 | 2.08 | 726 | 2904 | | | 1.25 |
| 2" | R050MFMS000 | 0 | 48 X 9 X 0.020 | 96 | 1.98 | 2.39 | 28 | --- | 15.35 | 6.30 | 0.59 |
| | R050MFMSR10 | 1 | | | 1.98 | 2.48 | 550 | 2200 | | | 1.20 |
| | R050MFMSR20 | 2 | | | 1.98 | 2.54 | 660 | 2640 | | | 1.80 |

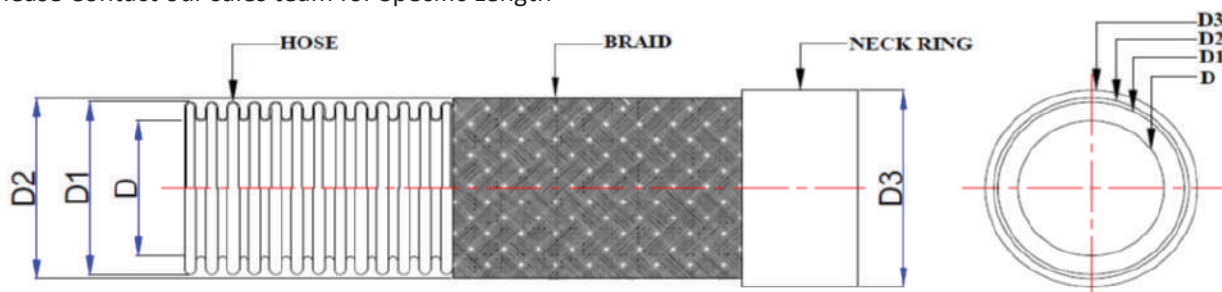
NOTE:

- 1.Test Pressure is 1.5 times of Working Pressure @ 70°F.
- 2.WP - Working Pressure, BP - Burst Pressure.
- 3.Contact Factory for Temperature correction Factor.
- 4.THESE INFORMATIONS ARE FOR GUIDANCE ONLY, WE RESERVE THE RIGHT TO ALTER (OR) AMEND SPECIFICATIONS AS DEEMED NECESSARY.
- 5.General Tolerance is applicable.

PH 2200 SERIES-MFH

| | |
|--------------------------------|--|
| Structure | Annular corrugated Mechanical formed flexible metal hoses produced from longitudinally welded tubes with or without braiding |
| Characteristics | Medium Weight / High Flexibility |
| Standards | EN ISO 10380 |
| Hose Material | Stainless Steel AISI 304, AISI 321, AISI 316L |
| Braiding Material | Stainless Steel AISI 304 and AISI 316L |
| Suitable fittings types | Threaded end, Flange end, Pipe end etc as per customer specifications |

Note : Please Contact our sales team for Specific Length



METRIC SYSTEM :







| Item Code | DN | | | | | Braid | | | | | | | | |
|--------------|-----|------|-------|-------|--------|-------|----------|--------|---------|----------------|---------------|---------------|------------|------------|
| | | (D) | (D1) | (D2) | (Dx) | | Coverage | Static | Dynamic | SWB* W.P (Max) | DWB W.P (Max) | SWB B.P (Min) | SWB Weight | DWB Weight |
| | | mm | mm | mm | mm | | % | mm | mm | bar | bar | bar | Kg/m | Kg/m |
| R006MFHXR10K | 6 | 6.3 | 9.6 | 10.8 | ± 0.25 | 95 | 25 | 77 | 120 | 180 | 480 | 0.19 | 0.26 | |
| R008MFHXR10K | 8 | 8.5 | 12.1 | 13.6 | ± 0.25 | 92 | 32 | 91 | 112 | 168 | 448 | 0.25 | 0.35 | |
| R010MFHXR10K | 10 | 10 | 14.1 | 15.7 | ± 0.25 | 93 | 38 | 105 | 97 | 145.5 | 388 | 0.29 | 0.43 | |
| R012MFHXR10K | 12 | 12.1 | 16.7 | 18.2 | ± 0.25 | 92 | 45 | 116 | 75 | 112.5 | 300 | 0.33 | 0.49 | |
| R016MFHXR10K | 16 | 16.6 | 21.9 | 23.5 | ± 0.25 | 93 | 58 | 136 | 60 | 90 | 240 | 0.54 | 0.75 | |
| R020MFHXR10K | 20 | 20.2 | 26.7 | 28.2 | ± 0.25 | 96 | 70 | 158 | 60 | 90 | 240 | 0.73 | 1.02 | |
| R025MFHXR10K | 25 | 25.3 | 32.3 | 34.2 | ± 0.30 | 95 | 85 | 182 | 50 | 75 | 200 | 1.06 | 1.46 | |
| R032MFHXR10K | 32 | 33.6 | 41.2 | 43 | ± 0.30 | 95 | 105 | 210 | 46 | 69 | 184 | 1.18 | 1.63 | |
| R040MFHXR10K | 40 | 40 | 49.5 | 51.3 | ± 0.30 | 94 | 130 | 238 | 42 | 63 | 168 | 1.58 | 2.20 | |
| R050MFHXR10K | 50 | 50.4 | 60.7 | 63 | ± 0.50 | 94 | 160 | 273 | 32 | 48 | 128 | 2.40 | 3.30 | |
| R065MFHXR10K | 65 | 62.8 | 76.3 | 78.9 | ± 0.50 | 95 | 200 | 460 | 30 | 36 | 120 | 2.35 | 3.49 | |
| R080MFHXR10K | 80 | 78.7 | 94.5 | 97.1 | ± 0.60 | 93 | 240 | 660 | 25 | 30 | 100 | 3.19 | 4.49 | |
| R100MFHXR10K | 100 | 97.8 | 114.2 | 116.7 | ± 0.60 | 90 | 290 | 750 | 19 | 23 | 76 | 4.00 | 5.40 | |

NOTE:

- 1.Test Pressure is 1.5 times of Working Pressure @ 20°C.
- 2.SWB - Single Wire Braid, DWB - Double Wire Braid, WP - Working Pressure, BP - Burst Pressure.
- 3.Contact Factory for Temperature correction Factor.
- 4.THESE INFORMATIONS ARE FOR GUIDANCE ONLY, WE RESERVE THE RIGHT TO ALTER (OR) AMEND SPECIFICATIONS AS DEEMED NECESSARY.
- 5.General Tolerance is applicable.



IMPERIAL SYSTEM :

| DN | Item Code | Braids | Braid Construction (No of Carriers X No of Strands X Wire Diameter) | Braid |  ID |  OD |  WP |  BP |  BR/r | |  W |
|--------|-------------|--------|--|----------|--|--|---|--|--|--------|---|
| | | | | Coverage | (D) | (D1 & D2) | W.P (Max) @70°F | B.P (Max) @70°F | Dynamic | Static | Weight per Foot |
| | | | | % | inch | inch | psi | psi | inch | inch | |
| 1/4" | R006MFHX000 | 0 | 24 X 5 X 0.012 | 95 | 0.25 | 0.38 | 72 | --- | 3.03 | 0.98 | 0.08 |
| | R006MFHXR10 | 1 | | | 0.25 | 0.43 | 1740 | 6960 | | | 0.13 |
| | R006MFHXR20 | 2 | | | 0.25 | 0.46 | 2610 | 10440 | | | 0.18 |
| 5/16" | R008MFHX000 | 0 | 24 X 6 X 0.012 | 92 | 0.34 | 0.48 | 72 | --- | 3.58 | 1.26 | 0.10 |
| | R008MFHXR10 | 1 | | | 0.34 | 0.54 | 1624 | 6496 | | | 0.17 |
| | R008MFHXR20 | 2 | | | 0.34 | 0.57 | 2537 | 10148 | | | 0.24 |
| 3/8" | R010MFHX000 | 0 | 24 X 7 X 0.012 | 93 | 0.39 | 0.56 | 72 | --- | 4.13 | 1.50 | 0.11 |
| | R010MFHXR10 | 1 | | | 0.39 | 0.62 | 1407 | 5628 | | | 0.19 |
| | R010MFHXR20 | 2 | | | 0.39 | 0.67 | 2110 | 8440 | | | 0.27 |
| 1/2" | R012MFHX000 | 0 | 24 X 8 X 0.012 | 92 | 0.48 | 0.66 | 65 | --- | 4.57 | 1.77 | 0.11 |
| | R012MFHXR10 | 1 | | | 0.48 | 0.72 | 1088 | 4352 | | | 0.21 |
| | R012MFHXR20 | 2 | | | 0.48 | 0.76 | 1632 | 6528 | | | 0.30 |
| 5/8" | R016MFHX000 | 0 | 36 X 8 X 0.012 | 93 | 0.65 | 0.86 | 65 | --- | 5.35 | 2.28 | 0.20 |
| | R016MFHXR10 | 1 | | | 0.65 | 0.93 | 870 | 3480 | | | 0.34 |
| | R016MFHXR20 | 2 | | | 0.65 | 0.98 | 1305 | 5220 | | | 0.48 |
| 3/4" | R020MFHX000 | 0 | 36 X 9 X 0.012 | 96 | 0.80 | 1.05 | 43 | --- | 6.22 | 2.76 | 0.30 |
| | R020MFHXR10 | 1 | | | 0.80 | 1.11 | 870 | 3480 | | | 0.47 |
| | R020MFHXR20 | 2 | | | 0.80 | 1.17 | 1305 | 5220 | | | 0.64 |
| 1" | R025MFHX000 | 0 | 36 X 9 X 0.016 | 95 | 1.00 | 1.27 | 43 | --- | 7.17 | 3.35 | 0.39 |
| | R025MFHXR10 | 1 | | | 1.00 | 1.33 | 725 | 2900 | | | 0.66 |
| | R025MFHXR20 | 2 | | | 1.00 | 1.39 | 1088 | 4352 | | | 0.93 |
| 1 1/4" | R032MFHX000 | 0 | 48 X 8 X 0.016 | 95 | 1.32 | 1.62 | 43 | --- | 8.27 | 4.13 | 0.51 |
| | R032MFHXR10 | 1 | | | 1.32 | 1.69 | 667 | 2668 | | | 0.84 |
| | R032MFHXR20 | 2 | | | 1.32 | 1.75 | 1000 | 4000 | | | 1.18 |
| 1 1/2" | R040MFHX000 | 0 | 48 X 9 X 0.016 | 94 | 1.58 | 1.95 | 28 | --- | 9.37 | 5.12 | 0.66 |
| | R040MFHXR10 | 1 | | | 1.58 | 2.02 | 609 | 2436 | | | 1.05 |
| | R040MFHXR20 | 2 | | | 1.58 | 2.08 | 914 | 3656 | | | 1.44 |
| 2" | R050MFHX000 | 0 | 48 X 9 X 0.020 | 94 | 1.98 | 2.39 | 28 | --- | 10.75 | 6.30 | 0.83 |
| | R050MFHXR10 | 1 | | | 1.98 | 2.47 | 464 | 1856 | | | 1.43 |
| | R050MFHXR20 | 2 | | | 1.98 | 2.53 | 696 | 2784 | | | 2.04 |
| 2 1/2" | R065MFHX000 | 0 | 72 X 7 X 0.020 | 95 | 2.47 | 3.00 | 15 | --- | 18.11 | 7.87 | 0.81 |
| | R065MFHXR10 | 1 | | | 2.47 | 3.11 | 435 | 1740 | | | 1.58 |
| | R065MFHXR20 | 2 | | | 2.47 | 3.19 | 522 | 2088 | | | 2.35 |
| 3" | R080MFHX000 | 0 | 72 X 9 X 0.020 | 93 | 3.10 | 3.72 | 15 | --- | 25.98 | 9.45 | 1.27 |
| | R080MFHXR10 | 1 | | | 3.10 | 3.82 | 363 | 1452 | | | 2.14 |
| | R080MFHXR20 | 2 | | | 3.10 | 3.90 | 435.6 | 1742.4 | | | 3.02 |
| 4" | R100MFHX000 | 0 | 72 X 10 X 0.020 | 88 | 3.85 | 4.50 | 15 | --- | 29.53 | 11.42 | 1.75 |
| | R100MFHXR10 | 1 | | | 3.85 | 4.59 | 276 | 1104 | | | 2.69 |
| | R100MFHXR20 | 2 | | | 3.85 | 4.67 | 331.2 | 1324.8 | | | 3.63 |

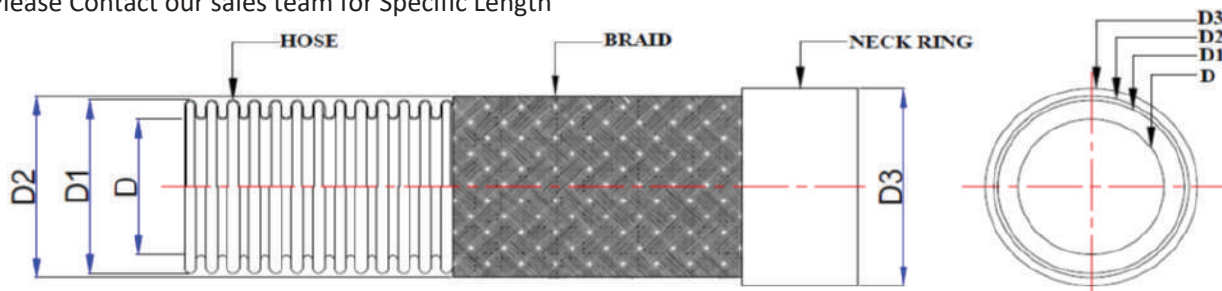
NOTE:

1. Test Pressure is 1.5 times of Working Pressure @ 70°F.
2. WP - Working Pressure, BP - Burst Pressure.
3. Contact Factory for Temperature correction Factor.
4. THESE INFORMATIONS ARE FOR GUIDANCE ONLY, WE RESERVE THE RIGHT TO ALTER (OR) AMEND SPECIFICATIONS AS DEEMED NECESSARY.
5. General Tolerance is applicable.

PH 2300 SERIES-HFH

| | |
|--------------------------------|---|
| Structure | Annular corrugated Mechanical / Hydroformed flexible metal hoses produced from longitudinally welded tubes with or without braiding |
| Characteristics | Heavy Weight / Flexible Hose |
| Standards | EN ISO 10380 |
| Hose Material | Stainless Steel AISI 304, AISI 321, AISI 316L |
| Braiding Material | Stainless Steel AISI 304 and AISI 316L |
| Suitable fittings types | Threaded end, Flange end, Pipe end etc as per customer specifications |

Note : Please Contact our sales team for Specific Length



METRIC SYSTEM :







| Item Code | DN | | | | | Braid | | | | | | | | |
|--------------|-----|------|------|-------|--------|-------|----------|--------|---------|----------------|---------------|---------------|------------|------------|
| | | (D) | (D1) | (D2) | (Dx) | | Coverage | Static | Dynamic | SWB* W.P (Max) | DWB W.P (Max) | SWB B.P (Min) | SWB Weight | DWB Weight |
| | | mm | mm | mm | mm | | % | mm | mm | bar | bar | bar | Kg/m | Kg/m |
| R006HFHXR10K | 6 | 6.0 | 10.1 | 12.2 | ± 0.50 | 98 | 26 | 125 | 172 | 258 | 688 | 0.25 | 0.39 | |
| R008HFHXR10K | 8 | 7.6 | 12.2 | 14.5 | ± 0.50 | 98 | 26 | 125 | 160 | 240 | 640 | 0.30 | 0.44 | |
| R010HFHXR10K | 10 | 11 | 16.2 | 18 | ± 0.50 | 98 | 32 | 140 | 120 | 180 | 480 | 0.39 | 0.60 | |
| R012HFHXR10K | 12 | 14.5 | 21.1 | 22.9 | ± 0.50 | 94 | 40 | 155 | 85 | 127.5 | 340 | 0.55 | 0.78 | |
| R020HFHXR10K | 20 | 20.6 | 30.7 | 32.5 | ± 0.50 | 95 | 58 | 205 | 65 | 97.5 | 260 | 0.96 | 1.28 | |
| R025HFHXR10K | 25 | 27.3 | 38.5 | 40.3 | ± 0.50 | 92 | 70 | 230 | 50 | 75 | 200 | 1.17 | 1.54 | |
| R032HFHXR10K | 32 | 31.6 | 45 | 46.6 | ± 0.50 | 95 | 90 | 270 | 42 | 63 | 168 | 1.49 | 2.05 | |
| R040HFHXR10K | 40 | 40.3 | 55 | 56.6 | ± 0.50 | 95 | 100 | 310 | 38 | 57 | 152 | 1.75 | 2.37 | |
| R050HFHXR10K | 50 | 49.5 | 65 | 67 | ± 1.00 | 95 | 130 | 390 | 37 | 55.5 | 148 | 2.46 | 3.46 | |
| R065HFHXR10K | 65 | 64.8 | 83 | 85 | ± 1.00 | 96 | 200 | 460 | 34 | 51 | 136 | 2.76 | 3.94 | |
| R080HFHXR10K | 80 | 79.8 | 97.5 | 100 | ± 1.00 | 96 | 230 | 570 | 27 | 40.5 | 108 | 3.09 | 4.39 | |
| R100HFHXR10K | 100 | 99.8 | 120 | 122.5 | ± 1.00 | 96 | 330 | 690 | 20 | 30 | 80 | 4.10 | 5.69 | |
| R125HFHXR10K | 125 | 130 | 154 | 157 | ± 1.50 | 93 | 350 | 1000 | 16 | 24 | 64 | 6.72 | 9.84 | |
| R150HFHXR10K | 150 | 154 | 180 | 183 | ± 1.50 | 90 | 400 | 1250 | 12 | 18 | 48 | 9.10 | 12.50 | |
| R200HFHXR10K | 200 | 204 | 233 | 237 | ± 1.50 | 90 | 520 | 1600 | 9 | 13.5 | 36 | 12.45 | 16.50 | |
| R250HFHXR10K | 250 | 254 | 282 | 287 | ± 1.50 | 90 | 620 | 2000 | 7 | 10.5 | 28 | 16.15 | 21.81 | |

NOTE:

- 1.Test Pressure is 1.5 times of Working Pressure @ 20°C.
- 2.SWB - Single Wire Braid, DWB - Double Wire Braid, WP - Working Pressure, BP - Burst Pressure.
- 3.Contact Factory for Temperature correction Factor.
- 4.THESE INFORMATIONS ARE FOR GUIDANCE ONLY, WE RESERVE THE RIGHT TO ALTER (OR) AMEND SPECIFICATIONS AS DEEMED NECESSARY.
- 5.General Tolerance is applicable.



IMPERIAL SYSTEM :

| DN | Item Code | Braids | Braid Construction (No of Carriers X No of Strands X Wire Diameter) | Braid |  ID |  OD |  WP |  BP |  BR/r |  W | |
|--------|-------------|--------|--|----------|--|--|---|--|--|---|-----------------|
| | | | | Coverage | (D) | (D1 & D2) | W.P (Max) @70°F | B.P (Max) @70°F | Dynamic | Static | Weight per Foot |
| | | | | % | inch | inch | psi | psi | inch | inch | lbs |
| 1/4" | R006HFHX000 | 0 | 24 X 5 X 0.014 | 98 | 0.24 | 0.40 | 200 | --- | 5.00 | 1.00 | 0.08 |
| | R006HFHXR10 | 1 | | | 0.24 | 0.48 | 2494 | 9976 | | | 0.17 |
| | R006HFHXR20 | 2 | | | 0.24 | 0.56 | 3741 | 14964 | | | 0.26 |
| 5/16" | R008HFHX000 | 0 | 24 X 6 X 0.014 | 98 | 0.30 | 0.48 | 180 | --- | 5.00 | 1.00 | 0.11 |
| | R008HFHXR10 | 1 | | | 0.30 | 0.57 | 2321 | 9284 | | | 0.20 |
| | R008HFHXR20 | 2 | | | 0.30 | 0.63 | 3481.5 | 13926 | | | 0.30 |
| 3/8" | R010HFHX000 | 0 | 24 X 8 X 0.014 | 98 | 0.43 | 0.64 | 100 | --- | 5.55 | 1.26 | 0.12 |
| | R010HFHXR10 | 1 | | | 0.43 | 0.71 | 1740 | 6960 | | | 0.26 |
| | R010HFHXR20 | 2 | | | 0.43 | 0.80 | 2610 | 10440 | | | 0.40 |
| 1/2" | R012HFHX000 | 0 | 24 X 9 X 0.014 | 94 | 0.57 | 0.83 | 80 | --- | 6.10 | 1.58 | 0.22 |
| | R012HFHXR10 | 1 | | | 0.57 | 0.90 | 1233 | 4932 | | | 0.37 |
| | R012HFHXR20 | 2 | | | 0.57 | 0.98 | 1849.5 | 7398 | | | 0.52 |
| 3/4" | R020HFHX000 | 0 | 36 X 9 X 0.014 | 95 | 0.81 | 1.21 | 70 | --- | 8.10 | 2.28 | 0.43 |
| | R020HFHXR10 | 1 | | | 0.81 | 1.28 | 943 | 3772 | | | 0.65 |
| | R020HFHXR20 | 2 | | | 0.81 | 1.35 | 1414 | 5656 | | | 0.86 |
| 1" | R025HFHX000 | 0 | 36 X 10 X 0.014 | 92 | 1.08 | 1.52 | 40 | --- | 9.00 | 2.76 | 0.54 |
| | R025HFHXR10 | 1 | | | 1.08 | 1.59 | 725 | 2900 | | | 0.79 |
| | R025HFHXR20 | 2 | | | 1.08 | 1.66 | 1087.5 | 4350 | | | 1.04 |
| 1 1/4" | R032HFHX000 | 0 | 48 X 9 X 0.016 | 95 | 1.24 | 1.77 | 25 | --- | 10.63 | 3.54 | 0.63 |
| | R032HFHXR10 | 1 | | | 1.24 | 1.84 | 609 | 2436 | | | 1.00 |
| | R032HFHXR20 | 2 | | | 1.24 | 1.90 | 914 | 3656 | | | 1.37 |
| 1 1/2" | R040HFHX000 | 0 | 48 X 10 X 0.016 | 95 | 1.59 | 2.17 | 20 | --- | 12.21 | 3.94 | 0.76 |
| | R040HFHXR10 | 1 | | | 1.59 | 2.23 | 551 | 2204 | | | 1.17 |
| | R040HFHXR20 | 2 | | | 1.59 | 2.29 | 827 | 3306 | | | 1.59 |
| 2" | R050HFHX000 | 0 | 48 X 10 X 0.020 | 95 | 1.95 | 2.56 | 15 | --- | 15.35 | 5.12 | 0.98 |
| | R050HFHXR10 | 1 | | | 1.95 | 2.64 | 537 | 2148 | | | 1.65 |
| | R050HFHXR20 | 2 | | | 1.95 | 2.72 | 806 | 3222 | | | 2.32 |
| 2 1/2" | R065HFHX000 | 0 | 72 X 8 X 0.020 | 94 | 2.55 | 3.27 | 12 | --- | 20.10 | 7.87 | 1.07 |
| | R065HFHXR10 | 1 | | | 2.55 | 3.35 | 493 | 1972 | | | 1.86 |
| | R065HFHXR20 | 2 | | | 2.55 | 3.43 | 740 | 2958 | | | 2.65 |
| 3" | R080HFHX000 | 0 | 72 X 9 X 0.020 | 96 | 3.14 | 3.84 | 10 | --- | 22.44 | 9.06 | 1.20 |
| | R080HFHXR10 | 1 | | | 3.14 | 3.94 | 392 | 1568 | | | 2.07 |
| | R080HFHXR20 | 2 | | | 3.14 | 4.03 | 588 | 2352 | | | 2.95 |
| 4" | R100HFHX000 | 0 | 72 X 11 X 0.020 | 96 | 3.93 | 4.72 | 8 | --- | 27.17 | 12.99 | 1.68 |
| | R100HFHXR10 | 1 | | | 3.93 | 4.82 | 290 | 1160 | | | 2.75 |
| | R100HFHXR20 | 2 | | | 3.93 | 4.92 | 435 | 1740 | | | 3.72 |
| 5" | R125HFHX000 | 0 | 72 X 11 X 0.028 | 93 | 5.12 | 6.06 | 6 | --- | 39.37 | 13.78 | 2.42 |
| | R125HFHXR10 | 1 | | | 5.12 | 6.20 | 232 | 928 | | | 4.52 |
| | R125HFHXR20 | 2 | | | 5.12 | 6.31 | 348 | 1392 | | | 6.61 |
| 6" | R150HFHX000 | 0 | 72 X 11 X 0.028 | 90 | 6.06 | 7.11 | 5 | --- | 49.21 | 15.75 | 3.83 |
| | R150HFHXR10 | 1 | | | 6.06 | 7.19 | 174 | 696 | | | 6.12 |
| | R150HFHXR20 | 2 | | | 6.06 | 7.31 | 261 | 1044 | | | 8.40 |
| 8" | R200HFHX000 | 0 | 96 X 9 X 0.028 | 90 | 8.03 | 9.19 | 5 | --- | 62.99 | 20.47 | 5.65 |
| | R200HFHXR10 | 1 | | | 8.03 | 9.29 | 131 | 524 | | | 8.37 |
| | R200HFHXR20 | 2 | | | 8.03 | 9.44 | 197 | 786 | | | 11.09 |
| 10" | R250HFHX000 | 0 | 96 X 12 X 0.028 | 90 | 10.00 | 11.18 | 3 | --- | 78.74 | 24.41 | 7.05 |
| | R250HFHXR10 | 1 | | | 10.00 | 11.30 | 102 | 408 | | | 10.85 |
| | R250HFHXR20 | 2 | | | 10.00 | 11.41 | 153 | 612 | | | 14.65 |

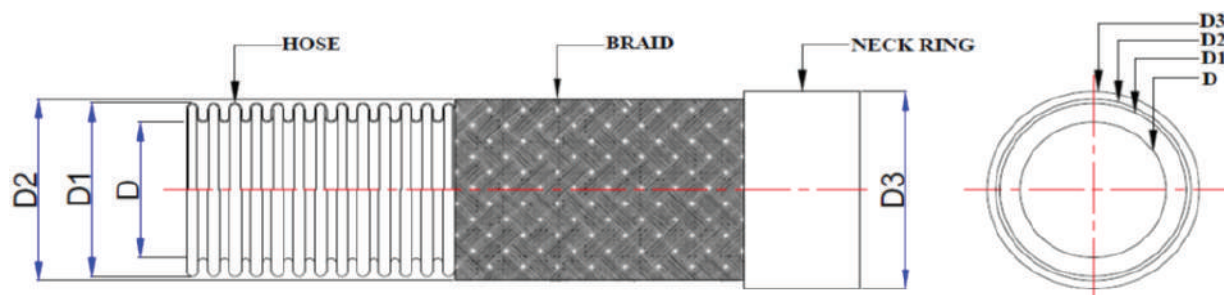
NOTE:

1. Test Pressure is 1.5 times of Working Pressure @ 70°F.
2. WP - Working Pressure, BP - Burst Pressure.
3. Contact Factory for Temperature correction Factor.
4. THESE INFORMATIONS ARE FOR GUIDANCE ONLY, WE RESERVE THE RIGHT TO ALTER (OR) AMEND SPECIFICATIONS AS DEEMED NECESSARY.
5. General Tolerance is applicable.

PH 2400 SERIES - HFM

| | |
|--------------------------------|--|
| Structure | Annular corrugated Hydroformed flexible metal hoses produced from longitudinally welded tubes with or without braiding |
| Characteristics | Light Weight / Medium Flexibility |
| Standards | EN ISO 10380 |
| Hose Material | Stainless Steel AISI 304, AISI 321, AISI 316L |
| Braiding Material | Stainless Steel AISI 304 and AISI 316L |
| Suitable fittings types | Threaded end, Flange end, Pipe end etc as per customer specifications |

Note : Please Contact our sales team for Specific Length



METRIC SYSTEM :







| Item Code | DN | | | | | Braid | | WP | | W | | | |
|------------|-----|---------|---------|----------|--------|---------|----------------|---------------|---------------|------------|------------|-------|-------|
| | | Tube ID | Tube OD | Braid OD | Tol | | | | | | | | |
| | | (D) | (D1) | (D2) | (Dx) | | | | | | | | |
| mm | mm | mm | mm | % | Static | Dynamic | SWB* W.P (Max) | DWB W.P (Max) | SWB B.P (Min) | SWB Weight | DWB Weight | | |
| | | | | | | | mm | mm | bar | bar | bar | Kg/m | Kg/m |
| R032HFMR10 | 32 | 31.6 | 43.2 | 44.8 | ± 0.50 | 90 | 105 | 300 | 30 | 45 | 120 | 0.75 | 1.11 |
| R040HFMR10 | 40 | 40.3 | 51.5 | 53.1 | ± 0.50 | 92 | 130 | 340 | 30 | 45 | 120 | 1.05 | 1.61 |
| R050HFMR10 | 50 | 49.5 | 62.7 | 64.3 | ± 1.00 | 96 | 160 | 390 | 24 | 36 | 96 | 1.27 | 1.88 |
| R065HFMR10 | 65 | 64.8 | 78.3 | 80.3 | ± 1.00 | 94 | 200 | 460 | 22 | 33 | 88 | 1.88 | 2.91 |
| R080HFMR10 | 80 | 79.8 | 96.5 | 98.5 | ± 1.00 | 96 | 240 | 660 | 18 | 27 | 72 | 2.35 | 3.54 |
| R100HFMR10 | 100 | 99.8 | 116.2 | 118.2 | ± 1.00 | 94 | 290 | 750 | 16 | 24 | 64 | 2.89 | 4.36 |
| R125HFMR10 | 125 | 130 | 154 | 157.5 | ± 1.50 | 92 | 350 | 1000 | 14 | 21 | 56 | 5.13 | 7.44 |
| R150HFMR10 | 150 | 154 | 180.5 | 182.5 | ± 1.50 | 90 | 400 | 1250 | 10 | 15 | 40 | 5.91 | 8.40 |
| R200HFMR10 | 200 | 204 | 233.4 | 236 | ± 1.50 | 90 | 520 | 1600 | 8 | 12 | 32 | 8.64 | 11.69 |
| R250HFMR10 | 250 | 254 | 282 | 285 | ± 1.50 | 90 | 620 | 2000 | 7.5 | 11.25 | 30 | 13.97 | 19.62 |

NOTE:

1. Test Pressure is 1.5 times of Working Pressure @ 20°C
2. SWB - Single Wire Braid, DWB - Double Wire Braid, WP - Working Pressure, BP - Burst Pressure
3. Contact Factory for Temperature correction Factor.
4. THESE INFORMATIONS ARE FOR GUIDANCE ONLY, WE RESERVE THE RIGHT TO ALTER (OR) AMEND SPECIFICATIONS AS DEEMED NECESSARY.
5. General Tolerance is applicable .



IMPERIAL SYSTEM :

| DN | Item Code | Braids | Braid Construction (No of Carriers X No of Strands X Wire Diameter) | Braid |  |  |  |  |  | |  |
|--------|-------------|--------|--|----------|---|---|--|---|---|--------|---|
| | | | | Coverage | ID | OD | W.P (Max) @70°F | B.P (Max) @70°F | Dynamic | Static | Weight per Foot |
| | | | | % | inch | inch | psi | psi | inch | inch | lbs |
| 1 1/4" | R032HFMX000 | 0 | 48 X 8 X 0.016 | 92 | 1.24 | 1.70 | 17 | --- | 11.81 | 4.13 | 0.26 |
| | R032HFMR10 | 1 | | 1.24 | 1.78 | 435 | 1740 | 0.59 | | | |
| | R032HFMR20 | 2 | | 1.24 | 1.83 | 653 | 2612 | 0.93 | | | |
| 1 1/2" | R040HFMX000 | 0 | 48 X 9 X 0.016 | 92 | 1.59 | 2.03 | 17 | --- | 13.39 | 5.12 | 0.33 |
| | R040HFMR10 | 1 | | 1.59 | 2.09 | 435 | 1740 | 0.71 | | | |
| | R040HFMR20 | 2 | | 1.59 | 2.15 | 653 | 2612 | 1.08 | | | |
| 2" | R050HFMX000 | 0 | 48 X 10 X 0.016 | 96 | 1.95 | 2.47 | 15 | --- | 15.35 | 6.30 | 0.44 |
| | R050HFMR10 | 1 | | 1.95 | 2.53 | 348 | 1392 | 0.85 | | | |
| | R050HFMR20 | 2 | | 1.95 | 2.59 | 522 | 2088 | 1.27 | | | |
| 2 1/2" | R065HFMX000 | 0 | 72 X 7 X 0.020 | 94 | 2.55 | 3.08 | 12 | --- | 18.11 | 7.87 | 0.57 |
| | R065HFMR10 | 1 | | 2.55 | 3.16 | 319 | 1276 | 1.26 | | | |
| | R065HFMR20 | 2 | | 2.55 | 3.24 | 479 | 1916 | 1.96 | | | |
| 3" | R080HFMX000 | 0 | 72 X 8 X 0.020 | 96 | 3.14 | 3.80 | 10 | --- | 25.98 | 9.45 | 0.77 |
| | R080HFMR10 | 1 | | 3.14 | 3.88 | 261 | 1044 | 1.58 | | | |
| | R080HFMR20 | 2 | | 3.14 | 3.95 | 392 | 1568 | 2.38 | | | |
| 4" | R100HFMX000 | 0 | 72 X 10 X 0.020 | 94 | 3.93 | 4.58 | 8 | --- | 29.53 | 11.42 | 0.95 |
| | R100HFMR10 | 1 | | 3.93 | 4.65 | 232 | 928 | 1.94 | | | |
| | R100HFMR20 | 2 | | 3.93 | 4.73 | 348 | 1392 | 2.93 | | | |
| 5" | R125HFMX000 | 0 | 72 X 10 X 0.024 | 92 | 5.12 | 6.06 | 6 | --- | 39.37 | 13.78 | 1.95 |
| | R125HFMR10 | 1 | | 5.12 | 6.20 | 203 | 812 | 3.44 | | | |
| | R125HFMR20 | 2 | | 5.12 | 6.30 | 305 | 1220 | 4.94 | | | |
| 6" | R150HFMX000 | 0 | 72 X 11 X 0.024 | 90 | 6.06 | 7.11 | 5 | --- | 49.21 | 15.75 | 2.30 |
| | R150HFMR10 | 1 | | 6.06 | 7.21 | 145 | 580 | 3.97 | | | |
| | R150HFMR20 | 2 | | 6.06 | 7.28 | 218 | 872 | 5.64 | | | |
| 8" | R200HFMX000 | 0 | 96 X 9 X 0.026 | 90 | 8.03 | 9.19 | 5 | --- | 62.99 | 20.47 | 3.76 |
| | R200HFMR10 | 1 | | 8.03 | 9.33 | 116 | 464 | 5.81 | | | |
| | R200HFMR20 | 2 | | 8.03 | 9.40 | 174 | 696 | 7.86 | | | |
| 10" | R250HFMX000 | 0 | 96 X 12 X 0.028 | 90 | 10.00 | 11.10 | 3 | --- | 78.74 | 24.41 | 5.59 |
| | R250HFMR10 | 1 | | 10.00 | 11.22 | 109 | 436 | 9.39 | | | |
| | R250HFMR20 | 2 | | 10.00 | 11.33 | 163 | 652 | 13.19 | | | |

NOTE:

- 1.Test Pressure is 1.5 times of Working Pressure @ 70°F.
- 2.WP - Working Pressure, BP - Burst Pressure.
- 3.Contact Factory for Temperature correction Factor.
- 4.THESE INFORMATIONS ARE FOR GUIDANCE ONLY, WE RESERVE THE RIGHT TO ALTER (OR) AMEND SPECIFICATIONS AS DEEMED NECESSARY.
- 5.General Tolerance is applicable.

HYDRAULIC FITTING CODIFICATION - INSERTS / 1 PIECE FITTINGS



1 COMPONENT TYPE

| CODE | DESCR |
|------|-----------------|
| 1 | INSERT - 1P/2P |
| 2 | FERRULE - 1P/2P |
| 3 | 1P FITTING |

2 **3** INSERT TYPE

| CODE | DESCR |
|------|----------------------|
| 10 | 2P - MT-HH |
| 15 | 2P - HH-PH |
| 25 | 2P - HH-TP |
| 28 | 2P - HH-TP-JACK |
| 30 | 2P - MS |
| 40 | 2P - IL |
| 47 | 2P - IL-WB |
| 50 | 1P - HHWB |
| 55 | 1P - HHWS - 4SP-R12 |
| 60 | 1P - HHWS - 4SH-R13 |
| 65 | 1P - HHWS - 4SH-DN51 |
| 66 | 1P - HHWS - R13-DN51 |
| 97 | RU-R18 |
| 98 | RU-R5 |
| 99 | RU-1SN/2SN |

4 **5** TERMINATION CODE

| CODE | DESCR |
|------|--------------|
| 01 | BSPP |
| 02 | BSPP ORING |
| 03 | BSPP FLAT F |
| 04 | BSPT |
| 08 | BSP BANJO |
| 11 | JIC 37 |
| 12 | SAE ORB |
| 13 | SAE 45 FLARE |
| 14 | SAE 45 INV F |
| 21 | NPT |
| 22 | NPS |
| 23 | NPTF |
| 24 | NPSM |
| 31 | ORFS |
| 32 | ORFS SH |
| 41 | SAE FL61 |
| 42 | SAE FL62 |
| 51 | M-SP |
| 52 | M-FS |
| 53 | M-CEL |
| 54 | M-CES |

| CODE | DESCR |
|------|------------|
| 55 | M-DKOL |
| 56 | M-DKOS |
| 57 | M BANJO |
| 60 | M-60 CONE |
| 65 | JIS-TYPE C |
| 66 | JIS-TYPE F |
| 67 | JIS-PF |
| 68 | JIS-PT |
| 71 | KOM-M |
| 72 | KOM-FL |
| 73 | CAT-FL |
| 81 | SL |
| 82 | SSL |
| 91 | PW |
| 92 | HH |
| 93 | BR |
| 94 | SW |
| 95 | BW |

6 TOPOLOGY

| CODE | DESCR |
|------|-------------|
| 0 | 00.0 DEGREE |
| 2 | 22.5 DEGREE |
| 3 | 30.0 DEGREE |
| 4 | 45.0 DEGREE |
| 6 | 60.0 DEGREE |
| 7 | 67.5 DEGREE |
| 9 | 90.0 DEGREE |
| A | 110 DEGREE |
| C | 135 DEGREE |

7 OTHER SPECIFICATION

| CODE | DESCR |
|------|-----------------|
| 0 | NORMAL |
| S | SHORT DROP |
| L | LONG DROP |
| B | BULKHEAD |
| K | KNOCKING COLLAR |
| H | DOUBLE HEX |
| C | COMPACT |
| 1 | 4 BOLT FLANGE |
| 2 | SPLIT FLANGE |

8 HEAD TYPE

| CODE | DESCR |
|------|-------|
| 0 | N/A |
| 1 | FS-CN |
| 2 | FS-SN |
| 3 | FS-TN |
| 4 | FF |

| CODE | DESCR |
|------|---------|
| 5 | M |
| 6 | MCS |
| 7 | M OR-RR |
| 8 | MS |
| A | BJ |
| B | BJB |

9 DASH

10 **11** HOSE SIZE

12 **13** THREAD SIZE

14 FINISH GOODS

| CODE | DESCR |
|------|----------------|
| 0 | FINISHED GOODS |

15 MATERIAL TYPE

| CODE | DESCR |
|------|--------------------|
| 0 | CARBON STEEL |
| 1 | SS304 |
| 2 | SS316 |
| 3 | SS304 INS - CS NUT |
| 4 | SS316 INS - CS NUT |

HYDRAULIC FITTING CODIFICATION - INSERTS / 1 PIECE FITTINGS

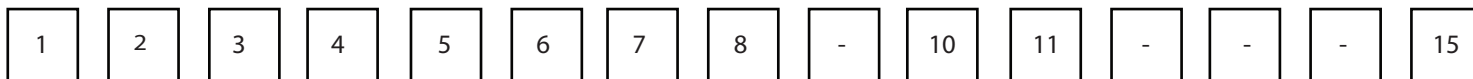
TERMINATION CODE

| CODE | SHORT DESCR | DESCRIPTION |
|------|--------------|-----------------------------------|
| 01 | BSPP | BRITISH STANDARD PIPE |
| 02 | BSPP ORING | BRITISH STANDARD PIPE ORING |
| 03 | BSPP FLAT F | BRITISH STANDARD PIPE FLAT FACE |
| 04 | BSPT | BRITISH STANDARD PIPE TAPERED |
| 08 | BSP BANJO | BRITISH STANDARD PIPE BANJO |
| 11 | JIC 37 | JIC 37° CONE |
| 12 | SAE ORB | SAE ORING BOSS |
| 13 | SAE 45 FLARE | SAE 45° FLARE |
| 14 | SAE 45 INV F | SAE 45° INVERTED FLARE |
| 21 | NPT | NATIONAL PIPE TAPER |
| 22 | NPS | NATIONAL PIPE STRAIGHT |
| 23 | NPTF | NATIONAL PIPE TAPER FUEL |
| 24 | NPSM | NATIONAL PIPE STRAIGHT MECHANICAL |
| 31 | ORFS | ORING FACE SEAL |
| 32 | ORFS SH | ORING FACE SEAL SINGLE HEXAGON |
| 41 | SAE FL61 | SAE FLANGE 3000 PSI CODE 61 |
| 42 | SAE FL62 | SAE FLANGE 6000 PSI CODE 62 |
| 51 | M-SP | METRIC STAND PIPE |
| 52 | M-FS | METRIC FLAT SEAT |
| 53 | M-CEL | METRIC - CEL |
| 54 | M-CES | METRIC - CES |
| 55 | M-DKOL | METRIC 24° CONE - ORING - LIGHT |
| 56 | M-DKOS | METRIC 24° CONE - ORING - HEAVY |
| 57 | M BANJO | METRIC BANJO |
| 60 | M-60 CONE | METRIC 60° CONE |
| 65 | JIS-TYPE C | JIS TYPE C |
| 66 | JIS-TYPE F | JIS TYPE F |
| 67 | JIS-PF | JIS PARALLEL PIPE THREAD |
| 68 | JIS-PT | JIS TAPER PIPE THREAD |
| 71 | KOM-M | KOMATSU METRIC |
| 72 | KOM-FL | KOMATSU FLANGE |
| 73 | CAT-FL | CAT FLANGE |
| 81 | SL | STAPLE LOCK |
| 82 | SSL | SUPER STAPLE LOCK |
| 91 | PW | POWER WASH |
| 92 | HH | HOSE TO HOSE - HOSE MENDER |
| 93 | BR | BRAZE ON |
| 94 | SW | SOCKET WELD |
| 95 | BW | BUTT WELD |

HEAD TYPE

| CODE | SHORT DESCR | DESCRIPTION |
|------|-------------|-------------------------------|
| 0 | N/A | NOT APPLICABLE |
| 1 | FS-CN | FEMALE SWIVEL CRIMP NUT |
| 2 | FS-SN | FEMALE SWIVEL SLIP ON NUT |
| 3 | FS-TN | FEMALE SWIVEL THRUST WIRE NUT |
| 4 | FF | FEMALE FIXED |
| 5 | M | MALE |
| 6 | MCS | MALE CAPTIVE SEAL |
| 7 | M OR-RR | MALE ORING AND RETAINING RING |
| 8 | MS | MALE SWIVEL |
| A | BJ | BANJO |
| B | BJB | BANJO BOLT |

HYDRAULIC FITTING CODIFICATION - FERRULES



| CODE | DESCR |
|------|-----------------|
| 1 | INSERT - 1P/2P |
| 2 | FERRULE - 1P/2P |
| 3 | 1P FITTING |

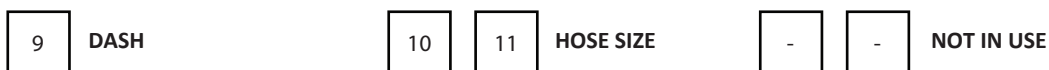
| CODE | DESCR |
|------|----------------------|
| 10 | 2P - MT-HH |
| 15 | 2P - HH-PH |
| 25 | 2P - HH-TP |
| 28 | 2P - HH-TP-JACK |
| 30 | 2P - MS |
| 40 | 2P - IL |
| 47 | 2P - IL-WB |
| 50 | 1P - HHWB |
| 55 | 1P - HHWS - 4SP-R12 |
| 60 | 1P - HHWS - 4SH-R13 |
| 65 | 1P - HHWS - 4SH-DN51 |
| 66 | 1P - HHWS - R13-DN51 |
| 97 | RU-R18 |
| 98 | RU-R5 |
| 99 | RU-1SN/2SN |

| CODE | DESCR |
|-------|-----------------------------------|
| 10050 | NS - 1SC (DN06, DN08, DN10) |
| 10150 | NS - 1SC (DN12, DN16, DN19, DN25) |
| | NS - 2SC/1SN |
| 10200 | NS - 2SN |
| 10210 | NS - 1SN/2SC/2SN |
| 10300 | NS - R3/3TE |
| 10400 | NS - R12 |
| 10700 | NS - R18 |
| 10750 | NS - R7 |
| | NS - R8 (DN06, DN08, DN10, DN12) |
| 10780 | NS - JACK HOSE |
| 10800 | NS - PLT |
| 10900 | NS - PTFE |

| | |
|-------|---|
| 20100 | SK - 1SN (DN31, DN38, DN51) |
| 20250 | SK - 1SN (DN06 to DN25) |
| | SK - 2SN/2SC |
| | SK - R12 (DN16, DN19, DN25) |
| 20400 | SK - 4SP (DN06, DN10, DN12, DN16, DN19) |
| | SK - R12 (DN10, DN12) |
| 20405 | SK - 4SH 110 SERIES (DN19, DN25, DN32) |
| 20410 | SK - 4SH |

| | |
|-------|---------------------------------|
| 30420 | IL - 4SH/R13/R15 (DN19, DN25) |
| 30430 | IL - 4SH (DN31, DN38, DN50) |
| 30600 | IL - R13/R15 (DN31, DN38, DN51) |
| 30650 | IL - WATERBLAST |

| | |
|-------|-------------------------------|
| 15150 | NS - 1P - 1SC/1SN/2SC/2SN/R17 |
| 15400 | NS - 1P - 4SP-R12 |
| 15500 | NS - 1P - 4SH-R13 |



| CODE | DESCR |
|------|----------------|
| 0 | FINISHED GOODS |

| CODE | DESCR |
|------|--------------------|
| 0 | CARBON STEEL |
| 1 | SS304 |
| 2 | SS316 |
| 3 | SS304 INS - CS NUT |
| 4 | SS316 INS - CS NUT |

FERRULES - MULTITYPE - 210 SERIES

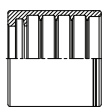
NO SKIVE - FE2P-MT



21010050
1SC



21010150
1SC/1SN/R1AT/
2SC/R16



21010200
2SN/R2AT



21010210
1SN/R1AT/2SC/
R16/2SN/R2AT



21020250
R6/2TE



21010300
R3/3TE/R4/R5



21010400
R12



21010750
R7/R8



21010800
PLT



21010900
PTFE

SKIVE - FE2P-MT



21020100
1SN/R1AT



21020250
1SN/R1AT/2SC/
R16/2SN/R2AT/R12



21020400
4SP/R12



21020405
4SH

INSERTS - MULTITYPE - 110 SERIES

BSP - HF2P-MT



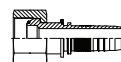
11004005
BSPT M



11001005
BSPP M



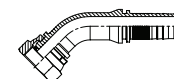
11002001
BSPP OR FS (CRN)



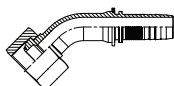
11002002
BSPP OR FS (SON)



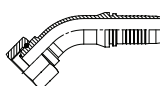
11002003
BSPP OR FS (TWN)



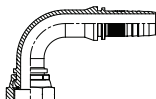
11002401
BSPP OR FS 45 (CRN)



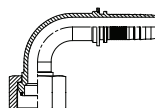
11002402
BSPP OR FS 45 (SON)



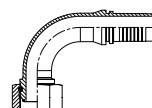
11002403
BSPP OR FS 45 (TWN)



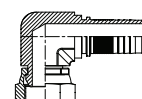
11002901
BSPP OR FS 90 (CRN)



11002902
BSPP OR FS 90 (SON)



11002903
BSPP OR FS 90 (TWN)



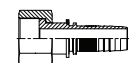
110029C1
BSPP FS 90 CP (CRN)



11003005
BSPP FSEAT M



11003001
BSPP FSEAT FS (CRN)



11003002
BSPP FSEAT FS (SON)

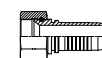
JIC 37° - HF2P-MT



11011005
JIC M



11011001
JIC FS (CRN)



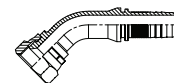
11011003
JIC FS (TWN)



110110H1
JIC FS DH (CRN)



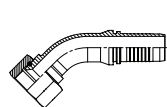
110110H3
JIC FS DH (TWN)



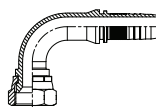
11011401
JIC FS 45 (CRN)

HYDRAULIC - FITTINGS REFERENCE CHART

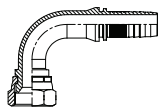
JIC 37°- HF2P-MT



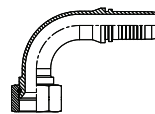
11011403
JIC FS 45 (TWN)



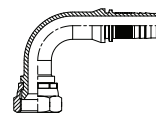
110119S1
JIC FS 90 SD (CRN)



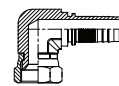
11011901
JIC FS 90 (CRN)



11011903
JIC FS 90 (TWN)



110119L1
JIC FS 90 LD (CRN)

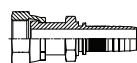


110119C1
JIC FS 90 CP (CRN)

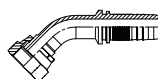
ORFS - HF2P-MT



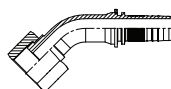
11031005
ORFS M



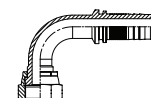
11031001
ORFS FS (CRN)



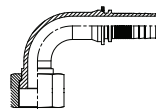
11031401
ORFS FS 45 (CRN)



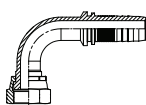
11031402
ORFS FS 45 (SON)



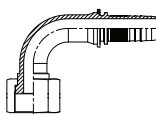
110319S1
ORFS FS 90 SD (CRN)



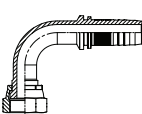
110319S2
ORFS FS 90 SD (SON)



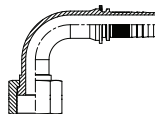
11031901
ORFS FS 90 (CRN)



11031902
ORFS FS 90 (SON)



110319L1
ORFS FS 90 LD (CRN)

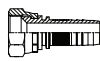


110319L2
ORFS FS 90 LD (SON)

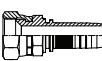
SAE - HF2P-MT



11012005
SAE ORB M



11013001
SAE 45 SEAT FS (CRN)



110130H1
SAE 45 SEAT DH FS (CRN)

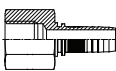
NPTF - HF2P-MT



11023005
NPTF M

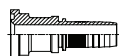


11023008
NPTF MS

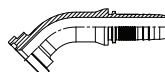


11023004
NPTF FF

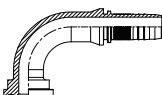
SAE FLANGE - HF2P-MT



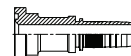
11041000
SAE 61 3K FL



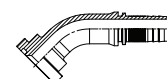
11041400
SAE 61 3K FL 45



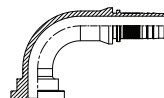
11041900
SAE 61 3K FL 90



11042000
SAE 62 6K FL

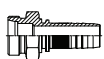


11042400
SAE 62 6K FL 45



11042900
SAE 62 6K FL 90

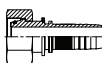
METRIC - HF2P-MT



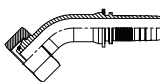
11053005
M24 CEL M



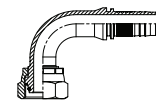
11055001
M24 DKOL FS (CRN)



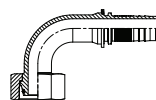
11055002
M24 DKOL FS (SON)



11055402
M24 DKOL FS 45 (SON)



11055901
M24 DKOL FS 90 (CRN)

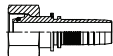


11055902
M24 DKOL FS 90 (SON)

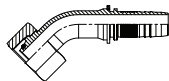
METRIC - HF2P-MT



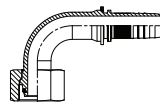
11054005
M24 CES M



11056002
M24 DKOS FS (SON)



11056402
M24 DKOS FS 45 (SON)



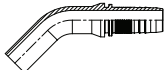
11056902
M24 DKOS FS 90 (SON)



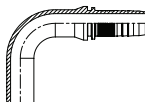
11060001
METRIC 60C FS (CRN)



11051000
MSP

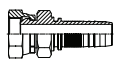


11051400
MSP 45



11051900
MSP 90

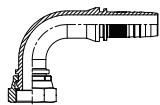
JIS - HF2P-MT



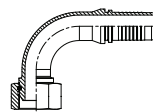
11065001
JIS C FS (CRN)



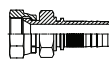
11065003
JIS C FS (TWN)



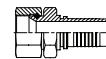
11065901
JIS C FS 90 (CRN)



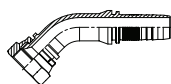
11065903
JIS C FS 90 (TWN)



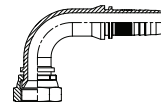
11066001
JIS F FS (CRN)



11066003
JIS F FS (TWN)



11066401
JIS F FS 45 (CRN)

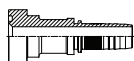


11066901
JIS F FS 90 (CRN)

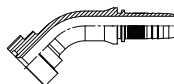


11071001
KOMATSU FS (CRN)

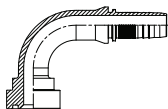
OEM - HF2P-MT



11073000
SCAT 9K FL

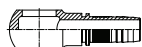


11073400
SCAT 9K FL 45



11073900
SCAT 9K FL 90

BANJO - HF2P-MT



110010A0
BSPP BANJO



110570A0
METRIC BANJO

HYDRAULIC - FITTINGS REFERENCE CHART

ACCESSORIES - HF2P-MT



11092000
H-H



11093000
BRAZE TAIL



110010B0
BSP BANJO BOLT



110570B0
METRIC BANJO BOLT

FERRULES - MULTISPIRAL - 230 SERIES

SKIVE - FE2P-MS



23020410
4SH

INSERTS - MULTISPIRAL - 130 SERIES

BSP - HF2P-MS



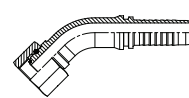
13004005
BSPT M



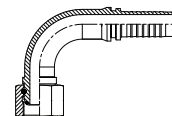
13001005
BSPP M



13002003
BSPP OR FS (TWN)



13002403
BSPP OR FS 45 (TWN)



13002903
BSPP OR FS 90 (TWN)

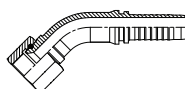
JIC 37° - HF2P-MS



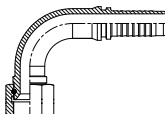
13011005
JIC M



13011003
JIC FS (TWN)

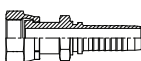


13011403
JIC FS 45 (TWN)

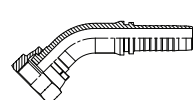


13011903
JIC FS 90 (TWN)

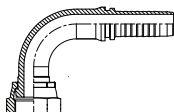
ORFS - HF2P-MS



13031001
ORFS FS (CRN)



13031401
ORFS FS 45 (CRN)



13031901
ORFS FS 90 (CRN)

NPTF - HF2P-MS



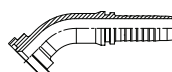
13023005
NPTF M

10

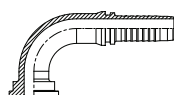
SAE FLANGE - HF2P-MS



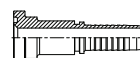
13041000
SAE 61 3K FL



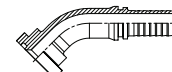
13041400
SAE 61 3K FL 45



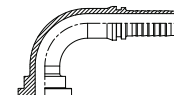
13041900
SAE 61 3K FL 90



13042000
SAE 62 6K FL

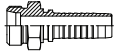


13042400
SAE 62 6K FL 45

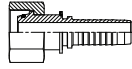


13042900
SAE 62 6K FL 90

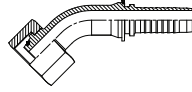
METRIC - HF2P-MS



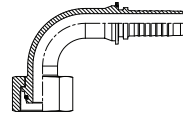
13054005
M24 CES M



13056002
M24 DKOS FS (SON)



13056402
M24 DKOS FS 45 (SON)

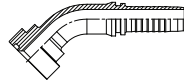


13056902
M24 DKOS FS 90 (SON)

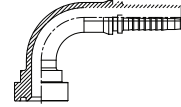
OEM - HF2P-MS



13073000
SCAT 9K FL



13073400
SCAT 9K FL 45



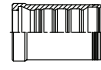
13073900
SCAT 9K FL 90

FERRULES - INTERLOCK - 240 SERIES

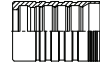
INTERLOCK - FE2P-IL



24030420
4SH/R13/R15



24030430
4SH



24030600
R13/R15

INSERTS - INTERLOCK - 140 SERIES

BSP - HF2P-IL



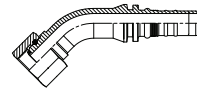
14004005
BSPT M



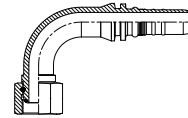
14001005
BSPP M



14002003
BSPP OR FS (TWN)



14002403
BSPP OR FS 45 (TWN)



14002903
BSPP OR FS 90 (TWN)

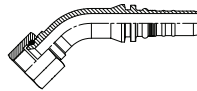
JIC 37° - HF2P-IL



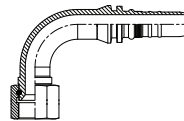
14011005
JIC M



14011003
JIC FS (TWN)



14011403
JIC FS 45 (TWN)

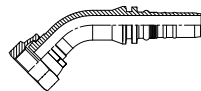


14011903
JIC FS 90 (TWN)

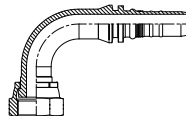
ORFS - HF2P-IL



14031001
ORFS FS (CRN)



14031401
ORFS FS 45 (CRN)



14031901
ORFS FS 90 (CRN)

NPTF - HF2P-IL



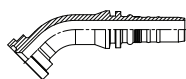
14023005
NPTF M

HYDRAULIC - FITTINGS REFERENCE CHART

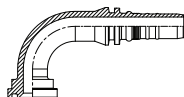
SAE FLANGE - HF2P-IL



14041000
SAE 61 3K FL



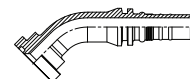
14041400
SAE 61 3K FL 45



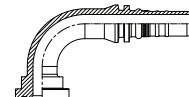
14041900
SAE 61 3K FL 90



14042000
SAE 62 6K FL

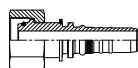


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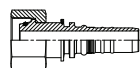


14042900
SAE 62 6K FL 90

METRIC- HF2P-IL



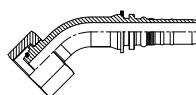
14054005
M24 CES M



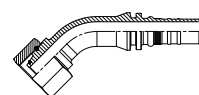
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M24 DKOS FS (SON)



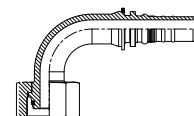
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M24 DKOS FS (TWN)



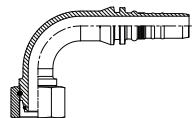
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M24 DKOS FS 45 (SON)



14056403
M24 DKOS FS 45 (TWN)

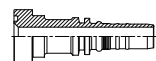


14056902
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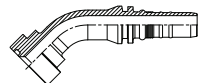


14056903
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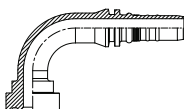
OEM - HF2P-IL



14073000
SCAT 9K FL



14073400
SCAT 9K FL 45



14073900
SCAT 9K FL 90

ACCESSORIES

FLANGE CLAMP



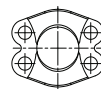
11041020
SAE 61 3K SFL



11042020
SAE 62 6K SFL



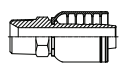
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SAE 61 3K 4FL



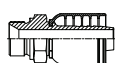
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SAE 62 6K 4FL

ONE PIECE - WB - 1SC / 1SN / R1AT / 2SC / R16 / 2SN / R2AT / R17

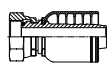
BSP - HF1P-WB



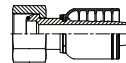
35004005
BSPT M



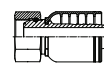
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BSPP M



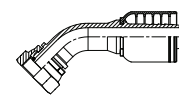
35002001
BSPP OR FS (CRN)



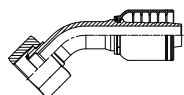
35002002
BSPP OR FS (SON)



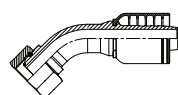
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BSPP OR FS (TWN)



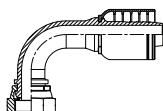
35002401
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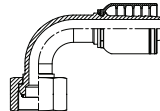
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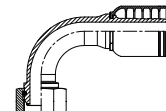
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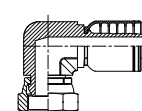
35002901
BSPP OR FS 90 (CRN)



35002902
BSPP OR FS 90 (SON)



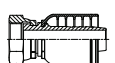
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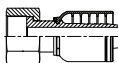
350029C1
BSPP OR FS 90 CP (CRN)



35003005
BSPP FSEAT M

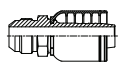


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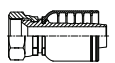


35003002
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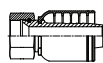
JIC 37° - HF1P-WB



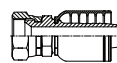
35011005
JIC M



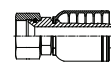
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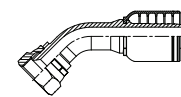
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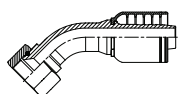
350110H1
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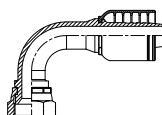
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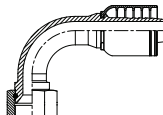
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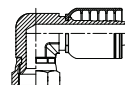
35011403
JIC FS 45 (TWN)



35011901
JIC FS 90 (CRN)



35011903
JIC FS 90 (TWN)

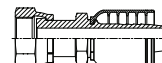


350119C1
JIC FS 90 CP (CRN)

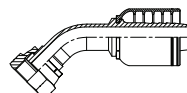
ORFS - HF1P-WB



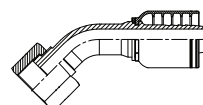
35031005
ORFS M



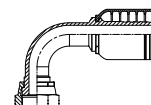
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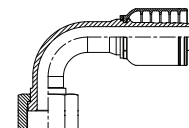
35031401
ORFS FS 45 (CRN)



35031402
ORFS FS 45 (SON)

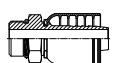


35031901
ORFS FS 90 (CRN)

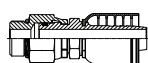


35031902
ORFS FS 90 (SON)

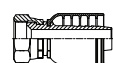
SAE - HF1P-WB



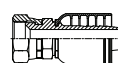
35012005
SAE ORB M



35012008
SAE ORB MS



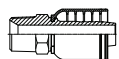
35013001
SAE 45 SEAT FS (CRN)



350130H1
SAE 45 SEAT DH FS (CRN)

HYDRAULIC - FITTINGS REFERENCE CHART

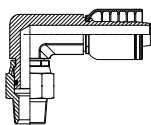
NPTF - HF1P-WB



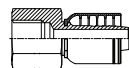
35023005
NPTF M



35023008
NPTF MS

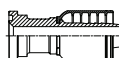


350239C8
NPTF MS CP

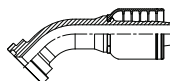


35023004
NPTF FF

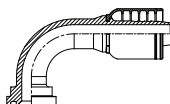
SAE FLANGE - HF1P-WB



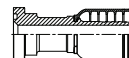
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SAE 61 3K FL



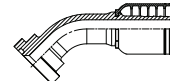
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SAE 61 3K FL 45



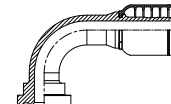
35041900
SAE 61 3K FL 90



35042000
SAE 62 6K FL

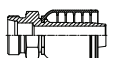


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SAE 62 6K FL 45

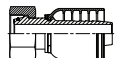


35042900
SAE 62 6K FL 90

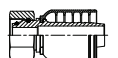
METRIC - HF1P-WB



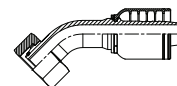
35053005
M24 CEL M



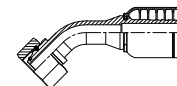
35055002
M24 DKOL FS (SON)



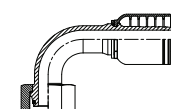
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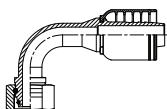
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M24 DKOL FS 45 (SON)



35055403
M24 DKOL FS 45 (TWN)



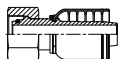
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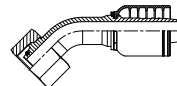
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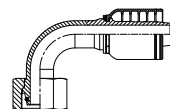
35054005
M24 CES M



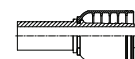
35056002
M24 DKOS FS (SON)



35056402
M24 DKOS FS 45 (SON)

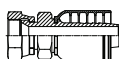


35056902
M24 DKOS FS 90 (SON)

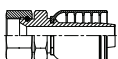


35051000
MSP

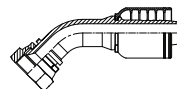
JIS - HF1P-WB



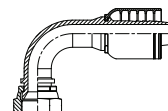
35066001
JIS F FS (CRN)



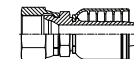
35066003
JIS F FS (TWN)



35066401
JIS F FS 45 (CRN)

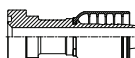


35066901
JIS F FS 90 (CRN)

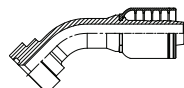


35071001
KOMATSU FS (CRN)

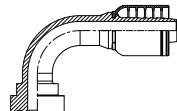
OEM - HF1P-WB



35073000
SCAT 9K FL



35073400
SCAT 9K FL 45



35073900
SCAT 9K FL 90

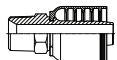
ACCESSORIES - HF1P-WB



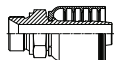
35092000
H-H

ONE PIECE - WIRE SPIRAL - 4SP / R12 / 4SH -12 -16 - 355 SERIES

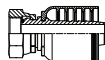
BSP - HF1P-WS 4SP-R12 - 4SH -12 -16



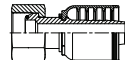
35504005
BSPT M



35501005
BSPP M



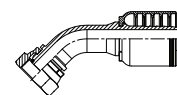
35502001
BSPP OR FS (CRN)



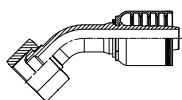
35502002
BSPP OR FS (SON)



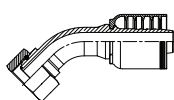
35502003
BSPP OR FS (TWN)



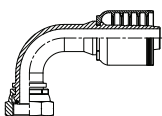
35502401
BSPP OR FS 45 (CRN)



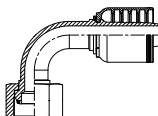
35502402
BSPP OR FS 45 (SON)



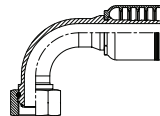
35502403
BSPP OR FS 45 (TWN)



35502901
BSPP OR FS 90 (CRN)



35502902
BSPP OR FS 90 (SON)



35502903
BSPP OR FS 90 (TWN)

JIC 37°- HF1P-WS 4SP-R12 - 4SH -12 -16



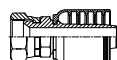
35511005
JIC M



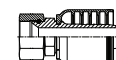
35511001
JIC FS (CRN)



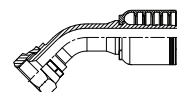
35511003
JIC FS (TWN)



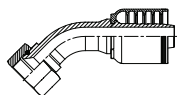
355110H1
JIC FS DH (CRN)



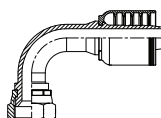
355110H3
JIC FS DH (TWN)



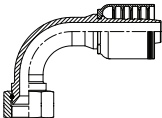
35511401
JIC FS 45 (CRN)



35511403
JIC FS 45 (TWN)



35511901
JIC FS 90 (CRN)

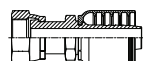


35511903
JIC FS 90 (TWN)

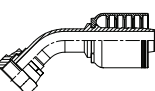
ORFS - HF1P-WS 4SP-R12 - 4SH -12 -16



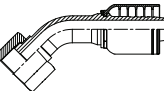
35531005
ORFS M



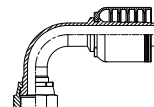
35531001
ORFS FS (CRN)



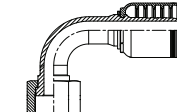
35531401
ORFS FS 45 (CRN)



35531402
ORFS FS 45 (SON)



35531901
ORFS FS 90 (CRN)



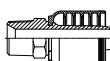
35531902
ORFS FS 90 (SON)

SAE - HF1P-WS 4SP-R12 - 4SH -12 -16



35512005
SAE ORB M

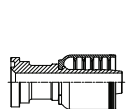
NPTF - HF1P-WS 4SP-R12 - 4SH -12 -16



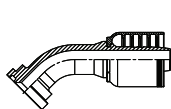
35523005
NPTF M

HYDRAULIC - FITTINGS REFERENCE CHART

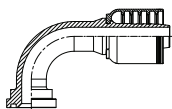
SAE FLANGE - HF1P-WS 4SP-R12 - 4SH -12 -16



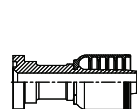
35541000
SAE 61 3K FL



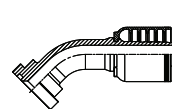
35541400
SAE 61 3K FL 45



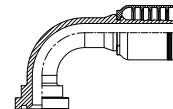
35541900
SAE 61 3K FL 90



35542000
SAE 62 6K FL

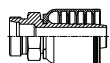


35542400
SAE 62 6K FL 45

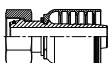


35542900
SAE 62 6K FL 90

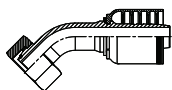
METRIC - HF1P-WS 4SP-R12 - 4SH -12 -16



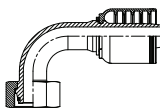
35553005
M24 CEL M



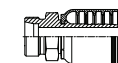
35555002
M24 DKOL FS (SON)



35555402
M24 DKOL FS 45 (SON)



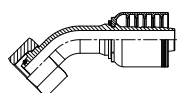
35555902
M24 DKOL FS 90 (SON)



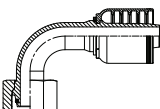
35554005
M24 CES M



35556002
M24 DKOS FS (SON)

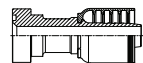


35556402
M24 DKOS FS 45 (SON)

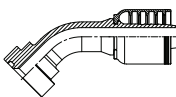


35556902
M24 DKOS FS 90 (SON)

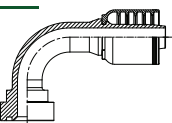
OEM - HF1P-WS 4SP-R12 - 4SH -12 -16



35573000
SCAT 9K FL



35573400
SCAT 9K FL 45



35573900
SCAT 9K FL 90

ONE PIECE - WIRE SPIRAL - 4SH / R13 / R15 - 360 SERIES

BSP - HF1P-WS 4SH-R13-R15 / 4SH-R13 -32



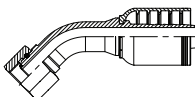
36004005
BSPT M



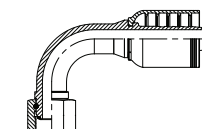
36001005
BSPP M



36002003
BSPP OR FS (TWN)

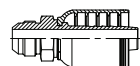


36002403
BSPP OR FS 45 (TWN)

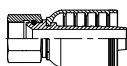


36002903
BSPP OR FS 90 (TWN)

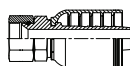
JIC 37° - HF1P-WS 4SH-R13-R15 / 4SH-R13 -32



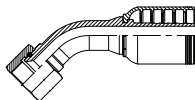
36011005
JIC M



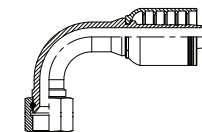
36011003
JIC FS (TWN)



360110H3
JIC FS DH (TWN)

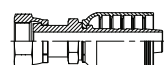


36011403
JIC FS 45 (TWN)

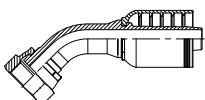


36011903
JIC FS 90 (TWN)

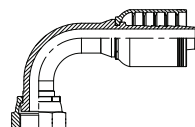
ORFS - HF1P-WS 4SH-R13-R15 / 4SH-R13 -32



36031001
ORFS FS (CRN)

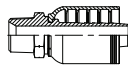


36031401
ORFS FS 45 (CRN)



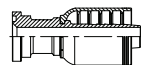
36031901
ORFS FS 90 (CRN)

NPTF - HF1P-WS 4SH-R13-R15 / 4SH-R13 -32

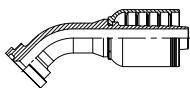


36023005
NPTF M

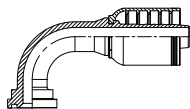
SAE FLANGE - HF1P-WS 4SH-R13-R15 / 4SH-R13 -32



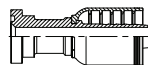
36041000
SAE 61 3K FL



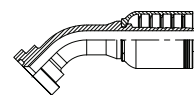
36041400
SAE 61 3K FL



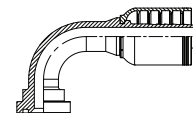
36041900
SAE 61 3K FL 90



36042000
SAE 62 6K FL



36042400
SAE 62 6K FL 45

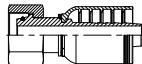


36042900
SAE 62 6K FL 90

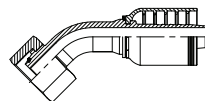
METRIC - HF1P-WS 4SH-R13-R15 / 4SH-R13 -32



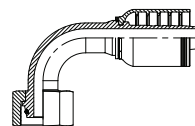
36054005
M24 CES M



36056002
M24 DKOS FS (SON)

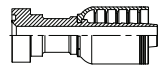


36056402
M24 DKOS FS 45 (SON)

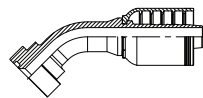


36056902
M24 DKOS FS 90 (SON)

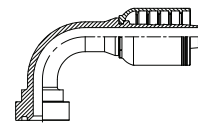
OEM - HF1P-WS 4SH-R13-R15 / 4SH-R13 -32



36073000
SCAT 9K FL



36073400
SCAT 9K FL 45



36073900
SCAT 9K FL 90

HYDRAULIC FITTINGS - INSERT AND FERRULE SELECTION CHART

TWO PIECE FITTINGS

| HOSE TYPE | | | | WIRE BRAID | | | | | | |
|--------------|---------------|---------------|----------------|---|---|---|--|---|---|--------------|
| FITTING TYPE | INSERT SERIES | ASSEMBLY TYPE | FERRULE SERIES | EN 857 1SC | EN 853 1SN SAE 100 R1AT | EN 857 2SC SAE 100 R16 | EN 853 2SN SAE 100 R2AT | SAE 100 R17 | PILOT | SAE 100 R5 |
| MT | 110 | NO SKIVE | 21010050 | -04 → -06 DN 06 → DN 10 1/4" → 3/8" | | | | | | |
| MT | 110 | NO SKIVE | 21010150 | -08 → -16 DN 12 → DN 25 1/2" → 1" | -03 → -32 DN 04 → DN 51 3/16" → 2" | -04 → -16 DN 06 → DN 25 1/4" → 1" | | -04 → -16 DN 06 → DN 25 1/4" → 1" | | |
| MT | 110 | NO SKIVE | 21010200 | | | | -03 → -32 DN 04 → DN 51 3/16" → 2" | | | |
| MT | 110 | NO SKIVE | 21010210 | | -03 → -32 DN 04 → DN 51 3/16" → 2" | -04 → -16 DN 06 → DN 25 1/4" → 1" | -03 → -32 DN 04 → DN 51 3/16" → 2" | -06 → -16 DN 10 → DN 25 3/8" → 1" | | |
| MT | 110 | NO SKIVE | 21020250 | | | | | | | |
| MT | 110 | NO SKIVE | 21010300 | | | | | | | 3/16" → 5/8" |
| MT | 110 | NO SKIVE | 21010400 | | | | | | | |
| MT | 110 | NO SKIVE | 21010750 | | | | | | | |
| MT | 110 | NO SKIVE | 21010800 | | | | | | -04 → -08 DN 06 → DN 12 1/4" → 1/2" | |
| MT | 110 | NO SKIVE | 21010900 | | | | | | | |
| MT | 110 | SKIVE | 21020100 | | -20 → -32 DN 31 → DN 51 1 1/4" → 2" | | | | | |
| MT | 110 | SKIVE | 21020250 | | -03 → -16 DN 05 → DN 25 3/16" → 1" | -04 → -16 DN 06 → DN 25 1/4" → 1" | -03 → -32 DN 04 → DN 51 3/16" → 2" | -10 → -16 DN 16 → DN 25 5/8" → 1" | | |
| MT | 110 | SKIVE | 21020400 | | | | | | | |
| MT | 110 | SKIVE | 21020405 | | | | | | | |
| MS | 130 | SKIVE | 23020410 | | | | | | | |
| IL | 140 | INTERLOCK | 24030420 | | | | | | | |
| IL | 140 | INTERLOCK | 24030430 | | | | | | | |
| IL | 140 | INTERLOCK | 24030600 | | | | | | | |

ONE PIECE FITTINGS

| | | | | | | | | | | |
|----------------------|-----|----------|--|---|---|---|---|---|--|--|
| 1P-WB | 350 | NO SKIVE | | -04 → -16 DN 06 → DN 25 1/4" → 1" | -04 → -32 DN 06 → DN 51 1/4" → 2" | -04 → -16 DN 06 → DN 25 1/4" → 1" | -04 → -32 DN 06 → DN 51 1/4" → 2" | -04 → -16 DN 06 → DN 25 1/4" → 1" | | |
| 1P-WS 4SP-R12-4SH | 355 | NO SKIVE | | | | | | | | |
| 1P-WS 4SH-R13-R15 | 360 | NO SKIVE | | | | | | | | |
| 1P-WS 4SH | 365 | NO SKIVE | | | | | | | | |
| 1P-WS R13 | 366 | NO SKIVE | | | | | | | | |

HYDRAULIC FITTINGS - INSERT AND FERRULE SELECTION CHART

| WIRE SPIRAL | | | | | TEXTILE BRAID | | | | |
|---|---|---|---|---|---|---|---|---|---|
| EN 856 R12 SAE 100 R12 | EN 856 4SP | EN 856 4SH | EN 856 R13 SAE 100 R13 | EN 856 R15 SAE 100 R15 | EN 854 R6 SAE 100 R6 | EN 854 2TE | EN 854 R3 SAE 100 R3 | EN 854 3TE | EN 854 R4 SAE 100 R4 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | -04 → -16 DN 06 → DN 25 1/4" → 1" | -04 → -16 DN 06 → DN 25 1/4" → 1" | | | |
| | | | | | | | -04 → -20 DN 06 → DN 31 1/4" → 1 1/4" | -04 → -32 DN 06 → DN 51 1/4" → 2" | -12 → -40 DN 19 → DN 63 3/4" → 2 1/2" |
| -06 → -20 DN 10 → DN 31 3/8" → 1 1/4" | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| -10 → -32 DN 16 → DN 51 5/8" → 2" | | | | | | | | | |
| -06 → -08 DN 10 → DN 12 3/8" → 1/2" | -04 → -16 DN 06 → DN 25 1/4" → 1" | | | | | | | | |
| | | -12 → -20 DN 19 → DN 32 3/4" → 1 1/4" | | | | | | | |
| | | -12 → -32 DN 19 → DN 51 3/4" → 2" | | | | | | | |
| | | -12 → -16 DN 19 → DN 25 3/4" → 1" | -12 → -16 DN 19 → DN 25 3/4" → 1" | -12 → -16 DN 19 → DN 25 3/4" → 1" | | | | | |
| | | -20 → -32 DN 31 → DN 51 1 1/4" → 2" | | | | | | | |
| | | | -20 → -32 DN 31 → DN 51 1 1/4" → 2" | -20 → -32 DN 31 → DN 51 1 1/4" → 2" | | | | | |

| | | | | | | | | | |
|---|---|---|---|---|--|--|--|--|--|
| | | | | | | | | | |
| -06 → -32 DN 10 → DN 51 3/8" → 2" | -06 → -16 DN 10 → DN 25 3/8" → 1" | -12 → -16 DN 19 → DN 25 3/4" → 1" | | | | | | | |
| | | -12 → -24 DN 19 → DN 38 3/4" → 1 1/2" | -12 → -24 DN 19 → DN 38 3/4" → 1 1/2" | -12 → -24 DN 19 → DN 38 3/4" → 1 1/2" | | | | | |
| | | -32 DN 51 2" | | | | | | | |
| | | | -32 DN 51 2" | | | | | | |

HYDRAULIC FITTINGS - INSERT AND FERRULE SELECTION CHART

TWO PIECE FITTINGS

| HOSE TYPE | | | | THERMOPLASTIC | | PTFE |
|--------------|---------------|---------------|----------------|---|---|---|
| FITTING TYPE | INSERT SERIES | ASSEMBLY TYPE | FERRULE SERIES | EN 855 R7 SAE 100 R7 | EN 855 R7 SAE 100 R7 | PTFE |
| MT | 110 | NO SKIVE | 21010050 | | | |
| MT | 110 | NO SKIVE | 21010150 | | | |
| MT | 110 | NO SKIVE | 21010200 | | | |
| MT | 110 | NO SKIVE | 21010210 | | | |
| MT | 110 | NO SKIVE | 21020250 | | | |
| MT | 110 | NO SKIVE | 21010300 | | | |
| MT | 110 | NO SKIVE | 21010400 | | | |
| MT | 110 | NO SKIVE | 21010750 | -04 → -06 DN 06 → DN 10 1/4" → 3/8" | -04 → -06 DN 06 → DN 10 1/4" → 3/8" | |
| MT | 110 | NO SKIVE | 21010800 | | | |
| MT | 110 | NO SKIVE | 21010900 | | | -04 → -06 DN 06 → DN 10 1/4" → 3/8" |
| MT | 110 | SKIVE | 21020100 | | | |
| MT | 110 | SKIVE | 21020250 | | | |
| MT | 110 | SKIVE | 21020400 | | | |
| MT | 110 | SKIVE | 21020405 | | | |
| MS | 130 | SKIVE | 23020410 | | | |
| IL | 140 | INTERLOCK | 24030420 | | | |
| IL | 140 | INTERLOCK | 24030430 | | | |
| IL | 140 | INTERLOCK | 24030600 | | | |

PH369 - Hose Protective Sleeve

Application Polyhose Protective Sleeves are used on earthmoving machinery, mining industry and industrial equipment for wear resistance and to avoid getting people injured by burst and high pressure/temperature liquid spray.

Description Protective Sleeves are made of a high-performance nylon yarn to prevent abrasion and injuries. The special weave gives an exceptionally smooth inner wall, in which the hydraulic hose can move freely to prevent wear. Protective Sleeves are ideal for protecting people, the environment and the machine against possible leaks.






Material For Nylon - PH369N,
For Polyester - PH369P,
Special Material available on request.

Color Black

Approval RoHS, MSHA

Working temperature : -50°C to +125°C



| PRODUCT CODE |  ID |  THICKNESS |  FLAT WIDTH |  Colour |  METERS PER BOX |
|--------------|--|---|---|--|--|
| | mm | mm | (+/- 1 mm) | | m |
| PH369-017 | 17 | 0.8 | 30 | Black | 50 |
| PH369-020 | 20 | 0.8 | 36 | Black | 50 |
| PH369-023 | 23 | 0.8 | 40 | Black | 50 |
| PH369-025 | 25 | 0.8 | 43 | Black | 50 |
| PH369-027 | 27 | 0.8 | 45 | Black | 50 |
| PH369-031 | 31 | 0.8 | 52 | Black | 50 |
| PH369-033 | 33 | 0.8 | 55 | Black | 50 |
| PH369-036 | 36 | 0.8 | 60 | Black | 50 |
| PH369-040 | 40 | 0.8 | 66 | Black | 50 |
| PH369-044 | 44 | 0.8 | 74 | Black | 50 |
| PH369-047 | 47 | 0.8 | 77 | Black | 50 |
| PH369-053 | 53 | 0.8 | 86 | Black | 50 |
| PH369-055 | 55 | 0.8 | 90 | Black | 50 |
| PH369-060 | 60 | 0.8 | 98 | Black | 50 |
| PH369-066 | 66 | 0.8 | 106 | Black | 50 |
| PH369-073 | 73 | 0.8 | 118 | Black | 50 |
| PH369-078 | 78 | 0.8 | 126 | Black | 50 |
| PH369-085 | 85 | 0.8 | 136 | Black | 50 |
| PH369-093 | 93 | 0.8 | 150 | Black | 50 |
| PH369-112 | 112 | 0.8 | 178 | Black | 50 |

PH368HG - Spiral Guard

Material : High Density Polyethylene

Working temperature : -50°C to +130°C

Note : Standard colour Black. Other colours Yellow, Red, Blue, Green - available on request



| SPIRAL GUARD SPECIFICATION SHEET | | | | | |
|----------------------------------|------------|------------|----------|------------|--------------------------|
| PRODUCT | NOMINAL OD | NOMINAL ID | W.T (MM) | PITCH (MM) | USAGE RANGE(HOSE DIA MM) |
| PH368HG-12 | 12 | 9 | 1.5 | 10 | 9 TO 13 |
| PH368HG-16 | 16 | 12.6 | 1.7 | 12 | 13 TO 18 |
| PH368HG-20 | 20 | 16 | 2.0 | 16 | 16 TO 22 |
| PH368HG-25 | 25 | 20.6 | 2.2 | 20 | 20 TO 27 |
| PH368HG-32 | 32 | 27 | 2.5 | 22 | 27 TO 36 |
| PH368HG-40 | 40 | 34.6 | 2.7 | 27 | 34 TO 44 |
| PH368HG-50 | 50 | 44 | 3.0 | 30 | 43 TO 55 |
| PH368HG-63 | 63 | 55.4 | 3.8 | 37 | 55 TO 67 |
| PH368HG-75 | 75 | 66 | 4.5 | 42 | 66 TO 80 |
| PH368HG-90 | 90 | 80 | 5.0 | 45 | 80 TO 98 |
| PH368HG-110 | 110 | 99 | 5.5 | 50 | 99 TO 115 |
| PH368HG-125 | 125 | 113 | 6.0 | 55 | 113 TO 130 |
| PH368HG-140 | 140 | 128 | 6.0 | 55 | 128 TO 145 |

NYLON BUNDLE STRAP



| NYLON BUNDLE STRAP SPECIFICATIONS | | | |
|-----------------------------------|------------|-------------|----------|
| PRODUCT CODE | WIDTH (MM) | LENGTH (MM) | MATERIAL |
| HGNT-025-600 | 25 | 600 | Nylon 6 |
| HGNT-025-1200 | 25 | 1200 | Nylon 6 |

Special lengths on request, conditions apply.
 Minimum order Quantity 1000 pcs.
 Personal branding available, conditions apply.

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INTERNATIONAL STANDARD AND HOSE SELECTION MATRIX

SAE - Society of Automotive Engineers
 EN - European Standard
 ISO - International Organization
 IS - International Standards
 BS - British Standard
 NFPA - National Fire Protection Association

BCS - National Coal Board, British
 DNV - Det Norske Veritas for North se Floating vessels
 MSHA - U.S Mine Safety and Health Administration
 DOT - US Department of Transportation
 DIN - Deutsches Institut für Normung
 (German national organization for standardization)

| CATEGORY | PAGE NUMBER | PART NUMBER | SAE | DIN | EN | ISO | NFPA | IS | BS | AS | AAR | BCS | DNV | MSHA | DOT/FMVSS | | |
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| | 16 | PH244 | - | - | 853-2ST | - | - | - | - | | | - | - | ✓ | - | | |
| | 23 | PH245 | J517-100R4 | - | - | - | - | - | - | | | - | - | ✓ | - | | |
| | 23 | PH146 | J517-100R5 | - | - | - | - | - | - | | | - | - | - | - | | |
| | 25 | PH147 | J517-100R6 | - | - | - | - | - | - | | | - | - | - | - | | |
| | 24 | PH250 | J717-100R3 | - | - | - | - | - | - | | | - | - | - | - | | |
| | 26 | PH261 | - | - | 854-1TE | - | - | - | - | | | - | - | ✓ | - | | |
| | 26 | PH262 | - | - | 854-2TE | - | - | - | - | | | - | - | ✓ | - | | |
| | 27 | PH263 | - | - | 854-3TE | - | - | - | - | | | - | - | ✓ | - | | |
| | 25 | PH204 | J517-100R6 | | | | | | | | | | | | | | |
| | 18 | PH213 | | | | 18752-AC | | | | | | | | ✓ | | | |
| | 19 | PH214/224 | | | | 18752-BC | | | | | | | | ✓ | | | |
| | 20 | PH215/225 | | | | 18752-CC | | | | | | | | ✓ | | | |
| | 21 | PH216 | | | | | | | | | | | | ✓ | | | |
| | 14 | PH253 | J517-100R1AT | - | 853-1SN | 1436 | - | - | - | - | | | - | ✓ | ✓ | - | |
| | 16 | PH254 | J517-100R2AT | - | 853-2SN | | - | - | - | - | | | - | ✓ | ✓ | | |
| | 15 | PH257 | | - | 857-1SC | 11237-1 | - | - | - | - | | | - | ✓ | ✓ | | |
| | 17 | PH258 | J517-100R16 | - | 857-2SC | | - | - | - | - | | | - | ✓ | ✓ | | |
| | 18 | PH293 | J517-100R17 | - | | | - | - | - | - | | | - | ✓ | ✓ | | |
| | 15 | PH296 | | - | 857 - 1SC (Exceeds) | | - | - | - | - | | | - | ✓ | ✓ | | |
| 17 | PH297 | J517-100R16 (Exceeds) | - | 857-2SC (Exceeds) | | - | - | - | - | | | - | ✓ | ✓ | | | |
| PRESSURE WASHER HOSE | 29 | PH521 | | | 857 - 1SC & 1829-2 (Exceeds) | | - | - | - | | | - | - | | - | | |
| | 30 | PH522 | | | 857 - 2SC & 1829-2 (Exceeds) | | | | | | | | | | | | |
| HIGH PRESSURE SPIRAL HOSE | 30 | PH177 | J517-100R12 | - | 856-R12 | 3862 | - | - | - | | | - | - | ✓ | ✓ | - | |
| | 31 | PH178 | J517-100R13 | - | 856-R13 | | - | - | - | - | | | - | - | ✓ | ✓ | - |
| | 32 | PH277 | - | - | 856-4SP | | - | - | - | - | | | - | - | ✓ | ✓ | - |
| | 32 | PH278 | - | - | 856-4SH | | - | - | - | - | | | - | - | ✓ | ✓ | - |
| | 31 | PH279 | J517-100R15 | - | - | | - | - | - | - | | | - | - | ✓ | ✓ | - |
| WATER BLAST HOSE | 33 | PH280 | | | 1829-2 (meets) | | | | | | | | | | ✓ | | |
| | 34 | PH281 | | | 1829-2 (meets) | | | | | | | | | | ✓ | | |
| | 34 | PH282 | | | 1829-2 (meets) | | | | | | | | | | ✓ | | |
| | 35 | PH283 | | | 1829-2 (meets) | | | | | | | | | | ✓ | | |
| MINING HOSE | 99 | PH179 | | | | | | | | | | 174-1992 | | ✓ | | | |
| FUEL HOSE | 36 | PH442 | | | 1360 TYPE-3 | - | - | - | - | | | - | - | - | - | | |
| | 36 | PH443 | | | 1360 TYPE-1 | - | - | - | - | | | - | - | - | - | | |
| | 37 | PH531 | J30 R2 TYPE-2 | - | - | - | - | - | - | | | - | - | - | - | | |
| | 37 | PH532 | J30 R2 TYPE-3 | - | - | - | - | - | - | | | - | - | - | - | | |
| | 38 | PH534 | | | 1762 TYPE-D | - | - | - | - | | | - | - | - | - | | |
| | 38 | PH535 | | | | - | - | 9573 TYPE-1 | - | | | - | - | - | - | | |
| | 39 | PH536 | | | J30 R6 | - | - | 15722 | - | | | - | - | - | - | | |
| | 39 | PH542 | J30 R7 | | | - | - | | - | | | - | - | - | - | | |
| AUTOMOBILE & AIR CONDITIONING | 40 | PH503 | J2064 TYPE-B | - | - | - | - | - | - | | | - | - | - | - | | |
| | 41 | PH540 | J1402 TYPE-A | - | - | - | - | - | - | | | - | - | - | ✓ | | |
| | 41 | PH550 | | | | | | | | | M618, M619 | | | | | | |

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| CATEGORY | PAGE NUMBER | PART NUMBER | SAE | DIN | EN | ISO | NFPA | IS | BS | AS | AAR | BCS | DNV | MSHA | DOT/FMVSS |
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| RUBBER INDUSTRIAL HOSE | 42 | PH471 | | | | 1634 | | 10655 | 5342 | | | | | | |
| | 43 | PH472 | | | | 1634 | | | | | | | | | |
| | 44 | PH566 | | | 14593/14594 | | | | | | | | | | |
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| POLY - OIL HOSE | 115 | PH802 | | - | 13765 TYPE 2 | - | - | - | - | | | - | - | - | - |
| POLY - AVIATION FUEL HOSE | 115 | PH803 | | - | 13765 TYPE 2 | - | - | - | - | | | - | - | - | - |
| POLY - FUEL HOSE | 116 | PH804 | | - | 13765 TYPE 2 | - | - | - | - | | | - | - | - | - |
| POLY - PTFE CHEMICAL HOSE | 116 | PH805 | | - | 13765 TYPE 2 | - | - | - | - | | | - | - | - | - |
| POLY - CHEMICAL HOSE SS | 116 | PH806 | | - | 13765 TYPE 2 | - | - | - | - | | | - | - | - | - |
| POLY - CHEMICAL HOSE PP | 117 | PH807 | | - | 13765 TYPE 3 | - | - | - | - | | | - | - | - | - |
| POLY - CHEMICAL DOCK HOSE | 117 | PH808 | | - | 13765 TYPE 2 | - | - | - | - | | | - | - | - | - |
| POLY - DOCK PTFE HOSE | 117 | PH809 | | - | 3765 TYPE 2 | - | - | - | - | | | - | - | - | - |
| POLY - DOCK PG HOSE | 118 | PH810 | | - | 13765 TYPE 2 | - | - | - | - | | | - | - | - | - |
| POLY - OIL DOCK HOSE | 118 | PH811 | | - | 13765 TYPE 2 | - | - | - | - | | | - | - | - | - |
| THERMOPLASTIC HYDRAULIC HOSE | 63 | PH148 | SAE 100 R7 | DIN EN ISO 3949 | | | - | - | - | | | - | ✓ | - | - |
| THERMOPLASTIC HYDRAULIC HOSE | 63 | PH149 | SAE 100 R8 | DIN EN ISO 3949 | | | - | - | - | | | - | ✓ | - | - |
| THERMOPLASTIC HYDRAULIC HOSE | 65 | PH353 | SAE 100 R8 | DIN EN ISO 3949 | | | - | - | - | | | - | - | - | - |
| THERMOPLASTIC HYDRAULIC HOSE | 64 | PH194 | Exceeds SAE 100 R18 | DIN EN ISO 3949 | | | - | - | - | | | - | - | - | - |
| THERMOPLASTIC HYDRAULIC HOSE | 64 | PH348 | Exceeds SAE 100 R1 | - | - | - | - | - | - | - | - | - | - | - | - |
| THERMOPLASTIC HYDRAULIC HOSE | 65 | PH349 | Exceeds SAE 100 R2 | - | - | - | - | - | - | - | - | - | - | - | - |
| THERMOPLASTIC HYDRAULIC HOSE | 66 | PH761 | Exceeds SAE 100 R1 | - | - | - | - | - | - | - | - | - | - | - | - |
| THERMOPLASTIC HYDRAULIC HOSE | 66 | PH762 | Exceeds SAE 100 R2 | - | - | - | - | - | - | - | - | - | - | - | - |
| CNG HOSE | 80 | PH324 | | - | - | - | Conforms to NFPA 52 | | | | | | | | |
| CNG HOSE | 80 | PH325 | | - | - | - | "NFPA 52, ANSI/CSA NGV 4.2* CSA 12.52 (Class A, Class D), ANSI NGV 3.1-2014* CSA 12.3 Part 22 for Class B and Class C" | | | | | | | | |
| THERMOPLASTIC INDUSTRIAL & AUTOMOTIVE TUBINGS | 92 | Polyamide Tubing | | "DIN 73378 DIN 74324" | - | - | - | - | - | - | - | - | - | - | ✓ |
| PTFE HOSE | 99 | PH179 | SAE J517 - 100R14 | - | - | - | | | | | | | ✓ | | |
| PTFE HOSE | 99 | PH311 | SAE J517 - 100R14 | - | - | - | | | | | | | | | |
| PTFE HOSE | 100 | PH313 | SAE J517 - 100R14 | - | - | - | | | | | | | | | |
| PTFE HOSE | 101 | PH381 | Exceeds SAE J517 - 100R14 | - | - | - | | | | | | | | | |
| PVC HOSE | 112 | PH360 | | - | - | - | | Exceeds IS 446 1987 Type - 2 | | | | | | | |
| PVC HOSE | 112 | PH362 | | - | - | - | | Exceeds IS 447 1987 - Type 2 | | | | | | | |
| PVC HOSE | 113 | PH365 | | - | - | - | | Exceeds IS 446 -1980 - Type 3 & IS 446-1980 -Type 1 | | | | | | | |

* Except size 1/4" ** Except size 3/16" *** Except size 1" & 2"

CHEMICAL RESISTANCE CHART

| Fluid or material conveyed | Chloroprene | EPDM | NBR | SBR | UHMWPE | XLPE | Polyamide | Polyester | PTFE | PU |
|----------------------------|-------------|------|-----|-----|--------|------|-----------|-----------|------|----|
| Acetaldehyde | C | E | E | X | X | X | X | X | E | X |
| Acetic Acid, glacial | F | G | G | X | X | X | X | X | E | X |
| Acetic Acid 10% | E | E | E | F | F | F | F | F | E | X |
| Acetic Acid 50% | F | E | E | F | F | F | F | F | E | X |
| Acetic Anhydride | G | G | G | X | X | X | X | X | E | X |
| Acetone | C | E | E | C | C | C | C | C | E | X |
| Acetone cyanohidrin | G | E | E | - | - | - | - | - | - | - |
| Acetophenone | X | E | E | X | X | X | X | X | - | - |
| Acetyl Acetone | X | E | E | X | X | X | X | X | - | - |
| Acetyl chloride | X | X | X | X | X | X | X | X | - | - |
| Acetylene | E | E | E | F | F | F | F | F | E | F |
| Acetylene dichloride | X | C | C | X | X | X | X | X | - | - |
| Acrolein | G | E | E | F | F | F | F | F | - | - |
| Acrylonitrile | X | E | E | F | F | F | F | F | E | X |
| Adipic Acid | E | C | C | X | X | X | X | X | E | E |
| Air 60°C | E | E | E | E | E | E | E | E | - | - |
| Air 160°C | G | G | G | X | X | X | X | X | - | - |
| Allyl acetate | - | - | - | - | - | - | - | - | - | - |
| Allyl Alcohol | E | E | E | E | E | E | E | E | - | - |
| Allyl bromide | X | X | X | - | - | - | - | - | - | - |
| Allyl chloride | X | X | X | E | E | E | E | E | - | - |
| Aluminium acetate | C | E | E | X | X | X | X | X | - | - |
| Aluminium chloride | E | E | E | E | E | E | E | E | E | G |
| Aluminium fluoride | E | E | E | E | E | E | E | E | - | - |
| Aluminium hydroxide | E | E | E | G | G | G | G | G | - | - |
| Aluminium nitrate | E | E | E | E | E | E | E | E | - | - |
| Aluminium sulfate | G | E | E | G | G | G | G | G | E | G |
| Aminobenzene | X | C | C | X | X | X | X | X | - | - |
| Aminoethanol | - | E | E | F | F | F | F | F | - | - |
| Ammonia anhydrous | X | X | X | X | X | X | X | X | - | - |
| Ammonia sol. 10% | E | E | E | F | F | F | F | F | E | X |
| Ammonia sol. 50% | E | E | E | F | F | F | F | F | - | - |
| Ammonium chloride | E | E | E | E | E | E | E | E | E | G |
| Ammonium hidroxide | E | E | E | X | X | X | X | X | E | X |
| Ammonium nitrate | E | E | E | E | E | E | E | E | E | X |
| Ammonium phosphate | E | E | E | E | E | E | E | E | E | - |
| Ammonium sulphate | E | E | E | G | G | G | G | G | E | G |
| Ammonium sulphite | E | E | E | G | G | G | G | G | - | - |
| Ammonium thiosulph | E | E | E | - | - | - | - | - | - | - |
| Amyl acetate | X | C | C | X | X | X | X | X | E | X |
| Amyl acetone | X | G | G | - | - | - | - | - | - | - |
| Amyl alcohol | C | E | E | G | G | G | G | G | E | X |
| Amylamine | G | X | X | - | - | - | - | - | - | - |
| Amyl bromide | X | C | C | - | - | - | - | - | - | - |
| Amyl chloride | X | X | X | X | X | X | X | X | - | - |
| Amyl oleate | - | - | - | - | - | - | - | - | - | - |
| Amyl phenol | - | - | - | - | - | - | - | - | - | - |
| Amyl phthalate | - | G | G | - | - | - | - | - | - | - |

C: CONDITIONAL E: EXCELLENT F: FAIR G: GOOD X: UNSATISFACTORY

| Fluid or material conveyed | Chloroprene | EPDM | NBR | SBR | UHMWPE | XLPE | Polyamide | Polyester | PTFE | PU |
|----------------------------|-------------|------|-----|-----|--------|------|-----------|-----------|------|----|
| Anethole | X | X | X | - | - | - | - | - | - | - |
| Aniline | X | C | X | X | E | E | F | X | E | X |
| Animal fats | C | C | E | X | E | E | G | - | E | - |
| Antimony pentachlorid | C | C | X | - | E | E | X | - | - | - |
| Acqua regia | X | C | X | X | X | X | X | X | E | X |
| Aromatic tar | - | - | G | - | G | E | - | - | - | - |
| Arsenic acid | E | E | E | E | E | E | - | - | - | - |
| Ascorbic acid | - | - | - | - | E | E | - | - | - | - |
| Asphalt 80°C | - | - | E | - | F | X | - | - | - | - |
| Asphalt 130°C | - | - | X | - | X | X | - | - | - | - |
| ASTM OIL n°1 | E | X | E | X | E | E | E | E | E | E |
| ASTM OIL n°2 | C | X | E | X | E | E | E | E | E | G |
| ASTM OIL n°3 | C | X | E | X | E | E | E | G | E | E |
| ASTM FUEL A | C | X | E | X | - | - | E | E | E | G |
| ASTM FUEL B | X | X | C | X | - | - | E | E | E | G |
| ASTM FUEL C | X | X | C | X | - | - | E | G | E | F |
| Banana Oil | X | C | X | - | - | - | - | - | - | - |
| Barium carbonate | E | E | E | E | E | E | - | - | - | - |
| Barium chloride | E | E | E | E | E | E | G | F | E | E |
| Barium hydroxide | E | E | E | E | E | E | G | G | E | X |
| Barium sulfide | E | E | E | G | E | E | - | - | - | - |
| Beer | E | E | E | E | E | E | - | G | E | - |
| Beet sugar liquors | C | E | E | E | E | E | - | - | - | - |
| Benzal chloride | - | - | X | - | - | - | - | - | E | - |
| Benzaldehyde | X | E | X | X | E | E | E | G | E | X |
| Benzene | C | C | X | X | F | E | G | G | E | X |
| Benzene carboxylic ac | E | C | X | - | - | - | - | - | - | - |
| Benzene sulfon ac 10% | - | - | - | - | E | E | - | - | - | - |
| Benzene petrol ether | X | X | E | X | E | E | - | - | - | - |
| Benzene petrol naphtha | X | X | E | X | E | E | - | - | - | - |
| Benzoic acid | E | C | X | X | - | - | G | - | G | - |
| Benzoic aldehyde | - | F | - | X | E | E | - | - | - | - |
| Benzotrighloride | X | E | X | X | - | - | - | - | - | - |
| Benzyl acetate | E | E | X | X | - | - | - | - | - | - |
| Benzyl alcohol | C | C | X | X | - | - | F | X | G | X |
| Benzyl chloride | X | X | X | X | - | - | - | - | - | - |
| Bichromate of soda | - | - | - | - | E | E | - | - | - | - |
| Black sulphate liquor | G | G | G | G | E | E | - | - | - | - |
| Bleach (2-12% chlorine) | - | - | - | - | F | E | - | - | - | - |
| Boric acid | E | E | E | E | E | E | F | G | E | E |
| Bordeaux mixture | - | E | - | - | E | E | - | - | - | - |
| Brine | E | E | E | - | E | E | - | - | - | - |
| Bromic acid | - | - | - | - | X | X | - | - | - | G |
| Bromine | X | X | X | X | X | X | X | X | E | X |
| Bromobenzene | X | X | X | X | X | X | - | - | - | - |
| Bromochloromethane | X | G | X | - | F | F | - | - | - | - |
| Bromoethane | X | X | C | X | E | E | - | - | - | - |
| Bromotoluene | - | - | X | - | - | - | - | - | - | - |
| Bunker oil | G | X | E | X | - | - | - | - | - | - |

C: CONDITIONAL E: EXCELLENT F: FAIR G: GOOD X: UNSATISFACTORY

| Fluid or material conveyed | Chloroprene | EPDM | NBR | SBR | UHMWPE | XLPE | Polyamide | Polyester | PTFE | PU |
|----------------------------|-------------|------|-----|-----|--------|------|-----------|-----------|------|----|
| Butadiene | X | X | X | X | E | E | - | - | - | - |
| Butane | E | X | E | X | E | E | G | E | E | X |
| Butanoic acid | X | C | C | - | - | C | - | - | - | - |
| Butanol | E | C | E | E | E | E | F | G | E | X |
| Butanone | X | E | X | X | E | E | G | E | E | X |
| Butoxyethanol | X | E | C | - | - | E | - | - | - | - |
| Butyl acetate | X | C | X | X | E | E | G | G | E | X |
| Butyl acrylate | X | C | X | X | E | E | - | - | - | - |
| Butyl alcohol | E | C | E | E | E | E | X | X | E | G |
| Butyl aldehyde | X | C | X | X | E | E | - | - | - | - |
| Butyl amine | - | F | F | - | E | E | - | - | - | - |
| Butyl benzene | - | - | - | - | E | E | - | - | - | - |
| Butyl bromide | X | X | X | X | - | F | - | - | - | - |
| Butyl benzoate | - | - | - | - | - | E | - | - | - | - |
| Butyl butyrate | - | - | - | - | - | F | - | - | - | - |
| Butyl carbitol | X | E | X | X | - | - | - | - | - | - |
| Butyl cellosolve | X | C | C | X | E | E | - | - | - | - |
| Butyl chloride | X | X | X | - | - | - | - | - | - | - |
| Butyl ether | C | C | X | X | E | E | - | - | - | - |
| Butyl ether acetaldehy | X | X | X | - | - | E | - | - | - | - |
| Butyl ethil ether | X | F | G | - | - | - | - | - | - | - |
| Butyl glycol | - | F | - | - | E | E | - | - | - | - |
| Butyl oleate | X | C | X | X | - | - | - | - | - | - |
| Butyl phenol | - | - | - | - | E | E | - | - | - | - |
| Butyl phthalate | X | E | X | X | E | E | - | - | - | - |
| Butyl stearate | X | X | C | X | E | E | - | - | - | - |
| Butylene | C | X | C | X | - | - | - | - | - | - |
| Butyraldehyde | X | C | X | X | E | E | - | - | - | - |
| Butyric acid | X | C | C | X | E | E | - | - | - | - |
| Butyric anhydride | G | E | C | - | - | - | - | - | - | - |
| Cadmiun acetate | - | - | X | - | - | - | - | - | - | - |
| Calcium aluminate | - | - | E | - | - | - | - | - | - | - |
| Calcium Bichromate | E | E | C | - | - | - | - | - | - | - |
| Calcium bisulphite | E | E | C | G | - | - | - | - | - | - |
| Calcium carbonate | E | E | E | E | E | E | - | - | - | - |
| Calcium chloride | E | E | E | E | E | E | G | E | E | E |
| Calcium hydroxide | E | E | E | E | E | E | E | F | E | X |
| Calcium hypochlorite | C | E | C | X | E | E | E | F | E | F |
| Calcium nitrate | E | E | E | E | - | - | E | E | E | X |
| Calcium sulphate | E | E | E | X | - | - | - | G | E | - |
| Calcium sulfide | E | E | E | X | - | - | - | - | - | - |
| Calcium acetate | C | E | C | X | - | - | - | - | - | - |
| Caprylic acid | - | - | F | - | - | - | - | - | - | - |
| Carbamide | G | E | G | - | E | E | - | - | - | - |
| Carbitol | C | C | C | E | E | E | - | - | - | - |
| Carbolic acid phenol | - | - | - | - | - | - | - | - | - | - |
| Carbon dioxide | G | G | E | G | E | E | F | E | E | X |
| Carbon disulfide | X | X | X | - | C | C | F | F | E | X |
| Carbonic acid | E | E | C | G | E | E | F | E | E | X |

C: CONDITIONAL E: EXCELLENT F: FAIR G: GOOD X: UNSATISFACTORY

| Fluid or material conveyed | Chloroprene | EPDM | NBR | SBR | UHMWPE | XLPE | Polyamide | Polyester | PTFE | PU |
|----------------------------|-------------|------|-----|-----|--------|------|-----------|-----------|------|----|
| Carbon tetrachloride | X | X | X | - | E | E | X | X | E | X |
| Carbon tetrafluoride | - | - | - | - | E | E | - | - | - | - |
| Castor oil | E | C | E | E | E | E | F | F | E | F |
| Caustic potash | F | E | F | F | E | E | - | - | - | - |
| Caustic soda | G | G | C | E | E | E | - | - | - | - |
| Cellosolve | - | F | F | - | E | E | - | - | - | - |
| Cellosolve acetate | X | G | X | X | E | E | - | - | - | - |
| Chlorinated solvents | X | X | X | X | E | E | - | - | - | - |
| Chlorine (dry) | X | X | X | X | F | F | - | - | E | - |
| Chlorine (wet) | X | X | X | X | F | F | - | - | E | - |
| Chlorine trifluoride | X | X | X | X | F | F | - | - | - | - |
| Chloroacetic acid | X | C | X | X | E | E | F | X | E | X |
| Chloroacetone | X | E | X | X | E | E | - | - | - | - |
| Chlorobenzene | X | X | X | X | E | E | E | X | E | F |
| Chlorobenzol | - | X | - | X | E | E | - | - | - | - |
| Chlorobromomethane | - | - | - | - | E | E | - | - | - | - |
| Chlorobutane | X | X | X | - | - | - | - | - | - | - |
| Chloroform | X | X | X | X | F | F | - | - | E | - |
| Chloropentane | X | X | X | - | - | - | - | - | - | - |
| Chlorosulfonic acid | X | X | X | X | X | F | X | X | E | X |
| Chlorotoluence | X | X | X | X | - | - | - | - | - | - |
| Chrome plating solutio | X | C | X | X | - | - | - | - | - | - |
| Chromic acid | X | C | X | X | E | E | X | X | E | X |
| Chromosulfuric acid | X | X | X | X | X | F | - | - | - | - |
| Citric acid | E | E | E | E | E | E | G | G | E | X |
| Coal oil | X | X | E | X | E | E | E | E | E | F |
| Coal tar | C | X | C | X | E | E | - | - | - | - |
| Coconut oil | C | C | E | X | E | E | - | - | - | - |
| Coke oven gas | X | X | X | X | E | E | - | - | - | - |
| Copper chloride | C | E | E | E | E | E | - | - | - | - |
| Copper cyanide | E | E | E | E | E | E | - | G | - | - |
| Copper hydrate | - | - | G | - | - | - | - | - | - | - |
| Copper hydroxide | - | - | G | - | - | - | - | - | - | - |
| Copper nitrate | E | E | - | E | E | E | - | G | - | - |
| Copper sulphate | E | E | E | G | E | E | - | G | - | - |
| Corn oil | C | C | E | X | E | E | - | - | - | - |
| Cottonseed oil | C | C | E | X | E | E | - | G | E | - |
| Cresosote | C | X | C | X | E | E | X | G | E | X |
| Cresols | X | X | X | X | E | E | X | X | E | X |
| Cresylic acid | X | X | X | X | E | E | - | - | - | - |
| Crotonaldehyde | X | E | X | F | E | E | - | - | - | - |
| Crude oil | C | X | C | X | E | E | - | - | - | - |
| Cumene | X | X | X | X | - | - | - | - | - | - |
| Cupric carbonate | - | - | - | - | - | - | - | - | - | - |
| Cupric nitrate | E | C | C | - | E | E | - | - | - | - |
| Cupric sulphate | E | E | E | G | - | E | - | - | - | - |
| Cutting oil | C | X | E | X | - | - | - | - | E | - |
| Cyclohexane | E | X | C | X | E | E | F | E | E | F |
| Cyclohexanol | C | X | G | X | E | E | F | G | E | - |

C: CONDITIONAL E: EXCELLENT F: FAIR G: GOOD X: UNSATISFACTORY

CHEMICAL RESISTANCE CHART

| Fluid or material conveyed | Chloroprene | EPDM | NBR | SBR | UHMWPE | XLPE | Polyamide | Polyester | PTFE | PU |
|----------------------------|-------------|------|-----|-----|--------|------|-----------|-----------|------|----|
| Cyclohexanone | X | C | X | E | E | E | F | F | E | X |
| Cyclopentane | C | X | G | - | E | - | G | F | - | - |
| Cyclopentanol | - | - | - | - | - | - | - | - | - | - |
| Cyclopentanone | - | - | X | - | E | - | - | - | - | - |
| Decahydronaphthalene | X | X | X | E | E | E | G | - | E | - |
| Decalin | X | X | X | E | - | E | G | - | E | - |
| Decanol | - | F | E | E | E | E | - | - | - | - |
| Decyl alcohol | X | X | E | - | E | - | - | - | - | - |
| Decyl aldehyde | - | X | X | - | E | - | - | - | - | - |
| Decyl butyl phthalate | - | - | X | - | E | - | - | - | - | - |
| Decyl carbinol | - | - | - | - | E | E | - | - | - | - |
| Denatured alcohol | E | E | - | E | E | E | G | - | E | - |
| Detergents (water) | F | E | E | E | - | E | - | - | - | - |
| Developer sol. (photo) | E | - | E | E | - | E | - | - | - | - |
| Diacetone alcohol | F | E | X | E | - | E | G | - | - | - |
| Diamylamine | C | E | G | - | - | - | - | - | - | - |
| Diamylene | X | X | - | - | E | - | - | - | - | - |
| Diamyl naphalene | - | - | - | E | - | E | - | - | - | - |
| Diamyl Phenol | X | - | X | E | E | E | - | - | - | - |
| Dibenzyl ether | X | C | X | - | - | - | - | - | - | - |
| Dibromobenzene | X | X | X | X | - | X | - | - | - | - |
| Dibromoethane | X | C | X | - | E | - | - | - | - | - |
| Dibutyl ether | C | C | X | E | - | E | - | - | - | - |
| Dibutyl Phthalate | X | C | X | E | E | E | F | F | E | X |
| Dibutyl sebacate | X | C | X | E | E | E | - | - | - | - |
| Dibutyl amine | C | F | X | - | E | - | - | - | - | - |
| Dicalcium phosphate | E | E | E | - | - | - | - | - | - | - |
| Dichloroacetic acid | X | - | X | E | E | E | - | - | - | - |
| Dichlorobenzene | X | X | X | - | E | - | E | X | E | X |
| Dichlorobutane | X | X | C | - | - | - | - | - | - | - |
| Dichlorodifluorometh | C | C | C | G | - | E | - | - | - | - |
| Dichloroethane | X | X | X | - | - | - | - | - | - | - |
| Dichloroethylene | X | C | X | F | - | F | G | X | E | G |
| Dichloroethyl ether | X | X | X | - | - | - | - | - | - | - |
| Dichlorohexane | X | X | X | - | E | - | - | - | - | - |
| Dichloromethane | X | X | X | - | E | - | - | - | - | - |
| Dichloropentane | X | X | X | - | E | - | - | - | - | - |
| Dichloropropane | X | X | F | G | E | G | - | - | - | - |
| Dichloropropene | X | X | C | G | - | G | - | - | - | - |
| Diesel oil | C | X | E | E | - | E | G | X | E | G |
| Diethanolmine | G | G | C | - | - | - | G | - | E | - |
| Diethylamine | G | G | C | - | - | - | - | - | - | - |
| Diethyl Carbinol | - | E | - | E | E | E | - | - | - | - |
| Diethyl ether | X | X | X | E | E | E | - | - | - | - |
| Diethyl ketone | X | G | X | E | - | E | - | - | - | - |
| Diethyl oxalate | X | X | X | - | E | - | - | - | - | - |
| Diethyl phthalate | X | F | X | E | C | E | - | - | - | - |
| Diethyl sebacate | X | F | C | - | E | - | - | - | - | - |

C: CONDITIONAL E: EXCELLENT F: FAIR G: GOOD X: UNSATISFACTORY

| Fluid or material conveyed | Chloroprene | EPDM | NBR | SBR | UHMWPE | XLPE | Polyamide | Polyester | PTFE | PU |
|----------------------------|-------------|------|-----|-----|--------|------|-----------|-----------|------|----|
| Diethyl sul fate | E | E | X | E | - | - | - | - | - | - |
| Diethylamine | C | C | C | G | E | E | - | - | - | - |
| Diethylene glycol | E | E | E | E | E | E | - | - | - | - |
| Dihydroxydiethylene | E | E | E | - | E | E | - | - | - | - |
| Diisobutyl ketone | X | E | X | X | E | E | - | - | - | - |
| Diisodecyl phthalate | X | E | X | - | E | E | - | - | - | - |
| Diisooctyl adipate | X | E | X | - | - | - | - | - | - | - |
| Diisooctyl phthalate | X | E | X | - | E | E | - | - | - | - |
| Diisopropyl amine | - | - | - | F | E | E | - | - | - | - |
| Dimethyl amine | X | E | F | X | E | E | - | - | - | - |
| Dimethyl benzene | X | X | X | X | - | - | - | - | - | - |
| Dimethyl carbinol | G | E | C | - | E | E | - | - | - | - |
| Dimethyl ether | - | - | - | X | E | E | - | - | - | - |
| Dimethyl formamide | - | - | - | - | E | E | G | X | X | X |
| Dimethyl ketone | C | E | X | F | E | E | - | - | - | - |
| Dimethyl phenol | X | X | X | X | - | - | - | - | - | - |
| Dimethyl phthalate | X | C | X | X | E | E | - | - | - | - |
| Dimethyl sul fate | X | X | X | - | E | E | G | X | X | X |
| Dimethyl sulfoxide | - | - | - | X | E | E | - | - | - | - |
| Dinitrobenzene | - | - | - | X | E | E | - | - | - | - |
| Diocetyl adipate | - | - | E | X | E | E | - | - | - | - |
| Diocetyl phthalate | - | - | - | X | E | E | - | - | - | - |
| Dioxane | X | C | X | X | E | E | G | - | E | - |
| Dioxolane | - | X | - | X | E | E | - | - | - | - |
| Dipentene | X | X | C | X | - | - | - | - | - | - |
| Diphenyl phthalate | - | - | - | X | E | E | - | - | - | - |
| Dipropylamine | - | F | F | F | E | E | - | - | - | - |
| Dipropylene glycol | E | E | E | - | - | - | - | - | - | - |
| Disodium phosphate | - | E | E | E | E | E | - | - | - | - |
| Divinyl benzene | X | X | X | X | E | E | - | - | - | - |
| Dodecyl benzene | X | X | X | X | E | E | - | - | - | - |
| Dowper | - | X | F | X | E | E | - | - | - | - |
| Dowtherm A and E | X | X | X | X | - | - | - | - | - | - |
| Dry cleaning fluids | X | X | C | X | - | - | - | - | - | - |
| Ethanol | E | E | C | E | E | E | E | G | E | X |
| Ethanol amine | C | E | C | X | - | - | - | - | - | - |
| Ethyl acetate | X | C | X | X | E | E | E | G | E | X |
| Ethyl acetoacetate | X | C | X | F | - | - | - | - | - | - |
| Ethyl acetone | X | G | X | - | - | - | - | - | - | - |
| Ethyl acrylate | X | C | X | X | - | - | - | - | - | - |
| Ethyl aldehyde | X | E | X | - | E | E | - | - | - | - |
| Ethyl Al dichloride | - | - | - | X | E | E | - | - | - | - |
| Ethyl amine | F | F | - | - | E | E | - | - | - | - |
| Ethyl benzene | X | X | X | X | E | E | G | - | - | - |
| Ethyl bromide | X | X | C | X | E | E | - | - | - | - |
| Ethyl butyl alcohol | - | - | X | - | - | - | - | - | - | - |
| Ethyl butyl amine | - | E | F | F | E | E | - | - | - | - |
| Ethyl butyl ketone | - | F | - | X | E | E | - | - | - | - |

C: CONDITIONAL E: EXCELLENT F: FAIR G: GOOD X: UNSATISFACTORY

| Fluid or material conveyed | Chloroprene | EPDM | NBR | SBR | UHMWPE | XLPE | Polyamide | Polyester | PTFE | PU |
|----------------------------|-------------|------|-----|-----|--------|------|-----------|-----------|------|----|
| Ethylbutyraldehyde | - | - | - | X | E | E | - | - | - | - |
| Ethyl butyrate | - | - | - | X | E | E | - | - | - | - |
| Ethyl cellulose | C | C | - | G | E | E | - | - | - | - |
| Ethyl chloride | - | C | E | G | E | E | E | X | E | F |
| Ethyl dichloride | - | X | X | X | E | E | - | - | - | - |
| Ethyl ether | X | X | X | X | E | E | - | - | - | - |
| Ethyl formate | 2 | C | - | X | - | - | - | - | - | - |
| Ethyl iodide | X | F | X | - | E | E | - | - | - | - |
| Ethyl phthalate | X | F | X | - | E | E | - | - | - | - |
| Ethylene chlorohydrine | C | C | X | G | - | - | X | X | E | X |
| Ethylene diamine | E | E | C | G | E | E | - | - | - | - |
| Ethylene dibromide | X | C | X | X | F | F | - | - | - | - |
| Ethylene dichloride | X | X | X | X | F | F | F | X | E | X |
| Ethylene glycol | E | E | E | E | E | E | E | E | E | G |
| Ethylene oxide gas | - | X | - | - | E | E | - | - | - | - |
| Fatty acids | C | X | C | X | G | E | - | - | - | - |
| Ferric bromide | - | - | E | - | - | - | - | - | - | - |
| Ferric chloride | C | E | E | E | E | - | X | F | E | E |
| Ferric nitrate | E | E | E | E | E | - | E | G | E | E |
| Ferric sulfate | E | E | E | E | E | - | E | F | E | G |
| Ferrous acetate | X | G | X | - | - | - | - | - | - | - |
| Ferrous chloride | E | E | E | - | E | - | - | G | E | - |
| Ferrous hydroxide | - | X | - | X | E | E | - | - | - | - |
| Ferrous sulfate | E | E | E | E | E | - | E | E | E | G |
| Fluoboric acid | E | E | - | E | E | E | - | - | - | - |
| Fluorosilicic acid | E | E | E | G | E | E | - | - | - | - |
| Formaldehyde | C | C | C | G | E | E | F | F | E | X |
| Formalin | G | E | G | G | E | E | G | - | - | - |
| Formic acid | C | E | C | E | E | E | X | X | E | X |
| Freon SO2 | F | - | - | - | E | E | - | - | - | - |
| Freon 12 | C | C | C | E | G | F | E | E | E | G |
| Freon 22 | X | C | X | E | E | F | E | X | E | X |
| Fuel B (ASTM) | X | X | C | X | - | - | - | - | - | - |
| Fuel C (ASTM) | X | X | E | X | E | E | - | - | - | - |
| Fuel oil | C | X | E | X | E | E | - | - | E | - |
| Furan | X | X | X | X | E | E | - | - | - | - |
| Furfural | X | C | X | X | E | E | F | G | E | X |
| Furfuryl alcohol | X | C | X | X | E | E | - | - | - | - |
| Gallic acid | C | C | C | G | E | E | E | G | E | X |
| Gas, coke | - | - | F | X | - | - | - | - | - | - |
| Gas, liquified petrol | X | X | F | X | E | E | - | - | - | - |
| Gasoline | - | X | E | X | E | E | E | E | E | E |
| Gluconic acid | E | - | C | - | - | - | - | - | - | - |
| Glucose | C | E | E | E | E | E | G | - | E | - |
| Glycerine | E | E | E | E | E | E | E | E | E | X |
| Glycols | E | E | E | E | E | E | G | - | E | - |
| Glycolic acid | E | E | F | - | G | G | - | - | - | - |

C: CONDITIONAL E: EXCELLENT F: FAIR G: GOOD X: UNSATISFACTORY

| Fluid or material conveyed | Chloroprene | EPDM | NBR | SBR | UHMWPE | XLPE | Polyamide | Polyester | PTFE | PU |
|----------------------------|-------------|------|-----|-----|--------|------|-----------|-----------|------|----|
| Ethylglycol alcohol | - | - | - | - | E | E | - | - | - | - |
| Grease | F | X | E | X | E | E | E | E | E | E |
| Green sulphate liquor | F | E | E | G | E | E | - | - | - | - |
| Halon 1211 | E | - | E | - | E | - | - | - | - | - |
| Helium | E | E | E | E | E | E | E | E | E | E |
| Heptanal | C | C | E | X | E | E | - | - | - | - |
| Heptane | C | X | E | X | E | E | E | G | E | G |
| Heptane carboxyl acid | - | - | - | X | E | E | - | - | - | - |
| Hexaldehyde | C | C | X | X | E | E | - | - | - | - |
| Hexane | C | X | E | X | E | E | G | E | E | G |
| Hexanol | C | C | C | E | E | E | - | - | - | - |
| Hexene | C | X | C | X | E | E | - | - | - | - |
| Hexyl alcohol | C | C | C | E | E | E | - | - | - | - |
| Hexylamine | G | G | F | G | E | E | - | - | - | - |
| Hexylene glycol | E | F | C | G | E | E | - | - | - | - |
| Hexyl methyl ketone | C | G | X | X | E | E | - | - | - | - |
| Hydraulic oil | - | X | E | X | E | E | G | - | E | G |
| Hydrazine | C | E | C | G | E | E | - | - | - | - |
| Hydrobromic acid | C | E | X | X | E | E | X | X | E | X |
| Hydrochloric acid 15% | - | E | - | X | E | E | G | G | E | X |
| Hydrocl.ac.37% (cold) | - | E | - | X | E | E | - | - | - | - |
| Hydrocl.ac.37% (hot) | - | X | - | X | E | E | - | - | - | - |
| Hydrocyanic acid | C | E | C | G | E | E | X | X | E | X |
| Hydrofluoric acid cold | - | X | - | X | E | E | - | - | - | - |
| Hydrofluoric acid hot | - | X | - | X | E | E | - | - | - | - |
| Hydrofluosilicic acid | C | E | X | G | E | E | - | - | - | - |
| Hydrogen dioxide 10% | - | - | - | X | E | E | - | - | - | - |
| Hydrogen gas | E | E | E | G | E | E | E | E | E | E |
| Hydrogen perox 10% | F | G | F | X | E | E | - | - | - | - |
| Hydrogen perox > 10% | - | - | - | X | E | E | - | - | - | - |
| Hydrogen sulfide | E | E | X | X | E | E | X | E | E | X |
| Iodine | C | C | C | G | E | E | - | C | - | - |
| Iron acetate | - | G | - | X | E | E | - | - | - | - |
| Iron salts | E | E | E | E | E | E | G | - | - | - |
| Isoamyl acetate | - | G | - | X | E | E | - | - | - | - |
| Isoamyl alcohol | - | E | E | E | E | E | - | - | - | - |
| Isoamyl bromide | - | X | - | X | E | E | - | - | - | - |
| Isobutane | - | X | E | X | E | E | G | - | - | C |
| Isobutyl acetate | X | - | - | X | E | E | - | - | E | X |
| Isobutyl aldehyde | - | G | X | X | E | E | - | - | - | - |
| Isobutyl amine | X | G | X | G | E | E | - | - | - | - |
| Isobutyl bromide | X | X | X | X | - | E | - | - | - | - |
| Isobutyl carbinol | E | E | E | E | E | E | - | - | - | - |
| Isobutyl chloride | X | X | X | X | - | E | - | - | - | - |
| Isobutylene | X | X | G | X | E | E | - | - | - | - |
| Isobutyl ether | X | X | G | X | E | E | - | - | E | G |
| Isooctane | C | X | E | X | E | E | E | E | E | E |
| Isopentane | X | X | E | X | E | E | - | - | - | - |
| Isopropanol amine | - | - | G | G | E | E | - | - | - | - |

C: CONDITIONAL E: EXCELLENT F: FAIR G: GOOD X: UNSATISFACTORY

CHEMICAL RESISTANCE CHART

| Fluid or material conveyed | Chloroprene | EPDM | NBR | SBR | UHMWPE | XLPE | Polyamide | Polyester | PTFE | PU |
|----------------------------|-------------|------|-----|-----|--------|------|-----------|-----------|------|----|
| Isopropyl acetate | X | C | X | X | E | E | E | F | E | X |
| Isopropyl alcohol | C | E | C | E | E | E | E | F | E | X |
| Isopropyl amine | - | E | G | G | E | E | - | - | - | - |
| Isopropyl benzene | X | X | - | X | E | E | - | - | - | - |
| Isopropyl ether | X | X | G | X | E | E | - | - | E | G |
| Isopropyl toluene | X | X | X | X | E | E | - | - | - | - |
| Jet fuels | C | X | C | X | E | E | - | - | - | - |
| Kerosene | C | X | E | X | E | E | E | E | E | G |
| Ketones | C | E | C | E | E | E | E | X | E | X |
| Laquers solvents | X | X | X | X | E | E | E | X | E | X |
| Lactic acid (cold) | C | C | C | G | G | G | - | - | - | - |
| Lactic acid (hot) | C | C | E | X | E | E | E | G | E | F |
| Lard | C | C | E | X | E | G | E | G | E | F |
| Lauryl alcohol | - | E | E | E | E | E | - | - | - | - |
| Lead sulfate | E | E | E | E | E | E | - | - | - | - |
| Lime bleach | C | E | C | E | E | E | - | - | E | - |
| Lime sulfur | E | E | E | C | E | E | - | - | - | - |
| Linoleic acid | C | X | C | X | E | E | - | - | E | - |
| Linseed oil | E | C | E | X | E | E | G | - | E | - |
| Liquid Petroleum Gas | G | X | E | X | E | E | E | G | E | F |
| Lubricating oils | C | X | C | X | E | E | - | - | - | - |
| Lye solutions | G | G | C | G | E | E | - | - | - | - |
| Magnesium acetate | X | G | X | X | E | E | - | - | - | - |
| Magnesium chloride | E | E | E | E | E | E | E | G | E | E |
| Magnesium hydrate | C | E | C | G | E | E | G | F | E | X |
| Magnesium hydroxide | C | E | C | G | E | E | G | F | E | X |
| Magnesium sulfate | E | E | E | G | E | E | - | G | E | - |
| Maleic acid | X | C | X | X | E | E | F | - | E | X |
| Maleic anhydride | X | C | X | X | E | E | - | - | E | - |
| Malic acid | C | C | E | G | C | C | - | - | - | - |
| Manganese sulphate | - | E | - | G | E | E | - | - | - | - |
| Manganese sulphite | - | E | - | G | E | E | - | - | - | - |
| M.E.K | - | G | - | X | E | E | - | - | - | - |
| Mercury | E | E | E | E | E | E | G | - | E | - |
| Mesityl oxide | - | C | - | X | E | E | - | - | - | - |
| Methallyl alcohol | E | E | E | E | E | E | - | - | - | - |
| Methanecarboxylic acid | G | X | - | X | E | E | - | - | - | - |
| Methanoic acid | E | E | G | E | E | E | - | - | - | - |
| Methanol | E | E | C | E | E | E | E | G | E | X |
| Methoxy ethanol | - | E | X | X | E | E | - | - | - | - |
| Methyl acetate | C | C | X | X | E | E | E | G | E | X |
| Methyl acetone | X | E | X | X | E | E | - | - | - | - |
| Methyl alcohol | E | E | E | E | E | E | - | - | - | - |
| Methyl allyl alcohol | - | E | x | E | E | E | - | - | - | - |
| Methyl allyl acetate | - | - | - | X | E | E | - | - | - | - |
| Methyl allyl chloride | - | - | - | X | G | E | E | X | X | X |
| Methyl amyl acetate | X | - | - | X | G | E | - | - | - | - |

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|------------------------------|-------------|------|-----|-----|--------|------|-----------|-----------|------|----|
| Methyl amyl carbinol | G | E | G | E | E | E | - | - | - | - |
| Methyl benzene | X | X | X | X | G | G | - | - | - | - |
| Methyl bromide | X | X | C | X | E | E | E | X | E | X |
| Methyl butane | - | X | G | X | - | E | - | - | - | - |
| Methyl butanol | - | E | E | E | E | E | - | - | - | - |
| Methyl butyl ketone | - | G | - | X | E | E | - | - | - | - |
| Methyl carbitol | - | - | - | X | E | E | - | - | - | - |
| Methyl cellosolve | - | G | 3 | X | E | E | - | - | - | - |
| Methyl chloride | X | C | X | X | F | F | E | G | E | E |
| Methyl cyclohexane | X | X | X | X | E | E | - | - | - | - |
| Methylene bromide | X | X | C | X | E | E | E | X | E | X |
| Methylene chloride | X | C | X | X | F | F | E | X | E | X |
| Methyl ethyl ketone | X | E | X | X | E | E | E | G | E | X |
| Methyl hexanol | E | E | E | E | E | E | - | - | - | - |
| Methyl hexanone | X | G | X | X | E | E | - | - | - | - |
| Methyl isobut carbinol | X | C | X | G | E | E | - | - | - | - |
| Methyl methacrylate | - | X | - | X | E | E | F | - | E | X |
| Methyl n amyl chetone | - | - | - | X | E | E | - | - | - | - |
| Methyl propyl ether | X | X | X | X | E | E | - | - | - | - |
| Methyl salicylate | X | C | X | X | E | E | - | - | - | - |
| Methyl ter butyl ether | - | - | - | XX | E | E | - | - | - | - |
| Methyl 1,2-pentanediol | - | - | - | X | E | E | - | - | - | - |
| Methylene bromide | X | X | C | X | E | E | E | X | E | X |
| Methylene chloride | X | C | X | X | F | F | E | X | E | X |
| Methyl isobutyl cheton | 3 | X | X | X | E | E | - | - | - | - |
| Mineral Spirits | C | X | E | X | E | E | - | - | - | - |
| Molten sulphur | E | E | G | G | - | - | - | - | - | - |
| Monobutyl ether | C | C | G | X | E | E | - | - | - | - |
| Monochloroacetic acid | C | G | X | X | E | E | - | - | - | - |
| Monochlorobenzene | X | X | X | X | F | F | - | - | - | - |
| Monochlorodifluormet | X | X | - | X | E | E | - | - | - | - |
| Monoethanol amine | G | C | G | G | E | E | - | - | - | - |
| Monoethyl amine | G | C | G | G | E | E | - | - | - | - |
| MTBE (ter butyl metil Ether) | - | - | X | - | E | - | - | - | - | - |
| Muriatic acid | C | F | C | X | E | E | G | - | E | - |
| Naphta | G | X | C | X | E | E | - | - | - | - |
| Naphtalene | X | X | X | X | E | E | E | E | E | F |
| Naphtenic acid | C | X | C | X | E | E | - | - | - | - |
| Natural gas | E | X | E | F | E | E | E | G | E | F |
| Neohexane | G | X | E | X | E | E | - | - | - | - |
| Nickel acetate | G | E | C | X | E | E | - | - | E | X |
| Nickel chloride | C | E | E | E | E | E | X | X | E | X |
| Nickel nitrate | E | E | E | E | E | E | - | - | - | - |
| Nickel sulphate | E | E | E | G | E | E | - | - | - | - |
| Nitric acid 10% | G | E | X | X | E | E | X | X | E | X |
| Nitric acid 20% | X | E | X | X | E | E | - | - | - | - |
| Nitric acid 30% | X | F | X | X | G | G | - | - | - | - |

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|----------------------------|-------------|------|-----|-----|--------|------|-----------|-----------|------|----|
| Nitric acid 40% | X | X | - | X | E | E | - | - | - | - |
| Nitric acid 40-60% | X | X | - | X | G | G | - | - | - | - |
| Nitric acid - fuming | X | X | - | X | X | X | - | - | - | - |
| Nitrobenzene | X | C | X | X | E | E | X | X | E | X |
| Nitrogen gas | E | E | E | E | E | E | G | - | E | - |
| Nitromethane | C | C | X | C | E | E | - | - | E | X |
| Nitrous oxide gas | C | E | X | E | E | E | - | - | E | - |
| Nitrocellulose | - | - | - | - | E | E | - | - | - | - |
| Nitropropane | - | - | - | - | E | E | - | - | - | - |
| Nonenes | - | X | G | X | E | E | - | - | - | - |
| Octadecanoic acid | - | X | G | X | E | E | - | - | - | - |
| Octane | - | X | E | X | E | E | G | E | E | X |
| Octanol | C | C | C | E | E | E | - | - | - | - |
| Octyl acetate | C | G | C | X | E | E | - | - | - | - |
| Octyl alcohol | C | C | C | E | E | E | - | - | E | X |
| Octyl aldehyde | - | - | X | X | E | E | - | - | - | - |
| Octyl amine | G | G | F | G | E | E | - | - | - | - |
| Octyl carbinol | E | E | E | E | E | E | - | - | - | - |
| Octylene glycol | E | E | E | E | E | E | - | - | - | - |
| Oil - petroleum | G | X | E | X | G | G | - | - | - | - |
| Oleic acid | G | X | G | X | E | E | E | X | E | X |
| Oleum | X | X | X | X | X | X | G | - | - | - |
| Olive oil | G | G | E | X | E | E | - | - | - | - |
| Orthodichlorobenzene | E | X | E | X | G | G | X | - | - | - |
| Orthodichlorobenzol | X | X | X | X | E | E | - | - | - | - |
| Orthoxylene | X | X | X | X | E | E | - | - | - | - |
| Oxalic acid | G | E | G | G | E | E | G | - | E | - |
| Oxygen | - | E | G | G | E | E | E | G | E | E |
| Ozone | F | E | X | X | E | E | X | G | E | E |
| Paint | - | G | G | X | E | E | - | - | - | - |
| Palmitic acid | G | C | E | G | E | E | X | E | E | E |
| Papermakers alum | G | C | E | G | E | E | - | - | - | - |
| Paraffin | G | X | E | X | X | X | G | - | - | - |
| Paraldehyde | G | E | C | X | E | E | - | - | - | - |
| Paraxylene | X | X | X | X | E | E | - | - | - | - |
| Pelargonic acid | - | - | G | X | E | E | - | - | - | - |
| Pentachloroethene | X | X | X | X | E | E | G | X | E | X |
| Pentadione | - | - | - | X | E | E | - | - | - | - |
| Pentane | G | X | E | X | E | E | G | - | - | X |
| Pentanone | - | - | - | X | E | E | - | - | - | - |
| Pentasol | G | - | C | G | E | E | - | - | - | - |
| Perchloric acid | X | - | X | X | E | E | X | X | E | X |
| Perchloroethylene | X | X | X | X | E | E | G | X | E | X |
| Petroleum crude | X | X | E | X | E | E | - | - | - | - |
| Petroleum ether | X | X | G | X | E | E | G | - | - | - |
| Petroleum oils | - | X | E | X | E | E | - | - | - | - |
| Phenol | - | X | X | X | E | E | X | X | E | X |
| Phenolsulphonic acid | - | X | - | X | E | E | - | - | - | - |
| Phenylamine | - | - | - | X | E | E | - | - | - | - |

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|----------------------------|-------------|------|-----|-----|--------|------|-----------|-----------|------|----|
| Phenyl chloride | E | E | E | E | E | E | - | - | - | - |
| Phenylhydrazine | X | G | X | G | E | E | - | - | - | - |
| Phosphoric acid 10% | G | E | - | E | E | E | G | X | E | X |
| Phosphoric acid 10-85% | E | E | E | G | E | E | - | - | - | - |
| Picric acid (alcoholic) | - | G | - | G | E | E | - | - | G | - |
| Pine oil | X | X | E | X | E | E | G | - | E | - |
| Pinene | C | X | C | X | E | E | - | - | - | - |
| Polyethylene glycol | E | E | E | E | E | E | - | - | - | - |
| Polyol ester | X | X | G | X | E | E | - | - | - | - |
| Polypropylene glycol | E | E | E | E | E | E | - | - | E | G |
| Potassium acetate | E | E | E | G | E | E | G | G | G | - |
| Potassium bisulfate | E | E | E | G | E | E | - | - | - | - |
| Potassium carbonate | E | E | E | E | E | E | E | G | E | X |
| Potassium chloride | E | E | E | E | E | E | E | X | E | G |
| Potassium chromate | G | E | E | G | E | E | G | G | E | G |
| Potassium cyanide | E | E | E | E | E | E | E | E | G | E |
| Potassium dichromate | E | E | G | E | E | E | G | G | E | G |
| Potassium hydroxide | G | E | G | G | E | E | - | - | E | - |
| Potassium nitrate | E | E | E | E | E | E | G | - | E | - |
| Potassium permanganate | - | - | - | - | E | E | - | - | - | - |
| Potassium silicate | E | E | E | E | E | E | - | - | - | - |
| Propane | E | X | E | X | E | E | E | G | E | F |
| Propanediol | G | E | - | E | E | E | - | - | - | - |
| Propanol | - | E | - | E | E | E | - | - | - | - |
| Propanolamine | - | - | - | - | E | E | - | - | - | - |
| Propanone | X | E | X | G | E | E | - | - | - | - |
| Propenenitrile | X | X | X | X | X | E | - | - | - | - |
| Propionic acid | - | G | - | - | E | E | - | - | - | - |
| Propyl acetate | - | G | - | X | E | E | - | - | - | - |
| Propyl alcohol | - | E | E | E | E | E | - | X | E | E |
| Propyl aldehyde | X | X | X | X | X | X | - | - | - | - |
| Propyl benzene | X | 3 | X | X | E | E | - | - | - | - |
| Propyl chloride | F | F | X | X | E | E | - | - | - | - |
| Propyl ether | - | - | - | - | E | E | - | - | - | - |
| Propylene | X | X | X | X | E | E | - | - | - | - |
| Propylene dichloride | X | X | X | X | E | E | G | G | E | G |
| Propylene glycol | X | C | X | X | X | X | - | - | - | - |
| Red oil | F | F | 1 | X | E | E | - | - | - | - |
| Resorcinol | E | G | C | G | E | E | - | - | - | - |
| Richfield A, 100% | - | - | - | - | E | E | - | - | - | - |
| Richfield D, 33% | - | - | - | - | E | E | - | - | - | - |
| Sea water | E | E | E | E | E | E | E | E | E | X |
| Sewage | C | G | E | G | E | E | - | - | - | - |
| Silicate esters | E | X | G | C | E | E | G | F | E | E |
| Silicate of soda | E | E | E | E | E | E | - | - | - | - |
| Silicone grease | E | E | E | E | E | E | E | E | E | E |
| Silicone oil | E | E | E | E | E | E | G | G | E | E |
| Silver nitrate | E | E | E | X | E | E | G | G | E | X |
| Skydrol 500B | X | E | X | X | E | E | E | G | E | X |

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| Fluid or material conveyed | Chloroprene | EPDM | NBR | SBR | UHMWPE | XLPE | Polyamide | Polyester | PTFE | PU |
|----------------------------|-------------|------|-----|-----|--------|------|-----------|-----------|------|----|
| Soap solutions | G | E | E | X | E | E | G | E | E | F |
| Soda ash | E | E | E | X | E | E | - | - | - | - |
| Soda, caustic | - | G | - | G | E | E | - | - | - | - |
| Soda lime | G | - | G | E | E | E | - | - | - | - |
| Sodium acetate | C | E | G | X | E | E | G | - | E | X |
| Sodium aluminate | E | E | E | G | E | E | - | - | - | - |
| Sodium bicarbonate | E | E | E | E | E | E | G | - | E | - |
| Sodium bisulphate | E | E | E | G | E | E | - | - | - | - |
| Sodium bisulphite | E | E | E | G | E | E | - | - | - | - |
| Sodium borate | E | E | E | E | E | E | - | - | - | - |
| Sodium chloride | E | E | E | E | E | E | G | G | E | G |
| Sodium cyanide | E | E | E | E | E | E | - | - | - | - |
| Sodium dichromate | F | E | - | G | E | E | - | - | - | - |
| Sodium Hypochlorite | G | G | X | G | E | E | - | - | - | - |
| Sodium metaphosphate | E | E | E | E | E | E | - | - | - | - |
| Sodium nitrate | G | E | C | G | E | E | G | G | E | G |
| Sodium perborate | G | E | C | G | E | E | - | - | - | - |
| Sodium peroxide | G | E | C | G | E | E | X | G | E | X |
| Sodium silicate | E | E | E | E | E | E | - | - | - | - |
| Sodium Thiosulfate | E | E | E | - | E | E | G | - | - | - |
| Soybean oil | E | C | E | X | E | E | - | - | - | - |
| Stannic chloride | G | E | E | E | E | E | E | E | E | E |
| Steam, max 176°C | X | E | X | X | X | X | - | - | - | - |
| Stearic acid | G | G | G | G | E | E | E | G | E | E |
| Stoddarts solvent | X | X | X | X | F | F | - | - | - | - |
| Styrene | X | X | X | X | F | F | E | G | E | G |
| Sulphamic acid | G | E | C | G | E | E | - | - | - | - |
| Sulphonic acid | X | X | X | X | E | E | - | - | - | - |
| Sulphur | - | X | - | X | E | E | G | - | E | - |
| Sulphur dioxide | C | E | X | G | G | E | X | X | E | X |
| Sulphur trioxide | X | X | X | X | X | X | - | - | - | - |
| Sulphydic acid (H2S) | X | X | X | X | E | E | - | - | - | - |
| Sulphuric acid 25% | C | E | C | F | E | E | - | G | E | - |
| Sulphuric acid 50% | E | E | E | X | E | E | - | - | - | - |
| Sulphuric acid 75% | X | X | X | X | E | E | - | - | - | - |
| Sulphuric acid 96% | X | X | X | X | E | E | - | - | - | - |
| Sulphuric acid 98% | X | X | X | X | G | G | - | - | - | - |
| Sulphuric acid - fuming | X | X | X | X | X | X | - | - | - | - |
| Sulphurous acid 10% | C | E | E | G | E | E | X | E | E | X |
| Sulphurous acid 85% | - | E | - | X | E | E | - | - | - | - |
| Tall oil | C | E | E | E | E | E | - | - | - | - |
| Tallow | - | X | E | X | E | E | G | - | - | - |
| Tannic acid | E | E | E | G | E | E | E | E | E | E |
| Tar | X | X | X | X | X | X | G | G | E | G |
| Tartaric acid | X | G | G | G | E | E | E | G | E | E |
| Tertiary butyl alcohol | - | C | C | G | E | E | - | - | E | X |
| Tertiary butyl mercapt | - | X | X | X | X | X | - | - | E | X |
| Tetrachlorobenzene | X | X | X | X | G | G | - | - | - | - |

C: CONDITIONAL E: EXCELLENT F: FAIR G: GOOD X: UNSATISFACTORY

| Fluid or material conveyed | Chloroprene | EPDM | NBR | SBR | UHMWPE | XLPE | Polyamide | Polyester | PTFE | PU |
|----------------------------|-------------|------|-----|-----|--------|------|-----------|-----------|------|----|
| Tetrachloroetane | X | X | X | X | F | F | - | - | - | - |
| Tetrachloroethylene | X | X | C | X | F | F | F | - | E | X |
| Tetrachloromethane | X | X | X | X | E | E | G | X | E | X |
| Tetrachloronaphthalene | X | X | X | X | E | E | - | - | - | - |
| Tetrahydrofuran | X | X | X | X | X | X | G | - | - | C |
| Tin chloride | C | E | E | E | E | E | G | - | - | - |
| Toluene | - | X | X | X | E | E | G | C | E | C |
| Toluidine | X | X | C | X | F | X | - | - | - | - |
| Toluol | X | X | X | X | E | E | G | - | E | - |
| Transformer oil | X | X | X | X | E | E | G | - | E | G |
| Tributyl amine | G | - | G | G | E | E | - | - | - | - |
| Trichloroacetic acid | - | G | - | X | E | E | X | X | E | X |
| Trichlorobenzene | X | X | X | X | G | G | - | - | - | - |
| Trichloroethane | X | X | X | X | G | G | - | - | E | - |
| Trichloroethylene | X | X | X | X | F | F | G | X | E | X |
| Trichloropropane | X | X | X | X | F | F | G | X | E | X |
| Tricresyl phosphate | E | - | E | X | E | E | - | - | - | - |
| Triethanolamine | F | E | E | G | E | E | - | - | - | - |
| Triethylamine | G | G | F | X | E | E | - | - | - | - |
| Triethylene glycol | - | E | C | E | E | E | - | - | - | - |
| Trimethylamine | C | E | C | G | E | E | - | - | - | - |
| Trinitrotoluene | X | E | X | E | G | G | - | - | - | - |
| Trioctyl phosphate | - | - | - | X | E | E | - | - | - | - |
| Tung oil | C | X | E | X | E | E | G | G | E | F |
| Turpentine | X | X | X | X | E | E | E | G | E | X |
| Urea | G | E | G | E | E | E | E | G | E | G |
| Vegetable oils | C | F | F | E | E | E | G | - | E | G |
| Vinegar | G | E | G | G | E | E | E | F | E | X |
| Vinyl acetate | C | G | C | X | X | X | - | - | - | - |
| Vinyl benzene | X | X | C | X | X | F | - | - | - | - |
| Vinyl chloride | X | X | X | X | E | E | G | - | E | - |
| Vinyl cyanide | X | X | X | X | G | G | - | - | - | - |
| Vinyl ether | - | X | - | X | E | E | - | - | - | - |
| Vinyl Trichloride | - | X | - | X | G | G | - | - | - | - |
| Water | G | E | E | E | E | E | E | E | E | E |
| White oil | G | X | E | X | E | E | - | - | E | E |
| Wines | - | - | E | E | E | E | - | G | E | - |
| Wood oil | G | X | E | X | E | E | G | G | E | F |
| Xylene | X | X | X | X | G | G | G | F | E | X |
| Zinc acetate | E | E | E | E | E | E | - | - | - | - |
| Zinc chloride | E | E | E | E | E | E | G | F | E | G |
| Zinc chromate | E | E | E | - | E | E | - | - | - | - |
| Zinc sulphate | E | E | E | E | E | E | - | G | E | - |

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