

Providing Flexible Solutions Globally



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

REV 08 2023

ABOUT US



25+ Years

Since 1996 focused mainly on the Design, Development, Manufacturing and Distribution of High-Quality and Reliable Energy Conveyance Products



GLOBAL PRESENCE

9 Countries

INDIA

5 Manufacturing Units
7 Assembly Units



PRODUCTION CAPACITY

HOSE

150 Million Meters / Year

HOSE ASSEMBLIES

9 Million / Year



3500+

Employees

CREDENTIALS



POLYHOSE IS COMMITTED TO

- ✓ Redefining polymer engineering
- ✓ Innovation and Customization
- ✓ Quality Excellence as per Global Standards
- ✓ Long-term and collaborative partnerships
- ✓ On-Time Delivery
- ✓ Dedicated Customer Support
- ✓ Global Presence



Our mantra to success

Redefining
Innovation

Redefining
Customer
Support

Redefining
Polymer
Engineering

INDEX

INTRODUCTION	Pg No.
HOSE COVER OPTION	4
CONSTANT PRESSURE HOSE AND ISO 18752	5
ASSEMBLY MANUAL	6-11
VELOCITY NOMOGRAM	12
PRESSURE DROP DETERMINATION	13

RUBBER HYDRAULIC HOSE RANGE

RUBBER - LOW & MEDIUM PRESSURE HYDRAULIC HOSE	Pg No.
PH253 SAE 100R1AT / EN 853-1SN / ISO 1436 HYDRAULIC HOSE	14
PH243 EN 853-1ST HYDRAULIC HOSE	14
PH257 EN 857-1SC / ISO 11237-1 HYDRAULIC HOSE	15
PH296 EXCEEDS EN 857-1SC 1W COMPACT HYDRAULIC HOSE	15
PH254 SAE 100R2AT / EN 853-2SN / ISO 1436 HYDRAULIC HOSE	16
PH244 EN 853-2ST HYDRAULIC HOSE	16
PH258 SAE 100R16 / EN 857-2SC / ISO 11237-1 HYDRAULIC HOSE	17
PH297 EXCEEDS SAE 100R16 / EN 857-2SC COMPACT HYDRAULIC HOSE	17
PH293 SAE 100R17 1W OR 2W BRAIDED HYDRAULIC HOSE	18
PH295 SAE 100R19 1W OR 2W BRAIDED HYDRAULIC HOSE	18
PH213 ISO-BARIC 3K - 3000PSI HYDRAULIC HOSE	19
PH214 ISO-BARIC 4K - 4000PSI HYDRAULIC HOSE	20
PH215 ISO-BARIC 5K - 5000PSI HYDRAULIC HOSE	21
PH216 ISO-BARIC 6K - 6000PSI HYDRAULIC HOSE	22
PH290 PILOT HOSE - 1W BRAIDED HYDRAULIC HOSE	22
PH142 2W BRAIDED HIGH PRESSURE HYDRAULIC HOSE	23
PH276 3W BRAIDED HIGH PRESSURE HYDRAULIC HOSE	23
PH245 SAE 100R4 HYDRAULIC SUCTION HOSE	24
PH146 SAE 100R5 HYDRAULIC HOSE	24
PH186 EXCEEDS SAE 100R5 HI-TEMP HYDRAULIC HOSE	25
PH250 SAE 100R3 HYDRAULIC HOSE	25
PH147 SAE 100R6 HYDRAULIC HOSE	26
PH204 R6 FRAS MSHA	26
PH261 EN 854-1TE HYDRAULIC HOSE	27
PH262 EN 854-2TE HYDRAULIC HOSE	27
PH263 EN 854-3TE HYDRAULIC HOSE	28
PH175 2W BRAIDED HIGH PRESSURE JACK HOSE	28

PRESSURE WASHER HOSE	Pg No.
PH513 PW - 3K - 3000PSI	29
PH514 PW - 4K - 4000PSI	29
PH516 PW - 6K - 6000PSI	30
PH521 SUPER SERVICE HOSE - 1W	30
PH522 SUPER SERVICE HOSE - 2W	31

HIGH PRESSURE SPIRAL HOSE	Pg No.
PH177 MEDIUM PRESSURE HYDRAULIC HOSE - 4 WIRE SPIRAL	31
PH178 HIGH PRESSURE HYDRAULIC HOSE - 4 OR 6 WIRE SPIRAL	32
PH279 HIGH PRESSURE HYDRAULIC HOSE - 4 OR 6 WIRE SPIRAL	32
PH277 MEDIUM PRESSURE HYDRAULIC HOSE - 4 WIRE SPIRAL	33
PH278 EXTRA HIGH PRESSURE HYDRAULIC HOSE - 4 WIRE SPIRAL	33
PH183 FIRE SHIELD HOSE 5000PSI	34

WATER BLAST HOSE	Pg No.
PH280 WATER BLAST 30K - 4 WIRE SPIRAL	34
PH281 WATER BLAST 40K - 4 WIRE SPIRAL	35
PH282 WATER BLAST 45K - 4 WIRE SPIRAL	35
PH283 WATER BLAST 50K - 6 WIRE SPIRAL	36

MINING HOSE	Pg No.
PH174 MINING HYDRAULIC HOSE - 2W	36

FUEL HOSE	Pg No.
PH442 HARD WALL FUEL DISPENSING HOSE - 1W	37
PH443 SOFT WALL FUEL DISPENSING HOSE	37
PH531 FUEL HOSE	38

PH532 FUEL HOSE	38
PH534 LPG HOSE - 1W	39
PH535 LPG HOSE	39
PH536 CNG HOSE	40
PH542 SAE J30R7 FUEL & OIL HOSE	40

AUTOMOBILE & AIR CONDITIONING HOSE	Pg No.
PH140 HI TEMP BRAKE HOSE	41
PH503 AIR CONDITIONING HOSE - 1W	41
PH540 AIR BRAKE HOSE	42
PH550 AAR M618, M619 RAIL BRAKE HOSE	42

RUBBER INDUSTRIAL HOSE RANGE

INDUSTRIAL HOSE	Pg No.
PH242 FIRE SUPPRESSION HOSE 1W BRAIDED	43
PH440 COMPRESSED AIR HOSE - 40 BAR	43
PH471 STEAM HOSE - 1W - 10 BAR	44
PH472 STEAM HOSE - 2W - 18 BAR	44
PH475 STEAM HOSE WITH HELICAL WIRE - 20 BAR	45
PH555 NON CONDUCTIVE HOSE - 20 BAR	45
PH566 AIR BREATHING HOSE EN14593/14594 - 35 BAR	46
PH601 WATER SUCTION & DISCHARGE - 10 BAR	46
PH602 WATER DISCHARGE - 10 BAR	47
PH604 WATER SUCTION & DISCHARGE - 20 BAR	47
PH606 STEEL MILL WATER DELIVERY WITH FIBER GLASS COVER - 10 BAR	48
PH607 STEEL MILL WATER SUCTION & DELIVERY WITH FIBER GLASS COVER - 10 BAR	48
PH609 THERMOPLASTIC LINED PAINT SUCTION & DISCHARGE HOSE - 10 BAR	49
PH610 WATER DISCHARGE HOSE - 20 BAR	49
PH611 OIL / FUEL SUCTION & DISCHARGE HOSE - 10 BAR	50
PH613 OIL / FUEL DELIVERY HOSE - 10 BAR	50
PH614 OIL SUCTION & DISCHARGE HOSE - 20 BAR	51
PH615 OIL SUCTION & DISCHARGE HOSE - 40 BAR	51
PH617 OIL / FUEL DELIVERY HOSE - 20 BAR	52
PH620 AIR & WATER DISCHARGE HOSE - 10 BAR	52
PH621 CEMENT / PLASTER PLACEMENT HOSE - 10 BAR	53
PH622 HIGH PRESSURE PLASTER SPRAY HOSE - 40 BAR	53
PH623 BULK MATERIAL SUCTION & DISCHARGE HOSE - 10 BAR	54
PH624 SHOT BLASTING HOSE - 12 BAR	54
PH684 4-PLY SHOT BLASTING HOSE - 12 BAR	55
PH625 BUNKER TRUCK HOT AIR BLOWER HOSE - 10 BAR	55
PH626 DRY CEMENT DELIVERY / SILO HOSE - 10 BAR	56
PH628 ABRASIVE BULK MATERIAL SUCTION & DISCHARGE HOSE - 20 BAR	56
PH629 ABRASIVE BULK MATERIAL DISCHARGE HOSE - 10 BAR	57
PH630 AIR & WATER DISCHARGE HOSE - 20 BAR	57
PH631 INDUSTRIAL DUTY AIR HOSE - 20 BAR	58
PH639 BULK MATERIAL DISCHARGE HOSE - 20 BAR	58
PH642 XLPE CHEMICAL SUCTION & DISCHARGE HOSE - 17 BAR	59
PH645 UHMPE CHEMICAL SUCTION & DISCHARGE HOSE - 17 BAR	59
PH646 EPDM CHEMICAL SUCTION & DISCHARGE HOSE - 17 BAR	60
PH647 SLURRY & MUD WATER SUCTION & DISCHARGE HOSE - 10 BAR	60
PH648 UHMWPE SUCTION & DISCHARGE FOOD HOSE - 17 BAR	61
PH649 CONCRETE DELIVERY HOSE	61
PH651 RADIATOR HOSE - 3 BAR	62
PH657 OIL / FUEL DELIVERY HOSE - 20 BAR FRAS	62
PH661 MINE BLAST HANDLING HOSE - 20 BAR	63
PH663 AIR & WATER DISCHARGE HOSE - 20 BAR FRAS	63
PH681 SATURATED STEAM & HOT WATER DELIVERY HOSE - 7 BAR	64
PH687 MULTI PURPOSE HOSE - 20 BAR	64
PH690 AVIATION FUEL HOSE	64
PH693 FIRE SHIELD HOSE 305PSI	65
PH695 STEAM HOSE 18 BAR	65

THERMOPLASTIC PRODUCT RANGE

HYDRAULIC HOSE		Pg No.
PH148	MEDIUM PRESSURE HYDRAULIC HOSE - R7	66
PH149	HIGH PRESSURE HYDRAULIC HOSE -R8	66
PH194	LOW TEMPERATURE HOSE - R18	67
PH348	MEDIUM PRESSURE HYDRAULIC HOSE - 1W	67
PH349	HIGH PRESSURE HYDRAULIC HOSE - 2W	68
PH353	HIGH PRESSURE HYDRAULIC HOSE - R8	68
PH358	COMPACT HOSE - R7	69
PH761	HYBRID HOSE - 1W	69
PH762	HYBRID HOSE - 2W	69

SEWER JETTING HOSE		Pg No.
PH301	SEWER JET - 2500 PSI	70
PH302	SEWER JET - 3000 PSI	70
PH303	SEWER JET - 3600 PSI	71
PH304	SEWER JET - 4000 PSI	71
PH305	SEWER JET - 2800 PSI	72
PH306	SEWER JET - 3000 PSI	72
PH307	SEWER JET - 3600 PSI	73
PH308	SEWER JET - 3600 / 4000 PSI	73
PH309	SEWER JET - 3000 PSI	74

PAINT SPRAY HOSE		Pg No.
PH340	PAINT & AGGRESSIVE CHEMICAL SPRAY - 2W	74
PH341	PAINT & AGGRESSIVE CHEMICAL SPRAY - 1W	75
PH342	PAINT SPRAY - 1W	75
PH343	PAINT SPRAY - 2W	76
PH344 / PH345	HIGH PRESSURE PAINT SPRAY	76
PH346	VERY HIGH PRESSURE PAINT SPRAY	77
PH347	SUPER HIGH PRESSURE PAINT SPRAY	77
PH721/ PH722	FLUOROPOLYMER - LOW PRESSURE CONDUCTIVE / NON - CONDUCTIVE	78
PH727/ PH728	LOW PRESSURE CONDUCTIVE / NON - CONDUCTIVE	78
PH729/ PH730	LOW PRESSURE CONDUCTIVE / NON - CONDUCTIVE	79

HIGH PRESSURE HOSE		Pg No.
PH350	HIGH PRESSURE JACK HOSE	79
PH351	VERY HIGH PRESSURE JACK HOSE	80
PH352	VERY HIGH PRESSURE JACK HOSE - NON CONDUCTIVE	80
PH751	COMPACT JACK HOSE	81

INDUSTRIAL - AIR BREATHING HOSE		Pg No.
PH395	AIR BREATHING HOSE - 6000 PSI	81
PH396	AIR BREATHING HOSE - 7000 PSI	82

LUBRICATION HOSE		Pg No.
PH320 / PH321/ PH322	LUBRICATION GREASE HOSE	82
PH734	GREASE HOSE - LOW PRESSURE	83

CNG HOSE		Pg No.
PH324	ELECTRICALLY CONDUCTIVE CNG HOSE	83
PH325	ELECTRICALLY CONDUCTIVE CNG HOSE	84

REFRIGERATION HOSE		Pg No.
PH334	REFRIGERATION HOSE	84
PH326 / PH327 / PH328	BEVERAGE DISPENSING HOSE	85

MICRO BORE HOSE		Pg No.
PH354 / PH355	MICRO BORE HOSE	85

PILOT LINE HOSE		Pg No.
PH392	PILOT LINE HOSE	86

MOISTURE BLOK HOSE		Pg No.
PH758	MOISTURE BLOK HOSE	86

AUTOMOTIVE HOSE		Pg No.
PH771	CAB TILT HOSE	87
PH772	CLUTCH HOSE	87

PU DUCTING		Pg No.
HOSE NOMENCLATURE		88
POLYURETHANE DUCTING - STANDARD	STANDARD WALL THICKNESS	89
POLYURETHANE DUCTING - STANDARD C	STANDARD CONSTANT WALL THICKNESS	90
POLYURETHANE DUCTING - MEDIUM	MEDIUM WALL THICKNESS	91
POLYURETHANE DUCTING - MEDIUM C	MEDIUM CONSTANT WALL THICKNESS	92
POLYURETHANE DUCTING - HEAVY	HEAVY WALL THICKNESS	93
POLYURETHANE DUCTING - HEAVY C	HEAVY CONSTANT WALL THICKNESS	94

THERMOPLASTIC - INDUSTRIAL & AUTOMOTIVE TUBINGS		Pg No.
PRODUCT CODE NOMENCLATURE		95
POLYAMIDE TUBING	PA6 , PA11, PA12 TUBE	96
POLYURETHANE TUBING	PU TUBE	97
SPATTER TUBES	PU TUBE WITH SPATTER RESISTANT COVER	98
PTFE TUBING	PTFE TUBE	99-101
FLUORINATED ETHYLENE	FEP TUBE	102
PROPYLENE TUBING		

PTFE HOSE		Pg No.
PH179	PTFE HOSE - R14	103
PH311	PTFE HOSE - R14 - ELECTRICAL CONDUCTIVE	103
PH313	PTFE HOSE - R14 - INCREASED WALL	104
PH370	PTFE -CONVOLUTED HOSE	104
PH371	PTFE - ELECTRICAL CONDUCTIVE CONVOLUTED HOSE	105
PH372	TAPE WRAPPED CONVOLUTED HOSE	105
PH375	TAPE WRAPPED ELECTRICAL CONDUCTIVE CONVOLUTED HOSE	106
PH381	PTFE HOSE - R14 - 2 WIRE	106
PH382	PTFE - GAS HOSE	107
PH765	MEDIUM PRESSURE FLUORO-COMP HOSE	107
PH775	PTFE - GAS HOSE - ARAMID	108
PH776	PTFE - GAS HOSE - 1W	108
PH777	PTFE - BRAKE FLUID HOSE	108
PH778	PTFE - NITROGEN GAS HOSE	109
PH779	MEDIUM PRESSURE HOSE	109
PH1570	HIGH PRESSURE PTFE HOSE (D-PAC BRAID DESIGN)	110
PH782	PTFE - CONVOLUTED HOSE WITH HELIX WIRE AND STAINLESS STEEL - STANDARD WALL	110
PH783	PTFE - CONVOLUTED HOSE WITH HELIX WIRE AND POLYPROPYLENE YARN -STANDARD WALL	111
PH785	PTFE - CONVOLUTED HOSE WITH POLYPROPYLENE YARN - STANDARD WALL	111

UHP HOSE		Pg No.
UHP HOSE FITTING CODIFICATION		112
PH902	2 SPIRALS OF HIGH TENSILE STEEL WIRE	113
PH902P	2 SPIRALS OF HIGH TENSILE STEEL WIRE, 1 BRAID OF STEEL WIRE	113
PH902Q	4 SPIRALS OF HIGH TENSILE STEEL WIRE, 2 DENSE	
PH902QL	AND 2 OPEN LAYERS	114
PH902QZ		
PH903	2 SPIRALS OF HIGH TENSILE STEEL WIRE, 1 BRAID OF G.I STEEL WIRE	114
PH904	4 SPIRALS OF HIGH TENSILE STEEL WIRE	115
PH904R	4 SPIRALS OF HIGH TENSILE STEEL WIRE	115
PH906	6 SPIRALS OF HIGH TENSILE STEEL WIRE	116
PH906R	6 SPIRALS OF HIGH TENSILE STEEL WIRE	116
PH908	8 SPIRALS OF HIGH TENSILE STEEL WIRE	117

PVC HOSE		Pg No.
PH360	PNEUMATIC TOOL HOSE	118
PH361	SUPER SPRAY HOSE	118
PH362	WELDING HOSE	118
PH365	AIR / WATER HOSE	119
PH365L	AIR / WATER HOSE - LIGHT DUTY	119
PH367	PVC BRAIDED HOSE	120
PH367L	PVC BRAIDED HOSE - LIGHT DUTY	120
PH368	MULTIPURPOSE HOSE	120
PH767	FRAS AIR / WATER HOSE	121

COMPOSITE HOSE		Pg No.
PH801	POLY - TANKER HOSE - 7 BAR	122
PH802	POLY - OIL HOSE - 10 BAR	122
PH803	POLY - AVIATION FUEL HOSE - 7 BAR	122
PH804	POLY - FUEL HOSE - 7 BAR	123
PH805	POLY - PTFE CHEMICAL HOSE - 10 BAR	123
PH806	POLY - CHEMICAL HOSE SS - 10 BAR	123
PH807	POLY - CHEMICAL HOSE PP - 10 BAR	124
PH808	POLY - CHEMICAL DOCK HOSE - 14 BAR	124
PH809	POLY - DOCK PTFE HOSE - 14 BAR	124
PH810	POLY - DOCK PG HOSE - 14 BAR	125
PH811	POLY - OIL DOCK HOSE - 14 AR	125

COMPOSITE HOSE - FITTINGS	126-128
---------------------------	---------

SS FLEXIBLE HOSE		Pg No.
PRODUCT	CORRUGATED FLEXIBLE	129
NOMENCLATURE	HOSE - SS304 / 321 / 316L	
PH2000	MFM SERIES - MECHANICAL FORMED MEDIUM WEIGHT & MEDIUM FLEXIBILITY	130-131
PH2100	MFH SERIES - MECHANICAL FORMED MEDIUM WEIGHT WITH HIGH FLEXIBILITY	132-133
PH2200	HFM SERIES - HYDROFORMED LIGHT WEIGHT WITH MEDIUM FLEXIBILITY	134-135
PH2300	HFH SERIES - HYDROFORMED HEAVY WEIGHTWITH MEDIUM FLEXIBILITY	136-137
PH2400	HFM SERIES - HYDROFORMED MEDIUM WEIGHT WITH MEDIUM FLEXIBILITY	138-139

HYDRAULIC FITTING		Pg No.
CODIFICATION / REFERENCE / INSERT AND FERRULE CHART		140-156

ACCESSORIES		Pg No.
PH369 PROTECTIVE SLEEVE		157
PH368HG - SPIRAL GUARD		158
NYLON BUNDLE STRAP		159
SPILL PLUGS		159

PRODUCT INDEX	160-166
---------------	---------

INTERNATIONAL STANDARD AND HOSE SELECTION MATRIX	167-169
--	---------

CHEMICAL RESISTANCE CHART	170-175
---------------------------	---------

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.

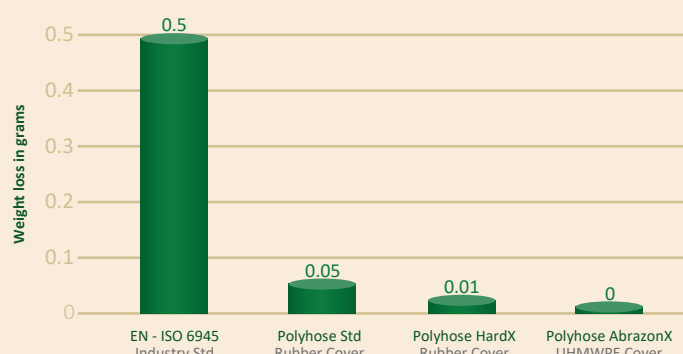
HARD-X COVER :

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.

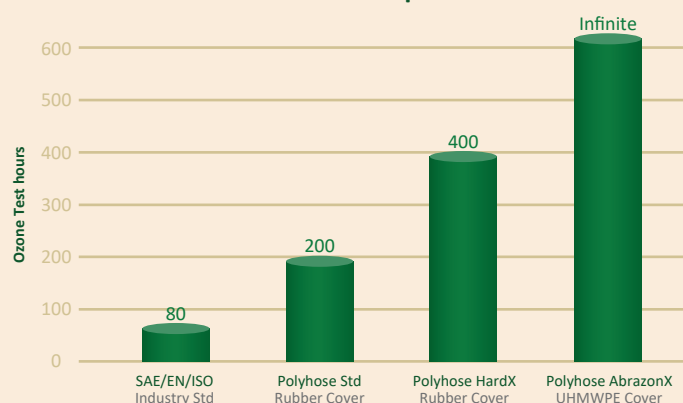
ABRAZON-X COVER :

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.)

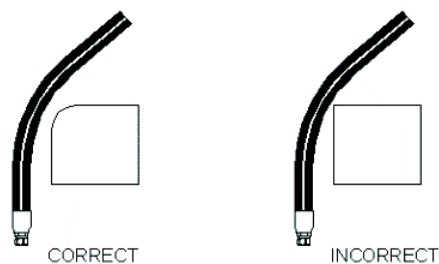


Figure 1.1 - Prevention of external damage

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.

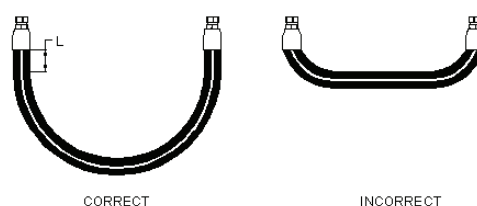


Figure 1.2A - Minimum bend radius

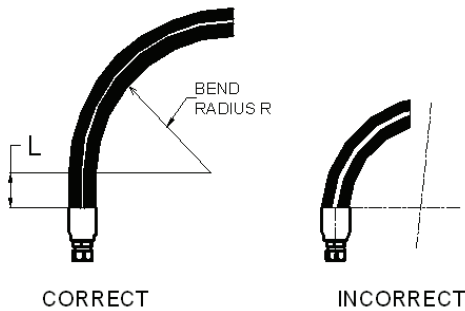


Figure 1.2B - Minimum bend radius

1.22 Elbows and Adapters

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

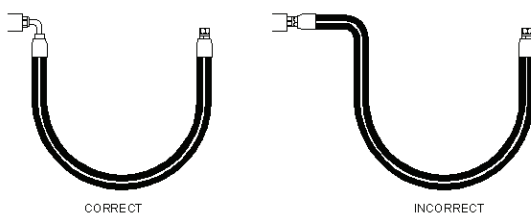


Figure 1.3 - Elbows and adapters

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.

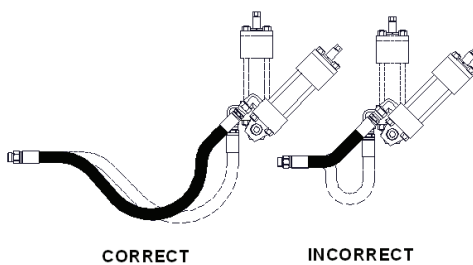


Figure 1.4 - Motion absorption

1.23.2 Hose and Machine Tolerances

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

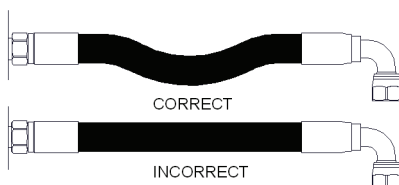


Figure 1.5 - Hose and machine tolerances

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.

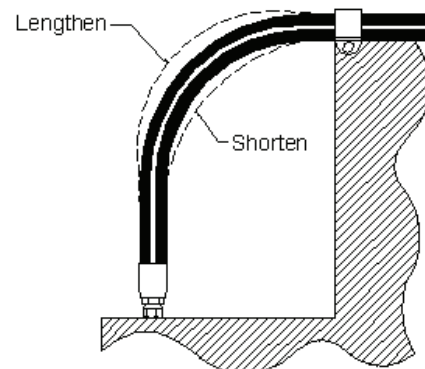


Figure 1.6 - Hose length change due to pressure

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

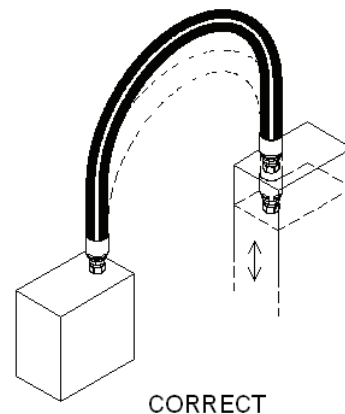


Figure 1.7A - Bend in only one plane to avoid twisting

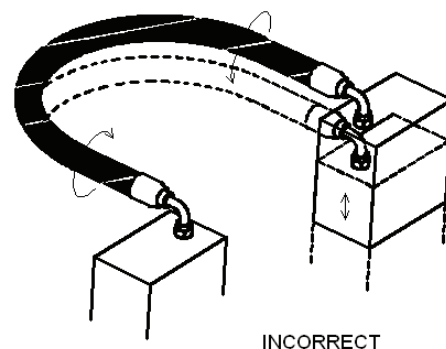


Figure 1.7B - Bend in only one plane to avoid twisting

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.

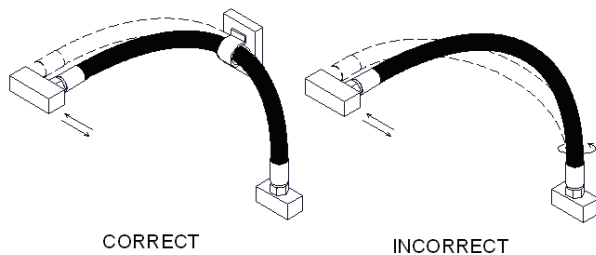


Figure 1. 8 - Prevent hose bending in more than one plane

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.

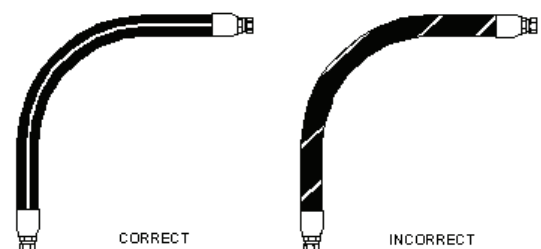


Figure 9 - Twist angle and orientation

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: $V_{fps} = \frac{.321Q}{\frac{pd^2}{4}}$

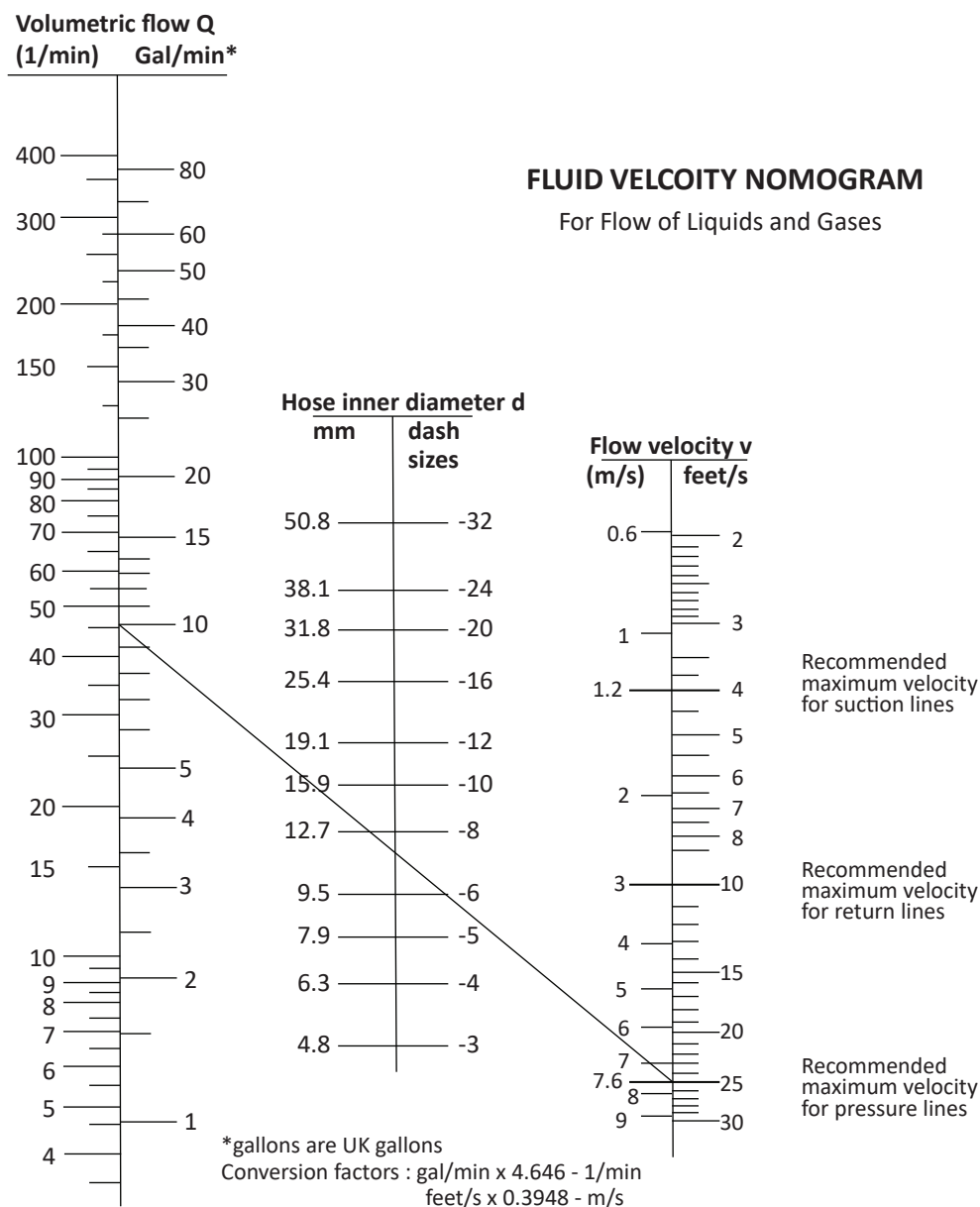
Q = gal per min

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

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

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):

$\Delta P = .001\,294 \frac{fLpv^2}{d} = .000\,00336 \frac{fLW^2}{pd^5} = .0121 \frac{fLq^2}{.d^5}$

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

$$\frac{\Delta P}{P_1} = 1 - \sqrt{1 - \frac{fLp\,1^v1^2}{12\,g\,d\,P_1}}$$

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

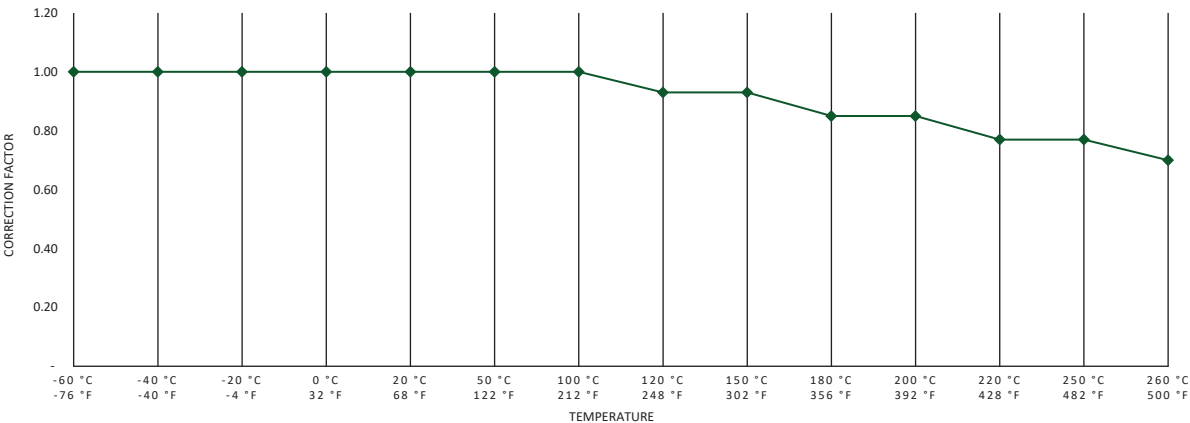
Temperature Correction Chart for PTFE hoses :

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 -76 °F	-40 °C -40 °F	-20 °C -4 °F	0 °C 32 °F	20 °C 68 °F	50 °C 122 °F	100 °C 212 °F	120 °C 248 °F	150 °C 302 °F	180 °C 356 °F	200 °C 392 °F	220 °C 428 °F	250 °C 482 °F	260 °C 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: SAE J517-100R1AT / EN 853-1SN / ISO 1436

Construction

Inner tube Black Color, 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 Agriculture, 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 SAE J517-100R1AT/EN 853-1SN	

Item Code	Dash Size	DN	ID		OD		WP		BP		BR/r		W kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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 Color, 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 35 to 40 bar. For use with petroleum, synthetic or water based fluids in Hydraulic systems. Suitable for Agriculture, Earthmoving & Material handling equipment and machineries/systems



Cover options
PH243 : MSHA
PH208 : HARDX MSHA

Item Code	Dash Size	DN	ID		OD		WP		BP		BR/r		W kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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 kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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 kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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 - R2AT / 2SN

Applicable Standard : SAE J517-100R2AT / 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 SAE J517-100R1AT/EN 853-2SN	

Item Code	Dash Size	DN	ID		OD		WP		BP		BR/r		W kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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 kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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 100R16 / ISO 11237-1

Construction

Inner tube Black Color, 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	
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
PH258-24	-24	38	1.1/2	38.7	1.89	48.0	1450	100	5800	400	9.8	250	1.760
PH258-32	-32	51	2	51.3	2.43	61.6	1305	50	5220	360	11.8	300	2.300



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 SAE 100R16/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	
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 - 100R17

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	Temperature usage option
PH293 : MSHA	PH593 : High Temperature MSHA Cover -40°C to +100°C
PH198 : HARDX MSHA	PH594 : Ultra High Temperature MSHA Cover -40°C to +150°C
PH294 : ABRAZONX MSHA	

Item Code	Dash Size	DN	ID		OD		WP		BP		BR/r		W kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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	0.93	23.5	3045	210	12180	840	3.9	100	0.736
PH293-12	-12	19	3/4	19.2	1.10	28.0	3045	210	12180	840	4.7	120	0.932
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

PH295 - R19

Applicable Standard : SAE J517 - 100R19

Construction

Core Black colour, synthetic rubber resistant to oil and water

Reinforcement Single or double steel wire braids

Cover Black colour, synthetic rubber resistant to abrasion, weather, oil & ozone.

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



Cover options
PH295 : MSHA
PH229 : HARDX MSHA
PH222 : ABRAZONX MSHA

Item Code	Dash Size	DN	ID		OD		WP		BP		BR/r		W kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
PH295-04	-04	06	1/4	6.7	0.47	12.0	4060	280	16240	1120	2.0	50	0.186
PH295-05	-05	08	5/16	8.2	0.59	14.9	4060	280	16240	1120	2.2	55	0.366
PH295-06	-06	10	3/8	9.8	0.67	17.1	4060	280	16240	1120	2.6	65	0.466
PH295-08	-08	12	1/2	13.1	0.80	20.4	4060	280	16240	1120	3.5	90	0.624
PH295-10	-10	16	5/8	16.2	0.94	24.0	4060	280	16240	1120	3.9	100	0.745
PH295-12	-12	19	3/4	19.3	1.09	27.7	4060	280	16240	1120	4.7	120	0.901



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

Intermittent : +121°C

Impulse Cycles: 200,000 cycles

*Smooth cover available only upto size 1"

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	
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

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	18.1	460	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	0.52	13.2	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	18.1	460	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	0.52	13.2	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	
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	
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 - 100R4

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 kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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 - 100R5

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 kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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 kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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 - 100R3

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 SAE 100R3

Item Code	Dash Size	DN	ID		OD		WP		BP		BR/r		W kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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 - 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 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		kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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		kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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
PH239 : Both inner and outer cover CPE rubber	

Item Code	Dash Size	DN	ID		OD		WP		BP		BR/r		W kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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



Cover options
PH215 : HARDX MSHA
PH175 : MSHA

Item Code	Dash Size	DN	ID		OD		WP		BP		BR/r		W kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
PH175-04	-04	06	1/4	6.4	0.52	13.2	10150	700	20300	1400	2.0	50	0.323
PH175-06	-06	10	3/8	9.5	0.69	17.4	10150	700	20300	1400	2.8	70	0.472
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 kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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 kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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"

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 kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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 - SUPERSERVICE HOSE

Applicable Standard : Exceeds EN 857 - 1 SC / 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 kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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	kg/m
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 100R12

Applicable Standard : SAE J517 - 100R12 / 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	kg/m
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
PH177-40	-40	63	2.1/2	63.5	2.95	75.0	3.07	78.0	2030	140	8120	560	14.20	360	5.285



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 J517 - 100R13 / 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
PH128 : HARDX MSHA

Item Code	Dash Size	DN	ID		RI OD		OD		WP		BP		BR/r		W kg/m
			inch	mm	inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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 -100R15 / 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
5/8" & 2" Not covered under SAE 100R15

Item Code	Dash Size	DN	ID		RI OD		OD		WP		BP		BR/r		W kg/m
			inch	mm	inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
PH279-06	-06	10	3/8	9.8	0.69	17.5	0.84	21.4	6000	420	24000	1680	3.50	90	0.822
PH279-08	-08	12	1/2	13.1	0.80	20.4	0.82	24.6	6000	420	24000	1680	4.50	115	0.994
PH279-10	-10	16	5/8	16.2	0.97	24.6	1.06	27.0	6000	420	24000	1680	4.70	120	1.258
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	
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

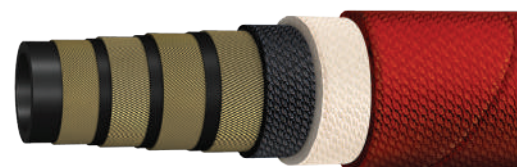
Item Code	Dash Size	DN	ID		RI OD		OD		WP		BP		BR/r		W
			inch	mm	inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
PH278-12	-12	19	3/4	19.4	1.12	28.4	1.27	32.2	6090	420	24360	1680	11.02	280	1.605
PH278-16	-16	25	1	25.9	1.40	35.5	1.52	38.7	5510	380	22040	1520	13.39	340	2.277
PH278-20	-20	31	1.1/4	32.5	1.65	41.9	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 kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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	1.73	44.00	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 kg/m
			inch	mm	inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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	14500	1000	36250	2500	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	23.4	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

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 kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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
PH442-14	-14	21	7/8	21.0	1.22	31.0	235	16	700	48	5.1	130	0.720
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 - SOFTWALL

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 kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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 J30 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, Extrac table 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 kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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 J30 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 kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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 kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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 kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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 Class-1, Type-2

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	315	21.5	725	50	2.0	50	0.094
PH536-04	-04	06	1/4	6.4	0.50	12.7	315	21.5	725	50	2.6	65	0.130
PH536-05	-05	08	5/16	8.0	0.56	14.3	315	21.5	725	50	3.0	75	0.155
PH536-06	-06	10	3/8	9.5	0.63	15.9	315	21.5	725	50	3.0	75	0.183
PH536-08	-08	12	1/2	12.7	0.78	19.8	315	21.5	725	50	3.9	100	0.264
PH536-10	-10	16	5/8	15.9	0.94	23.8	315	21.5	725	50	4.9	125	0.302
PH536-12	-12	19	3/4	19.0	1.13	28.6	315	21.5	725	50	5.9	150	0.372
PH536-16	-16	25	1	25.4	1.37	34.9	315	21.5	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	
PH542-03	-03	05	3/16	4.7	0.41	10.3	150	10	580	40	2.0	50	0.101
PH542-04	-04	06	1/4	6.4	0.50	12.7	150	10	580	40	2.6	65	0.125
PH542-05	-05	08	5/16	8.0	0.56	14.3	150	10	580	40	3.0	75	0.154
PH542-06	-06	10	3/8	9.5	0.63	15.9	150	10	580	40	3.0	75	0.176
PH542-08	-08	12	1/2	12.7	0.78	19.8	150	10	580	40	3.9	100	0.253
PH542-10	-10	16	5/8	15.9	0.94	23.8	150	10	580	40	4.9	125	0.326
PH542-12	-12	19	3/4	19.0	1.13	28.6	150	10	580	40	5.9	150	0.481
PH542-16	-16	25	1	25.4	1.37	34.9	150	10	580	40	7.9	200	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 kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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 kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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, EPDM rubber
Reinforcement	Textile reinforcement
Cover	Black colour, EPDM rubber resistant to abrasion weather & ozone.
Application	Automotive Air Brake System; Tractor - Trailer Air Brake connections



Item Code	Dash Size	DN	ID		OD		WP		BP		BR/r		W kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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.

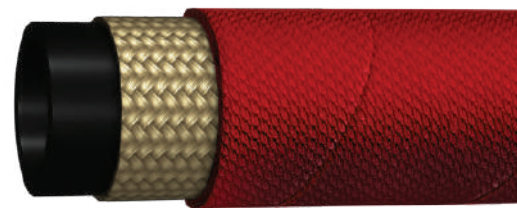


Item Code	Dash Size	DN	ID		OD		WP		BP		BR/r		W kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
PH550-10	-10	12	1/2	12.9	0.94	23.8	300	20	1235	85	140	5.5	0.615
PH550-12	-12	16	5/8	16.0	1.12	28.5	300	20	1235	85	165	6.5	0.841
PH550-16	-16	22	7/8	22.2	1.37	34.9	300	20	1235	85	185	7.3	1.167
PH550-20	-20	30	1.1/8	28.9	1.63	41.3	300	20	1235	85	240	9.4	1.180
PH550-24	-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

PH242 - FIRE SUPPRESSION HOSE



Construction

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

Reinforcement Single steel wire braid

Cover Red colour, Synthetic rubber resistant to oil, weather & flame resistance

Application This hose is intended specifically for fire suppression systems, mining & forestry

Cover options

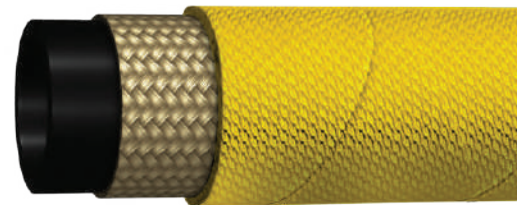
PH242 : MSHA 2G

Item Code	Dash Size	DN	ID		OD		WP		BP		BR/r		kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
PH242-04	-04	6	1/4	6.6	0.52	13.1	3265	225	13050	900	3.9	100	0.283
PH242-06	-06	10	3/8	9.8	0.67	17.1	2610	180	10440	720	4.9	125	0.400
PH242-08	-08	12	1/2	12.9	0.80	20.2	2320	160	9280	640	7.1	180	0.450
PH242-10	-10	16	5/8	16.2	0.92	23.3	1885	130	7540	520	7.9	200	0.550
PH242-12	-12	19	3/4	19.2	1.07	27.3	1525	105	6090	420	9.4	240	0.700
PH242-16	-16	25	1	25.9	1.39	35.3	1305	90	5150	355	11.8	300	1.200



Temperature Range: Continous: -40°C to +100°C Intermittent: +120°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		kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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



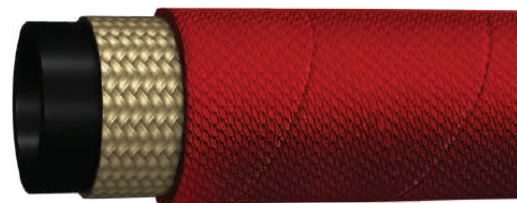
Temperature Range: Continuous: -40°C to +90°C

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 kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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



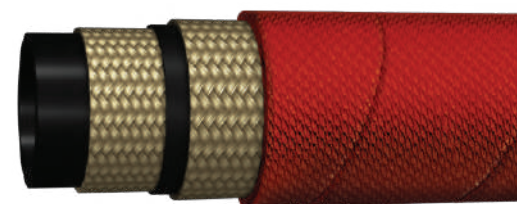
Temperature Range: Continuous: Up to +185°C Steam

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 kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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

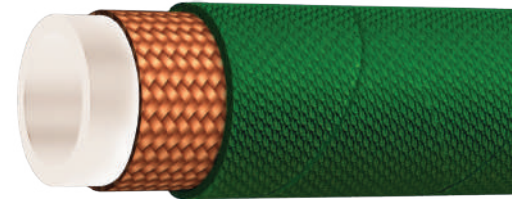
Application Hardwall hose with steel cord reinforcement for steam at a maximum working pressure of 18 bar, used in chemical industries and industrial application in general , where a particular bending radius is necessary

Item Code	Dash Size	DN	ID		OD		WP		BP		BR/r		W kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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 kg/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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

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

*Smooth cover available only upto size 1"

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

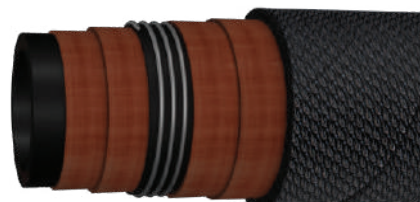
Application Light weight rubber hose design for water, natural liquid fertilizer, waste water, for submerged pump and irrigation systems

Item Code	Dash Size	ID		OD		WP		BP		kg/m
		inch	mm	inch	mm	psi	bar	psi	bar	
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		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

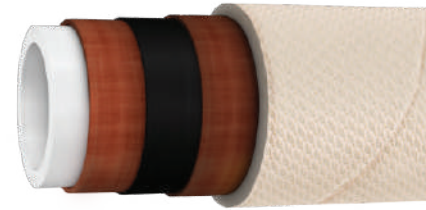
Construction

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

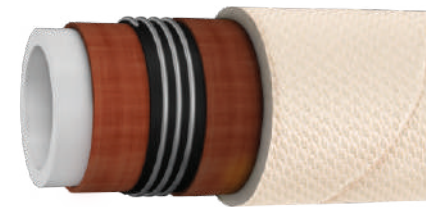
Construction

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



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	W
		inch	mm	inch	mm	psi	bar	psi	bar	bar	kg/m
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	kg/m
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	kg/m
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

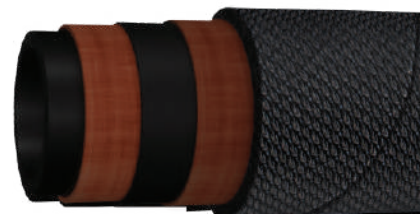
Construction

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
		inch	mm	inch	mm	psi	bar	psi	bar	kg/m
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	W
		inch	mm	inch	mm	psi	bar	psi	bar	bar	kg/m
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	bar	kg/m
PH615-32	-32	2	51.0	2.99	76.0	600	40	1740	120	0.90	3.41
PH615-48	-48	3	76.0	3.90	99.0	600	40	1740	120	0.90	5.20
PH615-64	-64	4	102.0	5.04	128.0	600	40	1740	120	0.90	6.80
PH615-96	-96	6	152.0	7.01	178.0	600	40	1740	120	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 kg/m
		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

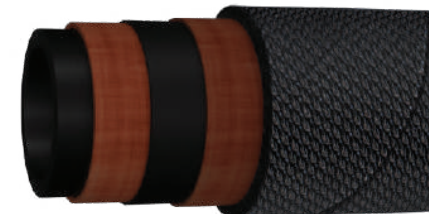
Construction

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



Item Code	Dash Size	ID		OD		WP		BP		W kg/m
		inch	mm	inch	mm	psi	bar	psi	bar	
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 kg/m
		inch	mm	inch	mm	psi	bar	psi	bar	
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

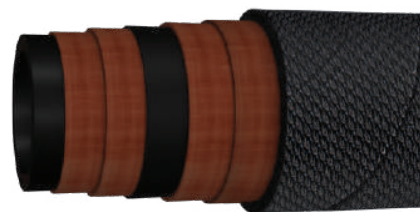


Temperature Range: Continuous: -30°C to +70°C

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	W
		inch	mm	inch	mm	psi	bar	psi	bar	bar	kg/m
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

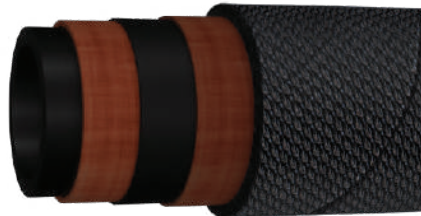


Temperature Range: Continuous: -30°C to +70°C

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

Construction

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

Item Code	Dash Size	ID		OD		WP		BP		W
		inch	mm	inch	mm	psi	bar	psi	bar	kg/m
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

PH684 - SHOT BLASTING HOSE W.P. 12 BAR

Construction

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

Reinforcement Four 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



Item Code	Dash Size	ID		OD		WP		BP		W
		inch	mm	inch	mm	psi	bar	psi	bar	
PH684-08	-08	1/2	12.7	1.18	30.0	175	12	525	36	0.75
PH684-12	-12	3/4	19.0	1.50	38.0	175	12	525	36	1.10
PH684-16	-16	1	25.0	1.89	48.0	175	12	525	36	1.60
PH684-20	-20	1.1/4	32.0	2.17	55.0	175	12	525	36	1.90
PH684-24	-24	1.1/2	38.0	2.40	61.0	175	12	525	36	2.15
PH684-32	-32	2	51.0	2.87	73.0	175	12	525	36	2.65



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

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

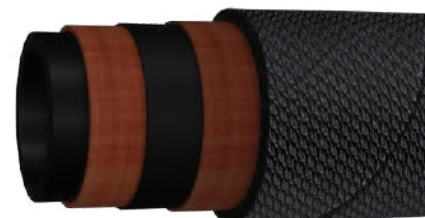
Construction

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
		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



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

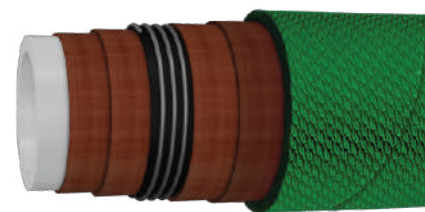


Item Code	Dash Size	ID		OD		WP		BP		W kg/m
		inch	mm	inch	mm	psi	bar	psi	bar	
PH639-32	-32	2	51.0	2.64	67.0	300	20	870	60	1.70
PH639-40	-40	2.1/2	64.0	3.11	79.0	300	20	870	60	2.10
PH639-48	-48	3	76.0	3.70	94.0	300	20	870	60	2.60
PH639-64	-64	4	102.0	4.80	122.0	300	20	870	60	4.40
PH639-80	-80	5	127.0	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.,

Item Code	Dash Size	ID		OD		WP		BP		V	W
		inch	mm	inch	mm	psi	bar	psi	bar	bar	kg/m
PH642-12	-12	3/4	19.0	1.18	30.0	250	17	750	51	0.9	0.80
PH642-16	-16	1	25.0	1.38	35.0	250	17	750	51	0.9	1.39
PH642-20	-20	1.1/4	32.0	1.73	44.0	250	17	750	51	0.9	1.52
PH642-24	-24	1.1/2	38.0	1.97	50.0	250	17	750	51	0.9	2.00
PH642-32	-32	2	51.0	2.64	67.0	250	17	750	51	0.9	2.70
PH642-40	-40	2.1/2	63.0	3.11	79.0	250	17	750	51	0.9	3.20
PH642-48	-48	3	76.0	3.70	94.0	250	17	750	51	0.9	4.50
PH642-64	-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	bar	kg/m
PH645-12	-12	3/4	19.0	1.22	31.0	250	17	750	51	0.9	0.70
PH645-16	-16	1	25.0	1.46	37.0	250	17	750	51	0.9	1.29
PH645-20	-20	1.1/4	32.0	1.73	44.0	250	17	750	51	0.9	1.49
PH645-24	-24	1.1/2	38.0	1.97	50.0	250	17	750	51	0.9	1.90
PH645-32	-32	2	51.0	2.48	63.0	250	17	750	51	0.9	2.50
PH645-40	-40	2.1/2	63.0	3.07	78.0	250	17	750	51	0.9	3.20
PH645-48	-48	3	76.0	3.70	94.0	250	17	750	51	0.9	4.30
PH645-64	-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	
PH646-08	-08	1/2	12.7	0.97	24.7	250	17	750	51	0.56
PH646-12	-12	3/4	19.0	1.22	31.0	250	17	750	51	0.68
PH646-16	-16	1	25.0	1.46	37.0	250	17	750	51	0.80
PH646-20	-20	1.1/4	32.0	1.73	44.0	250	17	750	51	0.99
PH646-24	-24	1.1/2	38.0	2.05	52.0	250	17	750	51	1.50
PH646-32	-32	2	51.0	2.64	67.0	250	17	750	51	2.04
PH646-40	-40	2.1/2	64.0	3.15	80.0	250	17	750	51	2.70
PH646-48	-48	3	76.0	3.62	92.0	250	17	750	51	3.12
PH646-64	-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	
PH647-32	-32	2	51.0	2.64	67.0	150	10	450	30	2.80
PH647-48	-48	3	76.0	3.66	93.0	150	10	450	30	4.70
PH647-64	-64	4	102.0	4.80	122.0	150	10	450	30	5.40
PH647-80	-80	5	127.0	5.79	147.0	150	10	450	30	6.20
PH647-96	-96	6	152.0	6.85	174.0	150	10	450	30	12.60
PH647-128	-128	8	203.0	9.33	237.0	150	10	450	30	19.70

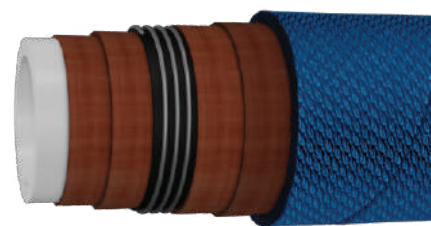


Temperature Range: Continuous: -30°C to +70°C

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



Item Code	Dash Size	ID		OD		WP		BP		V	W
		inch	mm	inch	mm	psi	bar	psi	bar	bar	kg/m
PH648-12	-12	3/4	19.0	1.22	31.0	250	17	750	51	0.9	0.70
PH648-16	-16	1	25.0	1.46	37.0	250	17	750	51	0.9	1.29
PH648-20	-20	1.1/4	32.0	1.73	44.0	250	17	750	51	0.9	1.49
PH648-24	-24	1.1/2	38.0	1.97	50.0	250	17	750	51	0.9	1.90
PH648-32	-32	2	51.0	2.48	63.0	250	17	750	51	0.9	2.50
PH648-40	-40	2.1/2	63.0	3.07	78.0	250	17	750	51	0.9	3.20
PH648-48	-48	3	76.0	3.62	92.0	250	17	750	51	0.9	4.30
PH648-64	-64	4	102.0	4.65	118.0	250	17	750	51	0.9	4.80

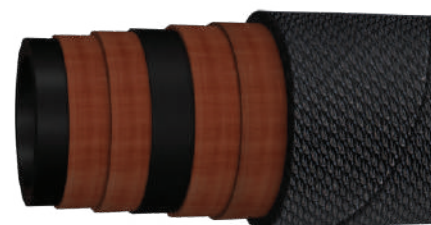


Temperature Range: Continuous: -30°C to +120°C

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
PH649-20	-20	1.1/4	32.0	1.93	49.0	1235	85	2465	170	1.60
PH649-24	-24	1.1/2	38.0	2.20	56.0	1235	85	2465	170	1.80
PH649-32	-32	2	51.0	2.80	71.0	1235	85	2465	170	3.00
PH649-40	-40	2.1/2	64.0	3.43	87.0	1235	85	2465	170	3.77
PH649-48	-48	3	76.0	4.02	102.0	1235	85	2465	170	4.90
PH649-56	-56	3.1/2	88.0	4.53	115.0	1235	85	2465	170	5.66
PH649-64	-64	4	102.0	5.20	132.0	1235	85	2465	170	7.36
PH649-80	-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

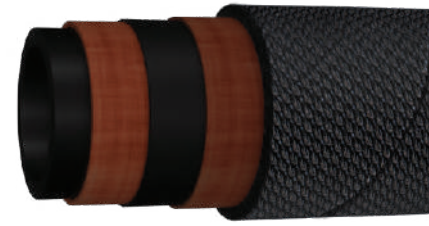
Construction

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 kg/m
		inch	mm	inch	mm	psi	bar	psi	bar	
PH 651-08	-08	1/2	12.7	0.83	21.0	75	5	220	15	0.30
PH 651-12	-12	3/4	19.0	1.10	28.0	75	5	220	15	0.45
PH 651-16	-16	1	25.0	1.34	34.0	75	5	220	15	0.50
PH 651-20	-20	1.1/4	32.0	1.65	42.0	75	5	220	15	0.60
PH 651-24	-24	1.1/2	38.0	1.89	48.0	75	5	220	15	0.80
PH 651-32	-32	2	51.0	2.44	62.0	75	5	220	15	1.20
PH 651-40	-40	2.1/2	64.0	2.99	76.0	75	5	220	15	1.40
PH 651-48	-48	3	76.0	3.50	89.0	75	5	220	15	1.65
PH 651-64	-64	4	102.0	4.57	116.0	75	5	220	15	2.60
PH 651-80	-80	5	127.0	5.59	142.0	75	5	220	15	4.60
PH 651-96	-96	6	152.0	6.57	167.0	75	5	220	15	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 Plies 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 kg/m
		inch	mm	inch	mm	psi	bar	psi	bar	
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



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 Plies 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

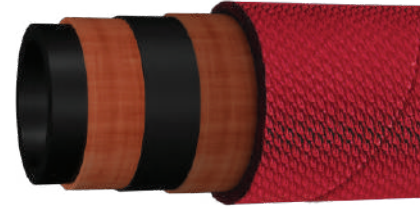
Construction

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 W
		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 - MULTI PURPOSE HOSE

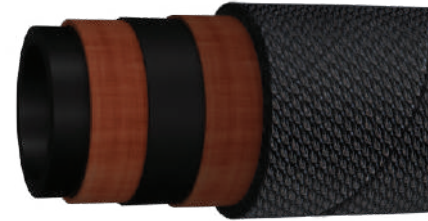
Construction

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 W
		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

PH690 - AVIATION FUEL HOSE

Applicable Standard : EI 1529 Type - C / ISO 1825 Type - C

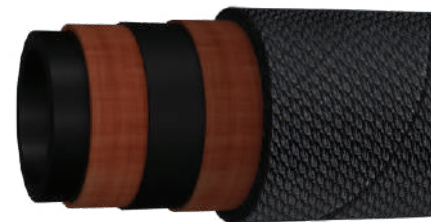
Construction

Inner tube Black colour, Synthetic rubber resistant to oil

Reinforcement Plies of synthetic textile cords

Cover Black colour, synthetic conductive cover resistant to oil, ozone and abrasion

Application Aircraft fuelling with jet fuels. Portability, ease of routing and ease of installation area additional virtues.

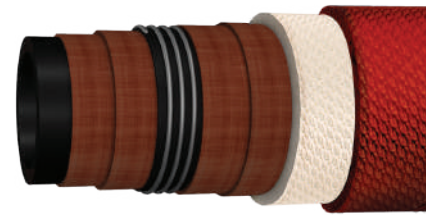


Item Code	Dash Size	DN	ID		OD		WP		BP		BR/r		W W
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
PH690-12	-12	19	3/4	19.0	1.38	35.0	300	20	1200	80	3.5	90	0.800
PH690-16	-16	25	1	25.4	1.63	41.5	300	20	1200	80	4.5	115	1.000
PH690-20	-20	32	1.1/4	32.0	1.89	48.0	300	20	1200	80	5.5	140	1.300
PH690-24	-24	38	1.1/2	38.0	2.19	55.5	300	20	1200	80	7.1	180	1.830
PH690-32	-32	50	2	51.0	2.66	67.5	300	20	1200	80	8.5	215	2.580
PH690-40	-40	63	2.1/2	63.0	3.23	82.0	300	20	1200	80	9.1	230	3.100



Temperature Range: Continuous: -30°C to +65°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

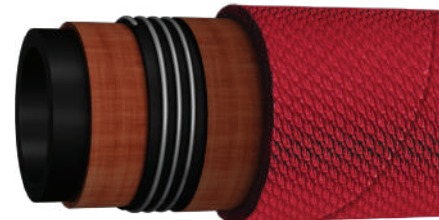
Application Fire Shield hose is used as flame preventer in the Hydraulic Control System with Operating Pressure 305 PSI. It meets fire test as per API 16D spec for 5 minutes at 700°C (tested for more than 10 minutes at 800° C), operated under emergencies

Item Code	Dash Size	ID		OD		WP		BP		BR/r		W
		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

PH695 - STEAM HOSE



Construction

Inner tube Black colour, EPDM rubber resistant to high temperature steam

Reinforcement High tensile synthetic textile cords with steel wire helix

Cover Red Colour, EPDM rubber resistant to heat and weather

Application Hardwell hose for conveying steam at maximum working pressure of 18 bar, used in chemical industries and industrial application in genral, where tighter bending radius is necessary

Item Code	Dash Size	DN	ID		OD		WP		BP		V		BR/r		W
			inch	mm	inch	mm	psi	bar	psi	bar	mmhg	bar	inch	mm	
PH695-32	-32	51	2	50.8	2.76	70.0	260	18	2610	180	675	0.9	14.2	360	2.750
PH695-40	-40	63	2.1/2	63.0	3.39	86.0	260	18	2610	180	675	0.9	17.5	445	3.750
PH695-48	-48	76	3	76.0	3.86	98.0	260	18	2610	180	675	0.9	21.1	535	4.480
PH695-64	-64	102	4	102.0	4.88	124.0	260	18	2610	180	675	0.9	28.1	715	6.122



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

PH148 - MEDIUM PRESSURE HYDRAULIC HOSE - R7

Applicable Standard: SAE 100R7 / 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 g/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
PH148-02	-02	03	1/8	3.2	0.320	8.1	3,000	210	12,000	840	1.0	25	57
PH148-03	-03	05	3/16	4.8	0.405	10.3	3,000	210	12,000	840	1.0	25	80
PH148-04	-04	06	1/4	6.4	0.490	12.4	2,750	190	11,000	760	1.3	32	114
PH148-05	-05	08	5/16	8.0	0.560	14.2	2,500	175	10,000	700	1.8	45	142
PH148-06	-06	10	3/8	9.5	0.620	15.7	2,250	155	9,000	620	2.2	55	164
PH148-08	-08	12	1/2	12.7	0.760	19.3	2,050	140	8,200	560	3.0	77	229
PH148-10	-10	16	5/8	16.0	0.910	23.1	1,500	105	6,000	420	4.3	110	295
PH148-12	-12	20	3/4	19.0	1.040	26.4	1,300	90	5,200	360	5.5	140	356
PH148-16	-16	25	1	25.4	1.310	33.3	1,000	70	4,000	280	8.0	200	504
PH148-20	-20	32	1.1/4	31.8	1.654	42.0	1,000	70	4,000	280	12.0	300	737

**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 100R8 / 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 g/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
PH149-02	-02	03	1/8	3.2	0.320	8.1	6,000	420	24,000	1,680	1.0	25	57
PH149-03	-03	05	3/16	4.8	0.405	10.3	5,000	350	20,000	1,400	1.0	25	87
PH149-04	-04	06	1/4	6.4	0.490	12.4	5,000	350	20,000	1,400	1.3	32	118
PH149-05	-05	08	5/16	8.0	0.560	14.2	4,350	300	17,400	1,200	1.8	45	147
PH149-06	-06	10	3/8	9.5	0.620	15.7	4,000	280	16,000	1,120	2.2	55	170
PH149-08	-08	12	1/2	12.7	0.760	19.3	3,500	245	14,000	980	3.0	77	219
PH149-10	-10	16	5/8	16.0	0.910	23.1	2,900	200	11,600	800	4.3	110	295
PH149-12	-12	20	3/4	19.0	1.040	26.4	2,300	165	9,200	660	5.5	140	372
PH149-16	-16	25	1	25.4	1.310	33.3	2,000	140	8,000	560	8.0	200	511
PH149-20	-20	32	1.1/4	31.8	1.654	42.0	1,500	100	6,000	400	14.0	350	750

**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 100R18 / 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	
PH194-03	-03	05	3/16	4.8	0.405	10.3	3,000	210	12,000	840	1.2	30	80
PH194-04	-04	06	1/4	6.4	0.490	12.4	3,000	210	12,000	840	1.8	45	120
PH194-05	-05	08	5/16	8.0	0.560	14.2	3,000	210	12,000	840	2.0	50	153
PH194-06	-06	10	3/8	9.5	0.650	16.6	3,000	210	12,000	840	3.0	75	188
PH194-08	-08	12	1/2	12.7	0.890	22.5	3,000	210	12,000	840	3.5	90	298
PH194-10	-10	16	5/8	16.0	1.060	25.4	3,000	210	12,000	840	4.7	120	370
PH194-12	-12	20	3/4	19.0	1.170	29.7	3,000	210	12,000	840	6.0	150	435
PH194-16	-16	25	1	25.4	1.560	39.6	3,000	210	12,000	840	10.0	250	600



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	
PH348-02	-02	03	1/8	3.2	0.280	7.1	5,000	350	20,000	1,400	1.0	25	84
PH348-03	-03	05	3/16	4.8	0.380	9.7	5,000	350	20,000	1,400	1.2	30	141
PH348-04	-04	06	1/4	6.4	0.460	11.7	4,350	300	17,400	1,200	1.6	40	182
PH348-05	-05	08	5/16	8.0	0.535	13.6	3,500	240	14,000	960	2.0	50	222
PH348-06	-06	10	3/8	9.5	0.600	15.2	3,260	225	13,040	900	2.4	60	263
PH348-08	-08	12	1/2	12.7	0.725	18.4	2,750	190	11,000	760	3.0	75	350
PH348-10	-10	16	5/8	16.0	0.875	22.2	2,175	150	8,700	600	4.3	110	461
PH348-12	-12	20	3/4	19.0	1.020	25.9	1,890	130	7,560	520	6.0	150	550
PH348-16	-16	25	1	25.4	1.275	32.4	1,450	100	5,800	400	9.1	230	692



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	
PH349-03	-03	05	3/16	4.8	0.460	11.7	6,500	450	26,000	1,800	3.1	80	267
PH349-04	-04	06	1/4	6.4	0.540	13.7	6,250	430	25,000	1,720	4.0	100	318
PH349-05	-05	08	5/16	8.0	0.600	15.2	5,500	380	22,000	1,520	4.3	110	391
PH349-06	-06	10	3/8	9.5	0.690	17.5	4,800	330	19,200	1,320	5.0	127	473
PH349-08	-08	12	1/2	12.7	0.830	21.1	3,900	270	15,600	1,080	7.0	178	613
PH349-10	-10	16	5/8	16.0	0.975	24.8	3,625	250	12,000	840	8.0	203	818
PH349-12	-12	20	3/4	19.0	1.120	28.4	3,120	215	10,000	700	10.0	250	934
PH349-16	-16	25	1	25.4	1.360	34.5	2,400	165	8,800	600	12.0	305	1114



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

Temp. not to exceed +70°C for Air and Water based fluids

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

Applicable Standard: SAE 100R8 / 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	
PH353-03	-03	05	3/16	4.8	0.490	12.4	5,000	350	20,000	1,400	1.6	40	136
PH353-04	-04	06	1/4	6.4	0.635	16.1	5,000	350	20,000	1,400	1.8	45	220
PH353-05	-05	08	5/16	8.0	0.660	16.8	4,250	290	17,000	1,160	2.2	55	232
PH353-06	-06	10	3/8	9.5	0.730	18.5	4,000	280	16,000	1,120	2.6	65	260
PH353-08	-08	12	1/2	12.7	0.890	22.6	3,500	245	14,000	980	3.0	77	356
PH353-10	-10	16	5/8	16.0	1.020	25.9	2,750	190	11,000	760	4.0	100	405
PH353-12	-12	20	3/4	19.0	1.140	29.0	2,250	155	9,000	620	5.5	140	476
PH353-16	-16	25	1	25.4	1.420	36.1	2,000	140	8,000	560	8.0	200	637



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 g/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
PH358-03	-03	05	3/16	4.8	0.394	10	3,335	230	11,600	800	1.8	45	88
PH358-04	-04	06	1/4	6.4	0.454	11.5	3,335	230	11,600	800	2.0	50	92
PH358-05	-05	08	5/16	8.0	0.560	14.2	3,335	230	11,600	800	2.4	60	135
PH358-06	-06	10	3/8	9.5	0.630	16.0	3,335	230	11,600	800	3.1	80	150
PH358-08	-08	12	1/2	12.7	0.855	21.7	2,900	200	11,600	800	3.9	100	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 g/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
PH761-04	-04	06	1/4	6.4	0.500	12.7	3,260	225	13,100	900	2.0	50	197
PH761-06	-06	10	3/8	9.5	0.660	16.8	2,610	180	10,500	720	2.5	64	281
PH761-08	-08	12	1/2	12.7	0.770	19.6	2,320	160	9,300	640	3.5	90	367
PH761-12	-12	20	3/4	19.0	1.050	26.7	1,520	105	6,100	420	5.0	125	579
PH761-16	-16	25	1	25.4	1.250	31.8	1,270	88	5,100	352	10.0	250	720



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 g/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
PH762-04	-04	06	1/4	6.4	0.570	14.5	5,800	400	23,200	1,600	2.0	50	366
PH762-06	-06	10	3/8	9.5	0.680	17.3	4,780	330	19,200	1,320	2.5	64	527
PH762-08	-08	12	1/2	12.7	0.820	20.8	4,000	275	16,000	1,104	3.5	90	660
PH762-10	-10	16	5/8	16.0	0.970	24.6	3,620	250	14,500	1,000	4.0	100	876
PH762-12	-12	20	3/4	19.0	1.100	27.9	3,110	215	12,440	860	4.8	120	1006
PH762-16	-16	25	1	25.4	1.450	36.8	2,390	165	9,600	660	6.0	150	1192

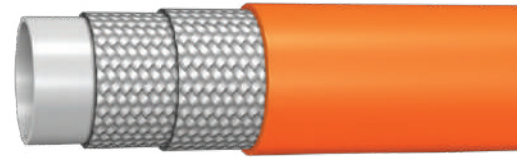


Temperature Range: Continuous: -40°C to +100°C

Temp. not to exceed +70°C for Air and Water based fluids



PH301 - SEWER JET - 2500 PSI

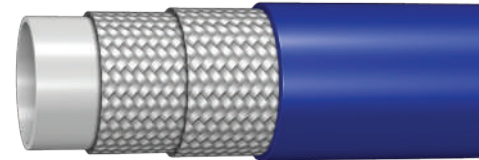
Construction**Inner tube** Thermoplastic Elastomer**Reinforcement** One or more Braids of Synthetic Fiber**Cover** Polyurethane, Orange Colour**Application** Standard Sewer cleaning vehicles and cleaning equipments. Special construction for optimum cut and wear resistance with bonded tube and cover. 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
PH301-04	-04	06	1/4	6.4	0.505	12.8	2,500	175	6,250	438	1.6	40	118
PH301-06	-06	10	3/8	9.5	0.640	16.3	2,500	175	6,250	438	2.4	60	167
PH301-08	-08	12	1/2	12.7	0.810	20.6	2,500	175	6,250	438	4.0	100	248
PH301-10	-10	16	5/8	16.0	1.030	26.2	2,500	175	6,250	438	4.3	110	417
PH301-12	-12	20	3/4	19.0	1.150	29.2	2,500	175	6,250	438	5.0	125	496
PH301-16	-16	25	1	25.4	1.450	36.8	2,500	175	6,250	438	6.3	160	714
PH301-20	-20	32	1.1/4	31.8	1.800	45.7	2,500	175	6,250	438	10.0	250	1106

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

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
PH302-03	-03	05	3/16	4.8	0.413	10.5	3,000	210	7,500	525	1.4	35	83
PH302-04	-04	06	1/4	6.4	0.505	12.8	3,000	210	7,500	525	1.6	40	117
PH302-06	-06	10	3/8	9.5	0.640	16.3	3,000	210	7,500	525	3.0	75	170
PH302-08	-08	12	1/2	12.7	0.880	22.4	3,000	210	7,500	525	4.0	100	318
PH302-10	-10	16	5/8	16.0	1.030	26.2	3,000	210	7,500	525	4.3	110	430
PH302-12	-12	20	3/4	19.0	1.150	29.2	3,000	210	7,500	525	4.9	125	496
PH302-16	-16	25	1	25.4	1.470	37.3	3,000	210	7,500	525	6.3	160	759
PH302-20	-20	32	1.1/4	31.8	1.830	46.5	3,000	210	7,500	525	9.8	250	1159

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

PH303 - SEWER JET - 3600 PSI

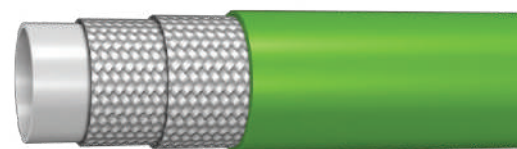
Construction

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	
PH303-03	-03	05	3/16	4.8	0.413	10.5	4,000	280	12,000	840	1.6	40	94
PH303-04	-04	06	1/4	6.4	0.510	13.0	4,000	280	12,000	840	1.6	40	124
PH303-06	-06	10	3/8	9.5	0.690	17.5	4,000	280	12,000	840	3.0	75	217
PH303-08	-08	12	1/2	12.7	0.880	22.4	4,000	280	10,000	690	4.0	100	316
PH303-12	-12	20	3/4	19.0	1.180	30.0	3,600	250	9,000	625	5.0	125	521
PH303-16	-16	25	1	25.4	1.500	38.1	3,600	250	9,000	625	6.3	160	811



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

PH304 - SEWER JET - 4000 PSI

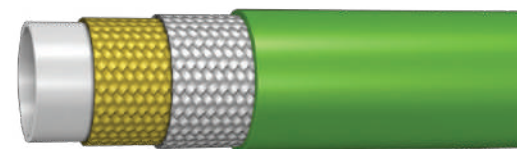
Construction

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



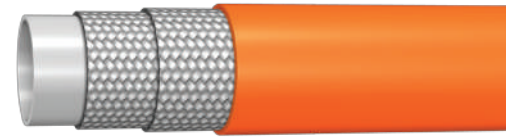
Note: Special colours available on request

Item Code	Dash Size	DN	ID		OD		WP		BP		BR/r		W
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
PH304-04	-04	06	1/4	6.4	0.510	13.0	5,000	345	20,000	1,380	1.6	40	129
PH304-06	-06	10	3/8	9.5	0.640	16.2	4,000	280	16,240	1,120	2.4	60	158
PH304-08	-08	12	1/2	12.7	0.805	20.4	4,000	280	16,240	1,120	4.0	100	256
PH304-10	-10	16	5/8	16.0	0.970	24.6	4,000	280	16,240	1,120	4.5	115	356
PH304-12	-12	20	3/4	19.0	1.150	29.2	4,000	280	12,000	840	5.0	125	514
PH304-16	-16	25	1	25.4	1.450	36.8	4,000	280	10,000	690	6.3	160	734
PH304-20	-20	32	1.1/4	31.8	1.800	45.7	3,600	250	9,000	625	10.0	250	1136



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

PH305 - SEWER JET - 2800 PSI

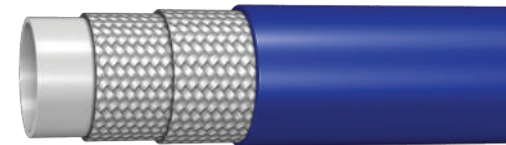
**Construction****Inner tube** Special Thermoplastic Elastomer**Reinforcement** One or two braids of synthetic fiber and one special braid of synthetic fiber armoring**Cover** Polyurethane, Orange Colour.**Application** Ideal for those tough jobs with tight bends. Abrasion and cut resistant cover. Bonded 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
PH305-12	-12	20	3/4	19.0	1.160	29.5	2,800	190	7,000	475	4.7	120	440
PH305-16	-16	25	1	25.4	1.460	37.1	2,800	190	7,000	475	5.9	150	650
PH305-20	-20	32	1.1/4	31.8	1.840	46.7	2,800	190	7,000	475	9.8	250	985

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

PH306 - SEWER JET - 3000 PSI

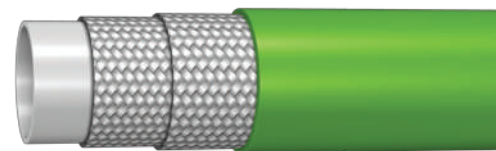
**Construction****Inner tube** Special Thermoplastic Elastomer**Reinforcement** One or more braids of synthetic fiber and one special braid of synthetic fiber armoring**Cover** Polyurethane, Blue Colour**Application** Ideal for those tough jobs with tight bends. Abrasion and cut resistant cover. Bonded 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	440
PH306-16	-16	25	1	25.4	1.475	37.5	3,000	210	7,500	525	6.3	160	675
PH306-20	-20	32	1.1/4	31.8	1.880	47.8	3,000	210	7,500	525	10.2	260	730

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

PH307 - SEWER JET - 3600 PSI



Construction

Inner tube Special Thermoplastic Elastomer

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

Cover Polyurethane, Green Colour

Application Three braids of reinforcement for the extra pressure you need. 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

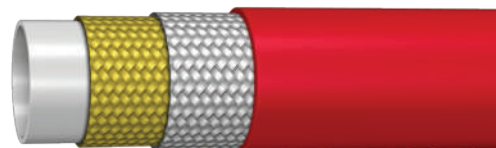
Item Code	Dash Size	DN	ID		OD		WP		BP		BR/r		W g/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
PH307-12	-12	20	3/4	19.0	1.180	30.0	3,600	250	9,000	625	4.9	125	985
PH307-16	-16	25	1	25.4	1.500	38.1	3,600	250	9,000	625	7.3	185	1050



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

4

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 g/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
PH308-08	-08	12	1/2	12.7	0.810	20.6	4,000	275	16,000	1,100	3.1	80	260
PH308-12	-12	20	3/4	19.0	1.150	29.2	3,600	250	9,000	625	4.5	115	435
PH308-16	-16	25	1	25.4	1.440	36.6	3,600	250	9,000	625	5.3	135	700
PH308-20	-20	32	1.1/4	31.8	1.800	45.7	3,600	250	9,000	625	8.3	210	975



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

PH309 - SEWER JET - 3000 PSI

**Construction****Inner tube** Special Polyurethane**Reinforcement** One or more braids of synthetic fiber and one special braid of synthetic fiber armoring**Cover** Polyurethane, Green Colour**Application** Used for sewer cleaning, 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 g/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
PH309-08	-08	12	1/2	12.7	0.890	22.6	3,000	210	7600	525	3.3	85	290
PH309-12	-12	20	3/4	19.0	1.190	30.2	3,000	210	7600	525	4.5	115	490
PH309-16	-16	25	1	25.4	1.475	37.5	3,000	210	7600	525	5.9	150	735
PH309-20	-20	32	1.1/4	31.8	1.830	46.5	3,000	210	6800	475	9.3	235	1160

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

THERMOPLASTIC - INDUSTRIAL- PAINT SPRAY HOSE

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 g/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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

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

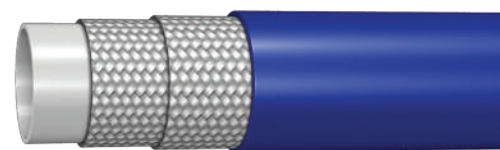
Construction**Inner tube** Polyamide**Reinforcement** Double braids of steel wire**Cover** Polyurethane, Blue Colour, pin pricking (Optional)**Application** High pressure airless paint spray systems for 150 to 450 bar. Suitable for applications requiring chemical resistance to solvents and aggressive 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 g/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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

PH344 / PH345 - 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 pumpsNote: 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 g/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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

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	
PH346-03	-03	05	3/16	4.8	0.413	10.5	5,000	350	20,000	1,400	2.0	50	95
PH346-04	-04	06	1/4	6.4	0.490	12.4	5,000	350	20,000	1,400	3.0	75	125
PH346-06	-06	10	3/8	9.5	0.630	16.0	4,350	300	17,400	1,200	4.0	100	194
PH346-08	-08	12	1/2	12.7	0.760	19.3	3,500	245	14,000	980	4.7	120	250



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

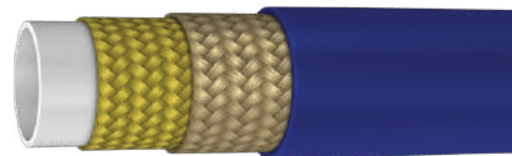
Construction

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	
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

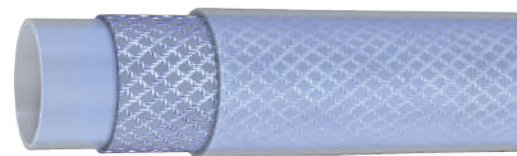
Construction

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 g/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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

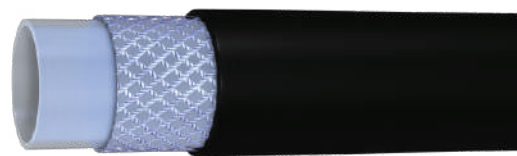
Construction

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

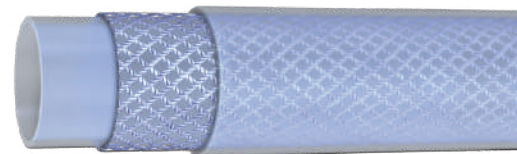


Item Code	Dash Size	DN	ID		OD		WP		BP		BR/r		W g/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
PH727 / PH728-04	-04	06	1/4	6.4	0.472	12.0	290	20	1,170	80	1.0	25	113
PH727 / PH728-05	-05	08	5/16	8.0	0.550	14.0	250	17	1,015	70	1.2	30	140
PH727 / PH728-06	-06	10	3/8	9.5	0.605	15.4	220	15	880	60	1.4	35	156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

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 g/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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

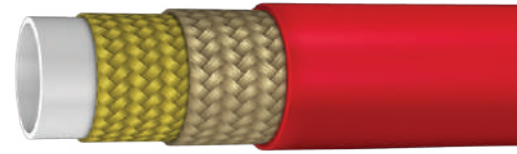
Construction**Inner tube** Thermoplastic Elastomer**Reinforcement** Double braids of steel wire**Cover** Polyurethane, Red orange colour**Application** Very High-Pressure hydraulic lines 300 to 700 bar compact, high pressure, light weight, high abrasion resistance and low change in length for use with 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 g/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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 g/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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 g/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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

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 Svrze	DN	ID		OD		WP		BP		BR/r		W g/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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

THERMOPLASTIC - INDUSTRIAL - AIR BREATHING HOSE

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



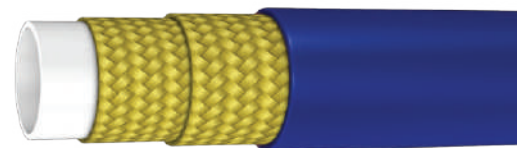
Note: Special colours available on request

Item Code	Dash Size	DN	ID		OD		WP		BP		BR/r		W g/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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

THERMOPLASTIC - INDUSTRIAL - LUBRICATION

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

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
PH734-05	-05	08	5/16	8.0	0.510	13.0	1,523	105	6,090	420	1.6	40	112
PH734-06	-06	10	3/8	9.5	0.551	14.0	1,523	105	6,090	420	2.0	50	160
PH734-08	-08	12	1/2	12.7	0.690	17.5	1,523	105	6,090	420	3.0	75	200



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

THERMOPLASTIC - INDUSTRIAL - CNG

PH324 - ELECTRICALLY CONDUCTIVE COMPRESSED NATURAL GAS HOSE

Applicable Standard: Conforms to NFPA 52

Construction

Inner tube Nylon

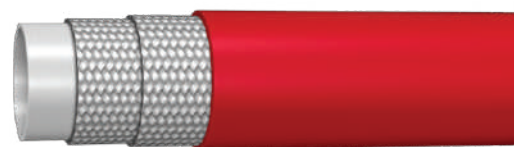
Reinforcement Two or more Braids of Synthetic fiber with electrically conductive layer

Cover Polyurethane, Red Colour, Pin pricked

Application Refueling hose specially designed for conveying compressed natural gas. Dissipates static build-up

Vaccum 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

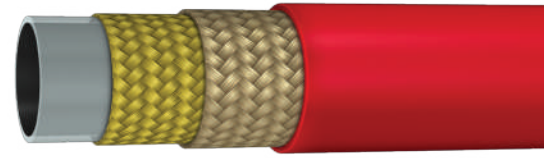
Cover Abrasion, Ozone resistant and Pin-pricked Polyurethane - Red color

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 g/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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

THERMOPLASTIC - INDUSTRIAL - REFRIGERATION

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 g/m
	inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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

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 g/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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

THERMOPLASTIC - INDUSTRIAL - MICRO BORE

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

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

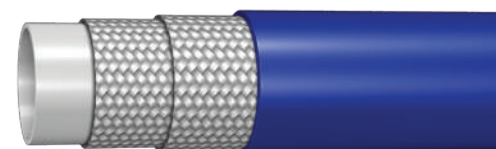
Item Code	Dash Size	DN	ID		OD		WP		BP		BR/r		W g/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
PH392-03	-03	05	3/16	4.8	0.398	10.1	1,740	120	6,960	480	1.0	25	88
PH392-04	-04	06	1/4	6.4	0.453	11.5	1,740	120	6,960	480	1.2	30	92
PH392-05	-05	08	5/16	8.0	0.516	13.1	1,740	120	6,960	480	1.6	40	110
PH392-06	-06	10	3/8	9.5	0.583	14.8	1,740	120	6,960	480	2.0	50	132
PH392-08	-08	12	1/2	12.7	0.709	18.0	1,740	120	6,960	480	2.4	60	185



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

THERMOPLASTIC - INDUSTRIAL- MOISTURE BLOK HOSE

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 g/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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

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	
PH771-02	-02	03	1/8	3.45	0.291	7.4	6,091	420	24,364	1,680	1.0	25	43



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

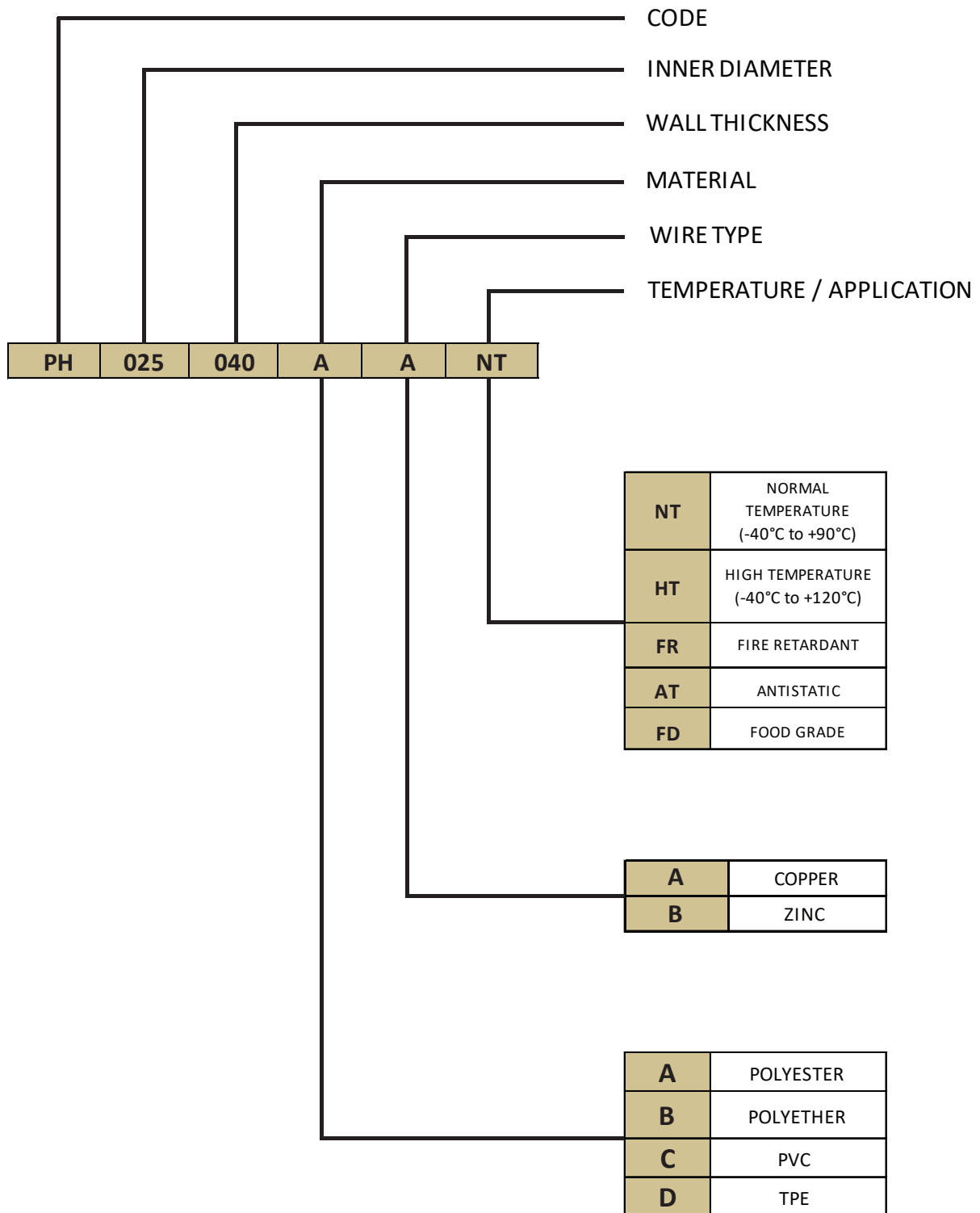


Item Code	Dash Size	DN	ID		OD		WP		BP		BR/r		W
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
PH772-04	-04	06	1/4	6.4	0.441	11.2	2,900	200	11,600	800	2.0	50	153

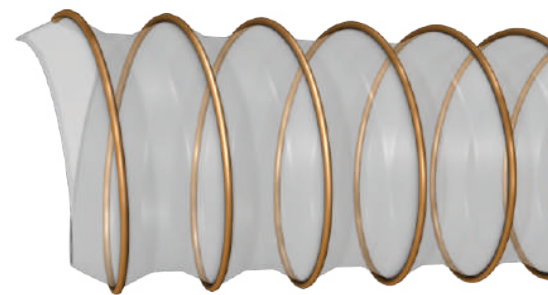


Temperature Range: Continuous: -40°C to +100°C

HOSE NOMENCLATURE



POLYURETHANE DUCTING - STANDARD

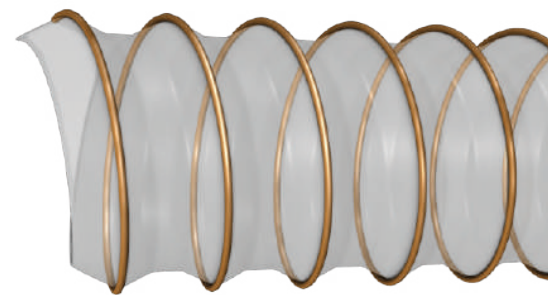
**Construction****Wall** Polyester Polyurethane**Spiral** Spring Steel Wire**Properties** Extremely flexible, Light in weight, Microbe - resistance, Good chemical resistance, Good UV and ozone resistance, Anti static if connected with helical wire**Application** Suction & transport of abrasive solids, 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

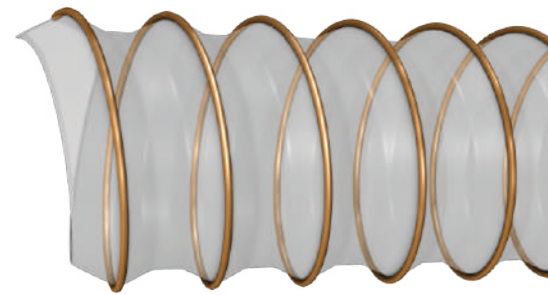
**Construction****Wall** Polyester Polyurethane**Spiral** Spring Steel Wire**Properties** Extremely flexible, Light in Weight, High abrasion resistant, Microbe - resistance, Good chemical resistance, Good UV and ozone resistance, Oil / petroleum proof, Increased vacuum and pressure resistance, Anti static 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

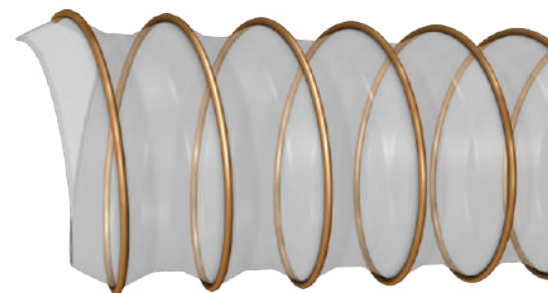
**Construction****Wall** Polyester Polyurethane**Spiral** Spring Steel Wire**Properties** Extremely flexible, Light in Weight, High abrasion resistant, Microbe - resistance, Good chemical resistance, Good UV and ozone resistance, Oil / petroleum proof, Increased vacuum and pressure resistance, Anti static 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

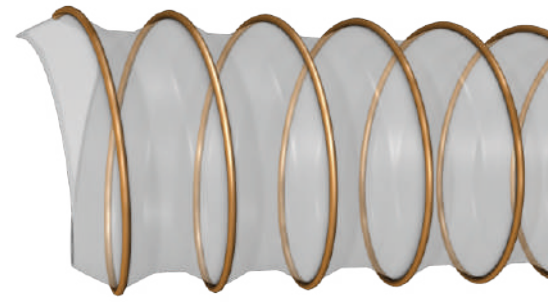
**Construction****Wall** Polyester Polyurethane**Spiral** Spring Steel Wire**Properties** Extremely flexible, Light in Weight, High abrasion resistant, Microbe - resistance, Good chemical resistance, Good UV and ozone resistance, Oil / petroleum proof, Increased vacuum and pressure resistance, Anti static 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

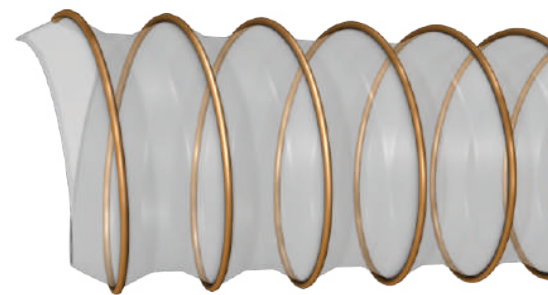
**Construction****Wall** Polyester Polyurethane**Spiral** Spring Steel Wire**Properties** Extremely flexible, Light in Weight, Microbe - resistance, Good chemical resistance, Good UV and ozone resistance**Application** Suction & transport of abrasive solids, liquids, fine grained particles, such as dust 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

10 TPE TUBE

11 PA 11 TUBE

12 PA 12 TUBE

13 POLYURETHANE TUBE

14 SPATTER HOSE

18 PTFE PLAIN TUBE

19 PTFE CONVO TUBE

20 PTFE CONDUCTIVE PLAIN TUBE

21 PTFE CONDUCTIVE CONVO TUBE

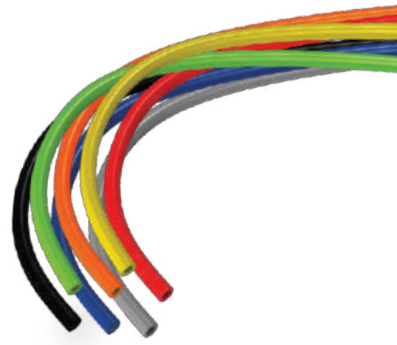
POLYAMIDE TUBING

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 mm	OD mm	WT mm	BP (Kg/cm ²)	BR/r mm	W 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 mm	OD mm	WT mm	BP (Kg/cm ²)	BR/r mm	W g/m
06-003000015QNT	1.50	3.00	0.75	270	20	7
06-004000020QNT	2.00	4.00	1.00	270	20	12
06-004000025QNT	2.50	4.00	0.75	185	20	10
06-004000030QNT	3.00	4.00	0.50	115	20	7
06-004700027QNT	2.70	4.70	1.00	215	25	14
06-005000030QNT	3.00	5.00	1.00	200	35	16
06-005000040QNT	4.00	5.00	0.50	50	40	9
06-006000030QNT	3.00	6.00	1.50	270	40	26
06-006000040QNT	4.00	6.00	1.00	160	40	20
06-006000050QNT	5.00	6.00	0.50	75	40	11
06-008000060QNT	6.00	8.00	1.00	115	50	27
06-008000050QNT	5.00	8.00	1.50	185	60	38
06-009500075QNT	7.50	9.50	1.00	95	60	33
06-009500060QNT	6.00	9.50	1.75	180	70	53
06-010000080QNT	8.00	10.00	1.00	90	60	35
06-012000100QNT	10.00	12.00	1.00	70	80	43
06-012500100QNT	10.00	12.50	1.25	75	85	55
06-015000120QNT	12.00	15.00	1.50	90	100	79
06-016000140QNT	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											
	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: All of our tubing can be supplied in colors with enhancing fillers and also with color strips we can provide the tubes. 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

Property		Specification	Unit	Value
General	Continuous service temperature	Maximum	° C	260
			° F	500
	Chemical resistance		-	Excellent
	Specific gravity	D 792	-	2.15
Electrical	Dielectric constant	D 150 at 10 ³ Hz	-	2.1
		D 150 at 10 ⁶ Hz	-	2.1
	Dielectric dissipation factor	D 150 at 10 ³ Hz	-	0.0002
		D 150 at 10 ⁶ Hz	-	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	%	< 0.01
	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	327
			° F	620
	Thermal conductivity	C-177	BTU / hr / ft ² /°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

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

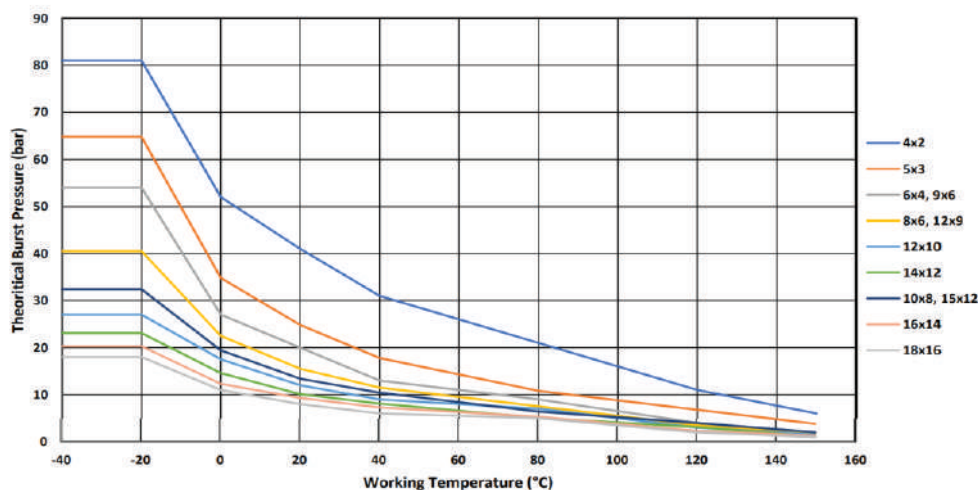


Temperature Range : Continuous: -40°C to +205°C

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

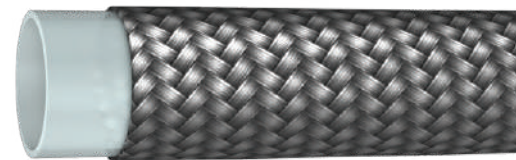
Applicable Standard: SAE J517 - 100R14

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

PH311 - (ELECTRICAL CONDUCTIVE) - R14

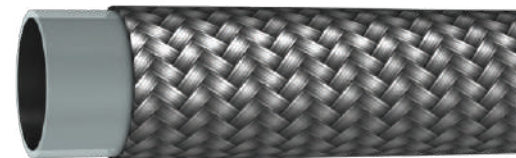
Applicable Standard: SAE J517 - 100R14

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	0.765	19.43	1,270	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	1.293	32.85	630	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

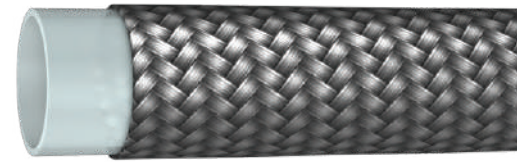
Construction

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 g/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
PH313-4	-4	1.00	3/16	4.8	0.320	8.1	3,000	210	12,000	840	2.0	51	95
PH313-5	-5	1.00	1/4	6.4	0.390	9.9	2,610	180	10,440	720	3.0	75	127
PH313-6	-6	1.00	5/16	8.0	0.465	11.8	2,538	175	10,150	700	4.0	102	155
PH313-7	-7	1.00	3/8	9.5	0.510	13.0	2,400	165	9,600	660	4.9	125	177
PH313-10	-10	1.00	1/2	12.7	0.650	16.5	1,750	120	7,000	480	6.1	155	245
PH313-12	-12	1.10	5/8	16.0	0.790	20.1	1,270	88	5,080	352	6.5	165	332
PH313-14	-14	1.10	3/4	19.0	0.925	23.5	1,000	70	4,000	280	8.5	215	450
PH313-16	-16	1.20	7/8	22.0	1.110	28.2	1,250	86	5,000	345	7.4	187	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



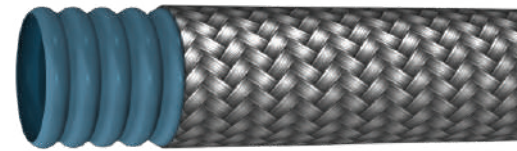
Note: Working and burst pressure are at 20°C Temperature

Item Code	Dash Size	→ ← WT	ID		OD		WP		BP		BR/r		W g/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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

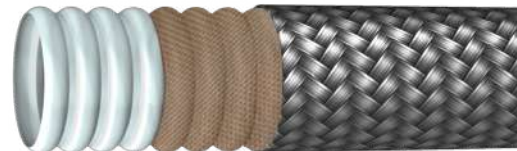
Application P.T.F.E hose has an excellent temperature characteristics both in high and low temperature. Excellent chemical resistance, non contamination properties, low coefficient of friction and resists deterioration. Therefore the hose is used generally in applications where all or one of the above 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	
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

PH372 - TAPE WRAPPED CONVOLUTED HOSE

**Construction**

Inner tube Helically convoluted sintered tube of polytetrafluoroethylene (P.T.F.E) externally reinforced with PTFE impregnated fiberglass

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 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

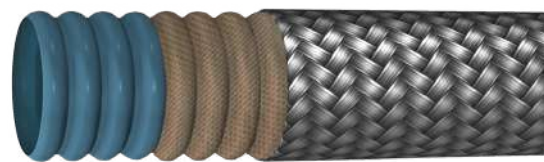
Item Code	Dash Size	ID		OD		WP		BP		BR/r		W
		inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
PH372-06	-6	3/8	9.65	0.591	15.0	1,000	69	4,000	276	1.0	25	200
PH372-08	-8	1/2	13.45	0.755	19.2	1,250	86	5,000	345	1.5	38	300
PH372-10	-10	5/8	16.48	0.907	23.0	1,400	97	5,600	386	2.0	51	390
PH372-12	-12	3/4	19.50	1.059	26.9	1,100	76	4,400	303	2.5	64	480
PH372-16	-16	1	25.88	1.338	34.0	870	60	3,480	241	3.0	76	560
PH372-20	-20	1.1/4	32.30	1.566	39.8	870	60	3,480	241	3.5	89	720
PH372-24	-24	1.1/2	38.85	1.799	45.7	750	52	3,000	207	4.5	114	780
PH372-32	-32	2	51.18	2.294	58.3	490	34	1,960	138	5.2	133	1150



Temperature Range: Continuous: -54°C to +200°C

Note: Working and burst pressure are at 20°C.

PH375- TAPE WRAPPED ELECTRICAL CONDUCTIVE CONVOLUTED HOSE



Construction

Inner tube Helically convoluted sintered tube of polytetrafluoroethylene (P.T.F.E- Electrical Conductive) externally reinforced with PTFE impregnated fiberglass

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 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	ID		OD		WP		BP		BR/r		W g/m
		inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
PH375-06	-6	3/8	9.65	0.591	15.0	1,000	69	4,000	276	1.0	25	200
PH375-08	-8	1/2	13.45	0.755	19.2	1,250	86	5,000	345	1.5	38	300
PH375-10	-10	5/8	16.48	0.907	23.0	1,400	97	5,600	386	2.0	51	390
PH375-12	-12	3/4	19.50	1.059	26.9	1,100	76	4,400	303	2.5	64	480
PH375-16	-16	1	25.88	1.338	34.0	870	60	3,480	241	3.0	76	560
PH375-20	-20	1.1/4	32.30	1.566	39.8	870	60	3,480	241	3.5	89	720
PH375-24	-24	1.1/2	38.85	1.799	45.7	750	52	3,000	207	4.5	114	780
PH375-32	-32	2	51.18	2.294	58.3	490	34	1,960	138	5.2	133	1150

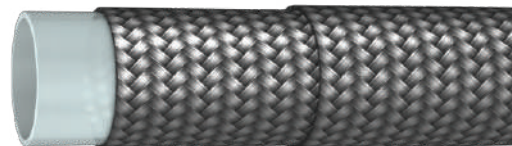


Temperature Range: Continuous: -54°C to +200°C

Note: Working and burst pressure are at 20°C.

PH381 - R14 2W

Applicable Standard: Exceeds SAE J517 - 100R14 p ressure 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 g/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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

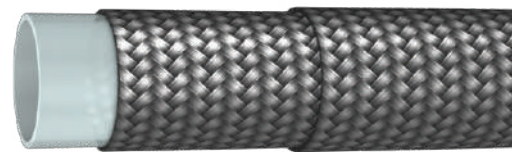
PH382 - PTFE GAS HOSE

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	
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.

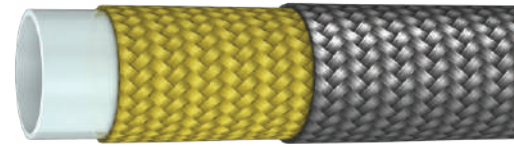


Item Code	ID		OD		WP		BP		BR/r		W
	inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
PH765-04	1/4	6.40	0.428	10.87	800	54.0	3,200	216	2.8	70	115
PH765-05	5/16	8.00	0.499	12.68	800	54.0	3,200	216	3.0	76	130
PH765-06	3/8	9.53	0.605	15.37	800	54.0	3,200	216	3.3	83	165
PH765-07	7/16	10.90	0.663	16.84	800	54.0	3,200	216	3.8	96	175
PH765-08	1/2	13.00	0.769	19.53	800	54.0	3,200	216	5.3	134	185



Temperature Range: Continuous: -54°C to +260°C

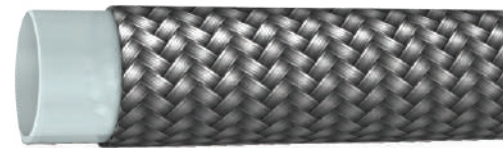
PH775 - GAS HOSE - ARAMID

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 g/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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 g/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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



Item Code	Dash Size	→ ← WT	ID		OD		WP		BP		BR/r		W g/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
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 g/m
			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

PH779 - MEDIUM PRESSURE HOSE

**Construction****Inner tube** Sintered tube of polytetrafluoroethylene (P.T.F.E)**Reinforcement** Single braid of 304 of stainless steel wire**Cover** Polyurethane (Fire Retardant)**Application** Used in heavy duty environments where high temperature, high pressure, chemical resistance and elastic qualities are required. Also can be used for print, gasoline, hydraulic oil and food transportation**Other options**

PH779C : Electrical conductive inner polytetrafluoroethylene tube for conductive and antistatic application

Item Code	Dash Size	ID		OD		WP		BP		BR/r		W g/m
		inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
PH779-04	-04	1/4	6.40	0.470	11.9	2175	150	8700	600	1.5	38	170
PH779-06	-06	3/8	9.50	0.600	15.2	1450	100	5800	400	2.5	64	230
PH779-08	-08	1/2	12.70	0.724	18.4	1189	82	4757	328	3.5	89	330
PH779-10	-10	5/8	16.00	0.890	22.6	1088	75	4352	300	4.5	114	390
PH779-12	-12	3/4	19.00	1.024	26.0	1088	75	4352	300	7.1	180	530

**Temperature Range:** Continuous: -40°C to +150°C

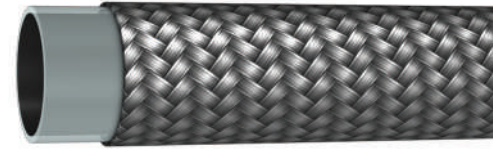
PH1570 - HIGH PRESSURE PTFE HOSE (D-PAC BRAID DESIGN)

Construction

Inner tube Sintered tube of polytetrafluoroethylene (Electrical Conductive)

Reinforcement SS 304 wire braid in a unique braid design

Application Industrial gases, hydraulic service with phosphate ester fluids, compressed natural gas, to transfer automotive sealants, multi component - injection moulding machine.



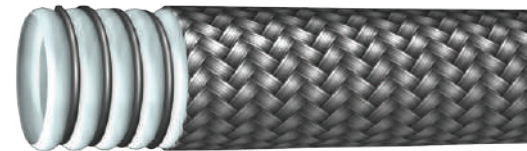
Item Code	Dash Size	ID		OD		WP		BP		BR/r		W
		inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
PH1570-04	-04	0.225	5.72	0.375	9.5	5000	345	15000	1034	1.5	38	149
PH1570-06	-06	0.308	7.82	0.480	12.2	5000	345	15000	1034	2.5	64	242
PH1570-08	-08	0.401	10.19	0.600	15.2	5000	345	15000	1034	2.9	73	345
PH1570-10	-10	0.495	12.57	0.710	18.0	5000	345	15000	1034	3.3	83	484
PH1570-12	-12	0.655	16.64	0.970	24.6	5000	345	15000	1034	4.0	102	982
PH1570-16	-16	0.875	22.23	1.245	31.6	5000	345	15000	1034	5.0	127	1518



Temperature Range: Continuous: -54°C to +204°C

- Available in long length
- Impulse tested at working pressure @ 200,000 cycles
- Special high density braid package offering high pressure at low weight and volume

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		psi	bar	inch	mm	
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

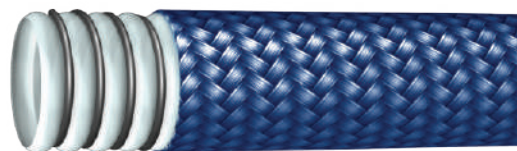
PH783 - CONVOLUTED PTFE HOSE WITH HELIX WIRE AND POLYPROPYLENE YARN STANDARD WALL

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		psi	bar	inch	mm	
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

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		psi	bar	inch	mm	
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

PH902 - 2 SPIRALS OF HIGH TENSILE STEEL WIRE

Construction

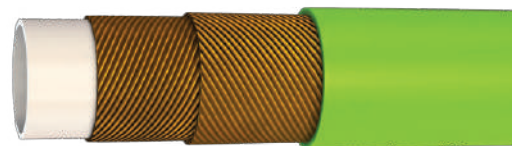
Inner tube I.D 3mm - 8mm Polyoxymethylene (POM)
I.D 10mm - 25mm Polyamide (PA)

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

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)

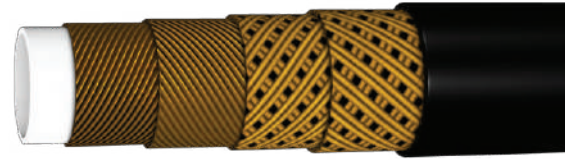
Reinforcement 4 Spirals of high-tensile steel wire, 2 dense and 2 open layers

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

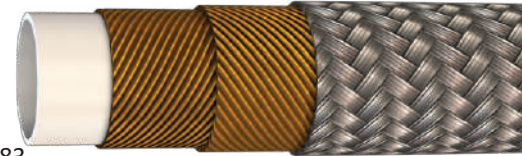
Inner tube Polytetrafluoroethylene (PTFE)

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

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	
PH360-04	-04	06	1/4	6.5	0.510	13.0	290	20	1740	120	1.0	25	145
PH360-05	-05	08	5/16	8.0	0.590	15.0	290	20	1740	120	1.2	30	165
PH360-06	-06	10	3/8	9.5	0.650	16.5	290	20	1740	120	1.6	40	190
PH360-08	-08	12	1/2	12.7	0.827	21.0	290	20	1160	80	2.0	50	300
PH360-12	-12	19	3/4	19.0	1.122	28.5	290	20	1160	80	2.8	70	460
PH360-16	-16	25	1	25.4	1.358	34.5	290	20	870	60	5.0	125	620



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	
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	
PH362-03	-03	05	3/16	4.8	0.413	10.5	220	15	800	55	0.9	23	105
PH362-04	-04	06	1/4	6.5	0.492	12.5	220	15	800	55	1.0	25	125
PH362-05	-05	08	5/16	8.0	0.571	14.5	220	15	800	55	1.1	28	155
PH362-06	-06	10	3/8	9.5	0.630	16.0	220	15	800	55	1.5	38	180
PH362-08	-08	12	1/2	12.7	0.827	21.0	220	15	800	55	2.0	50	250



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 g/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
PH365-04	-04	06	1/4	6.5	0.492	12.5	230	16	920	64	2.0	50	125
PH365-05	-05	08	5/16	8.0	0.571	14.5	230	16	920	64	3.0	75	155
PH365-06	-06	10	3/8	9.5	0.630	16.0	230	16	920	64	4.0	100	180
PH365-08	-08	12	1/2	12.7	0.795	20.2	230	16	920	64	4.3	110	260
PH365-12	-12	19	3/4	19.0	1.067	27.1	145	10	580	40	5.0	125	400
PH365-16	-16	25	1	25.4	1.299	33.0	145	10	580	40	6.0	150	500



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 g/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
PH365L-04	-04	06	1/4	6.5	0.453	11.5	230	16	920	64	2.4	60	90
PH365L-05	-05	08	5/16	8.0	0.530	13.5	230	16	920	64	3.3	85	130
PH365L-06	-06	10	3/8	9.5	0.590	15.0	230	16	920	64	4.3	110	150
PH365L-08	-08	12	1/2	12.7	0.736	18.7	230	16	920	64	5.1	130	220
PH365L-12	-12	19	3/4	19.0	1.024	26.0	145	10	580	40	5.7	145	330
PH365L-16	-16	25	1	25.4	1.240	31.5	145	10	580	40	6.7	170	450



Temperature Range: Continuous: -10°C to +60°C

PH367 - P.V.C BRAIDED HOSE

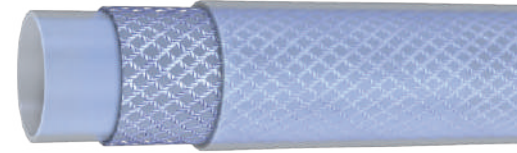
Construction

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 g/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
PH367-04	-04	06	1/4	6.5	0.492	12.5	435	30	1740	120	1.2	30	125
PH367-05	-05	08	5/16	8.0	0.571	14.5	435	30	1300	90	1.4	35	150
PH367-06	-06	10	3/8	9.5	0.630	16.0	435	30	1300	90	1.8	45	180
PH367-08	-08	12	1/2	12.7	0.795	20.2	360	25	1090	75	2.2	55	230
PH367-10	-10	16	5/8	16.0	0.945	24.0	320	22	1090	75	3.3	85	320
PH367-12	-12	20	3/4	19.0	1.063	27.0	320	22	1090	75	4.3	110	380
PH367-16	-16	25	1	25.4	1.299	33.0	220	15	725	50	5.3	135	490



Temperature Range: Continuous: -10°C to +60°C

PH367L - P.V.C BRAIDED HOSE - LIGHT DUTY

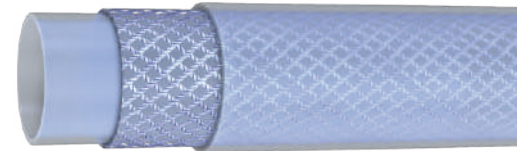
Construction

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 g/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
PH367L-04	-04	06	1/4	6.5	0.433	11.0	435	30	920	64	1.6	40	87
PH367L-05	-05	08	5/16	8.0	0.512	13.0	435	30	920	64	1.8	45	126
PH367L-06	-06	10	3/8	9.5	0.571	14.5	435	30	920	64	2.2	55	146
PH367L-08	-08	12	1/2	12.7	0.728	18.5	360	25	920	64	2.6	65	213
PH367L-12	-12	19	3/4	19.0	1.004	25.5	320	22	580	40	5.1	130	320
PH367L-16	-16	25	1	25.4	1.220	31.0	220	15	580	40	6.1	155	437



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 g/m
			inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	
PH368-04	-04	06	1/4	6.5	0.492	12.5	290	20	870	60	1.0	25	115
PH368-05	-05	08	5/16	8.0	0.571	14.5	290	20	870	60	1.2	30	160
PH368-06	-06	10	3/8	9.5	0.630	16.0	290	20	870	60	1.6	40	185
PH368-08	-08	12	1/2	12.7	0.795	20.2	290	20	870	60	2.0	50	245
PH368-10	-10	16	5/8	16.0	0.945	24.0	290	20	870	60	2.6	65	350
PH368-12	-12	19	3/4	19.0	1.067	27.1	290	20	870	60	2.8	70	400
PH368-16	-16	25	1	25.4	1.299	33.0	290	20	725	50	5.0	125	495



Temperature range : Continuous -10°C to +60°C

PH767 - FRAS AIR / WATER HOSE

Applicable Standard: AS 2660 & AS/NZS 2554 Class A

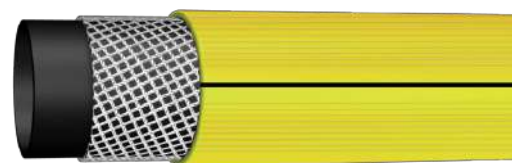
Construction

Inner tube Plasticized PVC, Black

Reinforcement Synthetic fiber / Aramid fiber

Cover Thermocompound, Yellow color with two black strips

Application FRAS (Fire, Resistant, Antistatic) rated hose made from light weight, highly abrasion-resistant polymer developed specially for use in underground coal mining industry.



Item Code	Dash Size	ID		OD		WP		BP		BR/r		W
		inch	mm	inch	mm	psi	bar	psi	bar	inch	mm	g/m
PH767-06	-06	3/8	10.0	0.669	17.0	300	20	1200	80	3.3	85	200
PH767-08	-08	1/2	12.5	0.866	22.0	300	20	1200	80	3.9	100	310
PH767-12	-12	3/4	20.0	1.181	30.0	300	20	1200	80	5.9	150	500
PH767-16	-16	1	25.0	1.378	35.0	500	34	1500	102	7.1	180	630
PH767-20	-20	1 1/4	32.0	1.732	44.0	300	20	1200	80	8.7	220	980
PH767-24	-24	1 1/2	40.0	2.008	51.0	500	34	1500	102	9.8	250	1100
PH767-32	-32	2	52.0	2.520	64.0	300	20	1200	80	12.6	320	1470



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



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

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



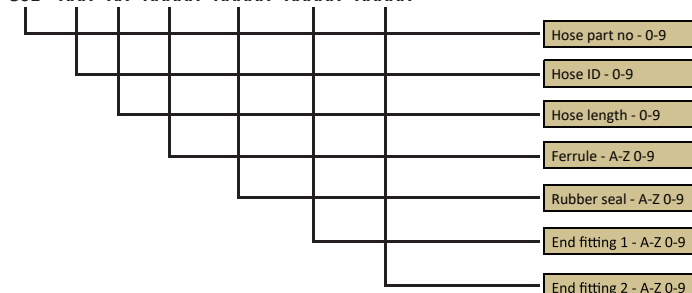
Temperature Range: Continuous: -30°C to +80°C

COMPOSITE HOSE ASSEMBLY NOMENCLATURE

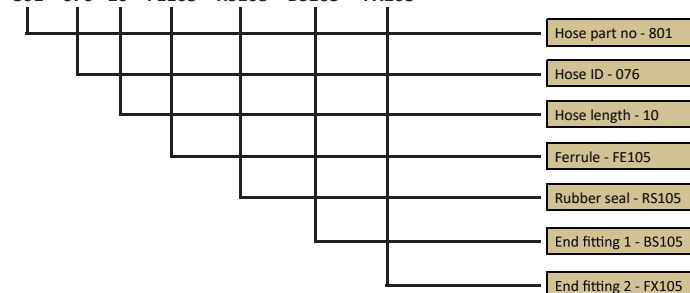
3" x 10 mtrs length Poly Tanker Hose (PH801) with one end 3" CS BSP nipple another End 3" CS fixed flange along with CS Ferrule and Nitrile seal

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

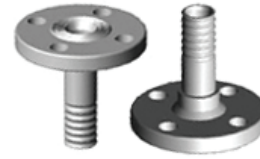
Size		Material		
inch	mm	CS	SS 304	SS 316
1"	25	PHBS-101	PHBS-201	PHBS-301
1.5"	38	PHBS-102	PHBS-202	PHBS-302
2"	50	PHBS-103	PHBS-203	PHBS-303
2.5"	63	PHBS-104	PHBS-204	PHBS-304
3"	75	PHBS-105	PHBS-205	PHBS-305
4"	100	PHBS-106	PHBS-206	PHBS-306
6"	150	PHBS-107	PHBS-207	PHBS-307
8"	200	PHBS-108	PHBS-208	PHBS-308

SWIVEL COUPLING



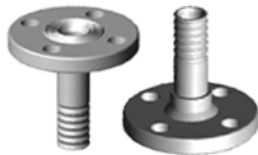
Size		HEXAGONAL NUT		SWIVEL NUT WITH LUG	
inch	mm	BRASS	GUN METAL	BRASS	GUN METAL
1"	25	PHSC-501	PHSC-401	PHSC-509	PHSC-409
1.5"	38	PHSC-502	PHSC-402	PHSC-510	PHSC-410
2"	50	PHSC-503	PHSC-403	PHSC-511	PHSC-411
2.5"	63	PHSC-504	PHSC-404	PHSC-512	PHSC-412
3"	75	PHSC-505	PHSC-405	PHSC-513	PHSC-413
4"	100	PHSC-506	PHSC-406	PHSC-514	PHSC-414
6"	150	PHSC-507	PHSC-407	PHSC-515	PHSC-415

FIXED FLANGE CS



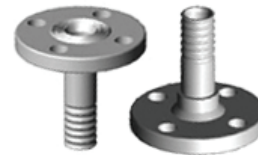
Size		STANDARD			
inch	mm	ASA 150	ANSI	DIN	JIS
1"	25	PHFX-101	PHFX-111	PHFX-121	PHFX-131
1.5"	38	PHFX-102	PHFX-112	PHFX-122	PHFX-132
2"	50	PHFX-103	PHFX-113	PHFX-123	PHFX-133
2.5"	63	PHFX-104	PHFX-114	PHFX-124	PHFX-134
3"	75	PHFX-105	PHFX-115	PHFX-125	PHFX-135
4"	100	PHFX-106	PHFX-116	PHFX-126	PHFX-136
6"	150	PHFX-107	PHFX-117	PHFX-127	PHFX-137
8"	200	PHFX-108	PHFX-118	PHFX-128	PHFX-138

FIXED FLANGE SS 304



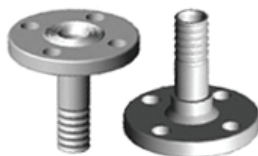
Size		STANDARD			
inch	mm	ASA 150	ANSI	DIN	JIS
1"	25	PHFX-201	PHFX-211	PHFX-221	PHFX-231
1.5"	38	PHFX-202	PHFX-212	PHFX-222	PHFX-232
2"	50	PHFX-203	PHFX-213	PHFX-223	PHFX-233
2.5"	63	PHFX-204	PHFX-214	PHFX-224	PHFX-234
3"	75	PHFX-205	PHFX-215	PHFX-225	PHFX-235
4"	100	PHFX-206	PHFX-216	PHFX-226	PHFX-236
6"	150	PHFX-207	PHFX-217	PHFX-227	PHFX-237
8"	200	PHFX-208	PHFX-218	PHFX-228	PHFX-238

FIXED FLANGE SS 316



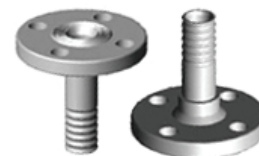
Size		STANDARD			
inch	mm	ASA 150	ANSI	DIN	JIS
1"	25	PHFX-301	PHFX-311	PHFX-321	PHFX-331
1.5"	38	PHFX-302	PHFX-312	PHFX-322	PHFX-332
2"	50	PHFX-303	PHFX-313	PHFX-323	PHFX-333
2.5"	63	PHFX-304	PHFX-314	PHFX-324	PHFX-334
3"	75	PHFX-305	PHFX-315	PHFX-325	PHFX-335
4"	100	PHFX-306	PHFX-316	PHFX-326	PHFX-336
6"	150	PHFX-307	PHFX-317	PHFX-327	PHFX-337
8"	200	PHFX-308	PHFX-318	PHFX-328	PHFX-338

FLOATING FLANGE CS



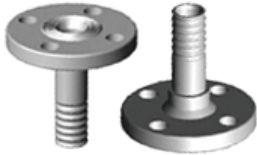
Size		STANDARD			
inch	mm	ASA 150	ANSI	DIN	JIS
1"	25	PHFL-101	PHFL-111	PHFL-121	PHFL-131
1.5"	38	PHFL-102	PHFL-112	PHFL-122	PHFL-132
2"	50	PHFL-103	PHFL-113	PHFL-123	PHFL-133
2.5"	63	PHFL-104	PHFL-114	PHFL-124	PHFL-134
3"	75	PHFL-105	PHFL-115	PHFL-125	PHFL-135
4"	100	PHFL-106	PHFL-116	PHFL-126	PHFL-136
6"	150	PHFL-107	PHFL-117	PHFL-127	PHFL-137
8"	200	PHFL-108	PHFL-118	PHFL-128	PHFL-138

FLOATING FLANGE SS 304



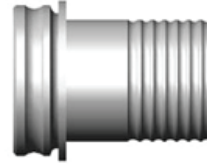
Size		STANDARD			
inch	mm	ASA 150	ANSI	DIN	JID
1"	25	PHFL-201	PHFL-211	PHFL-221	PHFL-231
1.5"	38	PHFL-202	PHFL-212	PHFL-222	PHFL-232
2"	50	PHFL-203	PHFL-213	PHFL-223	PHFL-233
2.5"	63	PHFL-204	PHFL-214	PHFL-224	PHFL-234
3"	75	PHFL-205	PHFL-215	PHFL-225	PHFL-235
4"	100	PHFL-206	PHFL-216	PHFL-226	PHFL-236
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

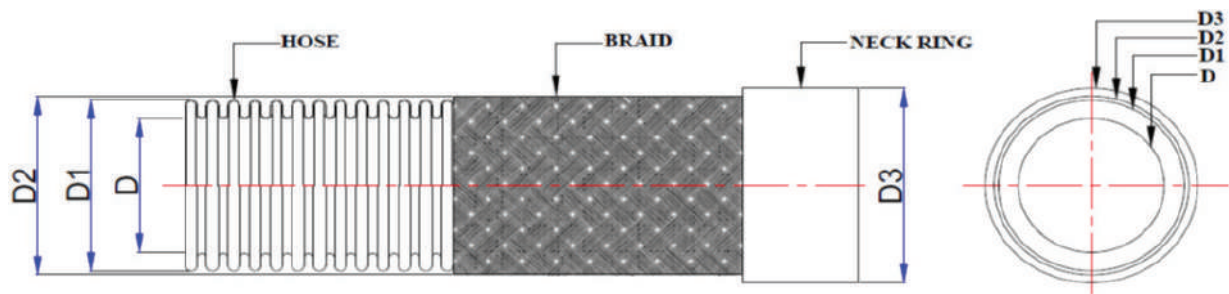
Digit 11: Version
0 – Standard
1 – Special Wire

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	Coverage %	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 specification 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	(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"	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

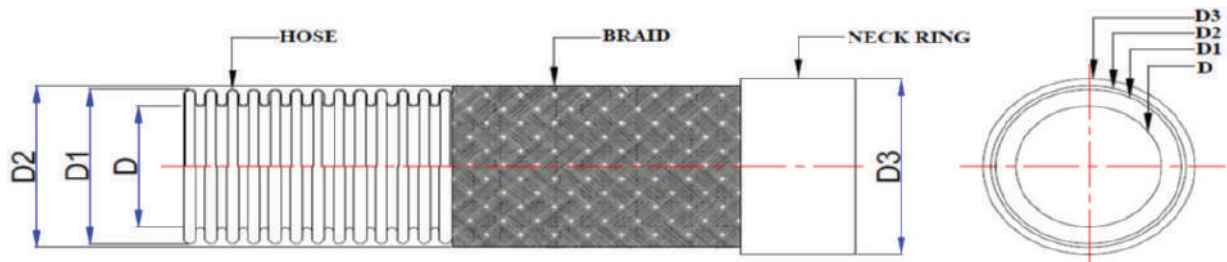
NOTE:

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 specification 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	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 specification 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"	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

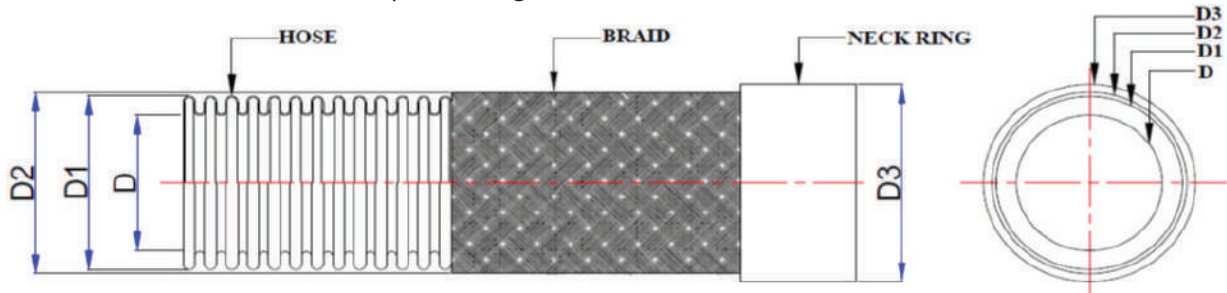
NOTE:

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 specification 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 Coverage							
		(D)	(D1)	(D2)	(Dx)		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 specification 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		Weight per Foot W
				Coverage	(D)	(D1 & D2)	W.P (Max) @70°F	B.P (Max) @70°F	Dynamic	Static	
				%	inch	inch	psi	psi	inch	inch	lbs
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

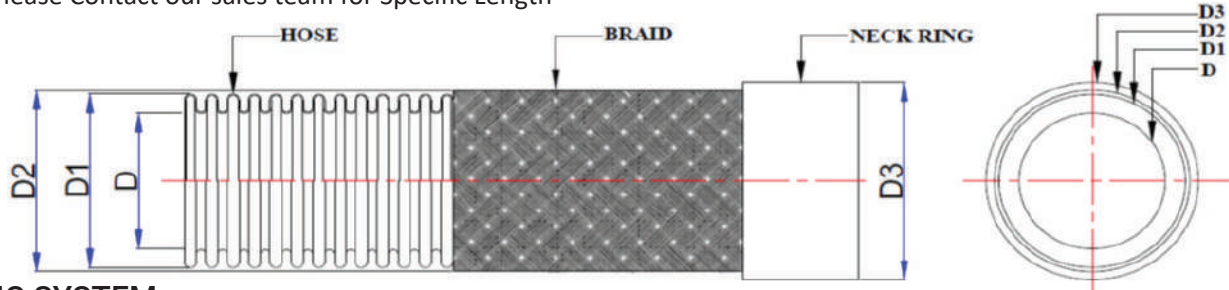
NOTE:

- Test Pressure is 1.5 times of Working Pressure @ 70°F.
- WP - Working Pressure, BP - Burst Pressure.
- Contact Factory for Temperature correction Factor.
- These informations are for guidance only, we reserve, the right to alter (OR) amend specification as deemed necessary.
- 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)		Static	Dynamic	SWB* W.P (Max)	DWB W.P (Max)	SWB B.P (Min)	SWB Weight	DWB Weight
		mm	mm	mm	mm								
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 specification as deemed necessary.



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	
				%	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

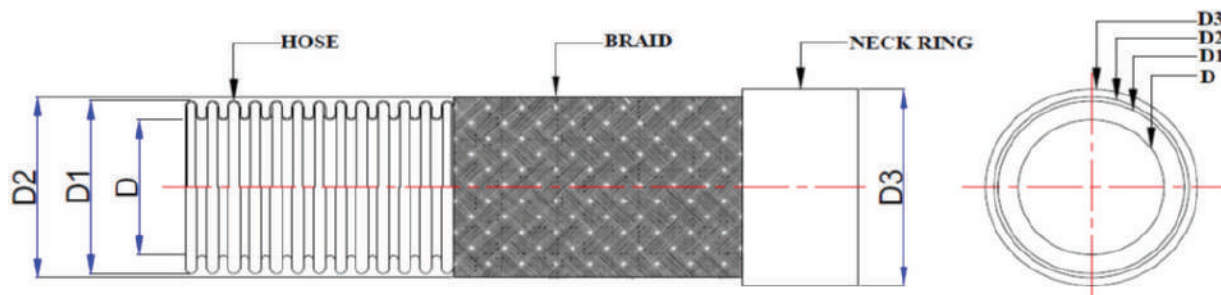
NOTE:

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 specification 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							
		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	bar	bar	bar	Kg/m	Kg/m
R032HFMXR10	32	31.6	43.2	44.8	± 0.50	90	105	300	30	45	120	0.75	1.11
R040HFMXR10	40	40.3	51.5	53.1	± 0.50	92	130	340	30	45	120	1.05	1.61
R050HFMXR10	50	49.5	62.7	64.3	± 1.00	96	160	390	24	36	96	1.27	1.88
R065HFMXR10	65	64.8	78.3	80.3	± 1.00	94	200	460	22	33	88	1.88	2.91
R080HFMXR10	80	79.8	96.5	98.5	± 1.00	96	240	660	18	27	72	2.35	3.54
R100HFMXR10	100	99.8	116.2	118.2	± 1.00	94	290	750	16	24	64	2.89	4.36
R125HFMXR10	125	130	154	157.5	± 1.50	92	350	1000	14	21	56	5.13	7.44
R150HFMXR10	150	154	180.5	182.5	± 1.50	90	400	1250	10	15	40	5.91	8.40
R200HFMXR10	200	204	233.4	236	± 1.50	90	520	1600	8	12	32	8.64	11.69
R250HFMXR10	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 specification 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 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 specification as deemed necessary.
5. General Tolerance is applicable.

HYDRAULIC FITTING CODIFICATION - INSERTS / 1 PIECE FITTINGS

1	2	3	4	5	6	7	8	-	10	11	12	13	-	15
---	---	---	---	---	---	---	---	---	----	----	----	----	---	----

1	COMPONENT TYPE	2	3	INSERT TYPE	4	5	TERMINATION CODE
---	----------------	---	---	-------------	---	---	------------------

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 /R15
97	RU-R18
98	RU-R5
99	RU-1SN/2SN

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	7	OTHER SPECIFICATION	8	HEAD TYPE
---	----------	---	---------------------	---	-----------

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

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

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	15	MATERIAL TYPE
----	--------------	----	---------------

CODE	DESCR
0	FINISHED GOODS

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

1	2	3	4	5	6	7	8	-	10	11	-	-	-	15
---	---	---	---	---	---	---	---	---	----	----	---	---	---	----

1	COMPONENT TYPE	2	3	FERRULE TYPE	4	5	6	7	8	SERIES TYPE
---	----------------	---	---	--------------	---	---	---	---	---	-------------

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 /R15
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 - 4SP/4SH/R13/R15
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

9	DASH	10	11	HOSE SIZE	-	-	NOT IN USE
---	------	----	----	-----------	---	---	------------

14	FINISH GOODS	15	MATERIAL TYPE
----	--------------	----	---------------

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

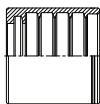
NO SKIVE - FE2P-MT



21010050
1SC/R17



21010150
1SC/R17/1SN/R1AT/
2SC/R16



21010200
2SN/R2AT



21010210
1SN/R1AT/2SC/
R16/2SN/R2AT/R17



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/R17



21020400
4SP/R12



21020405
4SP/4SH/R13/R15

INSERTS - MULTITYPE - 110 SERIES

BSP - HF2P-MT



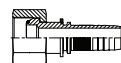
11004005
BSPT M



11001005
BSPP M



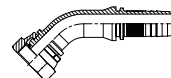
11002001
BSPP OR FS (CRN)



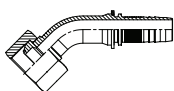
11002002
BSPP OR FS (SON)



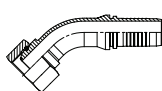
11002003
BSPP OR FS (TWN)



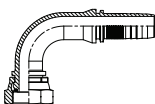
11002401
BSPP OR FS 45 (CRN)



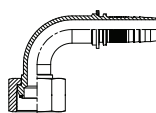
11002402
BSPP OR FS 45 (SON)



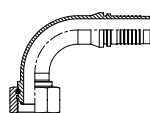
11002403
BSPP OR FS 45 (TWN)



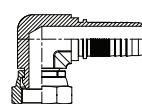
11002901
BSPP OR FS 90 (CRN)



11002902
BSPP OR FS 90 (SON)



11002903
BSPP OR FS 90 (TWN)



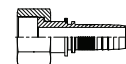
110029C1
BSPP FS 90 CP (CRN)



11003005
BSPP FSEAT M



11003001
BSPP FSEAT FS (CRN)



11003002
BSPP FSEAT FS (SON)

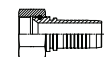
JIC 37° - HF2P-MT



11011005
JIC M



11011001
JIC FS (CRN)



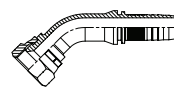
11011003
JIC FS (TWN)



110110H1
JIC FS DH (CRN)

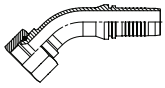


110110H3
JIC FS DH (TWN)

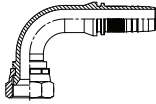


11011401
JIC FS 45 (CRN)

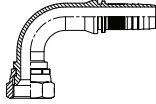
JIC 37° - HF2P-MT



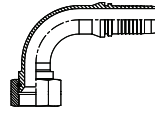
11011403
JIC FS 45 (TWN)



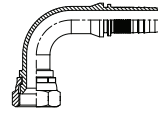
110119S1
JIC FS 90 SD (CRN)



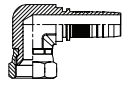
11011901
JIC FS 90 (CRN)



11011903
JIC FS 90 (TWN)



110119L1
JIC FS 90 LD (CRN)

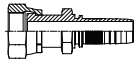


110119C1
JIC FS 90 CP (CRN)

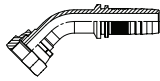
ORFS - HF2P-MT



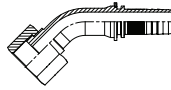
11031005
ORFS M



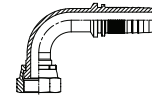
11031001
ORFS FS (CRN)



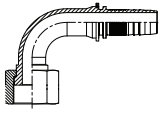
11031401
ORFS FS 45 (CRN)



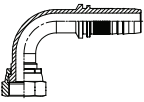
11031402
ORFS FS 45 (SON)



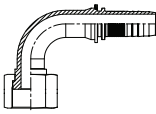
110319S1
ORFS FS 90 SD (CRN)



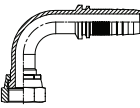
110319S2
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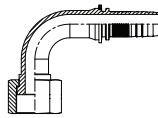
11031901
ORFS FS 90 (CRN)



11031902
ORFS FS 90 (SON)

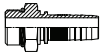


110319L1
ORFS FS 90 LD (CRN)



110319L2
ORFS FS 90 LD (SON)

SAE - HF2P-MT



11012005
SAE ORB M

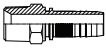


11013001
SAE 45 SEAT FS (CRN)



110130H1
SAE 45 SEAT DH FS (CRN)

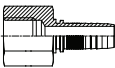
NPTF - HF2P-MT



11023005
NPTF M



11023008
NPTF MS

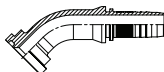


11023004
NPTF FF

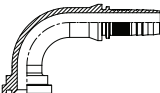
SAE FLANGE - HF2P-MT



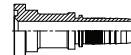
11041000
SAE 61 3K FL



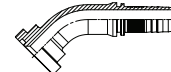
11041400
SAE 61 3K FL 45



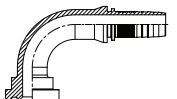
11041900
SAE 61 3K FL 90



11042000
SAE 62 6K FL

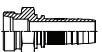


11042400
SAE 62 6K FL 45



11042900
SAE 62 6K FL 90

METRIC - HF2P-MT



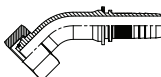
11053005
M24 CEL M



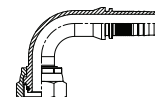
11055001
M24 DKOL FS (CRN)



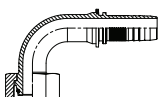
11055002
M24 DKOL FS (SON)



11055402
M24 DKOL FS 45 (SON)



11055901
M24 DKOL FS 90 (CRN)

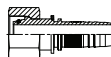


11055902
M24 DKOL FS 90 (SON)

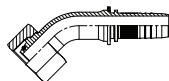
METRIC - HF2P-MT



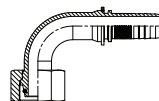
11054005
M24 CES M



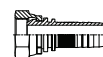
11056002
M24 DKOS FS (SON)



11056402
M24 DKOS FS 45 (SON)



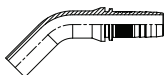
11056902
M24 DKOS FS 90 (SON)



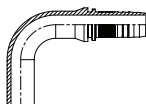
11060001
METRIC 60C FS (CRN)



11051000
MSP



11051400
MSP 45



11051900
MSP 90

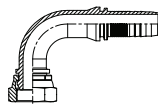
JIS - HF2P-MT



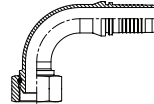
11065001
JIS C FS (CRN)



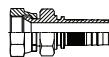
11065003
JIS C FS (TWN)



11065901
JIS C FS 90 (CRN)



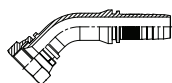
11065903
JIS C FS 90 (TWN)



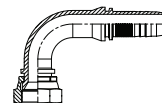
11066001
JIS F FS (CRN)



11066003
JIS F FS (TWN)



11066401
JIS F FS 45 (CRN)

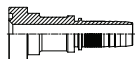


11066901
JIS F FS 90 (CRN)

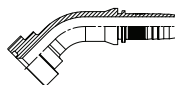


11071001
KOMATSU FS (CRN)

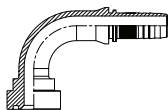
OEM - HF2P-MT



11073000
SCAT 9K FL



11073400
SCAT 9K FL 45

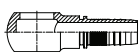


11073900
SCAT 9K FL 90

BANJO - HF2P-MT



110010A0
BSPP BANJO



110570A0
METRIC BANJO

ACCESSORIES - HF2P-MT

11092000
H-H



11093000
BRAZE TAIL



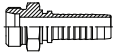
110010B0
BSPP BANJO BOLT



110570B0
METRIC BANJO BOLT

FERRULES - MULTISPIRAL - 230 SERIES**SKIVE - FE2P-MS**

23020410
4SH

INSERTS - MULTISPIRAL - 130 SERIES**BSP - HF2P-MS**

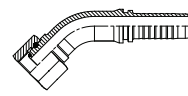
13004005
BSPT M



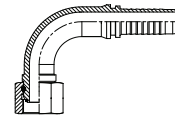
13001005
BSPP M



13002003
BSPP OR FS (TWN)



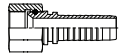
13002403
BSPP OR FS 45 (TWN)



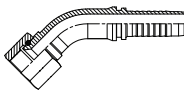
13002903
BSPP OR FS 90 (TWN)

JIC 37° - HF2P-MS

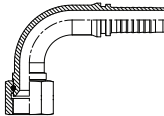
13011005
JIC M



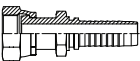
13011003
JIC FS (TWN)



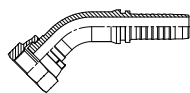
13011403
JIC FS 45 (TWN)



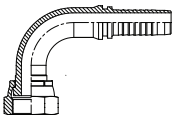
13011903
JIC FS 90 (TWN)

ORFS - HF2P-MS

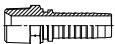
13031001
ORFS FS (CRN)



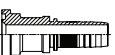
13031401
ORFS FS 45 (CRN)



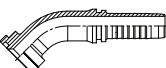
13031901
ORFS FS 90 (CRN)

NPTF - HF2P-MS

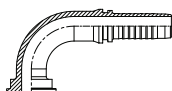
13023005
NPTF M

SAE FLANGE - HF2P-MS

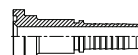
13041000
SAE 61 3K FL



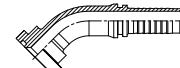
13041400
SAE 61 3K FL 45



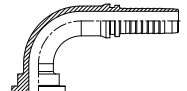
13041900
SAE 61 3K FL 90



13042000
SAE 62 6K FL

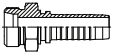


13042400
SAE 62 6K FL 45

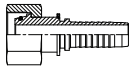


13042900
SAE 62 6K FL 90

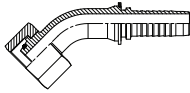
METRIC - HF2P-MS



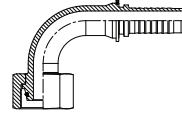
13054005
M24 CES M



13056002
M24 DKOS FS (SON)

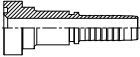


13056402
M24 DKOS FS 45 (SON)

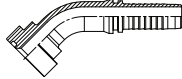


13056902
M24 DKOS FS 90 (SON)

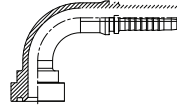
OEM - HF2P-MS



13073000
SCAT 9K FL



13073400
SCAT 9K FL 45



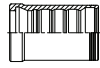
13073900
SCAT 9K FL 90

FERRULES - INTERLOCK - 240 SERIES

INTERLOCK - FE2P-IL



24030420
4SH/R13/R15



24030430
4SH



24030600
R13/R15

INSERTS - INTERLOCK - 140 SERIES

BSP - HF2P-IL



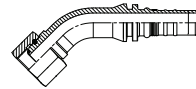
14004005
BSPT M



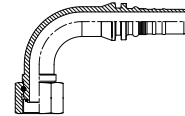
14001005
BSPP M



14002003
BSPP OR FS (TWN)



14002403
BSPP OR FS 45 (TWN)



14002903
BSPP OR FS 90 (TWN)

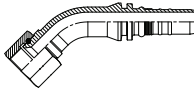
JIC 37° - HF2P-IL



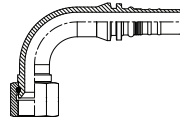
14011005
JIC M



14011003
JIC FS (TWN)

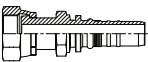


14011403
JIC FS 45 (TWN)

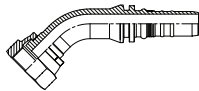


14011903
JIC FS 90 (TWN)

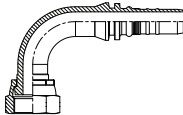
ORFS - HF2P-IL



14031001
ORFS FS (CRN)



14031401
ORFS FS 45 (CRN)



14031901
ORFS FS 90 (CRN)

NPTF - HF2P-IL

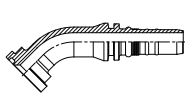


14023005
NPTF M

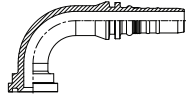
SAE FLANGE - HF2P-IL



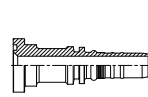
14041000
SAE 61 3K FL



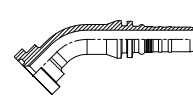
14041400
SAE 61 3K FL 45



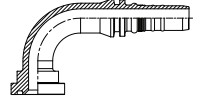
14041900
SAE 61 3K FL 90



14042000
SAE 62 6K FL

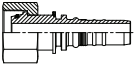


14042400
SAE 62 6K FL 45

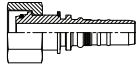


14042900
SAE 62 6K FL 90

METRIC- HF2P-IL



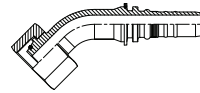
14054005
M24 CES M



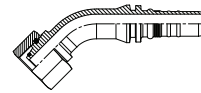
14056002
M24 DKOS FS (SON)



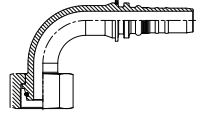
14056003
M24 DKOS FS (TWN)



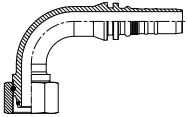
14056402
M24 DKOS FS 45 (SON)



14056403
M24 DKOS FS 45 (TWN)

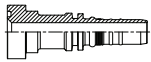


14056902
M24 DKOS FS 90 (SON)

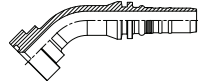


14056903
M24 DKOS FS 90 (TWN)

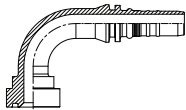
OEM - HF2P-IL



14073000
SCAT 9K FL



14073400
SCAT 9K FL 45



14073900
SCAT 9K FL 90

ACCESSORIES

FLANGE CLAMP



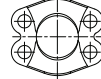
11041020
SAE 61 3K SFL



11042020
SAE 62 6K SFL



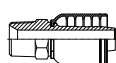
11041010
SAE 61 3K 4FL



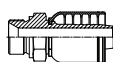
11042010
SAE 62 6K 4FL

ONE PIECE - WB - 1SC / R17 / 1SN / R1AT / 2SC / R16 / 2SN / R2AT - R12 -20 -24 - 350 SERIES

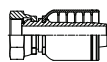
BSP - HF1P-WB



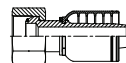
35004005
BSPT M



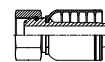
35001005
BSPP M



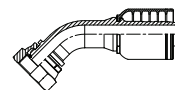
35002001
BSPP OR FS (CRN)



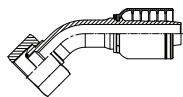
35002002
BSPP OR FS (SON)



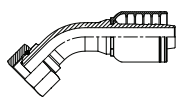
35002003
BSPP OR FS (TWN)



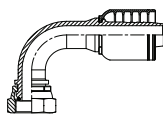
35002401
BSPP OR FS 45 (CRN)



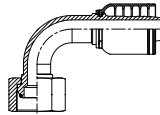
35002402
BSPP OR FS 45 (SON)



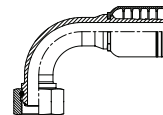
35002403
BSPP OR FS 45 (TWN)



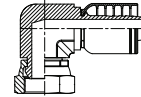
35002901
BSPP OR FS 90 (CRN)



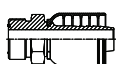
35002902
BSPP OR FS 90 (SON)



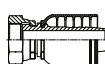
35002903
BSPP OR FS 90 (TWN)



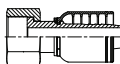
350029C1
BSPP OR FS 90 CP (CRN)



35003005
BSPP FSEAT M

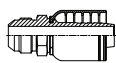


35003001
BSPP FSEAT FS (CRN)

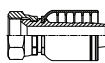


35003002
BSPP FSEAT FS (SON)

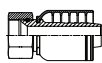
JIC 37° - HF1P-WB



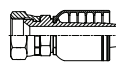
35011005
JIC M



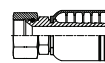
35011001
JIC FS (CRN)



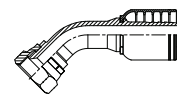
35011003
JIC FS (TWN)



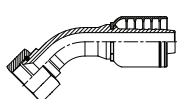
350110H1
JIC FS DH (CRN)



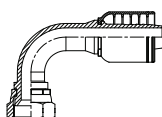
350110H3
JIC FS DH (TWN)



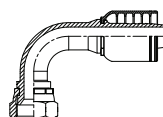
35011401
JIC FS 45 (CRN)



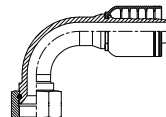
35011403
JIC FS 45 (TWN)



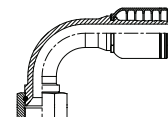
350119S1
JIC FS 90 SD (CRN)



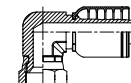
35011901
JIC FS 90 (CRN)



35011903
JIC FS 90 (TWN)



350119L1
JIC FS 90 LD (CRN)

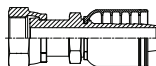


350119C1
JIC FS 90 CP (CRN)

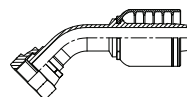
ORFS - HF1P-WB



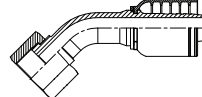
35031005
ORFS M



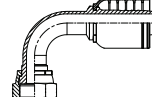
35031001
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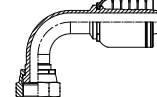
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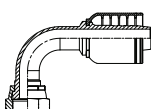
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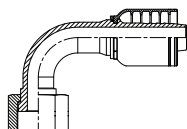
350319S1
ORFS FS 90 SD (CRN)



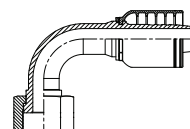
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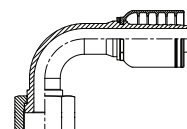
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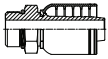
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ORFS FS 90 (SON)



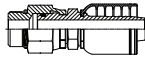
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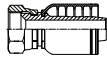
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SAE - HF1P-WB

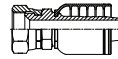
35012005
SAE ORB M



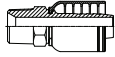
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SAE ORB MS



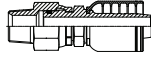
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SAE 45 SEAT FS (CRN)



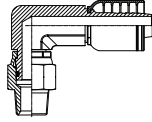
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NPTF - HF1P-WB

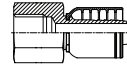
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NPTF M



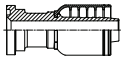
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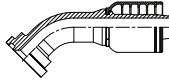
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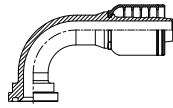
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NPTF FF

SAE FLANGE - HF1P-WB

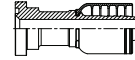
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SAE 61 3K FL



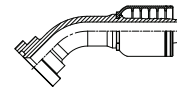
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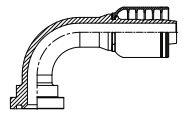
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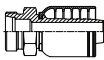
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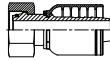
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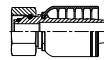
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METRIC - HF1P-WB

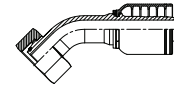
35053005
M24 CEL M



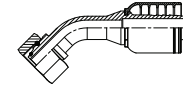
35055002
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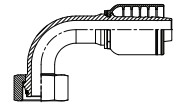
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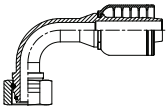
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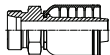
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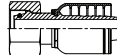
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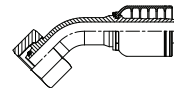
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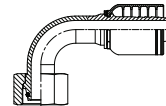
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M24 CES M



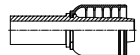
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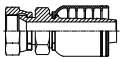
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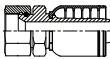
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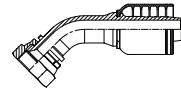
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JIS - HF1P-WB

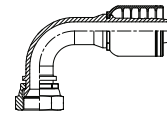
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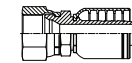
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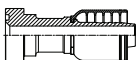
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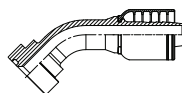
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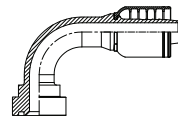
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KOMATSU FS (CRN)

OEM - HF1P-WB

35073000
SCAT 9K FL



35073400
SCAT 9K FL 45

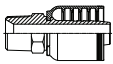


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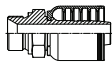
HYDRAULIC - FITTINGS REFERENCE CHART

ONE PIECE - WIRE SPIRAL - 4SP / R12 - 4SH / R13 / R15 -12 -16 - 355 SERIES

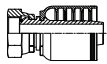
BSP - HF1P-WS 4SP/R12 - 4SH/R13/R15 -12 -16



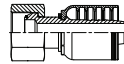
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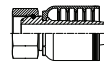
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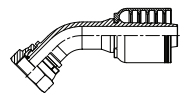
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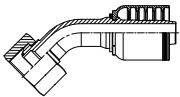
35502002
BSPP OR FS (SON)



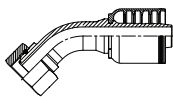
35502003
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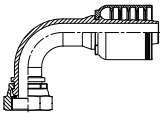
35502401
BSPP OR FS 45 (CRN)



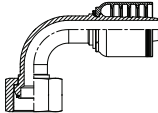
35502402
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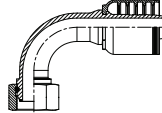
35502403
BSPP OR FS 45 (TWN)



35502901
BSPP OR FS 90 (CRN)

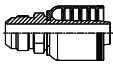


35502902
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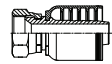


35502903
BSPP OR FS 90 (TWN)

JIC 37°- HF1P-WS 4SP/R12 - 4SH/R13/R15 -12 -16



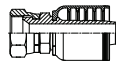
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JIC M



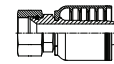
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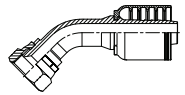
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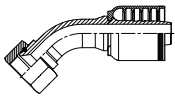
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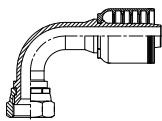
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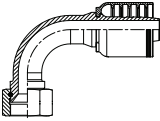
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35511403
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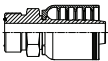


35511901
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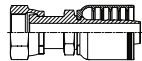


35511903
JIC FS 90 (TWN)

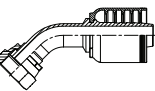
ORFS - HF1P-WS 4SP/R12 - 4SH/R13/R15 -12 -16



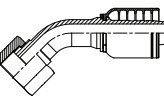
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ORFS M



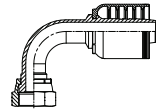
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ORFS FS (CRN)



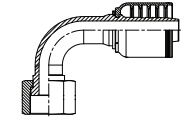
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35531402
ORFS FS 45 (SON)

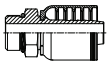


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ORFS FS 90 (CRN)



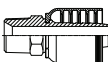
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ORFS FS 90 (SON)

SAE - HF1P-WS 4SP/R12 - 4SH/R13/R15 -12 -16



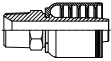
35512005
SAE ORB M

NPTF - HF1P-WS 4SP/R12 - 4SH/R13/R15 -12 -16



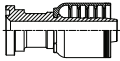
35523005
NPTF M

NPTF - HF1P-WS 4SP/R12 - 4SH/R13/R15 -12 -16

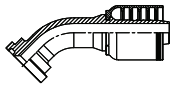


35523005
NPTF M

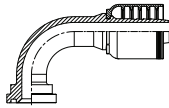
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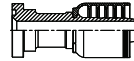
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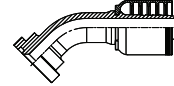
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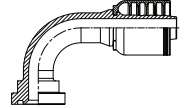
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35542000
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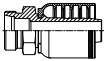


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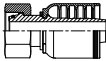


35542900
SAE 62 6K FL 90

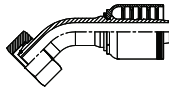
METRIC - HF1P-WS 4SP/R12 - 4SH/R13/R15 -12 -16



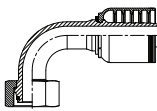
35553005
M24 CEL M



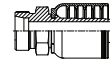
35555002
M24 DKOL FS (SON)



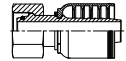
35555402
M24 DKOL FS 45 (SON)



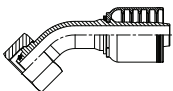
35555902
M24 DKOL FS 90 (SON)



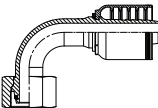
35554005
M24 CES M



35556002
M24 DKOS FS (SON)

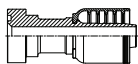


35556402
M24 DKOS FS 45 (SON)

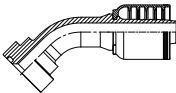


35556902
M24 DKOS FS 90 (SON)

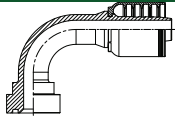
OEM - HF1P-WS 4SP/R12 - 4SH/R13/R15 -12 -16



35573000
SCAT 9K FL



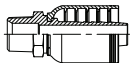
35573400
SCAT 9K FL 45



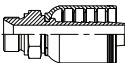
35573900
SCAT 9K FL 90

ONE PIECE - WIRE SPIRAL - 4SH / R13 / R15* - 4SP -12 -16 - 360 SERIES

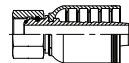
BSP - HF1P-WS 4SH/R13/R15* - 4SP -12 -16



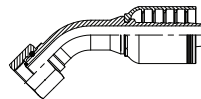
36004005
BSPT M



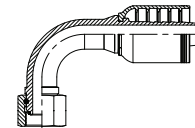
36001005
BSPP M



36002003
BSPP OR FS (TWN)



36002403
BSPP OR FS 45 (TWN)

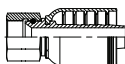


36002903
BSPP OR FS 90 (TWN)

JIC 37° - HF1P-WS 4SH/R13/R15* - 4SP -12 -16



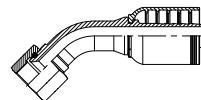
36011005
JIC M



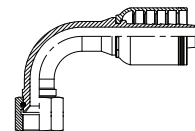
36011003
JIC FS (TWN)



360110H3
JIC FS DH (TWN)

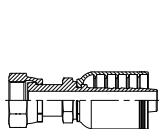


36011403
JIC FS 45 (TWN)

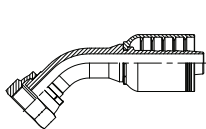


36011903
JIC FS 90 (TWN)

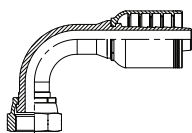
ORFS - HF1P-WS 4SH/R13/R15* - 4SP -12 -16



36031001
ORFS FS (CRN)

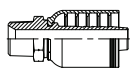


36031401
ORFS FS 45 (CRN)



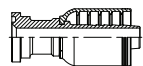
36031901
ORFS FS 90 (CRN)

NPTF - HF1P-WS 4SH/R13/R15* - 4SP -12 -16

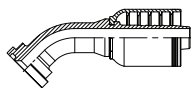


36023005
NPTF M

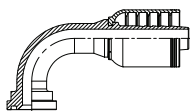
SAE FLANGE - HF1P-WS 4SH/R13/R15* - 4SP -12 -16



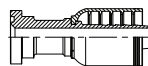
36041000
SAE 61 3K FL



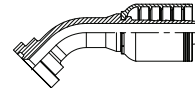
36041400
SAE 61 3K FL



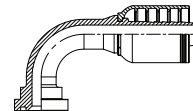
36041900
SAE 61 3K FL 90



36042000
SAE 62 6K FL

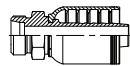


36042400
SAE 62 6K FL 45

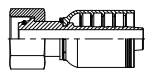


36042900
SAE 62 6K FL 90

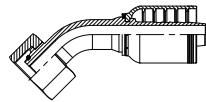
METRIC - HF1P-WS 4SH/R13/R15* - 4SP -12 -16



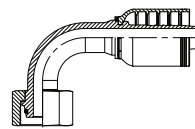
36054005
M24 CES M



36056002
M24 DKOS FS (SON)

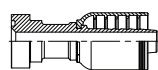


36056402
M24 DKOS FS 45 (SON)

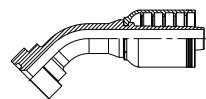


36056902
M24 DKOS FS 90 (SON)

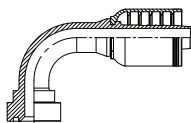
OEM - HF1P-WS 4SH/R13/R15* - 4SP -12 -16



36073000
SCAT 9K FL



36073400
SCAT 9K FL 45



36073900
SCAT 9K FL 90

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	-04 → -16 DN 06 → DN 25 1/4" → 1"	-03 → -32 DN 04 → DN 51 3/16" → 2"	-04 → -16 DN 06 → DN 25 1/4" → 1"		-04 → -08 DN 06 → DN 12 1/4" → 1/2"		
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"	-04 → -16 DN 06 → DN 25 1/4" → 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								

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 → -16 DN 20 → DN 25 3/4" → 1"	-12 → -20 DN 19 → DN 32 3/4" → 1 1/4"	-12 → -16 DN 20 → DN 25 3/4" → 1"	-12 → -16 DN 20 → DN 25 3/4" → 1"					
		-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"					

-20 → -24 DN 32 → DN 38 1 1/4" → 1 1/2"									
-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 → -16 DN 20 → DN 25 3/4" → 1"	-12 → -16 DN 20 → DN 25 3/4" → 1"					
	-12 → -16 DN 20 → DN 25 3/4" → 1"	-12 → -32 DN 19 → DN 51 3/4" → 2"	-12 → -32 DN 19 → DN 51 3/4" → 2"	-12 → -24 DN 19 → DN 38 3/4" → 1 1/2"					

TWO PIECE FITTINGS

HOSE TYPE				THERMOPLASTIC		PTFE
FITTING TYPE	INSERT SERIES	ASSEMBLY TYPE	FERRULE SERIES	EN 855 R7 SAE 100 R7	EN 855 R8 SAE 100 R8	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 → -16 DN 06 → DN 25 1/4" → 1"	-04 → -16 DN 06 → DN 25 1/4" → 1"	
MT	110	NO SKIVE	21010800			
MT	110	NO SKIVE	21010900			-04 → -32 DN 06 → DN 51 1/4" → 2"
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			
Item 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.			



ACCESSORIES - SPILL PLUGS

SPILL PLUGS

FEATURES AND ADVANTAGES

- No Need for System Draining.
- Easy Push and Twist Installation.
- Designed for Non-Pressurized usage.
- Prevents liquid spills and leaks.
- Maintains the cleanliness of the hose and fittings while servicing.
- Our Spill Plugs are designed to fit a wide range of hoses with inside diameters up to 40mm.



Item Code	Plug Size	Diameter Range (in)	Diameter Range (mm)	Quantity/Pack	Color
PHSPLPLGNITMICYL	Micro	3/64 - 1/2	1 - 13	20	Yellow
PHSPLPLGNITMEDYL	Medium	5/16 - 1	8 - 26	10	Yellow
PHSPLPLGNITLARYL	Large	1/2 - 1½	12 - 38	4	Yellow
PHSPLPLGNITMIXYL	Mixed	3/64 - 1½	1 - 38	4 Micro 4 Medium 2 Large	Yellow



Temperature Range: -13°F to +194°F (-25°C to +90°C)

CODE NUMBER	DESCRIPTION	CATEGORY	STANDARD	PAGE NUMBER
PH06	POLYAMIDE TUBE (PA6)	INDUSTRIAL & AUTOMOTIVE TUBING	DIN73378, DIN74324	96
PH10	POLYAMIDE TUBE (TPU)	INDUSTRIAL & AUTOMOTIVE TUBING	DIN73378, DIN74324	96
PH11	POLYAMIDE TUBE (PA11)	INDUSTRIAL & AUTOMOTIVE TUBING	DIN73378, DIN74324	96
PH12	POLYAMIDE TUBE (PA12)	INDUSTRIAL & AUTOMOTIVE TUBING	DIN73378, DIN74324	96
PH13	POLYURETHANE TUBE	INDUSTRIAL & AUTOMOTIVE TUBING	POLYHOSE PROPRIETARY PRODUCT	97
PH14	SPATTER TUBE	INDUSTRIAL & AUTOMOTIVE TUBING	POLYHOSE PROPRIETARY PRODUCT	98
PH17	FEP TUBE	INDUSTRIAL & AUTOMOTIVE TUBING	POLYHOSE PROPRIETARY PRODUCT	102
PH18	PTFE PLAIN TUBE	INDUSTRIAL & AUTOMOTIVE TUBING	POLYHOSE PROPRIETARY PRODUCT	99-101
PH19	PTFE CONVO TUBE	INDUSTRIAL & AUTOMOTIVE TUBING	POLYHOSE PROPRIETARY PRODUCT	99-101
PH20	PTFE CONDUCTIVE PLAIN TUBE	INDUSTRIAL & AUTOMOTIVE TUBING	POLYHOSE PROPRIETARY PRODUCT	99-101
PH140	HI TEMP BRAKE HOSE	AUTOMOBILE & AIR CONDITIONING	POLYHOSE PROPRIETARY PRODUCT	41
PH142	2W BRAIDED HIGH PRESSURE HYDRAULIC HOSE	RUBBER - LOW & MEDIUM PRESSURE HYDRAULIC HOSE	POLYHOSE PROPRIETARY PRODUCT	23
PH146	SAE 100R5 HYDRAULIC HOSE	RUBBER - LOW & MEDIUM PRESSURE HYDRAULIC HOSE	SAE 100R5	24
PH147	SAE 100R6 HYDRAULIC HOSE	RUBBER - LOW & MEDIUM PRESSURE HYDRAULIC HOSE	SAE 100R6	26
PH148	MEDIUM PRESSURE HYDRAULIC HOSE - R7	THERMOPLASTIC - HYDRAULIC HOSE	SAE 100 R7 / DIN EN ISO 3949	66
PH149	HIGH PRESSURE HYDRAULIC HOSE -R8	THERMOPLASTIC - HYDRAULIC HOSE	SAE 100 R8 / DIN EN ISO 3949	66
PH174	BCS 174-2W MINING HYDRAULIC HOSE	MINING HOSE	BCS 174	36
PH175	2W BRAIDED HIGH PRESSURE JACK HOSE	RUBBER - LOW & MEDIUM PRESSURE HYDRAULIC HOSE	POLYHOSE PROPRIETARY PRODUCT	28
PH177	SAE 100R12 / EN 856-R12 / ISO 3862	HIGH PRESSURE SPIRAL HOSE	SAE 100R12 / EN 856-R12	31
PH178	SAE 100R13 / EN 856-R13 / ISO 3862	HIGH PRESSURE SPIRAL HOSE	SAE 100R13 / EN 856-R13	32
PH179	PTFE HOSE - R14	THERMOPLASTIC -PTFE HOSE	SAE J517 - 100R14	103
PH183	FIRE SHEILD HOSE 5000 PSI	RUBBER - HIGH PRESSURE SPIRAL HOSE	POLYHOSE PROPRIETARY PRODUCT	34
PH186	EXCEEDS SAE 100R5 HI-TEMP HYDRAULIC HOSE	RUBBER - LOW & MEDIUM PRESSURE HYDRAULIC HOSE	POLYHOSE PROPRIETARY PRODUCT	25
PH194	LOW TEMPERATURE HOSE - R18	THERMOPLASTIC - HYDRAULIC HOSE	SAE 100 R18 / DIN EN ISO 3949	67
PH204	R6 FRAS MSHA	RUBBER - LOW & MEDIUM PRESSURE HYDRAULIC HOSE	EXCEEDS SAE J517 - 100R6	26
PH213	ISO-BARIC 3K - 3000PSI 1W OR 2W BRAIDED HYDRAULIC HOSE	RUBBER - LOW & MEDIUM PRESSURE HYDRAULIC HOSE	POLYHOSE PROPRIETARY PRODUCT	19
PH214	ISO-BARIC 4K - 4000PSI 1W OR 2W BRAIDED HYDRAULIC HOSE	RUBBER - LOW & MEDIUM PRESSURE HYDRAULIC HOSE	POLYHOSE PROPRIETARY PRODUCT	20
PH215	ISO-BARIC 5K - 5000PSI 2W BRAIDED HYDRAULIC HOSE	RUBBER - LOW & MEDIUM PRESSURE HYDRAULIC HOSE	POLYHOSE PROPRIETARY PRODUCT	21
PH216	ISO-BARIC 6K - 6000PSI 2W BRAIDED HYDRAULIC HOSE	RUBBER - LOW & MEDIUM PRESSURE HYDRAULIC HOSE	POLYHOSE PROPRIETARY PRODUCT	22
PH242	FIRE SUPPRESSION HOSE 1W BRAIDED	RUBBER - INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	43
PH243	EN 853-1ST HYDRAULIC HOSE	RUBBER - LOW & MEDIUM PRESSURE HYDRAULIC HOSE	SAE 100R1A / EN 853-1ST	14
PH244	EN 853-2ST HYDRAULIC HOSE	RUBBER - LOW & MEDIUM PRESSURE HYDRAULIC HOSE	SAE 100R2A / EN 853-2ST	16

CODE NUMBER	DESCRIPTION	CATEGORY	STANDARD	PAGE NUMBER
PH245	SAE 100R4 HYDRAULIC SUCTION HOSE	RUBBER - LOW & MEDIUM PRESSURE HYDRAULIC HOSE	SAE 100R4	24
PH250	SAE 100R3 HYDRAULIC HOSE	RUBBER - LOW & MEDIUM PRESSURE HYDRAULIC HOSE	SAE 100R3	25
PH253	SAE 100R1AT / EN 853-1SN / ISO 1436 HYDRAULIC HOSE	RUBBER - LOW & MEDIUM PRESSURE HYDRAULIC HOSE	SAE 100R1AT / EN 853-1SN	14
PH254	SAE 100R2AT / EN 853-2SN / ISO 1436 HYDRAULIC HOSE	RUBBER - LOW & MEDIUM PRESSURE HYDRAULIC HOSE	SAE 100R2AT / EN 853-2SN	16
PH257	EN 857-1SC / ISO 11237-1 HYDRAULIC HOSE	RUBBER - LOW & MEDIUM PRESSURE HYDRAULIC HOSE	EN 857-1SC	15
PH258	SAE 100R16 / EN 857-2SC / ISO 11237-1 HYDRAULIC HOSE	RUBBER - LOW & MEDIUM PRESSURE HYDRAULIC HOSE	SAE 100R16 / EN 857-2SC	17
PH261	EN 854-1TE HYDRAULIC HOSE	RUBBER - LOW & MEDIUM PRESSURE HYDRAULIC HOSE	EN 854-1TE	27
PH262	EN 854-2TE HYDRAULIC HOSE	RUBBER - LOW & MEDIUM PRESSURE HYDRAULIC HOSE	EN 854-2TE	27
PH263	EN 854-3TE HYDRAULIC HOSE	RUBBER - LOW & MEDIUM PRESSURE HYDRAULIC HOSE	EN 854-3TE	28
PH276	3W BRAIDED HIGH PRESSURE HYDRAULIC HOSE	RUBBER - LOW & MEDIUM PRESSURE HYDRAULIC HOSE	POLYHOSE PROPRIETARY PRODUCT	23
PH277	EN 856-4SP / ISO 3862	HIGH PRESSURE SPIRAL HOSE	EN 856-4SP	33
PH278	EN 856-4SH / ISO 3862	HIGH PRESSURE SPIRAL HOSE	EN 856-4SH	33
PH279	SAE 100R15 / ISO 3862	HIGH PRESSURE SPIRAL HOSE	SAE 100R15	32
PH280	WATER BLAST 30K - 4 WIRE SPIRAL	WATER BLAST HOSE	POLYHOSE PROPRIETARY PRODUCT	34
PH281	WATER BLAST 40K - 4 WIRE SPIRAL	WATER BLAST HOSE	POLYHOSE PROPRIETARY PRODUCT	35
PH282	WATER BLAST 45K - 4 WIRE SPIRAL	WATER BLAST HOSE	POLYHOSE PROPRIETARY PRODUCT	35
PH283	WATER BLAST 50K - 6 WIRE SPIRAL	WATER BLAST HOSE	POLYHOSE PROPRIETARY PRODUCT	36
PH290	PILOT HOSE - 1W BRAIDED HYDRAULIC HOSE	RUBBER - LOW & MEDIUM PRESSURE HYDRAULIC HOSE	POLYHOSE PROPRIETARY PRODUCT	22
PH293	SAE 100R17 1W OR 2W BRAIDED HYDRAULIC HOSE	RUBBER - LOW & MEDIUM PRESSURE HYDRAULIC HOSE	SAE 100R17	18
PH295	SAE 100R19 1W OR 2W BRAIDED HYDRAULIC HOSE	RUBBER - LOW & MEDIUM PRESSURE HYDRAULIC HOSE	SAE J517 - 100R19	18
PH296	EXCEEDS EN 857-1SC 1W COMPACT HYDRAULIC HOSE	RUBBER - LOW & MEDIUM PRESSURE HYDRAULIC HOSE	EXCEEDS EN 857 - 1SC	15
PH297	EXCEEDS SAE100 R16 / EN 857-2SC COMPACT HYDRAULIC HOSE	RUBBER - LOW & MEDIUM PRESSURE HYDRAULIC HOSE	EXCEEDS SAE 100R16 / EN 857 - 2SC	17
PH301	SEWER JET - 2500 PSI	THERMOPLASTIC - INDUSTRIAL - SEWER JETTING HOSE	POLYHOSE PROPRIETARY PRODUCT	70
PH302	SEWER JET - 3000 PSI	THERMOPLASTIC - INDUSTRIAL - SEWER JETTING HOSE	POLYHOSE PROPRIETARY PRODUCT	70
PH303	SEWER JET - 3600 PSI	THERMOPLASTIC - INDUSTRIAL - SEWER JETTING HOSE	POLYHOSE PROPRIETARY PRODUCT	71
PH304	SEWER JET - 4000 PSI	THERMOPLASTIC - INDUSTRIAL - SEWER JETTING HOSE	POLYHOSE PROPRIETARY PRODUCT	71
PH305	SEWER JET - 2800 PSI	THERMOPLASTIC - INDUSTRIAL - SEWER JETTING HOSE	POLYHOSE PROPRIETARY PRODUCT	72
PH306	SEWER JET - 3000 PSI	THERMOPLASTIC - INDUSTRIAL - SEWER JETTING HOSE	POLYHOSE PROPRIETARY PRODUCT	72
PH307	SEWER JET - 3600 PSI	THERMOPLASTIC - INDUSTRIAL - SEWER JETTING HOSE	POLYHOSE PROPRIETARY PRODUCT	73
PH308	SEWER JET - 3600 / 4000 PSI	THERMOPLASTIC - INDUSTRIAL - SEWER JETTING HOSE	POLYHOSE PROPRIETARY PRODUCT	73
PH309	SEWER JET - 3000 PSI	THERMOPLASTIC - INDUSTRIAL - PAINT SPRAY HOSE	POLYHOSE PROPRIETARY PRODUCT	74
PH311	PTFE HOSE - R14 - ELECTRICAL CONDUCTIVE	THERMOPLASTIC -PTFE HOSE	SAE J517 - 100R14	103

CODE NUMBER	DESCRIPTION	CATEGORY	STANDARD	PAGE NUMBER
PH313	PTFE HOSE - R14 - INCREASED WALL	THERMOPLASTIC -PTFE HOSE	SAE J517 - 100R14	104
PH320/ PH321 / PH322	LUBRICATION GREASE HOSE	THERMOPLASTIC - INDUSTRIAL - LUBRICATION HOSE	POLYHOSE PROPRIETARY PRODUCT	82
PH324	ELECTRICALLY CONDUCTIVE CNG HOSE	THERMOPLASTIC - INDUSTRIAL - CNG HOSE	CONFORMS TO NFPA 52	83
PH325	ELECTRICALLY CONDUCTIVE CNG HOSE	THERMOPLASTIC - INDUSTRIAL - CNG HOSE	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	84
PH326 / PH327 / PH328	BEVERAGE DISPENSING HOSE	THERMOPLASTIC - INDUSTRIAL - REFRIGERATION HOSE	POLYHOSE PROPRIETARY PRODUCT	85
PH334	REFRIGERATION HOSE	THERMOPLASTIC - INDUSTRIAL - REFRIGERATION HOSE	POLYHOSE PROPRIETARY PRODUCT	84
PH340	PAINT & AGGRESSIVE CHEMICAL SPRAY - 2W	THERMOPLASTIC - INDUSTRIAL - PAINT SPRAY HOSE	POLYHOSE PROPRIETARY PRODUCT	74
PH341	PAINT & AGGRESSIVE CHEMICAL SPRAY - 1W	THERMOPLASTIC - INDUSTRIAL - PAINT SPRAY HOSE	POLYHOSE PROPRIETARY PRODUCT	75
PH342	PAINT SPRAY - 1W	THERMOPLASTIC - INDUSTRIAL - PAINT SPRAY HOSE	POLYHOSE PROPRIETARY PRODUCT	75
PH343	PAINT SPRAY - 2W	THERMOPLASTIC - INDUSTRIAL - PAINT SPRAY HOSE	POLYHOSE PROPRIETARY PRODUCT	76
PH344 / PH345	HIGH PRESSURE PAINT SPRAY	THERMOPLASTIC - INDUSTRIAL - PAINT SPRAY HOSE	POLYHOSE PROPRIETARY PRODUCT	76
PH346	VERY HIGH PRESSURE PAINT SPRAY	THERMOPLASTIC - INDUSTRIAL - PAINT SPRAY HOSE	POLYHOSE PROPRIETARY PRODUCT	77
PH347	SUPER HIGH PRESSURE PAINT SPRAY	THERMOPLASTIC - INDUSTRIAL - PAINT SPRAY HOSE	POLYHOSE PROPRIETARY PRODUCT	77
PH348	MEDIUM PRESSURE HYDRAULIC HOSE - 1W	THERMOPLASTIC - HYDRAULIC HOSE	POLYHOSE PROPRIETARY PRODUCT	67
PH349	HIGH PRESSURE HYDRAULIC HOSE - 2W	THERMOPLASTIC - HYDRAULIC HOSE	POLYHOSE PROPRIETARY PRODUCT	68
PH350	HIGH PRESSURE JACK HOSE	THERMOPLASTIC - INDUSTRIAL - HIGH PRESSURE HOSE	POLYHOSE PROPRIETARY PRODUCT	79
PH351	VERY HIGH PRESSURE JACK HOSE	THERMOPLASTIC - INDUSTRIAL - HIGH PRESSURE HOSE	POLYHOSE PROPRIETARY PRODUCT	80
PH352	VERY HIGH PRESSURE JACK HOSE - NON CONDUCTIVE	THERMOPLASTIC - INDUSTRIAL - HIGH PRESSURE HOSE	POLYHOSE PROPRIETARY PRODUCT	80
PH353	HIGH PRESSURE HYDRAULIC HOSE - R8	THERMOPLASTIC - HYDRAULIC HOSE	SAE 100 R8 / DIN EN ISO 3949	68
PH354 / PH355	MICRO BORE HOSE	THERMOPLASTIC - INDUSTRIAL - MICRO BORE HOSE	POLYHOSE PROPRIETARY PRODUCT	85
PH358	COMPACT HOSE - R7	THERMOPLASTIC - HYDRAULIC HOSE	POLYHOSE PROPRIETARY PRODUCT	69
PH360	PNEUMATIC TOOL HOSE	THERMOPLASTIC -UHP HOSE	EXCEEDS IS 446:1987 TYPE - 2	118
PH361	SUPER SPRAY HOSE	THERMOPLASTIC -UHP HOSE	POLYHOSE PROPRIETARY PRODUCT	118
PH362	WELDING HOSE	THERMOPLASTIC -UHP HOSE	EXCEEDS IS 444:1987 TYPE - 2	118
PH365	AIR / WATER HOSE	THERMOPLASTIC -UHP HOSE	EXCEEDS IS 446:1980 TYPE - 3 & IS 446 - 1980 TYPE -1	119
PH365L	AIR / WATER HOSE - LIGHT DUTY	THERMOPLASTIC -UHP HOSE	POLYHOSE PROPRIETARY PRODUCT	119
PH367	PVC BRAIDED HOSE	THERMOPLASTIC -UHP HOSE	POLYHOSE PROPRIETARY PRODUCT	120
PH367L	PVC BRAIDED HOSE - LIGHT DUTY	THERMOPLASTIC -UHP HOSE	POLYHOSE PROPRIETARY PRODUCT	120
PH368	MULTIPURPOSE HOSE	THERMOPLASTIC -UHP HOSE	POLYHOSE PROPRIETARY PRODUCT	120
PH370	PTFE -CONVOLUTED HOSE	THERMOPLASTIC -PTFE HOSE	POLYHOSE PROPRIETARY PRODUCT	104
PH371	PTFE - ELECTRICAL CONDUCTIVE CONVOLUTED HOSE	THERMOPLASTIC -PTFE HOSE	POLYHOSE PROPRIETARY PRODUCT	105

PRODUCT INDEX

CODE NUMBER	DESCRIPTION	CATEGORY	STANDARD	PAGE NUMBER
PH372	TAPE WRAPPED CONVOLUTED HOSE	THERMOPLASTIC -PTFE HOSE	POLYHOSE PROPRIETARY PRODUCT	105
PH375	TAPE WRAPPED ELECTRICAL CONDUCTIVE CONVOLUTED HOSE	THERMOPLASTIC -PTFE HOSE	POLYHOSE PROPRIETARY PRODUCT	106
PH381	PTFE HOSE - R14 - 2 WIRE	THERMOPLASTIC -PTFE HOSE	EXCEEDS SAE J517 - 100R14	106
PH382	PTFE - GAS HOSE	THERMOPLASTIC -PTFE HOSE	POLYHOSE PROPRIETARY PRODUCT	107
PH392	PILOT LINE HOSE	THERMOPLASTIC -INDUSTRIAL - PILOT LINE HOSE	POLYHOSE PROPRIETARY PRODUCT	86
PH395	AIR BREATHING HOSE - 6000 PSI	THERMOPLASTIC - INDUSTRIAL -AIR BREATHING HOSE	POLYHOSE PROPRIETARY PRODUCT	81
PH396	AIR BREATHING HOSE - 7000 PSI	THERMOPLASTIC - INDUSTRIAL - AIR BREATHING HOSE	POLYHOSE PROPRIETARY PRODUCT	82
PH440	COMPRESSED AIR HOSE - 40 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	43
PH442	EN 1360 TYPE-3 FUEL DISPENSING HOSE	FUEL HOSE	EN 1360 TYPE-3	37
PH443	EN 1360 TYPE-1 FUEL DISPENSING HOSE	FUEL HOSE	EN 1360 TYPE-1	37
PH471	STEAM HOSE - 1W - 10 BAR	INDUSTRIAL HOSE	IS 10655 / BS 5342	44
PH472	STEAM HOSE - 2W - 20 BAR	INDUSTRIAL HOSE	IS 10655 / BS 5342	44
PH475	STEAM HOSE WITH HELICAL WIRE - 20 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	45
PH503	SAE J2064 TYPE-8 AIR CONDITIONING HOSE	AUTOMOBILE & AIR CONDITIONING	SAE J2064 TYPE-B	41
PH513	PW - 3K - 3000PSI	PRESSURE WASHER HOSE	POLYHOSE PROPRIETARY PRODUCT	29
PH514	PW - 4K - 4000PSI	PRESSURE WASHER HOSE	POLYHOSE PROPRIETARY PRODUCT	29
PH516	PW - 6K - 6000PSI	PRESSURE WASHER HOSE	POLYHOSE PROPRIETARY PRODUCT	30
PH521	SUPER SERVICE HOSE - 1W	PRESSURE WASHER HOSE	POLYHOSE PROPRIETARY PRODUCT	30
PH522	SUPER SERVICE HOSE - 2W	PRESSURE WASHER HOSE	POLYHOSE PROPRIETARY PRODUCT	31
PH531	SAE J30R2 TYPE-2 FUEL HOSE	FUEL HOSE	SAE J30 R2 TYPE-2	38
PH532	SAE J30R2 TYPE-3 FUEL HOSE	FUEL HOSE	SAE J30 R2 TYPE-3	38
PH534	EN 1762 TYPE-D LPG HOSE	FUEL HOSE	EN 1762 TYPE-D	39
PH535	IS 9573 TYPE-1 LPG HOSE	FUEL HOSE	IS 9573 TYPE-1	39
PH536	SAE J30R6 CNG / FUEL HOSE	FUEL HOSE	SAE J30 R6	40
PH540	SAE J1402 TYPE-A AIR BRAKE HOSE	AUTOMOBILE & AIR CONDITIONING	SAE J1402 TYPE-A	42
PH542	FUEL & OIL HOSE	RUBBER - FUEL HOSE	SAE J30R7	40
PH550	RAIL BRAKE HOSE	AUTOMOBILE & AIR CONDITIONING	AAR M618, M619	42
PH555	NON CONDUCTIVE HOSE - 20 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	45
PH566	AIR BREATHING HOSE	INDUSTRIAL HOSE	EN 14593/14594	46
PH601	WATER SUCTION & DISCHARGE - 10 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	46
PH602	WATER DISCHARGE - 10 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	47
PH604	WATER SUCTION & DISCHARGE - 20 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	47

CODE NUMBER	DESCRIPTION	CATEGORY	STANDARD	PAGE NUMBER
PH606	STEEL MILL WATER DELIVERY WITH FIBER GLASS COVER - 10 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	48
PH607	STELL MILL WATER SUCTION & DELIVERY WITH FIBER GLASS COVER - 10 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	48
PH609	THERMOPLASTIC LINED PAINT SUCTION & DISCHARGE HOSE - 10 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	49
PH610	WATER DISCHARGE HOSE - 20 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	49
PH611	OIL / FUEL SUCTION & DISCHARGE HOSE - 10 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	50
PH613	OIL / FUEL DELIVERY HOSE - 10 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	50
PH614	OIL SUCTION & DISCHARGE HOSE - 20 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	51
PH615	OIL SUCTION & DISCHARGE HOSE - 40 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	51
PH617	OIL / FUEL DELIVERY HOSE - 20 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	52
PH620	AIR & WATER DISCHARGE HOSE - 10 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	52
PH621	CEMENT / PLASTER PLACEMENT HOSE - 10 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	53
PH622	HIGH PRESSURE PLASTER SPRAY HOSE - 40 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	53
PH623	BULK MATERIAL SUCTION & DISCHARGE HOSE - 10 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	54
PH624	SHOT BLASTING HOSE - 12 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	54
PH625	BUNKER TRUCK HOT AIR BLOWER HOSE - 10 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	55
PH626	DRY CEMENT DELIVERY / SILO HOSE - 10 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	56
PH628	ABRASIVE BULK MATERIAL SUCTION & DISCHARGE HOSE - 20 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	56
PH629	ABRASIVE BULK MATERIAL DISCHARGE HOSE - 10 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	57
PH630	AIR & WATER DISCHARGE HOSE - 20 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	57
PH631	INDUSTRIAL DUTY AIR HOSE - 20 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	58
PH639	BULK MATERIAL DISCHARGE HOSE - 20 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	58
PH642	XLPE CHEMICAL SUCTION & DISCHARGE HOSE - 17 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	59
PH645	UHMPE CHEMICAL SUCTION & DISCHARGE HOSE - 17 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	59
PH646	EPDM CHEMICAL SUCTION & DISCHARGE HOSE - 17 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	60
PH647	SLURRY & MUD WATER SUCTION & DISCHARGE HOSE - 10 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	60
PH648	UHMWPE SUCTION & DISCHARGE FOOD HOSE - 17 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	61
PH649	CONCRETE DELIVERY HOSE	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	61
PH651	RADIATOR HOSE - 3 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	62
PH657	OIL / FUEL DELIVERY HOSE - 20 BAR FRAS	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	62
PH661	MINE BLAST HANDLING HOSE - 20 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	63
PH663	AIR & WATER DISCHARGE HOSE - 20 BAR FRAS	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	63
PH681	SATURATED STEAM & HOT WATER DELIVERY HOSE - 7 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	64

CODE NUMBER	DESCRIPTION	CATEGORY	STANDARD	PAGE NUMBER
PH684	4-PLY SHOT BLASTING HOSE - 12 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	55
PH687	GENERAL PURPOSE HOSE - 20 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	64
PH690	AVIATION FUEL HOSE	INDUSTRIAL HOSE	EI 1529 TYPE - C/ISO 1825 TYPE - C	64
PH693	FIRE SHEILD HOSE 350 PSI	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	65
PH695	STEAM HOSE 18 BAR	INDUSTRIAL HOSE	POLYHOSE PROPRIETARY PRODUCT	65
PH721/PH722	FLUOROPOLYMER - LOW PRESSURE CONDUCTIVE / NON - CONDUCTIVE	THERMOPLASTIC - INDUSTRIAL - PAINT SPRAY HOSE	POLYHOSE PROPRIETARY PRODUCT	78
PH727/PH728	LOW PRESSURE CONDUCTIVE / NON - CONDUCTIVE	THERMOPLASTIC - INDUSTRIAL - PAINT SPRAY HOSE	POLYHOSE PROPRIETARY PRODUCT	78
PH729/PH730	LOW PRESSURE CONDUCTIVE / NON - CONDUCTIVE	THERMOPLASTIC - INDUSTRIAL - PAINT SPRAY HOSE	POLYHOSE PROPRIETARY PRODUCT	79
PH734	GREASE HOSE - LOW PRESSURE	THERMOPLASTIC - INDUSTRIAL - LUBRICATION HOSE	POLYHOSE PROPRIETARY PRODUCT	83
PH751	COMPACT JACK HOSE	THERMOPLASTIC - INDUSTRIAL - HIGH PRESSURE HOSE	POLYHOSE PROPRIETARY PRODUCT	81
PH758	MOISTURE BLOK HOSE	THERMOPLASTIC - INDUSTRIAL - MOISTURE BLOK HOSE	POLYHOSE PROPRIETARY PRODUCT	86
PH761	HYBRID HOSE - 1W	THERMOPLASTIC - HYDRAULIC HOSE	POLYHOSE PROPRIETARY PRODUCT	69
PH762	HYBRID HOSE - 2W	THERMOPLASTIC - HYDRAULIC HOSE	POLYHOSE PROPRIETARY PRODUCT	69
PH765	MEDIUM PRESSURE FLUORO-COMP HOSE	PTFE HOSE	POLYHOSE PROPRIETARY PRODUCT	107
PH767	FRAS AIR / WATER HOSE	THERMOPLASTIC - PVC HOSE	AS 2660 & AS/NZS 2554 CLASS A	121
PH771	CAB TILT HOSE	THERMOPLASTIC - AUTOMOTIVE HOSE	POLYHOSE PROPRIETARY PRODUCT	87
PH772	CLUTCH HOSE	THERMOPLASTIC - AUTOMOTIVE HOSE	POLYHOSE PROPRIETARY PRODUCT	87
PH775	PTFE - GAS HOSE - ARAMID	THERMOPLASTIC -PTFE HOSE	POLYHOSE PROPRIETARY PRODUCT	108
PH776	PTFE - GAS HOSE - 1W	THERMOPLASTIC -PTFE HOSE	POLYHOSE PROPRIETARY PRODUCT	108
PH777	PTFE - BRAKE FLUID HOSE	THERMOPLASTIC -PTFE HOSE	POLYHOSE PROPRIETARY PRODUCT	108
PH778	PTFE - NITROGEN GAS HOSE	THERMOPLASTIC -PTFE HOSE	POLYHOSE PROPRIETARY PRODUCT	109
PH779		THERMOPLASTIC -PTFE HOSE	POLYHOSE PROPRIETARY PRODUCT	109
PH782	PTFE - CONVOLUTED HOSE WITH HELIX WIRE AND STAINLESS STEEL - STANDARD WALL	THERMOPLASTIC -PTFE HOSE	POLYHOSE PROPRIETARY PRODUCT	110
PH783	PTFE - CONVOLUTED HOSE WITH HELIX WIRE AND POLYPROPYLENE YARN - STANDARD WALL	THERMOPLASTIC -PTFE HOSE	POLYHOSE PROPRIETARY PRODUCT	111
PH785	PTFE - CONVOLUTED HOSE WITH POLYPROPYLENE YARN - STANDARD WALL	THERMOPLASTIC -PTFE HOSE	POLYHOSE PROPRIETARY PRODUCT	111
PH801	POLY - TANKER HOSE - 7 BAR	COMPOSITE HOSE	POLYHOSE PROPRIETARY PRODUCT	122
PH802	POLY - OIL HOSE - 10 BAR	COMPOSITE HOSE	EN 13765 TYPE-2	122
PH803	POLY - AVIATION FUEL HOSE - 7 BAR	COMPOSITE HOSE	EN 13765 TYPE-2	122
PH804	POLY - FUEL HOSE - 7 BAR	COMPOSITE HOSE	EN 13765 TYPE-2	123
PH805	POLY - PTFE CHEMICAL HOSE - 10 BAR	COMPOSITE HOSE	EN 13765 TYPE-2	123
PH806	POLY - CHEMICAL HOSE SS - 10 BAR	COMPOSITE HOSE	EN 13765 TYPE-2	123
PH807	POLY - CHEMICAL HOSE PP - 10 BAR	COMPOSITE HOSE	EN 13765 TYPE-3	124

CODE NUMBER	DESCRIPTION	CATEGORY	STANDARD	PAGE NUMBER
PH808	POLY - CHEMICAL DOCK HOSE - 14 BAR	COMPOSITE HOSE	EN 13765 TYPE-3	124
PH809	POLY - DOCK PTFE HOSE - 14 BAR	COMPOSITE HOSE	EN 13765 TYPE-3	124
PH810	POLY - DOCK PG HOSE - 14 BAR	COMPOSITE HOSE	EN 13765 TYPE-3	125
PH811	POLY - OIL DOCK HOSE - 14 AR	COMPOSITE HOSE	EN 13765 TYPE-3	125
PH902	2 SPIRALS OF HIGH TENSILE STEEL WIRE	THERMOPLASTIC -UHP HOSE	POLYHOSE PROPRIETARY PRODUCT	113
PH902P	2 SPIRALS OF HIGH TENSILE STEEL WIRE, 1 BRAID OF STEEL WIRE	THERMOPLASTIC -UHP HOSE	POLYHOSE PROPRIETARY PRODUCT	113
PH902Q / PH902QL / PH902QZ	4 SPIRALS OF HIGH TENSILE STEEL WIRE, 2 DENSE AND 2 OPEN LAYERS	THERMOPLASTIC -UHP HOSE	POLYHOSE PROPRIETARY PRODUCT	114
PH903	2 SPIRALS OF HIGH TENSILE STEEL WIRE, 1 BRAID OF G.I STEEL WIRE	THERMOPLASTIC -UHP HOSE	POLYHOSE PROPRIETARY PRODUCT	114
PH904	4 SPIRALS OF HIGH TENSILE STEEL WIRE	THERMOPLASTIC -UHP HOSE	POLYHOSE PROPRIETARY PRODUCT	115
PH904R	4 SPIRALS OF HIGH TENSILE STEEL WIRE	THERMOPLASTIC -UHP HOSE	POLYHOSE PROPRIETARY PRODUCT	115
PH906	6 SPIRALS OF HIGH TENSILE STEEL WIRE	THERMOPLASTIC -UHP HOSE	POLYHOSE PROPRIETARY PRODUCT	116
PH906R	6 SPIRALS OF HIGH TENSILE STEEL WIRE	THERMOPLASTIC -UHP HOSE	POLYHOSE PROPRIETARY PRODUCT	116
PH908	8 SPIRALS OF HIGH TENSILE STEEL WIRE	THERMOPLASTIC -UHP HOSE	POLYHOSE PROPRIETARY PRODUCT	117
PH1570	HIGH PRESSURE PTFE HOSE (D-PAC BRAID DESIGN)	THERMOPLASTIC -PTFE HOSE	POLYHOSE PROPRIETARY PRODUCT	110
DUCT HOSE	POLYURETHANE DUCTING	THERMOPLASTIC-INDUSTRIAL	POLYHOSE PROPRIETARY PRODUCT	88-94
COMPOSITE HOSE FITTING				126-128
STAINLESS STEEL FLEXIBLE HOSE				129-139
HYDRAULIC FITTINGS				140-156
ACCESSORIES				157-159

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
LOW & MEDIUM PRESSURE HYDRAULIC HOSE	14	PH243	-	-	853-1ST	-	-	-	-			-	-	✓	-
	16	PH244	-	-	853-2ST	-	-	-	-			-	-	✓	-
	24	PH245	J517-100R4	-	-	-		-	-			-	-	✓	-
	24	PH146	J517-100R5	-	-	-		-	-			-	-	-	-
	26	PH147	J517-100R6	-	-	-		-	-			-	-	-	-
	25	PH250	J717-100R3	-	-	-		-	-			-	-	-	-
	27	PH261	-	-	854-1TE	-	-	-	-			-	-	✓	-
	27	PH262	-	-	854-2TE									✓	
	28	PH263	-	-	854-3TE	-	-	-	-			-		✓	-
	26	PH204	J517-100R6												
	19	PH213				18752-AC								✓	
	20	PH214/224				18752-BC								✓	
	21	PH215/225				18752-CC								✓	
	22	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	30	PH521			857 - 1SC & 1829-2 (Exceeds)		-	-			-	-			-
	31	PH522			857 - 2SC & 1829-2 (Exceeds)										
HIGH PRESSURE SPIRAL HOSE	31	PH177	J517-100R12	-	856-R12	3862	-	-			-	-	✓	✓	-
	32	PH178	J517-100R13	-	856-R13		-	-			-	-	✓	✓	-
	33	PH277	-	-	856-4SP		-	-			-	-	✓	✓	-
	33	PH278	-	-	856-4SH		-	-			-	-	✓	✓	-
	32	PH279	J517-100R15	-	-		-	-			-	-	✓	✓	-
WATER BLAST HOSE	34	PH280			1829-2 (meets)									✓	
	35	PH281			1829-2 (meets)									✓	
	35	PH282			1829-2 (meets)									✓	
	36	PH283			1829-2 (meets)									✓	
MINING HOSE	103	PH179										174-1992		✓	
FUEL HOSE	37	PH442			1360 TYPE-3	-	-	-	-		-	-	-	-	-
	37	PH443			1360 TYPE-1	-	-	-	-		-	-	-	-	-
	38	PH531	J30 R2 TYPE-2	-	-	-	-	-	-		-	-	-	-	-
	38	PH532	J30 R2 TYPE-3	-	-	-	-	-	-		-	-	-	-	-
	39	PH534			1762 TYPE-D	-	-	-	-		-	-	-	-	-
	39	PH535				-	-	9573 TYPE-1	-		-	-	-	-	-
	40	PH536			J30 R6	-	-	15722	-		-	-	-	-	-
	40	PH542	J30 R7			-	-		-		-	-	-	-	-
AUTOMOBILE & AIR CONDITIONING	41	PH503	J2064 TYPE-B	-	-	-	-	-			-	-	-	-	-
	42	PH540	J1402 TYPE-A	-	-	-	-	-			-	-	-	-	✓
	42	PH550									M618, M619				

INTERNATIONAL STANDARD AND HOSE SELECTION MATRIX

CATEGORY	PAGE NUMBER	PART NUMBER	SAE	DIN	EN	ISO	NFPA	IS	BS	AS	AAR	BCS	DNV	MSHA	DOT/FMVSS
RUBBER INDUSTRIAL HOSE	44	PH471				1634		10655	5342						
	44	PH472				1634									
	46	PH566			14593/14594										
POLY - TANKER HOSE	122	PH801		-		-	-	-	-			-	-	-	-
POLY - OIL HOSE	122	PH802		-	13765 TYPE 2	-	-	-	-			-	-	-	-
POLY - AVIATION FUEL HOSE	122	PH803		-	13765 TYPE 2	-	-	-	-			-	-	-	-
POLY - FUEL HOSE	123	PH804		-	13765 TYPE 2	-	-	-	-			-	-	-	-
POLY - PTFE CHEMICAL HOSE	123	PH805		-	13765 TYPE 2	-	-	-	-			-	-	-	-
POLY - CHEMICAL HOSE SS	123	PH806		-	13765 TYPE 2	-	-	-	-			-	-	-	-
POLY - CHEMICAL HOSE PP	124	PH807		-	13765 TYPE 3	-	-	-	-			-	-	-	-
POLY - CHEMICAL DOCK HOSE	124	PH808		-	13765 TYPE 2	-	-	-	-			-	-	-	-
POLY - DOCK PTFE HOSE	124	PH809		-	3765 TYPE 2	-	-	-	-			-	-	-	-
POLY - DOCK PG HOSE	125	PH810		-	13765 TYPE 2	-	-	-	-			-	-	-	-
POLY - OIL DOCK HOSE	125	PH811		-	13765 TYPE 2	-	-	-	-			-	-	-	-
THERMOPLASTIC HYDRAULIC HOSE	66	PH148	SAE 100 R7	DIN EN ISO 3949			-	-	-			-	✓	-	-
THERMOPLASTIC HYDRAULIC HOSE	66	PH149	SAE 100 R8	DIN EN ISO 3949			-	-	-				✓		
THERMOPLASTIC HYDRAULIC HOSE	68	PH353	SAE 100 R8	DIN EN ISO 3949			-	-	-						
THERMOPLASTIC HYDRAULIC HOSE	67	PH194	Exceeds SAE 100 R18	DIN EN ISO 3949			-	-	-						
THERMOPLASTIC HYDRAULIC HOSE	67	PH348	Exceeds SAE 100 R1	-	-	-	-	-	-	-	-	-	-	-	-
THERMOPLASTIC HYDRAULIC HOSE	68	PH349	Exceeds SAE 100 R2	-	-	-	-	-	-	-	-	-	-	-	-
THERMOPLASTIC HYDRAULIC HOSE	69	PH761	Exceeds SAE 100 R1	-	-	-	-	-	-	-	-	-	-	-	-
THERMOPLASTIC HYDRAULIC HOSE	69	PH762	Exceeds SAE 100 R2	-	-	-	-	-	-	-	-	-	-	-	-
CNG HOSE	83	PH324		-	-	-	Conforms to NFPA 52								
CNG HOSE	84	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	96	Polyamide Tubing		"DIN 73378 DIN 74324"	-	-	-	-	-	-	-	-	-	-	✓
PTFE HOSE	103	PH179	SAE J517 - 100R14	-	-	-							✓		
PTFE HOSE	103	PH311	SAE J517 - 100R14	-	-	-									
PTFE HOSE	104	PH313	SAE J517 - 100R14	-	-	-									
PTFE HOSE	106	PH381	Exceeds SAE J517 - 100R14	-	-	-									
PVC HOSE	118	PH360		-	-	-		Exceeds IS 446 1987 Type - 2							
PVC HOSE	118	PH362		-	-	-		Exceeds IS 447 1987 - Type 2							
PVC HOSE	119	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	-	-	-	-
Benzine petrol ether	X	X	E	X	E	E	-	-	-	-
Benzine petrol naphtha	X	X	E	X	E	E	-	-	-	-
Benzoic acid	E	C	X	X			G	-	G	-
Benzoic aldehyde	-	F	-	X	E	E	-	-	-	-
Benzotrichloride	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
Butoxiethanol	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	-	-	-	-	-	-	-
Cadminum 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	-
Creosote	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	-	-	-	-	-
Decahydronaphtalene	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	-	-	-	-
Dihydroxidiethylether	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 sulfoxyde	-	-	-	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	-	-	-	-
Fluorine gas	X	X	X	X	E	E	-	-	-	-
Fluorobenzene	-	-	-	-	E	E	-	-	-	-
Fluosilicic 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
EthyGlycil 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	-	-	-	-
C: CONDITIONAL	E: EXCELLENT	F: FAIR	G: GOOD	X: UNSATISFACTORY						

Fluid or material conveyed	Chloroprene	EPDM	NBR	SBR	UHMWPE	XLPE	Polyamide	Polyester	PTFE	PU
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-pentenediol	-	-	-	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	-	-	-	-
C: CONDITIONAL	E: EXCELLENT	F: FAIR	G: GOOD	X: UNSATISFACTORY						

Fluid or material conveyed	Chloroprene	EPDM	NBR	SBR	UHMWPE	XLPE	Polyamide	Polyester	PTFE	PU
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	-	-	-	-
Orthoxylylene	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	-	-	-	-
C: CONDITIONAL	E: EXCELLENT	F: FAIR	G: GOOD	X: UNSATISFACTORY						

Fluid or material conveyed	Chloroprene	EPDM	NBR	SBR	UHMWPE	XLPE	Polyamide	Polyester	PTFE	PU
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 pmanganate	-	-	-	-	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
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
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	-
C: CONDITIONAL	E: EXCELLENT	F: FAIR	G: GOOD	X: UNSATISFACTORY						

