







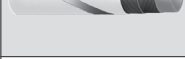



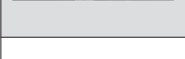






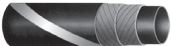









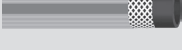



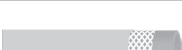
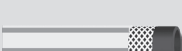
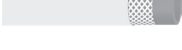







| Page | Group | Product Code | Construction | Normal Usage | Features & Benefits |
|-------|----------------------------|---|---|--|---|
| 6-7 | AIR-WATER & MULTIPURPOSE | IRRF / IRBF Red-Flex Blue-Flex |  | Red or blue weather resistant hose for general industrial applications involving oil or water. | Economical non conductive rubber hose. Blue denotes water conduit, red denotes oil conduit. |
| 8 | | MPH Multipurpose Hose |  | High quality black multi-purpose hose with spiral wound textile reinforcement. | Synthetic black rubber inner and outer. Abrasion and weather resistant. Oil resistant. |
| 9-10 | | IRSA / IRSAB Steel Air |  | Hose with steel wire plies for compressed air at high pressures and temperatures. | Safety yellow cover resistant to ageing, weather and ozone. Blue spiral stripe. |
| 11-12 | | IRYCAW / IRPAW Yellow Air Premium Air Water |  | Safety yellow softwall air compressor hoses for medium to heavy duty applications on industrial work sites | Oil mist resistant tube and cover. 17.2 bar WP (Premium has blue spiral and 20 bar WP) |
| 13 | | IRAW Air Water |  | Softwall discharge hose for water, compressed air, and non-corrosive fluids. | SBR tube / EPDM cover. Oil mist resistant. Black with blue on green spiral stripe. 10 bar WP. |
| 14 | | IRWD Water Delivery |  | Softwall lightweight black hose for industrial and waste waters. | Lightweight and weather resistant. Black text on a green spiral stripe. 5 bar WP. |
| 15 | | IRFAW FRAS Air / Water / Stonedust |  | Softwall hose for arduous air/water applications in underground mining. | Weather resistant black cover with orange spiral. Fire resistant and anti static. |
| 16-17 | | IRWSD / IRFWSH/H Water Suction & Delivery / FRAS |  | Hardwall hose for suction or delivery of water and non-corrosive fluids. IRFWSH/H is the FRAS version | Weather resistant and helix wire support. Grey text on green spiral 10 bar or white text on orange 10/20 bar (FRAS) |
| 18-19 | WASHDOWN & STEAM | IRWDR/W Red or White IRPWD Premium |  | Softwall hot water discharge hoses for washdown in dairies, food processing. | Available with red or white cover. Also suited to outdoor use. Premium suits higher temperatures |
| 20-21 | | IRSS Steel Steam |  | Steel braid steam hose suited to saturated steam up to 18 bar. | Not suited to steam cleaners. Abrasion resistant red cover and red embossed spiral. |
| 22-24 | OIL / FUEL | IROFD / IROFSD Oil / Fuel Delivery / Suction |  | Lightweight hardwall suction and delivery hose for fuels and oils. | Unsuitable for phosphate esters. Abrasion and weather resistant black cover with yellow spiral. |
| 25 | | IRCOSD Oil / Fuel Corrugated S / D |  | Lightweight corrugated suction and delivery hose for fuels and oils with an aromatic content to 30%. | Greater flexibility than IROFSD. Abrasion and weather resistant black cover with red spiral. |
| 28 | | IRPC Premium Chemical |  | Versatile XLPE hose for suction & delivery of a wide range of chemicals. | Incorporates anti-static wire. Green cover with a purple spiral stripe. |
| 29 | FOOD & BEVERAGE / CHEMICAL | IRFF Food Flex |  | Flexible hose for suction & discharge of milk & food stuff from tank truck | Food grade FDA approved rubber, Phthalates free. Light weight & flexible. |
| 30 | | IRBD Beverage Delivery |  | Food grade softwall hose for non-fatty liquids, potable water, beverages etc. | Not suited to fatty foods. Tube meets F.D.A title 21, item 177.2600 & D.M. 21/3173. |
| 31 | | IRPF Premium Food |  | Red hardwall hose for suction and delivery of wine and alcohols at 96%. Odourless and taste free. | Particularly suited to use in breweries and distilleries. |
| 32-33 | | IRLF Liquid Food IRPLF Premium |  | Light weight suction hose for milk and liquid foods, particularly on tank trucks. Premium is Heavy Duty | Good flexibility and ease of handling. Blue hose with white spiral stripe. Premium is higher W.P. |
| 34 | MAT'L HLING | IRHAB Hot Air Blower |  | Transfer of dry bulk materials using hot compressed air to tankers | Blue hardwall hose with red stripe. . |



[Click on Product Code / Description to be Taken to That Page](#)

| Page | Group | Product Code | Construction | Normal Usage | Features & Benefits |
|------|--------------------|--|---|--|---|
| 35 | MATERIALS HANDLING | IRDM Dry Materials |  | Black softwall hose for delivery of dry abrasive materials. | Synthetic rubber inner and outer. Abrasion and weather resistant. Yellow spiral stripe. |
| 36 | | IRSB Sandblast |  | Used for the delivery of sand, cast steelshot and abrasive materials used in sand blasting service | High abrasion resistance and anti-static rubber compound. Available in 2 wall thicknesses. |
| 37 | AUTO | IRDEF Diesel Exhaust Fluid (Adblue®) Hose |  | Softwall hose for transfer of DEF fluid including for use on reels | Anti-static compounds for use in Class 1/Division 1 areas. Sulphur-free EPDM rubber ensuring no contamination of fluid. |
| 38 | | IRR Radiator Hose |  | 2-ply softwall radiator hose for conveying hot water, anti-freeze etc. | Smooth heat & weather resistant black cover with green spiral stripe. |
| 39 | MARINE | IRME Marine Exhaust |  | Hardwall corrugated rubber hose intended for gas exhaust in pleasure boats. | Flame retarding and weather resistant black cover with blue spiral stripe. |

| Product Code & Hose Type | | Working Pressure (bar) | | | | | | | | | | | | | | | | | | Pg. | | |
|--------------------------|------------------------|------------------------|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-------|------|
| | | dia. (ins.) | | ¼ | 5/16 | 3/8 | ½ | 5/8 | ¾ | 1 | 1¼ | 1½ | 1¾ | 2 | 2½ | 3 | 3½ | 4 | 5 | | 6 | 8 |
| | | mm size | | -006 | -008 | -010 | -013 | -016 | -019 | -025 | -032 | -038 | -045 | -051 | -063 | -076 | -090 | -102 | -127 | | -152 | -200 |
| IRRF | Red-Flex | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 6 | |
| IRBF | Blue-Flex | | | | 20 | 20 | 20 | | | | | | | | | | | | | | 7 | |
| MPH | Multipurpose | 35 | 35 | 35 | 35 | 35 | 35 | 35 | | | | | | | | | | | | | 8 | |
| IRSA | Steel Air | | | | 45 | 45 | 45 | 45 | 45 | 45 | | | 45 | 35 | 35 | | 35 | | | | 9 | |
| IRSAB | Steel Air Bull Hose | | | | | | | | | | | | 69 | | | | | | | | 10 | |
| IRYCAW | Yellow Air | | | | 17 | 17 | 17 | | | | | | | | | | | | | | 11 | |
| IRPAW | Premium Air Water | | | | 20 | 20 | 20 | 20 | 20 | | | | 20 | 20 | 20 | | 20 | | | | 12 | |
| IRAW | Air / Water | | | | 10 | 10 | 10 | 10 | 10 | 10 | | | 10 | 10 | 10 | 10 | 10 | | | | 13 | |
| IRWD | Water Delivery | | | | | | | | | | | | | | | | | | | | 14 | |
| IRFAW | FRAS Air / Water | | | | 20 | 20 | 20 | 20 | 20 | | | | 20 | 20 | 20 | | 20 | | | | 15 | |
| IRWSD | Water Suction | | | | | | | 10 | 10 | 10 | | | 10 | 10 | 10 | 10 | 10 | | 10 | | 16 | |
| IRFWS | FRAS Water Suction | | | | | | | | | | | | 10 | | 10 | | 10 | | 10 | | 17 | |
| IRFWSHD | FRAS Water Suction | | | | | | | 20 | | | | | 20 | 20 | 20 | | 20 | | 20 | | 17 | |
| IRWDR/W | Washdown Red / White | | | | 10 | 10 | 10 | | | | | | | | | | | | | | 18 | |
| IRPWD | Premium Washdown | | | | 10 | 10 | | | | | | | | | | | | | | | 19 | |
| IRSS | Steel Steam 270 | | | | 18 | 18 | 18 | 18 | 18 | | | | | | | | | | | | 21 | |
| IROFD | Oil Fuel Hoses | | | | | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | | 10 | 10 | | | 22/24 | |
| IRCOSD | Corrugated Oil Suction | | | | | 5 | | | 5 | | | | | | | | | | | | 25 | |
| IRPC | Premium Chemical | | | | | 10 | 10 | 10 | 10 | | | | 10 | 10 | 10 | | 10 | | | | 26 | |
| IRFF | Food Flex | | | | | | 6 | 6 | 6 | | | | 6 | 6 | 6 | | 6 | | | | 29 | |
| IRBD | Beverage Delivery | | | | | | 10 | 10 | 10 | 10 | | | 10 | 10 | 10 | | 10 | | | | 30 | |
| IRPF | Premium Food | | | | | | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | | 10 | | | | 31 | |
| IRLF | Liquid Food | | | | | | 6 | 6 | 6 | | | | 6 | 6 | 6 | | | | | | 32 | |
| IRPLF | Premium Liquid Food | | | | | | | | | | | | 10 | 10 | | | | | | | 33 | |
| IRHAB | Hot Air Blower | | | | | | | | | | | | | | 10 | | 10 | | | | 34 | |
| IRDM | Dry Materials | | | | | | | | | | | | | | 6 | 6 | 6 | 6 | | | 35 | |
| IRSB | Sand Blast | | | | | | | | 10 | | | | | | | | | | | | 36 | |
| IRDEF | DEF (Adblue®) | 15 | | | 20 | 20 | 20 | 20 | | | | | | | | | | | | | 37 | |
| IRR | Radiator Hose | | | | | | | | | | | | | | | | | | | | 38 | |
| IRME | Marine Exhaust | | | | | | | | | | | | | | | | | | | | 39 | |

| Page | Group | Product Code | Construction | Normal Usage | Features & Benefits | |
|-------|-------------------------|---|---|--|--|---|
| 41-51 | TEFLON SPECIAL | CT Range Stainless St. Hose Heat Sleeves, BOP |  | Stainless steel hoses with a variety of constructional details to suit the intended applications | Manufactured assemblies to ISO 10380 using end fittings to ISO 10806. BOP hose to API 16D, Lloyds OD1000/499 | |
| 52 | TEFLON SPECIAL | STH Teflon Hose |  | Medium pressure steam laundry equipment, plastic moulding and air compressor discharge. | Teflon liner / SS braid allow high temperature and chemical capability. | |
| 53 | PVC PRESSURE | IPAF Pirtek-Flex Air |  | General purpose blue air hose with cold weather formulation to maintain flexibility in cold conditions. | Oil mist resistance. Conforms to AS/NZ 2554 Class B | |
| 54 | | IPCF Pirtek-Flex Clear |  | Transparent PVC hose with red and blue trace for use with air, water, food and petroleum transfer. | Conforms to AS2070 | |
| 55 | | IPAW Pirtek-Flex Air Water |  | General purpose air and water hose with optimum flexibility, resilience & kink resistance | Oil mist resistant. Conforms to AS/NZ 2554 Class B | |
| 56 | | "IPFAW FRAS Air Water" |  | General purpose hose used in underground mining for air/water applications. | "Fire Resistant, Anti-Static Conforms to AS2660 A & AS/NZS2554 A" | |
| 57 | | IPAG Agricultural Spray |  | Premium hose designed for high pressure weedicide and pesticide applications | Excellent flexibility | |
| 58 | | IPDP Drum Pump |  | Petrol and oil resistant hose for dispensing fuels and oils | Features excellent flexibility at low temperatures | |
| 59 | | IPPR Petrol Resistant Anti-Static |  | Petrol and oil resistant hose for dispensing fuels | All sizes incorporates static dissipation copper wires | |
| 60 | | IPAB Divers Air Breathing |  | Approved braided divers air breathing hose for professional and sports diving | Also suitable for breathing apparatus for spray booths and sand blasting | |
| 61 | | IPEB Estate Blueline |  | Highly flexible premium hose for watering parks and gardens | Kink, burst and UV light resistant | |
| 62 | | IPHW Hot Wash White |  | Highest grade hose for hot washdown use in the food industry | Thermoplastic rubber smooth outer cover is highly resistant to lactic acid and fats | |
| 63 | | IPRW Reclaimed Water |  | A hose specially formulated for use with reclaimed water. Lilac cover complies with international standards | Has "RECLAIMED WATER NOT FOR DRINKING" printed along its length for added safety | |
| 65 | | IPCVT Clear Vinyl Tube |  | A non toxic clear tube suitable for the low pressure transfer of food and beverages and petrochemical transfer | Conforms to AS2070 | |
| 65-66 | | PVC SUCTION | IPHG / IPHB Helix-Grey Helix-Blue |  | A durable PVC suction hose suited to the rigours of industry. Blue for diesel / mineral oil, chemicals, waste sewerage | UV stabilised |
| 67 | | | IPSF Pirtek-Flex Spring |  | Steel spiral embedded in a clear transparent PVC hose. Ideal for vacuum pumps, air seeders, etc. | Food grade formulation suits food and drink transfer, vacuum tankers and shipyards. |
| 68 | IPWB Wine & Beverage | |  | Designed for the conveyance of wines and spirits up to 28% alcohol | The heavy wall design makes it also ideal for the canning and food packaging industries | |
| 70-71 | LAYFLAT | IPBL / IPRL Layflat Blue Layflat Red |  | Heavy & light duty layflat hoses for the discharge of water or other liquid eg construction site dewatering | The lightweight blue version is a 1-piece design, allowing safe piercing for trickle irrigation applications | |

[Click on Product Code / Description to be Taken to That Page](#)

| Page | Group | Product Code | Construction | Normal Usage | Features & Benefits |
|-------|-----------------|---|--------------|---|---|
| 73-75 | COMPOSITE HOSES | CH901,982,1000,1001 CH1003 Fuel Codes | | Specially designed for the suction and delivery of fuels and oils in tankers, ship to shore and production equipment | Selected polypropylene fabrics in conjunction with galvanised steel wire reinforcement |
| 75 | | CHVRH Vapour Recovery | | For the collection of hydrocarbon vapours within the petroleum industry | Selected polypropylene fabrics in conjunction with galvanised steel wire reinforcement |
| 76 | | CHHP Hot Products | | Specially designed for the suction and delivery of hydrocarbon products at elevated temperatures eg tar & bitumen | Temperatures up to 180°C |
| 76-77 | | CHAV Aviation Hoses | | Transfer hoses for the suction and delivery of aviation fuels | Selected polypropylene fabrics in conjunction with galvanised or stainless steel wire reinforcement |
| 78-81 | | CH951,952,969,970 CH971, CH998 Chemical Hoses | | Suitable for the suction and delivery of chemicals where the outside of the assembly is not in contact with the media | Refer to Pirtek for specific applications. Static electricity implications in some cases |
| 80 | | CH940 Cryogenics Hose | | Suitable for the suction and delivery of gases, organic solvents, and alkalies | Refer to Pirtek for specific applications |

| Product Code & Hose Type | | Working Pressure (bar) | | | | | | | | | | | | | | | | Pg. | | | | |
|--------------------------|---------------------------|--|----|------|------|------|------|-------|------|------|------|------|------|------|------|------|------|-----|------|------|------|-------|
| | | dia. (ins.) | | ¼ | 5/16 | 3/8 | ½ | 5/8 | ¾ | 1 | 1¼ | 1½ | 1¾ | 2 | 2½ | 3 | 3½ | | 4 | 5 | 6 | 8 |
| | | mm size | | -006 | -008 | -010 | -013 | -016 | -019 | -025 | -032 | -038 | -045 | -051 | -063 | -076 | -090 | | -102 | -127 | -152 | -200 |
| METALLIC | Stainless Steel | Sizes from 1/4" to 8" with WP dependent on braid configuration | | | | | | | | | | | | | | | | 39 | | | | |
| PFA | BOP / Control Fire Armour | | | | | | | | • | • | • | | • | | | | | | | | | 49 |
| STH | Teflon | Refer to catalogue page 50 | | | | | | | | | | | | | | | | 50 | | | | |
| IPAF | Pirtek-Flex Air | 20 | 20 | 20 | 20 | | 16 | | | | | | | | | | | | | | | 51 |
| IPCF | Pirtek-Flex Clear | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 12 | 14 | | | 9 | | | | | | | | | 52 |
| IPAW | Pirtek-Flex Air / Water | 20 | | 20 | 20 | | 16 | 16 | 16 | 16 | | | | | | | | | | | | 53 |
| IPFAW | FRAS Air/Water | | | | 20 | | 20 | 20/35 | 20 | 20 | | | 20 | | | | | | | | | 54 |
| IPAG | Agricultural Spray | | 21 | 21 | 21 | | 21 | 21 | 21 | 21 | | | | | | | | | | | | 55 |
| IPDP | Drum Pump | | | | | | 10 | 10 | | | | | | | | | | | | | | 56 |
| IPPR | Petrol Resistant | | | | | | | 13 | 12 | 10 | | | | | | | | | | | | 57 |
| IPAB | Air Breathing / Divers | | 16 | 25 | | | | | | | | | | | | | | | | | | 58 |
| IPEB | Estate Blueline | | | | 10 | | 10 | 10 | 10 | 10 | | | | | | | | | | | | 59 |
| IPHW | Hot-Wash White | | | | 20 | | 18 | | | | | | | | | | | | | | | 60 |
| IPRW | Reclaimed Water | | | | | | 10 | 10 | | | | | | | | | | | | | | 61 |
| IPCVT | Clear Vinyl Tube | 6 | 5 | 4 | 5 | 4 | 4 | 4 | 3 | 3 | | | 3 | | | | | | | | | 62 |
| IPHG/IPHB | Helix Grey / Blue | | | | | | | • | • | • | | | • | • | • | | • | | | | | 63-64 |
| IPSF | Spring Flex | | | | 15 | 11 | 10 | 8 | 7 | 6 | | | 4 | 3 | 3 | | | | | | | 65 |
| IPWB | Wine and Beverage | | | | | | | 7 | 7 | 6 | | | 5 | 5 | 5 | | 4 | 4 | 3.5 | | | 66 |
| IPBL/IPRL | Layflat Blue / Red | | | | | | | | | • | | • | • | • | | • | • | • | | | | 68-69 |
| CH901-1003 | Fuel Hoses | | | | | | | • | • | • | | | • | • | • | | • | | | | | 71-73 |
| CHVRH | Vapour Recovery Hose | | | | | | | | | | | | | | | | 4 | | | | | 73 |
| CHHP | Hot Products Hose | | | | | | | 10 | 10 | 10 | | | 10 | 10 | 10 | | 10 | | | | | 74 |
| CHAV | Aviation Hoses | | | | | | | | | • | | | • | • | • | | • | | | | | 74-89 |
| CH951-998 | Chemical Hoses | | | | | | | • | • | • | | | • | • | • | | • | | | | | 76-79 |
| CH940 | Cryogenics Hose | | | | | | | 25 | 25 | 25 | | | 25 | 25 | 25 | | 21 | | | | | 78 |

• Refer to product pages for ratings

WARNING

SAFETY PRECAUTIONS FOR THE USE OF PIRTEK® HOSE ASSEMBLIES

Your Personal Safety may directly or indirectly be compromised if the hose assembly is abused.

By following the INSTRUCTIONS below, the more common abuses of hose and hose assemblies can be avoided.

INSPECT the hose assembly before each use.

REPLACE the hose assembly immediately if:

- A. The cover appears abnormal
- B. You believe it may be abnormal
- C. There is any fluid leakage
- D. The fittings are damaged
- E. The hose is damaged
- F. Reinforcement is visible through the cover

DO NOT EXCEED the maximum working pressure of the hose.

DO NOT KINK the hose assembly.

DO NOT BEND beyond the specified minimum bend radius of the hose.

DO NOT EXPOSE to temperatures beyond the published maximums for the hose or fluid being conveyed.

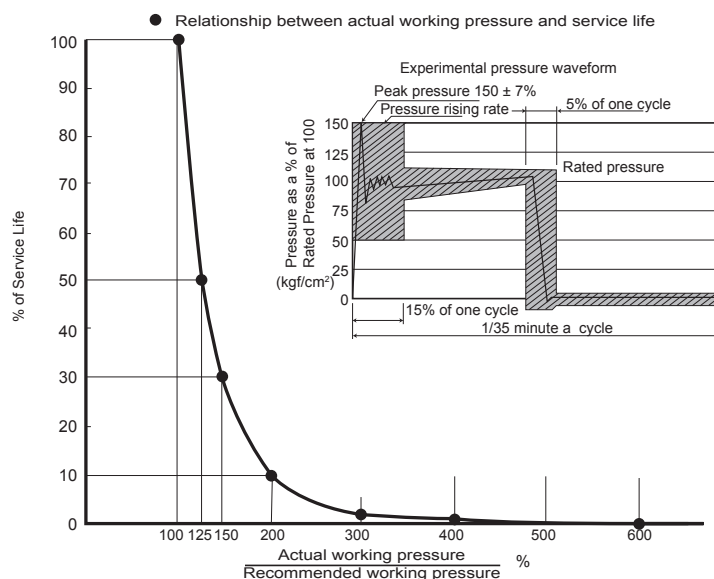
DO NOT USE AS A STRENGTH MEMBER for pulling or lifting equipment. Use support cables for vertical installations.

USE ONLY WITH COMPATIBLE FLUIDS as outlined in the Chemical Compatibility Charts or as specifically approved in writing by Pirtek Fluid Systems.

PIN PRICK THE COVER of hoses used for compressed air above 17 bar or 250 psi to allow the safe escape of air that permeates through the liner and reinforcement (except STH, R5HT and 3130). The maximum working pressure and temperature must also be reduced by 30%.

Use only Pirtek HOSE AND FITTINGS COMBINATIONS as designated in their current assembly guidelines. Use only Pirtek PROCEDURES and ASSEMBLY EQUIPMENT as published and maintained in their M.A.P.S. documentation.

- The use of conventional wire reinforced rubber hose often entails the pressure fluctuations of fluid.
- The factors concerned with such pressure fluctuations are generally classified into two: those stemming from the pump itself, and the others ascribable to external impacts imparted to the hose via the operating demands. The latter are considered to have the greater effect on the service life of the hose.
- External impulse pressure is estimated to be 150% of the set pressure (actual working pressure) of a relief valve, and sometimes exceeds 300%.



IRRF RED-FLEX



Construction

Inner Tube:

Oil resistant Class A NBR (Nitrile) rubber

Reinforcement:

High strength polyester yarn

Cover:

NBR/PVC Blend. Red non-conductive, ozone and weather resistant cover. Resists ultra violet, mineral oils and grease

Applications

Hydraulic fluid, fuels, oil, air, water, light chemicals, pH above 5, gasoline, petrol, diesel, light oil, petroleum oil products. Any type of oil and fuel up to aromatic content 50%. OK with Petrol 91/95/98, E10, E85 & Diesel Fuel

Temperature Range:

Mineral oil -20°C up to +95°C
External ambient -20°C up to 70°C
Water 0°C up to +50°C (continuous) +70°C (temp)
Air -20°C up to +50°C

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

AS/NZS 2554 Class B for air.

Conductivity:

Outer cover non-conductive properties: 1 Megaohm per centimetre of hose length at 1000 V DC.

Hose Tails:

Pirtek 'P' Series all sizes, Hose Clamp not required and could possibly damage hose. Pirtek 'T' Series option on 6, 8, 10 and 13 mm sizes

Lay line example: White text on red background. Note comment above

PIRTEK RED-FLEX MULTI-PURPOSE NON CONDUCTIVE RMA CLASS A OIL RESISTANT TUBE IRRF-19 19 mm 300 PSI (20 BAR)

| Product Code | Nominal ID | | OD mm | Pressure bar | | Weight Kg/m |
|--------------|------------|-------|----------|--------------|-----------|----------------|
| | mm | in | | working | min burst | |
| IRRF-06 | 6.0 | 1/4 | 13.0 | 20 | 80 | 0.17 |
| IRRF-08 | 8.0 | 5/16 | 15.0 | 20 | 80 | 0.20 |
| IRRF-10 | 10.0 | 3/8 | 17.0 | 20 | 80 | 0.24 |
| IRRF-13 | 13.0 | 1/2 | 21.1 | 20 | 80 | 0.29 |
| IRRF-16 | 16.0 | 5/8 | 26.0 | 20 | 80 | 0.53 |
| IRRF-19 | 19.0 | 3/4 | 29.0 | 20 | 80 | 0.68 |
| IRRF-25 | 25.4 | 1 | 36.0 | 20 | 80 | 0.85 |
| IRRF-32 | 32.0 | 1.1/4 | 44.0 | 20 | 60 | 1.15 |
| IRRF-38 | 38.0 | 1.1/2 | 54.0 | 20 | 60 | 1.72 |
| IRRF-50 | 50.0 | 2 | 66.0 | 20 | 60 | 2.34 |

* **Note:** Minimum Bend Radius. For Industrial Rubber Hoses that don't show a bend radius, as an approximate guide multiply 8 times the ID for delivery hoses and 7 times ID for suction hose with a wire helix.

IRBF BLUE-FLEX



Construction

Inner Tube:

Oil resistant Class A NBR (Nitrile) rubber

Reinforcement:

High strength polyester yarn

Cover:

NBR/PVC Blend. Blue ozone and weather resistant cover. Resists ultra violet, mineral oils and grease

Applications

Hydraulic fluid, fuels, oil, air, water, light chemicals, pH above 5, gasoline, petrol, diesel, light oil, petroleum oil products. Any type of oil and fuel up to aromatic content 50%. OK with Petrol 91/95/98, E10, E85 & Diesel Fuel

Temperature Range:

Mineral oil -20°C up to +95°C
External ambient -20°C up to 70°C
Water 0°C up to +50°C (continuous) +70°C (temp)
Air -20°C up to +50°C

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

AS/NZS 2554 Class B for air.

Conductivity:

Non conductive properties: 1 Megaohm per centimetre of hose length at 1000 V DC.

Hose Tails:

Pirtek 'P' Series all sizes, Hose Clamp not required and could possibly damage hose. Pirtek 'T' Series option on 13 mm size

Lay line example: Yellow text on blue background. Note comment above

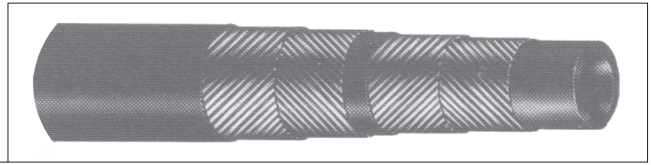
PIRTEK BLUE-FLEX MULTI-PURPOSE NON CONDUCTIVE RMA CLASS A OIL RESISTANT TUBE AND COVER IRBF-19 19 mm 300 PSI (20 BAR)

| Product Code | Nominal ID | | OD mm | Pressure bar | | Weight Kg/m |
|--------------|------------|-----|----------|--------------|-----------|----------------|
| | mm | in | | working | min burst | |
| IRBF-13 | 13.0 | 1/2 | 20.0 | 20 | 80 | 0.29 |
| IRBF-19 | 19.0 | 3/4 | 30.0 | 20 | 80 | 0.68 |
| IRBF-25 | 25.4 | 1 | 36.0 | 20 | 80 | 0.85 |

* **Note:** Minimum Bend Radius. For Industrial Rubber Hoses that don't show a bend radius, as an approximate guide multiply 8 times the ID for delivery hoses and 7 times ID for suction hose with a wire helix.

MPH

MULTIPURPOSE HOSE



Construction

Inner Tube:

Seamless NBR (Nitrile) rubber, oil resistant

Reinforcement:

Two or four spirals of textile fibre

Cover:

Black CR (Neoprene) rubber resistant to abrasion, oils, ozone and weathering

Applications

Low pressure hose for fluids such as mineral and vegetable oils, aqueous emulsions, water, air and inert gases.

Temperature Range:

Mineral oil -40°C up to +100°C
External ambient -40°C up to 70°C
Water 0°C up to +50°C (continuous) +70°C (temp)
Air -40°C up to +50°C

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

Exceeds SAE J 517 (100 R6)
Exceeds EN 854 R6
JIS B 8360

Impulse Testing:

400 000 cycles of JIS waveform @ 133% of working pressure (hose only) all sizes

Hose Tails:

Pirtek 'P' Series all sizes, Hose Clamp not required and could possibly damage hose.
Pirtek 'T' Series option on 3/8, 1/2, 5/8 sizes

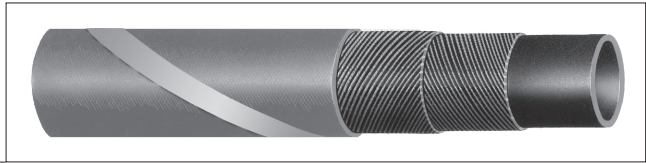
Lay line example: Green text on black background. Note comment above

PIRTEK MULTI MPH-12 (3/4") 35BAR W.P. (500 PSI)

| Product Code | Nominal ID | | Reinforcement | OD | Pressure bar * | | Min bend radius | Weight |
|--------------|------------|------|-----------------|------|----------------|-----------|-----------------|--------|
| | mm | in | | | working | min burst | | |
| MPH-04 | 6.3 | 1/4 | 4 fabric spiral | 14.0 | 35 * | 140 | 55 | 0.15 |
| MPH-05 | 8.0 | 5/16 | 4 fabric spiral | 15.8 | 35 * | 140 | 60 | 0.19 |
| MPH-06 | 9.5 | 3/8 | 4 fabric spiral | 17.4 | 35 * | 140 | 65 | 0.21 |
| MPH-08 | 12.7 | 1/2 | 4 fabric spiral | 21.3 | 35 * | 140 | 90 | 0.28 |
| MPH-10 | 15.9 | 5/8 | 2 fabric spiral | 23.5 | 35 * | 140 | 110 | 0.30 |
| MPH-12 | 19.0 | 3/4 | 4 fabric spiral | 31.4 | 35 * | 140 | 135 | 0.59 |
| MPH-16 | 25.4 | 1 | 4 fabric spiral | 37.5 | 35 * | 140 | 170 | 0.74 |

* Note: Working Pressure for air use is 20 bar

IRSA STEEL AIR



Construction

Inner Tube:

Black smooth SBR rubber compound, oil mist resistance.

Reinforcement:

2 plies of steel wire cord

Cover:

Yellow smooth (wrapped finish) long lasting EPDM rubber compound. Good weathering and ozone resistance.

Applications

Hose with steel wire plies for compressed air at high pressure and temperature in severe working conditions such as quarries, mining and heavy duty industrial applications

Temperature Range:

-30°C up to +70°C

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information. Pressure rating as per table

Reference Specifications

Hose Tails:

Industrial fittings
High pressure 4 bolt air clamps
'J' Series for some sizes

Note: IRSA is not recommended for vertical drill rig applications, use IRSAB

Lay line example: Yellow text on blue background. Note comment above

PIRTEK STEEL AIR IRSA 45 BAR (675 psi) WORK. PRESS.

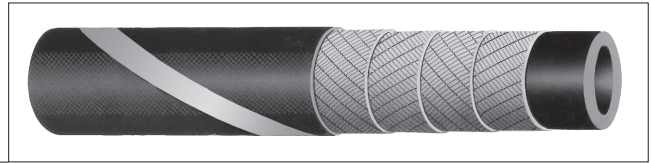
| Product Code | Nominal ID | | OD mm | Pressure bar | | Weight Kg/m |
|--------------|------------|-------|----------|--------------|-----------|----------------|
| | mm | in | | working | min burst | |
| IRSA-013 † | 13 | 1/2 | 25.5 | 45 | 135 | 0.57 |
| IRSA-019 † | 19 | 3/4 | 32.0 | 45 | 135 | 0.75 |
| IRSA-025 | 25 | 1 | 38.0 | 45 | 135 | 0.98 |
| IRSA-032 † | 32 | 1.1/4 | 46.0 | 45 | 135 | 1.33 |
| IRSA-038 | 38 | 1.1/2 | 54.0 | 45 | 135 | 1.81 |
| IRSA-051 | 51 | 2 | 66.0 | 45 | 135 | 2.17 |
| IRSA-063 | 63.5 | 2.1/2 | 80.0 | 35 | 105 | 2.85 |
| IRSA-076 | 76 | 3 | 96.5 | 35 | 105 | 4.67 |
| IRSA-102 | 102 | 4 | 122.0 | 35 | 105 | 6.00 |

* **Note:** Minimum Bend Radius. For Industrial Rubber Hoses that don't show a bend radius, as an approximate guide multiply 8 times the ID for delivery hoses and 7 times ID for suction hose with a wire helix.

† Available to Order

IRSAB

SUPER AIR BULL HOSE



Construction

Inner Tube:

Black smooth SBR rubber compound oil mist resistant

Reinforcement:

4 plies of steel wire cord

Cover:

Blue smooth (wrapped finish) synthetic rubber MSHA flame retardant and abrasion and oil resistant. Cover pin-pricked.

Applications

Hose with steel wire plies for compressed air in severe working conditions such as quarries, drill rigs, mining and heavy duty industrial applications. Heavier construction and higher temperature capability to suit bull hose applications

Temperature Range:

-30°C up to +135°C (peaks to 150°C)

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information. Pressure rating as per table

Reference Specifications

Complies to MSHA IC-100/3

Hose Tails:

Industrial fittings
High pressure 4 bolt air clamps
'J' Series for some sizes

Lay line example: Blue Cover / Yellow Layline. Note comment above

PIRTEK SUPER AIR BULL IRSAB 69 BAR (1000 psi) W.P. MSHA

| Product Code | Nominal ID | | OD mm | Pressure bar | | Min.Bend Radius mm | Weight Kg/m |
|--------------|------------|-------|----------|--------------|-----------|--------------------------|----------------|
| | mm | in | | working | min burst | | |
| IRSAB-025 † | 25 | 1 | 38 | 69 | 280 | 175 | 1.13 |
| IRSAB-032 † | 32 | 1.1/4 | 45 | 69 | 280 | 224 | 1.38 |
| IRSAB-038 | 38 | 1.1/2 | 58 | 69 | 280 | 266 | 2.57 |
| IRSAB-051 | 51 | 2 | 69.5 | 69 | 280 | 357 | 3.29 |
| IRSAB-063 | 63.5 | 2.1/2 | 84.5 | 69 | 280 | 445 | 4.67 |
| IRSAB-076 | 76 | 3 | 98 | 69 | 280 | 532 | 5.75 |
| IRSAB-102 † | 102 | 4 | 129 | 69 | 280 | 714 | 9.83 |

† Available to order

IRYCAW

YELLOW AIR - WATER HOSE



Construction

Inner Tube:

Blended NR, SBR, and NBR rubber compound, oil mist resistant non-conductive.

Reinforcement:

High strength polyester yarn

Cover:

Safety yellow smooth weather and ozone resistant synthetic. Oil mist resistant

Applications

Economical yellow softwall air compressor hose designed to handle water and compressed air on industrial work sites

Temperature Range:

-30°C up to +80°C

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

20 metre coils in all sizes

100 metre coils in 3/4" and 1" sizes

Hose Tails:

Industrial universal fittings

High pressure 2 and 4 bolt clamps

Lay line example: Black text on yellow background. Note comment above

PIRTEK YELLOW COMPRESSED AIR - WATER HOSE IRYCAW-025 25 mm 290 psi (20 BAR) WORK PRESS

| Product Code | Nominal ID | | OD mm | Pressure bar | | Weight Kg/m |
|--------------|------------|-----|----------|--------------|-----------|----------------|
| | mm | in | | working | min burst | |
| IRYCAW-013 | 13 | 1/2 | 22 | 20 | 60 | 0.36 |
| IRYCAW-019 | 19 | 3/4 | 30 | 20 | 60 | 0.60 |
| IRYCAW-025 | 25 | 1 | 36 | 20 | 60 | 0.75 |

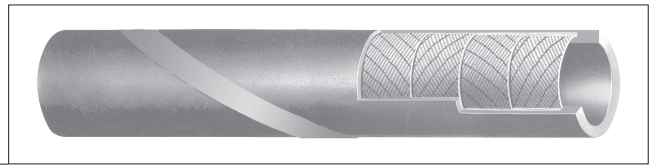
* **Note:** Minimum Bend Radius. For Industrial Rubber Hoses that don't show a bend radius, as an approximate guide multiply 8 times the ID for delivery hoses and 7 times ID for suction hose with a wire helix.

*Also available 20mtr fitted assemblies, 3/4" with Type A claw couplings Part Number IRYCAW-019ASS



IRPAW

PREMIUM AIR WATER



Construction

Inner Tube:

Black smooth SBR rubber compound, oil mist resistant.

Reinforcement:

High strength synthetic cord

Cover:

Safety yellow smooth (wrapped finish) long lasting EPDM rubber compound. Resistant to ageing, weather and ozone

Applications

Softwall air compressor hose for medium to heavy duty applications. Suited to road construction and mine sites

Temperature Range:

-30°C up to +70°C

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

Hose Tails:

Industrial fittings
High pressure 2 and 4 bolt clamps

Lay line example: Yellow text on blue background. Note comment above

PIRTEK PREMIUM AIR / WATER IRPAW 20 BAR (300 psi) WORK.PRESS.

| Product Code | Nominal ID | | OD mm | Pressure bar | | Weight Kg/m |
|--------------|------------|-------|----------|--------------|-----------|----------------|
| | mm | in | | working | min burst | |
| IRPAW-013 † | 13 | 1/2 | 22 | 20 | 60 | 0.32 |
| IRPAW-019 † | 19 | 3/4 | 35 | 20 | 60 | 0.86 |
| IRPAW-025 | 25 | 1 | 38 | 20 | 60 | 0.86 |
| IRPAW-032 | 32 | 1.1/4 | 44 | 20 | 60 | 0.94 |
| IRPAW-038 | 38 | 1.1/2 | 54 | 20 | 60 | 1.47 |
| IRPAW-051 | 51 | 2 | 68 | 20 | 60 | 2.00 |
| IRPAW-063 | 63.5 | 2.1/2 | 80 | 20 | 60 | 2.40 |
| IRPAW-076 | 76 | 3 | 95 | 20 | 60 | 3.17 |
| IRPAW-102 † | 102 | 4 | 122 | 20 | 60 | 4.39 |

* **Note:** Minimum Bend Radius. For Industrial Rubber Hoses that don't show a bend radius, as an approximate guide multiply 8 times the ID for delivery hoses and 7 times ID for suction hose with a wire helix.

† Limited stock available



Construction

Inner Tube:

Black smooth SBR rubber compound

Reinforcement:

High strength synthetic cord

Cover:

Black smooth (wrapped finish) EPDM rubber compound. Resistant to ageing, weather and ozone

Applications

Softwall discharge hose for water, compressed air and non corrosive fluids. Widely used in industry, construction sites, agriculture etc

Temperature Range:

-35°C up to +70°C

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

Hose Tails:

Kamloks
Bauer couplings
Industrial fittings

Lay line example: Blue text on green background. Note comment above

PIRTEK AIR / WATER IRAW 10 bar (150 psi) WORK. PRESS

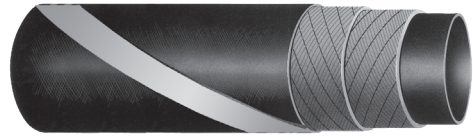
| Product Code | Nominal ID | | OD mm | Pressure bar | | Weight Kg/m |
|--------------|------------|-------|----------|--------------|-----------|----------------|
| | mm | in | | working | min burst | |
| IRAW-013 | 13 | 1/2 | 20 | 10 | 30 | 0.22 |
| IRAW-019 | 19 | 3/4 | 26 | 10 | 30 | 0.30 |
| IRAW-025 | 25 | 1 | 33 | 10 | 30 | 0.47 |
| IRAW-032 | 32 | 1.1/4 | 40 | 10 | 30 | 0.58 |
| IRAW-038 | 38 | 1.1/2 | 47 | 10 | 30 | 0.78 |
| IRAW-051 | 51 | 2 | 60 | 10 | 30 | 1.02 |
| IRAW-063 | 63.5 | 2.1/2 | 72.5 | 10 | 30 | 1.23 |
| IRAW-076 | 76 | 3 | 85 | 10 | 30 | 1.30 |
| IRAW-090 † | 90 | 3.1/2 | 100 | 10 | 30 | 1.76 |
| IRAW-102 | 102 | 4 | 112 | 10 | 30 | 2.02 |

* **Note:** Minimum Bend Radius. For Industrial Rubber Hoses that don't show a bend radius, as an approximate guide multiply 8 times the ID for delivery hoses and 7 times ID for suction hose with a wire helix.

† Limited stock available

IRWD

WATER DELIVERY



Construction

Inner Tube:

Black smooth SBR rubber compound

Reinforcement:

High strength synthetic cord

Cover:

Black smooth (wrapped finish) EPDM rubber compound. Resistant to ageing, weather and ozone

Applications

Softwall lightweight hose for industrial and waste waters. Especially suited to use with submersible dewatering pumps, movable surface irrigation systems and sewer cleaning

Temperature Range:

-25°C up to +70°C

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

Hose Tails:

Kamloks
Bauer Couplings
Industrial fittings

Lay line example: Yellow text on red background. Note comment above

PIRTEK WATER DELIVERY IRWD 5 bar (75 psi) WORK. PRESS.

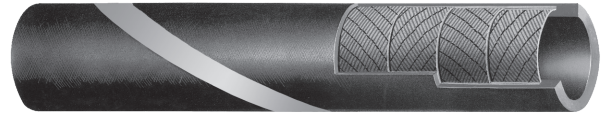
| Product Code | Nominal ID | | OD mm | Pressure bar | | Weight Kg/m |
|--------------|------------|----|----------|--------------|-----------|----------------|
| | mm | in | | working | min burst | |
| IRWD-102 | 102 | 4 | 110 | 5 | 15 | 1.63 |
| IRWD-127 † | 127 | 5 | 135 | 5 | 15 | 1.92 |
| IRWD-152 | 152 | 6 | 160 | 5 | 15 | 2.42 |
| IRWD-203 | 203 | 8 | 214 | 5 | 15 | 4.40 |
| IRWD-254 † | 254 | 10 | 264 | 5 | 15 | 4.54 |
| IRWD-305 † | 305 | 12 | 315 | 5 | 15 | 5.44 |

* **Note:** Minimum Bend Radius. For Industrial Rubber Hoses that don't show a bend radius, as an approximate guide multiply 8 times the ID for delivery hoses and 7 times ID for suction hose with a wire helix.

† Limited stock available

IRFAW/HD

FRAS AIR / WATER / STONEDUST



Construction

Inner Tube:

Black smooth electrically conductive NBR oil resistant rubber compound

Reinforcement:

2 or 4 spiral plies of high strength synthetic cord

Cover:

Black smooth (wrapped finish) electrically conductive CR rubber compound with orange spiral stripe. Fire, oil and weather resistant Series III NBR cover, electrically conductive, Fire, oil and weather resistant.

Applications

Softwall hose designed for arduous air / water applications in underground coal mining, where fire resistant anti static properties are required

Temperature Range:

-15°C up to +70°C

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

Approvals:

Meets or exceeds AS2660, incorporating AS1180.13A and AS1180.10B

Hose Tails:

Industrial fittings / Ferrules
High pressure 2 or 4 bolt clamps
Crimp fittings

Lay line example: Black text on orange background. Note comment above

PIRTEK AIR / WATER / STONEDUST FRAS IRFAW 20 BAR (290 psi) WORK. PRESS. MEETS & EXCEEDS AS 2660 "CLASS B"

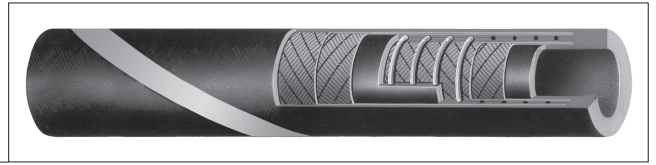
| "Product Code" | Nominal ID | | OD (avg) | Pressure (Bar) | | Bend Radius | Weight | Vacuum |
|----------------------|------------|--------|----------|----------------|------------|-------------|--------|--------|
| | mm | in | mm | Working | Min. Burst | mm | Kg/mtr | Bar |
| IRFAW-013 | 13 | 1/2 | 23 | 20 | 80 | - | 0.36 | - |
| IRFAW-013 SERIES III | 13 | 1/2 | 23 | 20 | 80 | 125 | 0.36 | - |
| IRFAW-019 | 19 | 3/4 | 29 | 20 | 80 | - | 0.47 | - |
| IRFAW-019 SERIES III | 19 | 3/4 | 29 | 20 | 80 | 164 | 0.46 | - |
| IRFAW-025 | 25 | 1 | 37 | 20 | 80 | - | 0.70 | - |
| IRFAW-025 SERIES III | 25 | 1 | 37 | 20 | 80 | 205 | 0.71 | - |
| IRFAW-032 | 32 | 1.1/4" | 46 | 20 | 80 | - | 1.02 | - |
| IRFAW-032 SERIES III | 32 | 1.1/4" | 46 | 20 | 80 | 243 | 1.14 | - |
| IRFAW-038 | 38 | 1.1/2 | 52.5 | 20 | 80 | - | 1.21 | - |
| IRFAW-038 SERIES III | 38 | 1.1/2 | 52.5 | 20 | 80 | 288 | 1.33 | - |
| IRFAW-051 | 51 | 2 | 66 | 20 | 80 | - | 1.60 | - |
| IRFAW-051 SERIES III | 51 | 2 | 66 | 20 | 80 | 360 | 1.82 | - |
| IRFAW-063 | 63.5 | 2.1/2 | 81 | 20 | 80 | - | 2.27 | - |
| IRFAW-063 SERIES III | 63.5 | 2.1/2 | 81 | 20 | 80 | 428 | 2.11 | - |
| IRFAW-076 | 76 | 3 | 93 | 20 | 70 | - | 2.53 | - |
| IRFAW-076 SERIES III | 76 | 3 | 93 | 20 | 70 | 498 | 2.44 | - |
| IRFAW-102 | 102 | 4 | 120 | 20 | 70 | - | 3.60 | - |
| IRFAW-102 SERIES III | 102 | 4 | 120 | 20 | 70 | 650 | 3.44 | - |
| IRFAWHD-051 | 51 | 2 | 73 | 27 | 81 | 370 | 2.87 | -0.6 |

* **Note:** Minimum Bend Radius. For Industrial Rubber Hoses that don't show a bend radius, as an approximate guide multiply 8 times the ID for delivery hoses and 7 times ID for suction hose with a wire helix.



IRWSD

WATER SUCTION & DELIVERY



Construction

Inner Tube:

Black smooth SBR rubber compound

Reinforcement:

High strength synthetic cord plus helix wire

Cover:

Black, smooth (wrapped finish) EPDM rubber compound, resistant to weathering and ozone

Applications

Hardwall hose for suction and delivery of water and non-corrosive fluids. Suitable for sewage, waste water, mud etc. in both general industry and agriculture

Temperature Range:

-30°C up to +70°C

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

Hose Tails:

Industrial fittings
High pressure 2 or 4 bolt clamps

Lay line example: Grey text on green background. Note comment above

PIRTEK S / D IRWSD 10 BAR (150 psi) WORK. PRESS.

| Product Code | Nominal ID | | OD mm | Pressure bar | | | Bend Radius mm | Weight Kg/m |
|--------------|------------|-------|----------|--------------|-----------|--------|-------------------|----------------|
| | mm | in | | working | min burst | vacuum | | |
| IRWSD-025 | 25 | 1 | 35 | 10 | 30 | 0.9 | 105 | 0.81 |
| IRWSD-032 | 32 | 1.1/4 | 42 | 10 | 30 | 0.9 | 135 | 0.99 |
| IRWSD-038 | 38 | 1.1/2 | 49 | 10 | 30 | 0.9 | 165 | 1.31 |
| IRWSD-051 | 51 | 2 | 63 | 10 | 30 | 0.9 | 230 | 1.73 |
| IRWSD-063 | 63.5 | 2.1/2 | 75.5 | 10 | 30 | 0.9 | 290 | 2.41 |
| IRWSD-076 | 76 | 3 | 92 | 10 | 30 | 0.9 | 360 | 3.61 |
| IRWSD-090 | 90 | 3.1/2 | 104 | 10 | 30 | 0.9 | 440 | 3.86 |
| IRWSD-102 | 102 | 4 | 116 | 10 | 30 | 0.9 | 515 | 4.13 |
| IRWSD-152 | 152 | 6 | 173 | 10 | 30 | 0.8 | 935 | 10.3 |

IRFWSD/H

FRAS AIR / WATER SUCTION & DELIVERY

10 Bar & 20 Bar



Construction

Inner Tube:

Black, smooth, electrically conductive NBR rubber compound

Reinforcement:

High strength synthetic cord plus helix wire

Cover:

Black smooth (wrapped finish) electrically conductive CR rubber compound, fire, oil weathering and UV resistant

10 Bar version SBR cover electrically conductive, fire, weather and UV resistant.

Applications

Hardwall hose designed for arduous air / water applications in underground coal mining, where fire resistant, anti static properties are required. Commonly used for gas drainage.

Temperature Range:

-15°C up to +70°C (20 Bar Version)
-30°C up to +80°C (10 Bar Version)

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

Approvals:

Meets or exceeds AS2660, incorporating AS1180.13A and AS1180.10B

Hose Tails:

Industrial fittings
High pressure 2 or 4 bolt clamps
Crimp Fittings

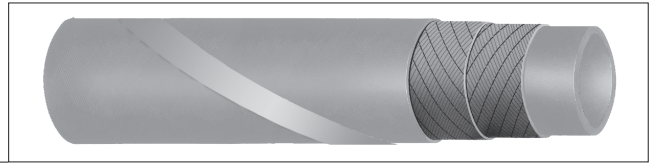
Lay line example: White text on orange background. Note Comment above

PIRTEK FRAS WATER SUCTION & DELIVERY IRFWSDH 20BAR (290PSI) W.P MEETS & EXCEEDS AS2660

| Product Code | Nominal ID | | | OD (avg) | Pressure bar | | | "Min. Bend Radius" | Weight |
|-----------------------|------------|------|-------|----------|--------------|------------|--------------|--------------------|--------|
| | DN | mm | ins | mm | Working | Min. Burst | Vacuum (bar) | mm | kg/mtr |
| IRFWSD-051 | 50 | 50.8 | 2 | 62 | 10 | 40 | -1.01 | 230 | 1.57 |
| IRFWSDH-051 SERIES II | 50 | 50.8 | 2 | 71 | 20 | 80 | -1.01 | 230 | 2.90 |
| IRFWSDH-063 | 63 | 63.5 | 2.1/2 | 84 | 20 | 80 | -0.9 | 320 | 3.27 |
| IRFWSDH-063 SERIES II | 63 | 63.5 | 2.1/2 | 84 | 20 | 80 | -1.01 | 285 | 3.47 |
| IRFWSD-076 | 75 | 76 | 3 | 89 | 10 | 40 | -1.01 | 345 | 2.70 |
| IRFWSDH-076 SERIES II | 75 | 76 | 3 | 97 | 20 | 80 | -1.01 | 345 | 4.36 |
| IRFWSD-102 | 100 | 102 | 4 | 116 | 10 | 40 | -1.01 | 455 | 4.00 |
| IRFWSDH-102 SERIES II | 100 | 102 | 4 | 124 | 20 | 70 | -1.01 | 455 | 6.15 |
| IRFWSD-152 | 150 | 152 | 6 | 172 | 10 | 40 | -1.01 | 840 | 7.46 |
| IRFWSDH-152 SERIES II | 150 | 152 | 6 | 178 | 20 | 70 | -1.01 | 840 | 10.61 |

IRWDR/W

WASHDOWN RED / WHITE



Construction

Inner Tube:

White smooth EPDM rubber compound

Reinforcement:

High strength synthetic cord

Cover:

White or red, smooth (wrapped finish), EPDM rubber compound. Heat, weathering and ozone resistant

Applications

Softwall hot water discharge hose for floor and equipment washdown in dairies, creameries, food processing plants, paper mills etc. Also suitable for outdoor use

Temperature Range:

-40°C up to +100°C

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

Hose Tails:

Industrial fittings

High pressure 2 or 4 bolt clamps, or stainless steel strapping

Lay line example: Red text on white background, or white text on red background. Note comment above
For red cover

PIRTEK HOT WASHDOWN IRWDR 10 BAR (150 psi) WORK. PRESS.

For white cover

PIRTEK HOT WASHDOWN IRWDW 10 BAR (150 psi) WORK. PRESS.

| Product Code | Hose Colour | Nominal ID | | OD mm | Pressure bar | | Weight Kg/m |
|--------------|-------------|------------|-----|----------|--------------|-----------|----------------|
| | | mm | in | | working | min burst | |
| IRWDW-13 | White | 13 | 1/2 | 25.5 | 10 | 30 | 0.37 |
| IRWDR-13 | Red | 13 | 1/2 | 25.5 | 10 | 30 | 0.37 |
| IRWDW-19 | White | 19 | 3/4 | 30.5 | 10 | 30 | 0.42 |
| IRWDR-19 | Red | 19 | 3/4 | 30.5 | 10 | 30 | 0.42 |
| IRWDW-25 | White | 25 | 1 | 34 | 10 | 30 | 0.47 |
| IRWDR-25 | Red | 25 | 1 | 34 | 10 | 30 | 0.47 |

* **Note:** Minimum Bend Radius. For Industrial Rubber Hoses that don't show a bend radius, as an approximate guide multiply 8 times the ID for delivery hoses and 7 times ID for suction hose with a wire helix.

IRPWD

PREMIUM WASHDOWN WHITE



Construction

Inner Tube:

White smooth IIR rubber compound tube in accordance to FDA title 21, item 177.2600 & BgW/XXI Cat.2

Reinforcement:

High strength synthetic cord

Cover:

White, smooth wrapped finish PVC nitrile rubber compound that is resistant to fatty food, weathering and ozone

Applications

Softwall hose for washing with hot water and steam in dairies, slaughterhouses and food industry applications in general

Temperature Range:

-30°C up to +95°C for hot water
-30°C up to +165°C for saturated steam *

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications



Refer Safety Guidelines
Page I 020

Hose Tails:

Industrial fittings
High pressure 2 or 4 bolt clamps, or stainless steel strapping

Lay line example: Blue text on white background. Note comment above

PIRTEK HOT WASHDOWN IRPWD 10 BAR (150 psi) WORK. PRESS.

| Product Code | Nominal ID | | OD mm | Cover | Pressure bar * | | Weight Kg/m |
|--------------|------------|-----|----------|-------|----------------|-----------|----------------|
| | mm | in | | | working | min burst | |
| IRPWD-013 | 13 | 1/2 | 23.0 | White | 10 * | 30 | 0.32 |
| IRPWD-019 | 19 | 3/4 | 29.0 | White | 10 * | 30 | 0.43 |

* Note: Working Pressure for steam use is 6 bar

IMPORTANT INFORMATION

concerning the selection and use of steam hose

HOSE SELECTION

- Be sure to select a hose identified as a saturated steam hose construction
- Hose identification should be in the form of permanent branding on the hose outer cover, not just on the packaging
- You must identify the type of service the steam hose is being asked to accomplish
 - a) What is the actual pressure of the steam service?
 - b) Is it subject to peak pressures?
 - c) What is the temperature of the steam?
 - d) Saturated (wet) or super heated (dry) steam?
 - e) What is the anticipated frequency of use?
 - f) What are the external conditions in the area where the hose will be used?
- You should recognise that spillage or accumulation of corrosive chemicals or petroleum based materials externally can have a deteriorating effect on hose cover

HOSE INSTALLATION AND STORAGE

- Be certain to use hose couplings designed for steam hose service. Steam hose couplings use a bolt-on outside clamp which can be retightened as necessary over the service life of the hose. Follow the coupling manufacturer's instructions for coupling attachment and check tightness with each use
- Avoid extreme bending of the hose near the coupling
- Provide a suitable means of storing the hose when not in use
- A permanent rack or tray will minimize the damage to the hose in storage
- Do not hang the hose on a hook, nail, or other device which could cut or damage the hose

PERIODIC MAINTENANCE AND CONTROL OF STEAM HOSE

All steam hoses are expected to wear out in time. It is important to continually be on the look-out for hose that has deteriorated to the point where it can no longer provide safe service. The operator should be aware of the following signs of trouble:

- Cover blisters or lumps
- Cuts in the outside of the hose which expose the reinforcement
- Steam leakages at the coupling ends or anywhere along the length of the hose
- Flattened or kinked areas which have damaged the hose
- A reduction of steam flow indicating that the tube is swelling

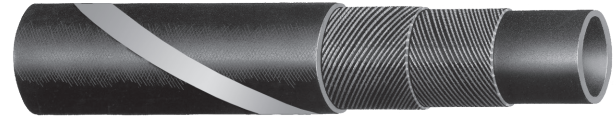
When any of the above abnormalities appear it is good safe practice to immediately remove the hose from service. Once removed, the hose can be carefully inspected before further use.

SAFETY

- Provide operators with adequate safety clothing. Include gloves, rubber boots, full length protective clothing, and eye protection. The objective is to provide protection from scalding burns resulting from splash-back of steam or hot water
- Ensure that the work area is free of hazards and other clutter
- Check tightness of coupling bolts with each use and perform periodical checks at appropriate regular intervals
- Do not allow the hose to remain pressurized when not in service. Turning off the pressure can provide dramatic increases in steam hose service life
- Test a steam hose at least every 90 days during the first year of its life, and monthly thereafter

IRSS

STEEL STEAM 270



Construction

Inner Tube:

Black smooth EPDM rubber specially compounded to withstand saturated steam

Reinforcement:

Plies of steel wire cord

Cover:

Red smooth (wrapped finish) EPDM rubber with excellent resistance to high temperature, weathering and ageing

Pin pricked to prevent cover separation

Applications

Steel cord hose for saturated steam at 18 bar (261 psi) working pressure. Designed for use in chemical, petrochemical and shipyard industries etc

Temperature Range:

-40°C up to +210°C
(suitable for continuous use)

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Safety Factor: 10:1

Reference Specifications

BS 5342 type 2, Class A

On request DIN 2825



Refer Safety Guidelines
Page I 020

IMPORTANT:

For longer life, drain after use

Hose Tails:

Industrial fittings

High pressure 4 bolt air fittings

Limitations:

Not recommended for steam cleaner applications.

Can reach a peak value of 230°C, 18 bar of superheated steam

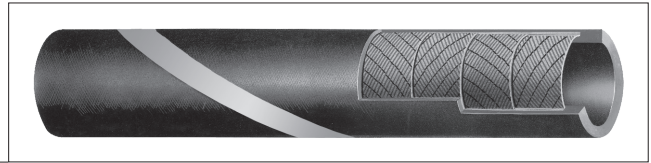
Lay line example: Red embossed text. Note comment above

PIRTEK STEEL STEAM 270 IRSS-025 210°C 18 BAR W.P. BS 5342 TYPE 2 CLASS A QUARTER / YEAR

| Product Code | Nominal ID | | OD mm | Pressure bar | | Weight Kg/m |
|--------------|------------|-------|----------|--------------|-----------|----------------|
| | mm | in | | working | min burst | |
| IRSS-013 | 13 | 1/2 | 25.0 | 18 | 180 | 0.51 |
| IRSS-019 | 19 | 3/4 | 31.0 | 18 | 180 | 0.67 |
| IRSS-025 | 25 | 1 | 37.0 | 18 | 180 | 0.90 |
| IRSS-032 | 32 | 1.1/4 | 46.5 | 18 | 180 | 1.31 |
| IRSS-038 | 38 | 1.1/2 | 54.0 | 18 | 180 | 1.63 |

IROFD

OIL / FUEL DELIVERY



Construction

Inner Tube:

Black, smooth conductive NBR rubber compound

Reinforcement:

High strength synthetic cord

Cover:

Black, smooth (wrapped finish) synthetic rubber, weathering and oil resistant

Applications

Softwall hose with electrically conductive rubber compound tube used for delivery of petroleum products having an aromatic content up to 50%. Suitable for Bio diesel (B100, B20, B10, B5)

Temperature Range:

-20°C up to +70°C

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

Limitations:

Not suitable for ester oils

Hose Tails:

Pirtek 'L' Series hydraulic tails or industrial fittings (Catalogue Section J)

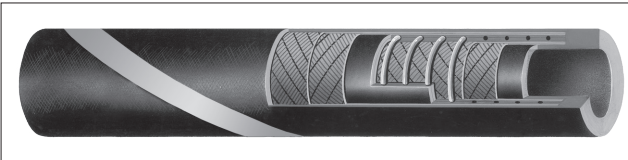
Lay line example: Black text on yellow background. Note comment above

PIRTEK OIL FUEL DELIVERY IROFD 10 BAR (150psi) WORK.PRESS.

| Product Code | Nominal ID | | OD mm | Pressure bar | | Weight Kg/m |
|--------------|------------|-------|----------|--------------|-----------|----------------|
| | mm | ins | | working | min burst | |
| IROFD-025 | 25 | 1 | 35 | 10 | 30 | 0.63 |
| IROFD-032 | 32 | 1.1/4 | 41 | 10 | 30 | 0.62 |
| IROFD-038 | 38 | 1.1/2 | 48 | 10 | 30 | 0.78 |
| IROFD-051 | 51 | 2 | 64 | 10 | 30 | 1.50 |
| IROFD-063 | 63 | 2.1/2 | 75 | 10 | 30 | 1.51 |
| IROFD-076 | 76 | 3 | 90 | 10 | 30 | 2.03 |

IROFSD

OIL / FUEL SUCTION & DELIVERY



Construction

Inner Tube:

Black smooth NBR compound

Reinforcement:

High strength synthetic cord plus embedded steel helix wire and anti-static copper wire

Cover:

Black, smooth (wrapped finish) SBR weather resistant rubber compound

Applications

Light weight hardwall suction and delivery hose for fuels having an aromatic content up to 30%, and mineral oils. Suitable in hydraulic systems and for loading and unloading of tank trucks, refineries and maintenance shops

Temperature Range:

-20°C up to +100°C for mineral oils
-20°C up to +70°C for fuels

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

Limitations:

Not suitable for ester oils

Hose Tails:

Pirtek 'J', 'L' or 'T' Series hydraulic tails or industrial fittings (Catalogue Section J)

Lay line example: Black text on yellow background. Note comment above

PIRTEK OIL FUEL S/D IROFSD 10 BAR (150psi) WORK.PRESS.

| Product Code | Nominal ID | | OD mm | Pressure bar | | | Min bend radius mm | Weight Kg/m |
|--------------|------------|-------|----------|--------------|-----------|--------|--------------------------|----------------|
| | mm | ins | | working | min burst | vacuum | | |
| IROFSD-019 | 19 | 3/4 | 30 | 10 | 30 | 0.9 | 80 | 0.67 |
| IROFSD-025 | 25 | 1 | 35 | 10 | 30 | 0.9 | 105 | 0.80 |
| IROFSD-032 | 32 | 1.1/4 | 42 | 10 | 30 | 0.9 | 135 | 0.98 |
| IROFSD-038 | 38 | 1.1/2 | 49.5 | 10 | 30 | 0.9 | 165 | 1.34 |
| IROFSD-045 | 45 | 1.3/4 | 57 | 10 | 30 | 0.9 | 180 | 1.60 |
| IROFSD-051 | 51 | 2 | 63 | 10 | 30 | 0.9 | 230 | 1.84 |
| IROFSD-063 | 63 | 2.1/2 | 78 | 10 | 30 | 0.9 | 300 | 2.79 |
| IROFSD-076 | 76 | 3 | 89 | 10 | 30 | 0.9 | 360 | 2.94 |
| IROFSD-102 | 102 | 4 | 118 | 10 | 30 | 0.9 | 500 | 4.94 |
| IROFSD-125 | 125 | 5 | 145 | 10 | 30 | 0.9 | 620 | 7.50 |

IROFSD SERIES II

OIL / FUEL SUCTION & DELIVERY



Construction

Inner Tube:

Black, smooth, NBR (Nitrile Buna N) rubber. Oil Resistant

Reinforcement:

High strength synthetic cord, embedded steel helix wire and anti-static copper wire

Cover:

Black, smooth (wrapped finish) NBR rubber. Weathering and oil resistance

Applications

Lightweight, hardwall suction and delivery hose for mineral oils, ethanol & blends, Biodiesel up to B10 and petroleum products having an aromatic content up to 50%. Suitable in hydraulic systems and for loading and unloading of tank trucks, refineries and maintenance shops. Not suitable for ester oils.

Temperature Range:

-35°C up to +100°C Mineral Oils
-35°C up to +80°C Fuels

Comment:

Layline example may not be a true indication of current status. Refer Pirtek for current information.

Reference Specifications

Limitations:

Not suitable for ester oils

Hose Tails:

Pirtek T, J or L series
Industrial crimp fittings
Industrial fittings with clamps

Lay line example: Yellow text on black background

PIRTEK IROFSD OIL/FUEL S&D SERIES II

| Item | ID - inch | ID - mm | OD (avg) - mm | Max W.P - bar | Max W.P - psi | Vacuum - bar | Min. Bend Radius - mm | Weight - Kg/ mtr |
|------------|-----------|---------|---------------|---------------|---------------|--------------|-----------------------|------------------|
| IROFSD-019 | 3/4 | 19.1 | 29.5 | 10 | 150 | 0.9 | 80 | 0.62 |
| IROFSD-025 | 1 | 25.4 | 36 | 10 | 150 | 0.9 | 105 | 0.78 |
| IROFSD-032 | 1.1/4 | 31.8 | 43 | 10 | 150 | 0.9 | 135 | 0.95 |
| IROFSD-038 | 1.1/2 | 38.1 | 49 | 10 | 150 | 0.9 | 165 | 1.17 |
| IROFSD-045 | 1.3/4 | 45 | 56 | 10 | 150 | 0.9 | 225 | 1.36 |
| IROFSD-051 | 2 | 50.8 | 62 | 10 | 150 | 0.9 | 230 | 1.51 |
| IROFSD-063 | 2.1/2 | 63.5 | 75.5 | 10 | 150 | 0.9 | 290 | 2.31 |
| IROFSD-076 | 3 | 76 | 89 | 10 | 150 | 0.9 | 360 | 2.86 |
| IROFSD-102 | 4 | 102 | 118 | 10 | 150 | 0.9 | 515 | 4.72 |
| IROFSD-125 | 5 | 125 | 145 | 10 | 150 | 0.9 | 620 | 7.30 |

IRCOSD

CORRUGATED OIL SUCTION & DELIVERY



Construction

Inner Tube:

Black, smooth, NBR rubber compound for oil

Reinforcement:

High strength synthetic cord plus embedded steel helix wire

Cover:

Black, corrugated, CR rubber compound, abrasion and weathering resistant.

Applications

Flexible rubber hose with corrugated cover suitable for conveying oil with an aromatic content up to 30% (except ester base). Hose suitable for suction (vacuum 0.5 bar) and delivery.

Temperature Range:

-30°C up to +120°C

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

Flame retardant according ASTM C 542.

Limitations:

Not suitable for ester oils

Hose Tails:

Pirtek 'L' Series, Kamloks

Lay line example: Red text on black background. Note comment above

PIRTEK OIL FUEL S/D IRCOSD 5 BAR (75psi) WORK.PRESS.

| Product Code | Nominal ID | | OD mm | Pressure bar | | | Min bend radius mm | Weight Kg/m |
|--------------|------------|-------|------------|--------------|-----------|--------|-----------------------|----------------|
| | mm | ins | | working | min burst | vacuum | | |
| IRCOSD-019 | 19 | 3/4 | Corrugated | 5 | 15 | 0.5 | 50 | 0.40 |
| IRCOSD-038 | 38 | 1.1/2 | Corrugated | 5 | 15 | 0.5 | 105 | 0.70 |

Advice to users on hoses in contact with food

Clean In Place Information

- Pirtek recommends for the first use, a wash cycles with potable water at a maximum temperature of 90°C and hose sanitation as per table below before conveying food products.
- At the end of each production the equipment and hose assemblies must be cleaned and sanitised.
- Strictly follow the times indicated for each cleaning cycle.
- Every cleaning cycle must be immediately followed by a complete rinse.
- Do not exceed 3 Bar working pressure in CIP systems.

| HOSE* | Hot Water | Steam Open end | H2O2 1% | H2O2 3% | Peracetic Acid 0.1% | Peracetic Acid 0.5% | Phosphoric Acid 5% | Chlorine 1% | NaOH 2% | NaOH 5% | Nitric Acid 0.1% | Nitric Acid 3% |
|------------------------|------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| IRPF IRFF IRPFCR | 90°C 8 hours | Max 130°C 30 minutes | Max 70°C 15 minutes | Max 30°C 15 minutes | Max 50°C 15 minutes | Max 70°C 30 minutes | Max 80°C 15 minutes | Max 80°C 15 minutes | Max 80°C 15 minutes | Max 30°C 15 minutes | Max 70°C 15 minutes | Max 30°C 15 minutes |
| IRLF IRBD | 80°C 8 hours | Max 110°C 15 minutes | Max 50°C 10 minutes | Max 30°C 10 minutes | Max 30°C 10 minutes | Max 30°C 10 minutes | Max 50°C 15 minutes | Max 70°C 15 minutes | Max 70°C 10 minutes | Max 30°C 10 minutes | Max 50°C 10 minutes | Max 30°C 10 minutes |
| IRPLF | 90°C 8 hours | Max 130°C 30 minutes | Max 70°C 15 minutes | Max 30°C 15 minutes | Max 50°C 15 minutes | Max 30°C 10 minutes | Max 80°C 15 minutes | Max 80°C 15 minutes | Max 80°C 15 minutes | Max 30°C 15 minutes | Max 70°C 15 minutes | Max 30°C 15 minutes |
| IRPC | 90°C 12 hours | Max 130°C 30 minutes | Max 80°C 30 minutes | Max 50°C 30 minutes | Max 70°C 30 minutes | Max 50°C 30 minutes | Max 80°C 30 minutes | Max 80°C 30 minutes | Max 80°C 30 minutes | Max 50°C 30 minutes | Max 80°C 30 minutes | Max 50°C 30 minutes |

*The indications regarding hoses on this list refer to the product codes found in the Pirtek catalogue.

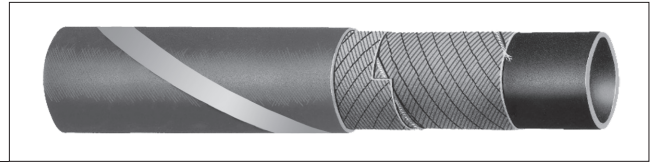
General Advice

- Hoses are not meant to permanently contain the products they convey.
- Store hoses away from direct sunlight and heat. When not in use store hoses with perforated plugs at both ends.
- Before every use check the hose condition. The hose cover, especially in the fitting area, should show no signs of cuts, tears or bubbles.
There should be no hard or weak areas, signs of detachment or collapse.

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IRPC

PREMIUM CHEMICAL



Construction

Inner Tube:

White smooth high weight cross linked polyethylene (UHMWPE)

Reinforcement:

High strength synthetic cord plus embedded steel helix wire and anti-static copper wire

Cover:

Green, smooth (wrapped finish) EPDM weather and ozone resistant rubber compound

Applications

Hardwall suction and delivery hose with high weight cross-linked polyethylene tube for handling a wide range of chemicals, food, and petroleum products

Temperature Range:

-20°C up to +100°C (see Limitations)

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

Tube meets FDA requirements

Limitations:

For acids, bases and solvents above 70°C, please contact Pirtek

Hose Tails:

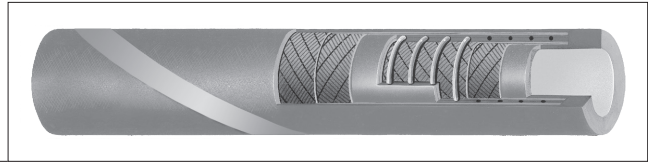
Industrial fittings
Kamloks
Stainless steel bands and clamps

Lay line example: Green text on purple background. Note comment above

PIRTEK PREMIUM CHEMICAL IRPC 10 BAR (150psi) WORK.PRESS.

| Product Code | Nominal ID | | OD mm | Pressure bar | | | Min bend radius mm | Weight Kg/m |
|--------------|------------|-------|----------|--------------|-----------|--------|-----------------------|----------------|
| | mm | in | | working | min burst | vacuum | | |
| IRPC-019 | 19 | 3/4 | 32 | 10 | 40 | 0.9 | 115 | 0.82 |
| IRPC-025 | 25 | 1 | 37 | 10 | 40 | 0.9 | 155 | 0.98 |
| IRPC-032 | 32 | 1.1/4 | 44 | 10 | 40 | 0.9 | 205 | 1.15 |
| IRPC-038 | 38 | 1.1/2 | 50.5 | 10 | 40 | 0.9 | 250 | 1.54 |
| IRPC-051 | 51 | 2 | 64 | 10 | 40 | 0.9 | 345 | 1.93 |
| IRPC-063 † | 63.5 | 2.1/2 | 78 | 10 | 40 | 0.9 | 450 | 2.61 |
| IRPC-076 | 76 | 3 | 92 | 10 | 40 | 0.9 | 545 | 3.38 |
| IRPC-102 | 102 | 4 | 120 | 10 | 40 | 0.9 | 780 | 5.18 |

† Limited stock available



Construction

Inner Tube:

White, smooth, food quality IIR rubber

Reinforcement:

High strength synthetic cord plus steel helix wire

Cover:

Blue, smooth (wrapped finish), synthetic rubber, weathering and abrasion resistance

Applications

Hardwall hose for suction & discharge of milk and food stuff. The light weight structure makes it a particularly flexible and easy to handle hose. Handles aqueous and alcohol up to 96°. Ideal for use on tank trucks as milk collection hose. (not suitable for connections less than 2mts).

Temperature Range:

-40°C up to +120°C

Comment:

Layline example may not be a true indication of current status. Refer to Pirtek for current information.

Reference Specifications

FDA approved
Phthalates free
PAHs and BPA free

Hose sterilisation:

Refer to page 25)

Hose Tails:

Industrial food grade fittings
IRFF crimp ferrule, S/S clamps

Layline example: Red text on white background. Note comment above

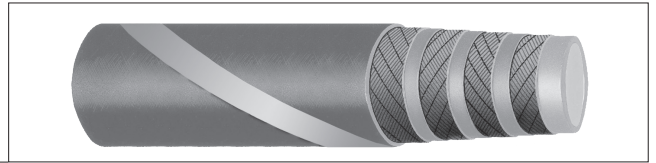
PIRTEK FOODFLEX SUCTION & DELIVERY 6 BAR 90PSI S.F 3:1 -40° +120°C

| "Product Code" | Nominal ID | | OD mm | Pressure (bar) | | | "Min. bend radius" mm | Weight Kg/mtr |
|----------------|------------|-------|----------|----------------|------------|--------|--------------------------|------------------|
| | mm | in | | working | min. burst | vacuum | | |
| IRFF-025 † | 25 | 1 | 36 | 6 | 18 | 0.7 | 55 | 0.75 |
| IRFF-032 † | 32 | 1.1/4 | 43 | 6 | 18 | 0.7 | 70 | 0.96 |
| IRFF-038 † | 38 | 1.1/2 | 49.5 | 6 | 18 | 0.6 | 85 | 1.22 |
| IRFF-051 † | 51 | 2 | 62.5 | 6 | 18 | 0.6 | 110 | 1.57 |
| IRFF-063 † | 63.5 | 2.1/2 | 76.5 | 6 | 18 | 0.5 | 140 | 2.21 |
| IRFF-076 | 76 | 3 | 89.5 | 6 | 18 | 0.5 | 170 | 2.7 |
| IRFF-102 † | 102 | 4 | 116 | 6 | 18 | 0.4 | 225 | 3.63 |

† Indent item, not normally stocked

IRBD

BEVERAGE DELIVERY



Construction

Inner Tube:

White, smooth, long lasting food quality NR rubber compound

Reinforcement:

High strength synthetic cords divided by a layer of rubber

Cover:

Red, smooth (wrapped finish) EPDM rubber compound, resistant to weathering and ageing

Applications

Softwall hose suitable for conveying potable water, wine, juice, soft drinks when a food grade hose is required
Not recommended for fatty foods

Temperature Range:

-35°C up to +70°C

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

Tube specification meets F.D.A title 21, item 177.2600 D.M. 21/3173

Limitations:

Not suitable for fatty foods

Hose Sterilisation:

Max. 110°C for a few minutes with steam; max. 30°C for a few minutes with 1% peracetic acid (CH₃CO₃H), 2% phosphoric acid (H₃PO₄), 5% caustic soda (NaOH)

Hose Tails:

Industrial food grade fittings
Stainless steel bands and clamps

Lay line example: Red text on white background. Note comment above

PIRTEK BEVERAGE IRBD 10 BAR (150 psi) WORK. PRESS.

| Product Code | Nominal ID | | OD mm | Pressure bar | | Weight Kg/m |
|--------------|------------|-------|----------|--------------|-----------|----------------|
| | mm | in | | working | min burst | |
| IRBD-019 † | 19 | 3/4 | 30 | 10 | 30 | 0.55 |
| IRBD-025 | 25 | 1 | 38 | 10 | 30 | 0.82 |
| IRBD-032 | 32 | 1.1/4 | 44 | 10 | 30 | 0.96 |
| IRBD-038 | 38 | 1.1/2 | 50 | 10 | 30 | 1.12 |
| IRBD-051 | 51 | 2 | 65 | 10 | 30 | 1.71 |
| IRBD-063 | 63.5 | 2.1/2 | 81.5 | 10 | 30 | 2.72 |
| IRBD-076 | 76 | 3 | 93 | 10 | 30 | 3.03 |
| IRBD-102 | 102 | 4 | 123 | 10 | 30 | 4.86 |

† Limited stock available



Construction

Inner Tube:

Clear white, smooth, food quality taste free and odourless IIR rubber compound

Reinforcement:

High strength synthetic cord plus embedded wire helix

Cover:

Red, smooth (wrapped finish) food quality, taste free and odourless IIR rubber compound, resistant to abrasion and weathering

Applications

Premium food quality suction and delivery hardwall hose designed for conveyance of wine and of alcohols at up to 96% by volume. Particularly suited to use in breweries and distilleries. Completely odourless and taste free

Temperature Range:

-40°C up to +120°C

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

Tube specification meets
F.D.A. title 21, item 177.2600 for aqueous foods
BgVV XXI cat.2 for aqueous and fatty foods
D.M. 21/03/73 for aqueous foods
D.M. 28/10/94 and 26/04/93 for alcohol, foods

Hose sterilisation:

Max. 130°C for a few minutes with steam;
max. 60°C for a few minutes with 2% nitric acid (HNO₃), 2% peracetic acid (CH₃CO₃H), 2% phosphoric acid (H₃PO₄), 5% caustic soda (NaOH)

Hose Tails:

Industrial food grade fittings
Stainless steel bands and clamps

Lay line example: Blue text on white background. Note comment above

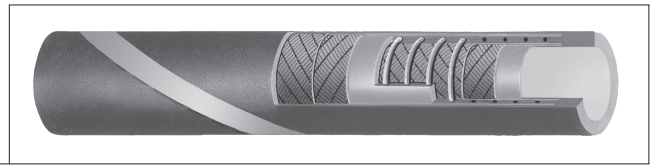
PIRTEK PREMIUM FOOD IRPF 10 BAR (150 psi) WORK. PRESS.

| Product Code | Nominal ID | | OD mm | Pressure bar | | | Bend Radius mm | Weight Kg/m |
|--------------|------------|-------|----------|--------------|-----------|--------|-------------------|----------------|
| | mm | in | | working | min burst | vacuum | | |
| IRPF-019 † | 19 | 3/4 | 32 | 10 | 30 | 0.9 | 84 | 0.73 |
| IRPF-025 | 25 | 1 | 38 | 10 | 30 | 0.9 | 115 | 0.90 |
| IRPF-032 | 32 | 1.1/4 | 46 | 10 | 30 | 0.9 | 145 | 1.19 |
| IRPF-038 | 38 | 1.1/2 | 52 | 10 | 30 | 0.9 | 180 | 1.45 |
| IRPF-040 † | 40 | 1.3/4 | 54 | 10 | 30 | 0.9 | 185 | 1.57 |
| IRPF-051 | 51 | 2 | 65 | 10 | 30 | 0.9 | 245 | 1.91 |
| IRPF-063 | 63.5 | 2.1/2 | 80 | 10 | 30 | 0.9 | 310 | 2.82 |
| IRPF-076 | 76 | 3 | 93 | 10 | 30 | 0.9 | 390 | 3.45 |
| IRPF-102 † | 102 | 4 | 120 | 10 | 30 | 0.9 | 555 | 4.89 |

† Indent item, not normally stocked

IRLF

LIQUID FOOD



Construction

Inner Tube:

White, smooth, food quality natural rubber compound

Reinforcement:

High strength synthetic cords plus helix wires

Cover:

Blue, smooth (wrapped finish) natural rubber compound, resistant to abrasion and weathering

Applications

Light weight suction and delivery hardwall hose designed for conveyance of milk and liquid foods. Particularly suited for use as a milk collection hose in the tank truck (see Limitations). Features extreme flexibility and ease of handling

Temperature Range:

-25°C up to +80°C

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

Tube specification meets F.D.A. title 21, item 177.2600 for aqueous foods BgVV XXI cat.2 for aqueous foods D.M. 21/03/73 for aqueous foods IANESCO France 8 IV 87 for milk

Limitations:

Note limited vacuum capabilities
Not suitable for connections less than 2 metres

Hose Sterilisation:

Max. 110°C for a few minutes with steam; max. 30°C for a few minutes with 1% peracetic acid (CH₃CO₃H), 2% phosphoric acid (H₃PO₄), 5% caustic soda (NaOH)

Hose Tails:

Industrial food grade fittings
Stainless steel bands and clamps

Lay line example: Blue text on white background. Note comment above

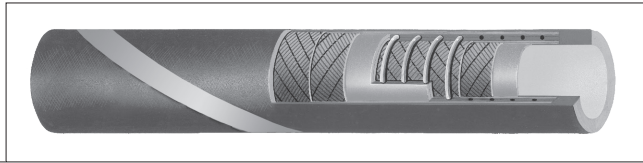
PIRTEK LIQUID FOOD IRLF 6 BAR (90 psi) WORK. PRESS.

| Product Code | Nominal ID | | OD mm | Pressure bar | | | Bend Radius mm | Weight Kg/m |
|--------------|------------|-------|----------|--------------|-----------|--------|-------------------|----------------|
| | mm | in | | working | min burst | vacuum | | |
| IRLF-025 † | 25 | 1 | 36 | 6 | 18 | 0.7 | 55 | 0.73 |
| IRLF-032 † | 32 | 1.1/4 | 43 | 6 | 18 | 0.7 | 70 | 0.93 |
| IRLF-038 | 38 | 1.1/2 | 49.5 | 6 | 18 | 0.6 | 84 | 1.18 |
| IRLF-051 | 51 | 2 | 62.5 | 6 | 18 | 0.6 | 110 | 1.53 |
| IRLF-063 | 63.5 | 2.1/2 | 76.5 | 6 | 18 | 0.5 | 140 | 2.17 |
| IRLF-076 | 76 | 3 | 89.5 | 6 | 18 | 0.5 | 170 | 2.65 |

† Limited stock available

IRPLF

PREMIUM LIQUID FOOD



Construction

Inner Tube:

White, smooth, food quality taste free and odourless EPDM rubber compound

Reinforcement:

High strength synthetic cords plus helix wires

Cover:

Blue, smooth (wrapped finish) synthetic rubber compound, resistant to abrasion and weathering

Applications

Hardwall hose, particularly suited to suction and delivery of milk and dairy products. Suitable for hot air on tank truck upto 140 °C

Temperature Range:

-40°C up to +120°C

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

Tube specification meets
 F.D.A. title 21, item 177.2600 for aqueous foods
 BgVV XXI cat.2 for aqueous and fatty foods
 D.M. 21/03/73 for aqueous foods
 IANESCO France 8 IV 87 for milk

Limitations:

Note limited vacuum capabilities

Hose Sterilisation:

For hose sterilisation, steam up to 150°C can be used for a few minutes. Max. 60°C for a few minutes with 2% nitric, peracetic, or phosphoric acid, or 5% caustic soda

Hose Tails:

Industrial food grade fittings
 Stainless steel bands and clamps

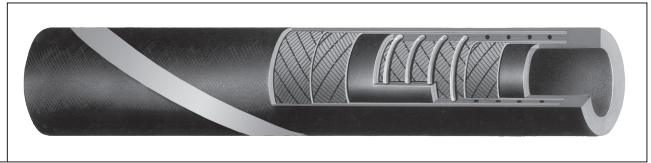
Lay line example: Blue text on violet background. Note comment above

PIRTEK IRPLF 10 BAR (150psi) W.P FDA Title 21

| Product Code | Nominal ID | | OD mm | Pressure bar | | | Bend Radius mm | Weight Kg/m |
|--------------|------------|-------|----------|--------------|-----------|--------|-------------------|----------------|
| | mm | in | | working | min burst | vacuum | | |
| IRPLF-051 | 51 | 2 | 64 | 10 | 30 | 0.9 | 170 | 1.77 |
| IRPLF-063 | 63.5 | 2.1/2 | 76.5 | 10 | 30 | 0.9 | 250 | 2.15 |

IRHAB

HOT AIR BLOWER



Construction

Inner Tube:

White, smooth, heat resistant EPR rubber compound

Reinforcement:

High strength synthetic cords plus embedded helix wire

Cover:

Blue, smooth (wrapped finish) EPDM rubber compound, resistant to weathering and ozone

Applications

Hardwall hose designed for conveyance of hot dry air from compressors to tank truck during transfer of dry bulk materials

Temperature Range:

-40°C up to +180°C

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

Not suitable for food stuff / applications

Hose Tails:

Kamloks
Industrial fittings
Stainless steel bands and clamps

Lay line example: Red text on blue background. Note comment above

PIRTEK HOT AIR BLOWER IRHAB 6 BAR (90 psi) WORK. PRESS.

| Product Code | Nominal ID | | OD mm | Pressure bar | | | Bend Radius mm | Weight Kg/m |
|--------------|------------|----|----------|--------------|-----------|--------|-------------------|----------------|
| | mm | in | | working | min burst | vacuum | | |
| IRHAB-076 | 76 | 3 | 90 | 10 | 30 | 0.9 | 270 | 2.74 |
| IRHAB-102 | 102 | 4 | 116 | 10 | 30 | 0.9 | 400 | 4.12 |

IRDM

DRY MATERIALS



Construction

Inner Tube:

Black, smooth NR/SBR rubber compound for excellent wear resistance in handling hard, sharp, abrasive materials

Reinforcement:

High strength synthetic cords

Cover:

Black, smooth (wrapped finish) NR/SBR rubber compound for excellent wear resistance in handling hard, sharp, abrasive materials

Applications

Softwall bulk materials handling hose for conveyance of sand, gravel, silica and other dry abrasive materials. Antistatic rubber compound

Temperature Range:

-40°C up to +70°C

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

Special Situations:

Can be manufactured to order with a white tube for transfer of abrasive products requiring a non-staining liner. eg stockfeed, seed, etc
Anti-static wire can also be incorporated to special order. Please consult Pirtek

Hose Tails:

Kamloks
Industrial fittings
Stainless steel bands and clamps

Lay line example: Yellow text on black background. Note comment above

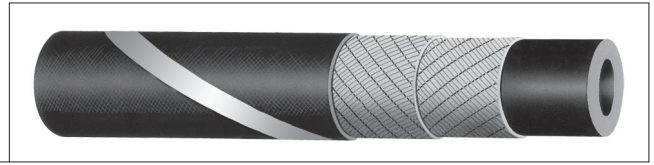
PIRTEK DRY MATERIALS IRDM 6 BAR (90 psi) WORK. PRESS.

| Product Code | Nominal ID | | OD mm | Pressure bar | | Weight Kg/m |
|--------------|------------|-------|----------|--------------|-----------|----------------|
| | mm | in | | working | min burst | |
| IRDM-076 † | 76 | 3 | 94 | 6 | 18 | 2.64 |
| IRDM-090 † | 90 | 3.1/2 | 106 | 6 | 18 | 2.64 |
| IRDM-102 | 102 | 4 | 119 | 6 | 18 | 3.20 |
| IRDM-127 † | 127 | 5 | 139 | 6 | 18 | 2.77 |

† Limited stock available

IRSB

SANDBLAST



Construction

Inner Tube:

Black, smooth, antistatic SBR/NR rubber compound, abrasion resistant

Reinforcement:

High strength synthetic cord

Cover:

Black, smooth (wrapped finish), antistatic SBR/NR rubber compound, abrasion resistant

Applications

A long-lasting heavy-duty softwall hose exceptionally tough and abrasion resistant, used for the delivery of sand, cast steel shot and abrasive materials in general use in the sand blasting service. It is manufactured with anti-static rubber compound.

Temperature Range:

-40°C up to +70°C

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

Abrasion Resistance:

Abrasion loss of the tube rubber compound according to DIN 53516 70 +/- 5 mm³

Hose Tails:

Industry standard couplings

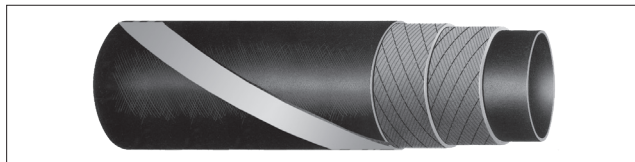
Lay line example: Red text on black background. Note comment above

PIRTEK SAND BLAST IRSB (600 psi) WORK. PRESS.

| Product Code | Nominal ID | | OD mm | Pressure bar | | Weight Kg/m |
|----------------|------------|-------|----------|--------------|-----------|----------------|
| | mm | in | | working | min burst | |
| IRSB-032060-48 | 32 | 1.1/4 | 48 | 10 | 30 | 1.08 |
| IRSB-032060-55 | 32 | 1.1/4 | 55 | 10 | 30 | 1.73 |

IRDEF

DIESEL EXHAUST FLUID (DEF) TRANSFER HOSE



Construction

Inner Tube:

Black, smooth, antistatic (R<1MΩ/m), sulphur free EPDM rubber ensuring no contamination of the fluid

Reinforcement:

High strength synthetic textile fabrics

Cover:

Black, smooth, antistatic (R<1MΩ/m), EPDM rubber, ozone, heat and weather resistant

Applications

Softwall hose specifically designed for the transfer of 32.5% urea aqueous solution (DEF/AUS32/Adblue®) according to spec. ISO 22241, that dramatically reduces the amount of NOx in diesel transport vehicles (SCR technology) in agreement with the goals Euro IV, Euro V & Euro VI.

Temperature Range:

-40°C up to +100°C (intermittent peaks up to +120°C)

Comment:

Layline example may not be a true indication of current status. Refer Pirtek for current information.

Specifications/Approvals

ISO 22241

Hose is antistatic for installations in Class 1, Division 1 areas

Hose Fittings:

Note: only 304, 316 S/S or Polypropylene material with EPDM seals to be used.

'T' series 1/4", 'J' series 3/4"

Industrial hose fittings with clamp
DEF quick connect fittings

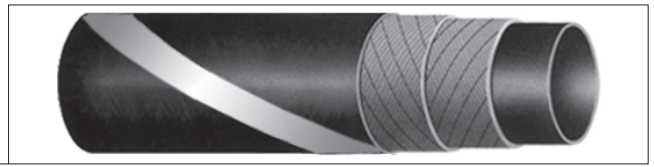
Layline example: White text on black background

PIRTEK DIESEL EXHAUST FLUID/AUS 32 IRDEF-06 1/4" (6.4MM) 15 BAR (218 PSI) W.P R<1MΩ/M ISO 22241 IT 2021 10

| "Product code" | I.D | | O.D (avg) | Max. W.P | Min. B.P | Bend radius | Vacuum | Weight |
|----------------|-----|------|-----------|----------|----------|-------------|--------|--------|
| | mm | inch | | | | | | |
| IRDEF-06 | 6 | 1/4 | 13 | 15 | 45 | 40 | -0.5 | 0.13 |
| IRDEF-13 * | 13 | 1/2 | 20 | 20 | 60 | 80 | -0.5 | 0.23 |
| IRDEF-16 * | 16 | 5/8 | 26 | 20 | 60 | 100 | -0.5 | 0.43 |
| IRDEF-19 | 19 | 3/4 | 30 | 20 | 60 | 115 | -0.5 | 0.56 |
| IRDEF-25 * | 25 | 1 | 37 | 20 | 60 | 150 | -0.5 | 0.76 |

* Non stocked, available on request

IRR RADIATOR



Construction

Inner Tube:

Black smooth heat resistant EPDM rubber compound

Reinforcement:

High strength synthetic cord

Cover:

Black, smooth (wrapped finish) EPDM rubber compound, resistant to weathering and ageing

Applications

Softwall hose for conveyance of hot water, anti-freeze etc

Temperature Range:

-40°C up to +100°C

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

Hose Tails:

Industrial fittings
Stainless steel bands and clamps

Lay line example: Black text on green background. Note comment above

PIRTEK RADIATOR IRR 3 BAR (45 psi) WORK. PRESS.

| Product Code | Nominal ID | | OD mm | Pressure bar | | Length m | Weight Kg/m |
|--------------|------------|---------|----------|--------------|-----------|-------------|----------------|
| | mm | in | | working | min burst | | |
| IRR-019 | 19 | 3/4 | 27 | 3 | 9 | 1 | 0.34 |
| IRR-022 | 22 | 7/8 | 30 | 3 | 9 | 1 | 0.37 |
| IRR-025 | 25 | 1 | 33 | 3 | 9 | 1 | 0.46 |
| IRR-028 | 28 | 1.7/64 | 36 | 3 | 9 | 1 | 0.47 |
| IRR-028-1 † | 28 | 1.7/64 | 37 | 3 | 9 | 1 | 0.58 |
| IRR-030 † | 30 | 1.1/8 | 38 | 3 | 9 | 1 | 0.50 |
| IRR-032 | 32 | 1.1/4 | 40 | 3 | 9 | 1 | 0.53 |
| IRR-035 | 35 | 1.3/8 | 43 | 3 | 9 | 1 | 0.57 |
| IRR-038 | 38 | 1.1/2 | 46 | 3 | 9 | 1 | 0.62 |
| IRR-040 | 40 | 1.37/64 | 49 | 3 | 9 | 1 | 0.80 |
| IRR-042 † | 42 | 1.21/32 | 51 | 3 | 9 | 1 | 0.84 |
| IRR-045 | 45 | 1.49/64 | 54 | 3 | 9 | 1 | 0.84 |
| IRR-051 | 51 | 2 | 61 | 3 | 9 | 1 | 1.14 |
| IRR-058 | 58 | 2.9/32 | 67 | 3 | 9 | 1 | 1.12 |
| IRR-060 | 60 | 2.3/8 | 70 | 3 | 9 | 1 | 1.32 |
| IRR-063 | 63.5 | 2.1/2 | 73.5 | 3 | 9 | 1 | 1.37 |
| IRR-065 | 65 | 2.9/16 | 76.5 | 3 | 9 | 1 | 1.62 |
| IRR-070 | 70 | 2.3/4 | 80 | 3 | 9 | 1 | 1.53 |
| IRR-076 | 76 | 3 | 86 | 3 | 9 | 1 | 1.66 |
| IRR-080 † | 80 | 3 | 90 | 3 | 9 | 1 | 1.74 |
| IRR-090 † | 90 | 3.1/2 | 100 | 3 | 9 | 1 | 1.94 |
| IRR-102 † | 102 | 4 | 112 | 3 | 9 | 1 | 2.19 |

† Limited stock available

IRME MARINE EXHAUST



Construction

Inner Tube:

Black smooth CR rubber compound resistant to gas exhaust

Reinforcement:

High strength synthetic cord plus embedded wire helix

Cover:

Black corrugated (wrapped finish) CR rubber compound, flame retarding and resistant to weathering

Applications

Hardwall corrugated rubber hose specifically designed for gas exhaust in pleasure boats

Temperature Range:

-30°C up to +100°C

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

Nordic Boat Standard MC9 with certification DNV-VTT and NMA.
Lloyd's Register LR Rules

Hose Tails:

Industrial fittings
Stainless steel bands and clamps

Lay line example: White text on blue background. Note comment above

PIRTEK MARINE EXHAUST IRME 1.6 BAR (25 psi) WORK. PRESS.

| Product Code | Nominal ID | | Pressure bar | | Bend Radius | Weight |
|--------------|------------|-------|--------------|-----------|-------------|--------|
| | mm | in | working | min burst | mm | Kg/m |
| IRME-025 | 25 | 1 | 1.6 | 5 | 110 | 0.53 |
| IRME-032 | 32 | 1.1/4 | 1.6 | 5 | 130 | 0.65 |
| IRME-038 | 38 | 1.1/2 | 1.6 | 5 | 150 | 0.74 |
| IRME-045 | 45 | 1.3/4 | 1.6 | 5 | 170 | 0.87 |
| IRME-051 | 51 | 2 | 1.6 | 5 | 180 | 1.07 |
| IRME-058 | 58 | 2.1/4 | 1.6 | 5 | 190 | 1.20 |
| IRME-060 † | 60 | 2.3/8 | 1.6 | 5 | 200 | 1.23 |
| IRME-063 | 63.5 | 2.1/2 | 1.6 | 5 | 200 | 1.30 |
| IRME-070 † | 70 | 2.3/4 | 1.6 | 5 | 230 | 1.42 |
| IRME-076 | 76 | 3 | 1.6 | 5 | 250 | 1.46 |
| IRME-090 | 90 | 3.1/2 | 1.6 | 5 | 330 | 1.73 |
| IRME-102 | 102 | 4 | 1.6 | 5 | 410 | 2.06 |
| IRME-114 † | 114 | 4.1/2 | 1.6 | 5 | 500 | 2.33 |
| IRME-127 | 127 | 5 | 1.6 | 5 | 560 | 2.58 |
| IRME-152 | 152 | 6 | 1.6 | 5 | 680 | 2.98 |
| IRME-203 † | 203 | 8 | 1.6 | 5 | 995 | 5.52 |
| IRME-254 † | 254 | 10 | 1.6 | 5 | 1400 | 7.67 |
| IRME-305 † | 305 | 12 | 1.6 | 5 | 1900 | 11.37 |

† Limited stock available

General properties of the elastomers used in Pirtek industrial rubber hoses

| Common Name | ASTM Designation | Composition | General Properties |
|---------------------------------------|------------------------------|---|--|
| brominated butyl chlorinated butyl | BIIR CIIR | bromo isobutene-isoprene chloro isobutene-isoprene | excellent weathering resistance, low permeability to air and gases, good physical properties, resistant to heat poor resistance to petroleum based fluids, good resistance to fat |
| chlorinated polyethylene | CM (CPE) | chloro polyethylene | excellent ozone and weathering resistance, good oil and chemical resistance, excellent flame resistance |
| cross-linked polyethylene | XLPE UHMWPE | polyethylene and cross linking agent | excellent for a very wide range of solvents, chemicals, acids and oils |
| ethylene propylene | EPDM | ethylene propylene diene-terpolymer | excellent ozone, chemical and ageing resistance, poor resistance to petroleum based fluids, very good steam resistance |
| ethylene propylene | EPM (EPR) | ethylene propylene copolymer | excellent ozone, weathering, heat, chemical and aging resistance, poor resistance to petroleum products, very good steam resistance |
| hypalon ® | CSM | chloro-sulfonyl-polyethylene | excellent weathering, ozone and acid resistance, good heat and abrasion resistance, fair resistance to petroleum based fluids |
| natural | NR | isoprene natural | excellent physical properties, very good abrasion resistance, poor resistance to petroleum based fluids |
| neoprene | CR | chloroprene | good weathering and flame retardant resistance, good oil resistance, good physical properties |
| nitrile (buna-n) | NBR | Acrylonitrile-butadiene | excellent petroleum products resistance, moderate resistance to aromatics, good physical properties |
| buna-n / polyvinyl chloride | PVC / NBR | acrylonitrile-butadiene / polyvinyl-chloride | excellent petroleum products and weathering resistance, both for tube and cover |
| polyacrylic | ACM | acrylic monomer | excellent oil and tar resistance at high temperatures |
| sbr | SBR | styrene butadiene | good physical properties, good abrasion resistance, poor resistance to petroleum based fluids |
| viton ® | FKM | fluorocarbon rubber | excellent high temperature resistance, particularly in air and oil, very good chemical resistance |

General properties of the fibres used in Pirtek industrial rubber hoses

| | | | |
|-----------------|--|--------------------------|---|
| nylon | | polyamide | very high strength, high elongation, very good resistance to fatigue and abrasion, low moisture absorption, high resistance against chemical and fungal activity, good temperature resistance |
| rayon | | regeneraed cellulose | very good dry strength, high moisture absorption, good fatigue resistance, low resistance to chemical and fungal activity |
| polyester | | polyester | very high strength, excellent fatigue & abrasion resistance, low moisture absorption, high resistance to chemical & fungal activity |
| nomex ® | | polyarilamidic fibre | only used in high temperature applications, low strength |
| aramide | | aramide fibre | very high strength, used for special hose applications |
| glass | | fibre glass | only used in high temperature applications |
| pva | | polyvinyl alcohol | very good strength, low moisture absorption, excellent resistance to dynamics stress |
| steel wire cord | | steel with brass plating | steel wire, only used for high pressure |

FLEXIBLE METAL HOSES IMPORTANT TECHNICAL ASPECTS

All Pirtek convoluted stainless steel hoses feature:

- Grade 316L stainless steel corrugated inner tube
- Grade 304 stainless steel outer braiding
- Hydroformed inner tube resulting in
 - uniform wall thickness
 - minimal residual stress during forming of the corrugations
 - better flexibility
 - longer cycle life
- Superior manufacturing facilities
- Certified testing performed on request
- ISO9001:2000 Design and manufacture of flexible metal hose assemblies
- AGA 216-1998 certification to a maximum pressure rating of 1500kPa for Standard Flex and Super Flex hose assemblies from 6 mm to 200 mm ID

Hoses are normally configured as either:

- Unbraided (applications including vacuum or exhaust)
- Single wire braid (the vast majority of industrial applications)
- Double wire braid (where higher working pressures are needed)

Reference Specifications:

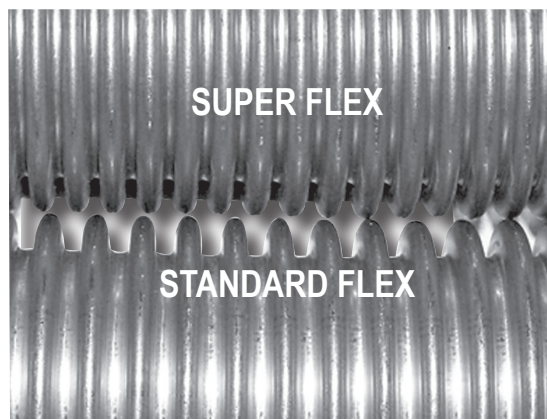
- ISO 10380 Corrugated metal hoses and hose assemblies
- ISO 10806 Fittings for corrugated metal hoses

End Fittings:

- A full range available in mild steel, stainless steel, brass and copper. See page I 046

Temperature Ratings:

The advantage of flexible metal hose compared to other materials is its capability to withstand a wide temperature range from -270° C to +816° C. As with most materials, elevated service temperatures will reduce the allowable maximum working pressure. The specification charts on the following 2 pages are valid for a working temperature of 20°C with no shock or impulse. Use the multiplication factor below when assessing a material's pressure capability at higher temperatures.



| Temperature | Material | Material | Material | Material | Material |
|-------------|----------|----------|----------|----------|----------|
| °C | St Steel | Steel | Monel | Bronze | Inconel |
| 20 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 66 | 0.97 | 0.99 | 0.93 | 0.92 | 0.97 |
| 93 | 0.94 | 0.97 | 0.90 | 0.89 | 0.94 |
| 121 | 0.92 | 0.96 | 0.87 | 0.86 | 0.92 |
| 150 | 0.88 | 0.93 | 0.83 | 0.83 | 0.88 |
| 177 | 0.86 | 0.91 | 0.82 | 0.81 | 0.86 |
| 200 | 0.83 | 0.87 | 0.79 | 0.78 | 0.83 |
| 230 | 0.81 | 0.86 | 0.77 | 0.75 | 0.81 |
| 260 | 0.78 | 0.81 | 0.73 | | 0.78 |
| 316 | 0.74 | 0.74 | 0.72 | | 0.74 |
| 371 | 0.70 | 0.66 | 0.71 | | 0.70 |
| 427 | 0.66 | 0.52 | 0.70 | | 0.66 |
| 482 | 0.62 | 0.50 | | | 0.62 |
| 538 | 0.60 | | | | |
| 593 | 0.58 | | | | |
| 649 | 0.55 | | | | |
| 704 | 0.50 | | | | |
| 760 | 0.44 | | | | |
| 816 | 0.40 | | | | |



| Nominal ID | | Construction | OD | Pressures @ 20°C * | | | Min. Bend Radius | |
|----------------------------------|-----|--------------|------|--------------------|-------|-------|------------------|---------|
| | | | | Max. W.P. | Test | Burst | Static | Dynamic |
| ins | mm | | mm | bar | bar | bar | mm | mm |
| STANDARD FLEX - 316L TUBE | | | | | | | | |
| 1/4 | 6 | Unbraided | 13 | 22 | 33 | - | 25 | 100 |
| 1/4 | 6 | Single Braid | 14 | 180 | 270 | 720 | 25 | 100 |
| 1/4 | 6 | Double Braid | 15 | 288 | 432 | 1152 | 25 | 100 |
| 5/16 | 8 | Unbraided | 14 | 18 | 27 | - | 25 | 100 |
| 5/16 | 8 | Single Braid | 15.5 | 154 | 230 | 616 | 25 | 100 |
| 5/16 | 8 | Double Braid | 17 | 246 | 369 | 984 | 25 | 100 |
| 3/8 | 10 | Unbraided | 15 | 17 | 25 | - | 40 | 150 |
| 3/8 | 10 | Single Braid | 17 | 105 | 157 | 420 | 40 | 150 |
| 3/8 | 10 | Double Braid | 19 | 168 | 252 | 672 | 40 | 150 |
| 1/2 | 12 | Unbraided | 18 | 12 | 18 | - | 50 | 200 |
| 1/2 | 12 | Single Braid | 20 | 88 | 132 | 352 | 50 | 200 |
| 1/2 | 12 | Double Braid | 22 | 140 | 210 | 560 | 50 | 200 |
| 5/8 | 16 | Unbraided | 22 | 10 | 15 | - | 50 | 200 |
| 5/8 | 16 | Single Braid | 24 | 73 | 109 | 292 | 50 | 200 |
| 5/8 | 16 | Double Braid | 26 | 116 | 174 | 464 | 50 | 200 |
| 3/4 | 20 | Unbraided | 28 | 6 | 9 | - | 70 | 200 |
| 3/4 | 20 | Single Braid | 29 | 64 | 96 | 256 | 70 | 200 |
| 3/4 | 20 | Double Braid | 30 | 102 | 153 | 408 | 70 | 200 |
| 1 | 25 | Unbraided | 35 | 4 | 6 | - | 90 | 200 |
| 1 | 25 | Single Braid | 37 | 50 | 75 | 200 | 90 | 200 |
| 1 | 25 | Double Braid | 39 | 80 | 120 | 320 | 90 | 200 |
| 1.1/4 | 32 | Unbraided | 42 | 3 | 4.5 | - | 110 | 250 |
| 1.1/4 | 32 | Single Braid | 44 | 42 | 63 | 168 | 110 | 250 |
| 1.1/4 | 32 | Double Braid | 46 | 67 | 100 | 268 | 110 | 250 |
| 1.1/2 | 40 | Unbraided | 53 | 2.5 | 3.75 | - | 130 | 250 |
| 1.1/2 | 40 | Single Braid | 54 | 32 | 48 | 128 | 130 | 250 |
| 1.1/2 | 40 | Double Braid | 57 | 51 | 76 | 204 | 130 | 250 |
| 2 | 50 | Unbraided | 65 | 1.5 | 2.25 | - | 175 | 350 |
| 2 | 50 | Single Braid | 67 | 31 | 46 | 124 | 175 | 350 |
| 2 | 50 | Double Braid | 69 | 49 | 73 | 196 | 175 | 350 |
| 2.1/2 | 65 | Unbraided | 84 | 1.5 | 2.25 | - | 200 | 410 |
| 2.1/2 | 65 | Single Braid | 86 | 26 | 39 | 104 | 200 | 410 |
| 2.1/2 | 65 | Double Braid | 88 | 41 | 61 | 164 | 200 | 410 |
| 3 | 80 | Unbraided | 97 | 1 | 1.5 | - | 205 | 450 |
| 3 | 80 | Single Braid | 99 | 18 | 27 | 72 | 205 | 450 |
| 3 | 80 | Double Braid | 101 | 28 | 42 | 112 | 205 | 450 |
| 4 | 100 | Unbraided | 119 | 0.8 | 1.2 | - | 230 | 560 |
| 4 | 100 | Single Braid | 121 | 16 | 24 | 64 | 230 | 560 |
| 4 | 100 | Double Braid | 123 | 26 | 39 | 104 | 230 | 560 |
| 5 | 125 | Unbraided | 150 | 0.6 | 0.9 | - | 280 | 660 |
| 5 | 125 | Single Braid | 151 | 16 | 24 | 64 | 280 | 660 |
| 5 | 125 | Double Braid | 154 | 25 | 37 | 100 | 280 | 660 |
| 6 | 150 | Unbraided | 179 | 0.5 | 0.75 | - | 320 | 815 |
| 6 | 150 | Single Braid | 180 | 12 | 18 | 48 | 320 | 815 |
| 6 | 150 | Double Braid | 184 | 20 | 30 | 80 | 320 | 815 |
| 8 | 200 | Unbraided | 230 | 0.3 | 0.45 | - | 435 | 1015 |
| 8 | 200 | Single Braid | 234 | 10 | 16 | 40 | 435 | 1015 |
| 8 | 200 | Double Braid | 240 | 16 | 24 | 64 | 435 | 1015 |
| 10 | 250 | Unbraided | 284 | 0.2 | 0.3 | - | 560 | 1220 |
| 10 | 250 | Single Braid | 288 | 6.5 | 9.75 | 26 | 560 | 1220 |
| 10 | 250 | Double Braid | 295 | 10.5 | 15.75 | 42 | 560 | 1220 |

Burst pressure not applicable for unbraided hoses

* See page I 040 for modifying factors with elevated temperature

| Nominal ID | | Construction | OD | Pressures @ 20°C * | | | Min. Bend Radius | |
|-------------------------------|-----|--------------|-----|--------------------|------|-------|------------------|---------|
| | | | | Max. W.P. | Test | Burst | Static | Dynamic |
| ins | mm | | mm | bar | bar | bar | mm | mm |
| SUPER FLEX - 316L TUBE | | | | | | | | |
| 1/2 | 12 | Unbraided | 18 | 12 | 18 | - | 45 | 180 |
| | | Single Braid | 20 | 88 | 132 | 352 | 45 | 180 |
| | | Double Braid | 22 | 140 | 210 | 560 | 45 | 180 |
| 5/8 | 16 | Unbraided | 22 | 10 | 15 | - | 45 | 180 |
| | | Single Braid | 24 | 73 | 109 | 292 | 45 | 180 |
| | | Double Braid | 26 | 116 | 174 | 464 | 45 | 180 |
| 3/4 | 20 | Unbraided | 28 | 6 | 9 | - | 62 | 180 |
| | | Single Braid | 29 | 64 | 96 | 256 | 62 | 180 |
| | | Double Braid | 30 | 102 | 153 | 408 | 62 | 180 |
| 1 | 25 | Unbraided | 35 | 4 | 6 | - | 82 | 180 |
| | | Single Braid | 37 | 50 | 75 | 200 | 82 | 180 |
| | | Double Braid | 39 | 80 | 120 | 320 | 82 | 180 |
| 1.1/4 | 32 | Unbraided | 42 | 3 | 4.5 | - | 100 | 220 |
| | | Single Braid | 44 | 42 | 63 | 168 | 100 | 220 |
| | | Double Braid | 46 | 67 | 100 | 268 | 100 | 220 |
| 1.1/2 | 40 | Unbraided | 53 | 2.5 | 3.75 | - | 110 | 220 |
| | | Single Braid | 54 | 32 | 48 | 128 | 110 | 220 |
| | | Double Braid | 57 | 51 | 76 | 204 | 110 | 220 |
| 2 | 50 | Unbraided | 65 | 1.5 | 2.25 | - | 160 | 320 |
| | | Single Braid | 67 | 31 | 46 | 124 | 160 | 320 |
| | | Double Braid | 69 | 49 | 73 | 196 | 160 | 320 |
| 2.1/2 | 65 | Unbraided | 84 | 1.5 | 2.25 | - | 180 | 370 |
| | | Single Braid | 86 | 26 | 39 | 104 | 180 | 370 |
| | | Double Braid | 88 | 41 | 61 | 164 | 180 | 370 |
| 3 | 80 | Unbraided | 97 | 1 | 1.5 | - | 185 | 410 |
| | | Single Braid | 99 | 18 | 27 | 72 | 185 | 410 |
| | | Double Braid | 101 | 28 | 42 | 112 | 185 | 410 |
| 4 | 100 | Unbraided | 119 | 0.8 | 1.2 | - | 200 | 510 |
| | | Single Braid | 121 | 16 | 24 | 64 | 200 | 510 |
| | | Double Braid | 123 | 26 | 39 | 104 | 200 | 510 |

* See page I 040 for modifying factors with elevated temperature

Pulsating or Shock Pressures

Pulsating pressure is characterised by rapid variation above and below the nominal working pressure, normally caused by the action of reciprocating pumps. Constant hose movement causes the corrugated peaks to rub against the reinforcing braid and fail prematurely. The rated working pressure of the hose assembly should be halved in these situations

Shock pressures (sudden pressure increases causing a shock wave) are less frequent but lead to rapid failure as a result of metal fatigue. Valve open and closures are common causes. *The peak* of a shock pressure so induced must not exceed 50% of the otherwise allowable working pressure. In any event, the nominal working pressure should not exceed 1/6 of the tabulated (and temperature adjusted) working pressure

Flow Velocity

To avoid premature hose failure by fatigue, do not exceed

Gas: 45 metres / sec

Liquid: 22 metres / sec

Reduce a further 25% for 45° bends, 50% for 90° bends

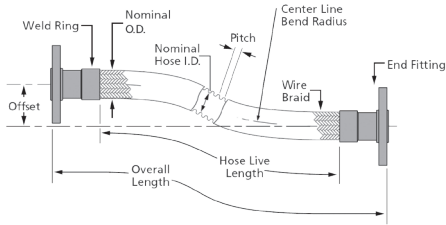
Where the flow velocity exceeds these rates, an interlocked metal liner or larger hose ID is recommended

Pressure Drop

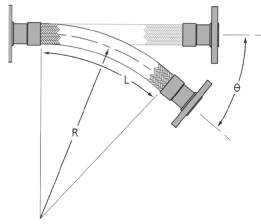
Pressure drop in a straight corrugated hose is approximately 1.5 times that of rigid pipe. If this is likely to be significant, it may be necessary to use the next larger nominal size of hose, and adapt back at the ends using rigid reducers

Consult Pirtek for specific applications





Each assembly must be sized to suit the proposed location and expected movement. Use the appropriate formula below to calculate the live length required, and add the length of fittings to derive the overall length of assembly.



Angular Motion with one end deflected in a simple bend. Ends move out of parallel

$$L = \pi R \theta / 180 + 2(S)$$

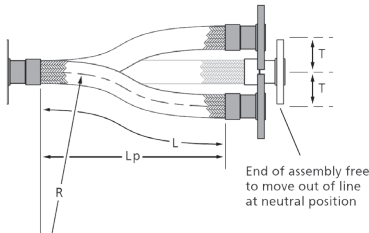
L = live length (mm)

$\pi = 3.1416$

R = Minimum dynamic bend radius

θ = Angular deflection ($^{\circ}$)

S = Nominal Hose OD (mm)



Offset Motion with one end free to move 'out of line' at the neutral position

$$L = \sqrt{6(RT) + T^2}$$

$$L_p = \sqrt{L^2 - T^2}$$

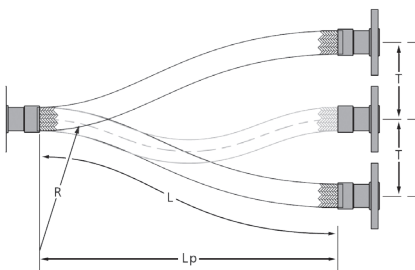
L = live length (mm)

Lp = horizontal component of L

R = Minimum dynamic bend radius

T = Travel from neutral (mm)

(T never to exceed 25% of Dynamic Bend Radius)



Offset Motion again but with the moving end constrained to move in line at all points

$$L = \sqrt{20(RT)}$$

$$L_p = \sqrt{L^2 - T^2}$$

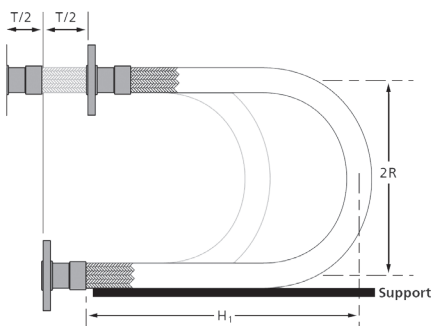
L = live length (mm)

Lp = horizontal component of L

R = Minimum dynamic bend radius

T = Travel from neutral (mm)

(T never to exceed 25% of Dynamic Bend Radius)



Travelling Loops of constant radius as seen at left and right are used where simple deflection of the hose cannot accommodate the movement involved

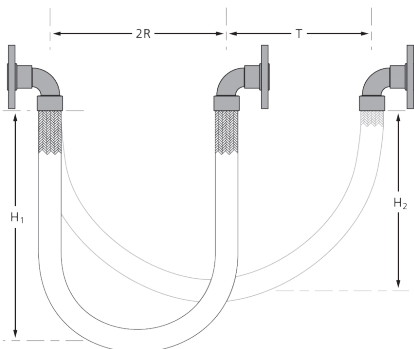
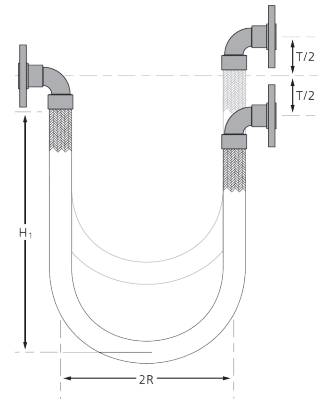
$$L = 4R + T/2$$

$$H_1 = 1.43 R + T/2$$

L and R as previous

T = Total travel (mm)

H = Hang Length of the Loop (mm)



Travelling Loops of changing radius as seen at left and right are used where simple deflection of the hose cannot accommodate the movement involved. It is a more compact arrangement than a constant radius loop, but allows less movement

$$L = 4R + 1.57T$$

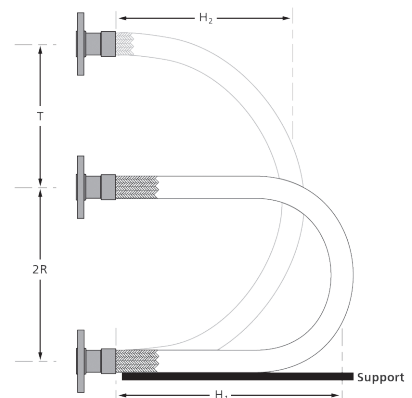
$$H_1 = 1.43 R + 0.79T$$

$$H_2 = 1.43R + T/2$$

L and R as previous

T = Total travel (mm)

H = Hang Length of the Loop (mm)



OFFSET CHART FOR DETERMINING PERMISSIBLE LIVE LENGTH

Procedure:

To determine the required live length of an application, consult the data sheets on pages I 041 and I 042 to learn the allowable Dynamic Bend radius for the proposed hose diameter.

Locate the corresponding Dynamic Bend Radius in the left column of the Tabulation below, and look across the row until you intersect with the column that corresponds to the desired offset for the application.

The figure given at the intersecting point will be the required live length.

Remember that the allowable offset must never exceed 25% of the Dynamic Bend Radius

Example:

If you have chosen 2" or 50mm ID Superflex, the Dynamic Bend radius at 20°C is 300 mm.

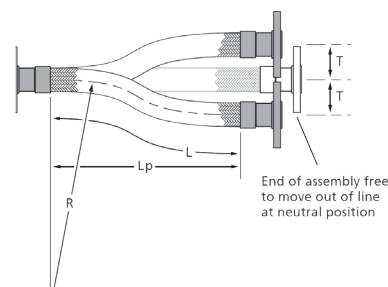
The maximum allowable offset will be 25% of 300 mm, or 75mm

Assume an offset of 50 mm

The intersection of a 300mm radius x 50 mm offset yields the required minimum live length of 304 mm

If the offset is to occur on both sides of the centreline, the offset figure must be doubled, in which case the minimum allowable Dynamic Bend Radius will be (2 x 50mm) x 4 or 400 mm

A 100mm Superflex ID hose would be needed to achieve such a radius, along with a live length of at least 500mm



$$L = \sqrt{6(RT) + T^2}$$

The chart below derives the minimum live length (mm) in accordance with the above formula

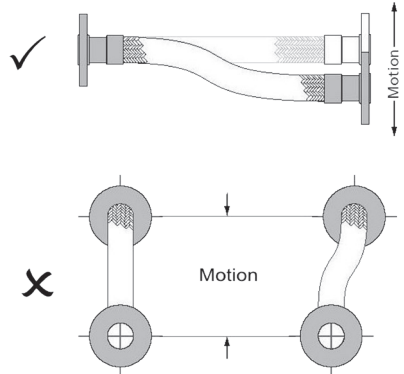
Use an offset figure of 5 mm in conjunction with the bend radius of the selected hose if you need only to cater for normal industrial vibration

| Bend Radius mm | Offset T (mm) | | | | | | | | | | | | | | |
|-------------------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|
| | 5 | 10 | 15 | 20 | 25 | 38 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 |
| 12 | 20 | 29 | 36 | 43 | 49 | 65 | 78 | 94 | 110 | 131 | 157 | 182 | 233 | 284 | 334 |
| 25 | 28 | 40 | 50 | 58 | 66 | 85 | 100 | 118 | 136 | 158 | 185 | 212 | 265 | 316 | 367 |
| 50 | 39 | 56 | 69 | 80 | 90 | 113 | 132 | 154 | 174 | 200 | 230 | 260 | 316 | 371 | 424 |
| 75 | 48 | 68 | 84 | 97 | 109 | 136 | 158 | 183 | 206 | 235 | 268 | 300 | 361 | 418 | 474 |
| 100 | 55 | 78 | 96 | 111 | 125 | 156 | 180 | 208 | 233 | 265 | 301 | 335 | 400 | 461 | 520 |
| 125 | 61 | 87 | 107 | 124 | 139 | 173 | 200 | 230 | 258 | 292 | 331 | 367 | 436 | 500 | 561 |
| 150 | 67 | 95 | 117 | 136 | 152 | 189 | 218 | 250 | 280 | 316 | 358 | 397 | 469 | 536 | 600 |
| 175 | 73 | 103 | 126 | 146 | 164 | 203 | 235 | 269 | 301 | 339 | 383 | 424 | 500 | 570 | 636 |
| 200 | 78 | 110 | 135 | 156 | 175 | 217 | 250 | 287 | 320 | 361 | 407 | 450 | 529 | 602 | 671 |
| 225 | 82 | 117 | 143 | 166 | 185 | 230 | 265 | 303 | 338 | 381 | 429 | 474 | 557 | 632 | 704 |
| 250 | 87 | 123 | 151 | 174 | 195 | 242 | 278 | 319 | 356 | 400 | 451 | 497 | 583 | 661 | 735 |
| 300 | 95 | 135 | 165 | 191 | 214 | 264 | 304 | 348 | 388 | 436 | 491 | 541 | 632 | 716 | 794 |
| 350 | 103 | 145 | 178 | 206 | 230 | 285 | 328 | 375 | 418 | 469 | 527 | 581 | 678 | 766 | 849 |
| 400 | 110 | 155 | 190 | 220 | 246 | 304 | 350 | 400 | 445 | 500 | 562 | 618 | 721 | 814 | 900 |
| 450 | 116 | 165 | 202 | 233 | 261 | 323 | 371 | 424 | 472 | 529 | 594 | 654 | 762 | 859 | 949 |
| 500 | 123 | 173 | 213 | 246 | 275 | 340 | 391 | 446 | 496 | 557 | 625 | 687 | 800 | 901 | 995 |
| 550 | 129 | 182 | 223 | 258 | 288 | 356 | 409 | 468 | 520 | 583 | 654 | 719 | 837 | 942 | 1039 |
| 600 | 134 | 190 | 233 | 269 | 301 | 372 | 427 | 488 | 543 | 608 | 682 | 750 | 872 | 981 | 1082 |
| 650 | 140 | 198 | 242 | 280 | 313 | 387 | 444 | 508 | 564 | 632 | 709 | 779 | 906 | 1019 | 1122 |
| 750 | 150 | 212 | 260 | 301 | 336 | 415 | 477 | 545 | 605 | 678 | 760 | 835 | 970 | 1090 | 1200 |
| 900 | 164 | 233 | 285 | 329 | 368 | 455 | 522 | 596 | 662 | 742 | 831 | 912 | 1058 | 1188 | 1308 |
| 1000 | 173 | 245 | 300 | 347 | 388 | 479 | 550 | 628 | 697 | 781 | 875 | 960 | 1114 | 1250 | 1375 |
| 1150 | 186 | 263 | 322 | 372 | 416 | 513 | 589 | 673 | 747 | 837 | 937 | 1028 | 1192 | 1337 | 1470 |
| 1300 | 198 | 279 | 342 | 395 | 442 | 546 | 626 | 715 | 794 | 889 | 995 | 1092 | 1265 | 1419 | 1559 |
| 1450 | 209 | 295 | 362 | 418 | 467 | 576 | 661 | 755 | 838 | 938 | 1050 | 1152 | 1334 | 1496 | 1643 |
| 1600 | 219 | 310 | 380 | 439 | 491 | 605 | 695 | 793 | 880 | 985 | 1103 | 1209 | 1400 | 1569 | 1723 |
| 1750 | 229 | 324 | 397 | 459 | 513 | 633 | 726 | 829 | 920 | 1030 | 1152 | 1264 | 1463 | 1639 | 1800 |

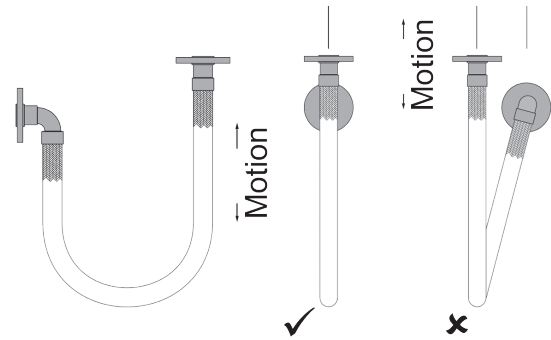
IMPORTANT INSTALLATION GUIDELINES FOR METALLIC HOSES

It is essential to avoid twist during installation.

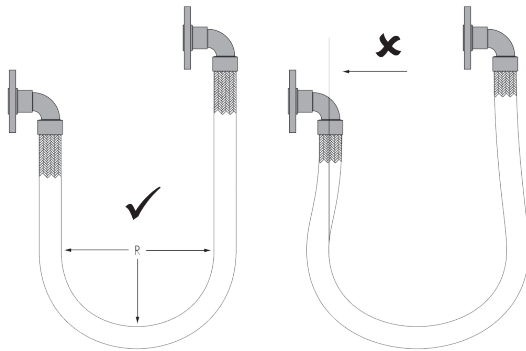
- Use rotating flanges, pipe unions or female nuts as aids
- Tighten using 2 wrenches to oppose induced torque action
- Avoid the dangers depicted in the diagrams below:



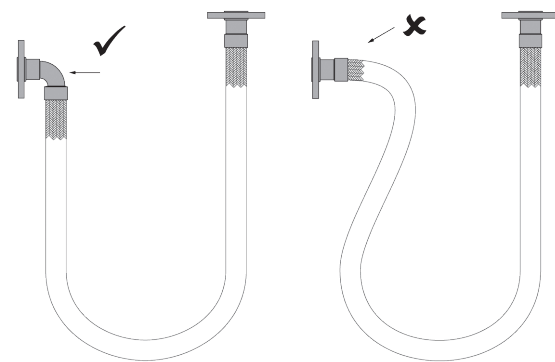
Hose flexing must occur in one plane only



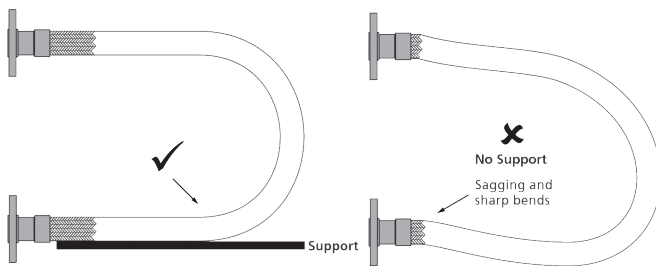
Avoid out of plane flexing



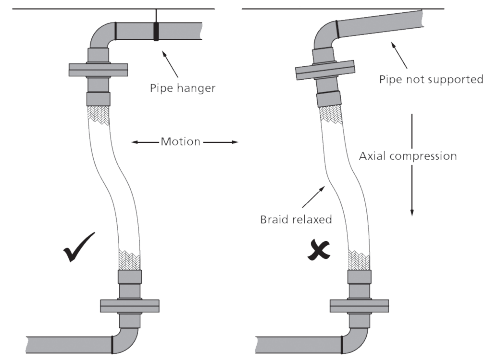
Avoid over-bending



Avoid sharp bends



Provide support



Do not extend / compress axially

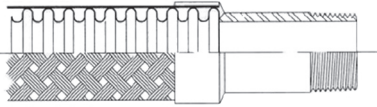
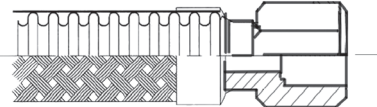
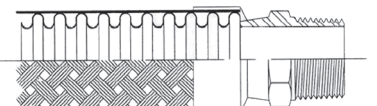
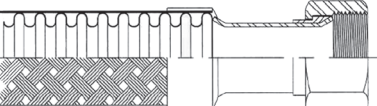
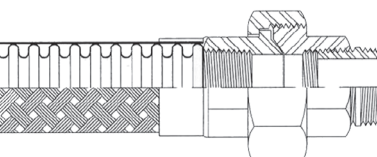
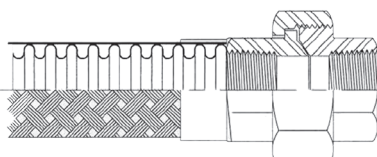
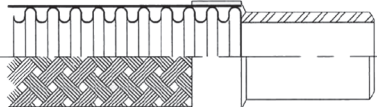
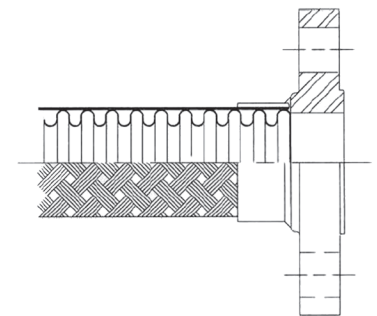
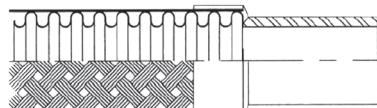
DO

- Use care when handling flexible metallic hoses
- Ensure the bend is as near central as possible
- Conform to the bend radius specifications
- Test fit threaded connectors by hand first
- Use the live length dictated by the constraints
- Apply spanners to the hex flats provided
- Take account of possible ground movement
- Allow a 50 mm straight section at each fitting
- Keep the hose clear of external objects / debris
- Allow for future disassembly
- Ensure rated pressure allows for impulse / temp.

DO NOT

- Allow twist when installing or tightening
- 'Pre-flex' a hose to limber it up
- Over-bend an assembly. Use an elbow if needed
- Install with the bend adjacent to an end fitting
- Have uneven supports under the assembly
- Stretch / compress a hose to aid installation
- Allow interaction with components that would serve to inhibit flexing movements
- Allow flow velocity to exceed stated limits

END FITTINGS

| | | |
|---|--|---|
|  Plain Male Threaded Pipe |  Fixed Female | Fittings of all configurations and materials are available, including <ul style="list-style-type: none"> Kamlok (Cam & Groove) Quick Disconnect Victaulic fittings Socket Weld Elbows Tees Flanged Unions Hydraulic Flanged connections comply with customer requirements, including AS 2129 Table D AS 2129 Table E ANSI DIN Common drilling patterns are to be found in the Kamlok section of the Industrial Fittings Catalogue. |
|  Hex Male Nipple |  Female Swivel | |
|  Male Swivel Union |  Female Union | |
|  Welding Stub |  Fixed Flange | |
|  Plain Pipe End | | |

SPECIAL APPLICATIONS

Jacketed (Duplex) Hose

Consisting of a hose within a hose, these allow the conduct of 2 separate media.

Examples of use include:

- Cryogenic applications with a vacuum in the outer skin to provide insulating properties
- Steam jacketed assemblies to facilitate transport of viscous materials

Oxygen Lance Hoses

Including the use of a liner to reduce turbulence, and reinforced ends or special fittings

Vibration Eliminators

With female copper tube ends cleaned, dehydrated and capped for refrigeration service

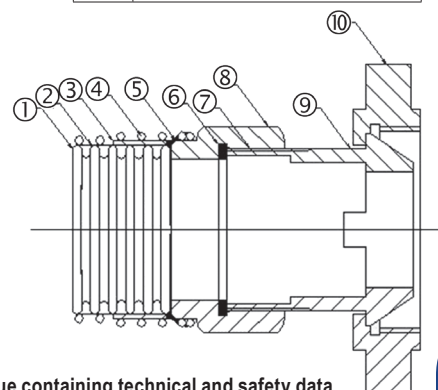
Bottom Loading Hoses

For road tanker service

Bitumen Hoses (illustrated at right)

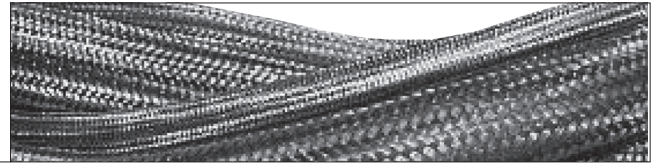
An economical solution using reusable AS2475 end fittings and lightweight design for superlative handling characteristics

| Legend | |
|--------|---------------------------------|
| 1 | SS316 Convuluted Hose |
| 2 | SS3054 Braid |
| 3 | SS304 Weld Ring |
| 4 | Galvanised Armour Wire |
| 5 | Hose to Fitting Weld |
| 6 | High Temperature Gasket |
| 7 | High Temperature Thread Sealant |
| 8 | SS316 BSPP Female Hex Nut |
| 9 | Bronze / Aluminium Lock Cone |
| 10 | Bronze / Aluminium Swivel Nut |



CTBRAID

BRAIDED STAINLESS STEEL WIRE



Construction

Braided 304 stainless steel wire

Available as full coils or cut to length

Applications

Economical hose protection resistant to molten splash, oils, most chemicals, and corrosive environments

Ideal for armoring hydraulic and industrial hoses and electrical cables without losing flexibility

Electrical continuity between armour and end fittings is easily provided if static electricity needs to be dissipated

Reference Specifications

Attachment:

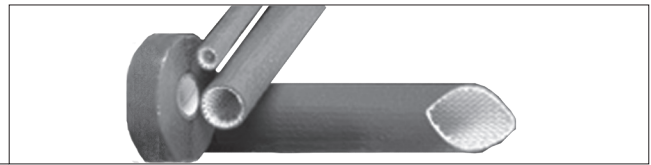
Stainless steel crimp rings (below)

| Product Code | DN Dash Size | Nominal ID |
|--------------|--------------|------------|
| | | mm |
| CTBRAID-006 | 6 | 11 |
| CTBRAID-008 | 8 | 14 |
| CTBRAID-010 | 10 | 18 |
| CTBRAID-012 | 12 | 21 |
| CTBRAID-016 | 16 | 25 |
| CTBRAID-020 | 20 | 30 |
| CTBRAID-025 | 25 | 37 |
| CTBRAID-032 | 32 | 44 |
| CTBRAID-040 | 40 | 54 |
| CTBRAID-050 | 50 | 68 |
| CTBRAID-065 | 65 | 86 |
| CTBRAID-080 | 80 | 99 |
| CTBRAID-100 | 100 | 121 |

CTxxSL

SILCO SLEEVE

INDUSTRIAL / AEROSPACE



Construction

Industrial:

knitted fibre glass yarn in a flexible substrate coated with high grade silicone rubber

Aerospace:

braided fibre glass yarns in a flexible substrate coated with high grade silicone rubber

Applications

Designed to protect hose, wire and cable from the hazards of high heat and occasional flame. Both products will protect continuously to 260° C and withstand molten splash to 1200° C.

The silicone coating is resistant to hydraulic fluids, lubricating oils, and fuels.

The products insulate against energy loss from conduits, protect personnel from burns, and facilitate bundling of wire, hoses and cables.

Reference Specifications

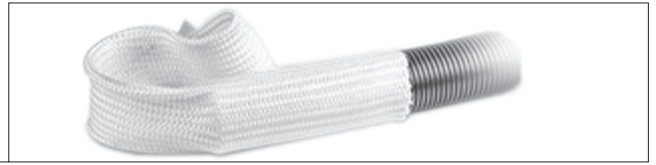
Aerospace braided silco sleeve allows qualified hose assemblies to pass AS1055D testing under stated flow and pressure conditions.

Attachment & Sealing:

Silco Tape in either 25 mm or 45 mm widths. The tape has equivalent properties to the sleeving.

| Product Codes | | SAE Dash Size | Nominal ID | | Recommended Silco Tape | Weight kg / 30 metre | | Box Size |
|---------------|------------|---------------|------------|-----|------------------------|----------------------|-----------|----------|
| Industrial | Aerospace | | ins | mm | | Industrial | Aerospace | m |
| CTINSL-006 | CTAESL-006 | 4 | 1/4 | 6 | CTSITA-025 | 2.90 | 3.57 | 30 |
| CTINSL-010 | CTAESL-010 | 6 | 3/8 | 10 | | 3.84 | 4.78 | 30 |
| CTINSL-013 | CTAESL-013 | 8 | 1/2 | 13 | | 4.69 | 5.76 | 30 |
| CTINSL-016 | CTAESL-016 | 10 | 5/8 | 16 | | 5.36 | 6.21 | 30 |
| CTINSL-019 | CTAESL-019 | 12 | 3/4 | 19 | | 7.05 | 7.19 | 30 |
| CTINSL-022 | CTAESL-022 | 14 | 7/8 | 22 | | 7.28 | 8.48 | 30 |
| CTINSL-025 | CTAESL-025 | 16 | 1 | 25 | | 7.99 | 9.96 | 30 |
| CTINSL-029 | CTAESL-029 | 18 | 1.1/8 | 29 | | 9.20 | 10.49 | 30 |
| CTINSL-032 | CTAESL-032 | 20 | 1.1/4 | 32 | | 10.36 | 11.83 | 30 |
| CTINSL-035 | CTAESL-035 | 22 | 1.3/8 | 35 | | 11.70 | 13.39 | 30 |
| CTINSL-038 | CTAESL-038 | 24 | 1.1/2 | 38 | | 12.19 | 14.29 | 30 |
| CTINSL-041 | CTAESL-041 | 26 | 1.5/8 | 41 | | 14.33 | 15.72 | 30 |
| CTINSL-044 | CTAESL-044 | 28 | 1.3/4 | 44 | | 15.09 | 19.29 | 30 |
| CTINSL-051 | CTAESL-051 | 32 | 2 | 51 | | 15.76 | 20.14 | 30 |
| CTINSL-057 | CTAESL-057 | 36 | 2.1/4 | 57 | | 18.75 | 22.14 | 30 |
| CTINSL-064 | CTAESL-064 | 40 | 2.1/2 | 64 | | 20.76 | 22.32 | 30 |
| CTINSL-070 | CTAESL-070 | 44 | 2.3/4 | 70 | | 21.88 | 26.25 | 30 |
| CTINSL-076 | CTAESL-076 | 48 | 3 | 76 | 24.29 | 30.80 | 30 | |
| CTINSL-083 | CTAESL-083 | 52 | 3.1/4 | 83 | 25.18 | 34.02 | 30 | |
| CTINSL-089 | CTAESL-089 | 56 | 3.1/2 | 89 | 27.32 | 35.27 | 30 | |
| CTINSL-095 | CTAESL-095 | 60 | 3.3/4 | 95 | 29.47 | 40.18 | 30 | |
| CTINSL-102 | CTAESL-102 | 64 | 4 | 102 | 31.78 | 42.41 | 30 | |
| CTINSL-114 | | 72 | 4.1/2 | 114 | 43.31 | | 30 | |
| CTINSL-127 | | 80 | 5 | 127 | 51.34 | | 30 | |

CTSISL SILICA SLEEVE



Construction

96% pure SiO₂ braided silica fibre

Applications

The best temperature resisting characteristics of all textile sleeves

Suited to continuous exposure at 982° C, and

short term exposure to 1650° C

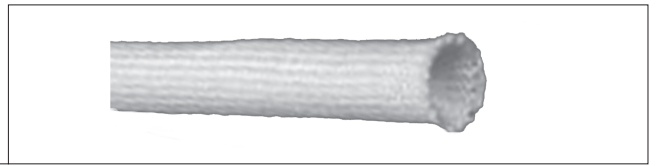
Commonly used in conjunction with braided stainless steel sleeve when combating high temperatures in abrasive environments

Reference Specifications

Attachment:

Stainless steel crimp rings. See page E 047

CTFGSL FIBREGLASS SLEEVE



Construction

High quality Type E braided fiberglass that will not burn.

Can withstand continuous exposure to 540°C

Resistant to the majority of acids and alkalis

Unaffected by bleaches and solvents

Highly flexible

Applications

Economical hose and cable protection where exposure to molten splash, oils or moisture is not a factor

Ideal general purpose temperature insulation and protection

Applications include boiler, coke oven, industrial oven, and wood stove doors; crucible packing, pollution control equipment; and pipe wrap.

Anywhere the goal is keeping heat in its place.

Reference Specifications

ASTM D-578, ASTM committee D13, and subcommittee D13.18.

Attachment:

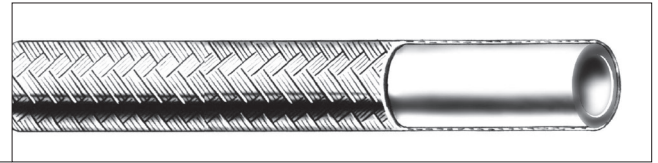
Stainless steel crimp rings. See page E 047

| Product Codes | | DN Dash Size | Nominal ID mm | Box Size m |
|---------------|-------------------|-----------------|------------------|---------------|
| Silica Sleeve | Fibreglass Sleeve | | | |
| CTSISL-006 | CTFGSL-006 | 6 | 6 | 30 |
| CTSISL-010 | CTFGSL-010 | 10 | 10 | 30 |
| CTSISL-013 | CTFGSL-013 | 13 | 13 | 30 |
| CTSISL-016 | CTFGSL-016 | 16 | 16 | 30 |
| CTSISL-019 | CTFGSL-019 | 19 | 19 | 30 |
| CTSISL-022 | CTFGSL-022 | 22 | 22 | 30 |
| CTSISL-025 | CTFGSL-025 | 25 | 25 | 30 |
| CTSISL-032 | CTFGSL-032 | 32 | 32 | 30 |
| CTSISL-038 | CTFGSL-038 | 38 | 38 | 30 |
| CTSISL-044 | CTFGSL-044 | 44 | 44 | 30 |
| CTSISL-051 | CTFGSL-051 | 51 | 51 | 30 |
| CTSISL-064 | CTFGSL-064 | 64 | 64 | 30 |
| CTSISL-076 | CTFGSL-076 | 76 | 76 | 30 |
| CTSISL-089 | CTFGSL-089 | 89 | 89 | 30 |
| CTSISL-102 | CTFGSL-102 | 102 | 102 | 30 |
| CTSISL-127 | CTFGSL-127 | 127 | 127 | 30 |

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SAE 100R14

PTFE (TEFLON) hose



Construction

Inner Tube:

FDA compliant Khemgard® PTFE smooth bore

Reinforcement:

One braid AISI 304 grade Stainless Steel

Cover:

The reinforcement braid serves as the outer cover

Lay line example: No layline

Applications

Hydraulics, automotive, paints, solvents, marine, food & beverage, steam & compressed air.
Not suitable for cold/hot cycling.

Temperature Range:

-73°C up to +232°C (Refer to below pressure reduction table)

Temp. Range % of working pressure

| | |
|------------------|------|
| -60°C to +40°C | 100% |
| +40°C to +100°C | 90% |
| +100°C to +150°C | 55% |
| +150°C to +200°C | 30% |
| +200°C to +232°C | 10% |

Features:

Non-conductive, food grade easy to clean and sterilize tube. Increased flexibility to withstand continuous vibration or impulse.

Reference Specifications

SAE 100 R14

FDA compliant tube for foods & drinks

Vacuum Rating

| |
|-----------------------|
| -0.9 Bar (-3 to -8) |
| -0.5 Bar (-10 to -12) |
| -0.4 Bar (-16) |

Limitations:

Not recommended for steam / cold water recycling

| "Product Code" | "SAE Dash Size" | Nominal ID | | Average OD | Pressure (Bar) | | Min. Bend radius | Weight |
|----------------|-----------------|------------|------|------------|----------------|------------|------------------|--------|
| | | mm | in | | W.P* | Min. Burst | | |
| R14-03 | 4 | 4.8 | 3/16 | 7.6 | 207 | 828 | 35 | 0.11 |
| R14-04 | 5 | 6.3 | 1/4 | 8.9 | 207 | 828 | 45 | 0.13 |
| R14-05 | 6 | 7.8 | 5/16 | 10.9 | 172 | 688 | 50 | 0.19 |
| R14-06 | 7 | 9.4 | 3/8 | 12.4 | 155 | 620 | 55 | 0.22 |
| R14-08 | 10 | 12.7 | 1/2 | 15.7 | 121 | 484 | 70 | 0.31 |
| R14-10 | 12 | 16.0 | 5/8 | 19.0 | 103 | 412 | 130 | 0.37 |
| R14-12 | 14 | 19.0 | 3/4 | 22.1 | 76 | 304 | 190 | 0.48 |
| R14-16 | 18 | 25.4 | 1 | 29.2 | 62 | 248 | 270 | 0.66 |

* Refer to above pressure reduction table

IPAF

PIRTEK CLASS-FLEX AIR



Construction

Inner Tube:

Black smooth PVC compound. Oil mist resistant

Reinforcement:

One braid of high strength synthetic cord

Cover:

Blue smooth PVC compound. UV stabilised to resist ageing, weather and ozone. Especially formulated to retain flexibility in cold conditions

Applications

Commonly used as a general purpose air / water transfer hose by tradespeople. eg. compressor supply to air tools

Temperature Range:

-15°C up to +60°C

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

Conforms to AS/NZ 2554 Class B

Limitations:

Pressure rating applies at 20 °C and reduces as temperature increases

Hose Tails:

Quick connect air fittings
Industrial brass fittings

Lay line example: Black text on blue background. Note comment above

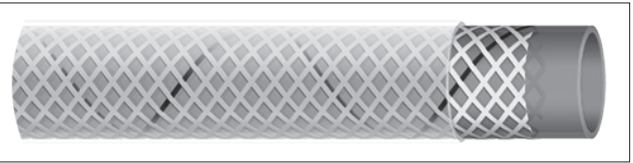
PIRTEK CLASS-FLEX AIR IPAF-008 20 BAR (290 psi) W.P. AS/NZS 2554 CLASS B

| Product Code | Nominal ID | | OD mm | Pressure bar | | Weight Kg/m |
|--------------|------------|------|----------|--------------|-----------|----------------|
| | mm | in | | working | min burst | |
| IPAF-006 | 6.0 | 1/4 | 11.5 | 20 | 80 | 0.13 |
| IPAF-008 | 8.0 | 5/16 | 14.0 | 20 | 80 | 0.13 |
| IPAF-010 | 10.0 | 3/8 | 16.6 | 20 | 80 | 0.18 |
| IPAF-013 | 12.5 | 1/2 | 18.9 | 20 | 80 | 0.22 |
| IPAF-019 | 19.0 | 3/4 | 26.5 | 16 | 64 | 0.51 |

Refer Pirtek for available coil lengths

IPCF

PIRTEK CLASS-FLEX CLEAR



Construction

Inner Tube:

Transparent food grade PVC

Reinforcement:

High strength synthetic cord

Cover:

Transparent PVC with red tracer

Applications

Versatile pressure hose suited to a wide range of air, potable water, food, and petroleum products

Temperature Range:

-5°C up to +60°C

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

AS2070

Limitations:

Pressure rating applies at 20 °C and reduces as temperature increases

Hose Tails:

Quick connect air fittings
Industrial brass fittings

Lay line example: Black text on transparent background with red trace line. Note comment above

PIRTEK CLASS FLEX CLEAR IPCF-008 14 BAR (200 psi) WORK.PRESS. MEETS AS2070

| Product Code | Nominal ID | | OD mm | Pressure bar | | Weight Kg/m |
|--------------|------------|-------|----------|--------------|-----------|----------------|
| | mm | in | | working | min burst | |
| IPCF-006 | 6.0 | 1/4 | 10.2 | 14 | 56 | 0.08 |
| IPCF-008 | 8.0 | 5/16 | 12.4 | 14 | 56 | 0.10 |
| IPCF-010 | 10.0 | 3/8 | 15.0 | 14 | 56 | 0.14 |
| IPCF-013 | 12.5 | 1/2 | 18.1 | 14 | 56 | 0.19 |
| IPCF-016 | 16.0 | 5/8 | 22.8 | 14 | 56 | 0.30 |
| IPCF-019 | 19.0 | 3/4 | 27.6 | 14 | 56 | 0.40 |
| IPCF-025 | 25.0 | 1 | 33.4 | 14 | 56 | 0.54 |
| IPCF-032 | 32.0 | 1.1/4 | 41.8 | 12 | 48 | 0.97 |
| IPCF-038 | 38.0 | 1.1/2 | 49.8 | 12 | 48 | 1.32 |
| IPCF-051 | 51.0 | 2 | 64.2 | 9 | 36 | 2.12 |

Refer Pirtek for available coil lengths

IPAW

PIRTEK CLASS-FLEX AIR / WATER



Construction

Inner Tube:

Black smooth low friction PVC compound

Reinforcement:

One braids of high strength synthetic cord

Cover:

Yellow ribbed PVC compound with distinctive blue stripe. Good resistance to weather and ozone. Excellent abrasion resistance

Applications

General purpose air and water hose with optimum flexibility, resilience & kink resistance. Also suitable for some chemicals

Temperature Range:

-5°C up to +60°C

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

Conforms to:
AS2554 Class B (Sizes -006 to -025)
AS2554 Class D (Sizes -032, -038)

Limitations:

Pressure rating applies at 20 °C and reduces as temperature increases
Not suitable for food or petroleum products

Hose Tails:

Quick connect air fittings
Industrial brass fittings
Universal claw couplings

Lay line example: Black text on yellow background. Note comment above

PIRTEK CLASS FLEX AIR WATER IPAW-013 20 BAR (290 psi) WORK.PRESS. AS2554 Class B

| Product Code | Nominal ID | | OD mm | Pressure bar | | Weight Kg/m |
|--------------|------------|-------|----------|--------------|-----------|----------------|
| | mm | in | | working | min burst | |
| IPAW-006 | 6.0 | 1/4 | 12.8 | 20 | 80 | 0.13 |
| IPAW-010 | 10.0 | 3/8 | 16.6 | 20 | 80 | 0.17 |
| IPAW-013 | 12.5 | 1/2 | 19.3 | 20 | 80 | 0.19 |
| IPAW-020 | 20.0 | 3/4 | 29.0 | 16 | 64 | 0.45 |
| IPAW-025 | 25.0 | 1 | 34.6 | 16 | 64 | 0.62 |
| IPAW-032 | 32.0 | 1.1/4 | 43.4 | 16 | 64 | 1.15 |
| IPAW-038 | 38.0 | 1.1/2 | 50.6 | 16 | 64 | 1.56 |

Refer Pirtek for available coil lengths

IPFAW

PVC FRAS AIR/WATER



Construction

Inner Tube:

Black, smooth, conductive PVC compound

Reinforcement:

High strength Polyester

Cover:

Yellow, ribbed, fire & weather resistant PVC with conductive strip connected to inner tube.
Green cover available on request.
non-stocked.

Applications

General purpose air/water hose for use in underground mines. Excellent flexibility in cold conditions

Fire Resistant and Anti-Static

Temperature Range:

-5°C up to +60°C

Standards

Conforms to AS 2660 A and AS/NZS 2554 A

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Hose Tails:

Industrial fittings & clamps
Refer to web catalogue
Section J Industrial Fittings

Lay line example: Black text on yellow background.

PIRTEK IPFAW FRAS AIR/WATER 12.5MM (1/2") 300 PSI (20 BAR) W.P SF 4:1 AS2660/A AS2554/A

| "Product Code" | Nominal ID | | OD (avg) mm | Pressure (Bar) | | BendRadius mm | Weight Kg/mtr | Coil lengths mtr |
|----------------|------------|-------|----------------|----------------|------------|------------------|------------------|---------------------------|
| | mm | ins | | Working | Min. Burst | | | |
| IPFAW-013 | 13 | 1/2 | 21 | 20 | 80 | 100 | 0.30 | 20/100/20 fitted assy* |
| IPFAW-019 | 19 | 3/4 | 28 | 20 | 80 | 150 | 0.42 | 20/100/20 fitted assy* |
| IPFAW-025 | 25 | 1 | 35 | 20 | 80 | 180 | 0.65 | 20/33/100/20 fitted assy* |
| IPFAW-025H | 25 | 1 | 36 | 35 | 140 | 200 | 0.80 | 20/100 |
| IPFAW-032 | 32 | 1.1/4 | 43 | 20 | 80 | 220 | 0.95 | 20/100 |
| IPFAW-038 | 38 | 1.1/2 | 52 | 20 | 80 | 250 | 1.10 | 20/100 |
| IPFAW-051** | 51 | 2 | 63 | 20 | 80 | 320 | 1.70 | 20/100 |

** Available with Green outer cover - IPFAWGN-XXX

* 20mtr assemblies fitted with Type A claw couplings & safety claw clamps available



IPAG

AGRICULTURAL SPRAY



Construction

Inner Tube:

Blue PVC compound resistant to most chemicals

Reinforcement:

One braid of high strength synthetic cord

Cover:

Black smooth PVC compound. UV stabilised and weather resistant

Applications

A premium hose designed for transfer of weedicide / pesticide chemicals.

Temperature Range:

-5°C up to +60°C

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

N/A

Limitations:

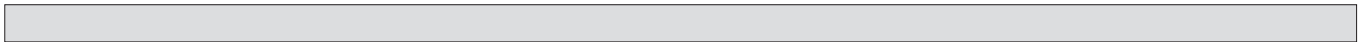
Pressure rating applies at 20 °C and reduces as temperature increases

Not for FDA (Food and Drug Administration) applications

Hose Tails:

Industrial fittings

Lay line example: As per Manufacturer's standards



| Product Code | Nominal ID | | OD mm | Pressure (Bar) | | Weight Kg/m |
|--------------|------------|-------|----------|----------------|------------|----------------|
| | mm | in | | working | min. burst | |
| IPAG-008 | 8 | 5/16 | 14.4 | 21 | 84 | 0.15 |
| IPAG-010 | 10 | 3/8 | 16.4 | 21 | 84 | 0.19 |
| IPAG-013 | 12.5 | 1/2 | 19.0 | 21 | 84 | 0.22 |
| IPAG-019 | 20 | 3/4 | 27.5 | 21 | 84 | 0.42 |
| IPAG-025 | 25 | 1 | 35.2 | 21 | 84 | 0.63 |
| IPAG-032 | 31.5 | 1.1/4 | 42.5 | 21 | 84 | 0.66 |
| IPAG-038 | 38 | 1.1/2 | 52.0 | 21 | 84 | 1.35 |

Refer Pirtek for available coil lengths

IPDP DRUM PUMP



Construction

Inner Tube:

Black PVC nitrile blend highly resistant to hydrocarbons

Reinforcement:

One braid of high strength synthetic cord (25 mm ID includes twin anti-static wires)

Cover:

Black UV stabilised PVC compound

Applications

Transfer of fuels and oils from tanks and drums.

Excellent flexibility at low temperatures

Temperature Range:

-5°C up to +60°C

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

N/A

Limitations:

Pressure rating applies at 20 °C and reduces as temperature increases

Hose Tails:

Low pressure 'L' Series
Industrial brass fittings

Lay line example: As per Manufacturer's standards

| Product Code | Nominal ID | | OD mm | Pressure bar | | Weight Kg/m |
|--------------|------------|-----|----------|--------------|-----------|----------------|
| | mm | in | | working | min burst | |
| IPDP-019 | 19.0 | 3/4 | 27.0 | 10 | 40 | 0.36 |
| IPDP-025 | 25.0 | 1 | 33.5 | 10 | 40 | 0.55 |

Refer Pirtek for available coil lengths

IPPR

PETROL RESISTANT ANTI STATIC



Construction

Inner Tube:

Blue PVC / nitrile blend with excellent resistance to all fuels

Reinforcement:

One braid of high strength synthetic cord. All sizes incorporate twin copper ant-static wires

Cover:

Black ribbed PVC (UV stabilised)

Applications

Dispensing oil, grease, petrol (including ULP) and home heating oils

Temperature Range:

-5°C up to +60°C

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

N/A

Limitations:

Pressure rating applies at 20 °C and reduces as temperature increases

Hose Tails:

Low pressure 'L' Series
Industrial brass fittings
Kamlok couplings

Lay line example: As per Manufacturer's standards



| Product Code | Nominal ID | | OD mm | Pressure bar | | Weight Kg/m |
|--------------|------------|-------|----------|--------------|-----------|----------------|
| | mm | in | | working | min burst | |
| IPPR-025 | 25.0 | 1 | 34.0 | 13 | 53 | 0.60 |
| IPPR-032 | 32.0 | 1.1/4 | 42.0 | 12 | 48 | 0.80 |
| IPPR-040 | 40.0 | 1.1/2 | 52.4 | 10 | 40 | 1.20 |

Refer Pirtek for available coil lengths

IPAB

DIVERS AIR BREATHING



Construction

Inner Tube:

White non-toxic PVC

Reinforcement:

One braid of high strength synthetic cord

Cover:

Smooth yellow UV stabilised "pin-pricked" PVC compound

Applications

Approved divers air breathing apparatus.

Breathing equipment in spray booths and sandblasting applications

Temperature Range:

-5°C up to +60°C

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

AS2299 and AS/NZ1716

Limitations:

Pressure rating applies at 20 °C and reduces as temperature increases

Poor petroleum resistance

Hose Tails:

OEM product or stainless steel preferred

Lay line example: As per Manufacturer's standards

| Product Code | Nominal ID | | OD mm | Pressure bar | | Weight Kg/m |
|--------------|------------|------|----------|--------------|-----------|----------------|
| | mm | in | | working | min burst | |
| IPAB-008 | 8.0 | 5/16 | 14.3 | 16 | 64 | 0.14 |
| IPAB-010 | 10.0 | 3/8 | 17.0 | 25 | 100 | 0.22 |

Refer Pirtek for available coil lengths

IPEB

ESTATE - BLUELINE



Construction

Inner Tube:

Black PVC

Reinforcement:

One braid of high strength synthetic cord

Cover:

Smooth white UV stabilised PVC with 2 distinctive blue stripes

Applications

Watering parks and gardens and commercial applications

Temperature Range:

-5°C up to +60°C

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

N/A

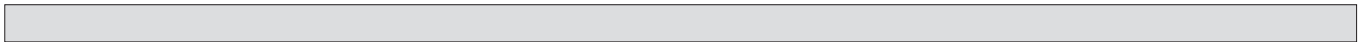
Limitations:

Pressure rating applies at 20 °C and reduces as temperature increases

Hose Tails:

Standard garden hose fittings
Industrial brass fittings

Lay line example: As per Manufacturer's standards

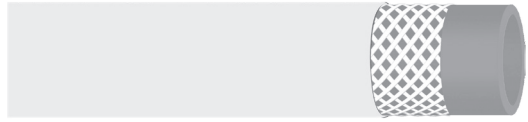


| Product Code | Nominal ID | | OD mm | Pressure bar | | Weight Kg/m |
|--------------|------------|-------|----------|--------------|-----------|----------------|
| | mm | in | | working | min burst | |
| IPEB-013 | 12.5 | 1/2 | 19.0 | 10 | 40 | 0.22 |
| IPEB-019 | 19.0 | 3/4 | 26.5 | 10 | 40 | 0.40 |
| IPEB-025 | 25.0 | 1 | 34.0 | 10 | 40 | 0.58 |
| IPEB-032 | 32.0 | 1.1/4 | 42.5 | 10 | 40 | 0.85 |
| IPEB-038 | 38.0 | 1.1/2 | 49.5 | 10 | 40 | 1.11 |

Refer Pirtek for available coil lengths

IPHW

HOT WASH - WHITE



Construction

Inner Tube:

White PVC

Reinforcement:

One braid of high strength synthetic cord

Cover:

Smooth white TPR (thermoplastic rubber). Good UV resistance. Resistant to lactic acids and fats

Applications

Hot washdown hose for retail and food preparation areas

Temperature Range:

-5°C up to +85°C
(pressure rating reduces above 20°C)

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

N/A

Limitations:

Pressure rating applies at 20 °C and reduces as temperature increases

Hose Tails:

Industrial stainless steel and brass fittings

Lay line example: As per Manufacturer's standards

| Product Code | Nominal ID | | OD mm | Pressure bar | | Weight Kg/m |
|--------------|------------|-----|----------|--------------|-----------|----------------|
| | mm | in | | working | min burst | |
| IPHW-013 | 13.0 | 1/2 | 19.7 | 20 | 80 | 0.28 |
| IPHW-019 | 19.0 | 3/4 | 28.0 | 18 | 70 | 0.48 |

Refer Pirtek for available coil lengths

IPRW RECLAIMED WATER



Construction

Inner Tube:

Black PVC

Reinforcement:

One braid of high strength synthetic cord

Cover:

Smooth lilac PVC branded "RECLAIMED WATER NOT FOR DRINKING" as per international standards

Applications

Watering parks and gardens and commercial applications

Temperature Range:

-5°C up to +60°C

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

N/A

International standard Lilac colour for reclaimed water

Limitations:

Pressure rating applies at 20 °C and reduces as temperature increases

Hose Tails:

Domestic garden tap fittings with left hand thread
Industrial brass fittings (refer applicable Local Gov't. Regulations)

Lay line example: As per Manufacturer's standards

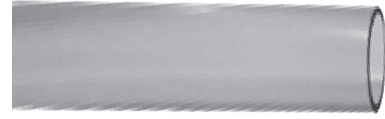


| Product Code | Nominal ID | | OD mm | Pressure bar | | Weight Kg/m |
|--------------|------------|-----|----------|--------------|-----------|----------------|
| | mm | in | | working | min burst | |
| IPRW-019 | 19.0 | 3/4 | 25.5 | 10 | 40 | 0.27 |
| IPRW-025 | 25.0 | 1 | 34.4 | 10 | 40 | 0.60 |

Refer Pirtek for available coil lengths

IPCVT

NON - TOXIC CLEAR VINYL TUBING



Construction

Inner Tube:
Clear non-toxic PVC

Reinforcement:
Nil

Cover:
N/A

Applications

Suitable for food and beverage fluids and for low pressure drainage. Petroleum products resistant

Temperature Range:
-5°C up to +60°C

Comment:
Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

AS2070

Limitations:
Pressure rating applies at 20 °C and reduces as temperature increases

Hose Tails:
Industrial fittings
Low pressure brass or stainless steel

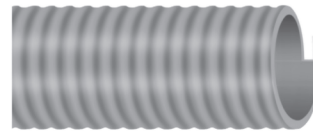
Lay line example: Not applicable

| Product Code | Nominal ID | | OD mm | Pressure bar | | Weight Kg/m |
|--------------|------------|-------|----------|--------------|-----------|----------------|
| | mm | in | | working | min burst | |
| IPCVT-003 | 3.0 | 1/8 | 5.0 | 9 | 27 | 0.017 |
| IPCVT-005 | 5.0 | 3/16 | 8.0 | 8 | 24 | 0.042 |
| IPCVT-006 | 6.0 | 1/4 | 9.0 | 6 | 18 | 0.048 |
| IPCVT-008 | 8.0 | 5/16 | 11.0 | 5 | 15 | 0.061 |
| IPCVT-010 | 10.0 | 3/8 | 13.0 | 4 | 12 | 0.074 |
| IPCVT-012 | 12.5 | 1/2 | 15.5 | 5 | 15 | 0.090 |
| IPCVT-016 | 16.0 | 5/8 | 19.0 | 4 | 12 | 0.113 |
| IPCVT-019 | 19.0 | 3/4 | 23.0 | 4 | 12 | 0.181 |
| IPCVT-025 | 25.0 | 1 | 31.0 | 4 | 12 | 0.360 |
| IPCVT-032 | 32.0 | 1.1/4 | 38.0 | 3 | 9 | 0.452 |
| IPCVT-038 | 38.0 | 1.1/2 | 46.0 | 3 | 9 | 0.712 |
| IPCVT-050 | 50.0 | 2 | 60.0 | 3 | 9 | 1.165 |

Refer Pirtek for available coil lengths

IPHG

PIRTEK CLASS HELIX-GREY



Construction

Inner Tube:

Opaque grey

Reinforcement:

lear to pastel coloured rigid spiral reinforcement

Cover:

Grey semi-ribbed PVC compound resistant to ageing, weather and ozone. Excellent UV resistance

Applications

A tough, flexible suction and delivery hose for the transfer of water, concrete, slurry, grain, fertilizers and foams etc. A smooth bore reduces turbulence & increases pumping & suction efficiency.

Temperature Range:

-5°C up to +60°C

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

Limitations:

Pressure rating applies at 20 °C and reduces as temperature increases

Hose Tails:

Industrial fittings
Kamloks
Stainless steel bands and clamps

Lay line example: Black text on grey background. Note comment above

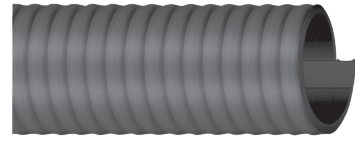
PIRTEK CLASS HELIX-GREY IPHG-102 5 bar (75 psi) WORK. PRESS

| Product Code | Nominal ID | | OD mm | Pressure bar | | | Min bend radius mm | Weight Kg/m |
|--------------|------------|-------|----------|--------------|-----------|--------|-----------------------|----------------|
| | mm | in | | working | min burst | vacuum | | |
| IPHG-038 | 38.4 | 1.1/2 | 45.6 | 7.5 | 24.0 | 0.9 | 200 | 0.69 |
| IPHG-050 | 50.0 | 2 | 59.6 | 6.5 | 21.0 | 0.9 | 270 | 1.07 |
| IPHG-063 | 63.7 | 2.1/2 | 73.3 | 5.5 | 18.0 | 0.9 | 330 | 1.51 |
| IPHG-076 | 76.0 | 3 | 88.0 | 5.5 | 18.0 | 0.9 | 440 | 2.26 |
| IPHG-102 | 102.2 | 4 | 116.0 | 4.5 | 15.0 | 0.9 | 620 | 3.17 |

Refer Pirtek for available coil lengths

IPHB

PIRTEK CLASS HELIX-BLUE



Construction

Inner Tube:

Blue smooth PVC compound formulated for oil resistance

Reinforcement:

White PVC spiral rib

Cover:

Blue ribbed PVC compound resistant to ageing, weather and ozone

Applications

Extremely flexible oil resistant suction and discharge hose suitable for diesel oil, mineral oil, lubricating oils, various petroleum grades, petroleum derivatives, light chemicals etc. Ideal for grease trap waste truck tankers

Temperature Range:

-5°C up to +60°C

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

Limitations:

Pressure rating applies at 20 °C and reduces as temperature increases

Hose Tails:

Kamloks
Industrial fittings
Stainless steel bands and clamps

Lay line example: Black text on blue background. Note comment above

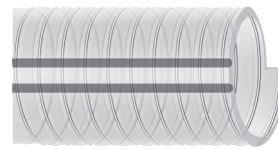
PIRTEK HELIX-BLUE IPHB-051 4.5 bar (65 psi) WORK. PRESS

| Product Code | Nominal ID | | OD mm | Pressure bar | | | Min. bend radius mm | Weight Kg/m |
|--------------|------------|-------|----------|--------------|-----------|--------|------------------------|----------------|
| | mm | in | | working | min burst | vacuum | | |
| IPHB-025 | 25.0 | 1 | 32.5 | 6.5 | 19.5 | 0.9 | 100 | 0.41 |
| IPHB-032 | 32.0 | 1.1/4 | 40.4 | 6.5 | 19.5 | 0.9 | 150 | 0.54 |
| IPHB-038 | 38.0 | 1.1/2 | 45.6 | 5.5 | 16.5 | 0.9 | 220 | 0.70 |
| IPHB-050 | 50.0 | 2 | 60.2 | 4.5 | 13.5 | 0.9 | 270 | 1.07 |
| IPHB-063 | 63.0 | 2.1/2 | 73.7 | 4.5 | 13.5 | 0.9 | 325 | 1.50 |
| IPHB-076 | 76.0 | 3 | 87.8 | 4.5 | 13.5 | 0.9 | 420 | 2.25 |
| IPHB-102 | 102.0 | 4 | 115.0 | 4.5 | 13.5 | 0.9 | 660 | 3.00 |

Refer Pirtek for available coil lengths

IPSF

PIRTEK CLASS SPRING FLEX



Construction

Inner Tube:

Clear transparent PVC with glass smooth wall for better fluid flow and hygiene

Reinforcement:

Steel spiral reinforcement embedded in PVC

Cover:

Clear transparent PVC with red and blue tracer

Applications

Hardwall suction hose ideal for vacuum pumps, agricultural machines (fertiliser and air seeder tubes), shipyards, chemical plants, vacuum trucks and suited to transporting of potable water and foodstuffs. Not recommended for fuel.

Temperature Range:

-15°C up to +65°C

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

AS 2070 For food contact use

Limitations:

Pressure rating applies at 20 °C and reduces as temperature increases
Not recommended for petroleum products

Hose Tails:

Industrial fittings
Kamloks
Stainless steel bands and clamps

Lay line example: Black text on transparent background with red and blue trace lines. Note comment above

PIRTEK CLASS SPRING-FLEX IPSF-019 10 BAR (145psi) WORK.PRESS. MEETS AS 2070

| Product Code | Nominal ID | | OD mm | Pressure bar | | | Min bend radius mm | Weight Kg/m |
|--------------|------------|-------|----------|--------------|-----------|--------|-----------------------|----------------|
| | mm | in | | working | min burst | vacuum | | |
| IPSF-012 | 12.0 | 1/2 | 18 | 12 | 36 | 0.9 | 52 | 0.23 |
| IPSF-015 | 15.0 | 5/8 | 22 | 12 | 36 | 0.9 | 64 | 0.32 |
| IPSF-019 | 19.0 | 3/4 | 26 | 11 | 33 | 0.9 | 45 | 0.38 |
| IPSF-025 | 25.0 | 1 | 32 | 10 | 30 | 0.9 | 60 | 0.54 |
| IPSF-032 | 32.0 | 1.1/4 | 39.4 | 9 | 27 | 0.9 | 80 | 0.77 |
| IPSF-038 | 38.0 | 1.1/2 | 45.5 | 8 | 24 | 0.9 | 90 | 0.97 |
| IPSF-050 | 50.0 | 2 | 59 | 6 | 18 | 0.9 | 125 | 1.47 |
| IPSF-063 | 63.0 | 2.1/2 | 80 | 5 | 15 | 0.9 | 160 | 2.25 |
| IPSF-075 | 75.0 | 3 | 86 | 3 | 9 | 0.9 | 200 | 2.75 |

Refer Pirtek for available coil lengths

IPWB

WINE AND BEVERAGE



Construction

Inner Tube:
Clear smooth bore PVC

Reinforcement:
Red PVC spiral rib

Cover:
Clear semi-ribbed PVC compound UV and abrasion resistant

Applications

Suitable for the wine, canning and food packaging industries. Also suited to the transfer of spirits up to 28¼ proof

Temperature Range:
-5°C up to +60°C

Comment:
Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

AS2070

Limitations:
Pressure rating applies at 20 °C and reduces as temperature increases

Hose Tails:
Industrial tails, stainless steel preferred
Stainless steel Kamloks

Lay line example: As per Manufacturer's standards

PIRTEK WINE & BEVERAGE IPWB-051 5 bar (72 psi) WORK. PRESS

| Product Code | Nominal ID | | OD mm | Pressure bar | | | Min. bend radius mm | Weight Kg/m |
|--------------|------------|-------|----------|--------------|-----------|--------|------------------------|----------------|
| | mm | in | | working | min burst | vacuum | | |
| IPWB-025 | 25.0 | 1 | 34.0 | 7 | 21 | 0.9 | 160 | 0.60 |
| IPWB-032 | 32.0 | 1.1/4 | 41.0 | 7 | 21 | 0.9 | 190 | 0.71 |
| IPWB-038 | 38.0 | 1.1/2 | 48.0 | 6 | 18 | 0.9 | 230 | 0.82 |
| IPWB-050 | 50.0 | 2 | 62.0 | 5 | 15 | 0.9 | 290 | 1.20 |
| IPWB-063 | 63.0 | 2.1/2 | 76.0 | 5 | 15 | 0.9 | 360 | 1.73 |
| IPWB-076 | 76.0 | 3 | 90.0 | 5 | 15 | 0.9 | 450 | 2.29 |
| IPWB-102 | 102.0 | 4 | 117.0 | 4 | 12 | 0.9 | 640 | 3.33 |
| IPWB-127 | 127.0 | 5 | 143.0 | 4 | 12 | 0.9 | 900 | 4.58 |
| IPWB-150 | 150.0 | 6 | 170.0 | 3.5 | 10.5 | 0.9 | 1200 | 6.75 |

Refer Pirtek for available coil lengths

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IPBL

'SUNNY' LIGHT DUTY BLUE LAYFLAT

**Construction****Inner Tube:**

Blue smooth low friction PVC compound with fully integrated one piece construction

Reinforcement:

High strength synthetic cord

Cover:

Blue smooth PVC compound fully integrated with inside liner

Applications

Softwall discharge hose for water, other liquids or fertilisers, water supply and irrigation systems and sprinklers. Widely used in industry, construction sites, general dewatering, agriculture etc

Temperature Range:

-0°C up to +60°C

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications**Limitations:**

Pressure rating applies at 20 °C and reduces as temperature increases

Hose Tails:

Kamloks
Bauer couplings
Industrial fittings

Lay line example: As per Manufacturer's standards

| Product Code | Nominal ID | | OD mm | Pressure bar | | Weight Kg/m |
|--------------|------------|-------|----------|--------------|-----------|----------------|
| | mm | in | | working | min burst | |
| IPBL-040 | 40.0 | 1.1/2 | na | 5.0 | 15.0 | 0.21 |
| IPBL-050 | 50.0 | 2 | na | 4.5 | 13.5 | 0.29 |
| IPBL-065 | 65.0 | 2.1/2 | na | 4.0 | 12.0 | 0.40 |
| IPBL-075 | 75.0 | 3 | na | 3.5 | 11.5 | 0.57 |
| IPBL-100 | 100.0 | 4 | na | 3.0 | 9.0 | 0.75 |
| IPBL-150 | 150.0 | 6 | na | 3.0 | 9.0 | 1.25 |

Other sizes available upon request Refer Pirtek for available coil lengths

IPRL 'SUNNY' HEAVY DUTY RED LAYFLAT



Construction

Inner Tube:

Black smooth low friction PVC compound

Reinforcement:

Two braids of high strength synthetic cord with superior bonding to liner and cover

Cover:

Red smooth PVC compound. Highly resistant to abrasion, weather and ozone

Applications

Softwall discharge hose for water, other liquids or fertilisers, water supply and irrigation systems and sprinklers. Widely used in industry, construction sites, dewatering pits, agriculture etc
Also suitable for pumping more abrasive slurries

Temperature Range:

-0°C up to +60°C

Comment:

Lay line example may not be a true indication of current status. Refer Pirtek for current information

Reference Specifications

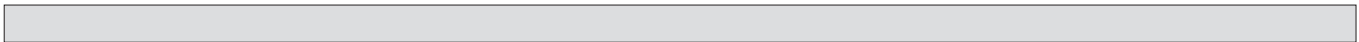
Limitations:

Pressure rating applies at 20 °C and reduces as temperature increases

Hose Tails:

Kamloks
Bauer couplings
Industrial fittings

Lay line example: As per Manufacturer's standards



| Product Code | Nominal ID | | OD mm | Pressure bar | | Weight Kg/m |
|--------------|------------|-------|----------|--------------|-----------|----------------|
| | mm | in | | working | min burst | |
| IPRL-040 | 40.0 | 1.1/2 | na | 10.0 | 30.0 | 0.30 |
| IPRL-050 | 50.0 | 2 | na | 10.0 | 30.0 | 0.42 |
| IPRL-065 | 65.0 | 2.1/2 | na | 10.0 | 30.0 | 0.55 |
| IPRL-075 | 75.0 | 3 | na | 9.0 | 27.0 | 0.66 |
| IPRL-100 | 100.0 | 4 | na | 9.0 | 27.0 | 1.02 |
| IPRL-150 | 150.0 | 6 | na | 7.0 | 21.0 | 1.65 |

Other sizes available upon request Refer Pirtek for available coil lengths

COMPOSITE HOSES

IMPORTANT TECHNICAL ASPECTS

COMPOSITE HOSES IN GENERAL

- Due to the nature of the construction of composite hose and the often hazardous conveyants used, it is strongly recommended that all hoses and fittings be supplied to the user as fitted assemblies
- A wide range of fittings can be supplied such as Kamloks, BSP fittings, flanges etc. Other special couplings for unusual applications can also be supplied. Refer to Section J of this Catalogue for more details
- Ohmlok couplings designed for use in the petroleum industry are available. The Ohmlok coupling has positive connection for both inside and outside wires to the coupling. The wires are secured with two grub screws and both wires can be visually checked to be secured to the anchor blocks by examining the couplings. The electrical connection is not in contact with the conveyant and there is no restriction in bore of fitting to create turbulence or restriction of product flow

SAFETY FACTOR

All hoses have 4:1 safety factor

FUEL TRANSFER HOSES

The Petrol Master range of Code hoses (Codes 901, 1000, 1003) is designed specifically for the demands of the petro-chemical industry. The polypropylene film and fabric construction handle hydrocarbon and base products. The internal and external wire helixes deliver the pressure handling characteristics and a tough PVC coated fabric forms the outer cover

Hoses specifically for the aviation industry and for vapour recovery are also available

Petrol Master Temperature Rating: -20 °C to +80 °C

CHEMICAL TRANSFER HOSES

The Chemiflow range is suitable for the suction and delivery of chemicals. Constructed of polypropylene films and fabrics, the hoses are resistant to most acids, alkalis and solvents. Internal and external helix wires bind the hose together and deliver its pressure handling characteristics and a tough PVC coated fabric cover forms the outer cover

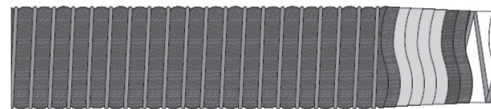
Chemiflow Temperature Rating: -20 °C to +100 °C

NOTE

- All hoses can be rope lagged. Please specify your requirements at time of ordering
- A chemical compatibility chart is included in the Technical Data (Section Q) of Part II of this catalogue

CH901

FUEL CODE



Construction

Inner Materials:

Polypropylene fabrics and film selected according to chemical resistance and strength

Reinforcement:

Internal wire of galvanised steel
External wire of galvanised steel

Outer cover:

External wire of galvanized steel
Black PVC coated Fabric with no identification stripe

Temperature Range:

-20°C up to +80°C

Reference Specifications:

Conforms to AS2117

Type 2; Grade 2; Electrical Kind 1

Pressure Capabilities: Test pressure 2:1; Burst 4:1

Application

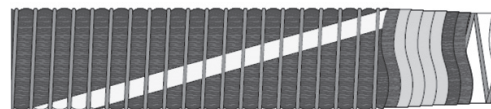
Transfer hoses for fuel, heavy oils and lubricants; transfer from road and rail tankers, storage tanks, production plant and equipment and ship to shore.

| Product Code | Nominal ID | | OD | Pressure (bar) @ 20° C per AS2117 | | | Bend radius | Weight | Coil Length |
|----------------|------------|-----|-----|--------------------------------------|------|-------|-------------|--------|-------------|
| | mm | in | | Working | Test | Burst | | | |
| CH901-025-GG * | 1 | 25 | 37 | 10 | 20 | 40 | 75 | 1.04 | 25 |
| CH901-032-GG * | 1 1/4 | 32 | 43 | 10 | 20 | 40 | 90 | 1.12 | 25 |
| CH901-040-GG * | 1 1/2 | 40 | 51 | 10 | 20 | 40 | 100 | 1.63 | 25 |
| CH901-050-GG | 2 | 50 | 65 | 10 | 20 | 40 | 140 | 1.78 | 25 |
| CH901-065-GG | 2 1/2 | 63 | 76 | 10 | 20 | 40 | 180 | 2.84 | 25 |
| CH901-080-GG | 3 | 76 | 90 | 10 | 20 | 40 | 210 | 3.41 | 25 |
| CH901-100-GG | 4 | 100 | 120 | 10 | 20 | 40 | 340 | 5.52 | 25 |

* These sizes available to special order

CH982

FUEL CODE



Construction

Inner Materials:

Polypropylene fabrics and film selected according to chemical resistance and strength

Reinforcement:

Internal wire of galvanised steel
External wire of galvanised steel

Outer cover:

Blue PVC coated Fabric with yellow identification stripe

Temperature Range:

-20°C up to +80°C

Reference Specifications:

Conforms to AS2117

Type 2/3; Grade 2; Electrical Kind 1

Pressure Capabilities: Test pressure 2:1; Burst 5:1

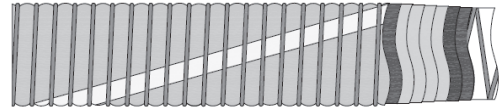
Application

Heavy duty oil transfer hose for ship to shore and dock side.

| Product Code | Nominal ID | | OD | Pressure (bar) @ 20° C per AS2117 | | | Bend radius | Weight | Coil Length |
|--------------|-------------------|----|-----|--------------------------------------|------|-------|-------------|--------|-------------|
| | mm | in | | Working | Test | Burst | | | |
| CH982-100-GG | 100 | 4 | 125 | 14 | 28 | 70 | 400 | 6.61 | 25 |
| CH982-150-GG | under development | | | | | | | | |

CH1000

FUEL CODE



Construction

Inner Materials:

Polypropylene fabrics and film selected according to chemical resistance and strength

Reinforcement:

Internal wire of galvanised steel
External wire of galvanised steel

Outer cover:

Green PVC coated Fabric with yellow identification stripe

Temperature Range:

-20°C up to +80°C

Reference Specifications:

Complies with the AS2683 and BS3492

Type 2; Grade 3; Electrical Kind 1

Pressure Capabilities: Test pressure 2:1; Burst 6:1

Application

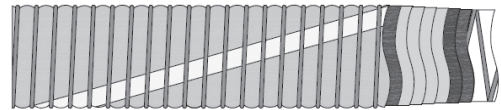
Transfer hoses for road and rail tankers, storage tank, production plant and equipment.

| Product Code | Nominal ID | | OD mm | Pressure (bar) @ 20° C per AS2683 | | | Bend radius mm | Weight Kg/m | Coil Length m |
|-----------------|------------|-------|----------|--------------------------------------|------|-------|-------------------|----------------|------------------|
| | mm | in | | Working | Test | Burst | | | |
| CH1000-025-GG * | 25 | 1 | 37 | 7 | 14 | 42 | 60 | 0.89 | 25 |
| CH1000-032-GG * | 32 | 1 1/4 | 43 | 7 | 14 | 42 | 75 | 1.03 | 25 |
| CH1000-040-GG * | 40 | 1 1/2 | 51 | 7 | 14 | 42 | 75 | 1.58 | 25 |
| CH1000-050-GG | 50 | 2 | 63 | 7 | 14 | 42 | 90 | 1.68 | 25 |
| CH1000-065-GG | 63 | 2 1/2 | 76 | 7 | 14 | 42 | 100 | 2.64 | 25 |
| CH1000-080-GG | 76 | 3 | 90 | 7 | 14 | 42 | 125 | 3.17 | 25 |
| CH1000-100-GG | 100 | 4 | 114 | 7 | 14 | 42 | 200 | 4.05 | 25 |

* These sizes available to special order

CH1001

FUEL CODE HOSE



Construction

Inner Materials:

Polypropylene fabrics and film selected according to chemical resistance and strength

Reinforcement:

Internal wire of galvanised steel
External wire of galvanised steel

Outer cover:

Yellow PVC coated Fabric with no identification stripe

Temperature Range:

-20°C up to +80°C

Reference Specifications:

Complies with the AS2683

Type 2; Grade 3; Electrical Kind 1

Pressure Capabilities: Test pressure 2:1; Burst 6:1

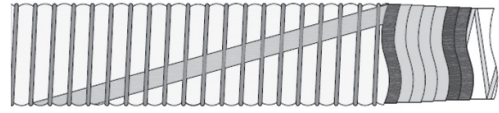
Application

Transfer hoses for storage tank, production plant and equipment with lower operating pressures with a higher flexibility.

| Product Code | Nominal ID | | OD mm | Pressure (bar) @ 20° C per AS2683 | | | Bend radius mm | Weight Kg/m | Coil Length m |
|---------------|------------|-----|----------|--------------------------------------|------|-------|-------------------|----------------|------------------|
| | mm | in | | Working | Test | Burst | | | |
| CH1001-040-GG | 40 | 1.5 | 49 | 4 | 8 | 24 | 65 | 1.48 | 25 |
| CH1001-050-GG | 50 | 2 | 61 | 4 | 8 | 24 | 80 | 1.53 | 25 |
| CH1001-065-GG | 63 | 2.5 | 74 | 4 | 8 | 24 | 90 | 2.53 | 25 |
| CH1001-080-GG | 76 | 3 | 88 | 4 | 8 | 24 | 115 | 3.08 | 25 |
| CH1001-100-GG | 100 | 4 | 112 | 4 | 8 | 24 | 190 | 3.86 | 25 |

CH1003

LIGHT WEIGHT FUEL CODE



Construction

Inner Materials:

Polypropylene fabrics and film selected according to chemical resistance and strength

Reinforcement:

Internal wire of aluminium

External wire of galvanised steel

Outer cover:

Yellow PVC coated Fabric with green identification stripe

Temperature Range:

-20°C up to +80°C

Reference Specifications:

Complies with the AS2683

Type 2; Grade 3; Electrical Kind 1

Pressure Capabilities: Test pressure 2:1; Burst 6:1

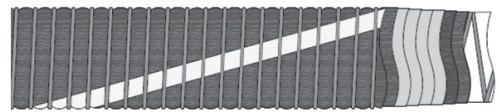
Application

Light weight transfer hoses for storage tank, production plant and equipment with lower operating pressures with a higher flexibility.

| Product Code | Nominal ID | | OD mm | Pressure (bar) @ 20° C per AS2683 | | | Bend radius mm | Weight Kg/m | Coil Length m |
|---------------|------------|-----|----------|--------------------------------------|------|-------|----------------------|----------------|---------------------|
| | mm | in | | Working | Test | Burst | | | |
| CH1003-065-AG | 63 | 2.5 | 74 | 4 | 8 | 24 | 90 | 1.91 | 25 |
| CH1003-080-AG | 76 | 3 | 88 | 4 | 8 | 24 | 115 | 2.37 | 25 |
| CH1003-100-AG | 100 | 4 | 112 | 4 | 8 | 24 | 190 | 2.93 | 25 |

CHVRH

VAPOUR RECOVERY HOSE



Construction

Inner Materials:

Polypropylene fabrics and film selected according to chemical resistance and strength

Reinforcement:

Internal wire of galvanised steel

External wire of galvanised steel

Outer cover:

Black PVC coated Fabric with yellow identification stripe.

Temperature Range:

-20°C up to +80°C

Reference Specifications:

Conforms to AS2683

Type 2; Grade 3; Electrical Kind 1

Pressure Capabilities: Test pressure 2:1; Burst 6:1

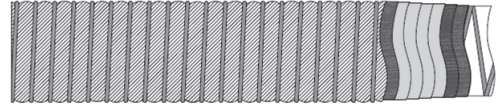
Application

For the collection of hydrocarbon vapors within the oil industry

| Product Code | Nominal ID | | OD mm | Pressure (bar) @ 20° C per AS2683 | | | Bend radius mm | Weight Kg/m | Coil Length m |
|--------------|------------|----|----------|--------------------------------------|------|-------|----------------------|----------------|---------------------|
| | mm | in | | Working | Test | Burst | | | |
| CHVRH-100-GG | 100 | 4 | 112 | 4 | 8 | 24 | 190 | 3.80 | 25 |

CHHP

HOT PRODUCTS 966 HOSE



Construction

Inner Materials:

Polyamide films

Reinforcement:

Internal wire of galvanised steel

External wire of galvanised steel

Outer cover:

White Fabric with no identification stripe.

Temperature Range:

-20°C up to +180°C

Reference Specifications:

Conforms to AS2683

Type 2/3; Class B

Pressure Capabilities: Test pressure 2:1; Burst 6:1

Application

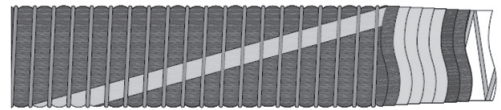
Transfer hoses suitable for the suction and delivery of hydrocarbon products at an elevated temperature such as tar and bitumen.

| Product Code | Nominal ID | | OD mm | Pressure (bar) @ 20° C per AS2117 | | | Bend radius mm | Weight Kg/m | Coil Length m |
|--------------|-------------------|----|----------|--------------------------------------|------|-------|----------------------|----------------|---------------------|
| | mm | in | | Working | Test | Burst | | | |
| CHHP-020-GG | under development | | | | | | | | |
| CHHP-025-GG | 25 | 1 | 37 | 10 | 20 | 60 | 75 | 0.96 | 25 |
| CHHP-032-GG | 32 | 1¼ | 43 | 10 | 20 | 60 | 90 | 1.16 | 25 |
| CHHP-040-GG | 40 | 1½ | 51 | 10 | 20 | 60 | 100 | 1.62 | 25 |
| CHHP-050-GG | 50 | 2 | 65 | 10 | 20 | 60 | 140 | 1.78 | 25 |
| CHHP-065-GG | 63 | 2½ | 76 | 10 | 20 | 60 | 180 | 2.62 | 25 |
| CHHP-080-GG | 76 | 3 | 90 | 10 | 20 | 60 | 210 | 3.39 | 25 |
| CHHP-100-GG | 100 | 4 | 120 | 10 | 20 | 60 | 340 | 4.30 | 25 |

Please Note: Elevated temperatures (above 100°C) reduce the working pressure by 50%

CHAV

AVIATION HOSE 700SG



Construction

Inner Materials:

Polypropylene fabrics and film selected according to chemical resistance and strength

Reinforcement:

Internal wire of stainless steel

External wire of galvanised steel

Outer cover:

Black PVC coated Fabric with green identification stripe

Temperature Range:

-20°C up to +80°C

Reference Specifications:

Complies with the AS2683

Type 1; Grade 1,2,3; Electrical Kind 1

Pressure Capabilities: Test pressure 2:1; Burst 6:1

Application

Transfer hoses suitable for the suction and delivery of aviation fuels.

| Product Code | Nominal ID | | OD mm | Pressure (bar) @ 20° C per AS2683 | | | Bend radius mm | Weight Kg/m | Coil Length m |
|--------------|------------|----|----------|--------------------------------------|------|-------|----------------------|----------------|---------------------|
| | mm | in | | Working | Test | Burst | | | |
| CHAV-040-SG | 40 | 1½ | 51 | 7 | 14 | 42 | 75 | 1.58 | 25 |
| CHAV-050-SG | 50 | 2 | 63 | 7 | 14 | 42 | 90 | 1.71 | 25 |
| CHAV-065-SG | 63 | 2½ | 76 | 7 | 14 | 42 | 100 | 2.64 | 25 |
| CHAV-080-SG | 76 | 3 | 90 | 7 | 14 | 42 | 125 | 3.19 | 25 |
| CHAV-100-SG | 100 | 4 | 114 | 7 | 14 | 42 | 200 | 4.10 | 25 |

CHAV

AVIATION HOSE 700SS



Construction

Inner Materials:

Polypropylene fabrics and film selected according to chemical resistance and strength

Reinforcement:

Internal wire of stainless steel

External wire of stainless steel

Outer cover:

Black PVC coated Fabric with blue identification stripe

Temperature Range:

-20°C up to +80°C

Reference Specifications:

Complies with the AS2683

Type 1; Grade 1,2,3; Electrical Kind 1

Pressure Capabilities: Test pressure 2:1; Burst 6:1

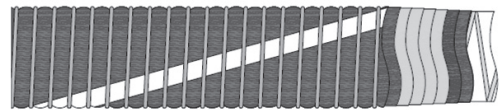
Application

Transfer hoses suitable for the suction and delivery of aviation fuels.

| Product Code | Nominal ID | | OD mm | Pressure (bar) @ 20° C per AS2683 | | | Bend radius mm | Weight Kg/m | Coil Length m |
|--------------|------------|----|----------|--------------------------------------|------|-------|----------------------|----------------|---------------------|
| | mm | in | | Working | Test | Burst | | | |
| CHAV-040-SS | 40 | 1½ | 51 | 7 | 14 | 42 | 75 | 1.61 | 25 |
| CHAV-050-SS | 50 | 2 | 63 | 7 | 14 | 42 | 90 | 1.74 | 25 |
| CHAV-065-SS | 63 | 2½ | 76 | 7 | 14 | 42 | 100 | 2.69 | 25 |
| CHAV-080-SS | 76 | 3 | 90 | 7 | 14 | 42 | 125 | 3.20 | 25 |
| CHAV-100-SS | 100 | 4 | 114 | 7 | 14 | 42 | 200 | 4.15 | 25 |

CHAV

LIGHT WEIGHT AVIATION HOSE 700AG



Construction

Inner Materials:

Polypropylene fabrics and film selected according to chemical resistance and strength

Reinforcement:

Internal wire of aluminium

External wire of galvanised steel

Outer cover:

Black PVC coated Fabric with white identification stripe

Temperature Range:

-20°C up to +80°C

Reference Specifications:

Complies with the AS2683

Type 1; Grade 1,2,3; Electrical Kind 1

Pressure Capabilities: Test pressure 2:1; Burst 6:1

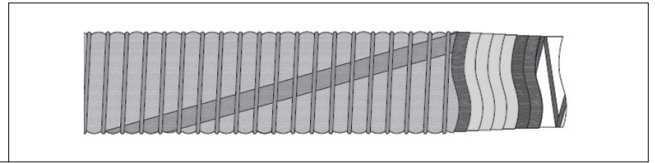
Application

Light weight transfer hoses suitable for the suction and delivery of aviation fuels.

| Product Code | Nominal ID | | OD mm | Pressure (bar) @ 20° C per AS2683 | | | Bend radius mm | Weight Kg/m | Coil Length m |
|--------------|------------|----|----------|--------------------------------------|------|-------|----------------------|----------------|---------------------|
| | mm | in | | Working | Test | Burst | | | |
| CHAV-065-AG | 63 | 2½ | 76 | 4 | 8 | 24 | 90 | 1.94 | 25 |
| CHAV-080-AG | 76 | 3 | 88 | 4 | 8 | 24 | 115 | 2.37 | 25 |
| CHAV-100-AG | 100 | 4 | 112 | 4 | 8 | 24 | 190 | 2.93 | 25 |

CH951

CHEMICAL HOSE



Construction

Inner Materials:

Polypropylene fabrics and film selected according to chemical resistance and strength

Reinforcement:

Internal wire of polypropylene coated steel

External wire of galvanised steel

Outer cover:

Grey PVC coated Fabric with red identification stripe.

Temperature Range:

-20°C up to +80°C

Reference Specifications:

Conforms to AS2117

Type 2/3; Grade 2

Pressure Capabilities: Test pressure 2:1; Burst 4:1

Application

Transfer hoses suitable for the suction and delivery of chemicals like acids, alkalies and solvents, where the outside of the assembly is not in contact with the media.

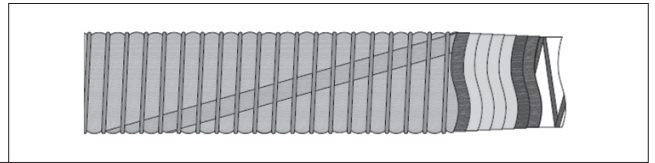
Refer to chemical data for specific applications.

| Product Code | Nominal ID | | OD mm | Pressure (bar) @ 20° C per AS2117 | | | Bend radius mm | Weight Kg/m | Coil Length m |
|--------------|------------|----|----------|--------------------------------------|------|-------|----------------------|----------------|---------------------|
| | mm | in | | Working | Test | Burst | | | |
| CH951-025-PG | 25 | 1 | 37 | 10 | 20 | 40 | 75 | 1.44 | 25 |
| CH951-032-PG | 32 | 1¼ | 43 | 10 | 20 | 40 | 90 | 1.65 | 25 |
| CH951-040-PG | 40 | 1½ | 51 | 10 | 20 | 40 | 100 | 1.89 | 25 |
| CH951-050-PG | 50 | 2 | 65 | 10 | 20 | 40 | 140 | 2.20 | 25 |
| CH951-065-PG | 63 | 2½ | 76 | 10 | 20 | 40 | 180 | 3.28 | 25 |
| CH951-080-PG | 76 | 3 | 90 | 10 | 20 | 40 | 210 | 3.85 | 25 |
| CH951-100-PG | 100 | 4 | 120 | 10 | 20 | 40 | 340 | 5.32 | 25 |

Please Note: This hose is not ideally suited for highly viscous products or where static electricity is a possibility due to the polypropylene coated inner wire.

CH952

CHEMICAL HOSE



Construction

Inner Materials:

Polypropylene fabrics and film selected according to chemical resistance and strength

Reinforcement:

Internal wire of polypropylene coated steel

External wire of stainless steel

Outer cover:

Grey PVC coated Fabric with orange identification stripe.

Temperature Range:

-20°C up to +80°C

Reference Specifications:

Conforms to AS2117

Type 2/3; Grade 2

Pressure Capabilities: Test pressure 2:1; Burst 4:1

Application

Transfer hoses suitable for the suction and delivery of chemicals like acids, alkalies and solvents, even where the outside of the assembly is in contact with the media.

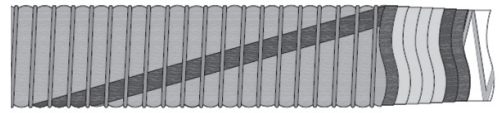
Refer to chemical data for specific applications.

| Product Code | Nominal ID | | OD mm | Pressure (bar) @ 20° C per AS2117 | | | Bend radius mm | Weight Kg/m | Coil Length m |
|--------------|------------|----|----------|--------------------------------------|------|-------|----------------------|----------------|---------------------|
| | mm | in | | Working | Test | Burst | | | |
| CH952-025-PS | 25 | 1 | 37 | 10 | 20 | 40 | 75 | 1.47 | 25 |
| CH952-032-PS | 32 | 1¼ | 43 | 10 | 20 | 40 | 90 | 1.74 | 25 |
| CH952-040-PS | 40 | 1½ | 51 | 10 | 20 | 40 | 100 | 1.87 | 25 |
| CH952-050-PS | 50 | 2 | 65 | 10 | 20 | 40 | 140 | 2.34 | 25 |
| CH952-065-PS | 63 | 2½ | 76 | 10 | 20 | 40 | 180 | 3.38 | 25 |
| CH952-080-PS | 76 | 3 | 90 | 10 | 20 | 40 | 210 | 3.98 | 25 |
| CH952-100-PS | 100 | 4 | 120 | 10 | 20 | 40 | 340 | 4.57 | 25 |

Please Note: This hose is not ideally suited for highly viscous products or where static electricity is a possibility due to the polypropylene coated inner wire.

CH969

CHEMICAL HOSE



Construction

Inner Materials:

Polypropylene fabrics and film selected according to chemical resistance and strength

Reinforcement:

Internal wire of stainless steel

External wire of galvanised steel

Outer cover:

Orange PVC coated Fabric with blue identification stripe.

Temperature Range:

-20°C up to +80°C

Reference Specifications:

Conforms to AS2117

Type 2/3

Pressure Capabilities: Test pressure 2:1; Burst 4:1

Application

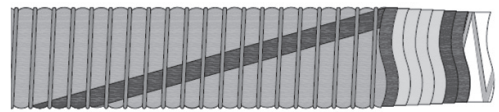
Transfer hoses suitable for the suction and delivery of chemicals like acids, alkalies and solvents, even where the outside of the assembly is in contact with the media.

Refer to chemical data for specific applications.

| Product Code | Nominal ID | | OD mm | Pressure (bar) @ 20° C per AS2117 | | | Bend radius mm | Weight Kg/m | Coil Length m |
|--------------|-------------------|----|----------|--------------------------------------|------|-------|----------------------|----------------|---------------------|
| | mm | in | | Working | Test | Burst | | | |
| CH969-025-SG | 25 | 1 | 37 | 10 | 20 | 40 | 75 | 1.25 | 25 |
| CH969-032-SG | 32 | 1¼ | 43 | 10 | 20 | 40 | 90 | 1.43 | 25 |
| CH969-040-SG | 40 | 1½ | 51 | 10 | 20 | 40 | 100 | 1.78 | 25 |
| CH969-050-SG | 50 | 2 | 65 | 10 | 20 | 40 | 140 | 1.95 | 25 |
| CH969-065-SG | 63 | 2½ | 76 | 10 | 20 | 40 | 180 | 3.02 | 25 |
| CH969-080-SG | 76 | 3 | 90 | 10 | 20 | 40 | 210 | 3.57 | 25 |
| CH969-100-SG | 100 | 4 | 120 | 10 | 20 | 40 | 340 | 5.11 | 25 |
| CH969-150-SG | under development | | | | | | | | |

CH969

CHEMICAL HOSE (ALL STAINLESS)



Construction

Inner Materials:

Polypropylene fabrics and film selected according to chemical resistance and strength

Reinforcement:

Internal wire of stainless steel

External wire of stainless steel

Outer cover:

Orange PVC coated Fabric with blue identification stripe.

Temperature Range:

-20°C up to +80°C

Reference Specifications:

Conforms to AS2117

Type 2/3

Pressure Capabilities: Test pressure 2:1; Burst 4:1

Application

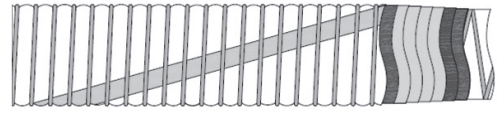
Transfer hoses suitable for the suction and delivery of chemicals like acids, alkalies and solvents, where the outside of the assembly is not in contact with the media.

Refer to chemical data for specific applications.

| Product Code | Nominal ID | | OD mm | Pressure (bar) @ 20° C per AS2117 | | | Bend radius mm | Weight Kg/m | Coil Length m |
|--------------|-------------------|----|----------|--------------------------------------|------|-------|----------------------|----------------|---------------------|
| | mm | in | | Working | Test | Burst | | | |
| CH969-025-SS | 25 | 1 | 37 | 10 | 20 | 40 | 75 | 1.27 | 25 |
| CH969-040-SS | 40 | 1½ | 51 | 10 | 20 | 40 | 100 | 1.81 | 25 |
| CH969-050-SS | 50 | 2 | 65 | 10 | 20 | 40 | 140 | 1.98 | 25 |
| CH969-065-SS | 63 | 2½ | 76 | 10 | 20 | 40 | 180 | 3.05 | 25 |
| CH969-080-SS | 76 | 3 | 90 | 10 | 20 | 40 | 210 | 3.61 | 25 |
| CH969-100-SS | 100 | 4 | 120 | 10 | 20 | 40 | 340 | 4.26 | 25 |
| CH969-150-SS | under development | | | | | | | | |

CH940

CRYOGENICS HOSE



Construction

Inner Materials:

Polyamide films

Reinforcement:

Internal wire of stainless steel

External wire of stainless steel

Outer cover:

White Fabric with green identification stripe.

Temperature Range:

-50°C up to +65°C

Reference Specifications:

Conforms to AS1869

Class E

Pressure Capabilities: Test pressure 2:1; Burst 4:1

Application

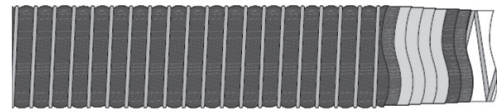
Transfer hoses suitable for the delivery of gases, organic solvents, and alkalies

Refer to chemical data for specific applications.

| Product Code | Nominal ID | | OD mm | Pressure (bar) @ 20° C per AS2117 | | | Bend radius mm | Weight Kg/m | Coil Length m |
|--------------|-------------------|------|----------|--------------------------------------|------|-------|----------------------|----------------|---------------------|
| | mm | in | | Working | Test | Burst | | | |
| CH940-025-SS | 25 | 1 | 39 | 25 | 50 | 100 | 105 | 2.13 | 25 |
| CH940-032-SS | 32 | 1.25 | 45 | 25 | 50 | 100 | 120 | 2.30 | 25 |
| CH940-040-SS | 40 | 1.5 | 53 | 25 | 50 | 100 | 130 | 2.45 | 25 |
| CH940-050-SS | 50 | 2 | 67 | 25 | 50 | 100 | 170 | 2.74 | 25 |
| CH940-065-SS | 63 | 2.5 | 79 | 25 | 50 | 100 | 210 | 3.74 | 25 |
| CH940-080-SS | 76 | 3 | 93 | 25 | 50 | 100 | 240 | 4.35 | 25 |
| CH940-100-SS | 100 | 4 | 123 | 21 | 42 | 84 | 370 | 8.52 | 25 |
| CH940-150-SS | under development | | | | | | | | |

CH970

CHEMICAL MARINE HOSE



Construction

Inner Materials:

Polypropylene fabrics and film selected according to chemical resistance and strength

Reinforcement:

Internal wire of stainless steel

External wire of stainless steel

Outer cover:

Blue PVC coated Fabric with no identification stripe.

Temperature Range:

-20°C up to +80°C

Reference Specifications:

Conforms to AS2117 and IMO BCH Code

Type 2/3; Grade 2; Electrical Kind 1

Pressure Capabilities: Test pressure 2:1; Burst 5:1

Application

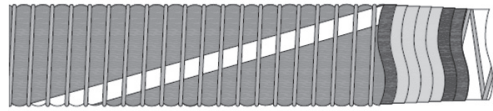
Heavy duty chemical transfer hose for ship to shore and dock side

Refer to chemical data for specific applications.

| Product Code | Nominal ID | | OD mm | Pressure (bar) @ 20° C per AS2117 | | | Bend radius mm | Weight Kg/m | Coil Length m |
|--------------|-------------------|----|----------|--------------------------------------|------|-------|----------------------|----------------|---------------------|
| | mm | in | | Working | Test | Burst | | | |
| CH970-100-SS | 100 | 4 | 125 | 14 | 28 | 70 | 400 | 7.88 | 25 |
| CH970-150-SS | under development | | | | | | | | |

CH971

PTFE CHEMICAL HOSE (ALL STAINLESS)



Construction

Inner Materials:

PTFE, polymeric fabrics and film selected according to chemical resistance and strength

Reinforcement:

Internal wire of stainless steel

External wire of stainless steel

Outer cover:

Red PVC coated Fabric with white identification stripe.

Temperature Range:

-20°C up to +80°C

Reference Specifications:

Conforms to AS2117

Type 2/3

Pressure Capabilities: Test pressure 2:1; Burst 4:1

Application

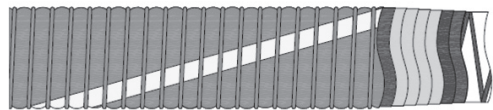
Transfer hoses suitable for the suction and delivery of aggressive chemicals, searching solvents, and high viscosity products such as paint.

Refer to chemical data for specific applications.

| Product Code | Nominal ID | | OD mm | Pressure (bar) @ 20° C per AS2117 | | | Bend radius mm | Weight Kg/m | Coil Length m |
|--------------|-------------------|------|----------|--------------------------------------|------|-------|----------------------|----------------|---------------------|
| | mm | in | | Working | Test | Burst | | | |
| CH971-025-SS | 25 | 1 | 39 | 14 | 28 | 56 | 105 | 1.60 | 25 |
| CH971-032-SS | 32 | 1.25 | 45 | 14 | 28 | 56 | 120 | 1.82 | 25 |
| CH971-040-SS | 40 | 1.5 | 53 | 14 | 28 | 56 | 130 | 2.07 | 25 |
| CH971-050-SS | 50 | 2 | 67 | 14 | 28 | 56 | 170 | 2.40 | 25 |
| CH971-065-SS | 63 | 2.5 | 79 | 14 | 28 | 56 | 210 | 3.54 | 25 |
| CH971-080-SS | 76 | 3 | 93 | 14 | 28 | 56 | 240 | 4.14 | 25 |
| CH971-100-SS | 100 | 4 | 123 | 14 | 28 | 56 | 370 | 4.55 | 25 |
| CH971-150-SS | under development | | | | | | | | |

CH998

PTFE CHEMICAL HOSE



Construction

Inner Materials:

PTFE, polymeric fabrics and film selected according to chemical resistance and strength

Reinforcement:

Internal wire of polypropylene coated steel

External wire of stainless steel

Outer cover:

Red PVC coated Fabric with yellow identification stripe.

Temperature Range:

-20°C up to +80°C

Reference Specifications:

Conforms to AS2117

Type 2/3

Pressure Capabilities: Test pressure 2:1; Burst 4:1

Application

Transfer hoses suitable for the suction and delivery of aggressive chemicals, searching solvents, and high viscosity products such as paint.

Refer to chemical data for specific applications.

| Product Code | Nominal ID | | OD mm | Pressure (bar) @ 20° C per AS2117 | | | Bend radius mm | Weight Kg/m | Coil Length m |
|--------------|------------|------|----------|--------------------------------------|------|-------|----------------------|----------------|---------------------|
| | mm | in | | Working | Test | Burst | | | |
| CH998-025-PS | 25 | 1 | 37 | 10 | 20 | 40 | 75 | 1.62 | 25 |
| CH998-032-PS | 32 | 1.25 | 43 | 10 | 20 | 40 | 90 | 1.87 | 25 |
| CH998-040-PS | 40 | 1.5 | 51 | 10 | 20 | 40 | 100 | 2.10 | 25 |
| CH998-050-PS | 50 | 2 | 65 | 10 | 20 | 40 | 140 | 2.48 | 25 |
| CH998-065-PS | 63 | 2.5 | 76 | 10 | 20 | 40 | 180 | 3.52 | 25 |
| CH998-080-PS | 76 | 3 | 90 | 10 | 20 | 40 | 210 | 4.17 | 25 |
| CH998-100-PS | 100 | 4 | 120 | 10 | 20 | 40 | 340 | 4.81 | 25 |

Please Note: This hose is not ideally suited for applications where static electricity is a possibility due to the polypropylene coated inner wire.

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