



This page is part of a complete catalogue containing technical and safety data.
All data must be reviewed when selecting a product.
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Rev. 1



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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.


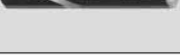
DO NOT USE AS A STRENGTH MEMBER for pulling or lifting equipment. Use support cables for vertical installations.

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













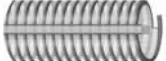



Use only Pirtek HOSE AND FITTINGS COMBINATIONS as designated in their current assembly guidelines.

Use only Pirtek PROCEDURES and ASSEMBLY EQUIPMENT as published and maintained in their M.A.P.S. documentation.

Overview of Industrial Hoses - Alphanumeric Index Page 67

Page	Group	Product Code	Construction	Normal Usage	Features & Benefits
7 - 8	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.
9		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.
10		IRSA 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		IRPAW Premium Air Water		Safety yellow softwall air compressor hose for medium to heavy duty applications.	SBR tube / EPDM cover. Oil mist resistant. Yellow on blue spiral stripe. 20 bar WP.
12		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.
13		IRWD Water Delivery Space		Softwall lightweight black hose for industrial and waste waters.	Lightweight and weather resistant. Black text on a green spiral stripe. 5 bar WP.
14		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.
15		IRWSD Water Suction & Delivery		Hardwall hose for suction or delivery of water and non-corrosive fluids.	Weather resistant black cover and helix wire support. Grey text on green spiral. 10 bar WP.
16		WASHDOWN & STEAM	IRWDR/W Washdown Red / White		Softwall hot water discharge for washdown in dairies, food processing.
18	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.
19	OIL / CHEMICAL	IROFSD Oil / Fuel Suction & Delivery		Lightweight hardwall suction and delivery hose for fuels and oils with an aromatic content to 30%.	Unsuitable for phosphate esters. Abrasion and weather resistant black cover with yellow spiral.
20		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.
21		IRFC Pirtekflex		Flexible grey hardwall hose for a wide range of petroleum and chemical products	Very tight bend radius and white smooth XLPE core for maximum versatility. 60 m max length.
22		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.
23	FOOD & BEVERAGE	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.
24		IRPF Premium Food		Red hardwall hose for suction and delivery of wine and alcohols at 96°C. Odourless and taste free.	Particularly suited to use in breweries and distilleries.
25		IRLF Liquid Food		Light weight suction hose for milk and liquid foods, particularly on tank trucks.	Good flexibility and ease of handling. Blue hose with white spiral stripe.

Overview of Industrial Hoses - Alphanumeric Index Page 67

Page	Group	Product Code	Construction	Normal Usage	Features & Benefits
26	MATERIALS HANDLING	IRHAB Hot Air Blower		Transfer of dry bulk materials using hot compressed air to tankers	Blue hardwall hose with red stripe. FDA approved tube.
27		IRDM Dry Materials		Black softwall hose for delivery of dry abrasive materials.	Synthetic rubber inner and outer. Abrasion and weather resistant. Yellow spiral stripe.
28		IRC Concrete		Softwall hose for spraying of plaster, grout, gypsum and concrete.	Anti-static tube. Black with yellow spiral stripe.
29		IRCS Concrete Steel 80		Steel cord hose for placement of concrete.	Specially formulated tube to withstand abrasion from aggregate. Black with yellow spiral stripe.
30		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.
31	AUTO	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.
32	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.
33		ELASTOMERS & Fibres	IMPORTANT INFORMATION	General properties of the elastomers and fibres used in Pirtek industrial rubber hoses	
35	SPECIAL	CT Range Stainless St. Hose Heat Sleeves		Grade 316L corrugated stainless steel core with Grade 304 stainless steel reinforcing braid/s as needed.	Manufactured assemblies to ISO 10380 using end fittings to ISO 10806.
46	TEFLON	STH Teflon Hose		Medium pressure steam laundry equipment, plastic moulding and air compressor discharge.	Teflon liner / SS braid allow high temperature and chemical capability.
49	PVC PRESSURE	IPAF Pirtek-Flex Air		General purpose blue air hose with cold weather formulation to maintain flexibility in cold conditions.	Oil mist resistance. Meets and exceeds AS2554 Class B
50		IPCF Pirtek-Flex Clear		Transparent PVC hose with red and blue trace for use with air, water, food and petroleum transfer.	Meets AS2070.
51		IPML Layflat		Red layflat hose for the discharge of water or other liquid: eg irrigation systems, liquid fertiliser, dewatering.	Smooth low friction tube with good liner adhesion and highly abrasion resistant red cover.
52	PVC SUCTION	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.
53		IPHB Helix-Blue		Heavy duty PVC suction and delivery hose for diesel and mineral oils, light chemicals etc.	Super elastic formulation. Long service life in hydrocarbon and general service.
54		IPHG Helix-Grey		A durable form of PVC suction hose suited to the rigours of quarries, construction, mining, and agriculture.	UV stabilised but not suited to prolonged exposure to harsh sunlight of tropical conditions.
56 - 65	CODE HOSE	COMPOSITE HOSE Code 1000 etc		Conveyance of hazardous materials such as fuel and oil, chemicals, aviation products, bitumen etc.	Specific features such as electrical conductivity dependent on application.



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Fast Find Table

Product Code & Hose Type		Working Pressure (bar)																		Temp. °C	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	20.5	20.5	20.5	20.5	20.5	20.5	20.5	13.8	13.8			13.8								-20°/+100°	7		
IRBF	Blue-Flex				20.5		20.5	20.5														-20°/+100°	8	
MPH	Multipurpose	35	35	35	35	35	35	35														-40°/+100°	9	
IRSA	Steel Air				45		45	45	45	45			45	35	35		35					-30°/+70°	10	
IRPAW	Premium Air Water				20		20	20	20	20			20	20	20		20					-30°/+70°	11	
IRAW	Air / Water				10		10	10	10	10			10	10	10	10	10					-35°/+70°	12	
IRWD	Water Delivery																				5 bar from 4" to 12"	-25°/+70°	13	
IRFAW	FRAS Air / Water				20		20	20	20	20			20	20	20		20					-15°/+70°	14	
IRWSD	Water Suction							10	10	10			10	10	10	10	10		10			-30°/+70°	15	
IRWDR/W	Washdown Red / White				10		10	10														-40°/+80°	16	
IRSS	Steel Steam 270				18		18	18	18	18												-40°/+210°	18	
IROFSD	Oil Fuel Suction						10	10	10	10	10	10		10	10	10		10				-20°/+70°	19	
IRCOSD	Corrugated Oil Suction						5				5											-30°/+120°	20	
IRFC	Pirtekflex Chemical									10												-25°/+70°	21	
IRPC	Premium Chemical						10	10	10	10			10	10	10		10					-20°/+100°	22	
IRBD	Beverage Delivery						10	10	10	10			10	10	10		10					-35°/+70°	23	
IRPF	Premium Food						10	10	10	10	10		10	10	10		10					-40°/+120°	24	
IRLF	Liquid Food							6	6	6			6	6	6							-25°/+80°	25	
IRHAB	Hot Air Blower														10		10					-40°/+180°	26	
IRDMM	Dry Materials														6	6	6	6				-40°/+70°	27	
IRC	Concrete						40	40	40	40			40	40	40	40	40					-40°/+70°	28	
IRCS	Concrete Steel 80												80	80	80	80	80	80	80			-40°/+70°	29	
IRSB	Sand Blast								10													-40°/+70°	30	
IRR	Radiator Hose																				Sizes from 19 mm to 102 mm with 3 bar WP	-40°/+100°	31	
IRME	Marine Exhaust																					Sizes from 25 mm to 305 mm with 1.6 bar WP	-30°/+100°	32
METALLIC	Stainless Steel																					Sizes from 1/4" to 8" with WP dependent on braid configuration	37+	
STH	Teflon																					Sizes from 1/8" to 1.1/8"	-55°/+240°	46
IPAF	Pirtek-Flex Air	16	16	16	16		16															-15°/+60°	49	
IPCF	Pirtek-Flex Clear	25	25	23	23	21	21	21	20	16			10									-5°/+60°	50	
IPML	Layflat									8.27			8.27	8.27	8.27		7.58		3.8			-25°/+60°	51	
IPSF	Pirtek-Flex Spring				15	11	10	8	7	6			4	3	3							-15°/+65°	52	
IPHB	Helix-Blue							6.75	5.5	5.5			5	4.5	4.25		3.25					-25°/+60°	53	
IPHG	Helix-Grey									7.9			7.2	6.5	5.8		4.4					-20°/+60°	54	
IS901	H. Duty Petrol Master							14	14	14			12	10	10		10		10			-20°/+80°	57	
IS1000	Std. Petrol Master							7	7	7			6	5	5		4		4			-20°/+80°	58	
IS1003	Lightwt. Petrol Master												6	5	5		4					-20°/+80°	59	
ISAVION	Aviation Refuel. Hose												6		5		4					-20°/+80°	60	
ISVAP	Vapour Recovery Hose																4					-20°/+80°	61	
IS951	Standard Chemiflow							14	14	14			12	10	10		10					-20°/+100°	62	
IS952	Chemiflow SSW							14	14	14			12	10	10		10					-20°/+100°	63	
IS969	Chemiflow CS							14	14	14			12	10	10		10		10			-20°/+100°	64	
ISCHEMSS	Chemiflow ASS							14		14			12	10	10		10					-20°/+100°	65	



IRRF RED-FLEX



Construction

Inner Tube:

Oil resistant synthetic rubber

Reinforcement:

High strength polyester yarn

Cover:

Red ozone and weather resistant cover. Resists ultra violet, mineral oils and grease with Grade "A" nitrile rubber

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%.

Temperature Range:

-20°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

Conductivity:

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

Hose Tails:

Pirtek 'P' Series all sizes
Pirtek 'T' Series option on 6, 8, 10, 13 and 25 mm sizes

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

PIRTEK RED-FLEX MULTI-PURPOSE NON CONDUCTIVE RMA CLASS A OIL RESISTANT TUBE AND COVER IRRF-19 19 mm 300 PSI (20.5 BAR)

Product Code	Nominal ID		OD mm	Pressure bar		Min bend radius mm	Weight Kg/m
	mm	in		working	min burst		
IRRF-06	6.0	1/4	13.0	20.5	61.5	72	0.17
IRRF-08	8.0	5/16	15.0	20.5	61.5	96	0.20
IRRF-10	10.0	3/8	17.0	20.5	61.5	120	0.24
IRRF-13	13.0	1/2	20.0	20.5	61.5	156	0.29
IRRF-16	16.0	5/8	26.0	20.5	61.5	192	0.53
IRRF-19	19.0	3/4	30.0	20.5	61.5	228	0.68
IRRF-25	25.4	1	36.0	20.5	61.5	300	0.85
IRRF-32	32.0	1.1/4	44.0	13.8	41.4	384	1.15
IRRF-38	38.0	1.1/2	53.0	13.8	41.4	456	1.72
IRRF-50	50.0	2	66.0	13.8	41.4	600	2.34

IRBF

BLUE-FLEX



Construction

Inner Tube:

Oil resistant synthetic rubber

Reinforcement:

High strength polyester yarn

Cover:

Blue ozone and weather resistant cover. Resists ultra violet, mineral oils and grease with Grade "A" nitrile rubber

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

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%.

Temperature Range:

-20°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

Conductivity:

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

Hose Tails:

Pirtek 'P' Series all sizes

Pirtek 'T' Series option on 6, 8, 10, 13 and 25 mm sizes

PIRTEK BLUE-FLEX MULTI-PURPOSE NON CONDUCTIVE RMA CLASS A OIL RESISTANT TUBE AND COVER IRBF-19 19 mm 300 PSI (20.5 BAR)

Product Code	Nominal ID		OD mm	Pressure bar		Min bend radius mm	Weight Kg/m
	mm	in		working	min burst		
IRBF-13	13.0	1/2	20.0	20.5	61.5	156	0.29
IRBF-19	19.0	3/4	30.0	20.5	61.5	228	0.68
IRBF-25	25.4	1	36.0	20.5	61.5	300	0.85

MPH

MULTIPURPOSE HOSE



Construction

Inner Tube:

Seamless synthetic rubber, oil resistant

Reinforcement:

Two or four spirals of textile fibre

Cover:

Black synthetic 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:

-40°C up to +100°C fluid
-40°C up to 70°C external ambient

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
Pirtek 'T' Series option on 3/8, 1/2, 5/8 sizes

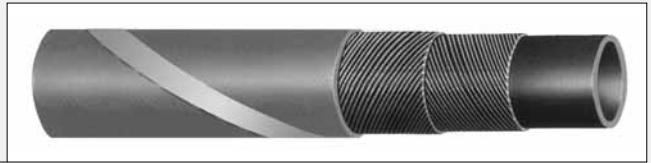
Lay line example: Green text on black background. Note comment above

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

IRSA

STEEL AIR



Construction

Inner Tube:

Black smooth SBR rubber compound

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

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

† Limited stock available

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

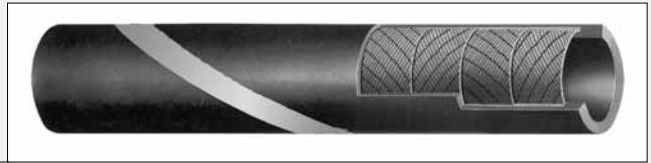
PIRTEK PREMIUM AIR / WATER IRPAW 20 BAR (300 psi) WORK.PRESS.

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	54	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

† Limited stock available

IRAW

AIR / WATER



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

† 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: Black text on green background. Note comment above

PIRTEK WATER DELIVERY IRWD 10 bar (150 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

† Limited stock available

IRFAW

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

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 AS2660-91B, incorporating AS1180.13A and AS1180.10B

Hose Tails:

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

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		Reinforcement	OD mm	Pressure bar		Weight Kg/m
	mm	in			working	min burst	
IRFAW-013	13	1/2	2 spiral plies	23	20	80	0.36
IRFAW-019	19	3/4	2 spiral plies	29	20	80	0.47
IRFAW-025	25	1	2 spiral plies	37	20	80	0.70
IRFAW-032	32	1.1/4	2 spiral plies	46	20	80	1.02
IRFAW-038	38	1.1/2	2 spiral plies	52.5	20	80	1.21
IRFAW-051	51	2	2 spiral plies	66	20	80	1.60
IRFAW-063	63.5	2.1/2	4 spiral plies	81	20	80	2.27
IRFAW-076	76	3	4 spiral plies	93	20	80	2.53
IRFAW-102	102	4	4 spiral plies	120	20	70	3.60

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

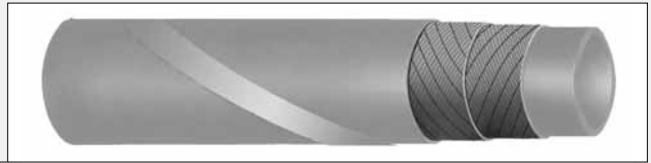
Lay line example: Grey text on green background. Note comment above

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

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

IRWDR/W

WASHDOWN RED / WHITE



Construction

Inner Tube:

White smooth SBR rubber compound

Reinforcement:

High strength synthetic cord

Cover:

White or red, smooth (wrapped finish), EPDM rubber compound. 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 +80°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.

Code	Nominal ID		OD mm	Cover	Pressure bar		Weight Kg/m
	mm	in			working	min burst	
IRWDW-13	13	1/2	25.5	White	10	30	0.48
IRWDR-13	13	1/2	25.5	Red	10	30	0.48
IRWDW-19	19	3/4	30.5	White	10	30	0.57
IRWDR-19	19	3/4	31	Red	10	30	0.61
IRWDW-25	25	1	34	White	10	30	0.54
IRWDR-25	25	1	34	Red	10	30	0.54

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.

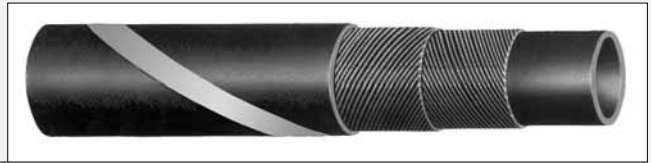
SAFETY

- 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
- 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



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

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

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: Embossed text on red cover. 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

IROFSD

OIL / FUEL SUCTION & DELIVERY



Construction

Inner Tube:

Black smooth NBR compound

Reinforcement:

High strength synthetic cord plus embedded steel helix 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 +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, Kamloks

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	205	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	290	2.79
IROFSD-076	76	3	89	10	30	0.9	360	2.94
IROFSD-102	102	4	118	10	30	0.9	515	4.94

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



Construction

Inner Tube:

White, smooth, cross linked polyethylene (PE Flex)

Reinforcement:

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

Cover:

Grey, smooth (wrapped finish) synthetic rubber compound resistant to weathering and ozone

Applications

Flexible hardwall hose with tight bending radius designed to handle a wide range of chemical and petroleum products including oil. Maximum length 60 metres

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:

Industrial fittings
Kamloks
Stainless steel bands and clamps

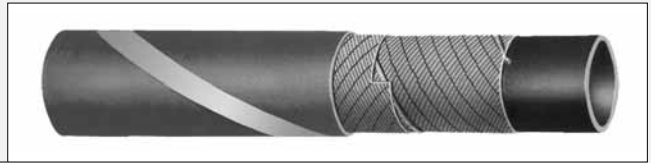
Lay line example: Blue text on white Mylar background. Note comment above

PIRTEK PIRTEKFLEX - CHEMICAL IRFC 10 BAR (150 PSI) WORK. PRESS.

Product Code	Nominal ID		OD mm	Pressure bar			Min bend radius mm	Weight Kg/m
	mm	in		working	min burst	vacuum		
IRFC-032060	32	1.1/4	43.5	10	40	0.9	130	1.09

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

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

Light weight hardwall suction and 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
Steam sterilisation up to 130°C for a few minutes

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 Tails:

Industrial food grade fittings
Stainless steel bands and clamps

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

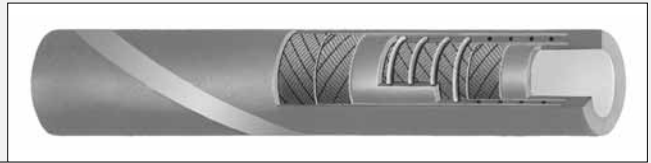
PIRTEK BEVERAGE IRBD 10 BAR (150 psi) WORK. PRESS.

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

IRPF

PREMIUM FOOD



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 alcohols at 96°C. 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 with steam and detergents, HNO₃ up to 3%, NaOH up to 15% for a few minutes

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

† Limited stock available

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. 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

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

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

Tube meets FDA requirements

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	Pressure bar			Bend Radius	Weight
	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

† Limited stock available

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:

This hose 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

IRC CONCRETE



Construction

Inner Tube:

Black, antistatic smooth SBR/NR abrasion resistant rubber compound

Reinforcement:

High strength synthetic cords

Cover:

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

Applications

Softwall hose for spraying of plaster, grout, gypsum and concrete

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:

Loss of tube rubber compound in accordance with DIN 53516 amounts to $70 \pm 5 \text{ mm}^3$

Hose Tails:

Supplied with swaged-on Victaulic 'full-flow' hardened couplings

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

PIRTEK CONCRETE IRC 40 BAR (600 psi) WORK. PRESS.

Product Code	Nominal ID		OD mm	Pressure bar		Weight Kg/m
	mm	in		working	min burst	
IRC-019 †	19	3/4	31	40	120	0.48
IRC-025 †	25	1	37	40	120	0.59
IRC-032 †	32	1.1/4	44	40	120	0.77
IRC-038 †	38	1.1/2	54	40	120	1.20
IRC-051	51	2	68	40	120	1.70
IRC-065 †	65	2.1/2	85	40	120	2.44
IRC-076	76	3	98	40	120	2.97
IRC-090	90	3.1/2	120	40	120	4.95
IRC-102	102	4	128	40	120	5.08

† Limited stock available

IRCS CONCRETE STEEL 80



Construction

Inner Tube:

Black, smooth NR/SBR rubber compound formulated to withstand abrasive concrete

Reinforcement:

Plies of steel wire cord

Cover:

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

Applications

Steel cord hose used to place concrete at its casting location. Used as the delivery hose from concrete pumps. The hose is sufficiently strong to withstand the suction produced as part of the cleaning process

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:

Loss of tube rubber compound in accordance with DIN 53516 amounts to 50 ± 5 mm³

Hose Tails:

Supplied with swaged-on Victaulic 'full flow' hardened couplings

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

PIRTEK CONCRETE STEEL 80 IRCS 80 BAR (1200 psi) WORK. PRESS.

Product Code	Nominal ID	Nominal ID	OD	Pressure bar	Pressure bar	Pressure bar	Min Bend Radius	Weight
	mm	in		working	min burst	vacuum		
IRCS-051	51	2	75	80	200	0.8	380	3.92
IRCS-065 †	65	2.1/2	89	80	200	0.8	390	4.78
IRCS-076	76	3	104	80	200	0.8	400	6.12
IRCS-085	85	3.11/32	114	80	200	0.8	500	7.06
IRCS-100	100	4	126	80	200	0.8	550	7.42
IRCS-125	125	5	153	80	200	0.8	700	9.54
IRCS-152 †	152	6	186	80	175	0.8	800	14.98

† 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 10 BAR (600 psi) WORK. PRESS.

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

IRR RADIATOR



Construction

Inner Tube:

Black smooth heat resistant synthetic 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



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Rev. 1

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
hycalor [®]	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		regenerated 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 [®]		polyaramidic 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



Impressive Convoluted photo



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Rev. 1

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:

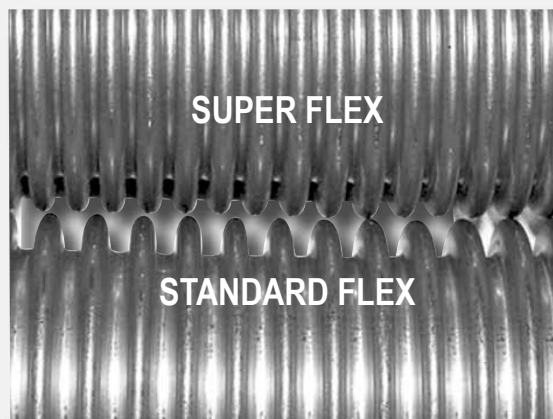
- ISO 10380 Corrugated metal hoses and hose assemblies
- ISO 10806 Fittings for corrugated metal hoses

End Fittings:

- A full range available in mild steel, stainless steel, brass and copper. See page I 038

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	29	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	170	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 036 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								
1/4	6	Unbraided		22	33	-	22	88
		Single Braid		180	270	720	22	88
		Double Braid		288	432	1152	22	88
5/16	8	Unbraided		18	27	-	22	88
		Single Braid		154	230	616	22	88
		Double Braid		246	369	984	22	88
3/8	10	Unbraided		17	25	-	35	130
		Single Braid		105	157	420	35	130
		Double Braid		168	252	672	35	130
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 036 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

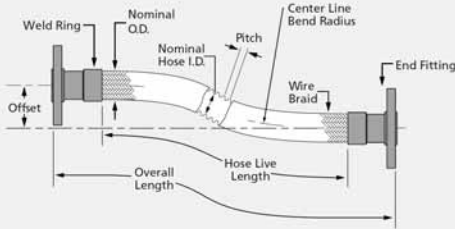
Reduce a further 25% for 45° bends, 50% for 90° bends

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

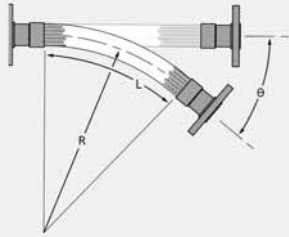
Pressure Drop

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



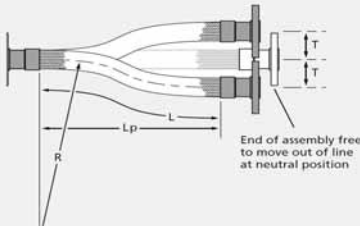
Each assembly must be sized to suit the proposed location and expected movement. Use the appropriate formula below to calculate the live length required, and add the length of fittings to derive the overall length of assembly.



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
- $\theta =$ Angular deflection ($^{\circ}$)
- S = Nominal Hose OD (mm)

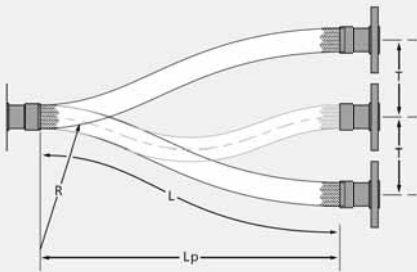


Offset Motion with one end free to move 'out of line' at the neutral position

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

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

- L = live length (mm)
- L_p = horizontal component of L
- R = Minimum dynamic bend radius
- T = Travel from neutral (mm)
- (T never to exceed 25% of Dynamic Bend Radius)

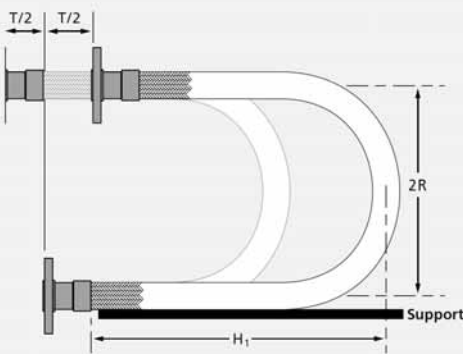


Offset Motion again but with the moving end constrained to move in line at all points

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

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

- L = live length (mm)
- L_p = horizontal component of L
- R = Minimum dynamic bend radius
- T = Travel from neutral (mm)
- (T never to exceed 25% of Dynamic Bend Radius)

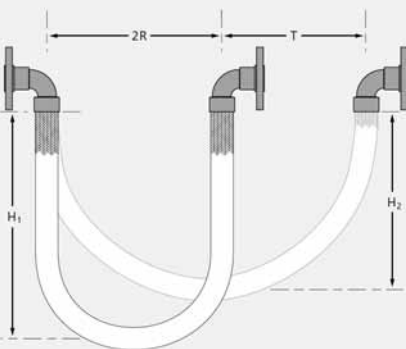
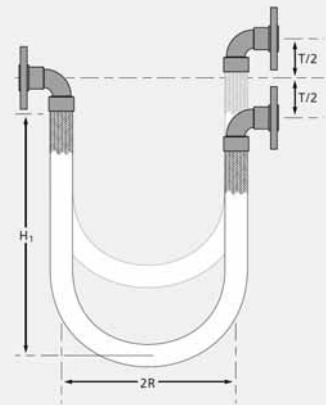


Travelling Loops of constant radius as seen at left and right are used where simple deflection of the hose cannot accommodate the movement involved

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

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

- L and R as previous
- T = Total travel (mm)
- H = Hang Length of the Loop (mm)



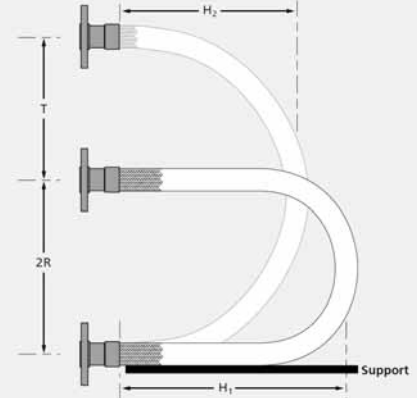
Travelling Loops of changing radius as seen at left and right are used where simple deflection of the hose cannot accommodate the movement involved. It is a more compact arrangement than a constant radius loop, but allows less movement

$$L = 4R + 1.57T$$

$$H_1 = 1.43 R + 0.79T$$

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

- 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 037 and I 038 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.

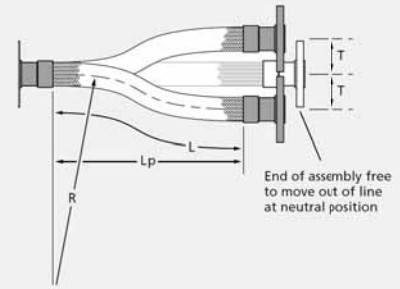
The maximum allowable offset will be 25% of 300 mm, or 75mm

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

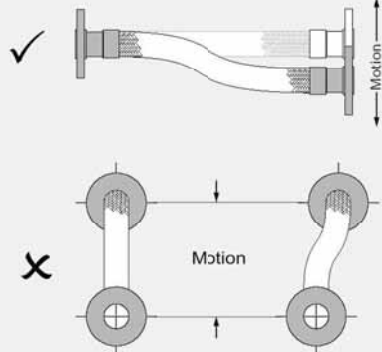
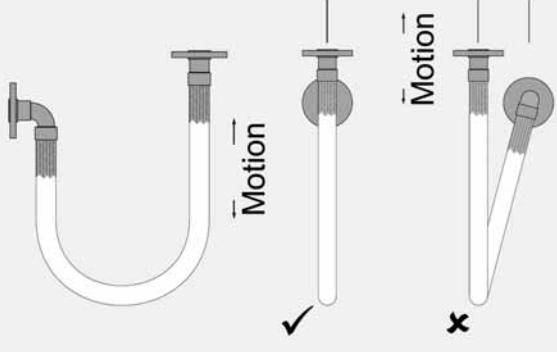
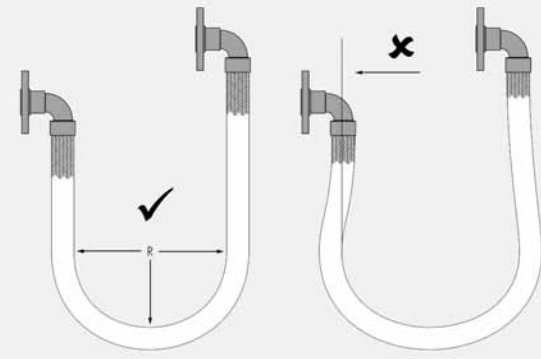
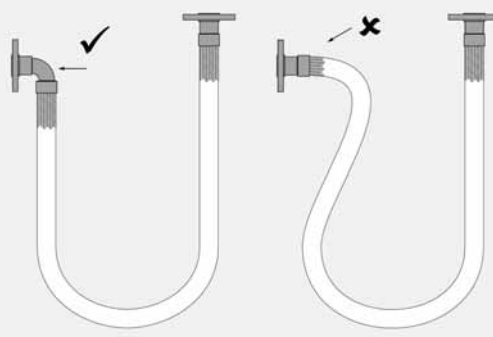
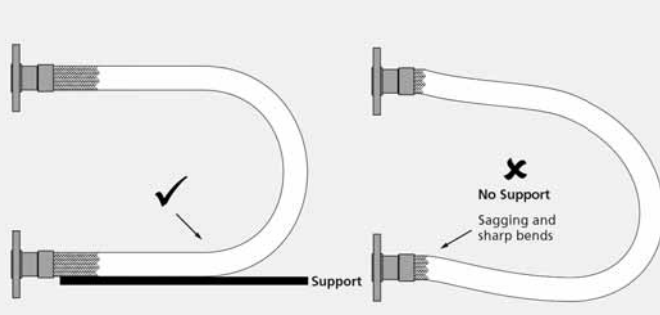
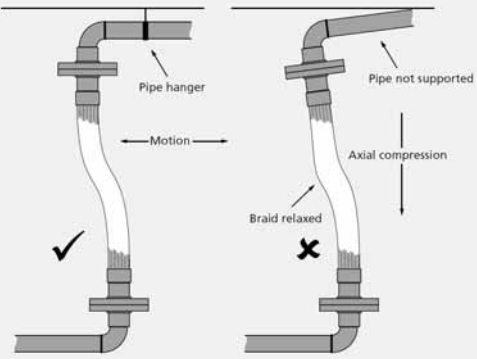
Use an offset figure of 5 mm in conjunction with the bend radius of the selected hose if you need only to cater for normal industrial vibration

Bend Radius	Offset T (mm)														
	5	10	15	20	25	38	50	65	80	100	125	150	200	250	300
mm															
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

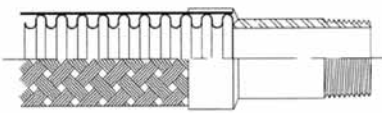
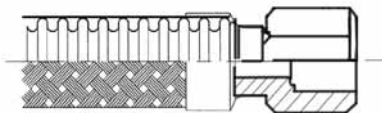
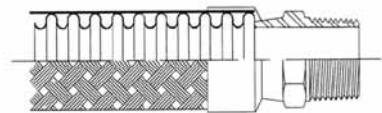
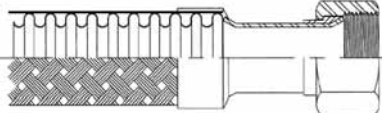
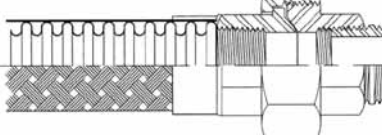
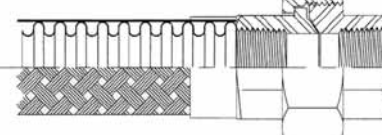
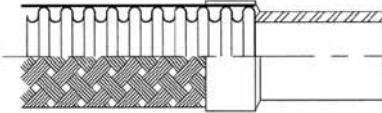
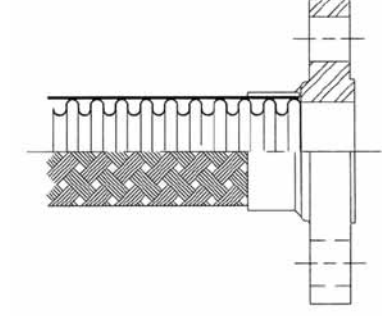
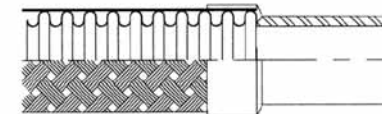
IMPORTANT INSTALLATION GUIDELINES FOR METALLIC HOSES

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:

 <p>Hose flexing must occur in one plane only</p>	 <p>Avoid out of plane flexing</p>
 <p>Avoid over-bending</p>	 <p>Avoid sharp bends</p>
 <p>Provide support</p>	 <p>Do not extend / compress axially</p>
<p>DO</p> <ul style="list-style-type: none"> • 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. 	<p>DO NOT</p> <ul style="list-style-type: none"> • 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

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

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

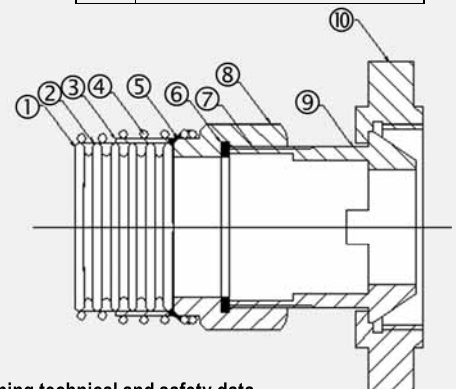
Bottom Loading Hoses

For road tanker service

Bitumen Hoses (illustrated at right)

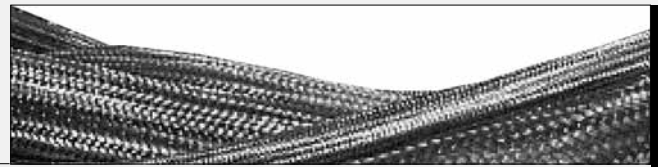
An economical solution using reusable AS2475 end fittings and lightweight design for superlative handling characteristics

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

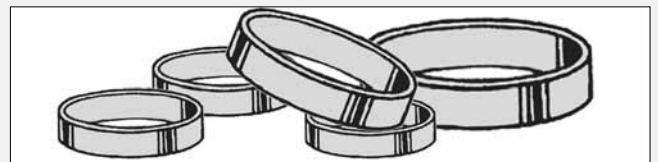
Attachment:

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

CTxWRNG

304 STAINLESS STEEL CRIMP RING



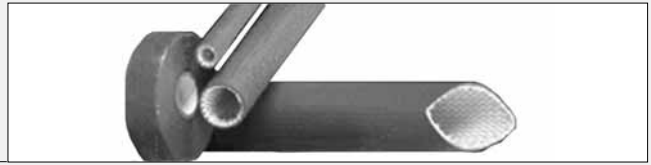
Product Code	ID	Width	Normal Application
	mm		
CTSWRNG-006	11.0	20	Single layer of stainless steel braid
CTSWRNG-008	14.4	20	
CTSWRNG-010	17.8	20	
CTSWRNG-012	21.7	20	
CTSWRNG-016	25.0	20	
CTSWRNG-020	30.0	25	
CTSWRNG-025	37.8	25	
CTSWRNG-032	44.2	30	
CTSWRNG-040	54.7	30	
CTSWRNG-050	68.0	35	
CTSWRNG-065	86.7	35	
CTSWRNG-080	99.0	40	
CTSWRNG-100	121.0	50	

Product Code	ID	Width	Normal Application
	mm		
CTDWRNG-006	14.4	20	Double layer of stainless steel braid
CTDWRNG-008	15.5	20	
CTDWRNG-010	19.0	20	
CTDWRNG-012	22.9	20	
CTDWRNG-016	26.2	20	
CTDWRNG-020	30.4	25	
CTDWRNG-025	39.8	25	
CTDWRNG-032	46.6	30	
CTDWRNG-040	57.2	30	
CTDWRNG-050	70.0	35	
CTDWRNG-065	88.0	35	
CTDWRNG-080	101.2	40	
CTDWRNG-100	123.0	50	

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

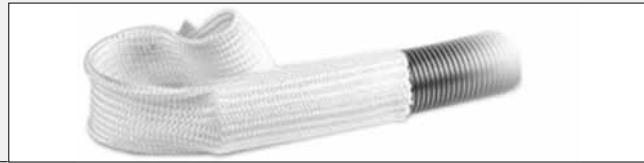
Aerospace braided silco sleeve allows qualified hose assemblies to pass AS1055D testing under stated flow and pressure conditions.

Attachment & Sealing:

Silco Tape in either 25 mm or 38 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

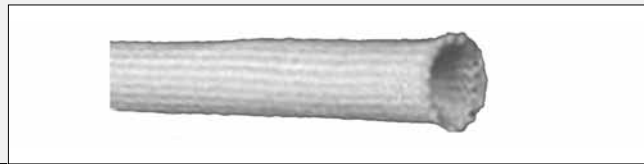
Commonly used in conjunction with braided stainless steel sleeve when combating high temperatures in abrasive environments

Reference Specifications

Attachment:

Stainless steel crimp rings. See page E 043

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.

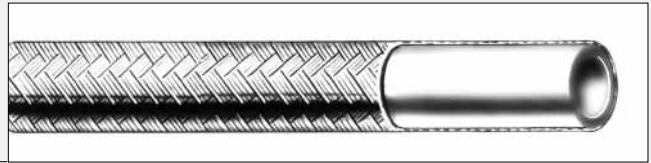
Attachment:

Stainless steel crimp rings. See page E 043

Product Codes		DN Dash Size	Nominal ID	Box Size
Silica Sleeve	Fibreglass Sleeve		mm	m
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

STH

PTFE (TEFLON) hose

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

Extruded seamless Teflon

Reinforcement:

AISI 304 stainless steel single wire braid

Cover:

The reinforcement braid serves as the outer cover

Lay line example: No layline

Applications

Medium pressure and laundry equipment, plastic moulding presses, steam and compressor discharge

Temperature Range:

-55°C up to +240°C (see graph below)

Features:

A graphite impregnated (black) Teflon liner is available to special order for applications requiring a core tube capable of safely conducting static electricity. Consult Pirtek for details

Reference Specifications

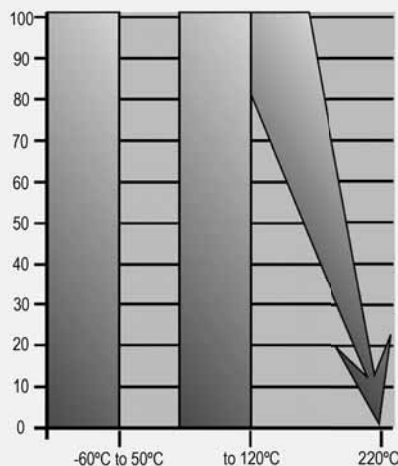
SAE 100 R14

Limitations:

Not recommended for steam / cold water recycling

Product Code	SAE Dash Size	Nominal ID		OD mm	Thickness mm	Pressure bar		Min bend radius mm
		mm	in			working	min burst	
STH-02	3	3.4	1/8	6.1	0.76	103	827	38
STH-03	4	4.9	3/16	7.8	0.76	103	689	51
STH-04	5	6.4	1/4	9.2	0.76	103	621	76
STH-05	6	8.0	5/16	11.0	0.76	103	552	102
STH-06	7	9.5	3/8	12.7	0.76	103	483	127
STH-07 †	8	10.5	7/16	13.6	0.76	69	414	133
STH-08	10	12.8	1/2	16.1	0.76	55	414	165
STH-10	12	15.9	5/8	19.4	0.76	55	345	197
STH-12	14	19.0	3/4	22.2	0.89	55	276	229
STH-14 †	16	22.2	7/8	25.8	0.89	55	241	229
STH-16	18	25.4	1	28.8	0.89	55	241	305
STH-18 †	20	28.6	1.1/8	32.7	1.14	41	172	406

† Limited stock available

**Above 120°C****Pressure:** Reduce working pressure by 1% per additional ° C.**Vacuum:** Reduce vacuum rating by 1.5% per additional ° C.**Note:** The minimum bend radius quoted is for a static bend at ambient temperature. Dynamic bending, especially at elevated temperatures, will increase the minimum bend radius accordingly. Consult Pirtek for specific applications

Divider front



This page is part of a complete catalogue containing technical and safety data.
All data must be reviewed when selecting a product.
Pirtek reserve the right to change technical specifications without notice.

Rev. 1

Divider back

IPAF

PIRTEK-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

Meets and exceeds AS2554 Class B

Limitations:

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

Hose Tails:

Quick connect air fittings
Industrial brass fittings

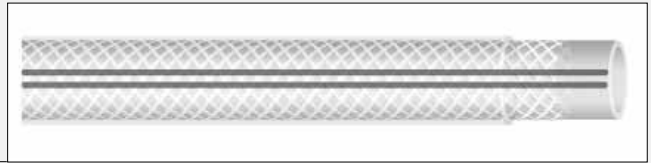
Lay line example: Black text on blue background. Note comment above

PIRTEK -FLEX AIR IPAF-008 16 bar (230 psi) W.P. MEETS AS/NZS 2554 CLASS B

Product Code	Nominal ID		OD mm	Pressure bar		Weight Kg/m
	mm	in		working	min burst	
IPAF-006	6.5	1/4	13.0	16	100	0.11
IPAF-008	8.0	5/16	15.0	16	100	0.15
IPAF-010	9.5	3/8	16.5	16	100	0.17
IPAF-010ASS	9.5	3/8	16.5	16	100	0.17
IPAF-013	13.0	1/2	21.5	16	100	0.25
IPAF-019	19.0	3/4	27.5	16	100	0.45

IPCF

PIRTEK-FLEX CLEAR



Construction

Inner Tube:

Transparent food grade PVC

Reinforcement:

High strength synthetic cord

Cover:

Transparent PVC with red and blue 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 blue and red trace lines. Note comment above

PIRTEK CLASS CLEAR-FLEX IPCF-08 25 BAR (355psi) 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	9.5	25	100	0.05
IPCF-008	8.0	5/16	12.0	25	100	0.07
IPCF-010	10.0	3/8	14.5	23	92	0.10
IPCF-013	13.0	1/2	18.0	23	92	0.15
IPCF-016	16.0	5/8	21.5	21	84	0.20
IPCF-019	19.0	3/4	25.0	21	84	0.25
IPCF-025	25.0	1	32.0	21	84	0.38
IPCF-032	32.0	1.1/4	40.0	20	80	0.60
IPCF-038	38.0	1.1/2	47.0	16	64	0.73
IPCF-050	50.0	2	61.0	10	40	1.26



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, agriculture etc

Temperature Range:

-25°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

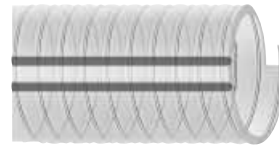
Lay line example: Black text on red background. Note comment above

PIRTEK LAYFLAT IPML 8.27 bar (120 psi) WORK. PRESS

Product Code	Nominal ID		OD mm	Pressure bar		Weight Kg/m
	mm	in		working	min burst	
IPML-038	38	1.1/2	na	8.27	33	0.30
IPML-050	50	2	na	8.27	33	0.41
IPML-063	63	2.1/2	na	8.27	33	0.58
IPML-075	75	3	na	8.27	33	0.70
IPML-100	100	4	na	7.58	30	1.05
IPML-150	150	6	na	3.80	15	1.60

IPSF

PIRTEK-FLEX SPRING



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

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

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 transparent background with red and blue trace lines. Note comment above

PIRTEK CLASS SPRING-FLEX IPSF-19 10 BAR (140psi) 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	1/2	18	15	45	0.9	52	0.23
IPSF-015	15	5/8	22	11	33	0.9	64	0.32
IPSF-019	19	3/4	26	10	30	0.9	45	0.38
IPSF-025	25	1	33	8	24	0.9	60	0.54
IPSF-032	32	1.1/4	41	7	21	0.9	80	0.77
IPSF-038	38	1.1/2	48	6	18	0.9	90	0.97
IPSF-050	50	2	62	4	12	0.9	125	1.47
IPSF-063	63	2.1/2	80	3	9	0.9	160	2.25
IPSF-076	75	3	92	3	9	0.9	200	2.75

IPHB 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

Oil resistant suction and discharge hose suitable for diesel oil, mineral oil, lubricating oils, various petroleum grades, petroleum derivatives, light chemicals etc

Temperature Range:

-25°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

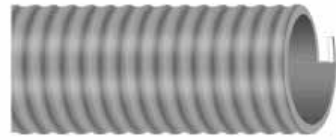
Lay line example: Black text on blue background. Note comment above

PIRTEK HELIX-BLUE IPHB 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		
IPHB-025	25	1	34.2	6.75	27	0.9	125	0.58
IPHB-032	32	1.1/4	41.6	5.5	22	0.9	160	0.67
IPHB-038	38	1.1/2	48	5.5	22	0.9	190	0.77
IPHB-051	51	2	62.2	5.0	20	0.9	250	1.18
IPHB-063	63.5	2.1/2	75	4.5	18	0.9	315	1.58
IPHB-076	76	3	88.4	4.25	17	0.9	380	1.96
IPHB-102	102	4	116.4	3.25	13	0.9	510	3.28

IPHG

HELIX-GREY



Construction

Inner Tube:

Grey smooth PVC

Reinforcement:

White PVC spiral rib

Cover:

Grey ribbed PVC compound resistant to ageing, weather and ozone

Applications

Heavy duty hardwall suction and delivery hose designed for the rigours of quarries, building construction, mining, agriculture / irrigation and general industry

Temperature Range:

-20°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 HELIX-GREY IPHG 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		
IPHG-038	38	1.1/2	47.0	7.9	24	0.9	190	0.67
IPHG-051	51	2	60.4	7.2	22	0.9	250	1.0
IPHG-063	63.5	2.1/2	73.4	6.5	20	0.9	315	1.35
IPHG-076	76	3	87.4	5.8	18	0.9	380	1.74
IPHG-102	102	4	114.2	4.4	14	0.9	510	2.68



This page is part of a complete catalogue containing technical and safety data.
All data must be reviewed when selecting a product.
Pirtek reserve the right to change technical specifications without notice.

Rev. 1

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 helices 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

IS901

HEAVY DUTY PETROL MASTER



Construction

Inner Tube:

Polypropylene film and fabric composite

Reinforcement:

Internal wire of galvanised steel

External wire of galvanised steel

Cover:

Black PVC coated fabric composite

Optional rope lagged

Applications

Ship to shore and general purpose heavy duty applications conveying petroleum products

Temperature Range:

-20°C up to +80°C

Comment:

Reference Specifications

Complies with AS 2117

Limitations:

Refer to Pirtek for specific applications and chemical compatibility

Hose Tails:

Industrial fittings

Kamloks

Wire whip

Lay line example: Not applicable. Refer to compliance tag attached to hose assembly

Product Code	Nominal ID		OD mm	Pressure bar @ 20 °C		Min bend radius mm	Weight Kg/m	Coil Length m
	mm	in		working	min burst			
IS901-025	25	1	35	14	56	100	0.9	18.3
IS901-032	32	1.1/4	42	14	56	125	1.3	18.3
IS901-040	40	1.1/2	50	14	56	140	1.5	18.3
IS901-050	50	2	65	12	48	170	1.9	18.3
IS901-063	63	2.1/2	76	10	40	200	3.0	18.3
IS901-076	76	3	90	10	40	270	3.4	18.3
IS901-100	100	4	120	10	40	340	6.5	18.3
IS901-150	150	6	180	10	40	700	12.4	18.3

IS1000

STANDARD PETROL MASTER



Construction

Inner Tube:

Polypropylene film and fabric composite

Reinforcement:

Internal wire of galvanised steel

External wire of galvanised steel

Cover:

Green PVC coated fabric composite with yellow identifying stripe

Optional rope lagged

Applications

Light weight, flexible hose designed for suction and delivery of petroleum based products

Temperature Range:

-20°C up to +80°C

Comment:

Green hose with yellow identifying stripe and external galvanised steel helix

Reference Specifications

Complies with AS 2683

Limitations:

Refer to Pirtek for specific applications and chemical compatibility

Hose Tails:

Industrial fittings

Kamloks

Wire whip

Lay line example: Not applicable. Refer to compliance tag attached to hose assembly

Product Code	Nominal ID		OD mm	Pressure bar @ 20 °C		Min bend radius mm	Weight Kg/m	Coil Length m
	mm	in		working	min burst			
IS1000-025	25	1	32	7	28	60	0.8	18.3
IS1000-032	32	1.1/4	38	7	28	75	1.0	18.3
IS1000-040	40	1.1/2	48	7	28	75	1.3	18.3
IS1000-050	50	2	63	6	24	90	1.6	18.3
IS1000-063	63	2.1/2	75	5	20	100	2.4	18.3
IS1000-076	76	3	90	5	20	125	2.8	18.3
IS1000-100	100	4	112	4	16	200	4.1	18.3
IS1000-150	150	6	170	4	16	400	7.8	18.3

IS1003

LIGHTWEIGHT PETROL MASTER



Construction

Inner Tube:

Polypropylene film and fabric composite

Reinforcement:

Internal wire of aluminium

External wire of galvanised steel

Cover:

Yellow PVC coated fabric composite with green stripe

Optional rope lagged

Applications

Super lightweight hose for suction and delivery of petroleum based products where ease of handling is paramount

Temperature Range:

-20°C up to +80°C

Comment:

Yellow hose with external galvanised steel helix and green stripe

Reference Specifications

Complies with AS 2117

Limitations:

Refer to Pirtek for specific applications and chemical compatibility

Hose Tails:

Industrial fittings

Kamloks

Wire whip

Lay line example: Not applicable. Refer to compliance tag attached to hose assembly

Product Code	Nominal ID		OD mm	Pressure bar @ 20 °C		Min bend radius mm	Weight Kg/m	Coil Length m
	mm	in		working	min burst			
IS1003-050	50	2	63	6	24	90	1.25	18.3
IS1003-063	63	2.1/2	75	5	20	100	1.75	18.3
IS1003-080	80	3	90	5	20	125	2.0	18.3
IS1003-100	100	4	112	4	16	200	2.5	18.3

ISAVION

AVIATION REFUELLING HOSE



Construction

Inner Tube:

Polypropylene film and fabric composite

Reinforcement:

Internal wire of stainless steel

External wire of stainless steel

Cover:

Black PVC coated fabric composite with blue identifying stripe

Optional rope lagged

Applications

Specially designed for the suction and delivery of aviation fuels

Temperature Range:

-20°C up to +80°C

Comment:

Black hose with blue identifying stripe and external stainless steel helix

Reference Specifications

Limitations:

Refer to Pirtek for specific applications and chemical compatibility

Hose Tails:

Industrial fittings

Kamloks

Wire whip

Lay line example: Not applicable. Refer to compliance tag attached to hose assembly

Product Code	Nominal ID		OD mm	Pressure bar @ 20 °C		Min bend radius mm	Weight Kg/m	Coil Length m
	mm	in		working	min burst			
ISAVION-050	50	2	63	6	24	90	1.6	18.3
ISAVION-080	80	3	90	5	20	125	2.8	18.3
ISAVION-100	100	4	112	4	16	200	4.1	18.3

ISVAP

VAPOUR RECOVERY HOSE



Construction

Inner Tube:

Polypropylene film and fabric composite

Reinforcement:

Internal wire of galvanised steel

External wire of galvanised steel

Cover:

Black PVC coated fabric composite with yellow identifying stripe

Optional rope lagged

Applications

For the collection of hydrocarbon vapours within the petroleum industry

Temperature Range:

-20°C up to +80°C

Comment:

Black hose with yellow stripe and external galvanised steel helix

Reference Specifications

Limitations:

Refer to Pirtek for specific applications and chemical compatibility

Hose Tails:

Industrial Kamloks with check valve
Wire whip

Lay line example: Not applicable. Refer to compliance tag attached to hose assembly

Product Code	Nominal ID		OD mm	Pressure bar @ 20 °C		Min bend radius mm	Weight Kg/m	Coil Length m
	mm	in		working	min burst			
ISVAP-100	100	4	112	4	16	200	4.1	18.3

IS951

STANDARD CHEMIFLOW



Construction

Inner Tube:

Polypropylene film and fabric composite

Reinforcement:

Internal wire of polypropylene coated galv. steel

External wire of galvanised steel

Cover:

Grey PVC coated fabric composite with red identifying stripe

Optional rope lagged

Applications

Suitable for the suction and delivery of chemicals. Resistant to most acids, alkalis and solvents. Refer to Pirtek for specific applications

Temperature Range:

-20°C up to +100°C

Comment:

Grey hose with reidentifying stripe and external galvanised steel helix

Reference Specifications

Limitations:

Refer to Pirtek for specific applications and chemical compatibility

Hose Tails:

Industrial fittings

Kamloks

Wire whip

Lay line example: Not applicable. Refer to compliance tag attached to hose assembly

Product Code	Nominal ID		OD mm	Pressure bar @ 20 °C		Min bend radius mm	Weight Kg/m	Coil Length m
	mm	in		working	min burst			
IS951-025	25	1	38	14	56	100	0.9	18.3
IS951-032	32	1.1/4	45	14	56	125	1.3	18.3
IS951-040	40	1.1/2	50	14	56	140	1.5	18.3
IS951-050	50	2	65	12	48	170	1.8	18.3
IS951-063	63	2.1/2	78	10	40	200	2.7	18.3
IS951-080	80	3	92	10	40	270	3.3	18.3
IS951-100	100	4	120	10	40	340	6.3	18.3

IS952

CHEMIFLOW SSW



Construction

Inner Tube:

Polypropylene film and fabric composite

Reinforcement:

Internal wire of polypropylene coated galv. steel

External wire of stainless steel

Cover:

Grey PVC coated fabric composite with red identifying stripe

Optional rope lagged

Applications

Ship to shore and general purpose chemical applications conveying acids and alkalis

Temperature Range:

-20°C up to +100°C

Comment:

Grey hose with red identifying stripe and external stainless steel helix

Reference Specifications

Limitations:

Refer to Pirtek for specific applications and chemical compatibility

Hose Tails:

Industrial fittings

Kamloks

Wire whip

Lay line example: Not applicable. Refer to compliance tag attached to hose assembly

Product Code	Nominal ID		OD mm	Pressure bar @ 20 °C		Min bend radius mm	Weight Kg/m	Coil Length m
	mm	in		working	min burst			
IS952-025	25	1	38	14	56	100	0.9	18.3
IS952-032	32	1.1/4	45	14	56	125	1.3	18.3
IS952-040	40	1.1/2	50	14	56	140	1.5	18.3
IS952-050	50	2	65	12	48	170	1.8	18.3
IS952-063	63	2.1/2	78	10	40	200	2.7	18.3
IS952-080	80	3	92	10	40	270	3.3	18.3
IS952-100	100	4	120	10	40	340	6.3	18.3

IS969

CHEMIFLOW CS



Construction

Inner Tube:

Polypropylene film and fabric composite

Reinforcement:

Internal wire of stainless steel

External wire of galvanised steel

Cover:

Orange PVC coated fabric composite with blue identifying stripe

Optional rope lagged

Applications

Suitable for the suction and delivery of chemicals. Resistant to most acids, alkalis and solvents. Refer to Pirtek for specific applications

Temperature Range:

-20°C up to +100°C

Comment:

Orange hose with blue identifying stripe and external galvanised steel helix

Reference Specifications

Limitations:

Refer to Pirtek for specific applications and chemical compatibility

Hose Tails:

Industrial fittings

Kamloks

Wire whip

Lay line example: Not applicable. Refer to compliance tag attached to hose assembly

Product Code	Nominal ID		OD mm	Pressure bar @ 20 °C		Min bend radius mm	Weight Kg/m	Coil Length m
	mm	in		working	min burst			
IS969-025	25	1	38	14	56	100	0.9	18.3
IS969-032	32	1.1/4	45	14	56	125	1.3	18.3
IS969-040	40	1.1/2	50	14	56	40	1.5	18.3
IS969-050	50	2	65	12	48	170	1.9	18.3
IS969-063	63	2.1/2	78	10	40	200	3.0	18.3
IS969-080	80	3	92	10	40	270	3.4	18.3
IS969-100	100	4	120	10	40	340	6.5	18.3
IS969-150	150	6	180	10	40	700	12.4	18.3



Construction

Inner Tube:

Polypropylene film and fabric composite

Reinforcement:

Internal wire of stainless steel

External wire of stainless steel

Cover:

Grey PVC coated fabric composite with red stripe

Optional rope lagged

Applications

Suitable for the suction and delivery of chemicals. Resistant to most acids, alkalis and solvents. Refer to Pirtek for specific applications

Temperature Range:

-20°C up to +100°C

Comment:

Grey hose with red identifying strip and external and internal stainless steel helices

Reference Specifications

Limitations:

Refer to Pirtek for specific applications and chemical compatibility

Hose Tails:

Industrial fittings

Kamloks

Wire whip

Lay line example: Not applicable. Refer to compliance tag attached to hose assembly

Product Code	Nominal ID		OD mm	Pressure bar @ 20 °C		Min bend radius mm	Weight Kg/m	Coil Length m
	mm	in		working	min burst			
ISCHEMSS-025	25	1	38	14	56	100	0.9	18.3
ISCHEMSS-040	40	1.1/2	50	14	56	140	1.5	18.3
ISCHEMSS-050	50	2	65	12	48	170	1.8	18.3
ISCHEMSS-063	63	2.1/2	78	10	40	200	2.7	18.3
ISCHEMSS-080	80	3	92	10	40	270	3.3	18.3
ISCHEMSS-100	100	4	120	10	40	340	6.3	18.3

ALPHANUMERIC INDEX

Product	Page No.	Product	Page No.	Product	Page No.
Aerospace Industrial Tape	I 044	IPAF	I 049	Lightwt. Petrol Master	I 059
Aerospace Silco Sleeve	I 044	IPCF	I 050	Liquid Food	I 025
Air / Water	I 012	IPHB	I 053	Live Length Formula	I 039
Air-Flex	I 043	IPHG	I 054	Live Length Offset Chart	I 040
Aviation Refuelling	I 060	IPML	I 051	Marine Exhaust	I 032
Beverage Delivery	I 023	IPSF	I 052	METALLIC	I 031
Blue-Flex	I 008	IRAW	I 012	MPH	I 009
Chemiflow ASS	I 065	IRBD	I 023	Multipurpose	I 009
Chemiflow CS	I 064	IRBF	I 008	Oil Fuel Suction	I 019
Chemiflow SSW	I 063	IRC	I 028	Overview	I 004 / 5
Chemiflow Standard	I 062	IRCOSD	I 020	Pirtekflex Chemical	I 021
Clear-Flex	I 044	IRCS	I 029	Pirtek-Flex Air	I 049
Code Hoses	I 050	IRDM	I 027	Pirtek-Flex Clear	I 050
Composite Hose Info	I 056	IRFAW	I 014	Pirtek-Flex Spring	I 052
Concrete	I 028	IRFC	I 021	Premium Air Water	I 011
Concrete Steel 80	I 029	IRHAB	I 026	Premium Chemical	I 022
Convolute Hoses Start	I 035	IRLF	I 025	Premium Food	I 024
Convolute Technical Info	I 036	IRME	I 032	Radiator Hose	I 031
Corrugated Oil Suct. / Del.	I 020	IROFSD	I 019	Red-Flex	I 007
Crimp Rings	I 043	IRPAW	I 011	Safety Warning	I 003
CTAESL	I 044	IRPC	I 022	Sandblast Hose	I 030
CTBRAID	I 043	IRPF	I 024	Sealant Tape	I 044
CTDWRNG	I 043	IRR	I 031	Silco Industrial Tape	I 044
CTFGSL	I 045	IRRF	I 007	Silco Tape Sealant	I 044
CTINSL	I 044	IRSA	I 010	Silica Sleeve	I 045
CTSISL	I 045	IRSB	I 030	Spring-Flex	I 046
CTSITA	I 044	IRSS	I 018	Standard Chemiflow	I 062
CTSWRNG	I 043	IRWD	I 013	Stainless Steel Braid	I 043
Dry Materials	I 027	IRWDR/W	I 016	Standard Flex Stainless Steel	I 037
Elastomer Properties	I 033	IRWSD	I 015	Standard Petrol Master	I 058
End Fittings	I 042	IS1000	I 058	Steam Hose Warning	I 017
Fast Find Table	I 006	IS1003	I 059	Steel Air	I 010
Fibreglass Sleeve	I 045	IS901	I 057	Steel Steam	I 018
FRAS Air / Water / Stonedust	I 014	IS951	I 062	STH	I 046
H. Duty Petrol Master	I 057	IS952	I 063	Super Flex Stainless Steel	I 038
Helix-Blue	I 053	IS969	I 064	Teflon Hose	I 046
Helix-Grey	I 054	ISAVION	I 060	Vapour Recovery Hose	I 061
Hot Air Blower	I 026	ISCHEMSS	I 065	Washdown Red / White	I 016
Industrial Silco Sleeve	I 037	ISVAP	I 061	Water Delivery	I 013
Install Guide Convolute	I 041	Layflat	I 051	Water Suction	I 015

