



HOSE & COUPLINGS

5ELEM HI-TECH CORPORATION



5ELEM

For the Value of Innovation

WHO WE ARE

- Founded in 1983
- One of the world's leading manufacturers of layflat Hose and Couplings
- Our vision –the pioneer of global high-end layflat hose industry
- Our value – Morality, Innovation, Sustainability

WHAT WE DO

- Fire Hose
- Industrial Hose
- Agricultural Hose
- Potable Water Hose
- Marine Hose
- Oil & Gas Hose
- Couplings
- Design & OEM services

WHY US

- Top quality products
- Obtained over 20 certificates for variety industries
- Global fast delivery and warranty
- Business covering over 120 countries



STRONG R&D AND MANUFACTURING CAPABILITY

5ELEM Hi-Tech Corporation



Covering **300** Acres



42 Production Lines



600 Employees



Exporting to **120** Countries



Max. DN **1200**



Over **200** Patents



Production lines for super long large diameter hose



Self-modified circular weaving machine



Large diameter turning machine



Fully automated extrusion equipment

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FIRE HOSE

- 06 Attack Hose - FAD
- 07 Attack Hose - FAS
- 08 Attack Hose - DUZ
- 09 Supply Hose - RFL
- 10 Supply Hose - PFH
- 11 Supply Hose - PFL
- 12 Forestry Fire Hose - HBX
- 13 Forestry Fire Hose - HBS
- 14 Forestry Fire Hose - HBS II
- 15 Semi-rigid Hose - STS/SES/SPS
- 16 Fire Hose - DIN 14811
- 17 Fire Hose - BS6391 Type1 & 2
- 18 Rack Hose - RAS
- 19 Rack Hose - RBS
- 20 Rack Hose - RBX
- 21 Fire Cabinet Hose - SINFLEX
- 22 Fire Cabinet Hose - HIGFLEX



Attack Hose - FAD

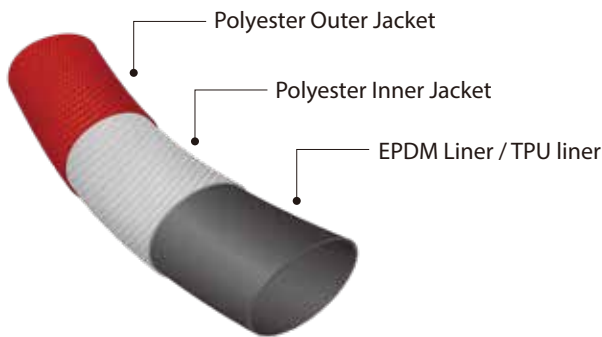
Double Jacket, EPDM Liner or TPU Liner

★ Features

- Polyester double jacket provides outstanding abrasion resistance, EPDM lining has good resistance to ageing and chemicals
- TPU lining is also available which provides lowest friction loss and is less-weighted
- Optional innovative Wisentec™ coating of NFPA colors provides mildew protection and increases resistance to abrasion, heat, flame and petro-chemical
- Remain flexible at the temperature as low as -40°F / -40°C
- Applicable to Brass/Alu NST/NPSH threaded couplings, other type on request
- Standard length 50'; 100'; 200'; other length on request







📦 Construction



🛡️ Standard

- FM 2111 and UL 19 approved
- Meets or exceeds NFPA 1961
- Within ISO-9001 quality management system

📊 Technical Data

Nominal Size		Working Pressure		Test Pressure		Burst Pressure		Certification
inch	mm	psi	bar	psi	bar	psi	bar	
1-1/2"	38	400	28	800	56	1200	84	  
1-3/4"	45	400	28	800	56	1200	84	
2"	52	400	28	800	56	1200	84	
2-1/2"	65	400	28	800	56	1200	84	
3"	75	400	28	800	56	1200	84	
Nominal Size		Working Pressure		Test Pressure		Burst Pressure		Certification
inch	mm	psi	bar	psi	bar	psi	bar	
1-1/2"	38	300	21	600	42	900	63	
2-1/2"	65	300	21	600	42	900	63	

Attack Hose - FAS

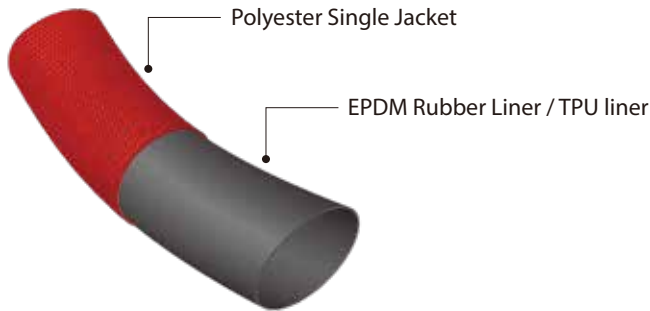
Single Jacket, EPDM Rubber Liner

★ Features

- Single jacket made from 100% high tensile strength Polyester yarns provides good resistance to abrasion, oxidation and UV
- Optional innovative Wisentec™ coating of NFPA colors provides mildew protection and increases resistance to abrasion, heat, flame and petro-chemical
- Remain flexible at the temperature as low as -40°F / -40°C
- Applicable to Brass/Alu NST/NPSH threaded couplings, other type on request
- Standard length 50', 100', 200', other length on request
- TPU lining is also available which provides lowest friction loss and is less-weighted



📦 Construction



🛡️ Standard

- FM 2111 and UL 19 approved
- Meets or exceeds NFPA 1961
- Within ISO-9001 quality management system

📊 Technical Data

Nominal Size		Working Pressure		Test Pressure		Burst Pressure		Certification
inch	mm	psi	bar	psi	bar	psi	bar	
1-1/2"	38	250, 300	17, 21	500, 600	34, 42	750, 900	51, 63	FM APPROVED
1-3/4"	45	250, 300	17, 21	500, 600	34, 42	750, 900	51, 63	
2"	52	250, 300	17, 21	500, 600	34, 42	750, 900	51, 63	
2-1/2"	65	250, 300	17, 21	500, 600	34, 42	750, 900	51, 63	
Nominal Size		Working Pressure		Test Pressure		Burst Pressure		Certification
inch	mm	psi	bar	psi	bar	psi	bar	
1-1/2"	38	150, 200	10, 14	300, 400	20, 28	450, 600	30, 42	
2-1/2"	65	200, 250	14, 17	400, 500	28, 34	600, 750	42, 51	

Attack Hose - DUZ

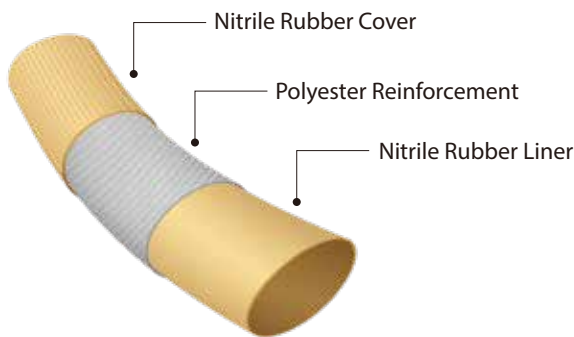
Nitrile Rubber as cover and liner

★ Features

- Ribbed cover with great abrasion resistance, smooth liner for minimum friction loss
- Resistant to weather, UV, oxidation and most chemicals or petroleum products
- Flexible to deploy and roll up, compact coil for storage
- Temperature range from -4°F to 158°F (-20°C to 70°C)
- Applicable to Brass/Alu NST/NPSH threaded couplings, other type on request
- Standard length 50'; 100'; 200'; up to 660'
- Available with customized color, couplings and marking



📦 Construction



🛡️ Standard

- Meets or exceeds UL 19 AND BS 6391
- Within ISO-9001 quality management system

📊 Technical Data

Nominal Size		Working Pressure		Burst Pressure		Average Weight		Wall Thickness		Certification
inch	mm	psi	bar	psi	bar	Lbs./ft.	Kg/m	inch	mm	
1-1/2"	38	250,300	17,21	750,900	51,63	0.21	0.31	0.083	2.1	
1-3/4"	45	250,300	17,21	750,900	51,63	0.24	0.36	0.114	2.9	
2"	52	250,300	17,21	750,900	51,63	0.30	0.45	0.118	3.0	
2-1/2"	65	250,300	17,21	750,900	51,63	0.39	0.58	0.118	3.0	
3"	75	250,300	17,21	750,900	51,63	0.58	0.87	0.118	3.0	
Nominal Size		Working Pressure		Burst Pressure		Average Weight		Wall Thickness		Certification
inch	mm	psi	bar	psi	bar	Lbs./ft.	Kg/m	inch	mm	
1-1/2"	38	218	15	654	45	0.209	0.311	0.083	2.1	
2"	52	218	15	654	45	0.279	0.415	0.114	2.9	
2-1/2"	65	218	15	654	45	0.383	0.570	0.118	3.0	

Supply Hose - RFL

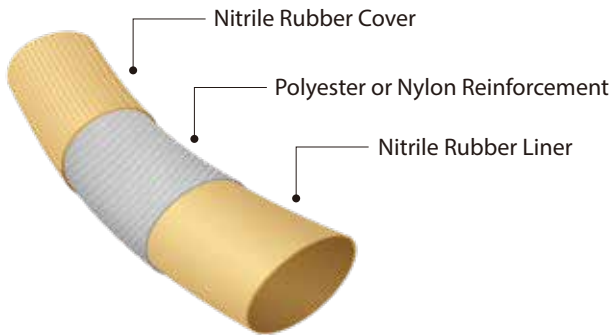
Nitrile Rubber as cover and liner

★ Features

- Ribbed cover with great abrasion resistance and long service life
- Ultra-smooth liner for maximum flow with minimum friction loss
- Resistant to heat, hot embers, cuts, most petrochemicals
- Flexible, kink resistant, easy to deploy and retrieve
- Temperature range from -4°F to 176°F (-20°C to 80°C)
- Maintenance-free and no drying required
- Other colors on request including red, orange, yellow etc
- Storz coupling and others on request
- Size larger than 6inch on request
- Customized marking



📦 Construction



🛡️ Standard

- Meet or exceed NFPA 1961
- Meet or exceed UL/ULC

📊 Technical Data

Nominal Size		Working Pressure		Burst Pressure		Weight		Wall Thickness		Certification
inch	mm	psi	bar	psi	bar	Lbs./ft.	Kg/m	inch	mm	
4"	102	250	17	750	51	0.60	0.89	0.102	2.6	
5"	127	250	17	750	51	0.80	1.19	0.110	2.8	
6"	152	225	16	675	48	1.02	1.52	0.118	3.0	



FIRE HOSE



INDUSTRIAL HOSE



AGRICULTURAL HOSE



POTABLE WATER HOSE



MARINE HOSE



OIL & GAS HOSE



COUPLINGS

Supply Hose - PFH

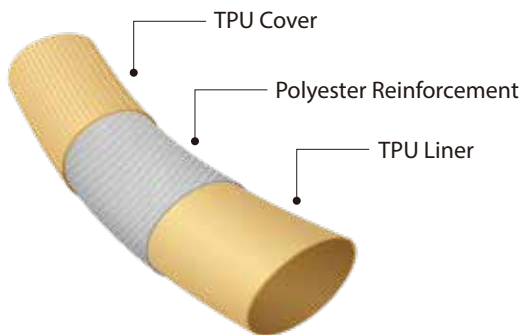
TPU as cover and liner

★ Features

- Excellent abrasion resistance
- Much lighter than the conventional rubber lined fire hoses
- Highly resistant to delamination, ozone, oxidation and most chemical/petroleum products
- Ultra-smooth liner for maximum flow with minimum friction loss
- Temperature range from -49°F to 176°F (-45°C to 80°C)
- Maintenance-free and no drying required
- Other colors on request including red, orange, yellow etc
- Storz coupling and others on request
- Size larger than 6inch on request
- Customized marking



📦 Construction



🛡️ Standard

- meet or exceed NFPA 1961

📊 Technical Data

Nominal Size		Working Pressure		Burst Pressure		Weight		Wall Thickness		Tensile Strength	
inch	mm	psi	bar	psi	bar	Lbs./ft.	Kg/m	inch	mm	Lbs.	Kg
3"	76	300	21	900	63	0.40	0.60	0.087	2.2	29480	13400
4"	102	250	17	750	51	0.60	0.89	0.102	2.6	32640	16320
5"	127	225	16	675	48	0.80	1.19	0.110	2.8	35400	17700
6"	152	225	16	675	48	1.02	1.52	0.118	3.0	46200	21000

Supply Hose - PFL

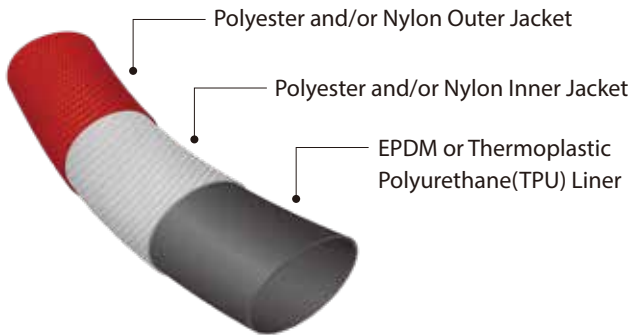
Polyester Double Jacket Hose

★ Features

- Deliver water faster and large volume as supply line hose
- Superior adhesion strength and low kinking performance
- Tough and lightweight, easy to deploy and no drying required
- Reverse twill weave method for inner jacket brings low friction loss
- The color treatment on outer jacket increases abrasion and mildew resistance
- Temperature range from -40°F to 158°F (-40°C to 70°C)




📦 Construction



🛡️ Standard

- Manufactured in accordance with NFPA 1961 Standard, latest edition within our ISO-9001 certified quality assurance system

📊 Technical Data

Nominal Size		Working Pressure		Test Pressure		Burst Pressure		Certification
inch	mm	psi	bar	psi	bar	psi	bar	
4"	102	300	21	600	42	900	63	
5"	127	300	21	600	42	900	63	
6"	152	300	21	600	42	900	63	
7-1/4"	184	300	21	600	42	900	63	

Forestry Fire Hose - HBX

Polyester Single Jacket Hose, TPU Liner

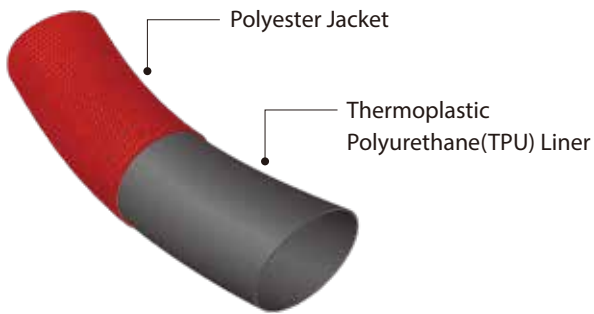


Features

- This hose is a forestry fire "mop-up" hose and is not intended to be a substitute for home garden hoses. It will kink with low pressure
- Lightweight. Coil diameter is 9 inches and weight is 1.25 lbs per 50'
- The polyurethane lining brings a smooth finish and reduces friction loss
- Color treatment on outer jacket greatly increases abrasion, heat and flame resistance while virtually eliminating water pick-up
- Coupled with brass garden hose threads(GHT) couplings



Construction



Standard

- NFPA 1961



Technical Data

Nominal Size		Working Pressure		Test Pressure		Burst Pressure		Certification
inch	mm	psi	bar	psi	bar	psi	bar	
5/8"	16	300	21	600	42	900	63	
3/4"	19	300	21	600	42	900	63	

Forestry Fire Hose - HBS

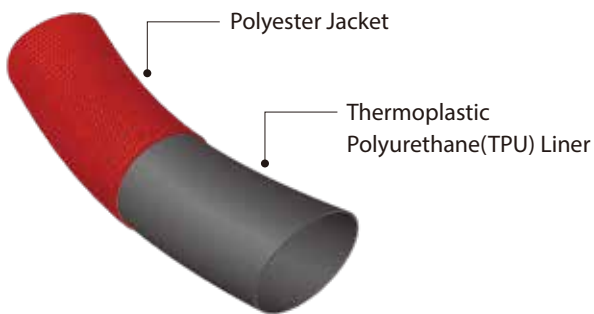
Polyester Single Jacket Forestry/Wildland Hose

Features

- This hose is strong and lightweight, easy to handle as forestry fire hose
- Color treatment improves durability and mildew resistance, no drying is required
- Polyurethane lining delivers more water and reduces friction loss
- Available in 50' and 100' lengths
- Remains flexible to -65°F (-45°C)
- This hose is coupled NPSH/NH threads rocker lug or ¼" turn forestry couplings




Construction



Standard

- This hose is manufactured to meet and exceeds the NFPA 1961 standard and USDA 5100-187c TYPE I and TYPE II
- Meets or exceeds ULC-S518.1-11

Technical Data

Nominal Size		Working Pressure		Test Pressure		Burst Pressure		Certification
inch	mm	psi	bar	psi	bar	psi	bar	
1"	25	300	21	600	42	900	63	
1-1/2"	38	300	21	600	42	900	63	

Forestry Fire Hose - HBS II -Weeping Hose/Percolating Hose

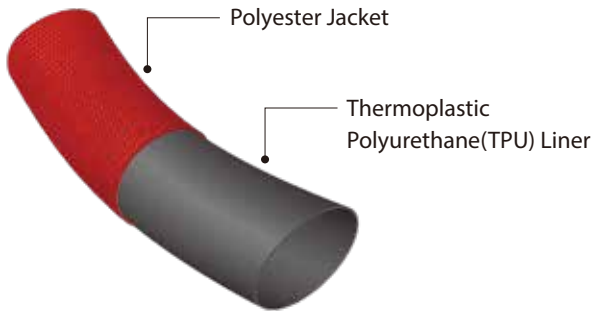
Polyester Single Jacket Forestry/Wildland Hose

★ Features

- This hose is strong and lightweight, easy to handle as forestry fire hose
- Polyurethane lining delivers more water and reduces friction loss
- Available in 50' and 100' lengths
- Remains flexible to -65°F (-45°C)
- This hose is coupled ¼" turn threadless couplings



📦 Construction



🛡️ Standard

- Meets or exceeds ULC-S519.1
- Meets NFPA 1961 standard

📊 Technical Data

Nominal Size		Working Pressure		Test Pressure		Burst Pressure		Certification
inch	mm	psi	bar	psi	bar	psi	bar	
1"	25	300	21	600	42	900	63	N/A
1-1/2"	38	300	21	600	42	900	63	

Semi-rigid Hose - STS/SES/SPS

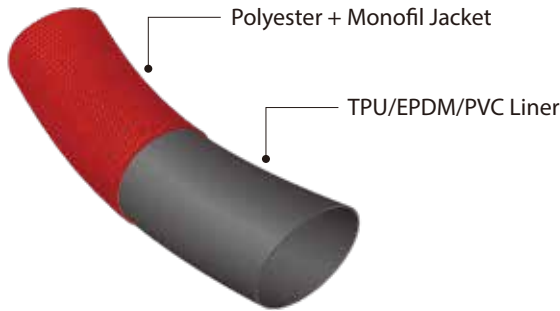
Polyester+ Monofil Single Jacket, TPU/EPDM/PVC liner

★ Features

- An easy and quick booster for fire vehicles, fire cabinet reels, and regular pumping
- Resistant to ozone & UV exposure, hydrolysis, and rot & mildew
- Smooth lining of optional materials TPU/EPDM/PVC, to ensure maximum flow
- Optional PU Coating for higher resistance to abrasion and ageing
- Couplings and nozzle or other fittings on request
- Standard length 50', 100', up to 200'/60.96m
- STS series with TPU liner suitable to temperature -40°F to 158°F (-40°C to 70°C)
- SES series with EPDM liner suitable at temperature -40°F to 176°F (-40°C to 80°C)
- SPS series with PVC liner suitable at temperature 14°F to 131°F (-10°C to 55°C)



📦 Construction



🛡️ Standard

- According to EN694
- Within ISO-9001 quality management system

📊 Technical Data

Nominal Size		Working Pressure		Burst Pressure		Bend Radius		Coil of 100ft		Certification
inch	mm	psi	bar	psi	bar	inch	mm	inch	mm	
3/4"	19	225, 300, 450, 600	15, 21, 30, 42	675, 900, 1350, 1800	45, 63, 90, 126	6	150	12	300	
1"	25	225, 300, 450, 600	15, 21, 30, 42	675, 900, 1350, 1800	45, 63, 90, 126	6	150	12	300	EN694
1-1/4"	32	225, 300, 450, 600	15, 21, 30, 42	675, 900, 1350, 1800	45, 63, 90, 126	10	280	20	500	
1-1/2"	40	225, 300, 450, 600	15, 21, 30, 42	675, 900, 1350, 1800	45, 63, 90, 126	20	500	20	500	

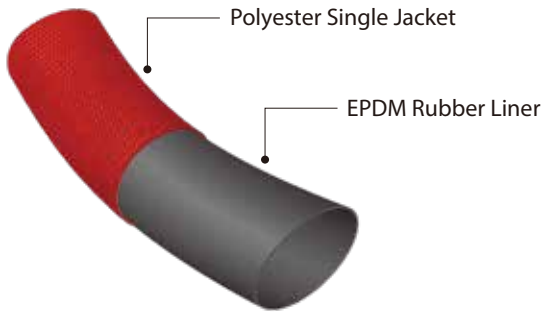
Fire Hose - DIN 14811

Single Jacket, EPDM Rubber Liner

Features

- Light weight lay-flat hose
- Low friction loss
- High aging resistance
- With an additional PU Coating outside for better abrasion resistance
- Temperature range from -50°F to 158°F (-50°C to 70°C)
- Easy maintenance and handling

Construction



Standard

- DIN14811 Class 1 & Class 2

Technical Data

Nominal Size		Working Pressure		Test Pressure		Burst Pressure		Certification
inch	mm	psi	bar	psi	bar	psi	bar	
1"	25	290	20	348	24	870	60	DIN
1-1/2"	38	290	20	348	24	870	60	
1-3/4"	45	290	20	348	24	870	60	
2"	52	290	20	348	24	870	60	
2-1/2"	65	290	20	348	24	870	60	
2-3/4"	70	290	20	348	24	870	60	
3"	75	290	20	348	24	870	60	
3 1/2"	90	174	12	261	18	507	35	
4"	102	174	12	261	18	507	35	
4-1/4"	110	174	12	261	18	507	35	
5"	127	174	12	261	18	507	35	/
6"	152	174	12	261	18	507	35	

Fire Hose - BS6391 Type1 & 2

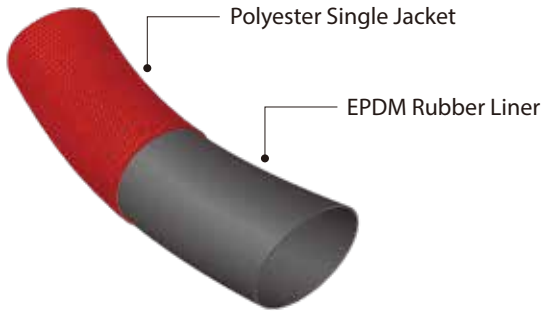
Single Jacket, EPDM Rubber Liner

★ Features

- Light weight lay-flat hose
- Low friction loss
- High aging resistance
- With an additional PU Coating outside for better abrasion resistance
- Temperature range from -50°F to 158°F (-50°C to 70°C)
- Easy maintenance and handling



📦 Construction



🛡️ Standard

- According to BS 6391 Type1 & Type2

📊 Technical Data

Nominal Size		Working Pressure		Test Pressure		Burst Pressure	
inch	mm	psi	bar	psi	bar	psi	bar
1-1/2"	38	218	15	348	24	652	45
1-3/4"	45	218	15	348	24	652	45
2"	52	218	15	348	24	652	45
2-1/2"	65	218	15	348	24	652	45
3"	75	218	15	348	24	652	45

Rack Hose - RAS

Single Jacket, EPDM Rubber Liner

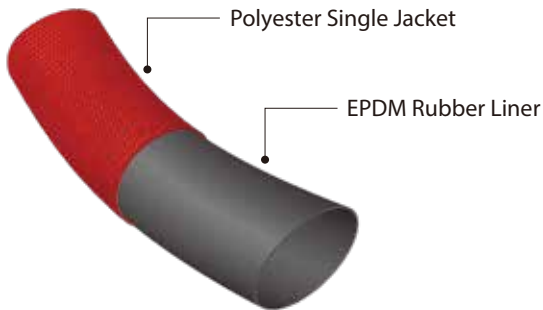


Features

- Spun polyester as warp
- Filament polyester as weft/filler
- Easy to deploy
- Low friction loss for maximum flow
- Additional coatings available to increase the abrasion resistance
- Temperature range from -40°F to 158°F (-40°C to 70°C)



Construction



Standard

- FM 2111/2131 approved



Technical Data

Nominal Size		Working Pressure		Test Pressure		Burst Pressure		Certification
inch	mm	psi	bar	psi	bar	psi	bar	
1-1/2"	38	150, 250	10, 17	300, 500	20, 34	450, 750	30, 51	
1-3/4"	45	150, 250	10, 17	300, 500	20, 34	450, 750	30, 51	
2"	52	150, 250	10, 17	300, 500	20, 34	450, 750	30, 51	
2-1/2"	65	150, 250	10, 17	300, 500	20, 34	450, 750	30, 51	

Rack Hose - RBS

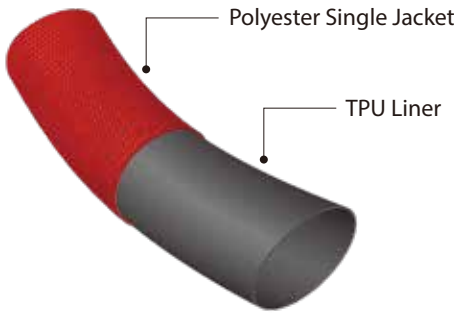
Single Jacket, TPU Liner

★ Features

- Compact and Light weight
- Easy to deploy
- Pin folded for ease of installation
- Low friction loss for maximum flow
- Additional coatings available to increase the abrasion resistance
- Temperature range from -40°F to 158°F (-40°C to 70°C)
- Spun polyester as warp
- Filament polyester as weft/filler



📦 Construction



🛡️ Standard

- FM 2111/2131 approved

📊 Technical Data

Nominal Size		Working Pressure		Test Pressure		Burst Pressure		Certification
inch	mm	psi	bar	psi	bar	psi	bar	
1-1/2"	38	150, 250	10, 17	300, 500	20, 34	450, 750	30, 51	
1-3/4"	45	150, 250	10, 17	300, 500	20, 34	450, 750	30, 51	
2"	52	150, 250	10, 17	300, 500	20, 34	450, 750	30, 51	
2-1/2"	65	150, 250	10, 17	300, 500	20, 34	450, 750	30, 51	

Rack Hose - RBX

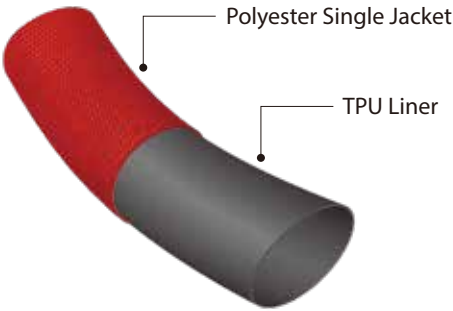
Single Jacket, TPU Liner

★ Features

- 100% filament polyester as both warp and weft/filler
- Compact and Light weight
- Easy to deploy
- Pin folded for ease of installation
- Low friction loss for maximum flow
- Additional coatings available to increase the abrasion resistance
- Temperature range from -58°F to 158°F (-50°C to 70°C)



📦 Construction



🛡️ Standard

- FM 2111/2131, UL, ULC219 approved

📊 Technical Data

Nominal Size		Working Pressure		Test Pressure		Burst Pressure		Certification
inch	mm	psi	bar	psi	bar	psi	bar	
1-1/2"	38	250	17	500	34	750	51	
1-3/4"	45	250	17	500	34	750	51	
2"	52	250	17	500	34	750	51	
2-1/2"	65	250	17	500	34	750	51	

Fire Cabinet Hose - SINFLEX

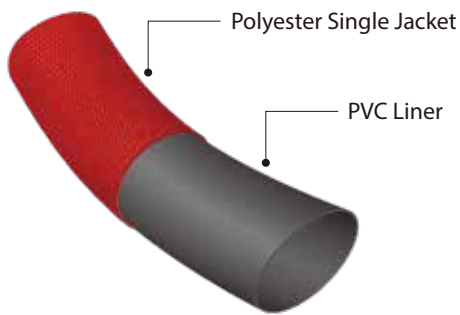
Single Jacket, PVC Liner

★ Features

- Light weight
- Good flexibility
- High elasticity
- The liner process produces an amazingly thin but smooth inner waterway
- Extreme low friction loss
- Temperature range from 14°F to 131°F (-10°C to 55°C)



📦 Construction



🛡️ Standard

- EN14540:2014 certified

📊 Technical Data

Nominal Size		Working Pressure		Test Pressure		Burst Pressure	
inch	mm	psi	bar	psi	bar	psi	bar
1-1/2"	38	218	15	348	24	652	45
1-3/4"	45	218	15	348	24	652	45
2"	52	218	15	348	24	652	45
2 1/2"	64	218	15	348	24	652	45
2 3/4"	70	218	15	348	24	652	45

Fire Cabinet Hose - HIGFLEX

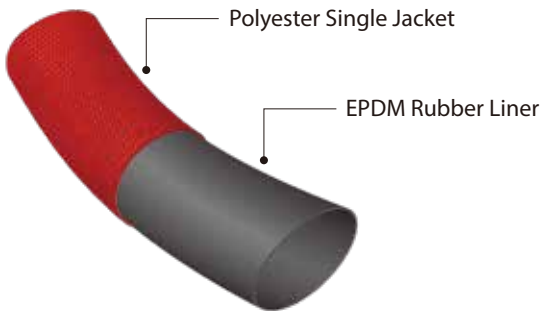
Single Jacket, EPDM Rubber liner

★ Features

- Light weight
- Good flexibility
- The liner process produces an amazingly thin but smooth inner waterway
- Extreme low friction loss
- Temperature range from -40°F to 158°F (-40°C to 70°C)



📦 Construction



🛡️ Standard

- EN14540:2014 certified

📊 Technical Data

Nominal Size		Working Pressure		Test Pressure		Burst Pressure	
inch	mm	psi	bar	psi	bar	psi	bar
1-1/2"	38	218	15	348	24	652	45
1-3/4"	45	218	15	348	24	652	45
2"	52	218	15	348	24	652	45
2 1/2"	64	218	15	348	24	652	45
2 3/4"	70	218	15	348	24	652	45



INDUSTRIAL HOSE

- 24 Mine Fire Hose - MFD
- 25 Mine Fire Hose - MFS
- 26 Mill Hose - MTD
- 27 Mill Hose - MRD
- 28 Mill Hose - MTS
- 29 Mill Hose - MRS
- 30 PVC Hose - DUY
- 31 Nitrile Rubber Hose - DUZ
- 32 TPU Covered Hose - HYPERFLOW
- 33 Well riser Hose - WELLMAX
- 34 Snow-making Hose - STM/STP

Mine Fire Hose - MFD

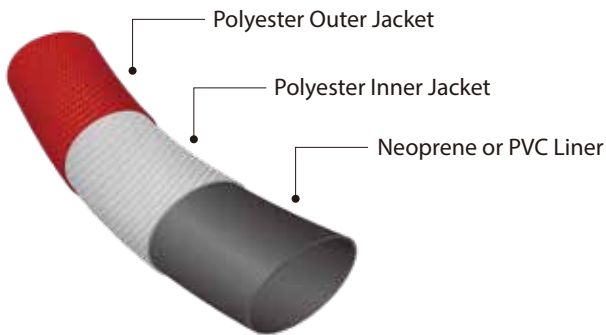
Double Jacket Neoprene/PVC Liner

★ Features

- MSHA standard approved
- Heavy duty mine hose for combating underground fire
- Highly resistant to aging, abrasion, ozone
- Flame and heat retardant and self-extinguishing
- Smooth liner reduce significantly friction loss for maximum flow
- Special strips woven into the jacket for high visibility
- Temperature range from -40°F to 158°F (-40°C to 70°C)
- Alu. and Brass couplings and others available on request
- Other diameters available
- Different length including 50', 75', 100' etc on request



📦 Construction



🛡️ Standard

- MSHA Approved

📊 Technical Data

Nominal Size		Service Test Pressure		Burst Pressure		Certification
inch	mm	psi	bar	psi	bar	
1-1/2"	38	250, 300, 400	17, 21, 28	750, 900, 1200	51, 63, 84	
1-3/4"	45	250, 300, 400	17, 21, 28	750, 900, 1200	51, 63, 84	
2"	52	250, 300, 400	17, 21, 28	750, 900, 1200	51, 63, 84	
2-1/2"	65	250, 300	17, 21	750, 900	51, 63	

Mine Fire Hose - MFS

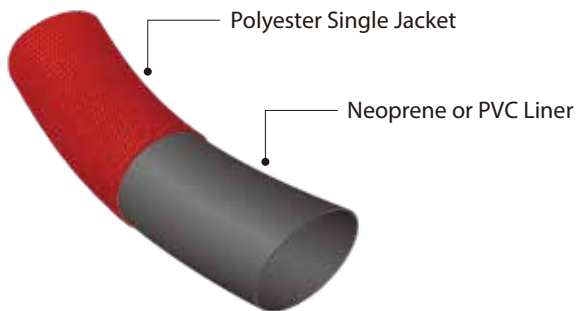
Single Jacket Neoprene/PVC Liner

★ Features

- MSHA standard approved
- Heavy duty mine hose for combating underground fire
- Highly resistant to aging, abrasion, ozone
- Flame and heat retardant and self-extinguishing
- Smooth liner reduce significantly friction loss for maximum flow
- Special strips woven into the jacket for high visibility
- Temperature range from -40°F to 158°F (-40°C to 70°C)
- Alu. and Brass couplings and others available on request
- Other diameters available
- Different length including 50', 75', 100' etc on request



📦 Construction



🛡️ Standard

- MSHA Approved

📊 Technical Data

Nominal Size		Service Test Pressure		Burst Pressure		Certification
inch	mm	psi	bar	psi	bar	
1-1/2"	38	250, 300, 400	17, 21, 28	750, 900, 1200	51, 63, 84	
1-3/4"	45	250, 300, 400	17, 21, 28	750, 900, 1200	51, 63, 84	
2"	52	250, 300, 400	17, 21, 28	750, 900, 1200	51, 63, 84	
2-1/2"	65	250, 300	17, 21	750, 900	51, 63	

Mill Hose - MTD

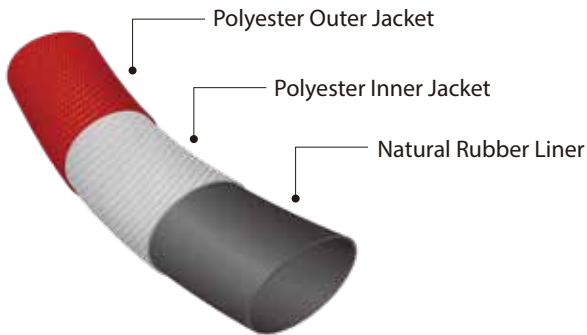
Thicker Double Jacket, Natural Rubber Liner

Features

- Heavy duty lay-flat hose with thicker double outer jacket
- Extra outer jacket provide higher abrasion, puncture and cut resistance
- Extra thicker cover make the hose ideal for rugged and tough conditions
- Temperature range from -22°F to 158°F (-30°C to 70°C)
- Alu. and Brass couplings and others available on request
- Other diameters available
- Different length including 50', 75', 100' etc on request
- Main application include water discharge, wash down, industrial fire fighting



Construction



Technical Data

Nominal Size		Service Test Pressure		Burst Pressure	
inch	mm	psi	bar	psi	bar
1-1/2"	38	250, 300, 400	17, 21, 28	750, 900, 1200	51, 63, 84
1-3/4"	45	250, 300, 400	17, 21, 28	750, 900, 1200	51, 63, 84
2"	52	250, 300, 400	17, 21, 28	750, 900, 1200	51, 63, 84
2-1/2"	65	250, 300, 400	17, 21, 28	750, 900, 1200	51, 63, 84
3"	75	250, 300, 400	17, 21, 28	750, 900, 1200	51, 63, 84
4"	102	250, 300, 400	17, 21, 28	750, 900, 1200	51, 63, 84
6"	152	200, 250	14, 17	600, 750	42, 51

Mill Hose - MRD

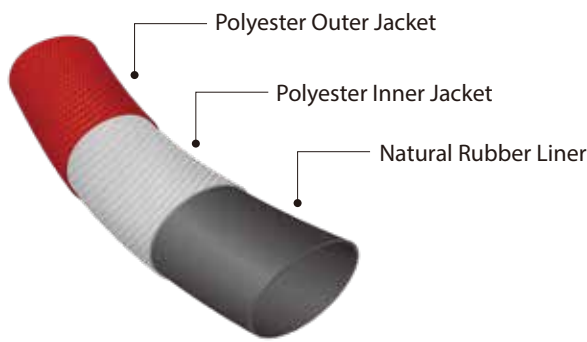
Standard Double Jacket, Natural Rubber Liner

★ Features

- Lighter than the MTD type
- Compact, light weight for easy handling
- Easy to deploy and retrieve
- Temperature range from -22°F to 158°F (-30°C to 70°C)
- Alu. and Brass couplings and others available on request
- Other diameters available
- Different length including 50', 75', 100' etc on request
- Main application include water discharge, wash down, industrial fire fighting



📦 Construction



📊 Technical Data

Nominal Size		Service Test Pressure		Burst Pressure	
inch	mm	psi	bar	psi	bar
1-1/2"	38	250, 300, 400	17, 21, 28	750, 900, 1200	51, 63, 84
1-3/4"	45	250, 300, 400	17, 21, 28	750, 900, 1200	51, 63, 84
2"	52	250, 300, 400	17, 21, 28	750, 900, 1200	51, 63, 84
2-1/2"	65	250, 300, 400	17, 21, 28	750, 900, 1200	51, 63, 84
3"	75	250, 300, 400	17, 21, 28	750, 900, 1200	51, 63, 84
4"	102	250, 300, 400	17, 21, 28	750, 900, 1200	51, 63, 84
6"	152	200, 250	14, 17	600, 750	42, 51

Mill Hose - MTS

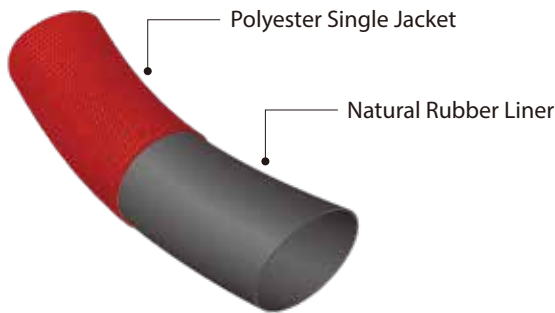
Thicker Single Jacket, Natural Rubber Liner

★ Features

- Heavy duty lay-flat hose with thicker outer jacket
- Excellent abrasion and puncture resistance
- Extra thicker cover, ideal for rugged and tough conditions
- Temperature range from -22°F to 158°F (-30°C to 70°C)
- Alu. and Brass couplings and others available on request
- Other diameters available
- Different length including 50', 75', 100' etc on request
- Main application include water discharge, wash down, industrial fire fighting



📦 Construction



📊 Technical Data

Nominal Size		Service Test Pressure		Burst Pressure	
inch	mm	psi	bar	psi	bar
1"	25	150, 200, 250, 300	10, 14, 17, 21	450, 600, 750, 900	30, 42, 51, 63
1-1/2"	38	150, 200, 250, 300	10, 14, 17, 21	450, 600, 750, 900	30, 42, 51, 63
1-3/4"	45	150, 200, 250, 300	10, 14, 17, 21	450, 600, 750, 900	30, 42, 51, 63
2"	52	150, 200, 250, 300	10, 14, 17, 21	450, 600, 750, 900	30, 42, 51, 63
2-1/2"	65	150, 200, 250, 300	10, 14, 17, 21	450, 600, 750, 900	30, 42, 51, 63
3"	75	150, 200	10, 14	450, 600	30, 42
4"	102	125, 150	9, 10	375, 450	26, 30
5"	127	125, 150	9, 10	375, 450	26, 30
6"	152	125, 150	9, 10	375, 450	26, 30

Mill Hose - MRS

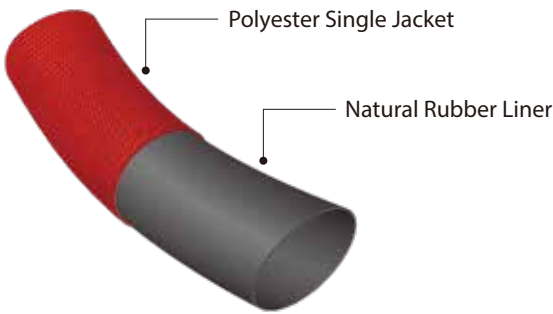
Standard Single Jacket, Natural Rubber Liner

★ Features

- Lighter than the MTS type
- Compact, light weight for easy handling
- Easy to deploy and retrieve
- Temperature range from -22°F to 158°F (-30°C to 70°C)
- Alu. and Brass couplings and others available on request
- Other diameters available
- Different length including 50', 75', 100' etc on request
- Main application include water discharge, wash down, industrial fire fighting



📦 Construction



📊 Technical Data

Nominal Size		Service Test Pressure		Burst Pressure	
inch	mm	psi	bar	psi	bar
1"	25	150, 200, 250, 300	10, 14, 17, 21	450, 600, 750, 900	30, 42, 51, 63
1-1/2"	38	150, 200, 250, 300	10, 14, 17, 21	450, 600, 750, 900	30, 42, 51, 63
1-3/4"	45	150, 200, 250, 300	10, 14, 17, 21	450, 600, 750, 900	30, 42, 51, 63
2"	52	150, 200, 250, 300	10, 14, 17, 21	450, 600, 750, 900	30, 42, 51, 63
2-1/2"	65	150, 200, 250, 300	10, 14, 17, 21	450, 600, 750, 900	30, 42, 51, 63
3"	75	150, 200	10, 14	450, 600	30, 42
4"	102	125, 150	9, 10	375, 450	26, 30
5"	127	125, 150	9, 10	375, 450	26, 30
6"	152	125, 150	9, 10	375, 450	26, 30

PVC Hose - DUY

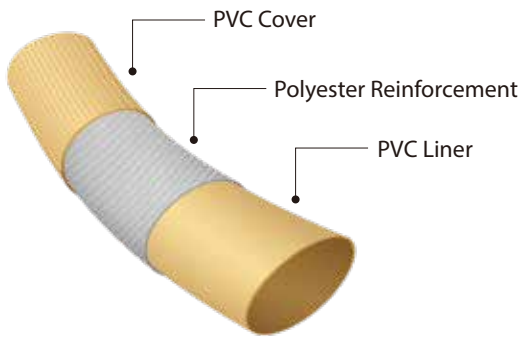
PVC as Cover & Liner

★ Features

- An economic choice for dewatering, water delivery, wash down
- Extremely lightweight and compact, easy to handle and maintain
- Excellent adhesion strength and low elongation by extruded-thru-the-weave processing
- Optional ribs along the length improves abrasion resistance on the cover
- Temperature range from -22°F to 158°F (-30°C to 70°C)
- Standard length 50', 100', 200', up to 660'
- Available with customized color, marking, couplings



📦 Construction



🛡️ Standard

- 5ELEM enterprise standard
- Within ISO-9001 quality management system

📊 Technical Data

Nominal Size*		Working Pressure*		Min. Burst Pressure*		Average Weight		Wall thickness	
inch	mm	psi	bar	psi	bar	Lbs./ft.	Kg/m	inch	mm
1"	25	150, 200, 250	10, 14, 17	450, 600, 750	30, 42, 51	0.161	0.24	0.005	1.60
1-1/2"	38	150, 200, 250	10, 14, 17	450, 600, 750	30, 42, 51	0.242	0.36	0.007	2.10
1-3/4"	45	150, 200, 250	10, 14, 17	450, 600, 750	30, 42, 51	0.269	0.40	0.005	1.60
2"	52	150, 200, 250	10, 14, 17	450, 600, 750	30, 42, 51	0.336	0.50	0.007	2.00
2-1/2"	65	150, 200, 250	10, 14, 17	450, 600, 750	30, 42, 51	0.437	0.65	0.007	2.20
3"	75	200	14	600	42	0.598	0.89	0.007	2.20
4"	102	150	10	450	30	0.706	1.05	0.008	2.30
5"	127	150	10	450	30	0.827	1.23	0.009	2.60
6"	152	150	10	450	30	1.008	1.50	0.010	2.90

* Other diameter or pressure on request

Nitrile Rubber Hose - DUZ

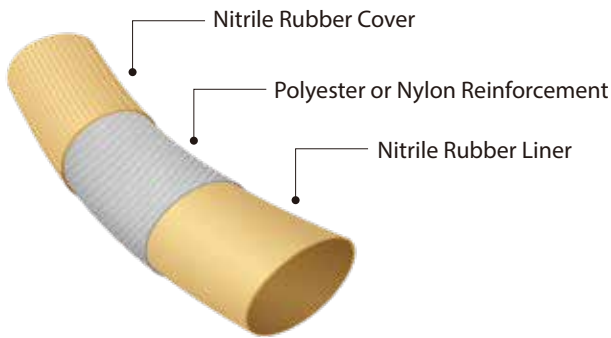
Nitrile Rubber as Cover & Liner

★ Features

- Tough, durable, easy to handle and maintain, suitable for most fluid delivery
- Excellent resistance to weather, UV, Ozone, chemicals and petroleum products
- Excellent adhesion strength and low elongation by extruded-thru-the-weave processing
- Temperature range from -4°F to 158°F (-20°C to 70°C)
- Standard length 50', 100', 200', up to 660'
- Available with customized color, marking, couplings



📦 Construction



🛡️ Standard

- 5ELEM enterprise standard
- Within ISO-9001 quality management system

📊 Technical Data

Nominal Size*		Working Pressure*		Min. Burst Pressure*		Average Weight		Wall thickness	
inch	mm	psi	bar	psi	bar	Lbs./ft.	Kg/m	inch	mm
1"	25	250, 300	17, 21	750, 900	51, 63	0.195	0.29	0.008	2.40
1-1/2"	38	250, 300	17, 21	750, 900	51, 63	0.235	0.35	0.008	2.40
1-3/4"	45	250, 300	17, 21	750, 900	51, 63	0.276	0.41	0.007	2.00
2"	52	250, 300	17, 21	750, 900	51, 63	0.316	0.47	0.008	2.40
2-1/2"	65	250, 300	17, 21	750, 900	51, 63	0.423	0.63	0.007	2.10
3"	75	200	14	600	42	0.611	0.91	0.009	2.70
4"	102	150	10	450	30	0.806	1.20	0.010	3.20
5"	127	150	10	450	30	1.075	1.60	0.013	4.00
6"	152	150	10	450	30	1.277	1.90	0.013	3.90

* Other diameter or pressure on request

TPU Covered Hose - HYPERFLOW

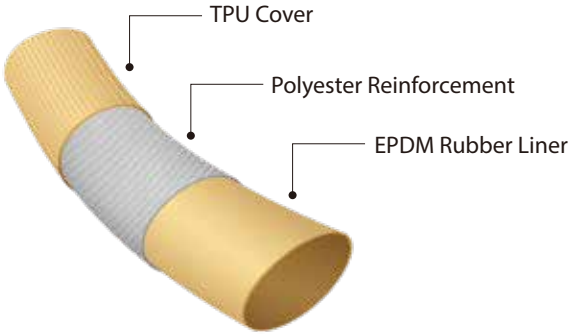
TPU as Cover & EPDM Rubber as Liner

★ Features

- A lighter and softer choice for dewatering, rough duty wash down and fluid delivery
- TPU cover provides extreme abrasion resistance to extreme ground conditions
- EPDM liner provides extreme resistance to most chemicals
- Outstanding diameter stability and low elongation
- Temperature range from -49°F to 175°F (-45°C to 80 °C)
- Standard length 50', 100', 200', up to 660'
- Available with customized color, marking, and couplings



📦 Construction



🛡️ Standard

- 5ELEM enterprise standard
- Within ISO-9001 quality management system

📊 Technical Data

Nominal Size*		Working Pressure*		Min. Burst Pressure*		Average Weight		Wall thickness	
inch	mm	psi	bar	psi	bar	Lbs./ft.	Kg/m	inch	mm
1-1/2"	38	300	21	900	63	0.188	0.28	0.006	1.90
1-3/4"	45	250	17	750	51	0.222	0.33	0.006	1.90
2"	52	250	17	750	51	0.269	0.40	0.006	1.90
2-1/2"	65	250	17	750	51	0.336	0.50	0.007	2.10
3"	75	250	17	750	51	0.464	0.69	0.008	2.30
4"	102	225	15	675	45	0.672	1.00	0.009	2.80
5"	127	225	15	675	45	0.907	1.35	0.014	4.30
6"	152	150	10	450	30	1.008	1.50	0.009	2.80

* Other diameter or pressure on request

Well riser Hose - WELLMAX

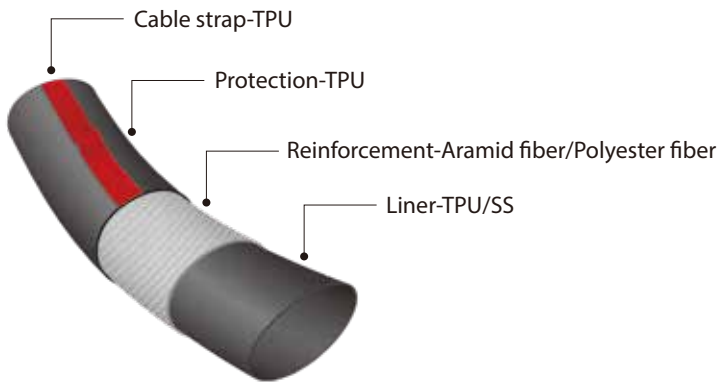
TPU Cover and Liner, TPU Cable Strap

★ Features

- Quick and easy installation and retrieval
- No internal scaling
- Totally corrosion resistance
- Reduced head losses and improved flow rates due to swelling under pressure
- Less labor intensive due to ease of installation
- Reduced transport costs due to light weight and easy handling
- Adapted to the hygienic demand of drinking water in different countries
- All hydrostatically tested
- Temperature range from -4°F to 140°F (-20°C to 60°C)



📦 Construction



🛡️ Standard

- NSF/ANSI 61 approved

📊 Technical Data

Nominal Size*		Max. Operating Pressure	Burst Pressure	Max. Tensile Load	Max. Recommended Tensile Load	Weight	Max. Flow Capacity	Axial Elongation	O.D. Expansion Ratio
inch	mm	bar	bar	ton	ton	kg/m	l/sec		
1.5	40	25	50	2.5	1.3	0.3-0.4	4	≤2%	≤4%
2	50	38	76	3.6	1.8	0.5-0.7	6		
3	75	38	76	8.8	4.4	0.9-1.1	18		
4	100	34	68	11	5.5	1.4-1.6	40		
5	125	34	68	15	7.5	2.0-2.3	55		
6	150	32	64	17	8.5	2.3-2.6	90		
8	200	30	60	24	12	3.3-3.6	148		

Snow-making Hose - STM/STP

Double Jacket, EPDM/TPU Liner

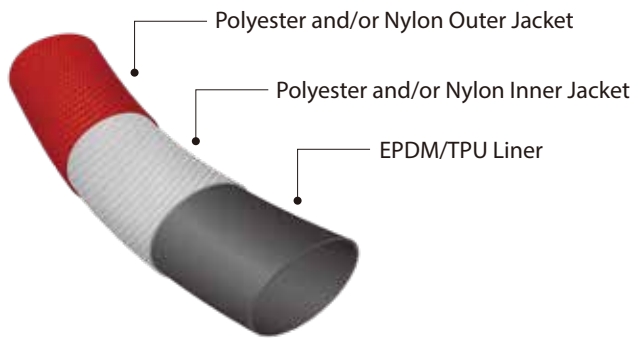


Features

- Tight weave of outer jacket resists to cutting and punctures
- Additional PU Coating for better abrasion resistance
- Cold-resistance up to -76°F (-60°C)
- Covering skiing slopes with man-made snow
- Making commercial issue of ice
- Multicolor options



Construction



Technical Data

Nominal Size		Working Pressure		Burst Pressure	
inch	mm	psi	bar	psi	bar
1-1/2"	38	600	42	1800	126
1-3/4"	45	600	42	1800	126
2"	52	600	42	1800	126
2-1/2"	65	600	42	1800	126



AGRICULTURAL HOSE

36 Irrigation Hose - HYPERFLOW LD

37 Drag Hose - DRAGMAX

38 Slurry Hose - MEGAFLEX

Irrigation Hose - HYPERFLOW LD

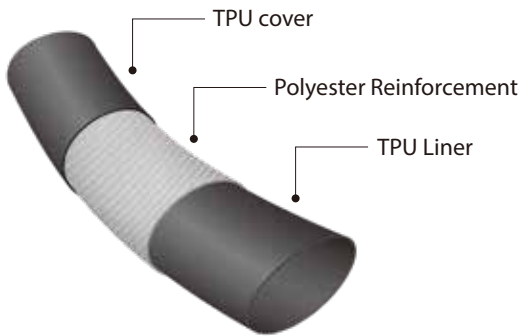
TPU as Cover and TPU as liner

★ Features

- High adhesion strength & top fatigue resistance
- TPU liner provides extreme chemical resistance
- TPU cover provides Extreme abrasion resistance
- Outstanding diameter stability
- Lager volume transfer capability of liquid
- Lighter, softer for easy deployments
- Temperature range from -58°F to 158°F (-50°C to 70°C)



📦 Construction



📊 Technical Data

Nominal Size		Working Pressure		Burst Pressure		Weight		Wall Thickness		Tensile Strength	
inch	mm	psi	bar	psi	bar	Lbs./ft.	Kg/m	inch	mm	Lbs.	Kg
4"	102	250	17	750	51	0.56	0.84	0.094	2.4	32640	16320
5"	127	225	15	675	47	0.74	1.11	0.10	2.5	35400	17700
5-1/2"	140	225	15	675	47	0.83	1.24	0.102	2.6	42570	19350
6"	152	225	15	675	47	0.92	1.37	0.102	2.6	46200	21000
8"	200	150	10	450	30	1.63	2.45	0.122	3.1	42240	19200
10"	254	150	10	450	30	2.90	4.35	0.157	4.0	56540	25700

Maximum recommended working pressure: 50% of the listed values of burst pressure for temporary use. To obtain maximum lifetime of the hose, it is recommended that the working pressure or the working tensile stress do not exceed 1/3 of the listed values.

Drag Hose - DRAGMAX

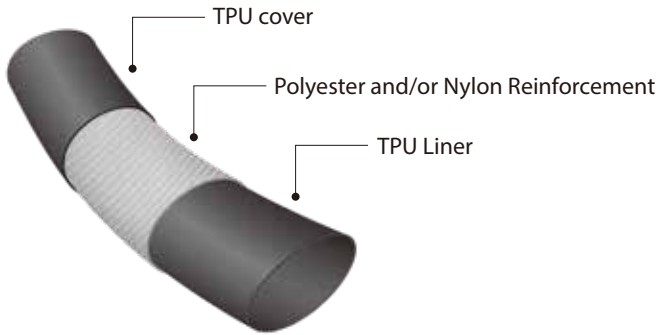
TPU as Cover & Liner

★ Features

- Improved tensile strength under continuously drag
- Outstanding diameter stability
- High adhesion strength
- Extreme abrasion resistance
- Lager volume transfer capability of liquid
- Lighter, softer for easy deployments
- Temperature range from -58°F to 158°F (-50°C to 70°C)



📦 Construction



📊 Technical Data

Nominal Size		Working Pressure		Burst Pressure		Wall Thickness		Tensile Strength	
inch	mm	psi	bar	psi	bar	inch	mm	Lbs.	Kg
4"	102+0/+2.5	175	12	525	36	0.17	4.2	31700	14400
4-1/2"	114+1/+3.5	175	12	525	36	0.17	4.2	38500	17500
5"	127+0/+2.5	150	10	450	30	0.17	4.2	43000	19500
5-1/2"	140+0/+3.0	150	10	450	30	0.17	4.2	50200	22800
6"	152+1/+40	150	10	450	30	0.17	4.2	60300	27400

Maximum recommended working pressure: 50% of the listed values of burst pressure for temporary use. To obtain maximum lifetime of the hose, it is recommended that the working pressure or the working tensile stress do not exceed 1/3 of the listed values.

Slurry Hose - MEGAFLEX

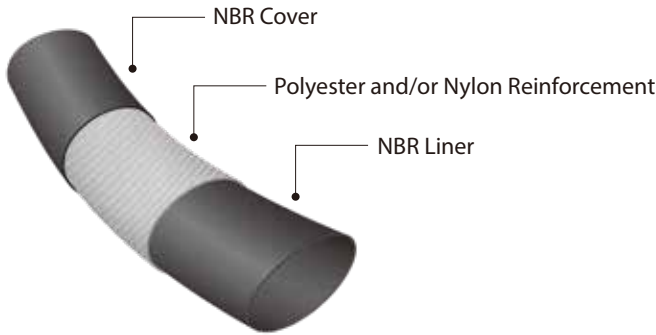
Nitrile rubber as Cover & Liner

★ Features

- Excellent resistance to weather, UV and Ozone
- Superior abrasion resistance, suitable for all ground conditions
- Excellent resistance to agricultural chemicals and fertilizers
- Minimum pressure loss, very low elongation
- Supreme adhesion resistance
- Easy maintenance and handling
- Temperature range from -58°F to 158°F (-40°C to 70°C)



📦 Construction



📊 Technical Data

Nominal Size		Working Pressure	Burst Pressure	Weight	Wall Thickness	Tensile Strength	Bend Radius
inch	mm	bar	bar	g/m	mm	Kg	mm
3/4"	19	21	63	180	2.2	1500	650
1"	25	21	63	200	2.5	1875	900
1-1/2"	38	17	51	370	2.2	2250	700
1-3/4"	45	17	51	390	2.5	3000	900
2"	52	17	51	400	2.6	3250	1100
2-1/2"	65	17	51	655	2.7	3500	1300
3"	75	14	42	660	2.7	4500	1450
3-1/2"	90	10	30	860	2.7	5250	1480
4"	102	10	30	980	2.8	6000	1700
5"	125	10	30	1300	3.0	10500	2100
6"	152	10	30	1650	3.2	12500	2250
8"	200	10	30	2850	3.4	16500	3000



POTABLE WATER HOSE

40 Potable Water Hose - NSF61



Potable Water Hose - NSF61

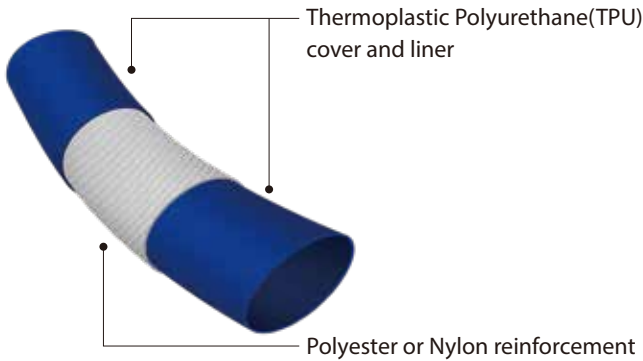
Potable water hose, Polyurethane as cover and liner

★ Features

- The extruded through the weave construction and polyurethane lining increases the abrasion and gives excellent adhesion strength
- Finish product is NSF 61 approved
- Stable diameter and low elongation when the hose is pulled and pressurized
- Easy to be deployed and retrieved at -45°C without any risk of damage to the hose
- Length up to 660'/200m, longer lengths on request



📦 Construction



🛡️ Standard

- NSF 61 approved

📊 Technical Data

Nominal Size		Working Pressure		Test Pressure		Burst Pressure		Certification
inch	mm	psi	bar	psi	bar	psi	bar	
3/4"	19	300	21	600	42	900	63	
1"	25	300	21	600	42	900	63	
1-1/2"	38	200	14	400	28	600	42	
2"	52	200	14	400	28	600	42	
2-1/2"	65	200	14	400	28	600	42	
3"	76	200	14	400	28	600	42	
4"	102	200	14	400	28	600	42	
5"	127	200	14	400	28	600	42	
6"	152	200	14	400	28	600	42	



MARINE HOSE

42 Marine Hose - MED SINFLEX

43 Marine Hose - MED HIGFLEX

44 Marine Hose - DUY RS

Marine Hose - MED SINFLEX

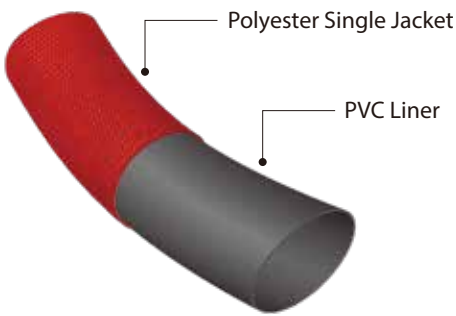
Single Jacket, PVC Liner

★ Features

- Light weight
- Good flexibility
- High elasticity
- The liner process produces an amazingly thin but smooth inner waterway
- Extreme low friction loss
- Temperature range from 14°F to 131°F (-10°C to 55°C)



🏠 Construction



🛡️ Standard

- EN14540:2014 certified
- MED-SOLAS certified

📊 Technical Data

Nominal Size		Working Pressure		Test Pressure		Burst Pressure		Certification
inch	mm	psi	bar	psi	bar	psi	bar	
1-1/2"	38	218	15	348	24	652	45	
1-3/4"	45	218	15	348	24	652	45	
2"	52	218	15	348	24	652	45	
2 1/2"	64	218	15	348	24	652	45	
2 3/4"	70	218	15	348	24	652	45	

Marine Hose - MED HIGFLEX

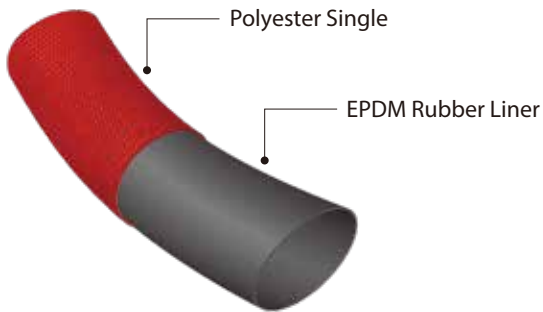
Single jacket, EPDM Rubber liner

★ Features

- Highly resistance to most of chemicals, petrol products, ozone & U.V. exposure, hydrolysis and rot & mildew
- The liner process produces an amazingly thin but smooth inner waterway
- Extreme low friction loss
- Temperature range from -40°F to 158°F (-40°C to 70°C)



📦 Construction



🛡️ Standard

- EN14540:2014 certified
- MED-SOLAS certified

📊 Technical Data

Nominal Size		Working Pressure		Test Pressure		Burst Pressure		Certification
inch	mm	psi	bar	psi	bar	psi	bar	
1-1/2"	38	218	15	348	24	652	45	
1-3/4"	45	218	15	348	24	652	45	
2"	52	218	15	348	24	652	45	
2-1/2"	64	218	15	348	24	652	45	
2-3/4"	70	218	15	348	24	652	45	

FIRE HOSE

INDUSTRIAL HOSE

AGRICULTURAL HOSE

POTABLE WATER HOSE

MARINE HOSE

OIL & GAS HOSE

COUPLINGS

Marine Hose - DUY RS

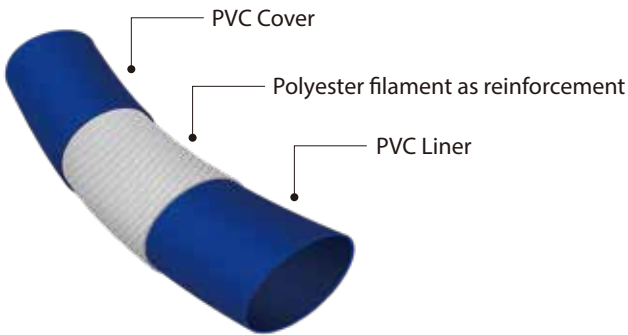
PVC as Cover & Liner

★ Features

- Ribbed PVC cover greatly increases abrasion resistance, provides long service life and the tightly woven reinforcement resists puncture
- Smooth liner keeps friction loss to a minimum and is the best-in-kind
- The strength of DUY is in its reinforcement and economical efficiency



📦 Construction



🛡️ Standard

- Russia Standard

📊 Technical Data

Nominal Size		Working Pressure		Test Pressure		Burst Pressure	
inch	mm	psi	bar	psi	bar	psi	bar
2"	51	225	15	348	24	675	45
2 ½"	66	225	15	348	24	675	45



OIL & GAS HOSE

46 Fracking Hose - Oasis Polyfrac

47 Produced Water Transfer - Oasis Pro-line

49 Anti-Static Polyurethane Layflat Hose

50 Anti-Static Polyurethane Layflat Hose -
Marine Oil

Fracking Hose-Oasis Polyfrac



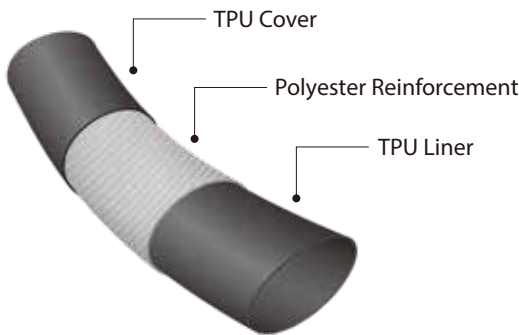
TPU Extruded Through The Weave

★ Features

- Rapid Deployment and Retrieval
- Thru-the-Weave Extruded Cover and Liner Encapsulating an Inner Woven Reinforcing Jacket
- High Tensile Polyester Inner Woven Jacket
- TPU Thermoplastic Outer Cover Providing Excellent Abrasion, UV, and Mildew Resistance
- TPU Thermoplastic Inner Liner Providing Chemical Resistance (consult ABC chart) and Excellent Abrasion Resistance When Pumping Suspended Solids
- Dimensional Stability: Designed For Low Elongation Rate and Return to Nominal Diameter After Extended Periods of Pressurization
- Working Temperature Range: -58°F to 176°F (-50°C to 80°C)



📦 Construction



🌿 Application

- Oil and Gas: Long Distance Fracking Water Transfer
- Industrial Dewatering: Discharge Pumping
- Agricultural: Water Irrigation, Manure Slurry Pumping
- Municipal: Wastewater Bypass

🛡️ Standard features/options

- 8", 10", 12" Diameters, >12" on Request
- Standard Color: Black, Others on Request
- Standard Length: 660', Others on Request
- Custom Marking and Private Labeling on Request
- Hose Ends: Uncoupled, Anodized Aluminum V-Style Groove Couplings, Others on Request

📊 Technical Data

Nominal Size		Working Pressure		Burst Pressure		Weight		Wall Thickness		Tensile Strength	
inch	mm	psi	bar	psi	bar	Lbs./ft.	Kg/m	Inch	mm	Lbs	Kg
8"	204+3.0/-0.0	150	10	450	30	2.02	3.01	0.15	3.8	72327	32876
		200	14	600	42	2.3	3.23	0.17	4.2	84282	38310
10"	254+3.0/-0.0	150	10	450	30	2.17	3.22	0.15	3.8	107699	48954
		200	14	600	42	2.67	3.95	0.17	4.2	115333	52424
12"	305+3.0/-0.0	150	10	450	30	3.04	4.5	0.17	4.2	136147	61885
		200	14	600	42	3.45	5.1	0.19	4.7	147112	66869
14"	358+5.0/-0.0	200	14	600	42	4.37	6.5	0.21	5.4	192157	87344
16"	408+7.0/-0.0	120	8	360	24	5.07	7.5	0.20	5.0	233213	106006



Produced Water Transfer -Oasis Pro-line



TPU/SS Extruded Through The Weave

General Introduction

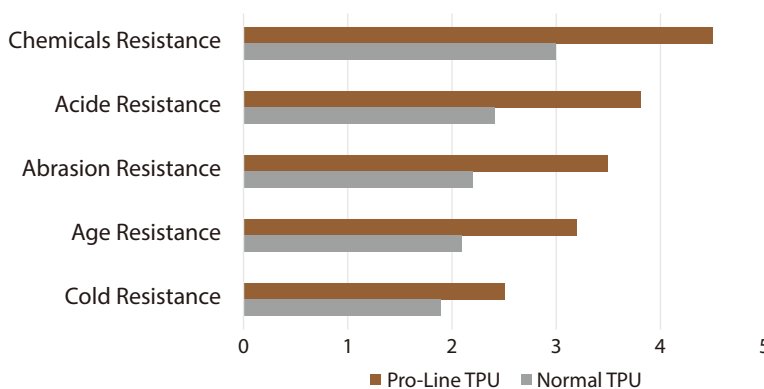
Pro-Line (ETW)TPU/SS hoses is creatively designed by 5ELEM. It is the type of extruded through the weave (ETW) and is one of the excellent performance hose specially be used for produced water in oil field. After been through the test by reinforced 3 times of the corrosive chemicals of the produced water from Permian Basin and Anadarko Basin, it shows excellent performance in chemicals resistance, acid resistance, age resistance, cold resistance and abrasion resistance.

Features and advantages

- Chemicals and acidic resistance
- Durable adhesion
- Extreme temperature resistant
- Abrasion resistant



Pro-line TPU/SS compare with common TPU



FIRE HOSE

INDUSTRIAL HOSE

AGRICULTURAL HOSE

POTABLE WATER HOSE

MARINE HOSE

OIL & GAS HOSE

COUPLINGS



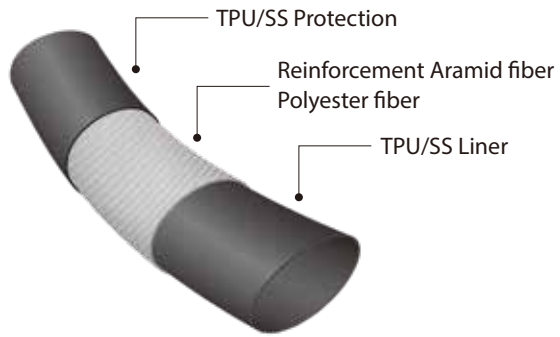
Application

Pro-line TPU/SS hoses are multi-functional:

- Frac Water Transfer
- Chemical Fluid Transfer
- Produced Water Transfer
- Acid Transfer



Construction

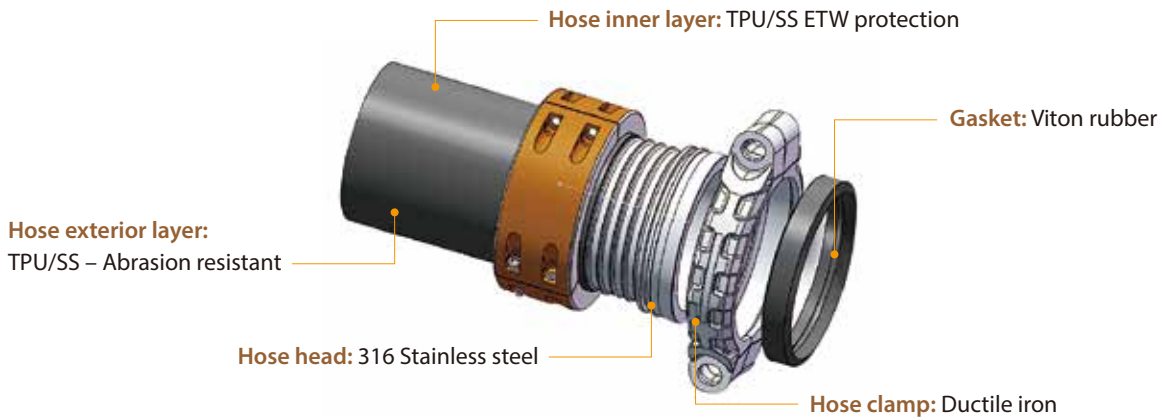


Technical Data

Nominal Size		Working Pressure		Burst Pressure		Weight		Wall Thickness		Standard Length	
inch	mm	psi	bar	psi	bar	Lbs./ft.	kg/m	Inch	mm	Ft	meter
6"	150	200	14	600	42	1.76	2.62	0.15-0.17	3.8-4.3	660	201
8"	200	200	14	600	42	2.50	3.72	0.16-0.18	4.1-4.6	660	201
10"	250	200	14	600	42	2.91	4.33	0.16-0.18	4.1-4.6	660	201
12"	300	150	10	450	30	3.11	4.63	0.17-0.19	4.3-4.8	660	201

All Size of Pro-Line TPU/55 Hose Yield a Working Temperature of -40°F to 194°F

Can accommodate customer request for special size, working pressure, temperature etc. - based on quantities



Head and clamp chemical test

Test Item	Test Situation Concentration	Test Duration	Test Result
Sulphuric Acid	5%,10%,30%	365 Days	30% better than normal product
Sodium Hydroxide	5%,10%		
Nitric Acid	5%,10%		
Sodium Chloride	3%		
Earth Acid	N/A		
Hydrofluoric Acid	N/A		

All test by 5ELEM, using the produced water sample from Permian Basin and Anardako Basin in US

Anti-Static Polyurethane Layflat Hose

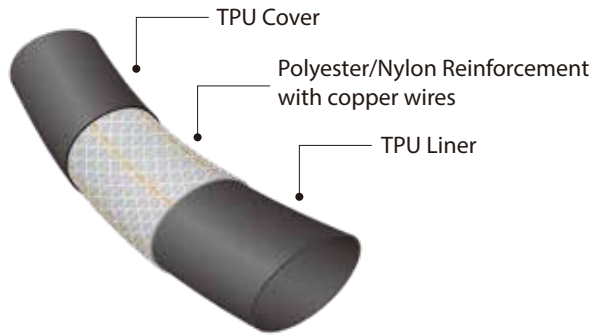
TPU as Cover & Liner, copper wires through the length to conduct static

★ Features

- Long life and maintenance-free service in the harshest environments
- Excellent resistance to abrasion, puncture and delamination
- Minimum pressure loss & low elongation
- With copper wires inside to be anti-static
- Temperature range from -85°F to 158°F (-65°C to 70°C)
- Standard Color: Black, Others on Request
- Standard Length: 660', Others on Request
- Hose Ends: Uncoupled, Anodized Aluminum V-Style Groove Couplings, Others on Request



📦 Construction



🌀 Application

- Refuelling truck, rail and ship
- Ship to Shore oil and gas transfer

📊 Technical Data

Nominal Size		Working Pressure	Burst Pressure	Weight	Wall Thickness	Tensile Strength	Bend Radius
inch	mm	bar	Bar	g/m	mm	Kg	mm
1-1/2"	38	40	120	600	3.2	3800	800
2"	52	28	84	450	3.0	6600	1100
2"	52	40	120	700	3.6	7800	1200
2-1/2"	65	28	84	710	3.0	8000	1300
3"	75	28	84	1260	4.2	10940	1650
3"	75	40	120	1470	4.5	12470	1800
4"	102	28	84	1760	4.3	27311	1800
4"	102	40	120	2100	5.0	28792	1900
5"	125	28	84	2200	5.0	31245	2200
5"	125	40	120	2600	5.0	59000	2400
6"	152	28	84	2800	5.0	41842	2500
6"	152	40	120	3200	5.0	71771	2700
8"	200	28	84	3200	4.8	93714	3500

Anti-Static Polyurethane Layflat Hose-Marine Oil

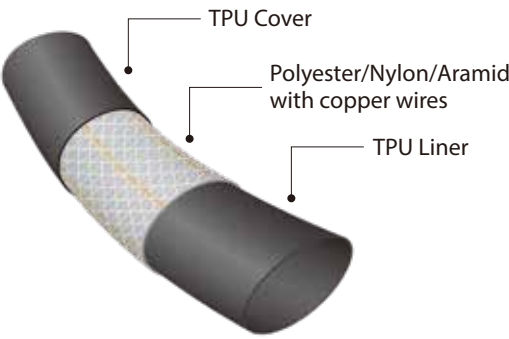
TPU as Cover and Liner, Anti-Static Wires through the Length

★ Features

- Oil and chemistry resistance
- Multi-function and heavy duty
- Minimum pressure loss and low elongation
- Extreme Temperature Range: -65°C to 80°C (-85°F to 176°F)




📦 Construction



🛡️ Standard

- Russian Maritime Register of Shipping Approved

📊 Technical Data

Nominal Size		Working Pressure		Burst Pressure		Weight	Wall Thickness	Certification
inch	mm	psi	bar	psi	bar	kg/m	mm	
3"	76	260	18	780	55	1.6	4.0	
4"	102	260	18	780	55	1.8	4.4	
4"	102	320	22	940	65	1.9	5.0	
4"	102	410	28	1230	85	2.8	5.0	
6"	152	320	22	940	65	1.1	3.9	



COUPLINGS

52 Expansion Ring Threaded Couplings / Storz Couplings / Italian Couplings

53 John Morris Couplings / Brazilian Couplings / Forestry Couplings / Machino Couplings

54 Nakajima Couplings / Light Weight V-style Couplings with quick connection Victaulic Clamps / Forged V-style Couplings with quick connection Victaulic Clamps

Expansion Ring Threaded



★ Features

- Available on Brass or Aluminum
- Assemble to hose with expansion ring
- Thread type: NH, NST, NPT, BSP

Reference Standard:

- NFPA 1963 for internal and external binding suitable for delivery and suction hose
- FM 2131 Approved available

Nominal Size		Material Type
inch		
1-1/2"× 1-11/16"		Aluminum, Brass
1-1/2"× 1-3/4"		
1-1/2"× 1-13/16"		
1-1/2"× 1-15/16"		
2-1/2"× 2-3/4"		
2-1/2"× 2-13/16"		
2-1/2"× 3"		

Storz Couplings



★ Features

- Available on Brass or Aluminum
- Binding to hose with wires or clamps

Reference standard: DIN14302 DIN14303

Cast aluminum, Brass Storz Couplings, good performance to prevent corrosion and abrasion.

4" and 5" self-locking, 3-part clamp design ensures better coupling retention and reduces hang-up when laying hose.

Nominal Size		Material Type
inch	mm	
1"	25.4	Aluminum, Brass
1-1/2"	38.4	
2"	50.8	
3"	76.2	
4"	101.6	
5"	127.0	

Italian Couplings



★ Features

- Available on Brass or Aluminum
- Binding to hose with wires

These threaded couplings are consisting of male and female parts. Available sizes for delivery operation DN25 to DN70, for suction operation DN70 to DN150.

Nominal Size		Material Type
inch	mm	
1-3/4"	45	Brass, Aluminum
2-3/4"	70	

John Morris Couplings



★ Features

- Available on Brass or Aluminum
- Binding to hose with wires

A non-symmetrical quick connection couplings with male and female parts.

These couplings are only suitable for delivery operation. For suction operation round thread couplings are in use.

Nominal Size		Material Type
inch	mm	
1-1/2"	38.1	Aluminum, Brass
2-1/2"	63.5	

Brazilian Couplings



★ Features

- Available on Brass

Reference standard: ABNT NBR 14349.

Nominal Size		Material Type
inch	mm	
1-1/2"	40	Brass
2-1/2"	65	

Forestry Couplings



★ Features

- Available on Brass

Lightweight high strength aluminum quick couplings for our forestry hose. External lugs for fast action, no threads to damage and hard coated for long service life.

Nominal Size		Material Type
inch	mm	
1"	25.4	Aluminum
1-1/2"	38.1	
1-3/4"	44.5	

Machino Couplings



★ Features

- Available on Brass or Aluminum
- Binding to hose with wires

Reference standard: JISB9911/9912/9913 JISB-9911.

Nominal Size		Material Type
inch	mm	
1"	25.4	Aluminum, Brass
1-1/2"	38.4	
2"	50.8	
3"	76.2	

Nakajima Couplings



★ Features

- Available on Brass or Aluminum
- Binding to hose with wires

Reference standard: JISB9911/9912/9913 JISF-7335.

Nominal Size		Material Type
inch	mm	
1"	25.4	Aluminum, Brass
1-1/2"	38.4	

Light Weight V-style Couplings with quick connection Victaulic Clamps



★ Features

- Available at the size of 6", 8", 10", 12"
- Mainly applied to the Fracking, Agricultural and Mining industry
- Quick connection by screwing the V-style Clamps
- Easy to assemble with simple hardware tools
- Re-attachable

V-Style couplings set contains two sets of specially designed clamps, which can ensure the very quick connections of the two hose sections. Also, clamps are the re-attachable and compatible ones with special designs which are developed by experienced hoses fitting engineers.

Nominal Size		Material Type
inch		
6"		Aluminum
8"		
10"		
12"		

Forged V-style Couplings with quick connection Victaulic Clamps



★ Features

- Available at the size of 6", 8", 10", 12"
- Heavy duty with high strength and excellent cracking-resistance
- Mainly applied to the Fracking, Agricultural and also Mining industry
- Quick connection by screwing the V-style Clamps
- Easy to assemble with simple hardware tools
- Re-attachable

V-Style forged couplings set contains two sets of specially designed clamps, which can ensure the very quick connections of the two hose sections. Also, clamps are the re-attachable and compatible ones with special designs which are developed by experienced hoses fitting engineers.

Nominal Size		Material Type
inch		
6"		Aluminum
8"		
10"		
12"		



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