



[Hose & Couplings]

Catalog



Rack Hose-FAS Series

The Rack Hose-FAS is an all polyester single jacket interior protection hose with EPDM liner, for buildings and plants.

Low friction loss for maximum flow. Strong, compact and practical, and will fit on most hose storage device.

Pressure Requirement:

I.D. (Inch)	Service Test Pressure (Psi)	Burst Pressure (Psi)	Certification
1-1/2"	150,250	450,750	
1-3/4"	150,250	450,750	
2"	150,250	450,750	
2-1/2"	150,250	450,750	

I.D. (Inch)	Service Test Pressure (Psi)	Burst Pressure (Psi)	Certification
1-1/2"	150,200	450,600	 <small>Underwriters Laboratories</small>

Construction:

Polyester spun as warp and filament polyester as weft, EPDM liner.



- EPDM Liner
- Polyester Single Jacket
- Warp: Polyester spun
- Weft: Filament polyester

Application: Building protection.

Color: White, other color on request.

Couplings:

Brass NST / NPSH expansion ring threaded coupling, other fittings on request.

Standard Length: 50', 75', 100', folded or rolled to your request.



Rack Hose-FBS Series

The Rack Hose-FBS is an all polyester single jacket interior protection hose with Thermoplastic Polyurethane (TPU) liner for buildings and plants. The hose of light weight and compact, approximately half the weight of standard rubber lined single jacket hose.

Low friction loss for maximum flow. Strong, compact and practical, and will fit on most hose storage device.

Our liner process produces an amazingly thin but smooth inner waterway, tough and ready for action but light in weight.

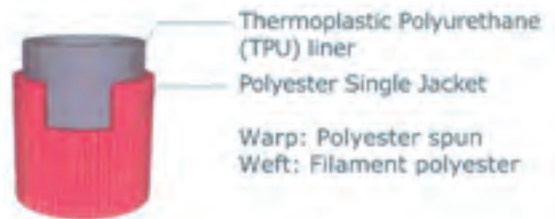
Pressure Requirement:

I.D. (Inch)	Service Test Pressure (Psi)	Burst Pressure (Psi)	Certification
1-1/2"	150,250	450,750	
1-3/4"	150,250	450,750	
2"	150,250	450,750	
2-1/2"	150,250	450,750	

Construction:

Polyester spun as warp and filament polyester as weft.

Tube: Thermoplastic Polyurethane (TPU)



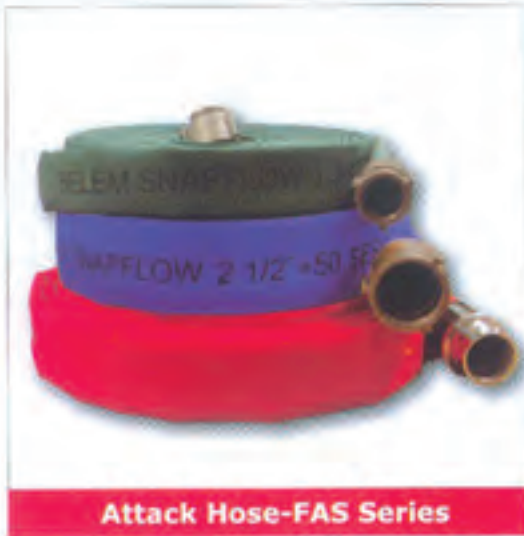
Application: Building protection.

Color: White, other color on request.

Couplings:

Brass NST / NPSH expansion ring threaded coupling, other fittings on request.

Standard Length: 50', 75', 100', folded or rolled to your request.



A single jacket, polyester fire hose lined with a high-tech EPDM tube. Designed for fire brigade or exterior fire protection.

The jacket shall be evenly and firmly woven and free from visible defects, thread knots, lumps and irregularities of twist.

Manufactured in accordance with National Fire Protection Association (NFPA) 1961 standard, latest edition, within our ISO-9001:2008 certified quality assurance system.

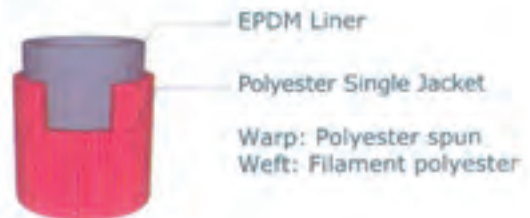
The polyester construction is mildew & rot-proof, outstanding abrasion resistance with our innovative Wisentec™ coating, tough, dependable and light weight.

Pressure Requirement:

I.D. (Inch)	Service Test Pressure (Psi)	Burst Pressure (Psi)	Certification
1-1/2"	250,300	750,900	
1-3/4"	250,300	750,900	
2"	250,300	750,900	
2-1/2"	250,300	750,900	

Construction:

Single jacket, polyester spun as warp, filament polyester as filler, EPDM liner.



Application: Municipal fire brigades, industrial fire brigades.

Color: White, red, yellow, green, blue, other colors on request.

Couplings:

Brass/Aluminum NST/NPSH expansion ring threaded coupling, other type on request.

Standard Length: 50', 75', 100'.



Attack Hose-FAD Series

This double jacket hose is constructed of high tensile strength polyester yarns, lined with a high-tech EPDM tube. Its engineered design guarantees minimum weight with maximum durability and flexibility.

The jacket shall be evenly and firmly woven and free from visible defects, thread knots, lumps and irregularities of twist.

Manufactured in accordance with National Fire Protection Association (NFPA) 1961 standard, latest edition, within our ISO-9001:2008 certified quality assurance system.

The polyester construction is mildew & rot-proof, outstanding abrasion resistance with our innovative Wisentec™ coating, tough, dependable and light weight.

Pressure Requirement:

I.D. (Inch)	Service Test Pressure (Psi)	Burst Pressure (Psi)	Certification
1-1/2"	400	1200	
1-3/4"	400	1200	
2"	400	1200	
2-1/2"	400	1200	
3"	400	1200	

I.D. (Inch)	Service Test Pressure (Psi)	Burst Pressure (Psi)	Certification
1-1/2"	300	900	
2-1/2"	300	900	
3"	300	900	

Construction:

Double jacket, polyester spun as warp and filament polyester as weft/filler, EPDM liner.



Application: Municipal fire brigades, industrial fire brigades.

Color: White, red, yellow, green, blue, other colors on request.

Couplings:

Brass/Aluminum NST/NPSH expansion ring threaded coupling, other type on request.

Standard Length: 50', 75', 100'



Mill Hose-MRD Series

5Elem Mill Hose-MRD is rubber lined and double jacketed product which is thinner than Mill hose-MTS. The jacket is matched to assure a precision fit to meet precise hydrostatic test requirements.

The hoses are of high working pressures, economical, and easy to handle.

The jacket shall be evenly and firmly woven and free from visible defects, thread knots, lumps and irregularities of twist. The threads shall be continuous. The warp will consist of high strength spun polyester yarns. The weft will be high strength, low elongation filament polyester.

Jacket is plain or twill weaving.

Pressure Requirement:

I.D. (Inch)	Service Test Pressure (Psi)	Burst Pressure (Psi)
1-1/2"	300,400	900,1200
1-3/4"	300,400	900,1200
2"	300,400	900,1200
2-1/2"	300,400	900,1200
3"	250,300	750,900
4"	250,300	750,900

Construction:

Polyester double jacket, rubber liner.



Application:

For water discharge service in rental yards, fleet service, municipal wash down, utility dewatering.

Color:

White, other color on request. A color stripe can be added on the jacket, please inquiry before placing order.

Couplings:

Aluminum & Brass NPSH / NST / IPT expansion ring threaded coupling, Aluminum Storz, instantaneous BS couplings or other type of couplings on request.

Standard Length: 25', 50', 75', 100'.



Mill Hose-MRS/FNS Series

5Elem Mill Hose-MRS/FNS is rubber lined and single jacketed product which is thinner than Mill Hose-MTS. MRS mill discharge hoses are economical and easy to handle.

The jacket shall be evenly and firmly woven and free from visible defects, thread knots, lumps and irregularities of twist. The warp will consist of high strength staple (spun) polyester yarns. The weft /filler will be high strength, low elongation filament polyester. Cover is weather ozone, oxidation UV, and most chemicals or petroleum products resistant. Jacket is plain.

Pressure Requirement:

I.D. (Inch)	Service Test Pressure (Psi)	Burst Pressure (Psi)
1"	150,200,250,300	450,600,750,900
1-1/2"	150,200,250,300	450,600,750,900
1-3/4"	150,200,250,300	450,600,750,900
2"	150,200,250,300	450,600,750,900
2-1/2"	150,200,250,300	450,600,750,900
3"	150,200	450,600
4"	125,150	375,450
5"	125,150	375,450
6"	125,150	375,450

Construction:

Polyester single jacket, rubber liner.



Application:

Municipal wash down, utility dewatering, mill discharge shipboard, wash down and maintenance, in-plant fire protection, and general delivery applications in industry.

Color:

white, other color on request. A color stripe can be added on the jacket, please inquiry before placing order.

Couplings:

Aluminum & Brass NPSH / NST / IPT expansion ring threaded coupling, Aluminum Storz, instantaneous BS couplings or other type of couplings on request.

Standard Length: 25', 50', 75', 100'.



5Elem Mill Hose-MTD is rubber lined product with thicker double polyester jacket, the thicker jackets afford a far greater abrasion resistance and the ability to reach higher working pressures.

The jacket shall be evenly and firmly woven and free from visible defects, thread knots, lumps and irregularities of twist. The warp will consist of high strength staple (spun) polyester yarns. The weft/filler will be high strength, low elongation filament polyester.

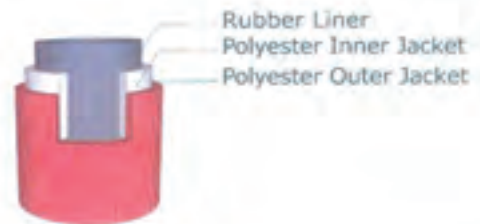
Jacket can be plain or twill weaving.

Pressure Requirement:

I.D. (Inch)	Service Test Pressure (Psi)	Burst Pressure (Psi)
1-1/2"	300,400	900,1200
1-3/4"	300,400	900,1200
2"	300,400	900,1200
2-1/2"	300,400	900,1200
3"	250,300	750,900
4"	250,300	750,900
6"	200,250	600,750

Construction:

Heavy duty polyester double jacket, rubber liner.



Application:

Construction pumps, pump water discharge, wash down service on ship and in factory, plant clean up.

Color:

white, other color on request. A color strip can be added on the jacket, please inquiry before placing order.

Couplings:

Aluminum & Brass NPSH / NST / IPT expansion ring threaded coupling, Pin lug and Cam & Groove fittings, other fittings on request.

Standard Length: 25', 50', 75', 100', 200'



Mill Hose-MTS Series

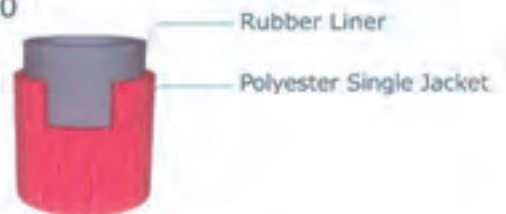
5Elem Mill Hose-MTS is rubber lined product with thicker single polyester jacket, the jacket is matched to assure a precision fit to meet precise hydrostatic test requirements. The jacket shall be evenly and firmly woven and free from visible defects, thread knots, lumps and irregularities of twist. The warp will consist of high strength staple (spun) polyester yarns. The weft /filler will be high strength, low elongation filament polyester.

Pressure Requirement:

I.D. (Inch)	Service Test Pressure (Psi)	Burst Pressure (Psi)
1"	150,200,250,300	450,600,750,900
1-1/2"	150,200,250,300	450,600,750,900
1-3/4"	150,200,250,300	450,600,750,900
2"	150,200,250,300	450,600,750,900
2-1/2"	150,200,250,300	450,600,750,900
3"	150,200	450,600
4"	125,150	375,450
5"	125,150	375,450
6"	125,150	375,450

Construction:

Heavy duty polyester single jacket, rubber liner.



Application:

Water discharge, commonly used in construction for pump discharge and wash down.

Color:

White, other color on request. A color strip can be added on the jacket, please inquiry before placing order.

Couplings:

Aluminum & Brass NPSH / NST / IPT expansion ring threaded coupling, Pin lug and Cam & Groove fittings, other fittings on request.

Standard Length: 25', 50', 75', 100', 200'.



Supply Hose-PFL Series

A double polyester and/or Nylon jacket lined with a EPDM or Thermoplastic Polyurethane (TPU) tube. National Fire Hose Triple Duty is manufactured in accordance with NFPA standard 1961, latest edition within our ISO-9001: 2008 certified quality assurance system.

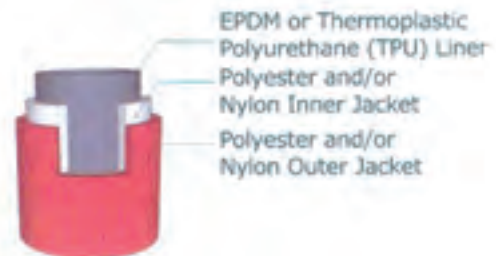
- Reverse twill weave of the inner jacket provides a smooth waterway and superior lining adhesion.
- Specifically engineered for attack, supply and relay operations - a truly universal fire hose.

Pressure Requirement:

I.D. (Inch)	Service Test Pressure (Psi)	Burst Pressure (Psi)
4"	300	900
5"	300	900

Construction:

Double jacket, polyester and/or Nylon jacket, EPDM or Thermoplastic Polyurethane (TPU) liner tube.



Application: Municipal and Rural Large Diameter Water Supply, relay Pumping, crash/fire Rescue, master stream appliances, industrial fire fighting, potable water transfer, frequently used for soft suction in shorter lengths

Color: Red, yellow, orange, tan, other colors on request.

Couplings: Storz or Extruded Aluminum Threaded Couplings.

Standard Length: 50', 75', 100'.



Supply Hose-RFL Series

100% circular woven synthetic twill weave, ribbed nitrile cover, ultra smooth nitrile rubber liner. Permanently bonded to all warp and filler.

- Tough and Durable-Special rubber compound provides a tough cover that resists heat and abrasion, snags, hot embers, cuts, most petrochemicals and cold environments.
- Ease of Handling – Unique construction provides a very flexible, kink resistant, maneuverable hose which packs tightly in hose bed.
- Low Friction loss – The ultra-smooth lining and resilient expansion qualities provide maximum flow with minimum friction loss.
- Meets and exceeds all NFPA Standards 1961, current edition.

Pressure Requirement:

I.D. (Inch)	Service Test Pressure (Psi)	Burst Pressure (Psi)
4"	250	750
5"	225	675

Construction:

Nitrile rubber cover and liner. Polyester and/or Nylon reinforcement.



Application: Municipal and rural large diameter water supply, relay pumping, crash/fire rescue, master stream appliances, industrial construction, military uses, water and ice rescue.

Color: Red, yellow, orange, tan, other colors on request.

Couplings: Storz or Threaded Couplings.

Standard Length:

50', 75', 100', 150', 200', please inquire for other length before placing order.



Forestry Fire Hose-HBX Series

Forestry Fire Hose-HBX Series is a small diameter lightweight, compact single jacket. The optional Wisentec™ treatment greatly increases abrasion, heat, and flame resistance while virtually eliminating water pick-up. With 50' of forestry fire hose weighing only 1.25 lbs and a coil diameter of around 9 inches, this hose can be taken almost anywhere.

A stripe of a contrasting color running the full length of the hose can be woven into the jacket.

Pressure Requirement:

I.D. (Inch)	Service Test Pressure (Psi)	Burst Pressure (Psi)
5/8"	300	900
3/4"	300	900

Construction:

High tenacity filament polyester as warp and weft, thermoplastic polyurethane (TPU) liner.



Thermoplastic Polyurethane (TPU) Liner

Polyester Jacket

Warp: Filament polyester

Weft: Filament polyester

Application: Light duty fire hose, supply sprinklers, remote fireline protection.

Color: White, yellow, other colors on request.

Couplings: Brass GHT threaded ends, other fittings on request.

Standard Length: 50', 75', 100'.



Forestry Fire Hose-HBS Series

Forestry fire hose is a lightweight single jacket 100% spun polyester hose lined with thermoplastic polyurethane (TPU) elastomer. The optional Wisentec™ treatment greatly increases abrasion, heat, and flame resistance while virtually eliminating water pick-up. HBS forestry fire hose meets the new "Type II" specification, is protected from mildew and no drying is required.

Its PU tube provides much better resistance to punctures, mildew, petroleum, solvents, and aging as compared to conventional rubber fire hose, light and compact.

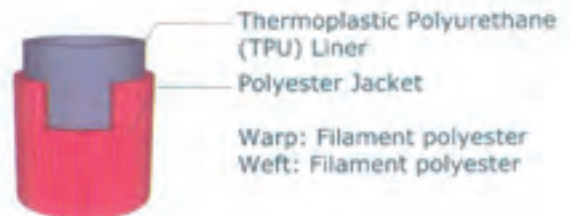
A stripe of a contrasting color running the full length of the hose can be woven into the jacket.

Pressure Requirement:

I.D. (Inch)	Service Test Pressure (Psi)	Burst Pressure (Psi)
1"	300	900
1-1/2"	300	900

Construction:

High tenacity filament polyester as warp and weft/filler, thermoplastic polyurethane (TPU) liner.



Application: Forestry fire fighting.

Color: White, yellow, other colors on request.

Couplings:

Aluminum NST/NPSH expansion ring threaded coupling or Quarter Turn, other fittings on request

Standard Length: 50', 75', 100'.



Nitrile Rubber Covered Hose-DUZ Series

This type of durable hose is Nitrile rubber covered hose, and along with high tensile strength polyester reinforcement for maximum durability and flexibility.

- Ribbed Nitrile rubber cover greatly increases abrasion resistance and provides long service life.
- Smooth Nitrile rubber liner minimum pressure drop.
- Hose remains flexible to temperatures as low as -4°F (-20°C) and is resistant to ozone, oxidation, and most chemicals or petroleum products.
- Polyester and/or Nylon reinforcement, tightly woven, twill weave resists puncture.

Pressure Requirement:

(Inch)	I.D. (mm)	Service Test Pressure (Psi)	Burst Pressure (Psi)
1"	25.4	200,250,300	600,750,900
1-1/2"	38.1	200,250,300	600,750,900
2"	50.8	200,250,300	600,750,900
2-1/2"	63.5	200,250,300	600,750,900
3"	76.2	200,250,300	600,750,900
4"	101.6	200	600
5"	127.0	200	600
6"	152.4	150	450

Construction:

Nitrile rubber cover and liner. Polyester and/or Nylon reinforcement.



Application:

Municipal fire fighting, industrial fire fighting, In-Plant fire protection, rough duty wash down, installations in high oil-resistance conditions, supply hose.

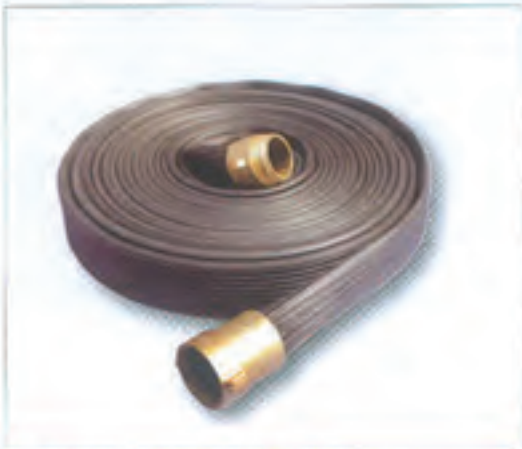
Color: Yellow, red, other colors on request.

Couplings: On request.

Standard Length:

50', 75', 100', 150', 200', please inquire for other length before placing order.

Temperature Range: -4°F to 175°F (-20°C to 80°C), based on water.



PVC/Nitrile Blended Industrial Hose-DUQ Series

This type of hose is similar as Nitrile rubber covered hose, and has following features:

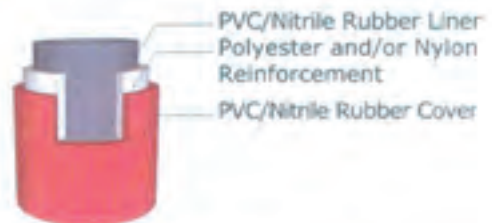
- Small coil diameter, light weight
- Resistance to weather and ozone
- Low elongation
- More economical

Pressure Requirement:

(Inch)	I.D. (mm)	Service Test Pressure (Psi)	Burst Pressure (Psi)
1"	25.4	200,230,250,300,400	600,700,750,900,1200
1-1/2"	38.1	200,230,250,300	600,700,750,900
2"	50.8	200,230,250,300	600,700,750,900
2-1/2"	63.5	200,230,250,300	600,700,750,900
3"	76.2	150,200,230,250	600,700,750
4"	101.6	150,200	450,600
5"	127.0	150,200	450,600
6"	152.4	100,150	300,450
8"	203.2	75,100	225,300

Construction:

PVC/Nitrile blends cover and liner, Polyester and/or Nylon reinforcement.



Application:

Industry and agriculture, waste water discharge, supply line for drip irrigation, commercial and civil engineering, protection hose for cables and hydraulic base.

Color: Black, yellow, red, other colors on request.

Couplings: On request.

Standard Length:

50', 75', 100', 150', 200', please inquire for other length before placing order.

Temperature Range: 14°F to 140°F (-10°C to 60°C), based on water.



PVC Covered Hose-DUY Series

DUY series is PVC covered hose and along with high tensile strength polyester reinforcement for good durability and flexibility. DUY series is manufactured to withstand far greater pressure than the medium and low pressure hoses.

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.

The DUY hose and its assemblies under this specification shall be constructed with superior quality materials, within our ISO-9001:2008 certified quality assurance system.

Pressure Requirement:

(Inch)	I.D. (mm)	Service Test Pressure (Psi)	Burst Pressure (Psi)
1"	25.4	250, 300	750, 900
1-1/4"	31.8	250,300	750,900
1-1/2"	38.1	250,300	750,900
1-3/4"	44.5	250,300	750,900
2"	50.8	250,300	750,900
2-1/2"	63.5	250,300	750,900
2-3/4"	69.9	250,300	750,900
3"	76.2	250	750
3-1/2"	88.9	150	450
4"	101.6	150	450
4-1/4"	108.0	150	450
5"	127.0	150	450
6"	152.4	100, 150	300,450
8"	203.2	100	300

Construction:

High tenacity Filament polyester, PVC cover and liner.



Application: Water discharge, washing down, agricultural, irrigation hose, supply hose.

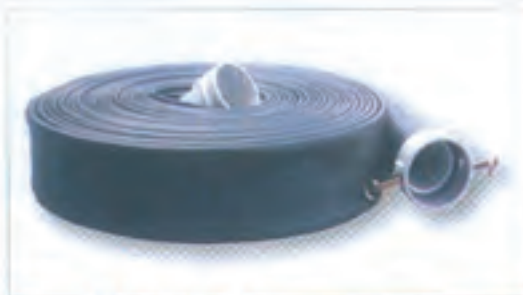
Color: Yellow, red, other color on request.

Standard Length: 20m, 25m, 30m, 40m.

Coupling:

Storz couplings & BS instantaneous coupling, Italian coupling, other couplings on request.

Temperature Range: -4°F to 140°F (-20°C to 60°C), based on water.



PU Covered Delivery Hose-DUX Series

the hose is manufactured within ISO 9001:2008 certified quality assurance system, polyester and/or Nylon reinforcement, special weaving design for continuous high pressure performance, high breaking strength and low elongation under pressure.

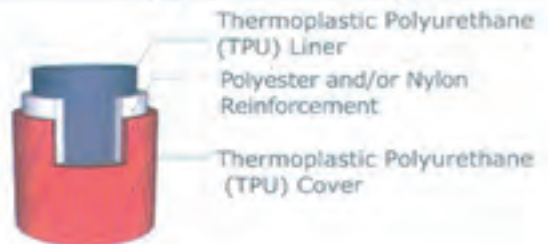
Excellent performance in abrasion resistance, extremely hardwearing and durable for long service life, "Through-the weave" extruding process permanently avoids delaminating, resistance to oil, fuel and a wide range of chemicals, resistance to weathering and ozone, excellent cold flexibility, high tensile strength, lightweight and easy to handle compared to material handling hose in rubber.

Pressure Requirement:

I.D. (Inch)	I.D. (mm)	Wall Thickness (Inch)	Working Pressure (Psi)	Burst Pressure (Psi)	Breaking Strength (Psi)
2-1/2"	63.5	0.11	250	750	6500
3"	76.2	0.11	250	750	8000
		0.14	250	750	8100
3-1/2"	88.9	0.11	200	600	9000
		0.14	200	600	12600
4"	101.6	0.12	200	600	10600
		0.14	200	600	14000
4-1/2"	114.3	0.12	200	600	16500
		0.14	150	450	12600
5"	127.0	0.14	200	600	18000
		0.12	150	450	15500
6"	152.4	0.12	150	450	23000
		0.14	150	450	23000

Construction:

Polyester and/or Nylon reinforcement, thermoplastic polyurethane (TPU) cover and liner.



Application:

Agriculture and mining, irrigation and sludge disposal, transport of abrasive materials, flexible pipeline even in extreme terrain, construction sites, waste water industry, for heavy duty service under toughest conditions, potable water supply.

Color: Black, blue, green, red, other colors on request.

Couplings: On request.

Standard Length: 50m, 100m, 200m, other lengths on request.

Temperature Range: -58°F to 167°F (-50°C to 75°C), based on water.



A non-symmetrical quick connection coupling with a male and female part. These couplings are only suitable for delivery operation. For suction operation round thread couplings are in use.

Pressure Requirement:

Size (Inch / mm)	Material Type
1-1/2" 38.1	Aluminum, Brass
2-1/2" 63.5	Aluminum, Brass



Brazilian coupling meets the standards of ABNT NBR 14349.

Pressure Requirement:

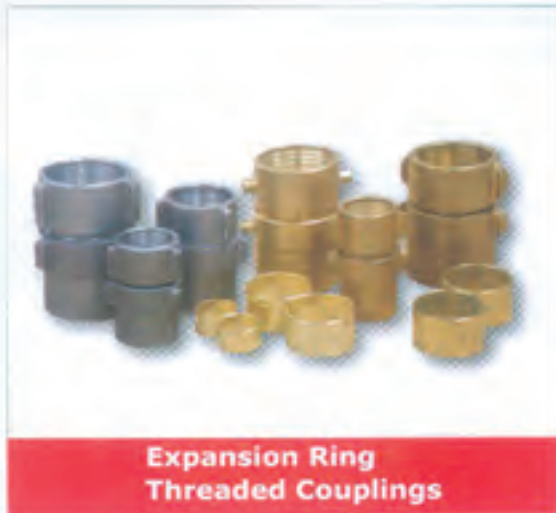
Size (Inch / mm)	Material Type	Certification
1-3/4" 44.5	Brass	ABNT NBR 14349
2-3/4" 69.9	Brass	ABNT NBR 14349



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

Pressure Requirement:

Size (Inch / mm)	Material Type
1-1/2" 38.1	Aluminum
1-3/4" 44.5	Aluminum



**Expansion Ring
Threaded Couplings**

Couplings according to NFPA 1963 for internal and external binding suitable for delivery and suction hose.

Pressure Requirement:

Bowl Size (Inch)	Material Type
1-1/2" X 1-11/16"	Aluminum,Brass
1-1/2" X 1-3/4"	Aluminum,Brass
1-1/2" X 1-13/16"	Aluminum,Brass
1-1/2" X 1-15/16"	Aluminum,Brass
2-1/2" X 2-3/4"	Aluminum,Brass
2-1/2" X 2-13/16"	Aluminum,Brass
2-1/2" X 3"	Aluminum,Brass



Storz Couplings

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

Also 4"and 5" self-locking,3-part clamp design ensure better coupling retention and reduces hang-up when laying hose in the field.

Pressure Requirement:

Size (Inch / mm)	Material Type
1" 25.4	Aluminum,Brass
1-1/2" 38.1	Aluminum,Brass
2" 50.8	Aluminum,Brass
3" 76.2	Aluminum,Brass
4" 101.6	Aluminum
5" 127.0	Aluminum



Italian Couplings

These threaded couplings are consisting of male and female parts. Available sizes for delivery operation ND25 to ND70,for suction operation ND70 to ND150.

Pressure Requirement:

Size (Inch / mm)	Type
1-3/4" 44.5	Light, weight' Brass & Aluminum
2-3/4" 69.9	Light, weight' Brass & Aluminum