



Heavy Duty Polypropylene Composite Hose

Type 4091SGP and 4094SSP

Applications: This type is designed for use as a tank truck, railcar, and in plant transfer hose suitable for use with a wide variety of chemicals with maximum resistant T316 Stainless Steel inner wire is required.

Construction:

- Color/Cover: 4091SGP Royal Blue white stripe/PVC coated Nylon, Abrasion, Ozone resistant
4094SSP Royal Blue yellow stripe/PVC coated Nylon, Abrasion, Ozone resistant
- Inner Wire: T316 Stainless Steel Wire
- Inner lining: High Grade Polypropylene
- Carcass: Polypropylene fabrics, films and seamless tubes
- Outer Wire: 4091SGP Galvanized Steel
4094SSP T304 or T316 Stainless Steel
- Extra: Special Color Coding and branding

Physical properties:

- Temperature Range: -22°F to +212°F (-30°C to +100°C)
- Maximum elongation: ≤10% on test pressure
- Vacuum range: 26 inHg (660 mmHg), 0.9 bar
- Electrical properties: Electrically Conductive
≤2.5 ohm/m for sizes less than 2"
≤1.0 ohm/m for size 2" and above

Standards: EN13765:2010, IMO, IBC, BS5842, NAHAD-600:2005

End Fittings: Specially designed end fittings have been developed for use with Willcox Composite hoses that have a unique leak-proof sealing face and specially machined helical spiral shank which engages into the corresponding internal helix wire when secured into the hose by either crimping or swaging the external ferrules. See page 28 for more information about end connections.

TECHNICAL DATA: TYPE 4091SGP AND 4094SSP									
Inside Diameter		Working Pressure		Min. Bend Radius		Approx Weight		Maximum Length	
Inches	mm	PSI	Bar	Inches	mm	lb/ft	kg/m	Feet	Meters
1	25	250	17.5	5.0	125	0.9	1.3	100	30
1½	40	250	17.5	6.0	150	1.0	1.6	100	30
2	50	250	17.5	7.0	175	1.4	2.1	100	30
3	80	250	17.5	9.0	225	2.1	3.1	100	30
4	100	250	17.5	11.0	275	2.5	3.8	100	30

Pressure based on safety factor 4:1

Dimensions and weight are approximate and are subject to change

For additional technical data such as pressure drop, max. flow rates and tensile strength, please consult United Flexible engineering

Increased operating temperatures will reduce working pressure of the assemblies

Fitting pressure rating may limit working pressure of the assembly

Rated working pressure is @ 70°F (21°C)