



Cryoflex® 50 Hose
Type SSN940

Applications:

This type is designed for use the safe transfer of fully refrigerated conveyants in road and railcar, in plant and ship-to-shore or ship-to-ship transfer applications including the following Acetaldehyde, Ammonia (anhydrous), Butadiene, Butane/Propane, Butylene, Ethylamine, Ethylamine, Polypropylene, Refrigerant Gasses, Vinyl Chloride.

Also suitable for Liquid Ethane to -128°F (-89°C), Liquid Ethylene to -157°F (-105°C) and Liquid CO₂.

Construction:

Color/Cover: White green stripe/Nylon (rope lagging for extra protection and insulation available)
 Inner Wire: T316 Stainless Steel
 Inner lining: Nylon
 Carcass: Polyamide, Nylon fabrics and Polyamide films
 Outer Wire: T316 Stainless Steel
 Logo: Cryoflex® 50

Physical properties:

Temperature Range: -128°F to +150°F (-88°C to +66°C)
 Maximum elongation: ≤10% on test pressure
 Vacuum range: 26 inHg (660 mmHg), 0.9 bar
 Electrical properties: Electrically Conductive
 ≤1.0 ohm/m for size 2" and above

Standards:

EN13766:2010, USCG 33CFR 127.1102

Approvals:

Bureau Veritas Type Approval for IGC & IBV Code and relevant requirements of the Society for handling Propane, Propylene, Butylene, Butane, Anhydrous Ammonia and Vinyl Chloride for 4" to 8" diameter hose.

End Fittings:

Specially designed end fittings have been developed for use with United Flexible 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 22 for more information about end connections.

TECHNICAL DATA: TYPE SSN940									
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	350	25	6.0	150	0.6	0.9	100	30
1½	40	350	25	7.0	175	1.1	1.6	100	30
2	50	350	25	8.0	200	1.6	2.4	100	30
3	80	350	25	10.0	250	3.0	4.5	100	30
4	100	350	25	20.0	500	5.0	7.5	100	30
6	150	350	25	26.0	650	9.3	14.0	65	20
8	200	350	25	36.0	900	12.5	18.8	65	20
10	250	200	14	59	1500	15.1	22.3	50	15

Pressure based on safety factor 5:1

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 or reduce the rated working pressure of the assembly

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