

TIFT-Compoflex Composite Hose Products

CRYOGENIC HOSES

Code 940: CRYOFLEX 50 SS

CRYOFLEX 50 cryogenic hose is specially designed for the safe transfer of fully refrigerated liquefied petroleum gasses and related conveyants.

Typical applications: Liquefied petroleum gasses and related conveyants to $-128^{\circ}\text{F}(-88^{\circ}\text{C})$.

Certification: Bore sizes 4"(100mm), 6"(150mm) and 8"(200mm) are certified by UK Department of Transport Marine Directorate as complying with IMO Gas Carrier Code.

Conveyants handled: Compatible with a wide range of low temperature fluids including the following per IMO Gas Carrier Code, Chapter XIX: Acetaldehyde, Ammonia (anhydrous), Butadiene, Butane, Butane/Propane mixture, Butylene, Diethylamine, Ethylamine, Ethyl Chloride, Methyl Acetylene/Propadiene, Methyl Bromide, Propane, Polypropylene, Propadiene, Refrigerant Gasses, Vinyl Chloride.

Also suitable for Liquid Ethane to $-128^{\circ}\text{F}(-88^{\circ}\text{C})$, and liquid CO_2 .

Features:

- Maximum compatibility – handles a wide range of low temperature and cryogenic conveyants
- Meet IMO Gas Carrier Code depending on construction (IMO type approval for working temperatures to $-58^{\circ}\text{F}(-50^{\circ}\text{C})$ and pressures to 150 psi (10.5 bar)
- Reliability – tested to industry standard $1\frac{1}{2}$ times rated working pressures
- Durability – 316 Stainless Steel inner and outer wires for maximum chemical and wear resistance
- Fatigue resistant – developed in association with leading oil and gas companies for maximum durability, safety and performance
- Double end-to-end electrical continuity – prevents static electricity build-up and internal arcing

Inner Wire

- 316 Stainless Steel

Outer Wire

- 316 Stainless Steel

Carcass

- Multiple layers of Polyamide fabrics and films

Cover

- Nylon cover. Rope lagging for extra protection and insulation available.

Temperature Range

- to $-128^{\circ}\text{F}(-88^{\circ}\text{C})$ (refer to Chemical Compatibility Chart)

Color

- White with Green stripe

Couplings

- Specifically engineered, factory-fitted end connections to customer specification

Code 940 – CRYOFLEX 50:

ID in(mm)	MAX WP* psi(bar)	MIN Bend Radius in(mm)	WEIGHT lb/ft (kg/m)	END FITTING lb(kg)	MAX LEN ft(m)
1 (25)	350 (25)	6 (150)	0.6 (0.9)	–	60 (18)
1½ (38)	350 (25)	7 (175)	1.1 (1.6)	–	60 (18)
2 (50)	350 (25)	8 (200)	1.6 (2.4)	–	60 (18)
3 (75)	350 (25)	10 (250)	3.0 (4.5)	–	60 (18)
4 (100)	300 (21)	20 (500)	5.0 (7.5)	26 (11.8)**	50 (15)
6 (150)	300 (21)	26 (650)	9.3 (14.0)	51 (23.1)**	45 (14)
8 (200)	215 (15)	36 (900)	12.5 (18.8)	71 (32.2)**	40 (12)

* 5:1 safety factor

** End Fitting weights quoted are for ASA 150 welded neck flanges.