tyco
Flow Control

Flexible Piping Systems

The point of transfer is the most vulnerable link in the chain of production, distribution and use of bulk chemicals.
Tyco produce an extensive range of composite hoses, chemically compatible and mechanically engineered to handle hazardous chemicals, safely and easily, in all kinds or transfer applications.

Features

- Chemifex 951 HD the original standard product with a working pressure of between 10.40 and 14 bar and bore diameters between 25mm and 100mm, is suitable for road, rail tanker and inplant applications.
  For standard duties, Chemiflex 951 offers superior flexibility for ease of use.
- Heavy duty Chemiflex 969/998 and Marine 1000 hoses are available in sizes up to 250mm diameter, offering higher working pressures and suitability for very arduous operating conditions including ship-to-shore, dockside and general shipboard use.
- The Chemiflex range incorporates as standard, a polypropylene covered inner wire and galvanised steel outer wire. Stainless steel can be substituted where appropriate.
- The full TFC-FPS range includes a number of specifically engineered hoses incorporating other thermoplastic and fluorocarbon materials.
- These hoses are suitable for particularly hazardous working conditions or difficult to handle conveyants.

FLEXONICS

A.B.N. 83 000 922 690

Composite Hoses - Chemicals

Product Specifications

Type	951/969 Standard Duty	951HD/969HD Heavy Duty	998 Extra Heavy Duty	969 Extra Heavy Duty
Colour/Code	Grey/Red Stripe Black/Orange Stripe	Grey/Red Stripe Black/Orange Stripe	Grey	Green
Temperatures	-20°to +80°C	-20°to +80°C	-20°to +80°C	-20°to +80°C

Note:
Temperatures are subject to pressure derating factors.
Higher temperatures are permitted for intermittent use subject to confirmation from TFC-FPS Technical Department.

Construction				
Inner Wire	951 Anti Static Polypropylene Covered Steel 969 Stainless Steel	951HD Anti Static Polypropylene Covered Steel 969HD Stainless Steel	Anti Static Polypropylene Covered Steel	Stainless Steel
Wall Materials	Polymeric fabrics and films selected according to resistance and strength.			
Outer Wire	Galvanised **Carbon Steel**	Galvanised **Carbon Steel**	Galvanised **Carbon Steel**	Galvanised **Carbon Steel**

Nominal Internal Diameter mm	Maximum Working Pressure Bar	Minimum Bend Radius mm	Weight kg/m	Maximum Manufacturing Length (M)
CHEMIFLEX 951/969 Standard Duty				
25	7	100	0.9	9.14
32	7	100	1.0	9.14
38	7	125	1.2	9.14
50	7	125	1.6	18.3
65	7	150	2.1	18.3
75	7	175	2.5	18.3
CHEMIFLEX 951HD/969 Heavy Duty	14	100	0.9	9.14
32	14	100	1.0	9.14
38	14	127	1.2	9.14
50	10.40	178	1.8	18.3
65	10.40	178	2.5	18.3
75	10.40	203	3.0	18.3
100	10.40	304	4.3	18.3
CHEMIFLEX 969EHD/998 Extra Heavy Duty				
75	14	280	3.4	15
100	14	400	6.5	15
150	14	500	11.0	15
200	14	740	15.0	15
250	10.5	920	21.0	12

Construction

TFC-FPS chemical transfer hoses are constructed from multi-layers of thermoplastic film which form a sealing and permeation barrier, supported by fabric layers for mechanical strength. The hose layers are held and tensioned by internal and external steel wire helices. TFC-FPS Chemiflex hoses comply with various national and international standards including AS2117 - 1991, BS5842 (1980) AND US. Coastguard regulations and can be marked accordingly. Chemiflex Marine 1000 hoses, type approved to IMO Codes BCH and IBC requirements are available on request.
The standard production length is 18.3m (with the exception of 969/998). Chemiflex hoses are supplied with factory-fitted end connections to the customer's requirements. An extensive range of couplings either externally swaged or wire-whipped available.