

Technical Datasheet

Venaflon® HF

Ref: DO 03.10 FT 262. Rev. 03

Date: 17/12/2018



Applications

It is specially recommended for the transport of liquid or semi-liquid fluids in the food, cosmetic, chemical and pharmaceutical industries.

This hose present a wide field of application due to its construction which gives it a balance between strength and lightness. The inner layer for this hose is made of PFA (Perfluoroalkoxy) which has a high compatibility with highly aggressive chemicals.

This hose is able to transport liquid or semi-liquid food-stuffs by impulsion or suction, since its design can resist either pressure or vacuum.

Properties

- Odorless, tasteless and completely non-toxic.
- High flexibility.
- White and smooth appearance of the inner layer of PFA, translucent and smooth appearance of the outer silicone layer.
- Can be equipped with 316L stainless steel fittings on each end with a roughness value of less than 0.8 μm (or 0.5 μm on request).
- Upon request it can be equipped with Clamp fittings with an inner cover of PFA.
- Operational temperature range from -30°C (-22 F) to +150°C (302 F).
- The hose is manufactured in a maximum length of 20m (65.62 ft).
- The vacuum resistance is 0.9 bar (13.05 psi).

Limitations

Respect the bending radius and work pressure established values.

Mind the chemical compatibility of the fluid with the inner PFA.

Regulations

The inner layer of PFA is in compliance of:

- US FDA Standard 21 CFR 177.1550
- USP Class VI <88> in vivo tests
- USP Class VI <87> in vitro tests
- ISO 10993-5, 10 y 11
- Reg 1935/2004/EEC, and Reg 10/2011/EEC

The outer silicone layer is in compliance of:

- US FDA Standard 21 CFR 177.2600
- USP Class VI <88> in vivo tests
- USP Class VI <87> in vitro tests
- ISO 10993-5, 10 y 11
- European Pharmacopoeia 3.1.9

Technical Specifications



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Inner Diameter		Wall Thickness ISO 1307		Working Pressure ISO 1402		Bending Radius ISO 1746	
mm	inch	±0.8mm	±0.03inch	Bar at 20°C	Psi at 68°F	mm	inch
10.0	3/8	6.0	0.24	10	145.04	40	1.58
13.0	1/2	6.0	0.24	10	145.04	45	1.77
16.0	5/8	6.0	0.24	10	145.04	55	2.17
19.0	3/4	6.0	0.24	10	145.04	65	2.56
25.0	1	6.0	0.24	10	145.04	85	3.35
32.0	1 1/4	6.0	0.24	10	145.04	120	4.72
38.0	1 1/2	6.5	0.26	10	145.04	140	5.51
51.0	2	8.0	0.31	10	145.04	180	7.09
63.5	2 1/2	8.0	0.31	5	72.52	320	12.60
76.0	3	8.0	0.31	5	72.52	380	14.96
100.0	4	9.0	0.35	3	43.51	500	19.69

Construction

This reference is manufactured with a white inner layer of PFA (Perfluoroalkoxy), polyester reinforcements and a stainless steel (AISI 304) spring wire encased.

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