

Venaflon® HR

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Applications

Venaflon HR is an excellent solution to withstand dynamic stress during the transfer of high purity fluids. It is suitable for use in filling machines. 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. The perfluorinated inner liner ensures utmost chemical and temperature resistance, an excellent impermeability and absolutely hygienic and contamination-free delivery of fluid.

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 with:

- 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

Properties

- Odorless, tasteless and completely non-toxic.
- High flexibility
- 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).
- Operational temperature range from -40°C to +150°C.
- The hose is manufactured in a maximum length of 20m (65.62 ft).
- The vacuum resistance is 0.9 bar (13.05 psi).

Technical Specifications

- Construction:
 - o Inner layer: PFA, fully fluorinated, mirror-smooth, light colour.
 - o Outer layer: EPDM rubber, blue color, smooth, resistant to abrasion, ozone and weather resistant, cloth finish.
- Reinforcement: high strength plies of synthetic cord, embedded steel helix wire. Two copper wires are embedded.

Inner Diameter		Wall Thickness		Working Pressure ISO 1402/2009		Vacuum		Weight	Bending Radius ISO 1746/1998	
mm	inch	+1/-0.5 mm	+0.04/-0.02 inch	Bar a 20°C	Psi at 68°F	Bar a 20°C	Psi at 68°F	(kg/m)	mm	inch
13.0	1/2	6.0	0.24	10	145.04	-0.9	-13.05	0.55	45	1.77
19.0	3/4	6.0	0.24	10	145.04	-0.9	-13.05	0.72	65	2.55
25.0	1	6.0	0.24	10	145.04	-0.9	-13.05	0.89	85	3.34
32.0	1 1/4	6.5	0.26	10	145.05	-0.9	-13.05	1.16	120	4.72
38.0	1 1/2	6.5	0.26	10	116.03	-0.9	-13.05	1.47	140	5.51
51.0	2	7.25	0.28	10	116.03	-0.9	-13.05	2.08	180	7.08
63.5	2.5	8.0	0.31	10	116.03	-0.9	-13.05	2.80	250	9.84
76	3	8.0	0.31	10	116.03	-0.9	-13.05	3.48	350	13.77