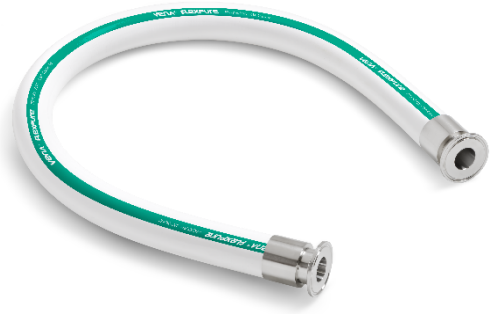
VENA® FLEXPURE

Ref: DO 03.10 FT 349 Rev. 02 Date: 11/01/2023



APPLICATIONS

The inner layer of PTFE makes it perfect for conveying aggressive chemicals by impulsion or suction in food, cosmetic and pharmaceutical applications.

Due the ultra-flexible smoothbore construction, it is ideal for powder, liquid and semi-liquid processing in applications where a high hygienic design and good mechanical performance are required.

PROPERTIES

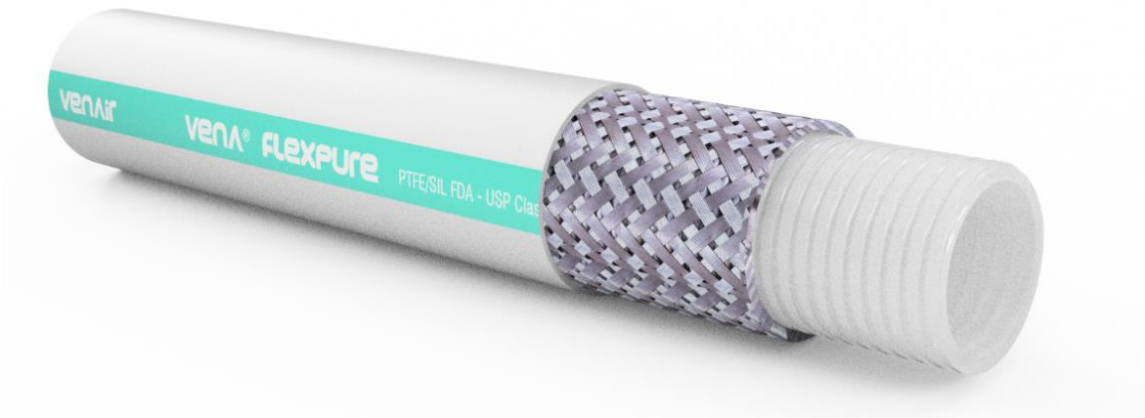
- Odorless, tasteless, and completely non-toxic
- With and smooth outer appearance
- White smoothbore inner layer with special construction to guarantee the maximum flexibility while a high kink resistance.
- It can resist abrasion and hydrocarbon fluids.
- Operational temperature range from -50°C (-58 F) to +200°C (392 F).
- It can be cleaned with steam or SIP (steam) process and CIP process – acidic and some basic under demanding conditions –.

CONSTRUCTION

This reference is manufactured with inner PTFE resins, braided with stainless steel, covered with white rubber silicone.

The standard manufacturing length is 4 meters long (13.12 ft.), but in specific diameters a length of 6 meters (19.69 ft) can be manufactured.

Can be equipped with 316L stainless steel fittings on each end with a roughness value of less than 0.8 µm (smallest roughness is possible on request).



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REGULATIONS

The inner layer of PTFE is in accordance with:

- US FDA Standard 21 CFR 177.2600
- USP Class VI <88>, in vivo test
- European Regulation (EU) 10/2011 and 1935/2004.

The outer white silicone layer is in accordance with:

- US FDA Standard 21 CFR 177.2600

This hose is in accordance with the RoHS "Restriction of the use of Hazardous Substances" Directive 2002/95/EC and its subsequent amendments including the RoHS2 Directive 2011/65/EU and RoHS3 Directive 2015/863.

TECHNICAL SPECIFICATIONS

Inner Diameter		Wall Thickness		Working pressure ISO 1402		Bursting pressure ISO 1402		Bending radius ISO 10619-1	
mm	inch	+1/-0.5 mm	+0.04/ -0.02 inch	Bar at room temperature	Psi at room temperature	Bar at room temperature	Psi at room temperature	mm	inch
10,00	3/8	4,25	0,167	10	145	30	435	53	2,09
12,70	½	4,15	0,163	10	145	30	435	63	2,48
16,00	5/8	4,60	0,181	10	145	30	435	80	3,15
19,50	3/4	4,25	0,167	10	145	30	435	84	3,31
22,00	7/8	5,00	0,197	10	145	30	435	116	4,57
25,50	1	4,75	0,187	10	145	30	435	127	5,00
31,80	1 ¼	5,75	0,226	10	145	30	435	184	7,24
38,10	1 ½	6,00	0,236	10	145	30	435	229	9,02
50,80	2	6,10	0,240	10	145	30	435	800	31,50

LIMITATIONS

Respect the bending radius and work pressure established values.

Mind the chemical compatibility of the fluid with the inner PTFE layer.