Technical Datasheet

Vena® Technosil H-PTV

Ref: DO 03.10 FT 41. Rev. 06
Date: 29/05/2017

Applications

It is especially recommended for the transport of liquid or semi-liquid fluids in the food, cosmetic, chemical and pharmaceutical industries, at high temperatures and under certain pressure.

Limitations

Respect the work pressure established values.

Mind the chemical compatibility of the fluid with the silicone.

This product is not recommended for the transport of abrasive particles

Regulations

Platinum cured silicone produced in compliance with:

- US FDA Standard 21 CFR 177.2600

Silicone rubber used is in accordance with EU Directive 2002/95/ECC for Restriction of the use of hazardous substances (RoHS)

Properties

- Odorless, tasteless and completely non-toxic.
- It can work under vacuum conditions.
- Translucent and smooth inner appearance, orange and smooth outer appearance.
- 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 -60°C (-75 F) to +220°C (428 F).
- The standard manufacturing length is 20 meters (65.12 ft.) and 10 meters (32.81 ft.), although they can be manufactured in any length required.

Technical Specifications

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Inner Diameter		Wall thickness		Outer Diameter		Working Pressure ISO 1402/2009		Bursting Pressure ISO 1402/2009	
mm	*inch*	*+1/ -0.5 mm*	*+0.04/ -0.02 inch*	*mm*	*inch*	*Bar at 20ºC*	*Psi at 68ºF*	*Bar at 20ºC*	*Psi at 68ºF*
5.00	13/64	3.00	1/8	11.00	7/16	18	261.1	62	899.2
6.35	1/4	2.83	7/64	12.00	15/32	17	246.6	56	812.2
7.93	5/16	3.54	9/64	15.00	19/32	15	217.6	46	667.2
9.52	3/8	3.74	9/64	17.00	43/64	14	203.1	42	609.2
12.70	1/2	4.65	3/16	22.00	55/64	11	159.5	34	493.1
15.87	5/8	4.57	3/16	25.00	63/64	10	145.0	30	435.1
19.05	3/4	5.98	15/64	31.00	1 7/32	7	101.5	22	319.1
25.40	1	6.30	1/4	38.00	1 1/2	6	87.0	18	261.1
31.75	1 1/4	7.13	9/32	46.00	1 13/16	5	72.5	15	217.6

Construction

This reference is manufactured by extrusion with a glass fiber yarn braided between the inner translucent layer and the orange outer layer.