



VENA® FLEXIP

This hose is particularly suitable for the transfer of liquid and semi-liquid products in the food, cosmetic, chemical, and pharmaceutical industries.

It offers excellent resistance to fatty and oily foods, glycol-based solutions, and alcoholic beverages. The inner layer is made from an in-house developed fluoroelastomer compound filled with PTFE particles, providing excellent resistance to both acidic and alkaline CIP cleaning solutions. It is particularly suitable for applications requiring tight bending radii. Its construction allows the transfer of high-temperature fluids under both positive pressure and vacuum conditions. Custom configurations, such as elbows and formed bends, can be manufactured to meet specific installation requirements.

PROPERTIES

- Completely non-toxic.
- White and smooth inner and outer appearance.
- Can be equipped with 316L stainless steel fittings on each end with a roughness value of less than 0.8 mm (or 0.5 mm on request).
- Operational temperature ranges from -20°C (-4°F) to +175°C (347°F), it may reach up to +200°C (372°F) during short periods of time.
- The standard manufacturing length is 4m (13.12ft), but for certain standard diameters, 6m (19.69ft) lengths are also available.
- The vacuum resistance is 0.91bar (13.23psi).
- It can be cleaned with steam or SIP process at 130°C and CIP process– (acidic and basic) under demanding conditions.

CONSTRUCTION

This hose is constructed with a hybrid fluoroelastomer/PTFE inner layer, three polyester fabric reinforcement plies, and an embedded stainless-steel wire helix.



CONFIGURATIONS

VENA FLEXIP-X: Conductive inner layer

VENA FLEXIP FULL-X: Full conductive material

LIMITATIONS

Respect the bending radius and work pressure established values.

This product is not recommended for the transport of abrasive particles.

REGULATIONS

Inner layer produced in compliance with:

- US FDA Standard 21 CFR 177.2600.
- USP Class VI <88> in vivo test, 121°C.
- ResAp 2004 (5), according to Reg 1935/2004/EEC, and Reg 10/2011/EEC with simulants A (10% of ethanol) and simulant D2 (olive oil).

Outer layer of platinum cured silicone produced in compliance with:

- US FDA Standard 21 CFR 177.2600.
- German BfR Standard part XV.
- USP Class VI <88> in vivo test, 121°C.
- ISO 10993-4,5, 6&10.
- ResAp 2004 (5), according to Reg 1935/2004/EEC, and Reg 10/2011/ECC.
- European Pharmacopeia 3.1.9
- 3A Sanitary Standard 18-03 Class I (material).

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

TECHNICAL SPECIFICATIONS

Inner Diameter		Wall thickness		Working Pressure		Bursting Pressure		Bending Radius	
				ISO 1402		ISO 1402		ISO 10619-1	
mm	inch	+1/ -0.5 mm	+0.04/ -0.02 inch	bar at 20°C	psi at 68°F	bar at 20°C	psi at 68°F	mm	inch
6	1/4	5.5	0.22	32.7	474.4	98.1	1423.2	29	1.14
8	5/16	5.5	0.22	31.2	452.0	93.5	1356.0	31	1.22
10	3/8	5.5	0.22	29.7	430.3	89.0	1290.8	34	1.34
13	1/2	5.5	0.22	27.5	398.9	82.5	1196.7	39	1.54
16	5/8	5.5	0.22	25.4	369.0	76.3	1107.1	45	1.77
19	3/4	5.5	0.22	23.5	340.6	70.5	1021.8	54	2.13
22	7/8	5.5	0.22	21.6	313.7	64.9	941.0	60	2.36
25	1	5.5	0.22	19.9	288.2	59.6	864.5	68	2.68
32	1¼	5.5	0.22	16.2	234.5	48.5	703.4	94	3.70
38	1½	5.5	0.22	13.4	194.8	40.3	584.4	112	4.41
51	2	5.5	0.22	8.9	129.1	26.7	387.2	144	5.67
63	2½	5.5	0.22	6.4	92.9	19.2	278.8	270	10.63
76	3	5.5	0.24	5.5	80.4	16.6	320	320	12.60

USE PRECAUTIONS

Extreme operating conditions or the use of media with limited compatibility with Flexip may cause deterioration of the hose inner lining. Periodic inspection for signs of cracking, swelling, or other damage is recommended. Replace the hose if any deterioration is detected.

Hose cover: Should be inspected over the entire length for signs of hardening, abrasion, cuts, kinking or crushing.

CHEMICAL COMPATIBILITY

This following chart is purely informative and does not imply any responsibility of Venair. Chemical compatibility will depend on the conditions of the customer, such as the temperature, immersion time, etc. For further information you can contact our specialists.

	Immersion Medium	Compatibility
		FLEXIP
ACIDS	Acetic acid 5%	A
	Hydrochloric acid 32%	A
	Lactic acid	A
	Nitric acid 10%	A
	Phosphoric acid 20%	A
	Sulfuric Acid 20%	A
BASES	Caustic soda	C
	Potassium hydroxide	C
SALTS	Calcium salts	A
	Sodium chloride 10%	A
SOLVENTS	Acetone	D
	Butanol	B
	Heptane	A
	Isopropyl alcohol	B
OTHERS	Ethylene glycol	A
	Glycerine-glycol	A
	Propylene-glycol	A
	Sodium laureth sulfate 70%	A
	Urea 40%	A
CLEANING MEDIUMS	Acid CIP 3%	A
	Alkaline CIP 3%	A
	Chlorinated alkaline CIP 3%	A
	Hot water	A

	Immersion Medium	Compatibility
FOOD PRODUCTS	Beer	A
	Beet sugar liquors	A
	Butter	A
	Chocolate	A
	Citric acid	A
	Coca-cola	A
	Cocoanut oil	A
	Coffee	A
	Corn oil	A
	Lard	A
	Milk	A
	Olive oil	A
	Vinegar	A
	Whisky	A

Where A is excellent, B is good, C is fair and D is not recommended.

CLEANING

Media	Concentration	Temperature
Hot water	-	Up to 95°C
Steam	-	Up to 130°C - max 30 min
Caustic Soda	1%	Up to 80°C
	3%	Up to 25°C
Nitric acid	0.5%	Up to 80°C
	2%	Up to 65°C
Peracetic acid	3%	Up to 80°C

CONTACT



IMPORTANT: The Company reserves the right to change, amend, modify, suspend, continue or terminate all or any part of this Document at any time without notice. It is the user's responsibility to ensure the suitability and safety of the VENAIR products for all intended uses. All the tests must be conducted in accordance with applicable regulatory requirements in order to determine the safety and effectiveness for use of the hoses in any particular application.

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