fluorflow® | CPI

fluortubing



Technical Details

Temperature Limitations: -40°C to +150°C / -40°F to 302°F

Vacuum Limitations: Fluorflow CPI is usable at vacuum up to -0.9 bar (26.5 inHg) at 150°C (302°F).

Tube options: Natural/Transparant or Antistatic

Maximum lengths: 46 meter / 150 feet

EN 16643 | ATEX Conformity | TSE/BSE | GMP 2023/2006 | BS 5173 | Teflon

Comes with a 3.1 Certificate compliant to EN10204

Product Description

Heavy-duty (+2,500,000 rolling U cycles), fibril-free PTFE-lined hose engineered for demanding chemical and industrial applications where safety and durability are critical.

Fluorflow CPI combines a flexible construction with a robust design capable of withstanding harsh operating conditions, including aggressive media, mechanical stress and elevated temperatures. The smooth bore PTFE liner ensures efficient flow and easy cleaning, improving productivity in loading and unloading operations.

Available with natural or anti-static PTFE liners, and optional anti-static, fire-resistant rubber covers for enhanced safety in hazardous environments. Fluorflow CPI is validated against the industry's most demanding standards, including ATEX and is Fireproof to BS 5173 (Section 103.13, 6.2 & 6.3)

Hose assemblies can be supplied with PTFE-lined or non-lined end fittings, supported by a wide range of external protection options to meet specific industrial requirements. Comes with full batch traceability and documented 3.1 certification.

Materials

Tube: Fluorflow CPI is engineered with an externally convoluted, internally smooth PTFE liner manufactured from TEFLON™ fluoropolymer resin. The material offers outstanding resistance to high temperatures, mechanical stress, oxidation and permeation, ensuring long-term performance in demanding pharmaceutical environments. The PTFE liner is manufactured from resin tested in compliance with Regulation (EC) No. 1907/2006 (REACH).
Reinforcement: High Tensile 316 Stainless Steel
Cover: Black EPDM
Marking: Laser etched (in accordance with EN 16643)

Material Compliance: FDA 21 CFR 177.1550 | FDA 21 CFR 178.3297 | EC 1935/2004 | EU 10/2011 | EU 2017/1000 | EU 2019/1021 | 3-A Sanitary Standard USP Class VI

Nominal Hose Bore		Outside diameter of cover		Minimum Bend radius		Maximum Working Pressure		Minimum Burst Pressure		Weight per unit length	
inch	mm	inch	mm	inch	mm	psi	bar	psi	bar	lb/ft	kg/mt
1/4	6.4	0.45	11.6	3/4	19	1160	80	4641	320	0.10	0.16
5/16	8	0.51	13.1	3/4	19	1160	80	4641	320	0.12	0.19
3/8	9.5	0.62	15.8	1	25	1160	80	7200	500	0.14	0.22
1/2	12.7	0.77	19.7	1 1/2	38	1015	70	5800	400	0.25	0.37
5/8	15.9	0.91	23.0	2	51	940	65	5500	380	0.35	0.52
3/4	19	1.10	28.0	2 1/2	63	870	60	4350	300	0.42	0.65
1	25.4	1.43	36.4	4	100	720	50	2900	200	0.57	0.88
1 1/4	31.75	1.70	43.4	5 1/2	140	650	45	2600	180	0.85	1.30
1.5	38	2.04	51.8	6 3/4	171	580	40	2320	160	1.14	1.70
2	50.8	2.64	67.2	8 1/4	210	430	30	1750	120	1.58	2.36
2.5	63.5	3.10	78.7	12	304	290	20	1160	80	2.41	3.49