

Fluoropolymer-coated silicone hoses for biopharmaceutical applications



DYNAMIC® Cleanroom-Platinum

Platinum-vulcanised silicone pressure hose with fluoropolymer insert - for demanding applications

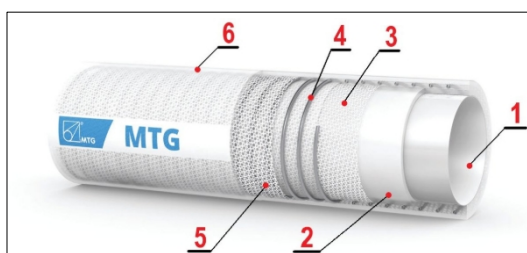
Inner layer: white, smooth PFA fluoropolymer translucent silicone
Reinforcement: synthetic fabric layers, spiral (stainless steel AISI 302)
Outer layer: Translucent silicone
Operating temperature: -30°C to +150°C

A patented hose combining the excellent technical and hygienic properties of PFA fluoropolymer (with properties similar to Teflon), with the flexibility, hygienic and temperature resistant properties of silicone. It is designed to ensure the highest purity when transferring pharmaceutical, cosmetic, food and chemical products under aseptic conditions. The inner layer of the hose is a PFA fluoropolymer tube (1), white, mirror-smooth, odourless and tasteless. It has very good resistance to repeated bending cycles (ASTM D 2176). It complies with USP Class VI, 3A 20-27, FDA, DM 21/03/73, 10/2011/EU, ISO 10993-4, -10 and -11, non-cytotoxic ISO

10993-5, THEIR Q3D. The basic construction of the hose consists of a silicone layer (2), spirally arranged layers of high-strength, bright white synthetic fabric (3 and 5), a steel spiral (4) and an outer silicone layer (6). The outer layer is smooth, low friction, easy to clean with a mild detergent, compliant with USP Class VI, 3-A 18-03 Class I, FDA, BfR, European Pharmacopoeia 3.1.9, ISO 10993-4, -10 and -11, non-cytotoxic ISO 10993-5. The hose silicone is vulcanised with platinum and the entire hose is manufactured in a certified clean zone (ISO 14644-1 Class 8). It complies with EC 1935/2004 and 2023/2006/EC (GMP). The manufacturing process of the hose is free of substances of animal origin, phthalates, adipates, nitrosamines and restricted materials in accordance with the RoHS 2011/65/EU Materials Directive and REACH 1907/2006/EU Regulation.

Sterilisation: steam max. +135°C at 3.5 bar for max. 30 min.

Cleaning: water up to 95°C; sodium hydroxide 3%, 80°C; nitric / phosphoric / peracetic acid 3%, 80°C; hydrochloric acid, sodium hypochlorite 200 ppm, 80°C, max. 30 min.



index	internal diameter* [mm]	external diameter [mm]	wall thickness* [mm]	working pressure [bar]	Bursting pressure [bar]	vacuum [bar]	static / dynamic bend radius [mm].	mass [kg/m]	max. length [m]
MT-DYNAMIC-CP-10	10	22	6	10	30	0,9	35 / 50	0,36	20
MT-DYNAMIC-CP-13	13	25	6	10	30	0,9	45 / 60	0,42	20
MT-DYNAMIC-CP-16	16	28	6	10	30	0,9	55 / 75	0,57	20
MT-DYNAMIC-CP-19	19	31	6	10	30	0,9	65 / 90	0,65	30
MT-DYNAMIC-CP-25	25	37	6	10	30	0,9	85 / 140	0,80	30
MT-DYNAMIC-CP-32	32	44	6	10	30	0,9	120 / 200	1,00	30
MT-DYNAMIC-CP-38	38	51	6,5	10	30	0,9	140 / 250	1,27	30
MT-DYNAMIC-CP-51	51	67	8	10	30	0,9	180 / 300	1,98	30
MT-DYNAMIC-CP-63	63,5	79,5	8	5	15	0,9	320 / 380	2,53	20
MT-DYNAMIC-CP-76	76	92	8	5	15	0,9	380 / 460	3,62	20
MT-DYNAMIC-CP-100	100	118	9	3	9	0,9	500 / 600	5,02	20

* Internal diameter tolerance: ISO 1307; wall thickness tolerance: ± 0.8 mm;



Hose MT-DYNAMIC-CP-25 with AISI 316 stainless steel TRICLOVER hygienic end (NH-TCR-050-22-025) fitted with sleeve TI-LR-037-16-SS