



MANIFATTURA TUBI GOMMA S.p.A.

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APPLICATION

- Multipurpose hose, specifically designed to convey pharmaceutical, cosmetic and chemical substances.
- Especially suitable for application in pharmaceutical environments and production processes requiring the use of non-contaminating, inert materials.

CONSTRUCTION

TUBE

- PFA (Perfluoroalkoxy Polymer), white colour, fully fluorinated, mirror-smooth. Odourless and tasteless.
- Compliance: USP Class VI, 3A, FDA Standards, D.M. 21/03/73 and following amendments, Regulation EU n. 10/2011, ISO 10993-4, -10, -11, non-cytotoxic according to ISO 10993-Part 5.

REINFORCEMENT

- High strength plies of synthetic cord and embedded steel helix wire.
- Two copper wires are embedded.

COVER

- Marble finish (UPE), black and white, patented, smooth, resistant to abrasion, ozone and ageing.
- Antistatic: Electrical resistance $R < 10^6 \Omega$.
- The special marble finish with a low coefficient of friction complies with FDA Standards, odourless and tasteless. The cover does not stain the contact surfaces.

PATENTS

- E.P. 1450092.
- E.P. 1580475.
- U.S. Patent 7,389,799.

SAFETY FACTOR

- ≥ 4 times working pressure.

MAIN BENEFITS

- The fluorinated tube ensures an excellent impermeability and contamination-free transport of the fluid.
- Also, it provides excellent resistance to repeated bending cycles according to ASTM D 2176.
- Marble finish cover, smooth and easy to clean. Resistant to mild chemicals and aggressive acids for short time.
- Hose in accordance with EC 1935/2004 and 2023/2006/EC (GMP). The MTG production cycle is free from animal derived ingredients, phthalates, adipates and materials subject to restrictions acc. to EC 1907/2006 (REACH).
- Non-plasticized inner tube.

TEMPERATURE RANGE

- From -40°C to $+130^\circ\text{C}$ depending on the fluids conveyed and the application. In case of dynamic application: from $+10^\circ\text{C}$ to $+40^\circ\text{C}$.

STERILIZATION

- Sterilization up to $+150^\circ\text{C}$ for max. 30 minutes.

NOTE

- Execution acc. to EN 12115:2011, upon request.
- Please check recommendations and instructions mentioned in the MTG "use and maintenance guideline for PFA/MFA hoses".

MARKING

- If required, execution according to EN 12115:2011, embossed tape according to EN 12115: 2011, lengthwise, with identification symbol:
 - Ω for version WITHOUT embedded copper wires;
 - M for version WITH embedded copper wires.



TECHNICAL SPECIFICATIONS

SIZE TOLERANCES: I.D.: ISO 1307 - Wall thickness: DIN 7715 T4 S2 - Length: ISO 1307

Inner Diameter mm	Outer diameter mm	Wall thickness mm	Working pressure BAR	Burst pressure BAR	Vacuum BAR	Min. bending radius (Static) mm	Min. bending radius (Dynamic) mm	Approx. weight kg/m	Max. length m
13	25	6.0	10	40	-0.9	45	60	0.55	20
19	31	6.0	10	40	-0.9	65	90	0.72	30
25	37	6.0	10	40	-0.9	85	140	0.89	30
32	45	6.5	10	40	-0.9	120	200	1.16	30
38	51	6.5	10	40	-0.9	140	250	1.47	30
51	65.5	7.25	10	40	-0.9	180	300	2.08	30
63.5	79.5	8.0	10	40	-0.9	250	380	2.80	20
76	92	8.0	10	40	-0.9	350	500	3.48	20
100	117	8.5	10	40	-0.9	700	700	4.77	20

Chemical resistance acc. to MTG Chemical Resistance Chart. Above technical data refer to application at room temperature ($+20^\circ\text{C}$). Other sizes and colours are available upon request. Please contact our Sales Department.



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