



## MANIFATTURA TUBI GOMMA S.p.A.

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## APPLICATION

- Flexible multipurpose hose "Full Ohm", approved by the Institute Ineris for use in Atex areas, attestation nr. INERIS-DRA-20-200870-02408A.
- Perfect technical solution for handling cosmetic, pharmaceutical and highly flammable chemical products.
- Execution complying with EN 12115: 2021.
- Engineered to ensure dissipation of electrostatic charges not only on the surfaces (tube and cover  $R < 10^6 \Omega$ ) but also through the hose wall ( $R < 10^9 \Omega$ ).

## CONSTRUCTION

### TUBE

- PFA (Perfluoroalkoxy), fully fluorinated, mirror-smooth, black colour, antistatic ( $R < 10^6 \Omega$ ), patented.
- Compliance: USP Class VI, FDA Standards, 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.
- Embedded steel helix wire.
- Copper wires on request.

### COVER

- Synthetic rubber, black colour, resistant to abrasion and ageing, antistatic ( $R < 10^6 \Omega$ ), smooth, cloth finish.

## PATENTS

- E.P. 1450092.

## SAFETY FACTOR

- $\geq 4$  times working pressure.

## MAIN BENEFITS

- The fluorinated inner liner ensures utmost chemical and temperature resistance, excellent impermeability and contamination-free transport of the fluid conveyed.
- 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 according to EC 1907/2006 (REACH).
- Non-plasticized inner tube.

## TEMPERATURE RANGE AND STERILIZATION

- Temperature Range: In accordance with EN 12115: 2021.
- Steam disinfection, in an open circuit, with peaks up to  $+164^\circ\text{C}$  for max. 20 minutes.

## ELECTRICAL PROPERTIES

- Electrical resistance through the hose wall:  $R < 10^9 \Omega$ .
- Identification symbol:
  - $\Omega/T$  for version without copper wires;
  - $M/T$  for version with copper wires.

## NOTE

- Please check recommendations and instructions mentioned in the MTG "use and maintenance guideline for PFA/MFA hoses".
- Not autoclavable.

## MARKING

- Embossed tape according to EN 12115: 2021, lengthwise.



## TECHNICAL SPECIFICATIONS

SIZE TOLERANCES: I.D.: EN 12115:2021 - Wall thickness: EN 12115:2021 - 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) *	Approx. weight kg/m	Max. length m
13	25	6.0	10	40	-0.9	135	-	0.51	20
19	31	6.0	10	40	-0.9	188	-	0.67	30
25	37	6.0	10	40	-0.9	225	-	0.88	30
32	45	6.5	10	40	-0.9	262	-	1.16	30
38	51	6.5	10	40	-0.9	338	-	1.43	30
51	65.5	7.25	10	40	-0.9	412	-	1.95	30
63.5	79.5	8.0	10	40	-0.9	450	-	2.75	20
76	92	8.0	10	40	-0.9	525	-	3.20	20
100	117	8.5	10	40	-0.9	700	-	4.60	20

(\*) In case of dynamic application please contact our Technical Dept.

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

MTG reserves the rights to implement changes in product specifications without notice and as may be deemed appropriate by the Company for any technical or commercial reason.