



mitos-R

- Reinforced platinum-cured silicone tubing
- Withstands high pressure, resists kinking

mitos-R is a platinum-cured silicone hose with polyester fibre braid reinforcement structure to maintain flexibility, withstand high pressure and resist kinking.

This hose can be molded with other silicones into manifold assemblies with molded tri-clamp, creating seamless and crevice-free fittings. It can also be used in radially-crimped hose assemblies.

Features and Benefits

- Lot number and customized information directly on hose with CLEAR-mark® label*
- Can be molded with other silicones into manifold assemblies (Ts, Ys, crosses, elbows and reducers)
- Animal derived component free
- Certificate of conformance with each order
- Manufactured in ISO Class 7 clean room
- Can be chemically or mechanically cleaned and can be sterilized by chemicals, autoclave or gamma-irradiation
- SIP / CIP capable
- Available with internal diameter up to 1"

*CLEAR-mark® is a registered trademark of Integra Companies.



Molded silicone fittings

Molded silicone fittings are the ideal option when there is need for an easily cleanable assembly, or to reduce the risk of cross-contamination. In each molded fitting, the elastomer chains of the platinum-cured silicone are cross-linked to create a permanent molecular bond to the tubing. A special feature of our molded tri-clamp is an integrated gasket that, when connected to another fitting, eliminates 50% of the sealing faces creating seamless and crevice-free fittings. For extra support, we offer a full stainless steel or polysulfone back-up cup on the outside of each molded fitting. Our plastic back-up cups have a unique wraparound design that fully encases the tri-clamp mold.



Applications

Molded manifold assemblies
High pressure transfer lines
Single-use applications
Radially-crimped hose assemblies

Specifications

Materials of Construction

- Material: Platinum-cured silicone with fibre braid reinforcement

Available Fittings

- Molded tri-clamp
- Radially-crimped 316L stainless steel
- All other industry standard connections

Sterilization

- Gamma Irradiation: Maximum of 50 kGy
- Autoclave: 1 bar (14.5 psi) @ 121°C (250°F)

Physical Properties

- Elongation at break (%): ASTM D-412 425%
- Shore hardness: ASTM D-2240 60 Shore A
- Tear strength: ASTM D-412 100 die B (PPI)
- Tensile strength: 1200 psi
- General temperature range: -100°F (-73.3°C) to 302°F (150°C)
- Brittle temperature: -100°F (-73.3°C)
- Max. operating temperature: 400°F (204.4°C)

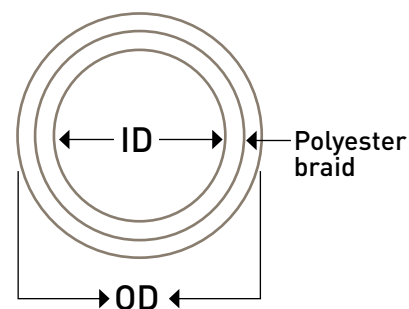
Certified Standard of Compliance

- FDA CFR 177.2600
- USP Class VI
- European Pharmacopoeia 3.1.9
- ISO 10993
- Additional validation testing performed, see validation guide for details

Sizes

Part Number	ID	OD	*Recommended working pressure (psi) @ 68 °F	Minimum burst pressure (psi) @ 68 °F
02-MITOS-R	1/8"	3/8"	175	700
03-MITOS-R	3/16"	0.462"	170	650
04-MITOS-R	1/4"	1/2"	160	575
06-MITOS-R	3/8"	5/8"	150	550
08-MITOS-R	1/2"	7/8"	140	420
10-MITOS-R	5/8"	1"	115	400
12-MITOS-R	3/4"	1 1/4"	90	350
16-MITOS-R	1"	1 3/8"	60	225

* Note: If part of a molded assembly, maximum operating pressure would change.



Parker domnick hunter technologies can be combined to produce integrated solutions that will speed up development times, increase efficiency and safety, and guarantee reproducible product quality.

