



mitos-P

- Platinum-cured silicone tubing
- Ideal for manifold assemblies

mitos-P is a nonreinforced platinum-cured silicone tubing with lot and part number etched directly onto the tubing. mitos-P is well suited for performance in applications requiring use of peristaltic pumps and / or molded assemblies.

This precision tubing is manufactured with an automated control system that repeatedly measures the inner bore and wall thickness, maintaining a 0.002" to 0.008" tolerance.

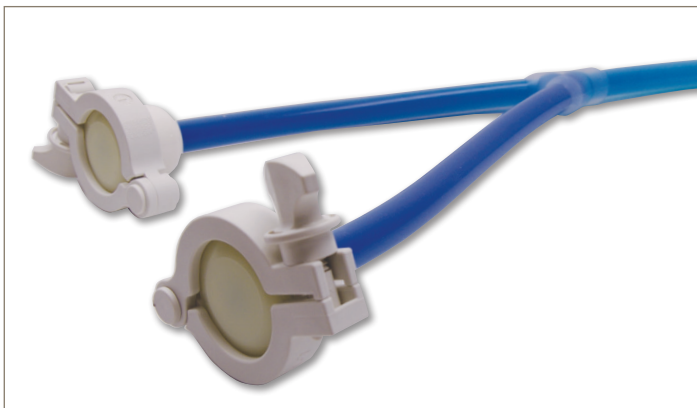
Features and Benefits

- Lot number, tube ID and wall thickness marked on each tube
- Tightest wall tolerance available (0.002" to 0.008")
- Ideal for molding with other silicones into manifold assemblies (Ts, Ys, crosses, elbows and reducers)
- Certificate of conformance included with each order
- Manufactured in ISO Class 7 cleanroom
- Can be chemically or mechanically cleaned and can be sterilized by chemicals, autoclave or gamma-irradiation
- Available in four different wall thicknesses and internal diameters up to 1"



Ideal for use in peristaltic pumps and molded assemblies

mitos-P is the preferred platinum-cured silicone tubing for use in peristaltic pumps and molded assemblies because of its consistency in dimensions. This consistency delivers optimum performance in both applications by providing steady flow rates during pumping and by ensuring better bonding during molding, giving greater integrity to the assembly.



Applications

Single-use applications
Molded manifold assemblies
Peristaltic pumps
Bioprocess container systems
Low pressure transfer lines

Specifications

Materials of Construction

- Material: Platinum-cured silicone

Optional Fittings

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

Working Temperature Range

-4 °F (-20 °C) to 176 °F (80 °C)

Physical Properties

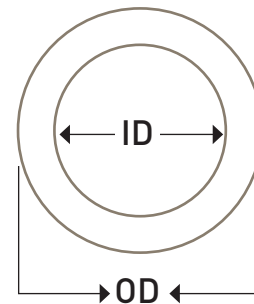
- Elongation at break (%): ASTM D-412 550-1500
- Shore hardness: ASTM D-2240 55-57
- Specific gravity: Shore A
- Compression set: ASTM D-792 1.135-2.37
- Compression set: N/A 5.0-42.5%
- Tear strength: die B(PPI) ASTM D-412 200-500
- Gamma: up to 50 kGy
- Autoclave: 1 bar (14.5 psi) @ 121 °C (250 °F)

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	Wall	Pump size	Burst Pressure (psi)
02-MITOS-P-2	1/8"	1/4"	1/16"	300 / 500	80
02-MITOS-P-3	1/8"	5/16"	3/32"	300 / 500	120
03-MITOS-P-2	3/16"	5/16"	1/16"	300 / 500	60
03-MITOS-P-3	3/16"	3/8"	3/32"	300 / 500	80
04-MITOS-P-2	1/4"	3/8"	1/16"	300 / 500	50
04-MITOS-P-3	1/4"	7/16"	3/32"	300 / 500	60
04-MITOS-P-4	1/4"	1/2"	1/8"	600	80
05-MITOS-P-2	5/16"	7/16"	1/16"	600	30
05-MITOS-P-3	5/16"	1/2"	3/32"	600	50
06-MITOS-P-4	3/8"	5/8"	1/8"	600	60
06-MITOS-P-5	3/8"	3/4"	3/16"	700	80
08-MITOS-P-4	1/2"	3/4"	1/8"	600	50
08-MITOS-P-5	1/2"	7/8"	3/16"	700	60
10-MITOS-P-4	5/8"	7/8"	1/8"	700	30
10-MITOS-P-5	5/8"	1"	3/16"	700	50
12-MITOS-P-5	3/4"	1 1/8"	3/16"	700	50
16-MITOS-P-5	1"	1 3/8"	3/16"	700	30



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.



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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)

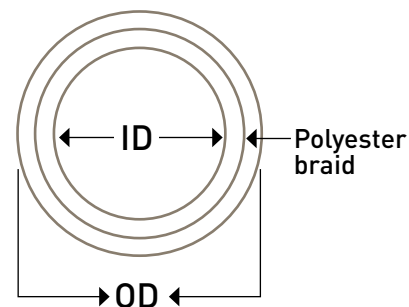
Certified Standard of Compliance

- 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.



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mitos-W is a platinum-cured silicone hose with multi-ply fibre braids and 316 stainless steel helical wire reinforcement for high pressure or vacuum applications.

Features and Benefits

- Lot number and customized information directly on hose with CLEAR-mark® label*
- Manufactured free from known animal derived components
- Certificate of conformance with each order
- Smooth inner bore
- 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 3"

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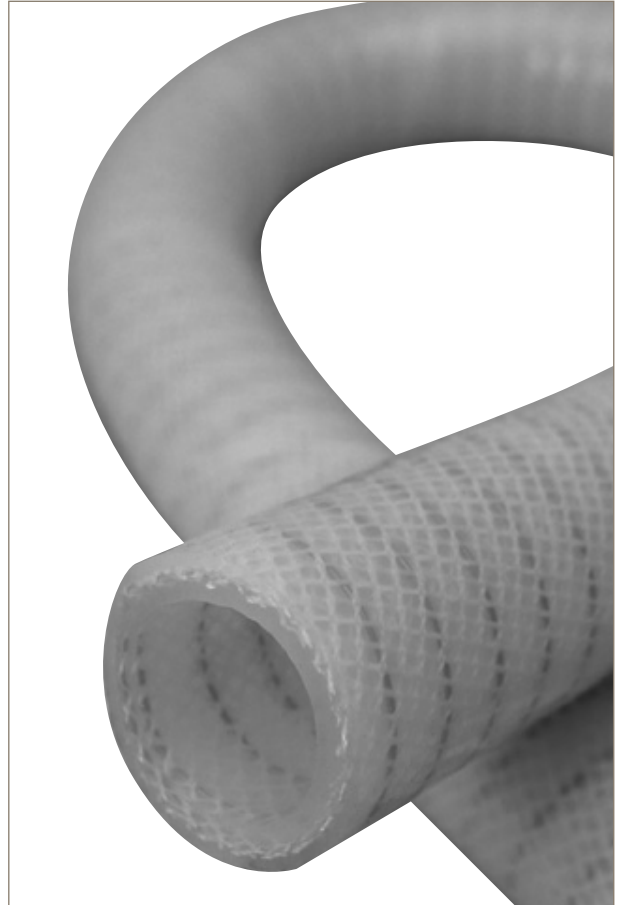
Fittings

Parker domnick hunter offers a comprehensive line of industry standard connection options. All stainless steel fittings are 316 stainless steel and are available in an electropolished (<15 Ra) or standard machine finish (20 Ra). Our stainless steel fittings are manufactured in a U.S. based facility dedicated exclusively to fabricating sanitary fittings for the biotech industry. Parker domnick hunter fittings are unparalleled in material consistency, dimensions, surface finish, and craftsmanship. All fittings feature a heat identifier which allow them to be fully traceable. Styles include molded tri-clamp, radially-crimped stainless steel (shown below with mitos-WCO hose) and other industry standard connections.



mitos-W

- Platinum-cured silicone hose, stainless steel wire reinforced tubing
- For high pressure or vacuum applications



Applications

Hose assemblies
Bulk transfer lines
High pressure transfer lines
Vacuum applications
SIP / CIP carts
Load cells

Specifications

Materials of Construction

- Material: Platinum-cured silicone

Available Fittings

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

Temperature Rating

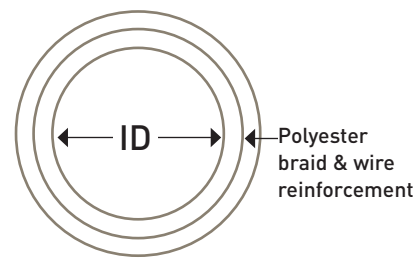
-80 °F (-62 °C) to 500 °F (260 °C)

Certified Standard of Compliance

- FDA CFR 177.2600
- USP Class VI
- European Pharmacopoeia 3.1.9
- ISO 10993
- Additional validation testing performed, contact Parker domnick hunter for further information

Sizes

Part Number	ID	Recommended working pressure (psi) @ 68 °F	Minimum burst pressure (psi) @ 68 °F	Vacuum rating (HG)	Bend radius (in.)
08-MITOS-W	1/2"	150	500	29.9	3.0
12-MITOS-W	3/4"	125	500	29.9	4.0
16-MITOS-W	1"	125	500	29.9	6.0
24-MITOS-W	1 1/2"	125	500	29.9	8.0
32-MITOS-W	2"	100	350	29.9	8.0
40-MITOS-W	2 1/2"	cf	cf	cf	cf
48-MITOS-W	3"	cf	cf	cf	cf



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mitos-WCO

- Platinum-cured silicone hose, stainless steel wire reinforced, with convoluted exterior
- For high pressure or vacuum applications with excellent bend radius

mitos-WCO is a platinum-cured silicone hose with multi-ply fibre braids, 316 stainless steel helical wire reinforcement and a convoluted exterior. The convoluted exterior provides excellent bend radius and resistance to kinking.

Features and Benefits

- Lot number and customized information directly on hose with CLEAR-mark® label*
- Animal derived component free
- Certificate of conformance with each order
- Smooth inner bore
- Superior bend radius and resistance to kinking
- Can be sterilized by autoclave or gamma-irradiation
- SIP / CIP capable
- Available with internal diameter up to 3"

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Radially-crimped stainless steel

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Applications

•	Hose assemblies
•	Bulk transfer lines
•	High pressure transfer lines
•	Vacuum applications
•	SIP / CIP carts
•	Load cells

Specifications

Materials of construction

- Material: Platinum-cured silicone
- Stainless steel wire
- Fibre mesh

Certified standard of compliance

- FDA CFR 177.2600
- USP Class VI
- European Pharmacopoeia 3.1.9
- ISO 10993

Available Fittings

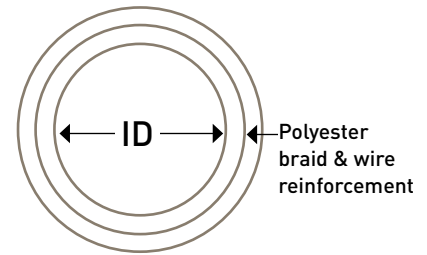
- Radially-crimped 316L stainless steel
- All other industry standard connections

Temperature rating

-80 °F (-62 °C) to 500 °F (260 °C)

Sizes

Part Number	ID	Recommended working pressure (psi) @ 68 °F	Minimum burst pressure (psi) @ 68 °F	Vacuum rating (HG)	Bend radius (in.)
08-MITOS-WCO	1/2"	150	500	29.9	2.0
12-MITOS-WCO	3/4"	150	500	29.9	2.5
16-MITOS-WCO	1"	125	500	29.9	4.5
24-MITOS-WCO	1 1/2"	100	500	29.9	6.0
32-MITOS-WCO	2"	100	350	29.9	7.5



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