

Masterflex® Puri-Flex® Pump Tubing

Masterflex® Puri-Flex® pump tubing is engineered for high-purity applications where fluid integrity and operational efficiency are critical. Formulated without DEHP phthalates or halogen plasticizers, this tubing offers ultra-low extractables, low protein binding, and excellent biocompatibility, helping reduce contamination risk and support product quality. Puri-Flex tubing is thermally weldable and heat-sealable for sterile connections and disconnections in single-use systems.

Designed to withstand the demanding conditions of peristaltic pumping, Puri-Flex combines flexibility with exceptional durability to help minimize maintenance, tubing changeouts, and process interruptions. Long-lasting pump performance, tested on average up to 5,000 hours at 50 rpm, maintains consistent flow characteristics over extended operating cycles.



CERTIFICATION

USP Class VI, FDA, 3A, NSF-51, and
EU Pharmacopeia

APPLICATIONS

- Single-use assemblies
- Aseptic filling
- Food and dairy processing

FEATURES/BENEFITS

- Developed and tested to ensure long-lasting pump performance up to 5,000 hours
- Heat sealable and weldable
- Autoclave multiple times at the new higher 135 °C standard or sterilize by ethylene oxide (EtO) or gamma irradiation up to 45 kGy
- Translucent for easy visual monitoring
- Non-DEHP, no phthalates or halogen plasticizers
- Genuine Masterflex tubing undergoes robust testing to provide optimal performance and pump life hours with peristaltic pump equipment
- Precision extruded to tight tolerances for long life, high accuracy, and reproducibility

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All others

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Cole-Parmer®
coleparmer.com

*Enquiries from Germany and France are handled by native speaking experts.

Physical Properties

Property		Value
Durometer		68 Shore A
Temperature Range	Static	–50 to 135 °C (–58 to 275 °F)
	Dynamic (pumping)	–30 to 100 °C (–22 to 212 °F)
Sterilization		Autoclave, ethylene oxide (EtO), or gamma irradiation
Color		Translucent, clear to light white
Chemical Compatibility	Acids	Good
	Alkalies	Good
	Organic Solvents	Not recommended

Specification and Ordering Table – Masterflex® Pump Tubing

Dimensions		Max Pressure psi (bar)	Max Vacuum in. Hg (mm Hg)	Suction Lift ft H ₂ O (m H ₂ O)	Length (ft)	Item number
Tubing Size	Hose Barb Size in. (mm)					
L/S® Precision Pump Tubing						
L/S 13	1/16" (1.6)	40 (2.7)	26 (660)	29 (8.8)	25	68708-96
L/S 14	1/16" (1.6)	40 (2.7)	26 (660)	29 (8.8)	25	68708-97
L/S 16	1/8" (3.2)	40 (2.7)	26 (660)	29 (8.8)	25	68708-99
L/S 25	3/16" (4.8)	35 (2.4)	26 (660)	29 (8.8)	25	68709-03
L/S 17	1/4" (6.4)	20 (1.4)	20 (510)	22 (6.7)	25	68709-00
L/S 18	3/8" (9.5)	15 (1)	20 (510)	22 (6.7)	25	68709-01
L/S® High-Performance Precision Pump Tubing						
L/S 15	3/16" (4.8)	40 (2.7)	26 (660)	29 (8.8)	25	68708-98
L/S 24	1/4" (6.4)	40 (2.7)	26 (660)	29 (8.8)	25	68709-02
L/S 35	3/8" (9.5)	35 (2.4)	26 (660)	29 (8.8)	25	68709-05
L/S 36	3/8" (9.5)	20 (1.4)	24 (610)	27 (8.3)	25	68709-06
I/P® Precision Pump Tubing						
I/P 26	1/4" (6.4)	40 (2.7)	26 (660)	29 (8.8)	25	68709-04
I/P 73	3/8" (9.5)	40 (2.7)	26 (660)	29 (8.8)	25	68709-08
I/P 82	1/2" (12.7)	20 (1.4)	20 (510)	23 (7)	25	68709-09
I/P® High-Performance Precision Pump Tubing						
I/P 70	3/8" (9.5)	40 (2.7)	26 (660)	29 (8.8)	10	68709-07
I/P 88	1/2" (12.7)	35 (2.4)	26 (660)	29 (8.8)	10	68709-11
I/P 89	5/8" (15.9)	20 (1.4)	24 (610)	27 (8.3)	10	68709-12

Specification and Ordering Table – Masterflex® Pump Tubing (continue)

Dimensions		Max Pressure psi (bar)	Max Vacuum in. Hg (mm Hg)	Suction Lift ft H2O (m H2O)	Length (ft)	Item number
Tubing Size	Hose Barb Size in. (mm)					
B/T® PerfectPosition® Pump Tubing						
B/T 87	1/2" (12.7)	35 (2.4)	26 (660)	29 (8.8)	10	68709-10
B/T 91	3/4" (19)	30 (2.06)	26 (660)	29 (8.8)	10	68709-13

Specification and Ordering Table – Ismatec® Pump Tubing

Tubing ID (mm)	Length (ft)	Item Number
0.19	50	68708-84
0.25	50	68708-85
0.38	50	68708-86
0.51	50	68708-87
0.64	50	68708-88
0.76	50	68708-89
1.02	50	68708-90
1.14	50	68708-91
1.52	50	68708-92
1.85	50	68708-93
2.06	50	68708-94
2.79	50	68708-95