



MASTERFLEX®

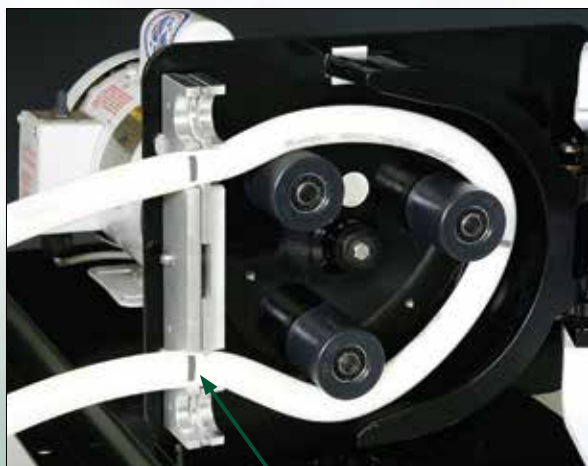
B/T® PERFECTPOSITION™ PUMP TUBING



ENSURE OPTIMAL PERFORMANCE FROM YOUR MASTERFLEX PUMP

- Precision extruded to meet tight tolerances
- Factory tested and optically inspected
- Engineered to comply with numerous standards and classifications
- Different formulations and sizes accommodate a wide range of applications in numerous markets

To ensure accurate flow rates and long tubing life, use only Masterflex tubing in your pump applications—accept no substitutes! Our tubing is your best choice because, unlike general-purpose commodity tubing, it is specifically designed and manufactured for use in demanding peristaltic pump applications. Masterflex tubing will help you achieve top performance from your fluid transfer system.



PerfectPosition tubing retention marks
indicate the best placement of the tubing
within the B/T pump head.

CONSIDER THE FOLLOWING WHEN CHOOSING TUBING:













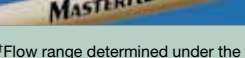
- **Flow Rate:** Tubing size directly affects flow rate—make sure the size is appropriate for your flow requirements
- **Chemical Compatibility:** Ensure tubing formulation is compatible with the fluid you will pump. Use the helpful compatibility charts at ColeParmer.com/mflexchem
- **Tubing Life:** All Masterflex tubing is formulated for optimal performance in Masterflex pumps. See detailed tubing life and graph information at ColeParmer.com/masterflex
- **Fluid Characteristics:** Temperature, viscosity, solids, pressure, and suction lift all affect tubing performance and selection—visit ColeParmer.com/masterflex for full tubing specifications

B/T PerfectPosition Pump Tubing

Position more easily—retention marks indicate exact placement

- Optimized for use in B/T pumps to provide the pumping life, flow, and repeatability that you expect
- PerfectPosition indicator marks confirm proper loading and ensure optimal performance

Tubing size	B/T 87	B/T 91
Inner diameter (nominal)	12.7 mm (0.5")	19.0 mm (0.75")
Hose barb size	12.7 mm (½")	19.0 mm (¾")
Flow range, approximate [†]	0.67 to 18.9 LPM (0.17 to 5.0 GPM)	1.4 to 42 LPM (0.4 to 11.1 GPM)
Maximum pressure [‡]	2.4 bar (35 psi)	2.06 bar (30 psi)
Maximum vacuum [‡]	660 mm Hg (26" Hg)	
Suction lift [‡]	8.8 m H ₂ O (29 ft H ₂ O)	

Pump tubing formulation	Description		
Silicone (platinum-cured) 	<ul style="list-style-type: none"> – Complies with USP Class V, EP, FDA, REACH, RoHS, ADF – Low protein binding, fungus-resistant, phthalate and latex free – Accommodates a wide temperature range 	MK-96510-87 3 m (10 ft)/pk	MK-96510-91 3 m (10 ft)/pk
Silicone (peroxide-cured) 	<ul style="list-style-type: none"> – Complies with USP Class VI, EP, FDA, 3A, REACH, RoHS, ADF – Greater physical compression capability – Economical, long life 	MK-96400-87 3 m (10 ft)/pk	MK-96400-91 3 m (10 ft)/pk
BioPharm Plus Silicone (platinum-cured) 	<ul style="list-style-type: none"> – Complies with USP Class VI, EP, FDA, 3A, REACH, RoHS, ADF – Ultra-smooth inner surface minimizes particle entrapment – Very low extractable—ideal for lab, biotech pharma applications 	MK-96445-87 3 m (10 ft)/pk	MK-96445-91 3 m (10 ft)/pk
Puri-Flex™ 	<ul style="list-style-type: none"> – Complies with USP Class VI, FDA, REACH, RoHS, ADF – Heat sealable, weldable, and economical – Long pump life compared to silicone or many TPE tubings 	MK-96419-87 3 m (10 ft)/pk	MK-96419-91 3 m (10 ft)/pk
C-Flex® 	<ul style="list-style-type: none"> – Complies: USP Class VI, EP, REACH, RoHS, ADF – Heat sealable, weldable, economical – Better resistance to pH fluctuations 	MK-06424-87 3 m (10 ft)/pk	MK-06424-91 3 m (10 ft)/pk
PharMed® BPT 	<ul style="list-style-type: none"> – Complies: USP Class VI, EP, FDA, NSF-51, REACH, RoHS – Over 10,000 hours of tubing life, sealable, weldable – Ideal for tissue and cell culture work 	MK-06507-87 3 m (10 ft)/pk	MK-06507-91 3 m (10 ft)/pk
PharmaPure® 	<ul style="list-style-type: none"> – Complies: USP Class VI, EP, FDA, REACH, RoHS – Nontoxic and nonhemolytic biocompatible – Long life even under pressure with VERY low spallation 	MK-06437-87 3 m (10 ft)/pk	MK-06437-91 3 m (10 ft)/pk
Chem-Durance® Bio 	<ul style="list-style-type: none"> – Complies: USP Class VI, FDA, REACH, RoHS – Excellent chemical compatibility and biocompatibility – Excellent pump life and durability under pressure 	MK-06443-87 3 m (10 ft)/pk	MK-06443-91 3 m (10 ft)/pk
Tygon® E-LFL 	<ul style="list-style-type: none"> – Complies: USP Class VI, EP, FDA, EU Food, REACH, RoHS, ADF – Longest life of all Tygon formulations – Broad chemical resistance 	MK-06440-87 3 m (10 ft)/pk	MK-06440-91 3 m (10 ft)/pk
Tygon® E-Food (B-44-4X) 	<ul style="list-style-type: none"> – Complies with FDA, EU Food, NSF-51, 3A, REACH, RoHS, ADF – Smooth inner surface unaffected by commercial sanitizers – Nontoxic, will not affect taste or odor 	MK-06418-87 3 m (10 ft)/pk	MK-06418-91 3 m (10 ft)/pk
Norprene® Food (A-60-F) 	<ul style="list-style-type: none"> – Complies with FDA, 3A, NSF-51, REACH, RoHS – Ideal for high-temperature food applications – Resists heat, ozone, acids, and alkalies 	MK-06399-87 3 m (10 ft)/pk	MK-06399-91 3 m (10 ft)/pk

[†]Flow range determined under the following conditions: Using a 11 to 321 rpm drive; 0 psi at inlet, 0.5 psi at outlet; water temperature at 22°C (72°F).

[‡]Actual performance varies depending on tubing formulation—values shown are for firm tubing.

For more information:

800-637-3739 or 847-381-7050
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fluidhandling@coleparmer.com

 **Cole-Parmer®**
Delivering Solutions You Trust