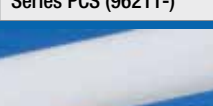
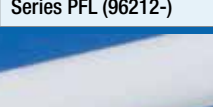


Choosing the Right Masterflex® Tubing Formulation

Pump tubing formulation	Advantages	Application suitability†							Meets classifications	Gas permeability	Sterilization
		Acids	Alkalies	Organic solvents	Pressure	Vacuum	Viscous fluids	Sterile fluids			
Silicone (platinum-cured) 96410-, 96510-series 	Excellent biocompatibility. No leachable additives, DOP, or plasticizers; phthalate and latex-free; odorless and nontoxic, fungus-resistant. No taste imparted to transported fluids. Weather, ozone, corona, and radiation resistant. Minimal tendency to take a set. Translucent, clear to light amber.	N/R	N/R	N/R	F	G	F	E	USP Class V Extractables Exceeds Class VI Implant European Pharmacopoeia (EP 3.1.9) FDA 21 CFR 177.2600; FDA 21 CFR 210 and 211; Exceeds 3A sanitary cGMPs; REACH (non-DEHP) compliant RoHS compliant ADCF compliant	CO ₂ : 20,132 H ₂ : 6579 O ₂ : 7961 N ₂ : 2763	Sterilize by EtO, autoclave, or gamma irradiation.
Silicone (peroxide-cured) 96400-, 96406-series 	Excellent biocompatibility. No additives, plasticizers or DOP; odorless and nontoxic, fungus-resistant. No taste imparted to transported fluids. Weather, ozone, corona, and radiation resistant. Minimal tendency to take a set. Translucent, clear to light amber.	N/R	N/R	N/R	F	G	F	E	USP Class VI European Pharmacopoeia (EP 3.1.9) FDA 21 CFR 177.2600 Exceeds 3A sanitary standards REACH (non-DEHP) compliant RoHS compliant ADCF compliant	CO ₂ : 20,132 H ₂ : 6579 O ₂ : 7961 N ₂ : 2763	Sterilize by EtO or autoclave.
BioPharm Silicone (platinum-cured) 96420-, 96421-series 	Ultra-smooth inner surface minimizes particle entrapment. Lower absorption; excellent biocompatibility; no leachable additive, DOP, or plasticizers. Very low extractables. Odorless and nontoxic, fungus-resistant. No taste imparted to transported fluids. Weather, ozone, corona, and radiation resistant. Translucent, clear to light amber.	N/R	N/R	N/R	F	G	F	E	USP Class VI European Pharmacopoeia (EP 3.1.9) FDA 21 CFR 177.2600 Exceeds 3A sanitary standards REACH (non-DEHP) compliant RoHS compliant	CO ₂ : 25,147 H ₂ : — O ₂ : 4715 N ₂ : 2284	Sterilize by EtO, autoclave, or gamma irradiation.
BioPharm Plus Silicone (platinum-cured) 96440-, 96441-series 	Similar to BioPharm Silicone, plus: Longest life of any silicone pump tubing. Lower spallation than regular silicone. Enhanced pressure capability. Fungus-resistant. Nontoxic, no leachable plasticizers. Lower gas permeability than other silicones. Translucent, clear to light amber.	N/R	N/R	N/R	F	G	F	E	USP Class VI European Pharmacopoeia (EP 3.1.9) FDA 21 CFR 177.2600 Exceeds 3A sanitary standards REACH (non-DEHP) compliant RoHS compliant	CO ₂ : 25,147 H ₂ : — O ₂ : 4715 N ₂ : 2284	Sterilize by EtO, autoclave, or gamma irradiation.
Puri-Flex™ 96419-series 	Biocompatible. Heat sealable and weldable. Long pump life when compared to silicone or other TPE tubings. Low spallation when compared to silicone or some other TPE tubings. Very low protein binding. Cost effective. No halogens or phthalates. Translucent, clear to light white.	G	G	N/R	G	G	E	E	USP Class VI FDA 21 CFR 177.2600 and 177.1810 REACH (non-DEHP) compliant RoHS compliant ADCF compliant	CO ₂ : 1200 H ₂ : — O ₂ : 200 N ₂ : 80	Sterilize by EtO, autoclave up to 135°C (275°F), gamma irradiation up to 4.5 Mrad.
C-Flex® 06424-series 	Physical properties similar to silicone with chemical compatibility of Tygon®. Inexpensive. Biocompatible. Heat sealable and weldable. Opaque, white.	G	G	N/R	F	G	F	E	USP Class VI European Pharmacopoeia (EP 3.2.9) REACH (non-DEHP) compliant RoHS compliant ADCF compliant	CO ₂ : — H ₂ : — O ₂ : 150 N ₂ : —	Sterilize by EtO, autoclave, or gamma irradiation.
C-Flex® ULTRA 06434-series 	Physical properties similar to silicone with chemical compatibility of Tygon®. Biocompatible. Heat sealable and weldable. Longer pump life and lower spallation than C-Flex. Translucent.	G	G	N/R	F	G	F	E	USP Class VI European Pharmacopoeia (EP 3.2.9) REACH (non-DEHP) compliant RoHS compliant ADCF compliant	CO ₂ : 2.1 H ₂ : — O ₂ : 1.1 N ₂ : 3.4	Sterilize by gamma irradiation or one cycle of autoclave at 121°C (250°F), 1 bar (15 psi) for 30 minutes.

†E = Excellent, G = Good, F = Fair, P = Poor, N/R = not recommended

Choosing the Right Masterflex® Tubing Formulation (continued)

Pump tubing formulation	Advantages	Application suitability†							Meets classifications	Gas permeability	Sterilization
		Acids	Alkalies	Organic solvents	Pressure	Vacuum	Viscous fluids	Sterile fluids			
PharMed® BPT 06508-series 	Great for tissue and cell work—nontoxic and nonhemolytic. Long service life (up to 10,000 hrs); reduces tubing costs and pump downtime. Opaque to UV and visible light to protect light-sensitive fluids. Low gas permeability. High-pressure 10.3 bar (150 psi) version available. Opaque, beige	G	G	N/R	G	G	E	E	USP Class VI European Pharmacopoeia (EP 3.2.9) FDA 21 CFR 177.2600 NSF-51 REACH (non-DEHP) compliant RoHS compliant	CO ₂ : 1200 H ₂ : — O ₂ : 200 N ₂ : 80	Sterilize by EtO, autoclave, or gamma irradiation up to 2.5 Mrad.
Solve-Flex® 96446-series 	Excellent chemical resistance, especially with solvents. Chemically inert. Low spallation. Nontoxic. Low coefficient of friction. Fluoropolymer-lined tubing. Opaque, white.	E	E	E	F	G	E	E	USP Class VI	—	Sterilize by EtO.
GORE® STA-PURE® pump tubing Series PCS (96211-) 	Unique composite structure adds strength and flex durability. Greater security against rupture up to 100 psig*. Consistent flow rate over long duration of use. Withstands rigors of CIP/SIP processing.	N/R	N/R	N/R	E	G	G	E	USP Class VI USP <87> USP Physicochemical Tests Compliant with restricted substances per REACH and RoHS No raw materials of animal origin	—	Sterilize by autoclave or SIP (steam in place).
GORE® STA-PURE® pump tubing Series PFL (96212-) 	Unique composite structure adds strength and flex durability. Greater chemical resistance than Series PCS. Stable flow rates achievable to 60 psig*. Withstands rigors of CIP/SIP processing.	E	E	E	E	G	G	E	USP Class VI USP <87> USP Physicochemical Tests Compliant with restricted substances per REACH and RoHS No raw materials of animal origin	—	Sterilize by autoclave or SIP (steam in place).
PharmaPure® 06435-series 	Nontoxic and nonhemolytic (similar to PharMed® BPT); biocompatible. Long life even under pressure; up to 1000 hours at 2.7 bar (40 psi). Very low spallation—protects fluid purity. Low extractables. Low gas permeability. Opaque, off-white.	G	G	N/R	G	G	E	E	USP Class VI FDA 21 CFR 177.2600 European Pharmacopoeia (EP 3.2.9) REACH (non-DEHP) compliant RoHS Compliant	CO ₂ : 1200 H ₂ : — O ₂ : 200 N ₂ : 80	Sterilize by EtO, autoclave or gamma irradiation up to 2.5 Mrad.
Chem-Durance® Bio 06442-series 	Excellent chemical resistance. Excellent life and durability under pressure. Low spallation. Plasticizer-free inner liner. High dielectric constant. Excellent biocompatibility. Opaque, beige.	E	E	G	E	E	E	E	USP Class VI FDA 21 CFR 177.2600 REACH (non-DEHP) compliant RoHS Compliant	CO ₂ : 745 H ₂ : — O ₂ : 200 N ₂ : 80	Sterilize by EtO, autoclave or gamma irradiation.
PTFE 77390-series 	Chemically inert. Excellent chemical resistance. Will not leach into or absorb out of fluid being pumped. Extremely low gas permeability. Nontoxic. Virtually nonporous. Low coefficient of friction. Translucent, white.	E	E	E	G	G	E	G	USP Class VI REACH (non-DEHP) compliant RoHS compliant ADCF compliant	CO ₂ : 6.8 H ₂ : — O ₂ : — N ₂ : 1.0	Sterilize by EtO or autoclave.

†E = Excellent, G = Good, F = Fair, P = Poor, N/R = not recommended

*Actual performance depends on the specific application conditions.

Choosing the Right Masterflex® Tubing Formulation (continued)

Pump tubing formulation	Advantages	Application suitability†							Meets classifications	Gas permeability	Sterilization
		Acids	Alkalies	Organic solvents	Pressure	Vacuum	Viscous fluids	Sterile fluids			
Tygon® E-LFL 06440-series 	Longest life of all Tygon® peristaltic tubing. Clear for easy flow monitoring. Broad chemical resistance. Nonaging, nonoxidizing. Low gas permeability. Smooth bore. Good for viscous fluids. High dielectric constant. Transparent, clear.	G	G	N/R	G	G	E	G	USP Class VI European Pharmacopia (EP 3.2.9) FDA 21 CFR 175.300 EU Food REACH (non-DEHP) compliant RoHS compliant ADFC compliant	CO ₂ : 563 H ₂ : — O ₂ : 124 N ₂ : 67	Sterilize by EtO or autoclave.
Tygon® E-Food (B-44-4X) 06418-series 	Designed especially for handling food products. Bore is extremely smooth (better than most stainless steels) Nontoxic, will not affect taste or odor, and clear for CIP and flow verification. Excellent nonwetting properties permit flush cleaning and complete drainage. High dielectric constant. Transparent, clear.	G	G	N/R	G	G	E	F	FDA 21 CFR 175.300 EU Food NSF-51 REACH (non-DEHP) compliant RoHS compliant ADFC compliant Meets 3A sanitary standards	CO ₂ : 270 H ₂ : 97 O ₂ : 60 N ₂ : 30	Sterilize by EtO or autoclave.
Tygon® E-Lab (E-3603) 06509-series 	Inexpensive tubing for general laboratory applications. Clear for easy flow monitoring. Handles virtually all inorganic chemicals. Nonaging, nonoxidizing. Low gas permeability. Good for viscous fluids. High dielectric constant. Transparent, clear.	G	G	N/R	G	G	E	P	USP Class VI FDA 21 CFR 175.300 EU Food NSF-51 REACH (non-DEHP) compliant RoHS compliant ADFC compliant	CO ₂ : 360 H ₂ : 97 O ₂ : 80 N ₂ : 40	Sterilize by EtO or autoclave.
Tygon® Chemical (2001) 06475-series 	Best chemical resistance of any Tygon® formulation. Compatible with many polar solvents. Plasticizer-free. Clear for easy flow monitoring. Low extractability. Low gas permeability. High dielectric constant. Transparent, clear.	E	E	G	G	G	E	G	FDA 21 CFR 175.300 REACH (non-DEHP) compliant RoHS compliant ADFC compliant	CO ₂ : 114 H ₂ : — O ₂ : 19 N ₂ : 9	Sterilize by EtO, autoclave, or gamma irradiation.
Tygon® Fuel & Lubricant (F-4040-A) 06401-series 	Specially formulated to transport hydrocarbons, petroleum products, and distillates. Suitable for gasoline, kerosene, heating oils, cutting fluids, and glycol-based coolants. Minimum extractability. Low gas permeability. High dielectric constant. Transparent, yellow.	G	G	N/R	G	G	E	P	REACH (non-DEHP) compliant RoHS compliant ADFC compliant	CO ₂ : 100 H ₂ : 97 O ₂ : 22 N ₂ : 12	Sterilization is not recommended.
Norprene® (A 60 G) 06404-series 	Best choice for vacuum/pressure applications. Offers longest pump tubing life. Heat, ambient ozone resistant. Good resistance to acids/alkalies. Black color hides dirt and dust. Heat sealable, nonaging, and nonoxidizing. High dielectric constant. High-pressure version available. Opaque, black.	G	G	N/R	E	E	E	N/R	NSF-51 REACH (non-DEHP) compliant RoHS compliant	CO ₂ : 1200 H ₂ : — O ₂ : 200 N ₂ : 80	Sterilize by EtO, autoclave, or gamma irradiation.
Norprene® Food (A 60 F) 06402-series 	Similar to Norprene® but with FDA approval. Excellent for food/dairy applications. Longest life, good flow consistency. Heat and ozone resistant. Good resistance to acids/alkalies. Heat sealable, nonaging, and nonoxidizing. High dielectric constant. Opaque, beige.	G	G	N/R	E	E	E	G	FDA 21 CFR 177.2600 NSF-51 REACH (non-DEHP) compliant RoHS compliant	CO ₂ : 1200 H ₂ : — O ₂ : 200 N ₂ : 80	Sterilize by EtO, autoclave, or gamma irradiation.
Viton® 96412-series 	Perfect for food and lab applications where FDA compliance is required. Excellent chemical resistance. Resistant to corrosives, solvents, and oils at elevated temperatures. Low gas permeability. Opaque, black.	E	E	Variable—test before using	G	G	G	F	FDA 21 CFR 177.2600 ADFC compliant	CO ₂ : 76 to 79 H ₂ : — O ₂ : 13 to 15 N ₂ : 4.3	Sterilization is not recommended.

†E = Excellent, G = Good, F = Fair, P = Poor, N/R = not recommended

L/S® Precision Pump Tubing

Ensure optimal performance from your Masterflex pump

- Custom extruded to fit Masterflex pumps
- Engineered for long life in peristaltic pump applications

– Custom extruded to fit Masterflex pumps			Tubing size	L/S 13	L/S 14	L/S 16	L/S 25	L/S 17	L/S 18
– Engineered for long life in peristaltic pump applications			Inner diameter	0.8 mm (0.03")	1.6 mm (0.06")	3.1 mm (0.12")	4.8 mm (0.19")	6.4 mm (0.25")	7.9 mm (0.31")
			Hose barb size	1.6 mm (1/16")	1.6 mm (1/16")	3.2 mm (1/8")	4.8 mm (3/16")	6.4 mm (1/4")	9.5 mm (3/8")
			Flow range (approximate)†	0.06 to 36 mL/min	0.21 to 130 mL/min	0.8 to 480 mL/min	1.7 to 1000 mL/min	2.8 to 1700 mL/min	3.8 to 2300 mL/min
Pump tubing formulation	Description	Compatible pump head							
Silicone (platinum-cured) 	– Complies with USP Class V, EP, FDA, REACH, RoHS, ADCF – Low protein binding, fungus resistant, phthalate and latex-free – Accommodates a wide temperature range	✓ Standard ✓ Easy-Load® ✓ Easy-Load II ✓ Easy-Load 3 ✓ Multichannel cartridge	GY-96410-13	GY-96410-14	GY-96410-16	GY-96410-25	GY-96410-17	GY-96410-18	
			7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk
Silicone (peroxide-cured) 	– Complies with USP Class VI, EP, FDA, 3A, REACH, RoHS, ADCF – Greater physical compression capability – Economical, longer tubing life	✓ Standard ✓ Easy-Load ✓ Easy-Load II ✓ Easy-Load 3 ✓ Multichannel cartridge	GY-96400-13	GY-96400-14	GY-96400-16	GY-96400-25	GY-96400-17	GY-96400-18	
			7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk
BioPharm Silicone (platinum-cured) 	– Complies with USP Class VI, EP, FDA, 3A, REACH, RoHS, ADCF – Low absorption; excellent biocompatibility – Very low extractable; weather, ozone, corona, radiation resistant	✓ Standard ✓ Easy-Load ✓ Easy-Load II ✓ Easy-Load 3 ✓ Multichannel cartridge	GY-96420-13	GY-96420-14	GY-96420-16	GY-96420-25	GY-96420-17	GY-96420-18	
			7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk
BioPharm Plus Silicone (platinum-cured) 	– Complies with USP Class VI, EP, FDA, REACH, RoHS, ADCF – Ultra-smooth—minimizes particle entrapment – Very low extractable—ideal for lab, biotech, and pharmaceutical applications	✓ Standard ✓ Easy-Load ✓ Easy-Load II ✓ Easy-Load 3 ✓ Multichannel cartridge	GY-96440-13	GY-96440-14	GY-96440-16	GY-96440-25	GY-96440-17	GY-96440-18	
			7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk
Puri-Flex™ 	– Complies with USP Class VI, FDA, 3A, REACH, RoHS, ADCF – Heat sealable, weldable, and economical – Long pump life when compared to silicone or many other TPE tubings	✓ Standard ✓ Easy-Load ✓ Easy-Load II ✓ Easy-Load 3 ✓ Multichannel cartridge	GY-96419-13	GY-96419-14	GY-96419-16	GY-96419-25	GY-96419-17	GY-96419-18	
			7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk
C-Flex® 	– Complies with USP Class VI, EP, REACH, RoHS, ADCF – Heat sealable, weldable, economical – Better resistance to pH fluctuations	✓ Standard ✓ Easy-Load ✓ Easy-Load II ✓ Easy-Load 3 ✓ Multichannel cartridge	GY-06424-13	GY-06424-14	GY-06424-16	GY-06424-25	GY-06424-17	GY-06424-18	
			7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk
C-Flex® ULTRA 	– Complies with USP Class VI, EP, REACH, RoHS, ADCF – Longest life of any C-Flex formulation – Lowest spallation and reduced residue	✓ Standard ✓ Easy-Load ✓ Easy-Load II ✓ Easy-Load 3 ✓ Multichannel cartridge	—	GY-06434-14	GY-06434-16	GY-06434-25	GY-06434-17	GY-06434-18	
			—	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk
PharMed® BPT 	– Complies with USP Class VI, EP, FDA, NSF, REACH, RoHS – >10,000 hours of tubing life; sealable, weldable – Ideal for tissue and cell culture work	✓ Standard ✓ Easy-Load ✓ Easy-Load II ✓ Easy-Load 3 ✓ Multichannel cartridge	GY-06508-13	GY-06508-14	GY-06508-16	GY-06508-25	GY-06508-17	GY-06508-18	
			7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk
PharmaPure® 	– Complies with USP Class VI, EP, FDA, REACH, RoHS – Nontoxic and nonhemolytic biocompatible – Long life even under pressure with VERY low spallation	✓ Easy-Load ✓ Easy-Load II	GY-06435-13	GY-06435-14	GY-06435-16	GY-06435-25	GY-06435-17	GY-06435-18	
			7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk

†Determined under the following conditions: Using a 1 to 600 rpm drive; 0 psi at inlet, 0.5 psi at outlet; water temperature at 22°C (72°F).

Benchtop Tubing Cutter

Steel blade makes right-angle cuts in several sizes of Masterflex tubing:

C/L® 2.06 mm, 2.79 mm OD
L/S® sizes 13, 14, 15, 16, 17, 18, 24, 25, 35, 36
I/P® sizes 26, 73

[GY-06438-10](#) Benchtop tubing cutter



Tubing size	L/S 13	L/S 14	L/S 16	L/S 25	L/S 17	L/S 18
Inner diameter	0.8 mm (0.03")	1.6 mm (0.06")	3.1 mm (0.12")	4.8 mm (0.19")	6.4 mm (0.25")	7.9 mm (0.31")
Hose barb size	1.6 mm (1/16")	1.6 mm (1/16")	3.2 mm (1/8")	4.8 mm (3/16")	6.4 mm (1/4")	9.5 mm (3/8")
Flow range (approximate)†	0.06 to 36 mL/min	0.21 to 130 mL/min	0.8 to 480 mL/min	1.7 to 1000 mL/min	2.8 to 1700 mL/min	3.8 to 2300 mL/min

Pump tubing formulation	Description	Compatible pump head						
Chem-Durance® Bio	- Complies: USP Class VI, FDA, REACH, RoHS - Excellent chemical compatibility and biocompatibility - Excellent pump life and durability under pressure	✓ Easy-Load ✓ Easy-Load II	GY-06442-13	GY-06442-14	GY-06442-16	GY-06442-25	GY-06442-17	GY-06442-18
Solve-Flex®	- Complies with USP Class VI - Excellent chemical resistance, especially with solvents - Low spallation - Fluoropolymer lined tubing	✓ Easy-Load ✓ Easy-Load II	—	—	—	—	GY-96446-17	—
Tygon® E-LFL	- Complies with USP Class VI, EP, FDA, EU Food, REACH, RoHS, ADCF - Longest life of all Tygon formulations - Broad chemical resistance	✓ Standard ✓ Easy-Load ✓ Easy-Load II ✓ Easy-Load 3 ✓ Multichannel cartridge	GY-06440-13	GY-06440-14	GY-06440-16	GY-06440-25	GY-06440-17	GY-06440-18
Tygon E-Food (B-44-4X)	- Complies with FDA, EU Food, NSF, 3A, REACH, RoHS, ADCF - Smooth inner surface unaffected by commercial sanitizers - Nontoxic; will not affect taste or odor	✓ Standard ✓ Easy-Load ✓ Easy-Load II ✓ Easy-Load 3 ✓ Multichannel cartridge	GY-06418-13	GY-06418-14	GY-06418-16	GY-06418-25	GY-06418-17	GY-06418-18
Tygon E-Lab (E-3603)	- Complies with USP Class VI, FDA, EU Food, NSF, REACH, RoHS, ADCF - Ideal for general transfer applications - Nonaging, nonoxidizing, low gas permeability	✓ Standard ✓ Easy-Load ✓ Easy-Load II ✓ Easy-Load 3 ✓ Multichannel cartridge	GY-06509-13	GY-06509-14	GY-06509-16	GY-06509-25	GY-06509-17	GY-06509-18
Tygon Fuel & Lubricant (F-4040-A)	- Complies with REACH, RoHS, ADCF - Specially formulated to transport hydrocarbons, petroleum products, and distillates - Low gas permeability	✓ Standard ✓ Easy-Load ✓ Easy-Load II ✓ Easy-Load 3 ✓ Multichannel cartridge	GY-06401-13	GY-06401-14	GY-06401-16	GY-06401-25	GY-06401-17	GY-06401-18
Tygon Chemical (2001)	- Complies with FDA 21 CFR 175.300, REACH, RoHS, ADCF - Best chemical resistance of Tygon formulations - Plasticizer-free with low gas permeability	✓ Easy-Load ✓ Easy-Load II	GY-06475-13	GY-06475-14	GY-06475-16	GY-06475-25	GY-06475-17	GY-06475-18
Norprene® (A-60 G)	- Complies with NSF, REACH, RoHS - Up to 10,000 hours of tubing life - Excellent choice for pressure/vacuum applications	✓ Standard ✓ Easy-Load ✓ Easy-Load II ✓ Easy-Load 3 ✓ Multichannel cartridge	GY-06404-13	GY-06404-14	GY-06404-16	GY-06404-25	GY-06404-17	GY-06404-18
Norprene Food (A 60 F)	- Complies with FDA, 3A, NSF, REACH, RoHS - Ideal for high-temperature food applications - Resists heat, ozone, acids, and alkalis	✓ Standard ✓ Easy-Load ✓ Easy-Load II ✓ Easy-Load 3 ✓ Multichannel cartridge	GY-06402-13	GY-06402-14	GY-06402-16	GY-06402-25	GY-06402-17	GY-06402-18
Viton®	- Complies with FDA, ADCF - Perfect for applications where FDA and chemical compatibility is needed - Resists corrosives, solvents, and oils at elevated temperatures	✓ Standard ✓ Easy-Load ✓ Easy-Load II ✓ Easy-Load 3 ✓ Multichannel cartridge	GY-96412-13	GY-96412-14	GY-96412-16	GY-96412-25	GY-96412-17	GY-96412-18

L/S® High-Performance Precision Pump Tubing

Thicker wall compared to our Precision pump tubing

- Best choice for applications involving pressure, suction lift, viscous fluids, or long tubing life

– Best choice for applications involving pressure, suction lift, viscous fluids, or long tubing life			Tubing size	L/S 15	L/S 24	L/S 35	L/S 36
			Inner diameter	4.8 mm (0.19")	6.4 mm (0.25")	7.9 mm (0.31")	9.7 mm (0.38")
			Hose barb size	4.8 mm (3/16")	6.4 mm (1/4")	9.5 mm (3/8")	9.5 mm (3/8")
			Flow range (approximate)†	1.7 to 1000 mL/min (1.8 to 1100 mL/min)	2.8 to 1700 mL/min (3.0 to 1800 mL/min)	3.8 to 2300 mL/min (4.3 to 2600 mL/min)	4.8 to 2900 mL/min (5.8 to 3400 mL/min)
Pump tubing formulation	Description	Compatible pump head					
Silicone (platinum-cured)	– Complies with USP Class V, EP, FDA, REACH, RoHS, ADFC – Low protein binding, fungus resistant, phthalate and latex-free – Accommodates a wide temperature range	✓ Standard ✓ Easy-Load ✓ Easy-Load II ✓ Easy-Load 3 ✓ High-Performance	GY-96410-15	GY-96410-24	GY-96410-35	GY-96410-36	
			7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	
Silicone (peroxide-cured)	– Complies with USP Class VI, EP, FDA, 3A, REACH, RoHS, ADFC – Greater physical compression capability – Economical, longer tubing life	✓ Standard ✓ Easy-Load ✓ Easy-Load II ✓ Easy-Load 3 ✓ High-Performance	GY-96400-15	GY-96400-24	GY-96400-35	GY-96400-36	
			7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	
BioPharm Silicone (platinum-cured)	– Complies with USP Class VI, EP, FDA, 3A, REACH, RoHS, ADFC – Low absorption; excellent biocompatibility – Very low extractable; weather, ozone, corona, radiation resistant	✓ Standard ✓ Easy-Load ✓ Easy-Load II ✓ Easy-Load 3 ✓ High-Performance	GY-96420-15	GY-96420-24	GY-96420-35	GY-96420-36	
			7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	
BioPharm Plus Silicone (platinum-cured)	– Complies with USP Class VI, EP, FDA, REACH, RoHS, ADFC – Ultra-smooth—minimizes particle entrapment – Very low extractable—ideal for lab, biotech, and pharmaceutical applications	✓ Standard ✓ Easy-Load ✓ Easy-Load II ✓ Easy-Load 3 ✓ High-Performance	GY-96440-15	GY-96440-24	GY-96440-35	GY-96440-36	
			7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	
Puri-Flex™	– Complies with USP Class VI, FDA, 3A, REACH, RoHS, ADFC – Heat sealable, weldable, and economical – Long pump life when compared to silicone or many other TPE tubings	✓ Standard ✓ Easy-Load ✓ Easy-Load II ✓ Easy-Load 3 ✓ High-Performance	GY-96419-15	GY-96419-24	GY-96419-35	GY-96419-36	
			7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	
C-Flex®	– Complies with USP Class VI, EP, REACH, RoHS, ADFC – Heat sealable, weldable, economical – Better resistance to pH fluctuations	✓ Standard ✓ Easy-Load ✓ Easy-Load II ✓ Easy-Load 3 ✓ High-Performance	GY-06424-15	GY-06424-24	GY-06424-35	GY-06424-36	
			7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	
C-Flex® ULTRA 	– Complies with USP Class VI, EP, REACH, RoHS, ADFC – Longest life of any C-Flex formulation – Lowest spallation and reduced residue	✓ Standard ✓ Easy-Load ✓ Easy-Load II ✓ Easy-Load 3 ✓ High-Performance	GY-06434-15	GY-06434-24	GY-06434-35	GY-06434-36	
			7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	
PharMed® BPT	– Complies with USP Class VI, EP, FDA, NSF, REACH, RoHS – >10,000 hours of tubing life; sealable, weldable – Ideal for tissue and cell culture work	✓ Standard ✓ Easy-Load ✓ Easy-Load II ✓ Easy-Load 3 ✓ High-Performance	GY-06508-15	GY-06508-24	GY-06508-35	GY-06508-36	
			7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	
PharmaPure®	– Complies with USP Class VI, EP, FDA, REACH, RoHS – Nontoxic and nonhemolytic biocompatible – Long life even under pressure with VERY low spallation	✓ Easy-Load ✓ Easy-Load II	GY-06435-15	GY-06435-24	—	—	
			7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	—	—	

†Value in () obtained by High-Performance pump head. Flow range determined under the following conditions: Using a 1 to 600 rpm drive; 0 psi at inlet, 0.5 psi at outlet; water temperature at 22°C (72°F).

Wait! Don't Forget...

See our selection of fittings to complete your connection. Go to **pages 301-342** for more information.



Pump tubing formulation	Description	Compatible pump head	Tubing size	L/S 15	L/S 24	L/S 35	L/S 36
			Inner diameter	4.8 mm (0.19")	6.4 mm (0.25")	7.9 mm (0.31")	9.7 mm (0.38")
			Hose barb size	4.8 mm (3/16")	6.4 mm (1/4")	9.5 mm (3/8")	9.5 mm (3/8")
			Flow range (approximate)†	1.7 to 1000 mL/min (1.8 to 1100 mL/min)	2.8 to 1700 mL/min (3.0 to 1800 mL/min)	3.8 to 2300 mL/min (4.3 to 2600 mL/min)	4.8 to 2900 mL/min (5.8 to 3400 mL/min)
Chem-Durance® Bio	- Complies: USP Class VI, FDA, REACH, RoHS - Excellent chemical compatibility and biocompatibility - Excellent pump life and durability under pressure	✓ Easy-Load ✓ Easy-Load II		GY-06442-15	GY-06442-24	GY-06442-35	GY-06442-36
				15.2 m (50 ft)/pk	15.2 m (50 ft)/pk	15.2 m (50 ft)/pk	15.2 m (50 ft)/pk
Solve-Flex®	- Complies with USP Class VI - Excellent chemical resistance, especially with solvents - Low spallation - Fluoropolymer lined tubing	✓ Easy-Load ✓ Easy-Load II		GY-96446-24			
				3.6 m (12 ft)/pk			
Tygon® E-LFL	- Complies with USP Class VI, EP, FDA, REACH, RoHS, AECF - Longest life of all Tygon formulations - Broad chemical resistance	✓ Standard ✓ Easy-Load ✓ Easy-Load II ✓ Easy-Load 3 ✓ High-Performance		GY-06440-15	GY-06440-24	GY-06440-35	GY-06440-36
				7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk
Tygon E-Food (B-44-4X)	- Complies with FDA, NSF, 3A, and EU Food regulations (10/2011) - Smooth inner surface unaffected by common commercial sanitizers - Nontoxic	✓ Standard ✓ Easy-Load ✓ Easy-Load II ✓ Easy-Load 3 ✓ High-Performance		GY-06418-15	GY-06418-24	GY-06418-35	GY-06418-36
				15.2 m (50 ft)/pk	15.2 m (50 ft)/pk	15.2 m (50 ft)/pk	15.2 m (50 ft)/pk
Tygon E-Lab (E-3603)	- Complies with USP Class V, EP, FDA, REACH, RoHS, AECF - Ideal for general transfer applications - Clear for easy monitoring - Nontoxic, nonaging, nonoxidizing	✓ Standard ✓ Easy-Load ✓ Easy-Load II ✓ Easy-Load 3 ✓ High-Performance		GY-06509-15	GY-06509-24	GY-06509-35	GY-06509-36
				15.2 m (50 ft)/pk	15.2 m (50 ft)/pk	15.2 m (50 ft)/pk	15.2 m (50 ft)/pk
Tygon Fuel & Lubricant (F-4040-A)	- Complies with USP Class V, EP, FDA, REACH, RoHS, AECF - Ideal for transferring hydrocarbons, gasoline, kerosene, and heating oil - Very low gas permeability	✓ Standard ✓ Easy-Load ✓ Easy-Load II ✓ Easy-Load 3 ✓ High-Performance		GY-06401-15	GY-06401-24	GY-06401-35	GY-06401-36
				15.2 m (50 ft)/pk	15.2 m (50 ft)/pk	15.2 m (50 ft)/pk	15.2 m (50 ft)/pk
Tygon Chemical (2001)	- Complies with USP Class V, EP, FDA, REACH, RoHS, AECF - Best chemical resistance of Tygon formulations - Plasticizer-free with low gas permeability	✓ Easy-Load ✓ Easy-Load II		GY-06475-15	GY-06475-24	—	—
				15.2 m (50 ft)/pk	15.2 m (50 ft)/pk	—	—
Norprene® (A-60 G)	- Complies with NSF, REACH, RoHS - Up to 10,000 hours of tubing life - Excellent choice for pressure/vacuum applications	✓ Standard ✓ Easy-Load ✓ Easy-Load II ✓ Easy-Load 3 ✓ High-Performance		GY-06404-15	GY-06404-24	GY-06404-35	GY-06404-36
				15.2 m (50 ft)/pk	15.2 m (50 ft)/pk	15.2 m (50 ft)/pk	15.2 m (50 ft)/pk
Norprene Food (A 60 F)	- Complies with FDA, 3A, NSF, REACH, RoHS - Ideal for high-temperature food applications - Resists heat, ozone, acids, and alkalis	✓ Standard ✓ Easy-Load ✓ Easy-Load II ✓ Easy-Load 3 ✓ High-Performance		GY-06402-15	GY-06402-24	GY-06402-35	GY-06402-36
				15.2 m (50 ft)/pk	15.2 m (50 ft)/pk	15.2 m (50 ft)/pk	15.2 m (50 ft)/pk
Viton®	- Complies with FDA, AECF - Perfect for applications where FDA and chemical compatibility is needed - Resists corrosives, solvents, and oils at elevated temperatures	✓ Standard ✓ Easy-Load ✓ Easy-Load II ✓ Easy-Load 3 ✓ High-Performance		GY-96412-15	GY-96412-24	GY-96412-35	GY-96412-36
				7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk

I/P® Precision Pump Tubing

Engineered for long life in peristaltic pumps

- Ensure optimal Masterflex® pump performance
- Custom extruded to fit Masterflex pumps
- Lot-to-lot consistency for superior accuracy and repeatability

Tubing size	I/P 26	I/P 73	I/P 82
Inner diameter	6.4 mm (0.25")	9.5 mm (0.37")	12.7 mm (0.5")
Hose barb size	6.4 mm (¼")	9.5 mm (⅜")	12.7 mm (½")
Flow range (approximate) [†]	0.01 to 4 LPM 0.002 to 1.1 GPM	0.01 to 8 LPM 0.002 to 2.1 GPM	0.02 to 13 LPM 0.005 to 3.5 GPM

Pump tubing formulation	Description	Compatible pump head			
Silicone (platinum-cured)	– Complies with USP Class V, EP, FDA, REACH, RoHS, ADF – Fungus-resistant; phthalate- and latex-free – Accommodates a wide temperature range	✓ Standard ✓ Easy-Load®	GY-96410-26	GY-96410-73	GY-96410-82
			7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk
Silicone (peroxide-cured)	– Complies with USP Class VI, EP, FDA, 3A, REACH, RoHS, ADF – Greater physical compression capability – Economical, longer tubing life	✓ Standard ✓ Easy-Load	GY-96400-26	GY-96400-73	GY-96400-82
			7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk
BioPharm Silicone (platinum-cured)	– Complies with USP Class VI, EP, FDA, 3A, REACH, RoHS, ADF – Lower absorption; excellent biocompatibility – Very low extractable and weather, ozone, corona, radiation resistant	✓ Standard ✓ Easy-Load	GY-96420-26	GY-96420-73	GY-96420-82
			7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk
BioPharm Plus Silicone (platinum-cured)	– Complies with USP Class VI, EP, FDA, 3A, REACH, RoHS, ADF – Ultra-smooth—minimizes particle entrapment – Very low extractable—ideal for lab, biotech pharma applications	✓ Standard ✓ Easy-Load	GY-96440-26	GY-96440-73	GY-96440-82
			7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk
Puri-Flex™	– Complies with USP Class VI, EP, REACH, RoHS, ADF – Heat sealable, weldable, and economical – Long pump life when compared to silicone or many other TPE tubings	✓ Standard ✓ Easy-Load	GY-96419-26	GY-96419-73	GY-96419-82
			7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk
C-Flex®	– Complies with USP Class VI, EP, REACH, RoHS, ADF – Heat sealable, weldable, economical – Better resistance to pH fluctuations	✓ Standard ✓ Easy-Load	GY-06424-26	GY-06424-73	GY-06424-82
			7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk
C-Flex® ULTRA	– Complies with USP Class VI, EP, REACH, RoHS, ADF – Longest life of any C-Flex formulation – Lowest spallation and reduced residue	✓ Standard ✓ Easy-Load	GY-06434-26	GY-06434-73	GY-06434-82
			7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk
PharMed® BPT	– Complies: USP Class VI, EP, FDA, NSF, REACH, RoHS – Over 10,000 hours of tubing life, sealable, weldable – Ideal for tissue and cell culture work	✓ Standard ✓ Easy-Load	GY-06508-26	GY-06508-73	GY-06508-82
			7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk
PharmaPure®	– Complies with USP Class VI, EP, FDA, REACH, RoHS – Nontoxic and nonhemolytic biocompatible – Long life even under pressure with VERY low spallation		GY-06435-26	GY-06435-73	GY-06435-82
			7.6 m (25 ft)/pk	7.6 m (25 ft)/pk	7.6 m (25 ft)/pk
Chem-Durance® Bio	– Complies: USP Class VI, FDA, REACH, RoHS – Excellent chemical compatibility and biocompatibility – Excellent pump life, durable under pressure	✓ Easy-Load	GY-06442-26	GY-06442-73	GY-06442-82
			15.2 m (50 ft)/pk	15.2 m (50 ft)/pk	15.2 m (50 ft)/pk

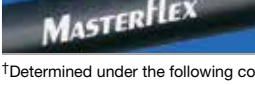
Benchtop Tubing Cutter

Steel blade makes right-angle cuts in several sizes of Masterflex tubing:

C/L® 2.06 mm, 2.79 mm OD
L/S® sizes 13, 14, 15, 16, 17, 18, 24, 25, 35, 36
I/P® sizes 26, 73

[GY-06438-10](#) Benchtop tubing cutter



Tubing size		I/P 26	I/P 73	I/P 82
Inner diameter		6.4 mm (0.25")	9.5 mm (0.37")	12.7 mm (0.5")
Hose barb size		6.4 mm (¼")	9.5 mm (¾")	12.7 mm (½")
Flow range (approximate)†		0.01 to 4 LPM 0.002 to 1.1 GPM	0.01 to 8 LPM 0.002 to 2.1 GPM	0.02 to 13 LPM 0.005 to 3.5 GPM
Pump tubing formulation	Description	Compatible pump head		
Tygon® E-LFL 	- Complies with USP Class VI, EP, FDA, EU Food, REACH, RoHS, ABCF - Longest life of all Tygon formulations - Broad chemical resistance	✓ Standard ✓ Easy-Load®	GY-06440-26	GY-06440-73
			7.6 m (25 ft)/pk	7.6 m (25 ft)/pk
Tygon E-Food (B-44-4X) 	- Complies with FDA, EU Food, NSF, 3A, REACH, RoHS, ABCF - Smooth inner surface unaffected by commercial sanitizers - Nontoxic, will not affect taste or odor	✓ Easy-Load	GY-06418-26	GY-06418-73
			15.2 m (50 ft)/pk	15.2 m (50 ft)/pk
Tygon E-Lab (E-3603) 	- Complies with USP Class VI, FDA, EU Food, NSF, REACH, RoHS, ABCF - Ideal for general transfer applications - Nonaging, nonoxidizing, low gas permeability	✓ Standard ✓ Easy-Load	GY-06509-26	GY-06509-73
			15.2 m (50 ft)/pk	15.2 m (50 ft)/pk
Tygon Fuel & Lubricant (F-4040-A) 	- Complies with REACH, RoHS, ABCF - Specially formulated to transport hydrocarbons, petroleum products, distillates - Very low gas permeability	✓ Easy-Load	—	GY-06401-73
			—	15.2 m (50 ft)/pk
Tygon Chemical (2001) 	- Complies with FDA 21 CFR 175.300, REACH, RoHS, ABCF - Best chemical resistance of any Tygon formulation - Plasticizer-free and low gas permeability	✓ Easy-Load	GY-06475-26	GY-06475-73
			15.2 m (50 ft)/pk	15.2 m (50 ft)/pk
Norprene® (A-60 G) 	- Complies with NSF, REACH, RoHS - Up to 10,000 hours of tubing life - Best choice for pressure/vacuum applications	✓ Standard ✓ Easy-Load	GY-06404-26	GY-06404-73
			15.2 m (50 ft)/pk	15.2 m (50 ft)/pk
Norprene Food (A 60 F) 	- Complies with FDA, 3A, NSF, REACH, RoHS - Ideal for high-temperature food applications - Resists heat, ozone, acids, and alkalis	✓ Standard ✓ Easy-Load	GY-06402-26	GY-06402-73
			15.2 m (50 ft)/pk	15.2 m (50 ft)/pk
Viton® 	- Complies with FDA, ABCF - Perfect where FDA and chemical compatibility are needed - Resists corrosives, solvents, and oils at elevated temperatures	✓ Standard ✓ Easy-Load	GY-96412-26	GY-96412-73
			7.6 m (25 ft)/pk	7.6 m (25 ft)/pk

†Determined under the following conditions: Using a 1 to 650 rpm drive; 0 psi at inlet, 0.5 psi at outlet; water temperature at 22°C (72°F).

Overlook Filler/Dispensing Nozzles

- Maximize the speed, precision, and accuracy of dispensing and filling applications
- Minimize splashing and dripping when dispensing into narrow- or wide-mouth containers
- Dimensional tolerances of ±0.05% for assured repeatability

Tubing ID	Catalog number	Price
1/32"	GY-30619-06	
1/16"	GY-30619-01	
1/8"	GY-30619-07	
3/16"	GY-30619-02	
1/4"	GY-30619-08	
5/16"	GY-30619-03	
3/8"	GY-30619-09	
1/2"	GY-30619-04	
5/8"	GY-30619-10	
3/4"	GY-30619-05	

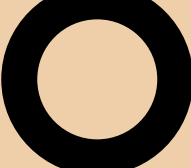
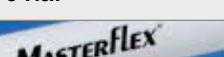
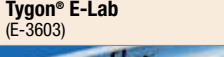


I/P® High-Performance Precision Pump Tubing

Thicker wall compared to our
Precision pump tubing

- Best choice for applications involving pressure, suction lift, viscous fluids, or long tubing life

Tubing size	I/P 70	I/P 88	I/P 89
Inner diameter	9.5 mm (0.37")	12.7 mm (0.5")	15.88 mm (0.62")
Hose barb size	9.5 mm (3/8")	12.7 mm (1/2")	15.88 mm (5/8")
Flow range (approximate) [†]	0.01 to 8 LPM 0.002 to 2.1 GPM	0.02 to 17 LPM 0.005 to 4.5 GPM	0.03 to 19 LPM 0.007 to 5.0 GPM

Pump tubing formulation	Description	Compatible pump head			
Silicone (platinum-cured) 	- Complies: USP Class V, EP, FDA, REACH, RoHS, ADFC - Fungus-resistant; phthalate- and latex-free - Accommodates a wide temperature range	✓ High-Performance	GY-96510-70	GY-96510-88	GY-96510-89
BioPharm Silicone (platinum-cured) 	- Complies with USP Class VI, EP, FDA, 3A, REACH, RoHS, ADFC - Lower absorption; excellent biocompatibility	✓ High-Performance	GY-96421-70	GY-96421-88	GY-96421-89
BioPharm Plus Silicone (platinum-cured) 	- Complies: USP Class VI, EP, FDA, 3A, REACH, RoHS, ADFC - Ultra-smooth—minimizes particle entrapment	✓ High-Performance	GY-96441-70	GY-96441-88	GY-96441-89
Puri-Flex™ 	- Complies: USP Class VI, FDA, REACH, RoHS, ADFC - Heat sealable, weldable, and economical - Long pump life when compared to silicone	✓ High-Performance	GY-96419-70	GY-96419-88	GY-96419-89
C-Flex® 	- Complies: USP Class VI, EP, REACH, RoHS, ADFC - Heat sealable, weldable, economical - Better resistance to pH fluctuations	✓ High-Performance	GY-06424-70	GY-06424-88	GY-06424-89
PharMed® BPT 	- Complies: USP Class VI, EP, FDA, NSF, REACH, RoHS >10,000 hours of tubing life, sealable, weldable - Ideal for tissue and cell culture work	✓ High-Performance	GY-06508-70	GY-06508-88	—
Chem-Durance® Bio 	- Complies: USP Class VI, FDA, REACH, RoHS - Excellent biocompatibility, chemical compatibility - Excellent pump life, durable under pressure	✓ High-Performance	GY-06442-70	GY-06442-88	GY-06442-89
Tygon® E-LFL 	- Complies with USP Class VI, EP, FDA, EU Food, REACH, RoHS, ABCF - Longest life of all Tygon formulations	✓ High-Performance	GY-06440-70	GY-06440-88	GY-06440-89
Tygon® E-Food (B-44-4X) 	- Complies: FDA, EU Food, NSF, 3A, REACH, RoHS, ABCF - Smooth inner surface unaffected by commercial sanitizers; will not affect taste or odor	✓ High-Performance	GY-06418-70	GY-06418-88	GY-06418-89
Tygon® E-Lab (E-3603) 	- Complies with USP Class VI, FDA, EU Food, NSF, REACH, RoHS, ABCF - Ideal for general transfer applications; nonaging, nonoxidizing, low gas permeability	✓ High-Performance	GY-06509-70	GY-06509-88	GY-06509-89
Norprene® (A-60 G) 	- Complies with NSF, REACH, RoHS - Up to 10,000 hours of tubing life - Best choice for pressure/vacuum applications	✓ High-Performance	GY-06404-70	GY-06404-88	GY-06404-89
Norprene Food (A-60 F) 	- Complies with FDA, 3A, NSF, REACH, RoHS - Ideal for high-temperature food applications - Resists heat, ozone, acids, and alkalis	✓ High-Performance	—	GY-06402-88	GY-06402-89

[†]Determined under the following conditions: Using a 1 to 650 rpm drive; 0 psi at inlet, 0.5 psi at outlet; water temperature at 22°C (72°F).

B/T® PerfectPosition™ Pump Tubing

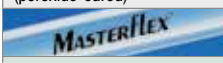
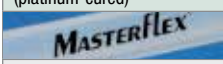
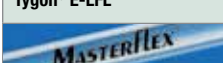
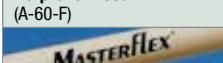
Position more easily—retention marks indicate exact placement

- 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	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)

Pump tubing formulation	Description		
Silicone (platinum-cured)	- Complies with USP Class V, EP, FDA, REACH, RoHS, ADFC - Low protein binding, fungus-resistant, phthalate and latex free - Accommodates a wide temperature range	GY-96510-87	GY-96510-91
		3 m (10 ft)/pk	3 m (10 ft)/pk
Silicone (peroxide-cured)	- Complies with USP Class VI, EP, FDA, 3A, REACH, RoHS, ADFC - Greater physical compression capability - Economical, long life	GY-96400-87	GY-96400-91
		3 m (10 ft)/pk	3 m (10 ft)/pk
BioPharm Plus Silicone (platinum-cured)	- Complies with USP Class VI, EP, FDA, 3A, REACH, RoHS, ADFC - Ultra-smooth inner surface minimizes particle entrapment - Very low extractable—ideal for lab, biotech pharma applications	GY-96445-87	GY-96445-91
		3 m (10 ft)/pk	3 m (10 ft)/pk
Puri-Flex™	- Complies with USP Class VI, FDA, REACH, RoHS, ADFC - Heat sealable, weldable, and economical - Long pump life compared to silicone or many TPE tubings	GY-96419-87	GY-96419-91
		3 m (10 ft)/pk	3 m (10 ft)/pk
C-Flex®	- Complies: USP Class VI, EP, REACH, RoHS, ADFC - Heat sealable, weldable, economical - Better resistance to pH fluctuations	GY-06424-87	GY-06424-91
		3 m (10 ft)/pk	3 m (10 ft)/pk
PharMed® BPT	- 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	GY-06507-87	GY-06507-91
		3 m (10 ft)/pk	3 m (10 ft)/pk
PharmaPure®	- Complies: USP Class VI, EP, FDA, REACH, RoHS - Nontoxic and nonhemolytic biocompatible - Long life even under pressure with VERY low spallation	GY-06437-87	GY-06437-91
		3 m (10 ft)/pk	3 m (10 ft)/pk
Chem-Durance® Bio	- Complies: USP Class VI, FDA, REACH, RoHS - Excellent chemical compatibility and biocompatibility - Excellent pump life and durability under pressure	GY-06443-87	GY-06443-91
		3 m (10 ft)/pk	3 m (10 ft)/pk
Tygon® E-LFL	- Complies: USP Class VI, EP, FDA, EU Food, REACH, RoHS, ADFC - Longest life of all Tygon formulations - Broad chemical resistance	GY-06440-87	GY-06440-91
		3 m (10 ft)/pk	3 m (10 ft)/pk
Tygon® E-Food (B-44-4X)	- Complies with FDA, EU Food, NSF-51, 3A, REACH, RoHS, ADFC - Smooth inner surface unaffected by commercial sanitizers - Nontoxic, will not affect taste or odor	GY-06418-87	GY-06418-91
		3 m (10 ft)/pk	3 m (10 ft)/pk
Norprene® Food (A-60-F)	- Complies with FDA, 3A, NSF-51, REACH, RoHS - Ideal for high-temperature food applications - Resists heat, ozone, acids, and alkalis	GY-06399-87	GY-06399-91
		3 m (10 ft)/pk	3 m (10 ft)/pk

†Determined under the following conditions: Using a 11 to 321 rpm drive; 0 bar (0 psi) at inlet, 0.03 bar (0.5) psi at outlet; water temperature at 22°C (72°F).