

MASTERFLEX® L/S® pump tubing

Grayledge Pump & Industrial

Ph: 603.635.3701







Fax: 866.373-8490

Web: www.GrayledgePump.com

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- Manufactured to tight tolerances of Masterflex® pump heads to ensure accurate flow rates and long tubing life
- Optically inspected and factory tested—ensures clean, defect-free tubing that performs to specifications
- Fourteen pump tubing formulations are available, each with different chemical compatibility properties, agency approvals, and performance characteristics.
- Norprene®, PharMed® and Tygon® formulations are the firmest we offer; C-FLEX® and silicone are the softest.
- Firm tubing has longer life, better pressure generation, stronger vacuum/suction lift, and lower gas permeability than soft tubing
- For chemical resistance charts, tubing material, and performance information, request the Masterflex® Technical Data Book.

Specifications

Pump tubing cross sections	Masterflex® L/S® Precision pump tubing sizes					
						
	L/S® 13	L/S® 14	L/S® 16	L/S® 25	L/S® 17	L/S® 18
Inside diameter (nominal)	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 (nominal)	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)* with 6 to 600 rpm drive	0.36 to 36 mL/min (0.006 to 0.57 GPH)	1.3 to 130 mL/min (0.02 to 2.0 GPH)	4.8 to 480 mL/min (0.08 to 7.6 GPH)	10 to 1000 mL/min (0.16 to 15.8 GPH)	17 to 1700 mL/min (0.27 to 27 GPH)	23 to 2300 mL/min (0.36 to 36.4 GPH)
Maximum pressure,† continuous	1.7 bar (25 psi)	1.7 bar (25 psi)	1.7 bar (25 psi)	1.4 bar (20 psi)	1.0 bar (15 psi)	0.7 bar (10 psi)
Maximum pressure,† intermittent	2.7 bar (40 psi)	2.7 bar (40 psi)	2.7 bar (40 psi)	2.4 bar (35 psi)	1.4 bar (20 psi)	1.0 bar (15 psi)
Maximum vacuum†	660 mm Hg (26" Hg)	660 mm Hg (26" Hg)	660 mm Hg (26" Hg)	660 mm Hg (26" Hg)	510 mm Hg (20" Hg)	510 mm Hg (20" Hg)
Suction lift†	8.8 m H ₂ O (29 ft H ₂ O)	8.8 m H ₂ O (29 ft H ₂ O)	8.8 m H ₂ O (29 ft H ₂ O)	8.8 m H ₂ O (29 ft H ₂ O)	6.7 m H ₂ O (22 ft H ₂ O)	6.7 m H ₂ O (22 ft H ₂ O)

*Flow ranges are approximate—calculated under the following conditions: 0 psig at inlet, 0.5 psig at outlet; water temperature at 22°C (72°F).

†Actual performance varies depending on tubing formulation—values shown are for firm tubing. For CHEM-SURE and STA-PURE tubing specifications, please contact factory.

Tubing formulation	Masterflex® L/S® Precision pump tubing sizes					
	L/S® 13	L/S® 14	L/S® 16	L/S® 25	L/S® 17	L/S® 18
Silicone (platinum-cured)	VA-96410-13 7.6 m (25 ft)/pk	VA-96410-14 7.6 m (25 ft)/pk	VA-96410-16 7.6 m (25 ft)/pk	VA-96410-25 7.6 m (25 ft)/pk	VA-96410-17 7.6 m (25 ft)/pk	VA-96410-18 7.6 m (25 ft)/pk
Silicone (peroxide-cured)	VA-96400-13 7.6 m (25 ft)/pk	VA-96400-14 7.6 m (25 ft)/pk	VA-96400-16 7.6 m (25 ft)/pk	VA-96400-25 7.6 m (25 ft)/pk	VA-96400-17 7.6 m (25 ft)/pk	VA-96400-18 7.6 m (25 ft)/pk
BioPharm Plus silicone (platinum-cured)	VA-96440-13 7.6 m (25 ft)/pk	VA-96440-14 7.6 m (25 ft)/pk	VA-96440-16 7.6 m (25 ft)/pk	VA-96440-25 7.6 m (25 ft)/pk	VA-96440-17 7.6 m (25 ft)/pk	VA-96440-18 7.6 m (25 ft)/pk
C-FLEX® (50 A)	VA-06424-13 7.6 m (25 ft)/pk	VA-06424-14 7.6 m (25 ft)/pk	VA-06424-16 7.6 m (25 ft)/pk	VA-06424-25 7.6 m (25 ft)/pk	VA-06424-17 7.6 m (25 ft)/pk	VA-06424-18 7.6 m (25 ft)/pk
Tygon® LFL	VA-06429-13 7.6 m (25 ft)/pk	VA-06429-14 7.6 m (25 ft)/pk	VA-06429-16 7.6 m (25 ft)/pk	VA-06429-25 7.6 m (25 ft)/pk	VA-06429-17 7.6 m (25 ft)/pk	VA-06429-18 7.6 m (25 ft)/pk
Tygon® food (B-44-4X)	VA-06419-13 15.2 m (50 ft)/pk	VA-06419-14 15.2 m (50 ft)/pk	VA-06419-16 15.2 m (50 ft)/pk	VA-06419-25 15.2 m (50 ft)/pk	VA-06419-17 15.2 m (50 ft)/pk	VA-06419-18 15.2 m (50 ft)/pk
Tygon® lab (R-3603)	VA-06409-13 15.2 m (50 ft)/pk	VA-06409-14 15.2 m (50 ft)/pk	VA-06409-16 15.2 m (50 ft)/pk	VA-06409-25 15.2 m (50 ft)/pk	VA-06409-17 15.2 m (50 ft)/pk	VA-06409-18 15.2 m (50 ft)/pk
Tygon® fuel and lubricant (F-4040-A)	VA-06401-13 15.2 m (50 ft)/pk	VA-06401-14 15.2 m (50 ft)/pk	VA-06401-16 15.2 m (50 ft)/pk	VA-06401-25 15.2 m (50 ft)/pk	VA-06401-17 15.2 m (50 ft)/pk	VA-06401-18 15.2 m (50 ft)/pk
PharMed® (65)	VA-06485-13 7.6 m (25 ft)/pk	VA-06485-14 7.6 m (25 ft)/pk	VA-06485-16 7.6 m (25 ft)/pk	VA-06485-25 7.6 m (25 ft)/pk	VA-06485-17 7.6 m (25 ft)/pk	VA-06485-18 7.6 m (25 ft)/pk
Norprene® (A 60 G)	VA-06404-13 15.2 m (50 ft)/pk	VA-06404-14 15.2 m (50 ft)/pk	VA-06404-16 15.2 m (50 ft)/pk	VA-06404-25 15.2 m (50 ft)/pk	VA-06404-17 15.2 m (50 ft)/pk	VA-06404-18 15.2 m (50 ft)/pk
Norprene® food (A 60 F)	VA-06402-13 15.2 m (50 ft)/pk	VA-06402-14 15.2 m (50 ft)/pk	VA-06402-16 15.2 m (50 ft)/pk	VA-06402-25 15.2 m (50 ft)/pk	VA-06402-17 15.2 m (50 ft)/pk	VA-06402-18 15.2 m (50 ft)/pk
Viton®	VA-06412-13 7.6 m (25 ft)/pk	VA-06412-14 7.6 m (25 ft)/pk	VA-06412-16 7.6 m (25 ft)/pk	VA-06412-25 7.6 m (25 ft)/pk	VA-06412-17 7.6 m (25 ft)/pk	VA-06412-18 7.6 m (25 ft)/pk
CHEM-SURE®	—	VA-96210-14 0.3 m (1 ft)/pk	VA-96210-16 0.3 m (1 ft)/pk	VA-96210-25 0.3 m (1 ft)/pk	VA-96210-17 0.3 m (1 ft)/pk	VA-96210-18 0.3 m (1 ft)/pk
STA-PURE®	—	VA-96200-14 0.3 m (1 ft)/pk	VA-96200-16 0.3 m (1 ft)/pk	VA-96200-25 0.3 m (1 ft)/pk	VA-96200-17 0.3 m (1 ft)/pk	VA-96200-18 0.3 m (1 ft)/pk