







# Thermo Scientific Masterflex L/S

## Tubing

### Specifications

Pump tubing cross sections	Masterflex® P/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 <sub>2</sub> O (29 ft H <sub>2</sub> O)	8.8 m H <sub>2</sub> O (29 ft H <sub>2</sub> O)	8.8 m H <sub>2</sub> O (29 ft H <sub>2</sub> O)	8.8 m H <sub>2</sub> O (29 ft H <sub>2</sub> O)	6.7 m H <sub>2</sub> O (22 ft H <sub>2</sub> O)	6.7 m H <sub>2</sub> O (22 ft H <sub>2</sub> 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.

### Ordering Information

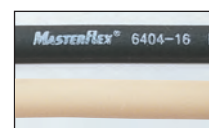
Tubing formulation	Masterflex® P/S Precision pump tubing sizes					
	L/S 13	L/S 14	L/S 16	L/S 25	L/S 17	L/S 18
Silicone (platinum-cured)	96410-13 7.6 m (25 ft)/pk	96410-14 7.6 m (25 ft)/pk	96410-16 7.6 m (25 ft)/pk	96410-25 7.6 m (25 ft)/pk	96410-17 7.6 m (25 ft)/pk	96410-18 7.6 m (25 ft)/pk
Silicone (peroxide-cured)	96400-13 7.6 m (25 ft)/pk	96400-14 7.6 m (25 ft)/pk	96400-16 7.6 m (25 ft)/pk	96400-25 7.6 m (25 ft)/pk	96400-17 7.6 m (25 ft)/pk	96400-18 7.6 m (25 ft)/pk
BioPharm Plus silicone (platinum-cured)	96440-13 7.6 m (25 ft)/pk	96440-14 7.6 m (25 ft)/pk	96440-16 7.6 m (25 ft)/pk	96440-25 7.6 m (25 ft)/pk	96440-17 7.6 m (25 ft)/pk	96440-18 7.6 m (25 ft)/pk
C-FLEX® (50 A)	06424-13 7.6 m (25 ft)/pk	06424-14 7.6 m (25 ft)/pk	06424-16 7.6 m (25 ft)/pk	06424-25 7.6 m (25 ft)/pk	06424-17 7.6 m (25 ft)/pk	06424-18 7.6 m (25 ft)/pk
Tygon® LFL	06429-13 7.6 m (25 ft)/pk	06429-14 7.6 m (25 ft)/pk	06429-16 7.6 m (25 ft)/pk	06429-25 7.6 m (25 ft)/pk	06429-17 7.6 m (25 ft)/pk	06429-18 7.6 m (25 ft)/pk
Tygon® food (B-44-4X)	06419-13 15.2 m (50 ft)/pk	06419-14 15.2 m (50 ft)/pk	06419-16 15.2 m (50 ft)/pk	06419-25 15.2 m (50 ft)/pk	06419-17 15.2 m (50 ft)/pk	06419-18 15.2 m (50 ft)/pk
Tygon® lab (R-3603)	06409-13 15.2 m (50 ft)/pk	06409-14 15.2 m (50 ft)/pk	06409-16 15.2 m (50 ft)/pk	06409-25 15.2 m (50 ft)/pk	06409-17 15.2 m (50 ft)/pk	06409-18 15.2 m (50 ft)/pk
Tygon® fuel and lubricant (F-4040-A)	06401-13 15.2 m (50 ft)/pk	06401-14 15.2 m (50 ft)/pk	06401-16 15.2 m (50 ft)/pk	06401-25 15.2 m (50 ft)/pk	06401-17 15.2 m (50 ft)/pk	06401-18 15.2 m (50 ft)/pk
PharMed® (BPT)	06508-13 7.6 m (25 ft)/pk	06508-14 7.6 m (25 ft)/pk	06508-16 7.6 m (25 ft)/pk	06508-25 7.6 m (25 ft)/pk	06508-17 7.6 m (25 ft)/pk	06508-18 7.6 m (25 ft)/pk
Norprene® (A 60 G)	06404-13 15.2 m (50 ft)/pk	06404-14 15.2 m (50 ft)/pk	06404-16 15.2 m (50 ft)/pk	06404-25 15.2 m (50 ft)/pk	06404-17 15.2 m (50 ft)/pk	06404-18 15.2 m (50 ft)/pk
Norprene® food (A 60 F)	06402-13 15.2 m (50 ft)/pk	06402-14 15.2 m (50 ft)/pk	06402-16 15.2 m (50 ft)/pk	06402-25 15.2 m (50 ft)/pk	06402-17 15.2 m (50 ft)/pk	06402-18 15.2 m (50 ft)/pk
Viton®	06412-13 7.6 m (25 ft)/pk	06412-14 7.6 m (25 ft)/pk	06412-16 7.6 m (25 ft)/pk	06412-25 7.6 m (25 ft)/pk	06412-17 7.6 m (25 ft)/pk	06412-18 7.6 m (25 ft)/pk
Style 500 (Reinforced FFKM)	—	96210-14 0.3 m (1 ft)/pk	96210-16 0.3 m (1 ft)/pk	96210-25 0.3 m (1 ft)/pk	96210-17 0.3 m (1 ft)/pk	96210-18 0.3 m (1 ft)/pk
Style 100 (Reinforced Silicone)	—	96200-14 0.3 m (1 ft)/pk	96200-16 0.3 m (1 ft)/pk	96200-25 0.3 m (1 ft)/pk	96200-17 0.3 m (1 ft)/pk	96200-18 0.3 m (1 ft)/pk

## Ordering the Correct Pump Tubing

- Consider all aspects of your application: flow rate, pressure, viscosity, etc.
- If your application requires high pressure, a strong vacuum/suction lift, or involves viscous fluids, consider using High-performance precision tubing.

## High-Pressure Pump Tubing!

Flexible pump tubing from Masterflex that allows you to pump at continuous pressures up to 100 psi. Pack of 7.6 m (25 ft).



Tubing formulation	Masterflex® pump tubing sizes	
	L/S® 16HP	L/S® 15HP
Tubing ID	1/8"	3/16"
Flow range	0.9 to 90 mL/min	1.7 to 170 mL/min
Max pressure, continuous	100 psi (6.8 bar)	80 psi (5.5 bar)
Norprene®	VA-06504-16	VA-06504-15
PharMed®	VA-06585-16	VA-06585-15

## Specifications

Pump tubing cross sections	Masterflex P/S High-performance precision pump tubing sizes			
	L/S 15	L/S 24	L/S 35	L/S 36
Inside diameter (nominal)	4.8 mm (0.19")	6.4 mm (0.25")	7.9 mm (0.31")	9.7 mm (0.38")
Hose barb size (nominal)	4.8 mm (3/16")	6.4 mm (1/4")	9.5 mm (3/8")	9.5 mm (3/8")
Flow range (approximate)* with 6 to 600 rpm drive	10 to 1000 mL/min (0.16 to 15.8 GPH)	17 to 1700 mL/min (0.27 to 26.8 GPH)	23 to 2300 mL/min (0.36 to 36.3 GPH)	29 to 2900 mL/min (0.46 to 45.8 GPH)
Flow range* (approx) with 6 to 600 rpm drive obtained with High-Performance pump head	11 to 1100 mL/min (0.17 to 17.4 GPH)	18 to 1800 mL/min (0.29 to 28.4 GPH)	26 to 2600 mL/min (0.41 to 41.1 GPH)	34 to 3400 mL/min (0.54 to 53.8 GPH)
Maximum pressure,† continuous	1.7 bar (25 psi)	1.7 bar (25 psi)	1.4 bar (20 psi)	1.0 bar (15 psi)
Maximum pressure,† intermittent	2.7 bar (40 psi)	2.7 bar (40 psi)	2.4 bar (35 psi)	2.4 bar (35 psi)
Maximum vacuum† Suction lift†	660 mm Hg (26" Hg) 8.8 m H <sub>2</sub> O (29 ft H <sub>2</sub> O)	660 mm Hg (26" Hg) 8.8 m H <sub>2</sub> O (29 ft H <sub>2</sub> O)	660 mm Hg (26" Hg) 8.8 m H <sub>2</sub> O (29 ft H <sub>2</sub> O)	610 mm Hg (24" Hg) 8.3 m H <sub>2</sub> O (27 ft H <sub>2</sub> O)

\*Flow rates are approximate—calculated under the following conditions: 0 psig at inlet, 0.5 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, contact factory.

## Ordering Information

Tubing formulation	Masterflex P/S High-performance precision pump tubing sizes			
	L/S 15	L/S 24	L/S 35	L/S 36
Silicone (platinum-cured)	96410-15 7.6 m (25 ft)/pk	96410-24 7.6 m (25 ft)/pk	96410-35 7.6 m (25 ft)/pk	96410-36 7.6 m (25 ft)/pk
Silicone (peroxide-cured)	96400-15 7.6 m (25 ft)/pk	96400-24 7.6 m (25 ft)/pk	96400-35 7.6 m (25 ft)/pk	96400-36 7.6 m (25 ft)/pk
BioPharm Plus silicone (platinum-cured)	96440-15 7.6 m (25 ft)/pk	96440-24 7.6 m (25 ft)/pk	96440-35 7.6 m (25 ft)/pk	96440-36 7.6 m (25 ft)/pk
C-FLEX® (50 A)	06424-15 7.6 m (25 ft)/pk	06424-24 7.6 m (25 ft)/pk	06424-35 7.6 m (25 ft)/pk	06424-36 7.6 m (25 ft)/pk
Tygon® LFL	06429-15 7.6 m (25 ft)/pk	06429-24 7.6 m (25 ft)/pk	06429-35 7.6 m (25 ft)/pk	06429-36 7.6 m (25 ft)/pk
Tygon® food (B-44-4X)	06419-15 15.2 m (50 ft)/pk	06419-24 15.2 m (50 ft)/pk	06419-35 15.2 m (50 ft)/pk	06419-36 15.2 m (50 ft)/pk
Tygon® lab (R-3603)	06409-15 15.2 m (50 ft)/pk	06409-24 15.2 m (50 ft)/pk	06409-35 15.2 m (50 ft)/pk	06409-36 15.2 m (50 ft)/pk
Tygon® fuel & lubricant (F-4040-A)	06401-15 15.2 m (50 ft)/pk	06401-24 15.2 m (50 ft)/pk	06401-35 15.2 m (50 ft)/pk	06401-36 15.2 m (50 ft)/pk
PharMed® (BPT)	06508-15 7.6 m (25 ft)/pk	06508-24 7.6 m (25 ft)/pk	06508-35 7.6 m (25 ft)/pk	06508-36 7.6 m (25 ft)/pk
Norprene® (A 60 G)	06404-15 15.2 m (50 ft)/pk	06404-24 15.2 m (50 ft)/pk	06404-35 15.2 m (50 ft)/pk	06404-36 15.2 m (50 ft)/pk
Norprene® food (A 60 F)	06402-15 15.2 m (50 ft)/pk	06402-24 15.2 m (50 ft)/pk	06402-35 15.2 m (50 ft)/pk	06402-36 15.2 m (50 ft)/pk
Viton®	06412-15 7.6 m (25 ft)/pk	06412-24 7.6 m (25 ft)/pk	06412-35 7.6 m (25 ft)/pk	06412-36 7.6 m (25 ft)/pk
Style 500 (Reinforced FFKM)	96210-15 0.3 m (1 ft)/pk	96210-24 0.3 m (1 ft)/pk	96210-35 0.3 m (1 ft)/pk	96210-36 0.3 m (1 ft)/pk
Style 100 (Reinforced Silicone)	96200-15 0.3 m (1 ft)/pk	96200-24 0.3 m (1 ft)/pk	96200-35 0.3 m (1 ft)/pk	96200-36 0.3 m (1 ft)/pk

P/S 2

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