

L/S® PTFE-TUBING PUMP HEAD

FEATURES / BENEFITS

- ▶ Flow range: 0.06 to 65 mL/min
- Transfer aggressive organic solvents and maintain fluid purity
- ▶ Transfer liquid containing small particulates
- Excellent chemical compatibility
- Deliver a wide range of flow rates at pressures up to 100 psi
- Adjustable occlusion
- Use precision-molded tubing sets

SELECTION CRITERIA

- Flow rate desired.
- ▶ Tube size required.
- Description Compatibility with drives.

See specifications for more information.

Order tubing and drives separately.

COMPATIBILITY WITH DRIVES

■ Mount on all Masterflex L/S drives that accept two or more pump heads

Pump Housing Specifications

- Pump body, bearing support, and rotor plates are anodized aluminum
- Rotor shaft, bearing, rollers, and hardware are stainless steel
- Docclusion bed: acetal
- ▶ ABS plastic occlusion knob

Notes

Use only Masterflex PTFE-tubing sets with the Masterflex PTFE-tubing pump head to ensure optimal performance. Use of other tubing may void applicable warranties.

ROLLER/ROTOR SPECIFICATIONS

300-Series Stainless Steel (SS)

- ▶ Humidity from 0% to 100%
- Operating temperature from 0 to 40°C (32 to 104°F)
- ▶ Fluid temperature from 0 to 100°C (32 to 212°F)
- ▶ Ball-bearing construction
- Continuous duty up to 300 rpm



PTFE-tubing pump head 77390-00



PTFE tubing pump head 77390-00 shown on L/S variable-speed console drive 07520-40 is ideal for transferring aggressive organic solvents.

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ORDERING INFORMATION

ORDERING INFORMATION		
Catalog number	Description	
RX-77390-00	L/S PTFE-tubing pump head only	

PTFE-TUBING SETS AND ACCESSORIES

PTFE-Tubing Sets include two 38 cm (15") lengths and cannot be substituted with ordinary PTFE tubing. Choose compression fittings below to adapt tubing sets to your system.

RX-77390-50 PTFE-tubing set, 4-mm OD, 2-mm ID. Set of two 38-m (15") lengths. RX-77390-60 PTFE-tubing set, 6-mm OD, 4-mm ID. Set of two 38-m (15") lengths.

For 4-mm OD PTFE-Tubing Sets

RX-31321-61 Straight connector, 2.8 bar (40 psi) max pressure

RX-31321-62 Male pipe adapter with 1/8" NPT(M) connection

RX-31321-63 Male pipe adapter with 1/4" NPT(M) connection

RX-06605-53 PTFE extension tubing, 4-mm OD. Pack of 7.6 m (25 ft)

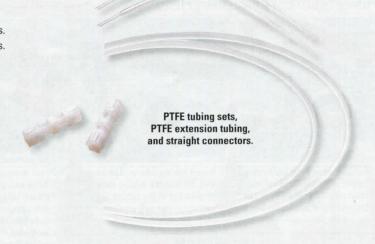
For 6-mm OD PTFE-Tubing Sets

RX-31321-64 Straight connector, 9.2 bar (135 psi) max pressure

RX-31321-43 Male pipe adapter with 1/4" NPT(M) connection

RX-06605-54 PTFE extension tubing, 6-mm OD. Pack of 7.6 m (25 ft)

RX-31321-49 Tubing grooving tool. Use when connections must withstand 40 psi (2.8 bar) or greater



MASTERFLEX

PUMP HEADS

L/S

SPECIFICATIONS for L/S PTFE-Tubing Pump Head

Catalog number		RX-77390-00
Performance Specifica	ations	
Flow capacity	4-mm OD tubing	0.06 to 17 mL/min (0 to 0.27 GPH)
	6-mm OD tubing	0.25 to 65 mL/min (0 to 1.1 GPH)
Max rpm		300
Number of rollers		6
Vacuum lift		2.4 m H ₂ 0 (8 ft H ₂ 0)
Maximum Torque [pun	ping water at 0 psi, 21°C (70°)]	
PTFE tubing		12.9 kg-cm (180 oz-in)
Physical Specification	s	
Pump body, bearing su	pport, and rotor plates material	Anodized aluminum
Rotor shaft, bearings, rollers, and hardware material		Stainless steel
Reversible		Yes
Run dry		No [†]
Operating temperature		0 to 40°C (32 to 104°F)
Shipping weight		1.5 kg (3.3 lb)

[†]Do not pump gases or run dry for long periods of time; run dry to prime only.

COMPLETE L/S PTFE-TUBING PUMP SYSTEM

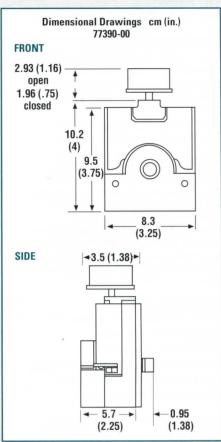
One catalog number simplifies the process

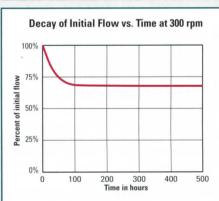
To make it easier to order a complete pump, purchase a pump head, tubing, and drive with just one catalog number.

Complete system includes one PTFE-tubing pump head 77390-00, one PTFE tubing set 77390-60, a 300-rpm variable-speed drive 07520-60 (115 VAC) or 07520-67 (230 VAC), two $\frac{1}{4}$ " NPT (M) pipe adapters, and a tubing grooving tool.

Catalog number	Power	
RX-77912-00	115 VAC, 50/60 Hz	
RX-77912-07	230 VAC, 50/60 Hz	







HOW TO LOAD YOUR PUMP HEAD



Rotate locking ring then
rotate the knob on top of the
pump counterclockwise. Lift
occlusion bed by sliding it out
the front of the body assembly.



2. Install the PTFE tubing assembly in the occlusion bed groove.



3. Slide the occlusion assembly back onto the body assembly and tighten knob.

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