MASTERFLEX

FEATURES / BENEFITS

- Delivers the highest flow rate of any L/S pump head
- Flow rates from 0.006 to 3400 mL/min
- To fit application needs, pump head can be mounted upright or on its side
- Tubing enters/exits same side of pump head
- Adjustable tubing retention holds tubing firmly in place
- Ideal for viscous fluid transfer
- Adapts easily to OEM applications
- Model 77250-82 is ATEX Zone 2 rated EEx II 3 G c IIC T6; NEC rated for Class I Division 2 Groups A,

SELECTION CRITERIA

- 1. Flow rate/tube size desired.
- 2. Materials of construction.
- 3. Compatibility with drives.
- ▶ 38 cm (15") of silicone tubing and mounting hardware are supplied

See specifications for more information.

Order tubing and drives separately.

COMPATIBILITY WITH DRIVES

Compatible with all Masterflex L/S drives that accept two or more pump heads

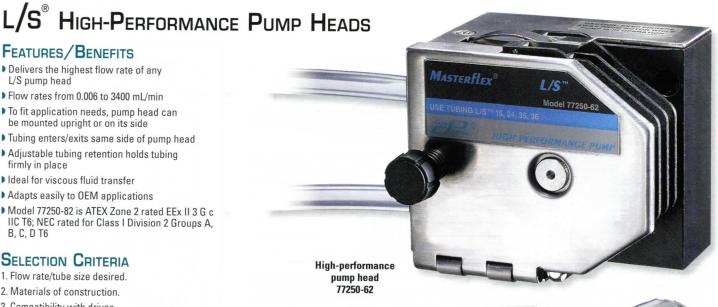
PUMP HOUSING SPECIFICATIONS

- Rollers, bearings, rotor plates, and rotor shaft are made of stainless steel
- Occlusion bed: polyphenylene sulfide
- Retainer adjusting knob: polypropylene
- Main body: polyester

ROLLER/ROTOR SPECIFICATIONS

Stainless Steel (SS)

- Departing temperatures from 0 to 40°C (32 to 104°F)
- ▶ Storage temperature range: -40 to 60°C (-40 to 140°F)
- ▶ Humidity: 95% maximum, 5% minimum (noncondensing)
- Continuous duty up to 600 rpm



High-performance pump head 77250-62 shown mounted on an L/S modular drive 07553-70



ATEX

MULTICHANNEL CAPABILITIES

L/S High-Performance pump heads are not designed to be stacked

SEE PAGE 117

For Masterflex 100 psi high-pressure pump system.

ORDERING INFORMATION

	Pump tubing	High-Performance	ATEX-approved High-			
	size	pump head	Performance pump head			
	L/S 15					
	L/S 24					
	L/S 35		New			
	L/S 36	DV 77050 00	RX-77250-82			
	L/S 14HP	RX-77250-62				
	L/S 16HP					
	L/S 15HP					
	L/S 24HP					

L/S PUMP TUBING FLOW RATE INFORMATION

Order Masterflex L/S numn tuhing senarately on pages 64-69; order high-pressure tuhing on facing page

	L/S High-performance Precision pump tubing				L/S High-pressure Precision pump tubing			
Tubing cross sections	L/S 15	L/S 24	L/S 35	L/S 36	L/S 14HP	L/S 16HP	L/S 15HP	C L/S 24HP
Flow rate-mL/rev	1.8	3.0	4.3	5.8	0.3	0.9	1.7	2.4
mL/min @ 100 rpm	180	300	430	580	30	90	170	240
mL/min @ 600 rpm	1100	1800	2600	3400	Not recor	mmended	Not recor	
Max pressure [†]	2.7 bar (40 psi) 2.4 bar (35 psi)		1.4 bar (20 psi)	10.2 bar (150 psi)	8.5 bar (125 psi)	6.8 bar (100 psi)	5.5 bar (80 psi)	
Max vacuum [†] 660 mm l		000 11 /001	Hg) 610 mm Hg (24" Hg)		660 mm Hg (26" Hg)			
Max vacuum [†]		660 mm Hg (26"	1 g)	blu mm Hq (24 Hq)		bbU mm	1 Ha (26" Ha)	

[†]Actual performance varies depending upon tubing materials—see pages 20–23 and 172–192 for more information.

SPECIFICATIONS for L/S High-Performance Pump Heads

Catalog number		RX-77250-62, RX-77250-82		
Performance Specification	ıs			
Flow capacity		0.006 to 3400 mL/min (0 to 54 GPH)		
Max rpm		600		
Number of rollers				
Torque Specifications [pur	nping water at 0 psi, 21°C (70°F)]†			
Norprene®,	Starting torque	13.8 kg-cm (192 oz-in)		
PharMed® BPT	Running torque	3.6 kg-cm (50 oz-in)		
T ® Vr. ®	Starting torque	11.5 kg-cm (160 oz-in)		
Tygon [®] , Viton [®]	Running torque	5.4 kg-cm (75 oz-in)		
	Starting torque	5.4 kg-cm (75 oz-in)		
C-FLEX®, Silicone	Running torque	2.7 kg-cm (37 oz-in)		
Norprene® HP,	Starting torque	43.9 kg-cm (610 oz-in)		
PharMed® BPT HP	Running torque	7.2 kg-cm (100 oz-in)		
Physical Specifications				

Roller, bearings, rotor plates, and rotor shaft materials	Stainless steel		
Operating temperature	0 to 40°C (32 to 104°F)		
Shipping weight	1.6 kg (3.5 lb)		

[†]For L/S 36 tubing.

Accessories

RX-77250-01 Replacement mounting hardware, stainless steel.



Notes

Use only Masterflex pump tubing with Masterflex pumps to ensure optimal performance. Use of other tubing may void applicable warranties.

Maximum pressure

ORDERING INFORMATION for L/S High-Pressure Pump Tubing

	size	number	ID	(1 to 100 rpm)	(continuous)	Length/pk	
	PharMed BPT						
New	L/S 14HP	RX-95664-14	1/16"	0.3 to 30 mL/min	10.2 bar (150 psi)		
	L/S 16HP RX-95664-16		1/8"	0.9 to 90 mL/min	8.5 bar (125 psi)	7.6 m (25 ft)	
	L/S 15HP	RX-95664-15	3/16"	1.7 to 170 mL/min	6.8 bar (100 psi)	7.6 111 (25 11)	
New	L/S 24HP	RX-95664-24	1/4"	2.4 to 240 mL/min	5.5 bar (80 psi)		
	Norprene						
	L/S 16HP	RX-06504-16	1/8"	0.9 to 90 mL/min	8.5 bar (125 psig)	7.6 m (25 ft)	
	L/S 15HP	RX-06504-15	3/16"	1.7 to 170 mL/min	6.8 bar (100 psig)		

Tubing Flow range

HOW TO LOAD YOUR PUMP HEAD

Catalog



 Rotate tubing retainer knob counterclockwise to release retainer, then open cover. Lift latch to open occlusion bed.



Insert tubing into occlusion bed, so that the tubing ends extend out of the tubing entrance and exit as shown.



3. Press occlusion bed against tubing and snap latch closed. Pull the tubing snug around rotor, close cover, and rotate tubing retainer knob clockwise. Tighten tubing retainer knob to secure tubing.

Dimensional Drawings cm (in.) 77250-62, -82

9.5 (3.75) 2.5 (1) 9.5 (3.75) 8.6 (3.38) 4.1 (1.63) 3 (1.19) 3.1 (1.22) 14 (5.50) 14.9 (5.88)

11.8 (4.63) 11.8 (4.63) 3.1 (1.22) (1.38) 9.8 (3.88) -7.1 (2.81) 2.8 (1.13) (1.13) 9.8 (3.88) -11.6 (4.56)

FREE TUBING TEST KIT!

15 1 (5 0/1)

Can't find your chemical in the tables?

Request your FREE tubing kit to test compatibility of your chemicals against up to 17 different tubing formulations. Request item RX-00101-10.

Call or go online to request your FREE test kit today!



L/S® Tubing	64-69
L/S® DRIVES	70-107
I /C® Dunes Cycresso	100 117

Accessories.....160-171

TECHNICAL DATA......172-206