

L/S® VARIABLE-SPEED HAZARDOUS-DUTY DRIVE

FEATURES/BENEFITS

- ▶ Flow rates from 0.6 to 2500 mL/min (0.06 to 11.5 LPM using I/P® pump heads)
- ▶ 115 VAC motor: UL-listed for Class 1, Groups C and D, Division 1 hazardous locations
- ▶ Ideal for areas that require special electrical precautions

SETUP

1. Mount L/S or I/P pump head to mounting plate.
2. Load Masterflex® L/S or I/P tubing.
3. Turn pump on.

Power switch and line cord are not included.

SPEED CONTROL/CIRCUITRY

- ▶ Mechanical speed control (zero-max) with lever
- ▶ Locking knob to maintain speed control

PUMP HEADS ACCEPTED

- ▶ Drive accepts 11 different pump heads:
 - ◆ L/S pump heads: Standard, Easy-Load® 3, Easy-Load II, Easy-Load, High-Performance, PTFE-Tubing, Multichannel Cartridge, PTFE-Diaphragm
 - ◆ I/P pump heads: Standard, Easy-Load, High-Performance
- ▶ For flow rate information using I/P pump heads, see page 144

ORDERING INFORMATION

Catalog number	rpm	Power
HL-07583-50	10 to 430	115 VAC, 60 Hz



I/P Variable-speed hazardous-duty drive 07583-50 with I/P Easy-Load® pump head 77601-00

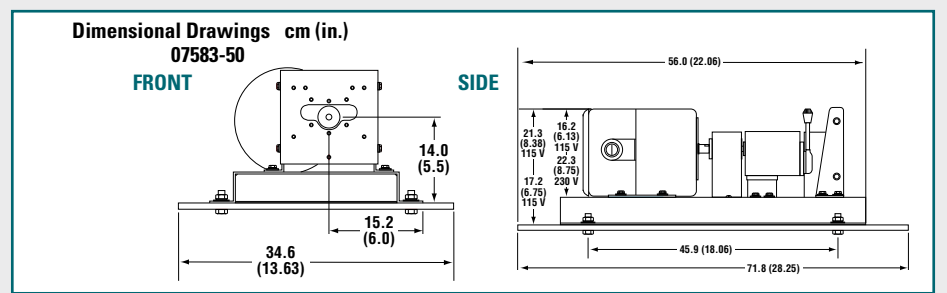
Variable-speed hazardous-duty drive 07583-50 with L/S Easy-Load® II pump head 77200-62



SPECIFICATIONS for L/S Variable-Speed Hazardous-Duty Drive

Catalog number	HL-07583-50	
Performance Specifications		
Flow capacity†	0.6 to 2500 mL/min	
rpm	10 to 430	
Number of heads accepted	2	
Maximum torque	Starting	572 N·cm (810 oz-in)
	Running	191 N·cm (270 oz-in)
Reversible	No (CCW from front)	
Electrical Specifications		
Voltage/Frequency VAC (Hz)	115 (60)	
Current	4.7 A	
Motor type	1725 rpm AC	
Motor size	190 W (¼ hp)	
Motor/speed control type	Mechanical (zero-max) with lever	
Physical Specifications		
Housing materials	Painted steel	
IP rating‡	IP21	
Dimensions (L x W x H)	56.0 cm x 34.6 cm x 22.3 cm (22 1/16" x 13 5/8" x 8 3/4")	
Operating temperature	0 to 40°C (32 to 104°F)	
Storage temperature	-25 to 65°C (-13 to 149°F)	
Shipping weight	26.6 kg (58.6 lb)	

†Depending on drive rpm and tubing size. ‡See page 194 for an explanation of IP ratings.



L/S PUMP TUBING FLOW RATE INFORMATION (mL/MIN)

Order Masterflex L/S pump tubing separately on pages 68–73.

Tubing sizes	L/S Precision pump tubing						L/S High-performance Precision pump tubing			
	L/S 13	L/S 14	L/S 16	L/S 25	L/S 17	L/S 18	L/S 15	L/S 24	L/S 35	L/S 36
Flow range @ 10 to 430 rpm	0.6 to 26	2.1 to 86	8 to 350	17 to 730	28 to 1200	38 to 1600	17 to 730 (18 to 780)	28 to 1200 (30 to 1300)	38 to 1600 (43 to 1900)	48 to 2100 (58 to 2500)

Note: Flow rates were determined using water at room temperature and with zero back pressure and suction lift. Flow rates in parentheses can be obtained only with the Masterflex L/S High-performance pump head.