

I/P® VARIABLE-SPEED HAZARDOUS-DUTY DRIVE

FEATURES/BENEFITS

- ▶ Flow rates from 0.06 to 11.5 LPM* (0.6 to 2500 mL/min using L/S® 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:
 - ◆ I/P pump heads: Standard, Easy-Load®, High-Performance
 - ◆ L/S pump heads: Standard, Easy-Load 3, Easy-Load II, Easy-Load, High-Performance, PTFE-Tubing, Multichannel Cartridge, PTFE-Diaphragm
- ▶ For flow rate information using L/S pump heads, see page 102

ORDERING INFORMATION

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



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



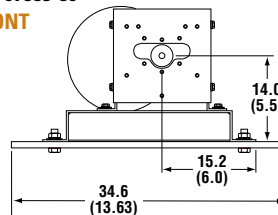
SPECIFICATIONS for I/P Variable-Speed Hazardous-Duty Drive

Catalog number	HL-07583-50
Performance Specifications	
Flow capacity†	0.06 to 11.5 LPM (0.02 to 3.0 GPM)
rpm	10 to 430
Number of heads accepted	2
Maximum running torque	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 x 34.6 x 22.3 cm (22¼" x 13⅝" x 8¾")
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)

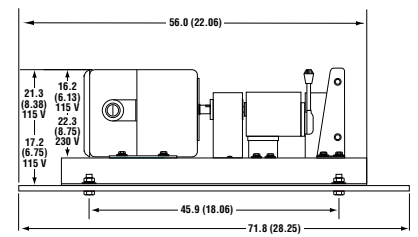
†Depending on drive rpm and tubing size. ‡See page 194 for an explanation of IP ratings.

Dimensional Drawings cm (in.)

FRONT



SIDE



I/P PUMP TUBING FLOW RATE INFORMATION

Order Masterflex I/P pump tubing on pages 126–130.

STANDARD
0.12 to 8.8 LPM
pages 120–121



EASY-LOAD®
0.06 to 8.8 LPM
pages 122–123



HIGH-PERFORMANCE
0.12 to 11.5 LPM
pages 124–125



Motor rpm range	I/P Precision pump tubing			I/P High-performance Precision pump tubing††		
	I/P 26	I/P 73	I/P 82	I/P 70	I/P 88	I/P 89
10 to 430	0.06 to 2.6 LPM (0.02 to 0.7 GPM)	0.12 to 5.3 LPM (0.03 to 1.4 GPM)	0.20 to 8.8 LPM (0.05 to 2.3 GPM)	0.12 to 5.3 LPM (0.03 to 1.4 GPM)	0.20 to 8.8 LPM (0.05 to 2.3 GPM)	0.26 to 11.5 LPM (0.07 to 3.0 GPM)

††Use with High-Performance pump head only.