

# Thermo Scientific Masterflex I/P

## Standard Process Pump



Masterflex® I/P® Series

### Standard Process Pump

- Brushless motor handles challenging applications with minimal maintenance.
- Non-chip epoxy-coated, washdown IP55-rated steel enclosure protects against moisture, chemicals, and dust.
- Compact drive is light enough to carry with one hand, but powerful enough to drive two Pump Heads.
- Speed control via three-turn potentiometer for quick, easy adjustments.
- Speed is displayed on an easy-to-read LED display from 0 to 100% of full speed, with 1% resolution.
- Remote outputs: "pump ready" signal and 4 to 20 mA outputs (requires 77300-32 remote cable kit).
- 1.8 m (6 ft) line cord with IEC 320/CEE 22 socket.



ISO9001:2000  
SUPPLIER CERTIFIED

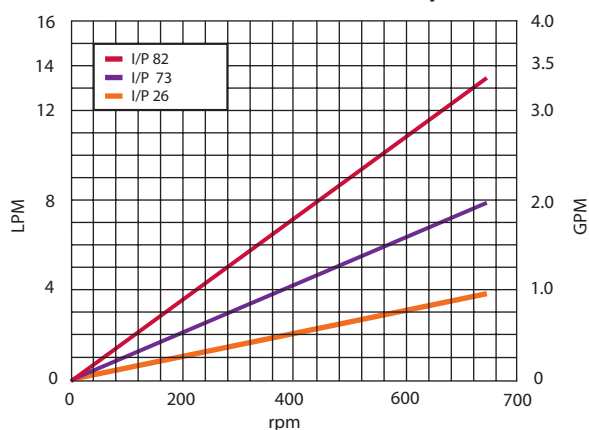
2 year  
warranty

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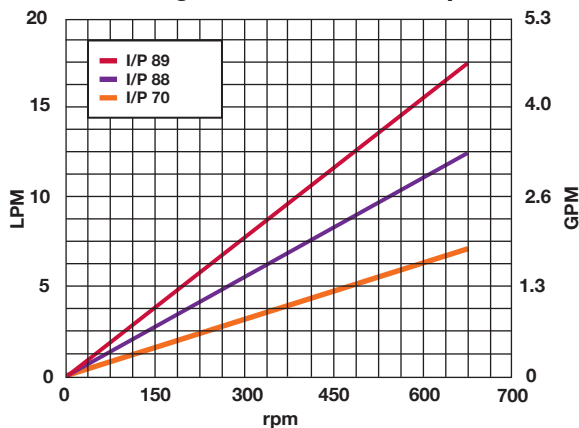
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[www.hollandapt.com](http://www.hollandapt.com)  
800-800-8464

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**Flow Curves**  
I/P EASY-LOAD® Pump



**Flow Curves**  
I/P High-Performance Pump



**Flow ranges, LPM (GPM)**

Motor rpm	Masterflex I/P precision tubing sizes			Masterflex I/P high-performance precision tubing sizes*		
	I/P 26	I/P 73	I/P 82	I/P 70	I/P 88	I/P 89
50 to 650	0.3 to 4.0 (0.08 to 1.0)	0.6 to 8.0 (0.16 to 2.1)	1.0 to 13.0 (0.25 to 3.5)	0.6 to 8.0 (0.16 to 2.1)	1.0 to 13.0 (0.25 to 3.5)	1.3 to 17.0 (0.35 to 4.5)

\*Use High-Performance precision tubing with High-Performance pump head only.

**Specifications & Ordering Information**

Catalog number	Standard process/brushless pump	
	950-1050	960-1050
Included Pump Head	EASY-LOAD	High-Performance
Number of heads accepted	2	1
rpm	50 to 650	
External control, input	4 to 20 mA, 0 to 10 V, start/stop, direction	
External control, output	"Pump ready" signal	
Voltage (50/60 Hz)	115 or 230 V AC auto selected	
Motor type	Brushless DC TENV†	
Speed control type	PWM microprocessor	
Speed regulation (repeatability)	±0.25% (2% of max rpm)	
Digital display	3-digit green LED, percent of speed	
Operating temperature	0 to 40°C (32 to 104°F)	
Storage temperature	-45 to 65°C (-49 to 149°F)	
IP rating	IP55	
Agency approvals	UL, cUL, CE	
Controller dimensions (L x W x H)	19 x 10 x 9 cm (7.5 x 3.9 x 3.5")	
Shipping weight	13 kg (28 lb)	

†Totally enclosed, non-ventilating.

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