Thermo Scientific Masterflex[®] I/P[®]

Industrial Process Pump



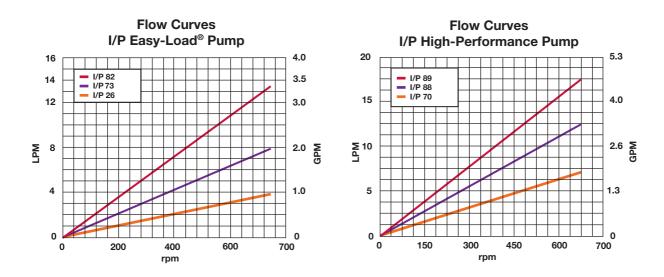
Industrial Process Pump

- Reversible, maintenance-free brushless motor with precise PWM control via a digital signal processor (DSP)
- Digital display of flow rate, dispense volume/cumulative amount per dispense, copy, and motor rpm
- Calibrate in system for accurate flow rate display
- Keypad lock feature prevents accidents or tampering

- Remote control of flow speed (4 to 20 mA), direction, on/off, and tachometer output
- Completely sealed 316 stainless steel enclosure is NEMA 4X (IP66-rated) for protection from tough process environments.
- 1.8-m (6-ft) line cord with IEC 320/CEE 22 socket

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| 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 |
| 1 to 650 | 0.01 to 4.0 (0.002 to 1.0) | 0.01 to 8.0 (0.002 to 2.1) | 0.02 to 13.0 (0.005 to 3.5) | 0.01 to 8.0 (0.002 to 2.1) | 0.02 to 13.0 (0.005 to 3.5) | 0.02 to 17.0 (0.005 to 4.5) |

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

| | Industrial process pump | | |
|-----------------------------------|--|------------------|--|
| Catalog number | 961-3000 | 961-3010 | |
| Included pump head | Easy-Load® | High-Performance | |
| Number of heads accepted | 2 | 1 | |
| rpm | 1 to 650 | | |
| External control, input | 0 to 20 mA, 4 to 20 mA, start/stop/CW/CCW, prime purge | | |
| External control, output | 4-20 mA "drive running" contact, 4-20 mA, 0-10 V | | |
| Voltage (50/60 Hz) | 115 or 230 VAC auto selected | | |
| Motor type | Direct-drive brushless DC TENV† | | |
| Speed control type | PWM microprocessor | | |
| Speed regulation (repeatability) | ±0.25% (±1 rpm) | | |
| Digital display | 6-digit microprocessor | | |
| Operating temperature | 0 to 40°C (32 to 104°F) | | |
| Storage temperature | -45 to 65°C (-49 to 149°F) | | |
| IP rating | IP66 (Nema 4x) | | |
| Agency approvals | UL, cUL, CE | | |
| Controller dimensions (L x W x H) | 18 x 11 x 17 cm (7 x 4.3 x 6.7") | | |
| Shipping weight | 32 kg (70 lb) | | |

[†]Totally enclosed, non-ventilating.

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