

Laboratory/Industrial Pump Drive

SERIES MPD 55



Series MPD 55 Get the range of flow you need for any demanding application with Series MPD 55 variable speed drives from Micropump. Featuring a rugged construction and water resistant case, they are ideally suited for laboratory or process environments. Electronic control, simple installation, and accurate speed control make MPD drives a perfect fit for Micropump's precision, leak-free magnetically driven gear pumps.

Variable Speed

The drive speed can be easily controlled and set manually from a rotary control on the front face of the drive, or by a remote analog signal. The analog connection allows the speed to be adjusted via a 0-10VDC or a 4-20mA control signal. The direction of rotation and start/stop can also be controlled remotely using either of these signals. The speed range is from 100 rpm to 3000 rpm.

Digital Electronic Control

The drive uses an optical encoder and digital controller to ensure the set speed remains constant over varying pump loads. This allows a steady and constant output from the pump. The control accuracy of the drive is +/-0.5%.

Quick Prime

The drive features a quick prime button that overrides the set speed and allows the pump to be driven at a maximum speed of 3000 rpm. This is ideal for priming or purging the pump.

Reverse Operation

The drive can be set to run in the reverse direction, reversing the flow direction of the pump. This feature can only be used with the 120 cavity style pump.

Simple Pump Installation

The drive interface allows a wide range of Micropump magnetically driven gear pumps to be simply fitted to the drive with two fixing screws. The drive is factory fitted with a driving hub that magnetically couples with

the leak-free pump. This allows pumpheads to be changed in a matter of seconds with no special tooling.

Wide Pump Range Available

The drive will fit 120, 180, and 200 series gear pumps offering a flow range from 1.7 to 3500 ml/min (0.0004 to 0.92 GPM) and outlet pressures up to 8.7 Bar (125 psi) depending on pump model. An extensive range of wetted pump material options ensure compatibility with a wide range of chemicals.

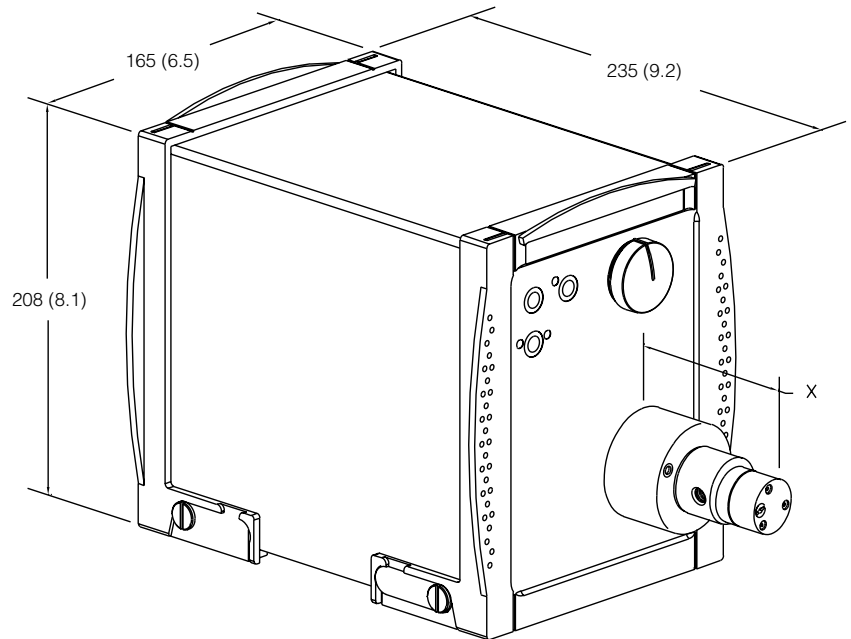
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Drive Specifications

Power Supply	
115 VAC/60 Hz	230 VAC/50 Hz
Maximum Speed	Speed Accuracy
3000 rpm	+/- 0.5%
Speed Control	
Rotary button with scale	
Direction of Rotation	
Reversible	
Motor Rating	
81W	
Electrical Interface—Analog	
Analog for speed (0-10V or 4-20mA)	
Direction of rotation and start/stop (TTL)	
Weight	
excluding pumphead	
7.9 kg	17.4 lbs.
Protection Class	
IP55	
Permissible Ambient Conditions	
at 80% relative air humidity	
0 - 40° C	32 - 104° F
Dimensions	
(W x D x H)	
165 x 235 x 208 mm	6.5 x 9.2 x 8.1 in.

Dimensions



Dimension X

Series 180 = 63.5 (2.5)
Series 200 = 77.0 (3.03)
Series 120 = 94.4 (3.72) maximum

Units: mm(in). Nominal dimensions shown.

Available Pumpheads



Series 180

Flow rates to: 0.28 L/min (0.07 GPM)
Pressures to: 5.2 Bar (75 psi)
Displacement: 0.017 / 0.042 / 0.084 / 0.092 ml/rev



Series 200

Flow rates to: 3.5 L/min (1.1 GPM)
Pressures to: 8.7 Bar (125 psi)
Displacement: 0.26 / 0.58 / 1.17 ml/rev



Series 120

Flow rates to: 2.7 L/min (0.71 GPM)
Pressures to: 5.6 Bar (80 psi)
Displacement: 0.316 / 0.64 / 0.91 ml/rev

Flow rates based on maximum drive speed of 3000 rpm.

Contact your Authorized Micropump Distributor for more detailed information on individual pumpheads.

ACTUAL PERFORMANCE MAY VARY

Specifications are subject to change without notice.

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