

DIAPHRAGM METERING PUMP

PHP-800 Series



PHP-801 shown smaller than actual size.

- ✓ Digital Control
- ✓ Diaphragm Failure Detection System
- ✓ External Signal Control Available
- ✓ Variable Speed
- ✓ NEMA 4X (IP66) (Washdown)
- ✓ Programmable Alarm Relays

The PHP-800 Series of metering pumps are well suited for use in many applications, including; agricultural industries for pumping fertilizers, and in some cases pH lowering chemicals (acid); waste water treatment fields (including municipal); plating and metal finishing; and larger HVAC cooling towers, just to name a few. The pump has PVDF double ball valves that can pump up to 159 LPH (42 GPH, 2650 mL/min) and handle output pressures up to 12.1 bar (175 psi). The PHP-800 also has an operator friendly digital touch pad and easy to read backlit LCD display. The display shows output % and the diaphragm failure alarm status. A built-in diaphragm failure detection (DFD), senses a chemical

leak in the pump head and shuts off the pump. There is also a priming/degassing valve built into the pump head. The washdown rated housing is made of durable, chemical resistant, powder coated aluminum. Brush life is at 3400 hours.

SPECIFICATIONS

Maximum Working Pressure:

12.1 bar (175 psig)

Maximum Fluid Temperature:

54°C (130°F)

Maximum Ambient Temperature:

-10 to 43°C (14 to 110°F)

Output Adjustment Range:

1 to 100% in 1% increments

Duty Cycle: Continuous

Max Viscosity: 1500 Centipoise

Max Suction Lift: 4.6 m (15') water 0 psig

Enclosure: NEMA 4X (IP66)

Alarm Relay:

SPST NO: (field switchable), 3A maximum @ 125 Vac (24 Vdc)

External Signal Control (“-ESC”

Option): 4 to 20mA, 0 to 10 Vdc, AC sign waves TTL, CMOS or contract

Motor on Signal: 5 to 20 Vdc open collector output closed when energized

Approx Shipping Weight:

13 kg (29 lb) wetted components

Diaphragm: PTFE, (PTFE coated CSPE)

Pump Head: PVDF (natural color)

Pump Head Adaptors: PVDF (natural color)

Injection/Check Valve:

Body and Insert: PVDF (natural color)

Check Ball: Ceramic

Spring: Hastelloy® C-276

Ball Seat O-Ring: FKM (optional EP)

Static Seal O-Ring: FKM (optional EP)

Footvalve/Strainer: PVDF natural; polypropylene: grey

Suction Tubing [3.7 m (12')]:

PVC (clear) non-wetted components

Enclosure: 413 aluminum (powder coated)

Pump Head Cover: 413 aluminum (powder coated)

Cover Screws: 300 stainless steel

Motor Shaft: Nickel plated steel

DFD System Sensor Pins:

Hastelloy® C-276

Power Cord: 3-conductor, SJTW-A water-resistant, 1.8 m (6')

Pump Head Adaptors

Standard Unit: Barbed for 13 mm (½") tubing (2 pieces)

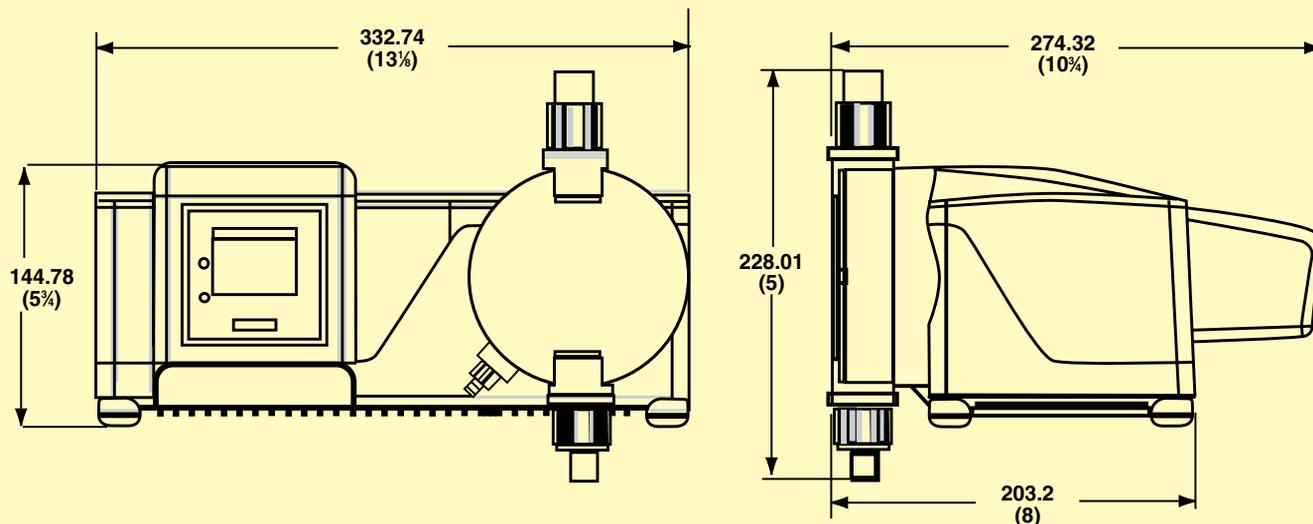
PHP-800M Units:

Threaded, ½ MNPT (2 pieces)

PHP-800F Units:

Threaded, ½ FNPT (2 pieces)

Dimensions: mm (inch)



To Order

Model No.	Description	Control Type	Max Output at 0 psi LPH (GPH)	Pressure Maximum bar (psi)	Max Output @ Max Pressure LPH (GPH)	Fitting	Strokes/Minute
PHP-803	Metering pump	Local	74.6 (19.7)	10.3 (150)	42.6 (11.3)	BARB	130
PHP-804	Metering pump	Local	159 (42)	5.5 (80)	131.4 (34.7)	BARB	130
PHP-803M	Metering pump	Local	74.6 (19.7)	10.3 (150)	42.6 (11.3)	MNPT	130
PHP-804M	Metering pump	Local	159 (42)	5.5 (80)	131.4 (34.7)	MNPT	130
PHP-803F	Metering pump	Local	74.6 (19.7)	10.3 (150)	42.6 (11.3)	FNPT	130
PHP-804F	Metering pump	Local	159 (42)	5.5 (80)	131.4 (34.7)	FNPT	130
PHP-803-ESC	Metering pump	External	74.6 (19.7)	10.3 (150)	42.6 (11.3)	BARB	130
PHP-804-ESC	Metering pump	External	159 (42)	5.5 (80)	131.4 (34.7)	BARB	130
PHP-803M-ESC	Metering pump	External	74.6 (19.7)	10.3 (150)	42.6 (11.3)	MNPT	130
PHP-804M-ESC	Metering pump	External	159 (42)	5.5 (80)	131.4 (34.7)	MNPT	130
PHP-803F-ESC	Metering pump	External	74.6 (19.7)	10.3 (150)	42.6 (11.3)	FNPT	130
PHP-804F-ESC	Metering pump	External	159 (42)	5.5 (80)	131.4 (34.7)	FNPT	130

Accessories

Model No.	Description
PHP-800-MB	Stainless steel extended mounting bracket
TYRP-3412-100	3/4 x 1/2" PVC braid reinforced PVC tubing

Comes complete with operator's manual, priming/pressure relief valve (located on pump head), foot valve/strainer with 13 mm (1/2") ceramic ball and 13 mm (1/2") barbed adaptor, injection fitting with 13 mm (1/2") ceramic ball and one 13 mm (1/2") barbed adaptor, suction tubing, 3 m (10') of 13 mm (1/2") clear PVC tubing and two mounting brackets with screws.

For units with 230 Vac/60 Hz add suffix "-230" to the model number, no additional cost.

For units with 220 Vac/50 Hz and a European plug add suffix "-220" to the model number, no additional cost.

For units with 240 Vac/50 Hz and a UK style plug add suffix "-240" to the model number, no additional cost.

Ordering Examples: PHP-803, 11.3 GPH (42.6 LPH) chemical pump, PHP-800-MB, stainless steel mounting bracket.

PHP-804-ESC, 34.7 GPH (131.4 LPH) chemical pump.