

- 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

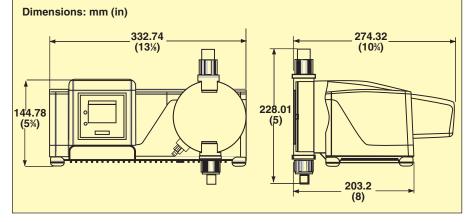
priming/degassing valve built into the pump head. The washdown rated housing is made of durable, chemical resistant, powder coated aluminum. Brush life is at 3400 hours.

SPECIFICATIONS

Max Working Pressure: 12.1 bar (175 psig) Max Fluid Temperature: 54°C (130°F) Max 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 PHP-801, \$1350, shown smaller than actual size.

Max Suction Lift: 4.6 m (15') water 0 psig Enclosure: NEMA 4X (IP66) Alarm Relay:

SPST N.O.: (field switchable), 3A max @ 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

Cover Screws: 300 stainless steel

Power Cord: 3 conductor, SJTW-A

Motor Shaft: Nickel plated steel

DFD System Sensor Pins:

water-resistant, 1.8 m (6')

(powder coated)

Hastelloy® C-276



Pump Head Adaptors Standard Unit: Barbed for 13 mm (1/2") tubing (2 pieces) PHP-800M Units: Threaded, ½ MNPT (2 pieces) PHP-800F Units: Threaded, ½ FNPT (2 pieces)

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)								
Model No.	Price	Description	Control Type	Max Output at 0 PSI LPH (GPH)	Pressure Maximum Bar (PSI)	Max Output @ Max Pressure LPH (GPH)	Fitting	Strokes/ Minute
PHP-801	\$1350	Metering pump	local	36.7 (9.7)	12 (175)	18.6 (4.9)	BARB	62
PHP-802	1350	Metering pump	local	69.7 (18.4)	10.3 (150)	55.2 (14.6)	BARB	62
PHP-803	1350	Metering pump	local	74.6 (19.7)	10.3 (150)	42.6 (11.3)	BARB	130
PHP-804	1350	Metering pump	local	159 (42)	5.5 (80)	131.4 (34.7)	BARB	130
PHP-801M	1350	Metering pump	local	36.7 (9.7)	12 (175)	18.6 (4.9)	MNPT	62
PHP-802M	1350	Metering pump	local	69.7 (18.4)	10.3 (150)	55.2 (14.6)	MNPT	62
PHP-803M	1350	Metering pump	local	74.6 (19.7)	10.3 (150)	42.6 (11.3)	MNPT	130
PHP-804M	1350	Metering pump	local	159 (42)	5.5 (80)	131.4 (34.7)	MNPT	130
PHP-801F	1350	Metering pump	local	36.7 (9.7)	12 (175)	18.6 (4.9)	FNPT	62
PHP-802F	1350	Metering pump	local	69.7 (18.4)	10.3 (150)	55.2 (14.6)	FNPT	62
PHP-803F	1350	Metering pump	local	74.6 (19.7)	10.3 (150)	42.6 (11.3)	FNPT	130
PHP-804F	1350	Metering pump	local	159 (42)	5.5 (80)	131.4 (34.7)	FNPT	130
PHP-801-ESC	1550	Metering pump	external	36.7 (9.7)	12 (175)	18.6 (4.9)	BARB	62
PHP-802-ESC	1550	Metering pump	external	69.7 (18.4)	10.3 (150)	55.2 (14.6)	BARB	62
PHP-803-ESC	1550	Metering pump	external	74.6 (19.7)	10.3 (150)	42.6 (11.3)	BARB	130
PHP-804-ESC	1550	Metering pump	external	159 (42)	5.5 (80)	131.4 (34.7)	BARB	130
PHP-801M-ESC	1550	Metering pump	external	36.7 (9.7)	12 (175)	18.6 (4.9)	MNPT	62
PHP-802M-ESC	1550	Metering pump	external	69.7 (18.4)	10.3 (150)	55.2 (14.6)	MNPT	62
PHP-803M-ESC	1550	Metering pump	external	74.6 (19.7)	10.3 (150)	42.6 (11.3)	MNPT	130
PHP-804M-ESC	1550	Metering pump	external	159 (42)	5.5 (80)	131.4 (34.7)	MNPT	130
PHP-801F-ESC	1550	Metering pump	external	36.7 (9.7)	12 (175)	18.6 (4.9)	FNPT	62
PHP-802F-ESC	1550	Metering pump	external	69.7 (18.4)	10.3 (150)	55.2 (14.6)	FNPT	62
PHP-803F-ESC	1550	Metering pump	external	74.6 (19.7)	10.3 (150)	42.6 (11.3)	FNPT	130
PHP-804F-ESC	1550	Metering pump	external	159 (42)	5.5 (80)	131.4 (34.7)	FNPT	130

Accessories

Model No.	Price	Description				
PHP-800-MB	\$42	Stainless steel extended mounting bracket				
TYRP-3412-100	95	3/4 x 1/2" PVC braid reinforced PVC tubing				
CM-4229	60	Reference Book: Chemical Engineering Volume 6				

Comes complete with operator's manual, priming/pressure relief valve (located on pump head), foot valve/strainer with 13 mm ($\frac{1}{2}''$) ceramic ball and 13 mm ($\frac{1}{2}''$) barbed adaptor, injection fitting with 13 mm ($\frac{1}{2}''$) ceramic ball and one 13 mm ($\frac{1}{2}''$) barbed adaptor, suction tubing, 3 m (10') of 13 mm ($\frac{1}{2}''$) 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 charge. For units with 220 Vac/50 Hz and a European plug add suffix "**-220**" to the model number, no additional charge. For units with 240 Vac/50 Hz and a UK style plug add suffix "**-240**" to the model number, no additional charge.

Ordering Examples: PHP-802, 18.4 GPH (69.7 LPH) chemical pump, PHP-800-MB, stainless steel mounting bracket, \$1350 + 42 = \$1392.

PHP-801-ESC, 9.7 GPH (36.7 LPH) chemical pump, CM-4229, chemical engineering reference book \$1550 + 60 = \$1610.

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