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 Adapters:** 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 Adapters**
- **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)
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.

### To Order

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Control Type</th>
<th>Max Output at 0 psi LPH (GPH)</th>
<th>Pressure Maximum bar (psi)</th>
<th>Max Output @ Max Pressure LPH (GPH)</th>
<th>Fitting</th>
<th>Strokes/Minute</th>
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<tbody>
<tr>
<td>PHP-803</td>
<td>Metering pump Local</td>
<td></td>
<td>74.6 (19.7)</td>
<td>10.3 (150)</td>
<td>42.6 (11.3)</td>
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<tr>
<td>PHP-804</td>
<td>Metering pump Local</td>
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<td>159 (42)</td>
<td>5.5 (80)</td>
<td>131.4 (34.7)</td>
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### Accessories

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<tr>
<td>PHP-800-MB</td>
<td>Stainless steel extended mounting bracket</td>
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<tr>
<td>TYRP-3412-100</td>
<td>¾ x ⅜” PVC braid reinforced PVC tubing</td>
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Coming 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.