

# CHEMICAL METERING PUMPS

## PHP-600 Series



- ✓ Flow Rates from 1.5 to 18.3 Liters per Hour
- ✓ Simple Operation
- ✓ Designed For Floor or Wall Mounting
- ✓ NEMA 4 (IP65) Protection

### VERSATILITY OF DESIGN

The PHP-600 Series pumps have been designed to meet the ever-changing needs of industry. To accommodate diverse applications, the pumps can be easily mounted anywhere in your plant with a broad, flat base and mounting holes for tank, shelf or floor mounting (horizontal). The rear of the pump housing also provides mounting holes to facilitate vertical mounting; wall, tank or machine. With the pump valve assembly and unit controls both located on the front of the pump, there is never a problem with installation or flow adjustments.

### SIMPLE OPERATION

The PHP-600 Series pumps are equipped with a single control for pump output. The external Flow Rate Control (potentiometer) on the face of the pump allows you to adjust the percentage of flow from 0 to 100% of the pump's rated capacity. This feature eliminates the need to worry about stroke lengths and power settings. An LED indicator lights up each time a stroke begins. This allows the user to assess the stroke rate from a distance.

### HIGH QUALITY MATERIALS

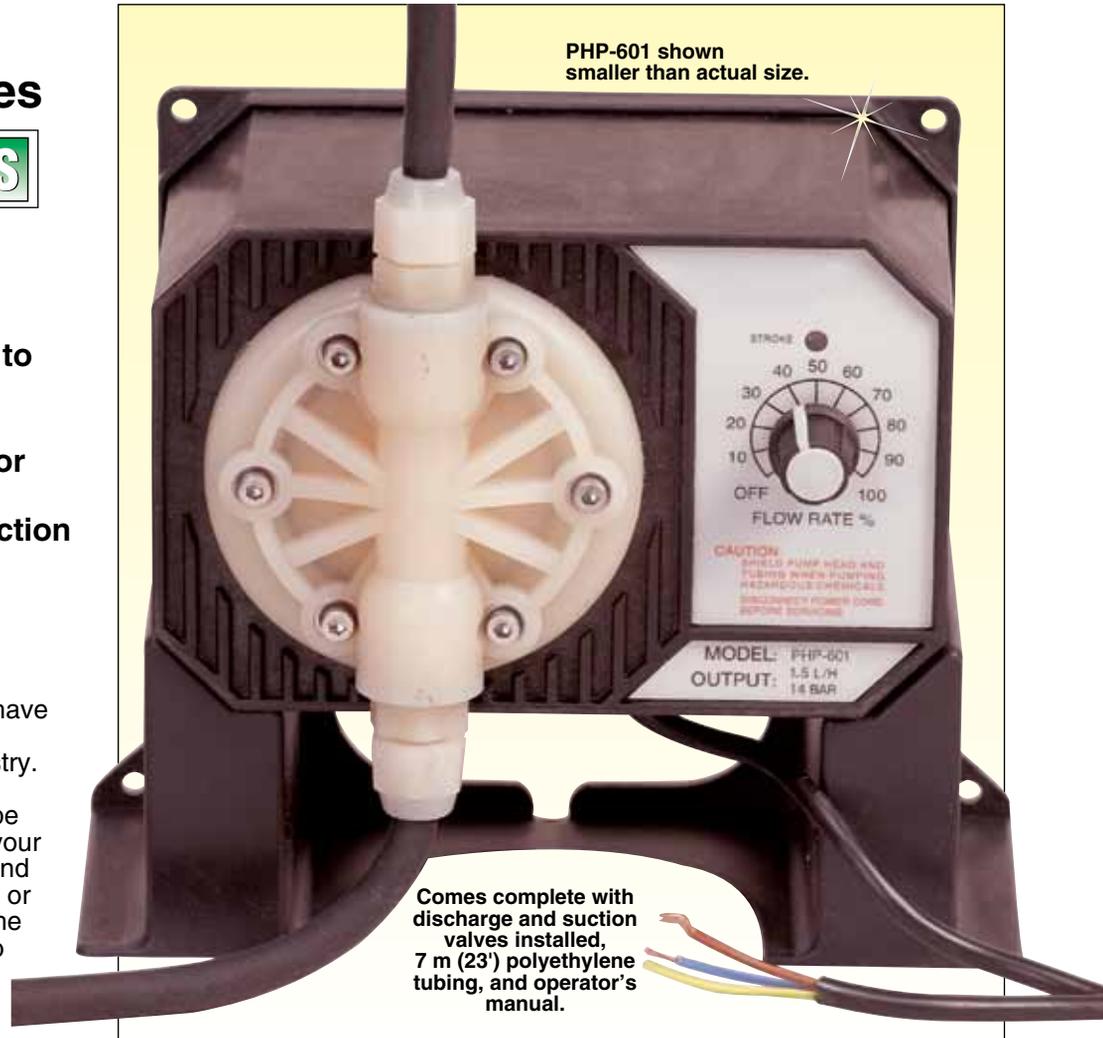
The PHP-600 Series pumps have been manufactured with the highest level of mechanical precision from materials chosen for their inherent ability to resist the effects of most aggressive chemicals. When you select a PHP-600 Series pump you are eliminating the time consuming effort involved in picking the right

material for your application. The PHP-600 Series pumps are supplied with the highest quality material as standard equipment, not optional. The diaphragm utilizes one-piece construction of PTFE, which unlike conventional laminated diaphragms will stand up to the test of time and wear. Ball valves are constructed in glass. The pump head, and O-rings are all made of FKM, PTFE or PVDF, which offer unsurpassed resistance to the chemicals in your industry.

### RUGGED DESIGN

The PHP-600 Series pumps are completely sealed during assembly and offer NEMA 4 (IP65) protection against splashes and spills providing excellent protection even in hostile environments. The fiber-reinforced polypropylene housing stands up to most aggressive chemicals while offering superior strength under tough industrial conditions.

PHP-601 shown smaller than actual size.



Comes complete with discharge and suction valves installed, 7 m (23') polyethylene tubing, and operator's manual.

### RELIABILITY THROUGH SIMPLICITY

The PHP-600 Series positive displacement solenoid driven pumps use a minimum number of moving parts, therefore reducing the chance of mechanical failure. Part wear and oiling associated with motor driven pumps (ball-bearings, gear drives and cams) are not present in these pumps. The PHP-600 Series pumps are more accurate than standard pumps with the positive displacement design ensuring each stroke is identical to the strokes before and after it, thus keeping the flow rate constant.

### THE PHP-600 SERIES PUMPS

A wide range of the PHP-600 Series pumps with different dosing capacities is available for your specific dosing needs. Each pump is supplied with discharge and suction valves. Polyethylene tubing, injection fittings, ceramic weights and replacement parts are also available.

## SPECIFICATIONS

**Power:** 110/115 V 50/60 Hz

220/240 V 50/60 Hz (optional)

**Dimensions:** 165 H x 194 W x 121 mm D  
(6.5 x 7.6 x 4.8")

**Weight:** Approx. 3 kg (6.6 lb)

**Pump Casing:**

Fiber-reinforced polypropylene

**Maximum Absorbed:** Approx. 200W

**Power Protection:** NEMA 4 (IP65)

**Environment:**

From 0 to 50°C (32 to 122°F);

maximum RH 95% non-condensing

**Fittings:** Polyethylene 5 x 8 mm tubing,

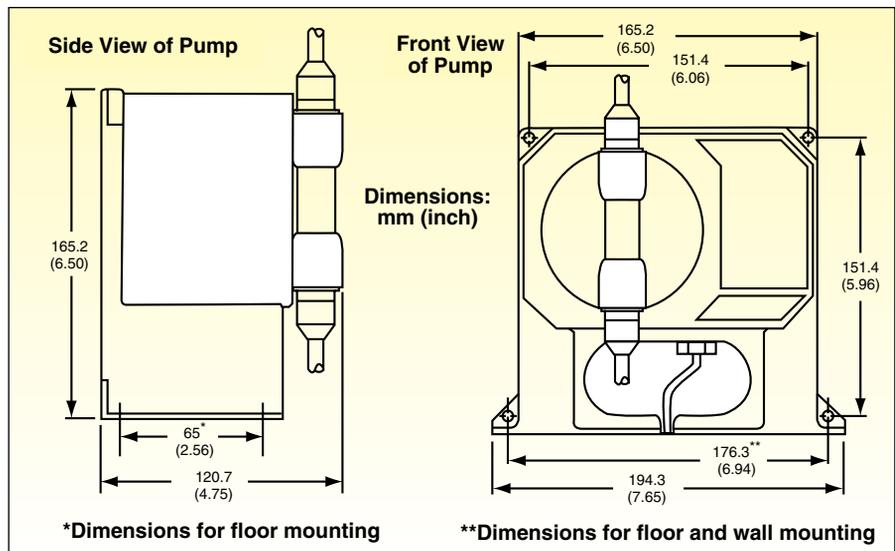
3/8" gas pipeline injection fitting

**Pump Head:** Pump head in PVDF,

diaphragm and valve seats in PTFE

glass ball Valves and O-rings in FKM

**Self-Priming:** Maximum self-priming  
height 1.5 m (5')



PHP-601  
shown smaller  
than actual size.

## To Order

Model No.	Max Capacity		Rated Pressure		
	LPH	GPH	PSI	BAR	Strokes Per Minute
<b>Small Diaphragm</b>					
PHP-601	1.5	0.4	188.5	13.0	120
PHP-602	2.9	0.8	116.0	8.0	120
PHP-603	5.0	1.3	101.5	7.0	120
<b>Large Diaphragm</b>					
PHP-604	7.6	2.0	43.5	3.0	120
PHP-605	10.8	2.9	43.5	3.0	120
PHP-606	15.2	4.0	14.5	1.0	120
PHP-607	18.3	4.8	7.3	0.5	120

## Accessories

Model No.	Description
PHP-600-PHK	PVDF pumphead, PTFE coated O-ring and 6 screws and washers
PHP-600-DVA	Spare discharge valve assembly, complete with a FKM O-ring, glass valve ball, the valve spacer and seat, head nipple and the tube nut to secure the assembled parts
PHP-600-SVA	Spare suction valve assembly, complete with a FKM O-ring, glass valve ball, the valve spacer and seat, head nipple and the tube nut to secure the assembled parts
PHP-600-IVA	Injection valve assembly, complete with and injection nipple, PTFE coated spring, glass valve ball and a valve assembly
PHP-600-FVA	Foot valve assembly contains a filter with a filter holder, and a valve assembly
PHP-600-CW	4 x ceramic weight

Comes complete with discharge and suction valves installed, 7 m (23') polyethylene tubing, and operator's manual.

Add suffix "-220VAC" to model number for 220/240V operation, no additional charge.

**Ordering Examples:** PHP-601, chemical metering pump.

PHP-605, chemical metering pump, and PHP-600-IVA, injection valve assembly.

# PUMP ACCESSORIES FOR PHP-600 AND PHP-700 SERIES



PHP-600-PHK  
shown smaller  
than actual size.



PHP-600-IVA shown  
larger than actual size.

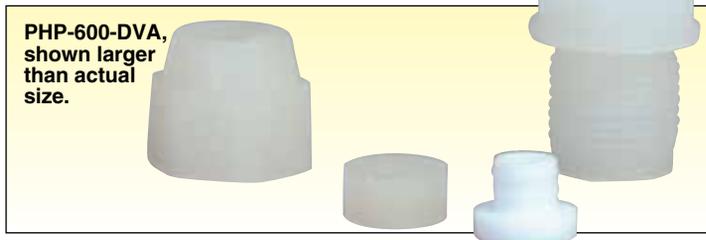


PHP-600-CW shown  
smaller than actual size.

PHP-600-SVA,  
shown larger  
than actual size.



PHP-600-FVA  
shown larger than actual size.



PHP-600-DVA,  
shown larger  
than actual  
size.

## Accessories

Model No.	Description
PHP-600-PHK	Kynar pumphead, PTFE coated O-ring and 6 screws and washers
PHP-600-DVA	Spare discharge valve assembly, complete with a FKM O-ring, glass valve ball, the valve spacer and seat, head nipple and the tube nut to secure the assembled parts
PHP-600-SVA	Spare suction valve assembly, complete with a FKM O-ring, glass valve ball, the valve spacer and seat, head nipple and the tube nut to secure the assembled parts
PHP-600-IVA	Injection valve assembly, complete with and injection nipple, PTFE coated spring, glass valve ball and a valve assembly
PHP-600-FVA	Foot valve assembly contains a filter with a filter holder, and a valve assembly
PHP-600-CW	4 x ceramic weight