



# C-600P

## CHEM-FEED® Diaphragm Metering Pump



### Features

- > All ball bearing, permanently lubricated gear motor for smooth, quiet, powerful operation
- > Double-ball inlet and outlet cartridge type ceramic check valves
- > Stroke adjustment from 4-100% permits accurate small injections at a high rate per minute
- > Fixed speed
- > Mechanical cam



### Highlights

**Flow range**

1 - 21.5 GPH  
4 - 81.4 LPH

**Pressures**

125 PSI  
(8.6 bar)

**Turndown ratio**

27 : 1

**Max. suction lift**

10 ft. Water 0 psig

**Motor**

AC Shaded Pole  
Motor

**Warranty**

1 Year



|                           |                                                                                                                                |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Max. Working Pressure:    | 125 psig (8.6 bar)                                                                                                             |
| Max. Fluid Temperature:   | 130° F (54° C)                                                                                                                 |
| Max. Ambient Temperature: | 14 to 110° F/ -10 to 43° C                                                                                                     |
| Max. Viscosity:           | 1,000 Centipoise                                                                                                               |
| Max. Suction Lift:        | 10 ft. Water at sea level (14.7 atm psi)                                                                                       |
| Operating Voltage:        | 115VAC/60Hz, 1ph (.74 Amp Maximum)                                                                                             |
|                           | 230VAC/60Hz, 1ph (.36 Amp Maximum)                                                                                             |
|                           | 220VAC/50Hz, 1ph (.31 Amp Maximum)                                                                                             |
|                           | 240VAC/60Hz, 1ph (.27 Amp Maximum)                                                                                             |
|                           | 24VAC/60Hz, 1ph (3.40 Amp Maximum)                                                                                             |
|                           | 12VDC (3.00 Amp Maximum) (not available for 250rpm model)                                                                      |
| Power Connection:         | 24VDC (1.50 Amp Maximum)                                                                                                       |
|                           | Junction box for field wiring (except for 200V models)<br>220V models include power cord/plug, and do not include junction box |
| Motor:                    | AC shaded pole                                                                                                                 |
| Duty Cycle:               | Continuous                                                                                                                     |
| Output Adjustment Range:  | 4% – 100% motor speed                                                                                                          |
| Enclosure:                | NEMA 1 (IP20) powder coated zinc                                                                                               |
| Approximate shipping wt:  | 8 lb. (3.63 Kg)                                                                                                                |
| RoHS Compliant:           | Yes                                                                                                                            |
| Standards:                | NSF/ANSI 50, UL, CSA, CE                                                                                                       |

Output Specifications

DC powered models

| Maximum Output at 0 PSI |      |      |        | Strokes/Min | Max PSI |
|-------------------------|------|------|--------|-------------|---------|
| GPD                     | GPH  | LPH  | OZ/MIN |             |         |
| 33                      | 1.4  | 5.3  | 2.9    | 14          | 125     |
| 74                      | 3.1  | 11.7 | 6.5    | 30          | 125     |
| 112                     | 4.7  | 17.8 | 10.0   | 45          | 80      |
| 148                     | 6.2  | 23.5 | 13.2   | 60          | 60      |
| 316                     | 13.2 | 49.9 | 28.1   | 125         | 30      |
| 516                     | 21.5 | 81.4 | 45.8   | 250         | 10      |

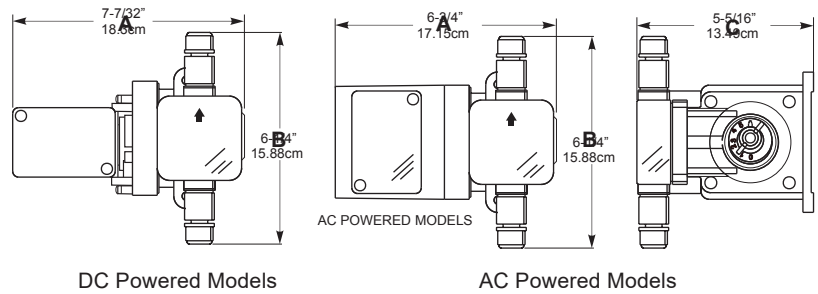
AC powered models

| Maximum Output at 0 PSI |      |      |        | Strokes/Min | Max PSI |
|-------------------------|------|------|--------|-------------|---------|
| GPD                     | GPH  | LPH  | OZ/MIN |             |         |
| 24                      | 1.0  | 3.8  | 2.7    | 14          | 125     |
| 58                      | 2.4  | 9.3  | 5.2    | 30          | 125     |
| 91                      | 3.8  | 14.9 | 8.1    | 45          | 80      |
| 110                     | 4.6  | 17.4 | 9.8    | 60          | 60      |
| 237                     | 9.9  | 37.0 | 21.1   | 125         | 30      |
| 389                     | 16.2 | 61.4 | 34.6   | 250         | 10      |

**NOTE:** For optimum diaphragm life, specify the pump to operate at the lowest possible RPM and pressure.

Dimensions

| Dim | DC Powered Models |       | AC Powered Models |      |
|-----|-------------------|-------|-------------------|------|
|     | Inch              | cm    | Inch              | cm   |
| A   | 7-7/32            | 18.3  | 10-1/4            | 26   |
| B   | 6-1/4             | 15.88 | 7-1/2             | 19   |
| C   | 5-5/16            | 13.49 | 14                | 35.6 |



## Materials of Construction

C600P

### Wetted Components:

#### Pump Head:

PVDF

#### Diaphragm:

PTFE Coated EP

#### Pump Head Inlet/Outlet Valves:

Cartridge Valve Body: PVDF

Tube Adapters: PVDF

Check Balls: Ceramic

Ball Seat O-ring: TFE/P (optional EP)

Static Seal O-ring: FKM (optional EP)

#### Suction Tubing:

Clear PVC

#### Discharge Tubing:

Natural Polyethylene (LLDPE)

Body & Tubing adapter: PVDF (optional PTFE)

Strainer: Polypropylene

#### Suction Footvalve/Strainer:

Check Ball : Ceramic (optional PTFE poppet)

Ball Seat O-ring: TFE/P (optional EP)

Static Seal O-ring: FKM (optional EP)

Body & Insert: Polypropylene (optional PVDF, PTFE)

Check Ball: Ceramic (optional PTFE poppet)

#### Injection/Check Valve:

Spring: Hastelloy C-276

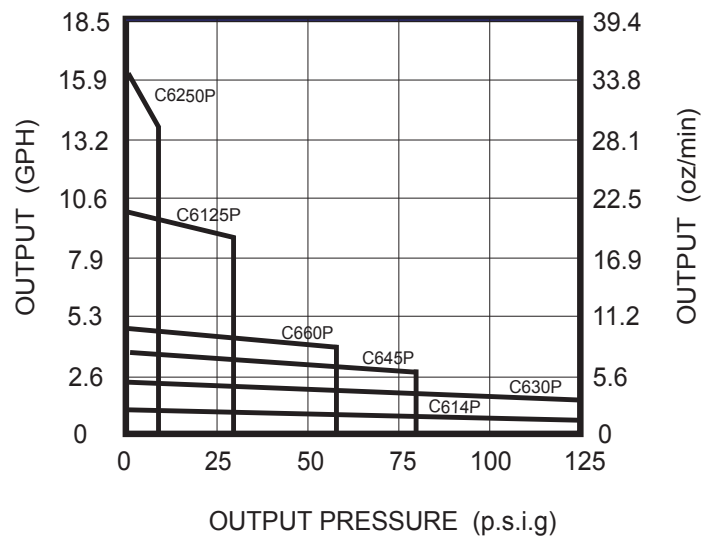
Ball Seat O-ring: TFE/P (optional EP)

Static Seal O-ring: FKM (optional EP)

## Performance

### CHEM-FEED® C-600P Diaphragm Metering Pump

#### Maximum Output vs. Pressure Curve



## Model Number Matrix

C600P

### Model Number

|                                       |                                  |   |   |        |                                   |
|---------------------------------------|----------------------------------|---|---|--------|-----------------------------------|
| C-6 CHEM-FEED® Diaphragm Model Number |                                  |   |   |        |                                   |
| Maximum Motor RPM                     |                                  |   |   |        |                                   |
| 14                                    | 14 RPM                           |   |   | 60     | 60 RPM                            |
| 30                                    | 30 RPM                           |   |   | 125    | 125 RPM                           |
| 45                                    | 45 RPM (Not available in 12V DC) |   |   | 250    | 250 RPM (Not available in 12V DC) |
| Power Supply Voltage <sup>1</sup>     |                                  |   |   |        |                                   |
| 115VAC                                | 115V60Hz                         |   |   | 24VAC  | 24V60Hz                           |
| 220VAC                                | 220V50Hz (20% less output)       |   |   | 12VDC  | 12V DC                            |
| 230VAC                                | 230V60Hz                         |   |   | 24VDC  | 24V DC                            |
| 240VAC                                | 240V60Hz                         |   |   |        |                                   |
| C-6                                   | 14                               | P | - | 115VAC | Sample Model Number               |

1. All models come with junction box only for wiring, except 220V models which include power cord/plug only.

#### Optional Accessories and Components

70000-193 PTFE coated FKM diaphragm  
 90010-110 Power Cord with Plug, 115V  
 K-568A-4 Bullet Valve (Double Ball), Aflas - 4 Pack  
 K-568E-4 Bullet Valve (Double Ball), EP - 4 pack

Visit Accessory Pages for More Options

## Output Specifications

DC powered models

AC powered models

Maximum Output at 0 PSI

| Strokes/Min<br>RPM | Max<br>PSI | GPD | GPH  | LPH  | OZ/MIN |
|--------------------|------------|-----|------|------|--------|
| 14                 | 125        | 33  | 1.4  | 5.3  | 2.9    |
| 30                 | 125        | 74  | 3.1  | 11.7 | 6.5    |
| 45                 | 80         | 112 | 4.7  | 17.8 | 10.0   |
| 60                 | 60         | 148 | 6.2  | 23.5 | 13.2   |
| 125                | 30         | 316 | 13.2 | 49.9 | 28.1   |
| 250                | 10         | 516 | 21.5 | 81.4 | 45.8   |

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| 30                 | 125        | 58  | 2.4  | 9.3  | 5.2    |
| 45                 | 80         | 91  | 3.8  | 14.9 | 8.1    |
| 60                 | 60         | 110 | 4.6  | 17.4 | 9.8    |
| 125                | 30         | 237 | 9.9  | 37.0 | 21.1   |
| 250                | 10         | 389 | 16.2 | 61.4 | 34.6   |

P.N. 85000-055 C-600P

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