

### C-600P

**Fixed Speed  
Mechanical Cam  
Output Adjustment**



### Features:

- All ball bearing, permanently lubricated gear motor for smooth, quiet, powerful operation.
- Double-ball inlet and outlet cartridge type ceramic check valves. Chemical resistant PVDF pump head, valve body and fittings, ceramic balls, FKM static seals and TFE/P ball seat o-rings. No metal springs are used.
- Outputs to 516 GPD.
- Output pressures to 125 PSI.
- Stroke adjustment from 4-100% permits accurate small injections at a high rate per minute. 27:1 turndown
- PTFE coated EP diaphragm.
- Durable metal epoxy coated construction.
- PVDF suction (foot) valve with FKM and TFE/P o-rings, ceramic check ball and removable polypropylene filter screen.
- Includes 3/8" OD x 1/4" ID suction and discharge tubing, Injection fitting with spring-loaded check valve and all mounting hardware.

### Specifications:

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  
Maximum viscosity: .....1,000 Centipoise  
Maximum suction lift: .....10 ft. Water 0 psig  
Output adjustment range: .....4-100% stroke length  
Duty cycle: .....Continuous  
Enclosure: .....NEMA type 1, (IP20)

Voltage (amp draw): .....115VAC/60Hz, 1ph (.74 amp max)  
.....230VAC/60Hz, 1ph (.36 amp max)  
.....220VAC/50Hz, 1ph (.31 amp max)  
.....24VAC/60Hz, 1ph (3.40 amp max)  
.....12VDC (3.00 amp max)  
.....24VDC (1.50 amp max)

Power Connection: .....Junction box for field wiring  
Approximate shipping wt: ...8 lb. (3.6 kg)

### Materials of Construction:

#### Wetted components:

Pump Head: .....PVDF (options: PTFE, Acrylic)  
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)

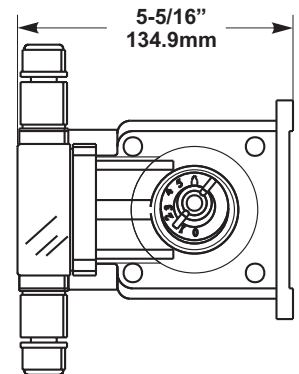
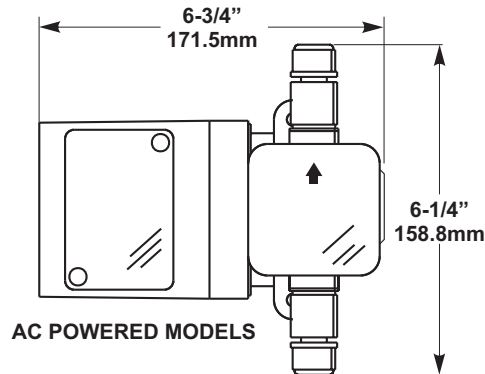
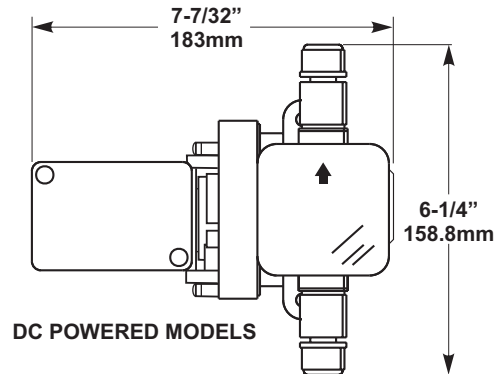
#### Suction Footvalve/Strainer:

Body & Tubing adapter: .....PVDF (optional PTFE)  
Strainer: .....Polypropylene  
Check Ball: .....Ceramic (optional PTFE poppet)  
Ball Seat O-ring: TFE/P (optional EP)  
Static Seal O-ring: .....FKM (optional EP)

#### Injection/Check valve:

Body & insert: .....Polypropylene (optional PVDF, PTFE)  
Check Ball: .....Ceramic (optional PTFE poppet)  
Spring: .....Hastelloy C-276  
Ball Seat O-ring: TFE/P (optional EP)  
Static Seal O-ring: .....FKM (optional EP)

### Dimensions:



### Model Number Matrix:

#### MODEL C-6

| Maximum Motor RPM |               |
|-------------------|---------------|
| 14 = 14 RPM       | 60 = 60 RPM   |
| 30 = 30 RPM       | 125 = 125 RPM |
| 45 = 45 RPM       | 250 = 250 RPM |

#### Pump Head / Wet Parts

P = Heavy duty cartridge style polypropylene head  
 HV = High volume output acrylic head

#### Power Supply Voltage

115VAC = 115V/60Hz  
 220VAC = 220V/50Hz (20% less output)  
 230VAC = 230V/60Hz  
 24VAC = 24V/60Hz  
 12VDC = 12V DC  
 24VDC = 24V DC

### Flow rate and pressure capacities:

#### AC powered models:

| Max Output at 0 PSI |      |      |        | Strokes    | Max | 115V/60Hz      | 230V/60Hz      | 220V/50Hz*     |
|---------------------|------|------|--------|------------|-----|----------------|----------------|----------------|
| GPD                 | GPH  | LPH  | OZ/MIN | Per minute | PSI | Model Number   | Model Number   | Model Number   |
| 24                  | 1.0  | 3.8  | 2.7    | 14         | 125 | C-614P-115VAC  | C-614P-230VAC  | C-614P-220VAC  |
| 58                  | 2.4  | 9.3  | 5.2    | 30         | 125 | C-630P-115VAC  | C-630P-230VAC  | C-630P-220VAC  |
| 91                  | 3.8  | 14.9 | 8.1    | 45         | 80  | C-645P-115VAC  | C-645P-230VAC  | C-645P-220VAC  |
| 110                 | 4.6  | 17.4 | 9.8    | 60         | 60  | C-660P-115VAC  | C-660P-230VAC  | C-660P-220VAC  |
| 237                 | 9.9  | 37.0 | 21.1   | 125        | 30  | C-6125P-115VAC | C-6125P-230VAC | C-6125P-220VAC |
| 389                 | 16.2 | 61.4 | 34.6   | 250        | 10  | C-6250P-115VAC | C-6250P-230VAC | C-6250P-220VAC |

\* Note: 220V/50Hz models deliver approximately 20% less output.

#### DC powered models:

| Max Output at 0 PSI |      |      |        | Strokes    | Max | 12V DC        | 24V DC        |
|---------------------|------|------|--------|------------|-----|---------------|---------------|
| GPD                 | GPH  | LPH  | OZ/MIN | Per minute | PSI | Model Number  | Model Number  |
| 33                  | 1.4  | 5.3  | 2.9    | 14         | 125 | C-614P-12VDC  | C-614P-24VDC  |
| 74                  | 3.1  | 11.7 | 6.5    | 30         | 125 | C-630P-12VDC  | C-630P-24VDC  |
| 112                 | 4.7  | 17.8 | 10.0   | 45         | 80  | N/A           | C-645P-24VDC  |
| 148                 | 6.2  | 23.5 | 13.2   | 60         | 60  | C-660P-12VDC  | C-660P-24VDC  |
| 316                 | 13.2 | 49.9 | 28.1   | 125        | 30  | C-6125P-12VDC | C-6125P-24VDC |
| 516                 | 21.5 | 81.4 | 45.8   | 250        | 10  | N/A           | C-6250P-24VDC |

#### Maximum Output vs. Pressure Curve

