

# 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



# Engineering Specifications

C600P

<b>Max. Working Pressure:</b>	125 psig (8.6 bar)
<b>Max. Fluid Temperature:</b>	130° F (54° C)
<b>Max. Ambient Temperature:</b>	14 to 110° F/ -10 to 43° C
<b>Max. Viscosity:</b>	1,000 Centipoise
<b>Max. Suction Lift:</b>	10 ft. Water at sea level (14.7 atm psi)
<b>Operating Voltage:</b>	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)
<b>Power Connection:</b>	Junction box for field wiring (except for 200V models)
	220V models include power cord/plug, and do not include junction box
<b>Motor:</b>	AC shaded pole
<b>Duty Cycle:</b>	Continuous
<b>Output Adjustment Range:</b>	4% – 100% motor speed
<b>Enclosure:</b>	NEMA 1 (IP20) powder coated zinc
<b>Approximate shipping wt:</b>	8 lb. (3.63 Kg)
<b>RoHS Compliant:</b>	Yes
<b>Standards:</b>	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

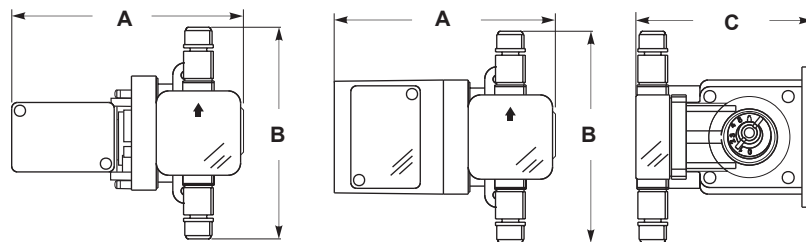
### AC powered models

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
<b>A</b>	7-7/32	18.3	10-1/4	26
<b>B</b>	6-1/4	15.88	7-1/2	19
<b>C</b>	5-5/16	13.49	14	35.6



DC Powered Models

AC Powered Models

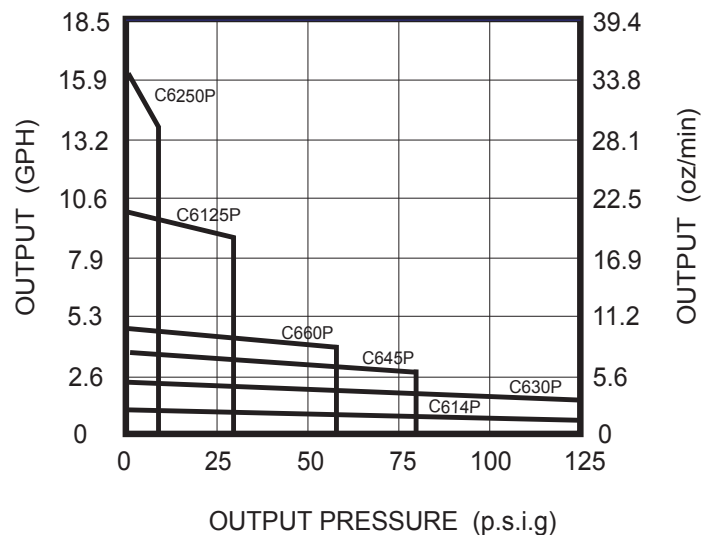
**Wetted Components:**

<b>Pump Head:</b>	PVDF
<b>Diaphragm:</b>	PTFE Coated EP
	Cartridge Valve Body: PVDF
	Tube Adapters: PVDF
<b>Pump Head Inlet/Outlet Valves:</b>	Check Balls: Ceramic
	Ball Seat O-ring: TFE/P (optional EP)
	Static Seal O-ring: FKM (optional EP)
<b>Suction Tubing:</b>	Clear PVC
<b>Discharge Tubing:</b>	Natural Polyethylene (LLDPE)
	Body & Tubing adapter: PVDF (optional PTFE)
	Strainer: Polypropylene
<b>Suction Footvalve/Strainer:</b>	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)
<b>Injection/Check Valve:</b>	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

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

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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

### AC powered models

Maximum Output at 0 PSI					
Strokes/Min RPM	Max PSI	GPD	GPH	LPH	OZ/MIN
14	125	24	1.0	3.8	2.7
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