

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

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)
	24VAC/60Hz, 1ph (3.40 Amp Maximum)
	12VAC/60Hz, 1ph (3.00 Amp Maximum)
24VAC/50Hz, 1ph (1.50 Amp Maximum)	
Power Connection:	Junction box for field wiring
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

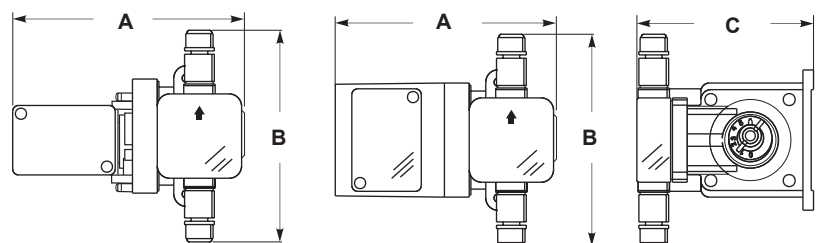
AC powered models

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



DC Powered Models

AC Powered Models

Materials of Construction

C600P

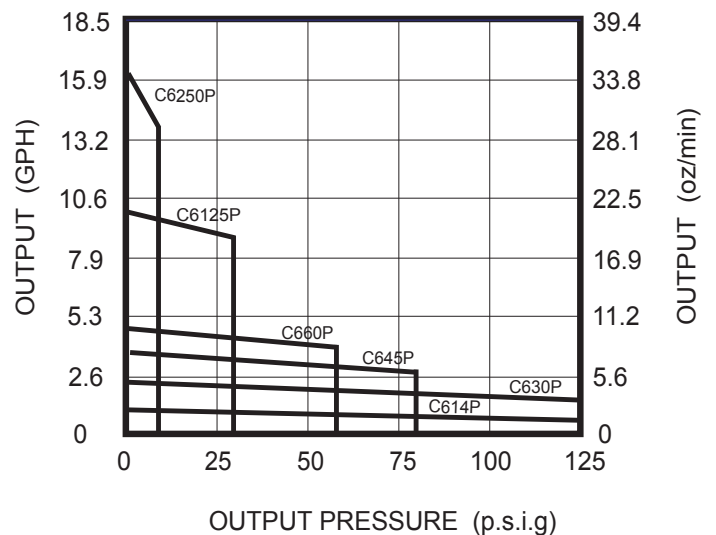
Wetted Components:

Pump Head:	PVDF
	Cartridge Valve Body: PVDF
	Tube Adapters: PVDF
Pump Head Inlet/Outlet Valves:	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	250	250 RPM

Power Supply Voltage

115VAC	115V60Hz	24VAC	24V60Hz
220VAC	220V50Hz (20% less output)	12VDC	12V DC
230VAC	230V60Hz	24VDC	24V DC

C-6 **14** **P** **-** **115VAC** Sample Model Number

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