

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

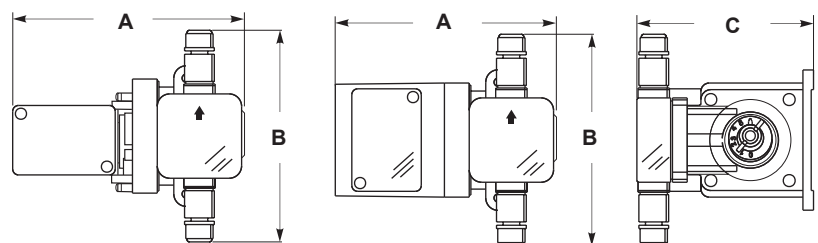
AC powered models

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 (options: PTFE, Acrylic)

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

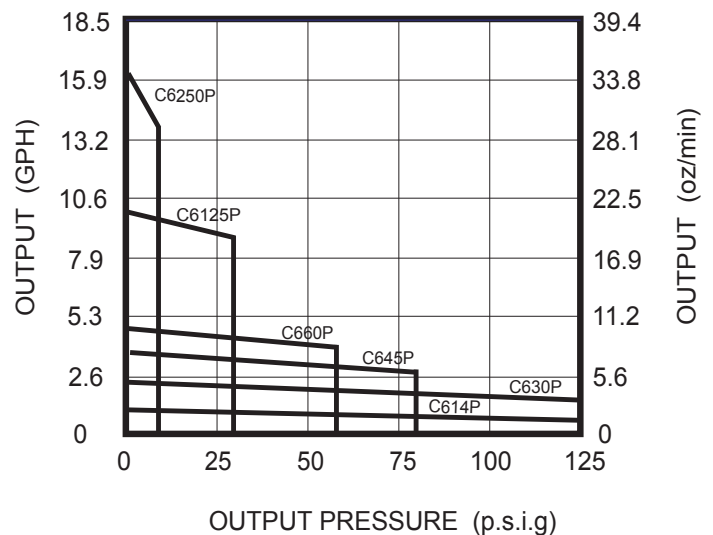
Ball Seat O-ring: TFE/P (optional EP)

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 Model Number

C6	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			
220VAC	220V50Hz (20% less output)			
230VAC	230V60Hz			
24VAC	24V60Hz			
12VDC	12V DC			
24VDC	24V DC			
C6	14	P	115VAC	Sample Model Number