

CHEM-FEED® Diaphragm Metering Pumps

Engineering and Technical Data

Fixed Speed
Dial Knob Control
5 Second Cycle Timer



- Double-ball inlet and outlet cartridge type ceramic check valves. Chemical resistant PVDF pump head, valve body and fitting, ceramic balls, Viton static seals and TFE/P ball seat o-rings. No metal springs are used.
- Stroke adjustment from 5-100% permits accurate small injections at a high rate per minute.
- Adjustable 5 second repeating interval timer. 0.25 - 5.0 second adjustable on time per 5 second cycle.
- Easy to use dial knob adjustment.
- Outputs to 15 GPH (56.8 LPH).
- Output pressures to 150 PSI (10.3 bar).
- PTFE coated EP diaphragm.
- PVDF suction (foot) valve with Viton and TFE/P o-rings, ceramic check ball and removable polypropylene filter screen.
- Includes 3/8" OD suction and discharge tubing, Injection fitting with spring-loaded check valve and all mounting hardware.
- Compatible with Blue-White's output flow verification sensor system.
- Durable housing of chemical resistant Valox (PBT) thermoplastic.

Max. working pressure:150 psig (10.3 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:20 ft. Water 0 psig
Output adjustment range:200:1
 Stroke length:5-100%
 Cycle Timer:5-100%
Duty cycle:Continuous
Enclosure:NEMA 3R, (IP23)
Approximate shipping wt: ...10 lb. (4.2 kg)

Voltage (max amp):

-115VAC/60Hz, 14 & 30 rpm = 1.37 amp
 45, 60, 125, 250 rpm = 1.87 amp
- 230VAC/60Hz, 14 & 30 rpm = 0.64 amp
 45, 60, 125, 250 rpm = 0.74 amp
- 220VAC/50Hz, 14 & 30 rpm = 0.68 amp
 45, 60, 125, 250 rpm = 1.14 amp
- 240VAC/50Hz, 14 & 30 rpm = 0.66 amp
 45, 60, 125, 250 rpm = 1.04 amp

Power Cord Plug Type:

-115V60Hz = NEMA 5/15 (USA)
- 230V60Hz = NEMA 6/15 (USA)
- 220V50Hz = CEE 7/VII (EUROPE)
- 240V50Hz = CEE 7/VII (EUROPE)

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:Viton® (optional EP)
Suction Tubing:Clear PVC
Discharge Tubing:Natural Polyethylene (LLDPE)

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:Viton® (optional EP)

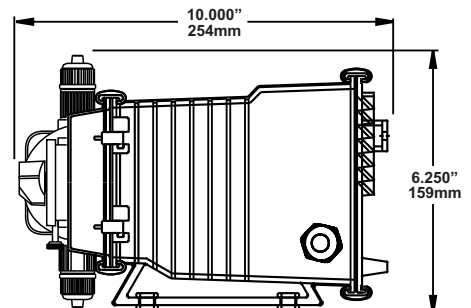
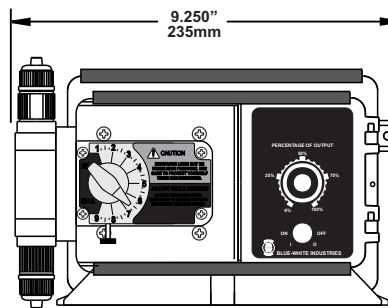
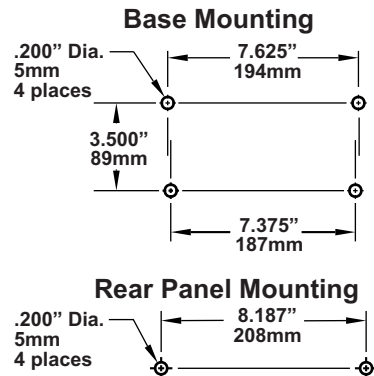
Injection/Check valve:

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:Viton® (optional EP)

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Dimensions:



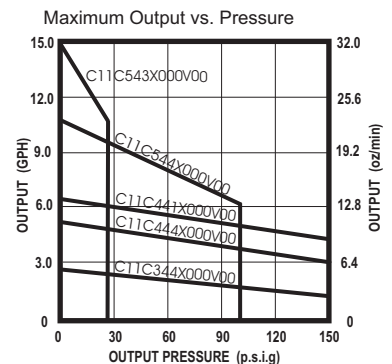
Model Number Matrix:

MODEL C 11 C									
Pump system selection C = Pump without tank system T = Pump mounted on STAR-3 tank			Output Control V = Digital speed control with external input F = Analog speed control C = Analog timer, 5 sec. Cycle - 100% duty A = Analog timer, 60 sec. Cycle - 100% duty E = Digital batch timer with external input X = No output control - fixed feed rate			Maximum Motor RPM 0 = 14 RPM 3 = 60 RPM 1 = 30 RPM 4 = 125 RPM 2 = 45 RPM 5 = 250 RPM			Footvalve / Tank Capacity 0 = C-340 1 = C-345 2 = C-340-6T A = 7 Gallons (U.S.) B = 15 Gallons (U.S.) C = 30 Gallons (U.S.)
Power Supply (motor protection) 4 = 115V/60Hz (TP) 5 = 220V/50Hz (TP)* 6 = 230V/60Hz (TP) 7 = 240V/50Hz (TP)* AS 3112 (Australia/New Zealand) 8 = 230V/50Hz (TP) BS 1363 (UK) TP = Thermal protection			Injection Fitting 0 = A-014N (Polypropylene - ½ lb spring) 1 = C-395N (Polypropylene - 6 lb spring) A = A-014-6T (PTFE - ½ lb spring) B = C-395-6T (PTFE - 6 lb spring) C = A-014NK (PVDF - ½ lb spring) D = C-395NK (PVDF - 6 lb spring)			Elastomer Material V = Viton E = EP			Diaphragm Style 0 = Large PTFE/EP 1 = Large PTFE/Viton 6 = Small PTFE / EP 7 = Small PTFE / EP
Cam Stroke Length 1 = .125" 3 = .187" 2 = .055" 4 = .100"			Pump Head Style 0 = Large Diaphragm 2 = Small Diaphragm 5 = Large Pressure release 7 = Large Diaphragm w/single ball valve			Pump Head Material 0 = Injection molded PVDF 4 = Machined PTFE 5 = Machined Acrylic			
Electrical Options X = Standard Equipment A = Junction box replaces power cord P = Power cord and junction box R = 230V Power cord w/NEMA 6/15 plug Z = Proportional feed system - JBox/Cord									

Flow rate and pressure capacities:

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
57.7	2.4	9.1	5.1	60	150	C11C344X000V00	C11C364X000V00	C11C354X000V00
119.7	4.9	18.9	10.6	125	150	C11C444X000V00	C11C464X000V00	C11C454X000V00
155.9	6.4	24.6	13.8	125	150	C11C441X000V00	C11C461X000V00	C11C451X000V00
260.8	10.8	41.1	23.1	250	100	C11C544X000V00	C11C564X000V00	C11C554X000V00
360.0	15.0	56.8	32.0	250	25	C11C543X000V00	C11C563X000V00	C11C553X000V00

Note: 50Hz units deliver 20% less output PSI



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