

CHEM-FEED® Diaphragm Metering Pumps

Engineering and Technical Data

C-1100F

Variable Speed Dial Knob Control



Features:

- Double-ball inlet and outlet cartridge type ceramic check valves. Chemical resistant PVDF pump head, valve body and fitting, ceramic balls, FKM static seals and TFE/P ball seat o-rings. No metal springs are used.
- Stroke length & speed adjustment for accurate small injections at a high rate per minute. 400:1 turndown ratio.
- Outputs to 15 GPH (56.8 LPH).
- Output pressures to 150 PSI (10.3 bar).
- PVDF suction (foot) valve with FKM and TFE/P o-rings, ceramic check ball and removable polypropylene filter screen.
- PTFE coated EP diaphragm.
- Includes 3/8" OD suction and discharge tubing, Injection fitting with spring-loaded check valve and all mounting hardware.
- Easy to use dial knob speed adjustment.
- Compatible with Blue-White's output flow verification sensor system.
- Durable housing of chemical resistant Valox (PBT) thermoplastic.

Specifications:

Max. working pressure:150 psig (10.3 bar)	Voltage (amp draw):115VAC/60Hz, 1ph (.513 amp max)
Max. fluid temperature:130° F (54° C)	230VAC/60Hz, 1ph (.563 amp max)
Max. Ambient temperature: ...14° to 110° F/-10° to 43° C	220VAC/50Hz, 1ph (.660 amp max)
Maximum viscosity:1,000 Centipoise	240VAC/50Hz, 1ph (.585 amp max)
Maximum suction lift:10 ft. Water 0 psig	Power Cord Plug Type:115V60Hz = NEMA 5/15 (USA)
Output adjustment range:400:1	230V60Hz = NEMA 6/15 (USA)
Stroke length:5-100%	220V50Hz = CEE 7/VII (EUROPE)
Motor speed:5-100%	240V50Hz = CEE 7/VII (EUROPE)
Duty cycle:Continuous	Approximate shipping wt: ...12 lb. (5.4 kg)
Enclosure:NEMA 3R. (IP23)	

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)

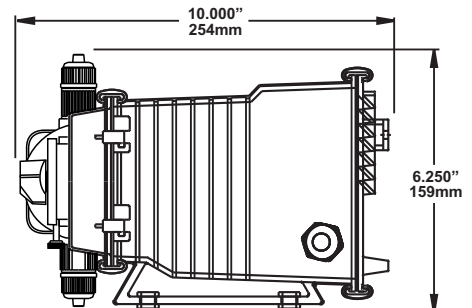
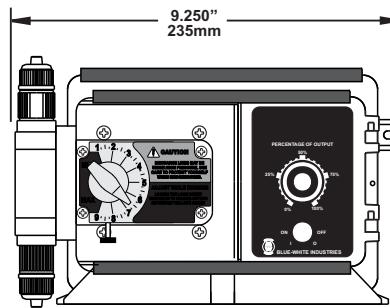
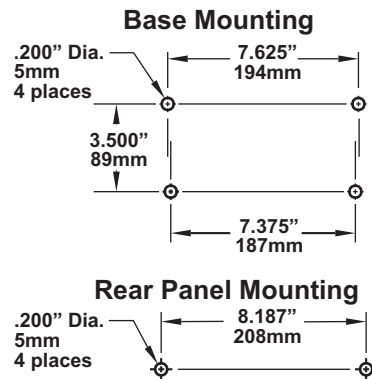
Injection/Check valve:

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)

Blue-White Industries, Ltd.

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Dimensions:



Model Number Matrix:

MODEL C 11 F									
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									
1 = 30 RPM									
2 = 45 RPM									
3 = 60 RPM									
4 = 125 RPM									
5 = 250 RPM									
Power Supply (motor protection)									
4 = 115V60Hz (TP)									
5 = 220V50Hz (TP)									
6 = 230V60Hz (TP)									
7 = 240V50Hz (TP)									
TP = Thermal protection									
Cam Stroke Length									
1 = .125"									
2 = .055"									
3 = .187"									
4 = .100"									
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									