

Blue-White®

Industries, Ltd.

CHEM-FEED® Diaphragm Metering Pumps

Engineering and Technical Data

C-1100A

Fixed Speed
Dial Knob Control
60 Second Cycle Timer



Features:

- Double-ball inlet and outlet cartridge type ceramic check valves. Chemical resistant PVDF 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 60 second repeating interval timer. 3 - 60 second adjustable on time per 60 second cycle.
- Easy to use dial knob adjustment.
- Outputs to 947 ml/min (360 GPD).
- Output pressures to 150 PSI.
- Teflon 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.

Specifications:

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:10 ft. Water 0 psig

Output adjustment range:400:1

Stroke length:5-100%

Cycle Timer:5-100%

Duty cycle:Continuous

Enclosure:NEMA type 2, (Ip21)

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 (U.K)

Materials of Construction:

Wetted components:

Pump Head:Polypropylene (options: Teflon, 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)

Suction Footvalve/Strainer:

Body & Tubing adapter:PVDF (optional Teflon)

Strainer:Polypropylene

Check Ball:Ceramic (optional Teflon poppet)

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

Static Seal O-ring:Viton® (optional EP)

Injection/Check valve:

Body & insert:Polypropylene (optional PVDF, Teflon)

Check Ball:Ceramic (optional Teflon poppet)

Spring:Hastelloy C-276

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

Static Seal O-ring:Viton® (optional EP)

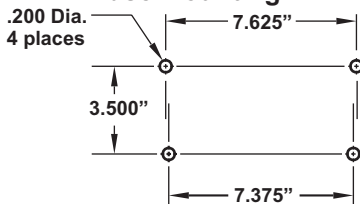
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CHEM-FEED[®] Diaphragm Metering Pumps

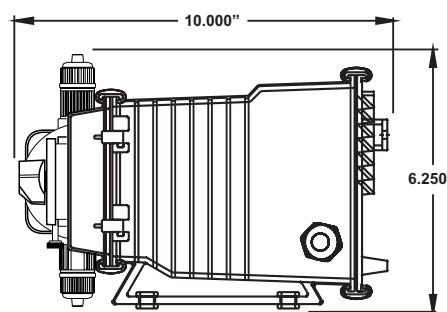
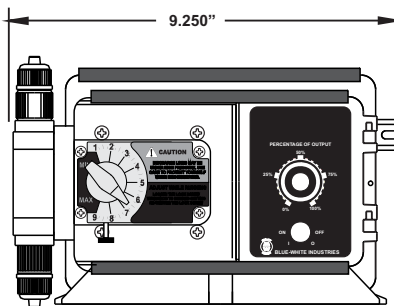
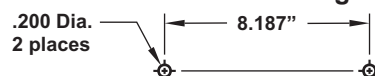
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Dimensions:

Base Mounting



Rear Panel Mounting



Model Number Matrix:

MODEL		C	11	A								
Pump system selection		<ul style="list-style-type: none"> C = Pump without tank system T = Pump mounted on STAR-3 tank 										
Output Control		<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> 0 = 14 RPM 3 = 60 RPM 1 = 30 RPM 4 = 125 RPM 2 = 45 RPM 5 = 250 RPM 										
Power Supply (motor protection)		<ul style="list-style-type: none"> 4 = 115V60Hz (TP) 5 = 220V50Hz (TP) 6 = 230V60Hz (TP) 7 = 240V50Hz (TP) TP = Thermal protection 										
Cam Stroke Length		<ul style="list-style-type: none"> 1 = .125" 3 = .187" 2 = .055" 4 = .100" 										
Electrical Options		<ul style="list-style-type: none"> 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 										
Footvalve / Tank Capacity		<ul style="list-style-type: none"> 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.) 										
Injection Fitting		<ul style="list-style-type: none"> 0 = A-014HD (Polypropylene - ½ lb spring) 1 = C-395HD (Polypropylene - 6 lb spring) A = A-014-6T (Teflon - ½ lb spring) B = C-395-6T (Teflon - 6 lb spring) C = A-014HDK (PVDF - ½ lb spring) D = C-395HDK (PVDF - 6 lb spring) 										
Elastomer Material		<ul style="list-style-type: none"> V = Viton E = EP 										
Diaphragm Style		<ul style="list-style-type: none"> 0 = Large Teflon/EP 1 = Large Teflon/Viton 6 = Small Teflon / EP 7 = Small Teflon / EP 										
Pump Head Style		<ul style="list-style-type: none"> 0 = Large Diaphragm 2 = Small Diaphragm 5 = Large Pressure release 7 = Large Diaphragm w/single ball valve 										
Pump Head Material		<ul style="list-style-type: none"> 0 = Injection molded Polypropylene 4 = Machined Teflon 5 = Machined Acrylic 										

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	C11A344X000V00	C11A364X000V00	C11A354X000V00	
119.7	4.9	18.9	10.6	125	150	C11A444X000V00	C11A464X000V00	C11A454X000V00	
155.9	6.4	24.6	13.8	125	150	C11A441X000V00	C11A461X000V00	C11A451X000V00	
260.8	10.8	41.1	23.1	250	100	C11A544X000V00	C11A564X000V00	C11A554X000V00	
360.0	15.0	56.8	32.0	250	25	C11A543X000V00	C11A563X000V00	C11A553X000V00	

