

# C-1100V Series Metering Pumps

Digital Diaphragm Metering Pumps for Chemical Injection



## Description

The C-1100V Series Metering Pumps are state of the art, digitally controlled diaphragm pumps designed for precise chemical metering. The C-1100 pumps are loaded with advanced features including: a user friendly touch pad and LCD display, external control inputs, stroke length and speed control,  $\pm 1\%$  full scale repeatability, and injection into piping systems against pressures up to 150 psi (10.4 bar).

## Reliable Operation

The C-1100V is designed for reliable and consistent operation with oversize PVDF double-stage check valves, a built in priming/degassing valve, and a durable powder coated aluminum housing.

## Pump Control and Alarm Relay

The C-1100V includes a front-mounted mechanical flow rate adjustment, and is also equipped with an external input control circuitry that allows the pump to be controlled externally by either a 4-20 mA input signal or a pulsed input signal. The C-1100V includes a diaphragm failure detection system that will shut down the pump and trigger an alarm long before you get a troublesome chemical spill. In addition, the C-1100V is compatible with Blue-White's exclusive Flow Verification System (FVS). The FVS Micro-Flow device will shut down the pump and trigger an alarm if the flow of chemical stops because of an empty tank, clogged valve, or anything that might prevent the flow of liquid through the pump system.

## What's in the Box

Each C-1100V pump ships complete with 10' of suction and discharge tubing, a suction strainer/foot valve with ceramic weight, and an injection/check valve assembly. Please note that you should always check for chemical compatibility with the wet end materials before ordering a pump.

## Specifications

Max. Working Pressure	175 psig (12.1 bar)
Max. Fluid Temperature	130°F (54°C)
Max. Ambient Temperature	14 to 115°F (-10 to 46.1°C)
Output Adjustment Range	5 to 100% in 1% increments
Duty Cycle	Continuous
Maximum Viscosity	1,000 Centipoise
Maximum Suction Lift	15' water, 0 psig (4.5 m, 0 bar)
Enclosure	NEMA 4X, (IP66)
Shipping Weight	29 lbs (13 kg)
Dimensions	10-1/2 x 6-1/4 x 10" (26.7 x 15.9 x 25.4 cm)

## Materials

Diaphragm	Teflon® (Teflon coated hypalon)
Pump Head & Adapters	PVDF (natural)
Injection/Check Valve	Body & insert: PVDF (natural) Check Ball: Ceramic Spring: Hastelloy C-276
Elastomers (O-ring)	Viton® (optional EP)
Footvalve/Strainer	PVDF/Polypropylene (natural)
Suction Tubing	PVC (clear)
Enclosure & Pump Head Cover	413 aluminum (powder coated)
Cover Screws	300 stainless steel
DFD System Sensor Pins	Hastelloy C-276
Power Cord	3 conductor, SJTW-A Water-resistant
Mounting Brackets	Stainless steel

## Features

- User friendly touch pad controls and LCD display
- Built in diaphragm failure detection system
- Highly accurate and repeatable chemical dosing
- Can be externally paced by a flowmeter, analyzer, or other device
- Works with the Flow Verification System

## Applications

Ideal for applications requiring precise water, wastewater, and industrial chemical metering.

## Ordering & Options

### C3F 115 VAC/60 Hz Models

Order No.	Max gpd <sup>1</sup>	Max psi <sup>2</sup>
C-11V141X000V00	38.0	150
C-11V344X000V00	57.7	150
C-11V341X000V00	73.0	150
C-11V444X000V00	119.7	150
C-11V441X000V00	155.9	150
C-11V544X000V00	260.8	100

### C3F 220 VAC/50 Hz Models

Order No.	Max lph <sup>1</sup>	Max bar <sup>2</sup>
C-11V151X000V00	6.0	10.34
C-11V354X000V00	9.1	10.34
C-11V351X000V00	11.5	10.34
C-11V454X000V00	18.9	10.34
C-11V451X000V00	24.6	10.34
C-11V554X000V00	41.1	6.89

1) Maximum liquid output at zero backpressure.

2) Maximum pressure output.

## Replacement Parts

Order No.	Description
C-406VT-15N	Diaphragm, Teflon Coated EP
C-535A6-6	Pump Head Kit w/Valves & Diaphragm
C-535	Pump Head
K-568A-6A	Inlet & Outlet Valve Kit
C-340A	Foot Valve/Suction Strainer
A-014N-6A	Injection/Anti-siphon Valve Assembly
K-568A-4	4-pack of Check Balls for Inlet/Outlet Valves
700000-638	5' Suction Tubing w/Flow Indicator

## Regional Distributor



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The Leader in Water Instrumentation

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