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Дозировочные насосы Global Water

Технические характеристики



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 (10.3 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 an exclusive Flow Verification System (FVS). The FVS Micro-Flow device (see page 99) 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 ft (3 m) 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 ft 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 inch (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

Ordering & Options

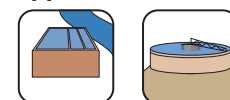
C1100V 115 VAC/60 Hz Models

Order No.	Max gpd ¹	Max psi ²
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

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 a Flow Verification System

Applications



Ideal for water treatment and conditioning, wastewater treatment, rural water systems, and cooling tower and boiler treatment.

C1100V 220 VAC/50 Hz Models

Order No.	Max lph ¹	Max bar ²
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	6.9

1) Maximum liquid output at zero backpressure.

2) Maximum pressure output.

Replacement Parts

Order No.	Description
C-406VT-15N	Diaphragm, Teflon Coated EP
C-535A-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 ft Suction Tubing w/Flow Indicator

A-100NE Pumps

Fixed Speed Digital Peristaltic Pumps

Description

A-100NE Series Peristaltic Pumps are loaded with features that make them the ideal choice for a variety of water, wastewater, and industrial chemical metering applications. Most features are shared with the A-100NV, the main difference being that the A-100NE is a fixed speed metering pump with digital timer control.

Digital Timer Control

The A-100NE has four operating modes including manual on time per cycle adjustment, pulse input batching, 4-20mA on time per cycle adjustment, and 0-10VDC on time per cycle adjustment. The repeating interval on time cycle timer is programmable in seconds, minutes, hours, and days resulting in a near infinite turndown ratio. The 4-20mA on time per cycle adjustment mode allows you to control the cycle adjustment via 4-20mA input signal. The digital interval timer allows you to set up a high frequency of small injections per minute.

Specifications

Max. Working Pressure	100 psig (6.9 bar)
Max. Fluid Temperature	130°F (54°C)
Max. Ambient Temperature	14 to 110°F (-10 to 43°C)
Output Adjustment Range	Adjustable 0.1 to 99 seconds
Duty Cycle	Continuous
Maximum Viscosity	5,000 Centipoise
Maximum Suction Lift	30 ft water, 0 psig
Maximum Solids	50% by volume
Enclosure	NEMA type 3R, (IP23)
Shipping Weight (Approx.)	10 lbs (4.5 kg)
Dimensions	6-1/8 x 10-1/8 x 9 inch (15.6 x 25.7 x 22.9cm)

Materials

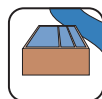
Same as A-100NV.



Features

- Auto-detects tube failure
- Self priming
- Programmable repeating interval on-time cycle timer
- Digital interval timer for high frequency of small injections per minute

Applications



Ideal for a variety of water, wastewater, and industrial chemical treatment applications.

Ordering & Options

A-100NE 115 VAC/60 Hz Models

Order No.	Max GPD ¹	Max PSI ²	Tube OD (inch)
A1N10E-4T	4.9	100	1/4
A1N20E-4T	8.0	100	1/4
A1N10E-6T	16.0	100	3/8
A1N20E-6T	24.0	100	3/8
A1N10E-7T	52.5	50	7/16
A1N30E-7T	95.1	50	7/16

A-100NE 220 VAC/50 Hz Models

Order No.	Max ¹ ml/min	Max BAR ²	Tube OD (cm)
A1N11E-4T	13	6.9	0.635
A1N21E-4T	21	6.9	0.635
A1N11E-6T	42	6.9	0.953
A1N21E-6T	63	6.9	0.953
A1N11E-7T	138	3.4	1.11
A1N31E-7T	250	3.4	1.11

1) Maximum liquid output at zero backpressure.

2) Maximum pressure output.

Replacement Pump Tubes

Order No.	Pump Suffix	Tube OD
A-002N-4T	-4T	1/4 inch (0.635 cm)
A-002N-6T	-6T	3/8 inch (0.953 cm)
A-002N-7T	-7T	7/16 inch (1.11 cm)

Replacement Parts

Order No.	Description
A-014N-6A	Injection/Check Valve Assembly for 3/8 in (0.953 cm) OD tubing
C-340A	Strainer/Foot Valve Assembly for 1/4 in (0.635 cm) or 3/8 in (0.953 cm) OD tubing

Flow Verification System

Sensor for Monitoring Chemical Flows



Features

- Detects loss of chemical flow
- Installs directly on A-100NE, A-100NV, and C-1100V metering pumps
- Easy, three-wire connection made in the pump's junction box
- No special connectors to buy and no calibration required

Description

The Micro-Flow Flow Verification System (FVS) can be connected directly to A-100NE, A-100NV, C-1100V, and C3 (pages 96-99) metering pumps to verify that a chemical is actually flowing. The FVS works with the pump's sophisticated electronics to constantly monitor chemical flow. If the chemical should fail to inject, the pump will stop and an alarm relay will close allowing for remote alarm indication or initiation of a back-up injector pump.

Specifications

Max. Working Pressure	150 psig (10.3 bar) @ 70°F (21°C)
Max. Fluid Temp	200°F (93°C) @ 0 PSI
Material	PVDF (Body, Paddle, Axle, Connector)
O-Ring Seals	Viton
Compression Seal to Pump	PVC
Weight	1 lb (0.45 kg) (Approx. Shipping)

Ordering & Options

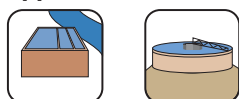
Order No.	gpd	ml/min
FV-100-6V	11.4 to 114	30 to 300
FV-200-6V	38.0 to 380	100 to 1000
FV-300-6V	76.0 to 760	200 to 2000
FV-400-6V	114 to 1140	300 to 3000
FV-500-6V	190 to 1900	500 to 5000
FV-600-6V	266 to 2660	700 to 7000



Features

- High capacity chemical metering to 833 gpd (131.4 lph)
- Output pressures to 175 PSI
- Precise digital control system with LCD display
- Built-in Diaphragm Failure Detection (DFD) system
- Compatible with an exclusive Flow Verification System
- Rugged and reliable design

Applications



Ideal for applications including water and wastewater treatment, agriculture, plating and metal finishing, larger HVAC systems, and more.

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 ft water, 0 psig (4.5 m, 0 bar)
Enclosure	NEMA 4X, (IP66)
Shipping Weight (Approx.)	29 lbs (13 kg)
Dimensions	13-18 x 9 x 8 inch (32.3x22.8x20.3 cm)

Materials

Enclosure	413 aluminum (powder coated)
Pump Head Cover	413 aluminum (powder coated)

CHEM-PRO™ C3 Series Pumps

Digital Chemical Diaphragm Metering Pumps

Description

CHEM-PRO™ C3 Series pumps are designed for accurate and reliable high capacity chemical metering. The C3 pumps are well suited for many applications, including water and wastewater treatment, agriculture, plating and metal finishing, and larger HVAC systems.

The C3 features precise digital control and a user friendly digital touch pad with a large backlit LCD display. Built to be rugged and reliable, the C3 pumps have oversized PVDF double ball valves, a priming/degassing valve built into the PVDF pump head, and a weather-resistant housing made of durable, powder coated aluminum.

Chemical Spill Alarming

The C3 pumps feature a built in Diaphragm Failure Detection (DFD) system, which senses chemical leakage in the pump head and shuts off the pump before you have a troublesome chemical spill. The DFD system triggers a relay that may be connected to an external alarm or autodialer, such as Global Water's AD200 Voice Alarm Autodialer (see page 138).

Cover Screws	300 stainless steel
DFD System Sensor Pins	Hastelloy C-276
Power Cord	3 conductor, SJTW-A Water-resistant
Mounting Brackets	Stainless steel
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
Footvalve/Strainer	PVDF/Polypropylene (natural)
Suction Tubing	PVC (clear)
Warranty	2 year

The C3 pumps also accept an exclusive Flow Verification System (FVS). The optional FVS Micro-Flo sensor (see page 99) will shut down the pump and trigger an alarm if the chemical flow 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 CHEM-PRO C3 pump ships complete with a priming valve/pressure relief valve (located on pump head), pump head adapters, foot valve/strainer with ½ inch ceramic ball and ½ inch barbed adapter, injection/check valve fitting with ½ inch ceramic ball and one ½ inch barbed adapter, 10 feet of ½ inch clear PVC suction tubing, and mounting brackets with screws.

Please note that you should always check for chemical compatibility with the wet end materials before ordering a pump.

Ordering & Options

C3F 115 VAC/60 Hz Models

Order No.	Max gpd ¹	Max psi ²
C3F141XVA	118	175
C3F241XVA	270	150
C3F142XVA	350	150
C3F242XVA	833	80

C3F 220 VAC/50 Hz Models

Order No.	Max lph ¹	Max bar ²
C3F161XVA	18.6	12
C3F261XVA	42.6	10.3
C3F162XVA	55.2	10.3
C3F262XVA	131.4	5.5

1) Maximum liquid output at zero backpressure.

2) Maximum pressure output.

Replacement Parts & Accessories

Please call us for parts and accessories.

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