

CHEM-PRO™ C3 Series Pumps

Digital Chemical Diaphragm Metering Pumps



Description

The 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. The C3 pumps also accept the exclusive Flow Verification System (FVS). The optional FVS Micro-Flo device 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 1/2" ceramic ball and 1/2" barbed adapter, injection/check valve fitting with 1/2" ceramic ball and one 1/2" barbed adapter, 10 feet of 1/2" 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.

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 (Approx.)	29 lbs (13 kg)
Dimensions	13-1/8 x 9 x 8" (322.7 x 228 x 203.2mm)

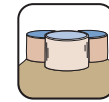
Materials

Enclosure	413 aluminum (powder coated)
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
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

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 the 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.

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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The Leader in Water Instrumentation

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