

C3

CHEM-FEED® Diaphragm Metering Pump



Features

- > Diaphragm Failure Detection system senses diaphragm failure.
- > Exclusive Patent pending Dia-Flex® PVDF single-layer diaphragm
- > Signal inputs include: 4-20mA, pulse inputs, and Remote start/stop
- > Signal outputs include: Relay (3 amp), 4-20mA (optional), Motor Status
- > Protective LCD snap-on cover, (UV, in field wear and tear)





Highlights

Exclusive	Motor	Warranty
.99 - 154 LPH	(10.3 bar)	
.262 - 40.6 GPH	150 PSI	100 : 1
Flow range	Pressures	Turndown ratio

Brushed

DC Motor

Control Methods

Diaphragm Failure Detection

Control Methods	Manual Control	4-20mA Input	Remote Start/Stop	Alarm Output	FVS	Motor Status Output	Frequency Input	Pulse Batching
C3F	•		•	•	•			
C3V	•	•	•	•	•	•	•	•



2 Years

Engineering Specifications

Maximum Working Pressure	150 psig (10.3 bar)		
Maximum Fluid Temperature	130 °F (54 °C)		
Maximum Ambient Temperature	14 °F to 110 °F (-10 °C to 46 °C)		
Maximum Viscosity	1,000 Centipoise 15 ft. Water, 0 psig (4.5 m, 0 bar)		
Maximum Suction Lift			
	115VAC/60Hz, 1ph (1.5 Amp Maximum)		
	230VAC/60Hz, 1ph (0.7 Amp Maximum)		
Operating Voltage	220VAC/50Hz, 1ph (1.0 Amp Maximum)		
	240VAC/50Hz, 1ph (1.0 Amp Maximum)		
	230VAC/50Hz, 1ph (1.0 Amp Maximum)		
	115V60Hz = NEMA 5/15 (USA)		
	230V60Hz = NEMA 6/15 (USA)		
Power Cord Options	220V50Hz = CEE 7/VII (EU)		
	240V50Hz = AS 3112 (Australia/New Zealand)		
Duty Cycle	Continuous		
Motor Speed Adjustment Resolution	100:1, (1.0% – 100% motor speed) Max. rpm = 130 Backlit LCD, UV resistant Positive action tactile switch keypad 29 lb. (13.1 Kg) NEMA 4X (IP66), Polyester powder coated aluminum.		
Display			
Keypad			
Product Weight			
Enclosure			
RoHS Compliant	Yes		
Standards	cETLus, CE		

Output Specifications

Feed Rate Ra	ange at 0 PSIg	Max Pressure	CAM Stroke Length	
GPH	LPH	PSI (bar)	_	
.262 - 26.2	.99 - 99	150 (10.3)	.060" (1.52 mm) stroke with large diaphragm	
.406 - 40.6	1.54 - 154	100 (6.8)	.100" (2.54 mm) stroke with large diaphragm	

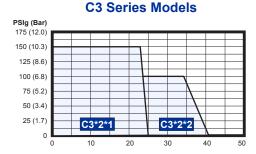
Materials of Construction

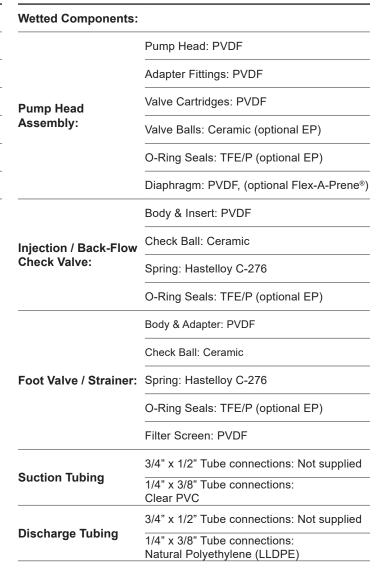
Non-wetted Components:			
Enclosure: 413 Aluminum (Polyester powder coated)			
Pump Head: PVDF			
Cover Screws: 300 Series stainless steel			
DFD System Sensor pins: Hastelloy C-276			
Power Cord: 3 conductor, SJTW-A water-resistant			
Mounting Brackets and Hardware: 316 Stainless steel			

Performance

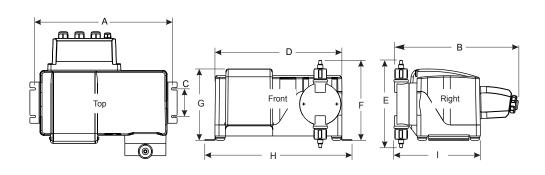
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NOTE: All tests performed after approximately 30 minutes tube break-in period.





Dimensions



Dim	Inch	cm
Α	14.1"	35.8
В	12"	29.2
С	2.5"	6.4
D	13.1"	33.2
E	9"	20.1
F	7.8"	19.8
G	6.5"	16.4
Н	15"	38
I	8"	20.3

Model Number

Diaphragm metering pump **Series** F Single manual output control (manual/local control only) Multiple automatic input output control and alarm modes (remote control) Input Voltage 115V / 60Hz, power cord NEMA 5/15 plug (US) 8 240V / 50HZ, power cord AS 3112 plug (AU/New Zealand) 5 230V / 60Hz, power cord NEMA 6/15 plug (US) 9 230V / 50HZ, power cord BS 1363 plug (UK) 220V / 50HZ, power cord CEE 7/VII plug (EU) CAM Stroke Length and Diaphragm Size .060" (1.52 mm) stroke with large diaphragm .100" (2.54 mm) stroke with large diaphragm 2 **Electrical Options** Standard equipment 4-20mA output signal, requires "V" series control **Elastomer Material (o-rings)** TFE/P EP (Ethylene Propylene) **Fitting Connection Types** 1/2" Hose Barb Inlet, 1/2" Male NPT Outlet, with 1/2" Male NPT Injection Fitting В 1/2" Hose Barb Inlet, 1/2" Female NPT Outlet, with 1/2" Male NPT Injection Fitting С 1/2" Hose Barb Inlet and Outlet, with 1/2" ID Hose Barb Injection Fitting Ε 1/2" Male NPT Inlet and Outlet, with 1/2" Male NPT Injection Fitting 1/2" Female NPT Inlet and Outlet, with 1/2" Male NPT Injection Fitting Miscellaneous Options (leave blank for standard model) Hastelloy C check valve balls, standard injection fittings В Single 1/2" ceramic ball & Hastelloy C spring P/head check valve for viscous fluids s Flex-A-Prene® Diaphragms (Caustic Soda resistant diaphragms) Н PTFE balls (double ball check valve, injection fitting) low viscosity/density fluids only

Sample Model Number

