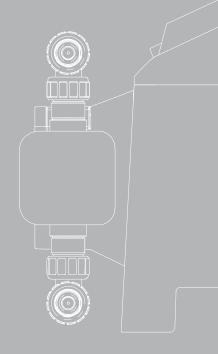


MUNICIPAL

Diaphragm Metering Pumps

CATALOG 2025



Blue-White®

C₂

CHEM-FEED® Diaphragm Metering Pump



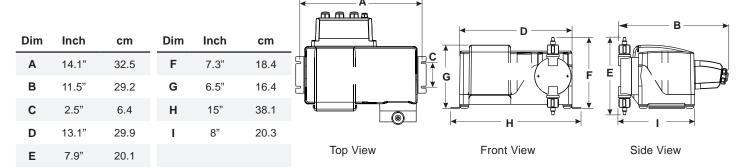
- > Built-in leak detection (DFD) senses diaphragm failure
- > Patented DiaFlex® offers zero breakdown, reducing maintenance
- > 4-20mA input and Frequency input on V model
- > Heavy duty PVDF pump head and valves are standard

Highlights

Flow range	Pressures up to	Turndown ratio	Suction lift
.02 - 16.5 GPH	175 PSI	100 : 1	15 ft.
.1 - 62.5 LPH	(12 bar)		(at sea level)

Exclusive	Motor	Weight	Warranty
Diaphragm Failure	Brushed	24 lb.	2 Years
Detection (DFD)	DC Motor	(10.9 kg)	

Dimensions



NOTE: Optional Extended Bracket adds 4.5" (11.43cm) to overall height (dimension F and G).

What's in the box

C2 Diaphragm Metering Pump Discharge injection fitting with check valve

Option "A,B,C" - 1/2" ID x 3/4" OD tubing pump head

- 1/2" hose barb injector 1/2" hose barb foot valve
- Tubing and hose clamp

Option "D" - 1/4" ID x 3/8" OD Tubing pump head

- Suction foot valve and ceramic weight
- Injector, suction tubing 10 ft.
- discharge tubing 10ft.

Option "E" – ½" M/NPT inlet and outlet, with ½" M/NPT injection fitting

• ½" M/NPT injector • ½" M/NPT foot valve

Option "F" – ½" F/NPT inlet and outlet, with ½" M/NPT injection fitting

• ½" M/NPT injector • ½" M/NPT foot valve Mounting hardware kit

Junction box connectors

QR Code link to Operating Manual



Index Website **Product Page** Replacement Parts Accessories

Model Number Matrix

Model Number

C2 Diaphragm metering pump

Series

- 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) 240V / 50HZ, power cord AS 3112 plug (AU/New Zealand)
- 230V / 60Hz, power cord NEMA 6/15 plug (US) 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 small diaphragm | .10-10 GPH | 175 PSI
- 2 .060" (1.52 mm) stroke with large diaphragm | .165-16.5 GPH | 175 PSI
- 3 .040" (1.02 mm) stroke with small diaphragm | .067-6.7 GPH | 175 PSI
- .040" (1.02 mm) stroke with Micro-Feed | .02-2.3 GPH | 150 PSI
- .060" (1.52 mm) stroke with Micro-Feed | .04-4.0 GPH | 150 PSI

Electrical Options

X Standard equipment

Elastomer Material (o-rings)

TFE/P

Fitting Connection Types

1/2" Hose Barb Inlet, 1/2" Male NPT Outlet, with 1/2" Male NPT Injection Fitting

EP (Ethylene Propylene)

- 1/2" Hose Barb Inlet, 1/2" Female NPT Outlet, with 1/2" Male NPT Injection Fitting
- 1/2" Hose Barb Inlet and Outlet, with 1/2" ID Hose Barb Injection Fitting
- 3/8" OD Tube Compression Inlet, Outlet, and 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

Diaphragm Type

(Blank) Standard DiaFlex® Diaphragm

S Flex-A-Prene® Diaphragm (Caustic Soda resistant diaphragm)

F 2

Sample Model Number

Accessories



Wall Mount Bracket, HDPE



71000-555

PVDF INJECTOR, 1/4" ID tubing 71000-579

PVDF INJECTOR.1/2" Hose Barb 71000-577

PVDF INJECTOR,1/2" MNPT

Visit Accessory Pages for More Options



C-334-6-10

Suction Tubing, Clear PVC 1/4"x 3/8", 10 ft C-335-6-25

Discharge Tubing, PE, 1/4" x 3/8", 25 ft 76001-361

Suction Tubing, Clear PVC, 1/2" ID, 8ft 90008-437

Discharge Tubing, Braided PVC, 1/2" ID

Ball Check Cartridge Options

C2

20000-228

Ball Check Cart. Hastelloy Balls 20000-229

Ball Check Cart. PTFE Balls

70001-409 (2 req.)

Ball Check Cart., Single Ceramic Ball with Hastelloy Spring

C3

CHEM-FEED® Diaphragm Metering Pump

Blue White 1000 CHEMFEED

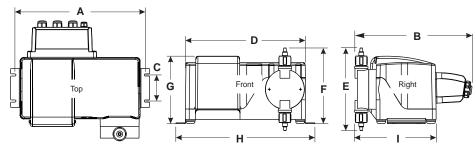
- > Built-in leak detection (DFD) senses diaphragm failure
- > Exclusive Patented DiaFlex® diaphragm
- > Signal inputs include: 4-20mA ("V" Model), pulse inputs ("V" Model), and Remote start/stop
- > Signal outputs include: Relay (3 amp) and 4-20mA ("V" Model)

Highlights

Flow range	Pressures up to	Turndown ratio	Suction lift
.262 - 40.6 GPH .99 - 154 LPH	150 PSI (10.3 bar)	100 : 1	15 ft. Water, 0 psig (4.5 m, 0 bar)
Exclusive	Motor	Weight	Warranty
Diaphragm Failure Detection (DFD)	Brushed DC	31 lb. (14.06 Kg)	2 Years

Dimensions

Dim	Inch	cm	Dim	Inch	cm
Α	14.1"	35.8	F	7.8"	19.8
В	12"	30.5	G	6.5"	16.5
С	2.5"	6.4	Н	15"	38.1
D	13.1"	33.3	1	8"	20.3
E	9"	22.9			



NOTE: Optional Extended Bracket adds 4.5" (11.43cm) to overall height (dimension F and G).

What's in the box-

C2 Diaphragm Metering Pump Discharge injection fitting with check valve

Option "A", "B" - 1/2" ID x 3/4" OD tubing pump head

- 1/2" M/NPT injector 1/2" hose barb foot valve
- Tubing and hose clamp

Option "C" - 1/2" ID x 3/4" OD tubing pump head

- 1/2" hose barb injector 1/2" hose barb foot valve
- Tubing and hose clamp

Option "E" – $1\!\!\!/2$ " M/NPT inlet and outlet, with $1\!\!\!/2$ " M/NPT injection fitting

• 1/2" M/NPT injector • 1/2" M/NPT foot valve

Option "F" – $\frac{1}{2}$ " F/NPT inlet and outlet, with $\frac{1}{2}$ " M/NPT injection fitting

• ½" M/NPT injector • ½" M/NPT foot valve Mounting hardware kit Junction box connectors

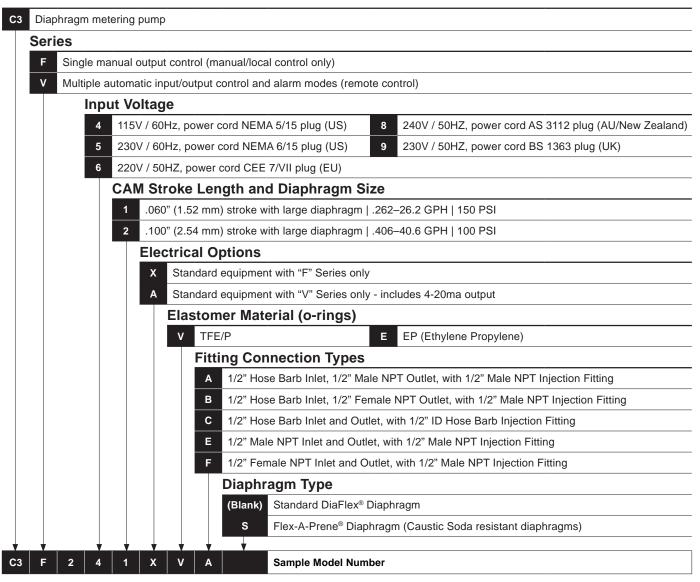
QR Code link to Operating Manual



Index Website **Product Page** Replacement Parts Accessories

Model Number Matrix

Model Number



Accessories







PVDF INJECTOR,1/2" MNPT



C-334-6-10

Suction Tubing, Clear PVC 1/4"x 3/8", 10 ft C-335-6-25

Discharge Tubing, PE, 1/4" x 3/8", 25 ft 76001-361

Suction Tubing, Clear PVC, 1/2" ID, 8ft 90008-437

Discharge Tubing, Braided PVC, 1/2" ID

Ball Check Cartridge Options

C3

20000-228

Ball Check Cart. Hastelloy Balls 20000-229

Ball Check Cart. PTFE Balls

70001-409 (2 req.)

Ball Check Cart., Single Ceramic Ball with Hastelloy Spring

Visit Accessory Pages for More Options

Accessories

MD1

CHEM-FEED® Multi-Diaphragm Metering Pump

- > Diaphragm Failure Detection system senses diaphragm failure
- > Display shield protects pump controls in harsh environments
- > Exclusive Patented DiaFlex® diaphragm
- > Remote Start/Stop, non-powered dry contact closure
- > Relay outputs: single 250V/3A (TFD/FVS) relay, motor running contact closure
- > SCADA I/O: 4-20 mA input, 4-20 mA output
- > Straight and Elbow fitting options (1/4" x 3/8" tube connections, 1/2" MNPT, 1/2" Hose Barb)



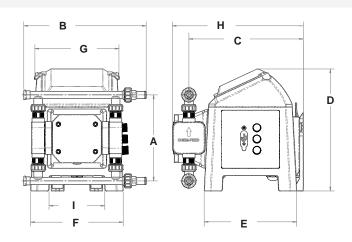
Highlights

Flow range	Pressures up to	Turndown ratio	Suction lift
.0008 - 8.0 GPH	150 PSI	10,000 : 1	20 ft.
.003 - 30.3 LPH	(10.3 bar)		(at sea level)
(at 0 PSI)			

Exclusive	Motor	Weight	Warranty
Diaphragm Failure	Brushless	8.5 lb.	5 Years
Detection (DFD)	DC Motor	(3.8 kg)	

Dimensions

Dim	Inch	cm	Dim	Inch	cm
Α	6.67"	16.94	F	7.18"	18.23
В	9.49"	24.10	G	6.52"	16.55
С	8.87"	22.54	Н	10.40"	26.41
D	9.46"	24.02	1	4.32"	10.98
E	7.18"	18.23			



What's in the box

MD1 Multi-Diaphragm Metering Pump Discharge injection fitting with check valve

Suction foot valve

Suction ceramic weight

Mounting hardware kit

Display shield

Instruction manual

Optional Accessories not included: Suction Tubing, Discharge Tubing, M12 connector cables.

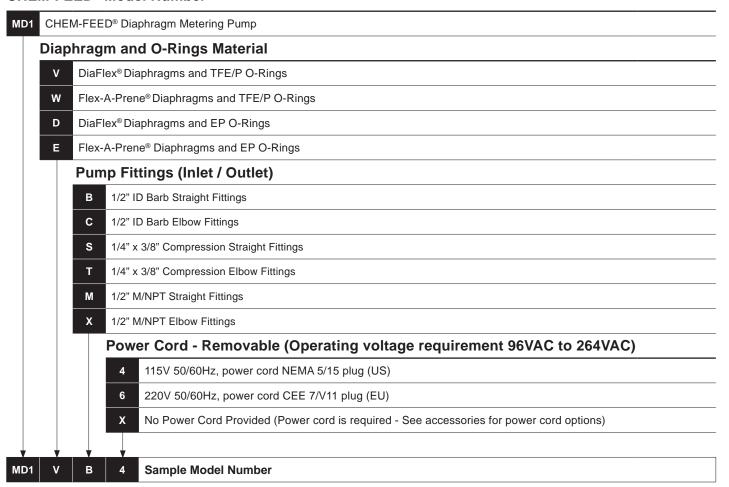


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Model Number Matrix

MD1

CHEM-FEED® Model Number

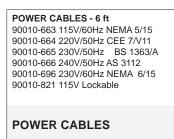


Accessories













KIT-CQA (Aflas) / KIT-CQE (EP) QUICK CONNECT KIT MD1

Teflon Ball Check Cartridge Valve Kit (PVDF body, TFE/P O-rings, PTFE balls) 4 cartridges included.

KIT-DVA1-P PTFE Ball Check

MD3

CHEM-FEED® Multi-Diaphragm Metering Pump

- > Diaphragm Failure Detection system senses diaphragm failure
- > Exclusive Patented DiaFlex® diaphragm
- > Smooth chemical dosing, no pulsation dampener needed
- > Near pulseless flow diaphragm metering
- > Signal inputs include: 4-20mA, pulse inputs, and Remote Start/Stop
- > Communications Protocols: Ethernet IP, Profibus DP, Modbus TCP

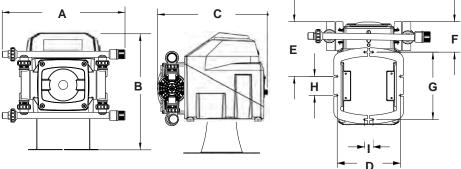


Highlights

Flow range	Pressures up to	Turndown ratio	Suction lift
.03 - 52.6 GPH	145 PSI	2,000:1	19 ft.
.10 - 199 LPH	(10 bar)		(at sea level)
(at 0 PSI)			

Exclusive	Motor	Weight	Warranty
Diaphragm Failure	Brushless	53 lb.	5 Years
Detection (DFD)	DC Motor	(24 04 kg)	

Dimensions



Dim	Inch	cm	Dim	Inch	cm
Α	16.13"	40.97	F	4.00"	10.15
В	16.29"	41.37	G	8.86"	22.50
С	14.12"	35.86	Н	2.50"	6.35
D	8.30"	21.08	1	1.10"	2.79
E	7.24"	18.37			

What's in the box-

MD3 Multi-Diaphragm Metering Pump

Suction foot valve, PVDF, 1/2" MNPT or 1/2" Hose Barb

Mounting hardware kit, including extended mounting brackets Fitting Kit (model specific)

- 1/2" M/NPT Elbow connections, or
- 1/2" M/NPT Straight connections, or
- 1/2" Hose barb Straight connections, or 1/2" Hose Barb Elbow connections
- Union nuts

Quick Start Guide

Not included: Injector, Suction Tubing, Discharge Tubing, M12 Cables



Index Website Product Page Replacement Parts Accessories

Model Number Matrix

CHEM-FEED® Model Number

MD3S CHEM-FEED® Multi-Diaphragm Metering Pump

Maximum Strokes per Minute

2 380 SPM (190 RPM)

Input Voltage / Power Cord

- 4 115V / 60Hz, power cord NEMA 5/15 plug (US)
- 5 230V / 60Hz, power cord NEMA 6/15 plug (US)
- 6 220V / 50HZ, power cord CEE 7/VII plug (EU)
- 8 240V / 50HZ, power cord AS 3112 plug (Australia/New Zealand)
- 9 230V / 50HZ, power cord BS 1363/A plug (United Kingdom)
- X No Power Cord (Pump requires power cord. See accessories for other power cord options)

Stroke Length / Diaphragm Size

.090" Stroke - Large Diaphragm

Electrical

Standard Equipment - C13 power cord connector, six M12 signal connectors, Ethernet/Modbus port & Profibus M12 connector.

Elastomer Material (O-Rings)

- V DiaFlex® Diaphragms and TFE/P O-rings (For most chemicals. Not compatible with Sodium Hydroxide and Aqueous Ammonia)
 - Flex-A-Prene® Diaphragms and EPDM O-rings (for Sodium Hydroxide and Aqueous Ammonia)

Pump Head Fittings and Foot Valve

- X 1/2" M/NPT Elbow Fittings & 1/2" M/NPT Footvalve
- M 1/2" M/NPT Straight Fittings & 1/2" M/NPT Footvalve
- B 1/2" Barb Straight Fittings & 1/2" Barb Footvalve
- c 1/2" Barb Elbow Fittings & 1/2" Barb Footvalve

MD3S 2 4 4 X V X Sample Model Number

Accessories









76001-361Suction Tubing, Clear PVC, 1/2" ID, 8ft **90008-437**

Discharge Tubing, Braided PVC, 1/2" ID

Ball Check Cartridge Options

MD3

20000-229 (2 req.) Ball Check Cart. PTFE Balls

20000-228 (2 req.)

Ball Check Cart. Hastelloy Balls 70001-409 (4 req.)

Ball Check Cart., Single Ceramic Ball with Hastelloy Spring



KIT-M12
Two M12 Cables - 9.8 ft.



KIT-DP3 Profibus Cable, 3 ft

90010-663 115V/60Hz NEMA 5/15 90010-664 220V/50Hz CEE 7/V11 90010-665 230V/50Hz BS 1363/A 90010-666 240V/50Hz AS 3112 90010-696 230V/60Hz NEMA 6/15 90010-711 115V Lockable

POWER CABLES - 6 ft



DIAPHRAGM PUMP WARRANTY

LIMITED WARRANTY

Your Blue-White product is a quality product and is warranted for a specific time from date of purchase (proof of purchase is required). The product will be repaired or replaced at our discretion. Failure must have occurred due to defect in material or workmanship and not as a result of operation of the product other than in normal operation as defined in the product manual. Warranty status is determined by the product's serial label and the sales invoice or receipt. The serial label must be on the product and legible. The warranty status of the product will be verified by Blue-White or a factory authorized service center.

CHEM-FEED® C2 and C3 pumps are warranted for 2 years from date of purchase (proof of purchase is required). CHEM-FEED® MD1 and MD3 pumps are warranted for 5 years from date of purchase (proof of purchase is required). Pumps will be repaired or replaced at our discretion.

WHAT IS NOT COVERED

- Rubber components and wear components. Diaphragms, ball checks, O-rings, etc. They are perishable and require periodic replacement.
- Pump removal, or re-installation, and any related labor charge.
- Freight to the factory, or service center.
- Products that have been tampered with, or in pieces.
- Damage resulting from misuse, carelessness such as chemical spills on the enclosure, abuse, lack of maintenance, or alteration which is out of our control.
- Damage by faulty wiring, power surges or acts of nature.

BLUE-WHITE does not assume responsibility for any loss, damage, or expense directly or indirectly related to or arising out of the use of its products. Failure must have occurred due to defect in material or workmanship and not as a result of operation of the product other than in normal operation as defined in the pump

Warranty status is determined by the pump's serial label and the sales invoice or receipt. The serial label must be on the pump and legible. The warranty status of the pump will be verified by Blue-White or a factory authorized service center.

PROCEDURE FOR IN WARRANTY REPAIR

Warranty service must be performed by the factory or an authorized service center. Contact the factory or local repair center to obtain a RMA (Return Material Authorization) number. It is recommended to include foot strainer and injection/ check valve fitting since these devices may be clogged and part of the problem. Decontaminate, dry, and carefully pack the product to be repaired. Please enclose a brief description of the problem and proof of purchase. Prepay all shipping and insurance cost. COD shipments will not be accepted. Damage caused by improper packaging is the responsibility of the sender. When In-Warranty repair is completed, the factory pays for return shipping to the dealer or customer.

PRODUCT USE WARNING

Blue-White products are manufactured to meet the highest quality standards in the industry. Each product instruction manual includes a description of the associated product warranty and provides the user with important safety information. Purchasers, installers, and operators of Blue-White products should take the time to inform themselves about the safe operation of these products. In addition, Customers are expected to do their own due diligence regarding which products and materials are best suited for their intended applications. BLUE-WHITE is pleased to assist in this effort but does not guarantee the suitability of any particular product for any specific application as Blue-White does not have the same degree of familiarity with the application that the customer/end user has. While BLUE-WHITE will honor all of its product warranties according to their terms and conditions, Blue-White shall only be obligated to repair or replace its defective parts or products in accordance with the associated product warranties.

BLUE-WHITE SHALL NOT BE LIABLE EITHER IN TORT OR IN CONTRACT FOR ANY LOSS OR DAMAGE WHETHER DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL, ARISING OUT OF OR RELATED TO THE FAILURE OF ANY OF ITS PARTS OR PRODUCTS OR OF THEIR NONSUITABILITY FOR A GIVEN PURPOSE OR APPLICATION.

CHEMICAL RESISTANCE WARNING

BLUE-WHITE offers a wide variety of wetted parts. Purchasers, installers, and operators of Blue-White products must be well informed and aware of the precautions to be taken when injecting or measuring various chemicals, especially those considered to be irritants, contaminants or hazardous. Customers are expected to do their own due diligence regarding which products and materials are best suited for their applications, particularly as it may relate to the potential effects of certain chemicals on Blue-White products and the potential for adverse chemical interactions. Blue-White tests its products with water only. The chemical resistance information included in this instruction manual was supplied to BLUE-WHITE by reputable sources, but Blue-White is not able to vouch for the accuracy or completeness thereof. While BLUE-WHITE will honor all of its product warranties according to their terms and conditions, Blue-White shall only be obligated to repair or replace its defective parts or products in accordance with the associated product warranties.

BLUE-WHITE SHALL NOT BE LIABLE EITHER IN TORT OR IN CONTRACT FOR ANY LOSS OR DAMAGE, WHETHER DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL, ARISING OUT OF OR RELATED TO THE USE OF CHEMICALS IN CONNECTION WITH ANY BLUE-WHITE PRODUCTS.

Users of electrical and electronic equipment (EEE) with the WEEE marking per Annex IV of the WEEE Directive must not dispose of end of life EEE as unsorted municipal waste, but use the collection framework available to them for the return, recycle, recovery of WEEE and minimize any potential effects of EEE on the environment and human health due to the presence of hazardous substances. The WEEE marking applies only to countries within the European Union (EU) and Norway. Appliances are labeled in accordance with European Directive 2002/96/EC. Contact your local waste recovery agency for a Designated Collection Facility in your area.