

C-1500N

CHEM-FEED® Diaphragm Metering Pump



Features

- > All ball bearing, permanently lubricated gear motor
- > Standard Models feature a mechanical stroke length control
- > Efficient design allows for a minimum stroke length of 5%
- > Mechanically driven diaphragm provides reliable flow
- > Double ball check cartridges enhance reliability and repeatability



Highlights

Flow range

.3 - 9.5 GPH
.6 - 36 LPH

Pressures

125 PSI
(8.6 bar)

Turndown ratio

20 : 1

Max. suction lift

10 ft. Water 0 psig

Motor

AC Shaded
Pole

Warranty

1 Year

Control Methods / Flow Options

	Manual On/Off Control	Motor Speeds	Stroke Lengths	Diaphragm Sizes
C-1500N	•	4	4	2



Engineering Specifications

C-1500N

Max. working pressure:	125 psig (8.6 bar) (refer to pump curves for exact specifications)
Max. fluid temperature:	130° F (54° C)
Max. Ambient temperature:	14 to 110° F/ -10 to 43° C
Maximum viscosity:	1,000 Centipoise
Maximum suction lift:	10 ft. Water at sea level (0 psi)
Operating Voltage:	115VAC/60Hz, 1ph (.74 Amp Maximum)
	230VAC/60Hz, 1ph (.36 Amp Maximum)
	220VAC/50Hz, 1ph (.31 Amp Maximum)
	240VAC/50Hz, 1ph (.29 Amp Maximum)
	24VAC/60Hz, 1ph (3.4 Amp Maximum)
Power Cord Options:	115V60Hz = NEMA 5/15 (USA)
	230V60Hz = NEMA 6/15 (USA)
	220V50Hz = CEE 7/VII (EU)
	240V50Hz = AS 3112 (AU)
Motor:	AC shaded pole
Duty cycle:	Continuous
Stroke adjustment range	5% – 100% (20:1)
Enclosure:	NEMA 3R (IP23) Valox
Maximum Overall Dimensions:	4.5" X 9.062" X 5.750" (11.4 W x 23 H x 14.6 D cm)
Product weight:	7lb. (3.18 Kg)
Approximate shipping wt:	13 lb. (3.63 Kg)
RoHS Compliant:	Yes
Standards:	NSF 50, cETLus, CE

Output Specifications

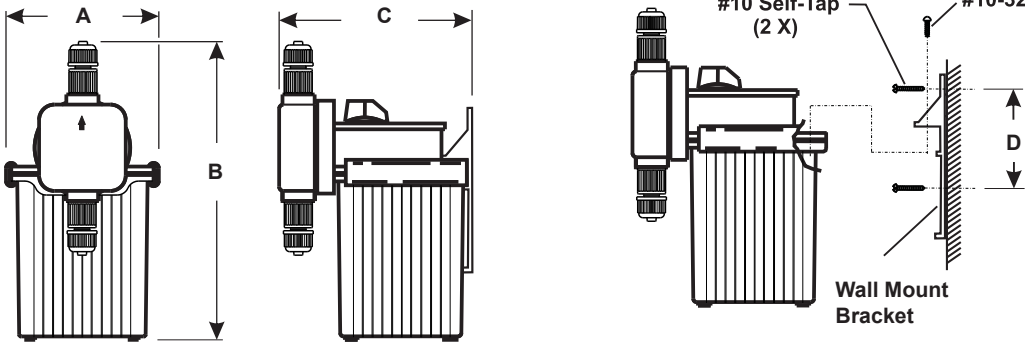
Model Number	Max Strokes Per Minute	Diaphragm	Stroke length	Maximum Output at 0 PSI				Max PSI
			Inch	GPD	GPH	LPH	OZ/MIN	
C15N102X026V00	30	small	.055	8.3	0.3	1.3	0.7	125
C15N302X026V00	60	small	.055	16.3	0.6	2.5	1.4	125
C15N202X000V00	45	large	.055	26.6	1.1	4.2	2.4	125
C15N402X026V00	125	small	.055	34.2	1.4	5.4	3.0	25
C15N204X000V00	45	large	.100	49.0	2.0	7.7	4.3	125
C15N304X000V00	60	large	.100	57.7	2.4	9.1	5.1	125
C15N402X000V00	125	large	.055	68.4	2.8	10.8	5.9	125
C15N404X000V00	125	large	.100	119.7	4.9	18.9	10.6	70
C15N401X000V00	125	large	.125	155.9	6.4	24.6	13.8	20
C15N443X000V00	125	large	.187	228.1	9.5	36.0	20.2	10

NOTE: For optimum diaphragm life, specify the pump to operate at the lowest possible RPM and pressure.

Wetted Components:		
Pump Head:	PVDF	Body & Tubing Adapter : PVDF (optional PTFE)
Pump Head Inlet / Outlet Valves:	Cartridge Valve Body : PVDF	Strainer: Polypropylene
	Tube Adapters : PVDF	Check Balls : Ceramic
	Check Balls : Ceramic	Ball Seat O-Ring : TFE/P (optional EP)
	Ball Seat O-Ring : TFE/P (optional EP)	Static Seal O-Ring : FKM (optional EP)
Suction Tubing:	Clear PVC	Body & Insert : Polypropylene (optional PVDF, PTFE)
	Clear PVC Body, Glass Ball (Carwash models use 316 SS ball)	Check Ball : Ceramic (optional PTFE poppet)
Flow Indicator:		Spring : Hastelloy C-276
Discharge Tubing:	Natural Polyethylene (LLDPE)	Ball Seat O-Ring : TFE/P (optional EP)
		Static Seal O-Ring : FKM (optional EP)

Dimensions

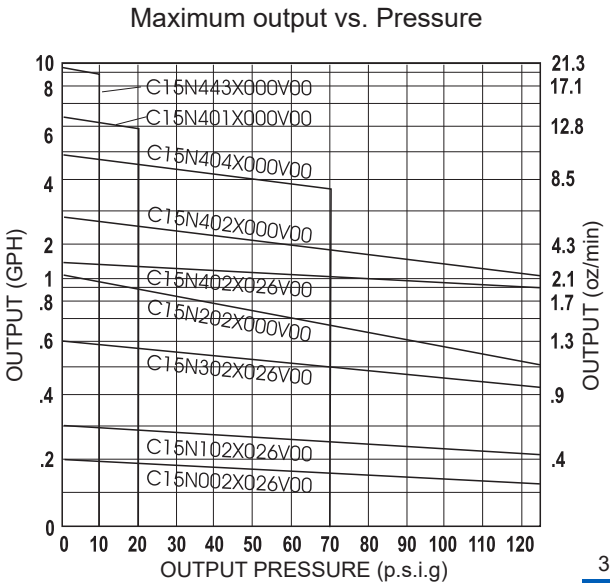
Dim	Inch	cm
A	4.50"	11.43
B	9.06"	23.01
C	5.75"	14.61
D	2.30"	5.84



Performance

CHEM-FEED® C-1500N Diaphragm Pump

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



Model Number Matrix

C-1500N

C15N				0						Sample Model Number
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Maximum Motor RPM

1 = 30 RPM

2 = 45 RPM

3 = 60 RPM

4 = 125 RPM

Power Supply (motor protection)

0 = 115V60Hz(IP) 7 = 24V50Hz(none)*

1 = 220V50Hz
(20% less output) (IP)

2 = 230V60Hz (IP)

3 = 24V60Hz (IP)

4 = 115V60Hz(TP)

5 = 220V50Hz(TP)

6 = 230V60Hz(TP)

8 = 240V50Hz(TP)

IP = Impedance protection,
TP = Thermal protection *Intermittent duty only

Cam Stroke Length

1 = .125"

2 = .055"

3 = .187"

4 = .100"

Output Control & Electrical

X = Standard Equipment

A = Junction Box Replaces Power Cord

Pump Head Material

0 = Injection molded PVDF

Footvalve

0 = C-340A (PVDF/Polypropylene)

1 = C-345A (PVDF/Polypropylene - bulkhead mount)

Injection Fitting

0 = A-014N (Polypropylene - 1/2 lb spring)

1 = C-395N (Polypropylene - 6 lb spring)

7 = A-014PN (PP1/2 lb short depth)

8 = C-395PN (PP 6 lb spring)

X = None

Elastomer Material

V = FKM

E = EP

Diaphragm Style

0 = Lg. PTFE/EP

6 = Sm. PTFE/EP

Pump Head Style

0 = Lg. Diaphragm

2 = Sm. Diaphragm

4 = Lg. Diaphragm Carwash

6 = Sm. Diaphragm Carwash

Optional Accessories and Components

A-014NK-6A PVDF Injector (1/2 psi spring)
C-395NK-6A PVDF Injector (6 psi spring)
C-406VT-15N Large Diaphragm, PTFE/FKM
R-106VT-15N Small Diaphragm PTFE/FKM
Contact Factory for alternate bullet cartridge options

Visit Accessory Pages for More Options