

Pulsafeeder Technology

Since 1936, Pulsafeeder has been the global leader in fluids handling technology and innovation in chemical dosing. Pulsafeeder has built a foundation of success with thousands of installations in fluid handling applications. Our extensive product breadth enables us to provide the convenience and efficiency of single-source solutions across various industries.

With manufacturing and distribution facilities located around the globe, Pulsafeeder ensures the availability of its products and service world wide to meet customers' fluid handling needs. Pulsafeeder's manufacturing facilities are world-class. Continually investing in the latest production equipment and manufacturing techniques maximizes control of product quality, manufacturing efficiency and production cost for fast, effective response to customers needs. Pulsafeeder manufactures and supplies equipment, systems, and accessories that compliment each other and provide the assurance that each piece of equipment will operate at maximum efficiency.

Omni Series Pumps

The OMNI series is designed to be an economical, compact, rugged, simple, and reliable diaphragm metering pump. It features an industrial design to work in just about any application. OMNI series pumps are a reliable alternative for the customer looking for a simple and compact diaphragm metering pump. These reliable metering pumps are designed to perform in the widest range of chemical dosing applications.

Product Specifications

- Flows to 3600 l/h (951 gph) at 60 Hz
- Pressures to 10.3 Bar (150 psi)
- Accuracy +/- 2% of flow
- Temperatures to 65°C (150°F)
- Viscosity up to 1000 CPS
- Maximum 3 m (10ft) NPSH
- Maximum Suction
 Pressure 5 psi or .4 bar less than design pressure

Materials of Construction

- Head materials in PVDF, 316 SS, and PP
- Ball Valves Ceramic, and 316 SS
- Diaphragm PTFE faced Hypalon

Typical Applications

- Acids
- Caustics
- Polymers
- Bleaches
- pH Control
- Solvents
- Dyes/Inks
- Catalysts
- Cleaning agents
- And many more

Markets



Chemical



Food & Beverage



Pharmaceutical



Mining



Paints & Dyes



Petroleum



Petrochemical



Pulp & Paper



Power & Energy



Water Treatment



General Industries



Steel Industry



Metering Pumps

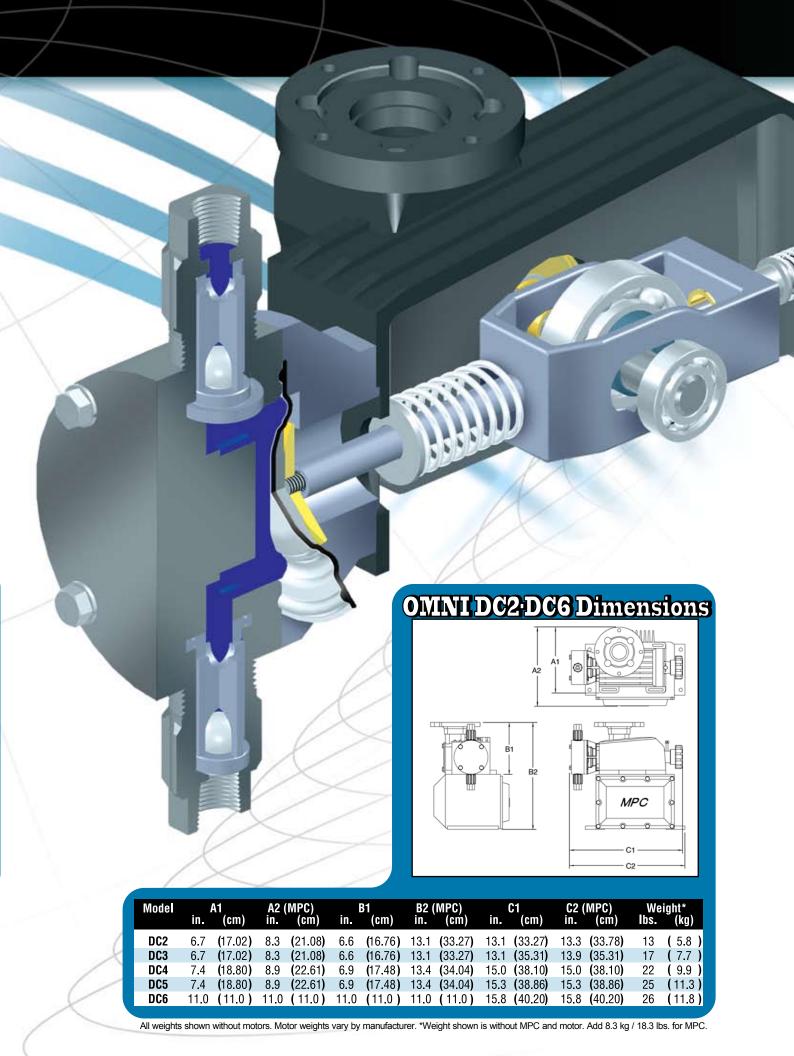
OMNI Metering Pumps and Controls are the economical standard for a reliable chemical feed pump with virtually no maintenance. The OMNI offers the following user friendly benefits:

- **Metering Accuracy** To +/- 2% of flow
- Turndown Capacity
 Adjustable up to 1000:1 with MPC controls on selected models
- Oil Free
 Greased for life no oil to buy or change
 (DC2-6, DC7 has oil bath)
- Compact and Lightweight Saves space and easy handling
- Controller Ready
 Add an MPC when automatic pump control is required

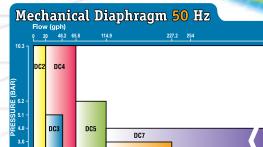
- Simple Design
 Easy to install and operate
- Highly Efficient
 Quiet and cool, standard fan cooled motor design
- Liquid End Materials PVDF, PP, & 316 SS
- Rugged Construction
 Intended for indoor or outdoor service if protected from precipitation & direct sunlight.

OMNI Wetend Material Details

Wetend Configuration	Model	Connection	Head	Guide	Sealing O-rings	Balls	Seats	Ball Seat O-ring
	DC2	1/4" NPT						
	DC3 DC4	1/2" NPT/BSPT			PTFE		PVDF	n/a
PVDF	DC5 DC6	1" NPT/BSPT	PVDF	PVDF	11112		1 701	πα
	DC7	1 1/2" NPT & ANSI Flange 1 1/2"/DIN40 Flange			Viton		PVDF (O-ring Seat)	Viton
	DC2 DC3 DC4	n/a	n/a	n/a	n/a		n/a	n/a
PP	DC5 DC6	1" NPT/BSPT	PP	PP	PTFE	0 .	PVDF	
	DC7	1 1/2" NPT & ANSI Flange 1 1/2"/DIN40 Flange	rr	rr	Viton	Ceramic	PP (O-ring Seat)	Viton
	DC2	1/4" NPT					TFE	
316 SS	DC3 DC4	1/2" NPT/BSPT	316 SS	316 SS	316 SS		316 SS	n/a
	DC5 DC6	1" NPT/BSPT						
	DC7	n/a	n/a	n/a	n/a		n/a	





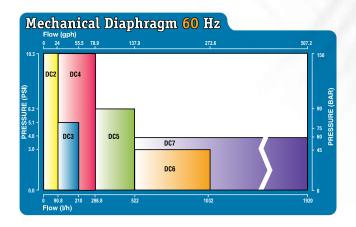


DC6

0 75.7 175 249 Flow (I/h)

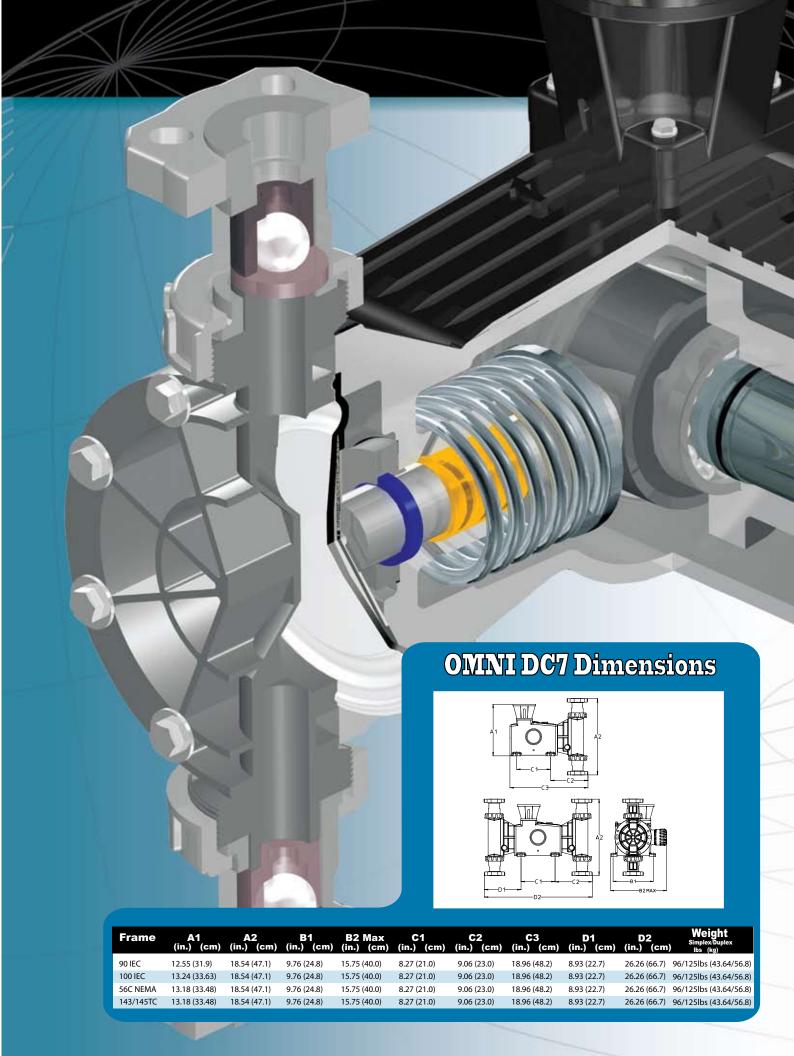
OMNI Performance 50Hz

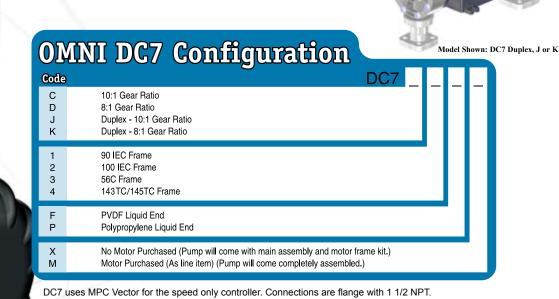
Model		z Flow (GPH)	Pres	sure	SPM @ 50 Hz	Po	wer
	1450 RPM	940 RPM	Bar	PSI	1450 (940) RPM	KW	HP
DC 2A	22 (5.8)	22 (3.8)	10.3	150	37 (24)	0.18	0.25
DC 2B	44 (11.7)	44 (7.6)	10.3	150	73 (47)	0.18	0.25
DC 2C	76 (20)	75.7 (13)	10.3	150	125 (81)	0.18	0.25
DC 3B	102 (27)	102 (17.5)	5.1	75	73 (47)	0.18	0.25
DC 3C	177 (47)	175 (30)	5.1	75	125 (81)	0.18	0.25
DC 4B	132 (35)	128 (22.6)	10.3	150	98 (64)	0.37	0.5
DC 4C	205 (54)	195 (35)	10.3	150	146 (95)	0.37	0.5
DC 4D	261 (69)	249 (45)	10.3	150	186 (121)	0.37	0.5
DC 5C	341 (90)	320 (58)	6.2	90	146 (95)	0.37	0.5
DC 5D	435 (115)	435 (75)	6.2	90	186 (121)	0.37	0.5
DC 6C	670 (177)	690 (115)	3	45	146 (95)	0.37	0.5
DC 6D	840 (222)	860 (144)	3	45	186 (121)	0.37	0.5
DC 7C	1200 (317)	1300 (206)	4	60	146 (95)	1.1	1.5
DC 7D	1500 (396)	1600 (257)	4	60	186 (121)	1.1	1.5
DC 7J Duplex	2400 (634)	2600 (411)	4	60	146 (95)	1.1	1.5
DC 7K Duplex	3000 (793)	3200 (514)	4	60	186 (121)	1.1	1.5



OMNI Performance 60Hz

Model	60 Hz Flow LPH (GPH)		Pressu	ire	SPM @ 60 Hz	Power	
	1725 RPM	1140 RPM	Bar P	PSI	1725 (1140 RPM)	KW	HP
DC 2A	26.5 (7)	17.5 (4.6)	10.3 1	50	44 (29)	0.18	0.25
DC 2B	53 (14)	35 (9.3)	10.3 1	50	88 (58)	0.18	0.25
DC 2C	91 (24)	60 (16)	10.3 1	50	150 (99)	0.18	0.25
DC 3B	123 (32.4)	81 (21.4)	5.1	75	88 (58)	0.18	0.25
DC 3C	212 (56)	140 (37)	5.1	75	150 (99)	0.18	0.25
DC 4B	159 (42)	105 (27.7)	10.3 1	50	117 (77)	0.37	0.5
DC 4C	246 (65)	163 (43)	10.3 1	50	175 (116)	0.37	0.5
DC 4D	313 (83)	207 (55)	10.3 1	50	223 (147)	0.37	0.5
DC 5C	409 (108)	270 (71)	6.2	90	175 (116)	0.37	0.5
DC 5D	522 (138)	345 (91)	6.2	90	223 (147)	0.37	0.5
DC 6C	804 (212)	531 (140)	3 4	45	175 (116)	0.37	0.5
DC 6D	1008 (266)	666 (176)	3 4	45	223 (147)	0.37	0.5
DC 7C	1440 (380)	952 (251)	4 (60	175 (116)	1.1	1.5
DC 7D	1800 (476)	1190 (314)	4 (60	223 (147)	1.1	1.5
DC 7J Duplex	2880 (761)	1903 (503)	4 (60	175 (116)	1.1	1.5
DC 7K Duplex	3600 (951)	2379 (628)	4 (60	223 (147)	1.1	1.5





OMNI DC2-6 Configuration		Configuration	Required Code	Optional Code			
Pump Size Position 1-4	Code	Ghoice and Description (See "Omni Performance Chart" on the previous page.)	DC				
Motor Selection Position 5	1 2 3 4 5 6 7 8 X	IEC 71 B14 Frame, 1PH 115/230V, 0.37kW (1/2HP), TEFC, MOTOR [5/56C Frame, 1PH 115/230V, 0.37kW (1/2HP), TEFC, MOTOR [50/60hz] IEC 71 B14 Frame, 3PH 220/380V (&460V), 0.37kW (1/2HP), TEFC, MC56C Frame, 3PH 220/380V (&460V), 0.37kW (1/2HP), TEFC, MOTOR [5/56C Frame, 3PH 220/380V (&460V), 0.37kW (1/2HP), TEFC, MOTOR [5/56C Frame motor MPC No Motor with 56C frame (Always @ 60 Hz - Use 60 Hz Performar MPC with 71 frame motor MPC No Motor with 71 frame (Always @ 60 Hz - When selecting a pump No Motor - 56C frame No Motor - 1EC 71 B14 frame	OTOR [50/60hz] 50/60hz] nce data)				
Wet End Materials Position 6	F A P	PVDF Liquid End 316SS Liquid End Polypropylene Liquid End (Available only on DC5 & 6)					
Connections Position 7	P B	NPT BSPT (Not available on DC2 Pumps)					
ptional MI	PC Con	troller					
Control	Blank M	No MPC Cotroller (Manual Only) MPC Controller - IP56 & NEMA 4X rated frequency					
Controller Input Voltage (Single Phase Only)	Blank 1 2		run at 60 Hz even if the input voltag z performance data when selecting a				
Extended Remote Cable	Blank X C	No MPC Controller Pump mounted keypad (with standard 1.5 meters or 4.5 feet of cable) Extended remote cable, keypad mounted off the pump	Max Length: 305 Meter (See instructions below				
Language (MPC will be shipped in language chosen)	Blank E F S	No MPC Contro ll er English French Spanish German					



Metering Pump Controller (MPC) DC 2-6 Models Only

For high technology in a simple to understand package at an economical price, add an MPC to the Omni pump to take advantage of complete system integration between metering pump and process.

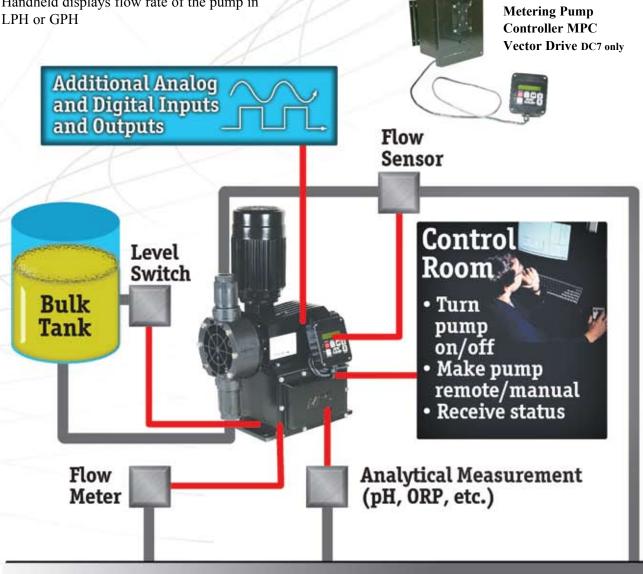
The MPC features:

- Automatically control and display flow with a 4-20 mA input HANDHELD keypad, and manual stroke control
- Controls Pulsafeeder metering pumps up to 1000:1 turn down ratio
- The IP56 (NEMA 4X) Handheld user interface is attached to the pump with 1.5 meters (4.5 feet) of cable
- Optionally, the Handheld can be mounted up to 300 meters (1000 feet) away from the pump
- Handheld displays flow rate of the pump in

- Use digital inputs and outputs to monitor and control:
 - Supply tank level
 - Pump flow verification
 - Remote status indication of pump (on/off)

(II) C E

- Pump alarm status
- Pump auto/manual status



Stream Being Treated



Visit us on the web at www.pulsafeeder.com



