

**PULSAFEEDER**  
A Unit of IDEX Corporation

# Innovation in Metering Pump Technology



**OMNI**

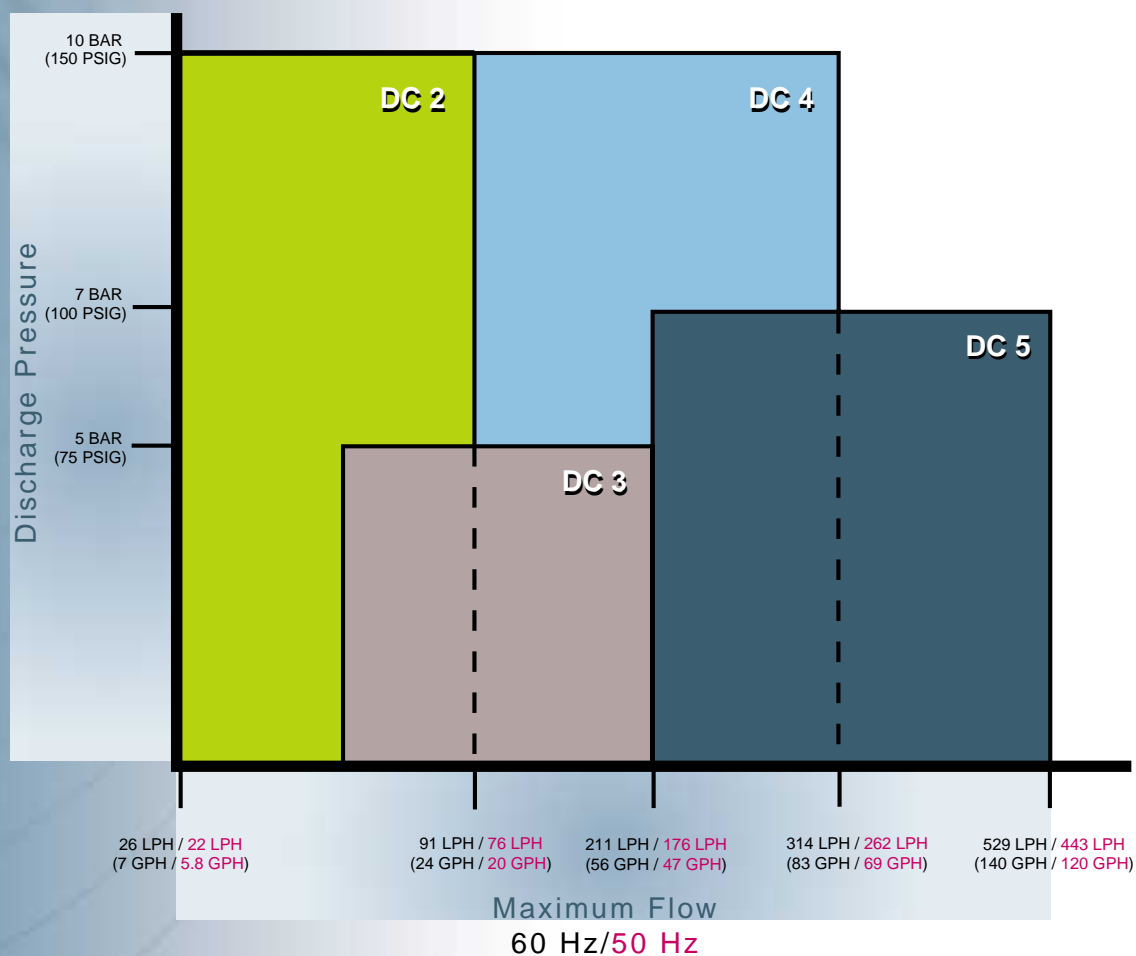
Economic  
Compact  
Simple  
Rugged

## Pulsafeeder Technology

Pulsafeeder, the global leader in liquid chemical feed innovation, continues to bring new technology into the metering pump industry. The OMNI series is designed to be an economical, compact, rugged, simple and reliable diaphragm metering pump.

### OMNI Highlights

- Metering accuracy to  $\pm 2\%$  of flow
- Turndown capability adjustable up to 1000:1 with MPC on selected models



### Markets

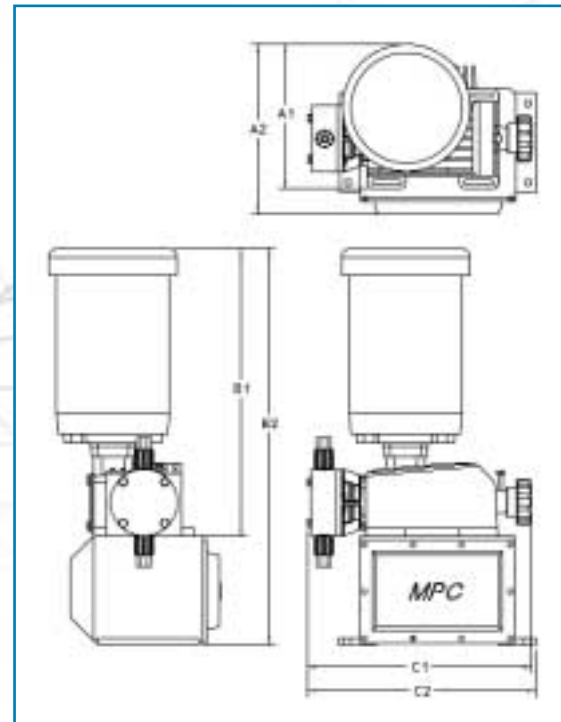
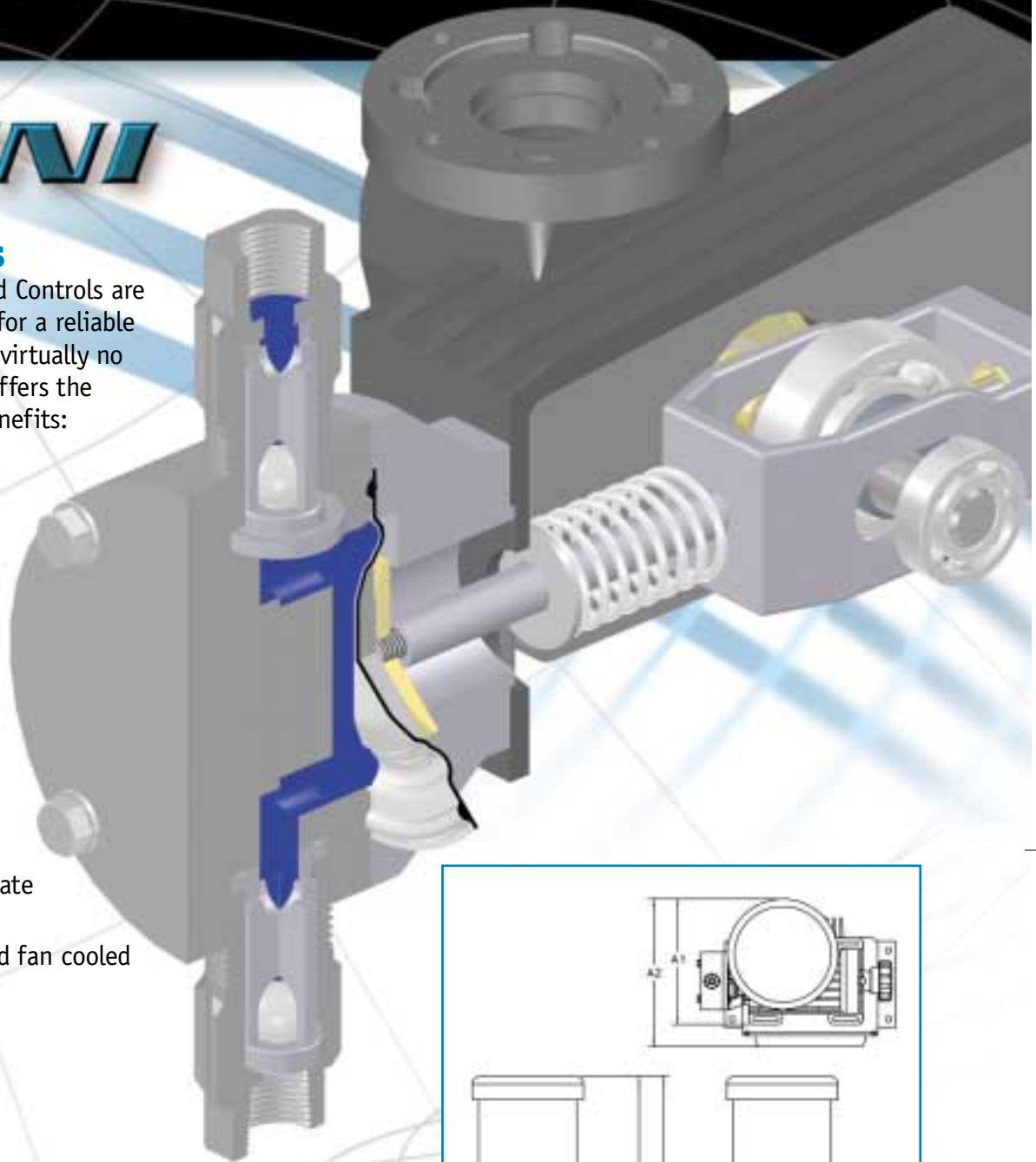
- |                    |               |                     |
|--------------------|---------------|---------------------|
| Agriculture        | Mining        | Pulp & Paper        |
| Chemical           | Paints & Dyes | Power & Energy      |
| Food & Beverage    | Petrochemical | Water Treatment     |
| General Industries | Petroleum     | Water & Waste Water |



## 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:



- **Oil Free**  
Greased for life  
no oil to buy or change
- **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**  
PVC & 316 SS



Model	A1		A2 (MPC)		B1		B2 (MPC)		C1		C2 (MPC)		Weight*	
	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(lbs.)	(kg)
DC2	6.9	175.3	8.5	215.9	14.6	370.8	21.1	535.9	13.1	332.7	13.3	337.8	13	5.8
DC3	6.9	175.3	8.5	215.9	14.6	370.8	21.1	535.9	13.9	353.1	14.2	360.7	17	7.7
DC4	7.6	193.0	9.1	231.1	14.9	378.5	21.4	543.6	15.0	381.0	15.0	381.0	22	9.9
DC5	7.6	193.0	9.1	231.1	14.9	378.5	21.4	543.6	15.3	388.6	15.3	388.6	25	11.3

All weight without motors. \*Weight shown is without MPC and motor. With MPC add 18.3 lbs. / 8.3 kg.





### OMNI Performance Table

Model Code	60 hz		50 hz		Pressure		SPM @		Power	
	GPH	LPH	GPH	LPH	PSIG	BAR	1725	1425	HP/kW	
DC 2 A	7	26.5	5.8	22.1	150	10	44	37	1/4	0.18
DC 2 B	14	53.0	11.7	44.1	150	10	88	73	1/4	0.18
DC 2 C	24	90.8	20.0	75.7	150	10	150	125	1/4	0.18
DC 3 A	15.9	60.2	13.7	51.8	75	5	44	37	1/4	0.18
DC 3 B	30	113.5	27.0	102.3	75	5	88	73	1/4	0.18
DC 3 C	56	211.9	46.4	175.6	75	5	150	125	1/4	0.18
DC 4 A	21	79.5	17.4	66.0	150	10	58	49	1/2	0.37
DC 4 B	40	151.4	34.9	132.1	150	10	117	98	1/2	0.37
DC 4 C	65	246.0	52.0	196.8	150	10	175	146	1/2	0.37
DC 4 D	82.8	313.5	66.0	252.0	150	10	223	186	1/2	0.37
DC 5 A	33.1	125.3	27.9	105.6	100	7	58	49	1/2	0.37
DC 5 B	66.8	252.8	55.9	211.5	100	7	117	98	1/2	0.37
DC 5 C	108	408.8	88.0	333.1	100	7	175	146	1/2	0.37
DC 5 D	140	529.9	117.0	442.8	100	7	223	186	1/2	0.37

### OMNI Pump Model String

		Code	DC _ _ _ _ _ _ _ _
Pump Size	See Above Chart	Position 1-4	DC2 - 1/4" FNPT / BSPT DC3 - 1/2" FNPT / BSPT DC4 - 1/2" FNPT / BSPT DC5 - 1" FNPT / BSPT
Motor Frame	1 3 5 7 Y X	Position 5	1/2 HP (0.37 kW), 1PH, 115/230V Motor IEC 71 B14 (50/60 Hz) 1/2 HP (0.37 kW), 3PH, 230/460V Motor IEC 71 B14 (50/60 Hz) Motor for MPC w/56C frame Motor for MPC w/IEC 71 frame No Motor IEC 71 frame No Motor 56C frame
Wet End Materials	E A	Position 6	PVC Liquid End • PTFE Diaphragms and O-rings 316SS Liquid End • PTFE Diaphragms and O-rings
Connections	P B	Position 7	NPT BSPT
Optional MPC Controller			
Control	BLANK M		No MPC Controller (Manual Only) MPC Controller - IP56 and Nema 4X rated
Controller Input Voltage	BLANK 1 2 3 4	(Single Phase Only!)	No MPC Controller 115V 60 Hz ETL (UL/CSA) 230V 60Hz CE & ETL 110V 50Hz ETL (UL/CSA) 220V 50Hz CE & ETL
Extended Remote Cable	BLANK X C		No MPC Controller No Extended Cable Extended Remote Cable
Language	BLANK E F S G		No MPC Controller English French Spanish German



## Metering Pump Controller (MPC)

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 1.8 meters (6 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 LPH or GPH
- Use digital inputs and outputs to monitor and control:
  - Supply tank level
  - Pump flow verification
  - Remote status indication of pump (on/off)
  - Pump alarm status
  - Pump pulse output (stroke counter)
  - Pump auto/manual status

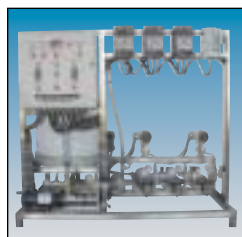
## *A World of Pumping Technology at Your Control*

Pulsafeeder has custom solutions for all of your applications. We offer combined process control and mechanical expertise through our chemical injection and delivery systems and our hydraulic and mechanical pumping technologies.



### **Power and Energy**

Source-to-discharge, integrated systems to meet the demands of power plant process chemistry.



### **Pulp and Paper**

River to Reel, chemical activation and metering systems for all pulp and paper process applications.



### **Water and Waste Water Treatment**

Reservoir to supply line, to chemical treatment plant; preserving our most critical natural resource, clean water.

Visit us on the web at  
[www.pulsa.com](http://www.pulsa.com) or contact any  
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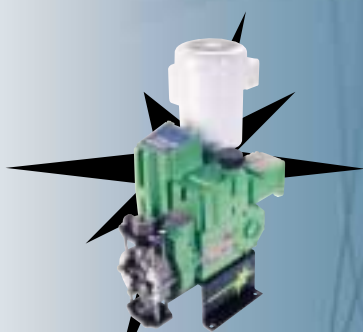
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OMB-04



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Electronic Diaphragm Metering Pumps



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Hydraulic Diaphragm Metering Pumps



**Shadow®**  
Mechanical Diaphragm Metering Pumps



**Pulsar HypoPump®**  
Hydraulic Diaphragm Metering  
Pump for Vapor Handling

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