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MECHANICAL DIAPHRAGM METERING PUMP

PULSAFEEDER EXPERTISE

For over 70 years, Pulsafeeder Inc., a unit of IDEX Corporation, has been a leader in diaphragm and dosing metering technologies.) With experience in every kind of fluid handling project, our pumps are made to your specific application. Known for their rugged construction and dependable performance, our products are of the highest level of manufacturing excellence and quality control.

PULSA GLM® SERIES PUMPS

Our Pulsa GLM[®] series is a mechanically actuated diaphragm metering pump. Designed to be reliable, robust, efficient, and compact; it features an industrial design to work in just about any application or environment. If you are looking for a high value chemical transfer or dosing metering pump with low cost of ownership, GLM is an outstanding choice. The latest pump series from Pulsafeeder can handle a wide range of flows, pressures and process chemicals.

MATERIALS OF CONSTRUCTION

Wet End Materials: Polypropylene, PVDF, 316L Stainless Steel Diaphragms: Composite PTFE coated Buna and solid PTFE Check Valves: Ceramic or Stainless Steel Housing: Aluminum Base: Stainless Steel or coated Steel

Head Adaptors: Polypropylene or ETFE coated Cast Iron Lubrication: Oil bath Hardware: Stainless Steel **Coating:** Epoxy paint



DM0-2

DM 3-4





Design Feature	Customer Benefit	Savings
Robust design; > 20,000 hours of run life	Long pump life, low cost of ownership	\$\$\$\$\$
Auto Stroke lock and adjustment	Accurate chemical dosing	\$\$\$\$
Leak free wet end with secondary sealing	Safety, no clean up or environmental risks	\$\$\$\$
Toolless valve and connection options	Fast and easy installation and servicing	\$\$\$
Multiple KOPkit [®] service options	Proper level of maintenance with minimized cost	\$\$\$
Epoxy paint and ETFE coated heads	Chemical resistant and protected from the environment	\$\$\$
NEMA 4x, IP56 gearbox with upper bearing and seal	Sealed and protected from the environment	\$\$\$
Oil sight glass	Quick maintenance checks	\$\$
Never-seize coupling	Allows for quick and easy removal of motor	\$\$

PRODUCT SPECIFICATIONS



Pressure: 12 bar (175 PSI)

Min Flows: 0.10 LPH (0.0264 GPH) Stroke Adjustment: 0-100%, resolution 1.0% Auto-locking Stroke Adjustment

Modular Connections: tube, threaded, flanged Ambient Temperature Range: 0-45°C (32-113°F)

DIAPHRAGM TECHNOLOGY





MARKETS & TYPICAL APPLICATIONS

Markets

- Water Treatment Wastewater Treatment
- Cooling Towers Boilers

Typical Applications

- Acids
- Caustics
- Polymers
- Power Generation · Chemical
- Petrochemical
- - Bleaches
 - pH Control
 - Solvents



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SPEC PULSAFEEDER. GET MORE THAN YOU EXPECT.



A diaphragm reciprocates at a preset stroke length, displacing an exact volume of process fluid. Diaphragm retraction causes the product to enter through the suction check valve. Diaphragm advancement causes the discharge of an equal amount of the product through the discharge check valve.



- Food and Beverage
- Pharmaceutical
- Mining
- Dves/Inks
- Catalysts
- Cleaning Agents

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PULSA GLM[®] — FEATURES & BENEFITS

GEAR BOX

- · Compact and lightweight saves space and easy to handle
- · Completely non-vented gearbox design prevents condensation and ingress of contaminants
- NEMA 4X, IP 56, NEMA 7
- Oversized bearings for long life and reliability
- · Robust industrial hex-head SS hardware for proper torques and standardized fittings
- Shielded bearings for added protection



MOUNTING FEET

- · Flat and solid uniform mounting feet extend outside of the gearbox for stability
- Oversized, slotted mounting holes to accommodate various fasteners
- Balanced center of gravity pump with motor will not tip over prior to installation or maneuvering



DRIVE

- Upper worm bearing (sealed) extends gear and motor life, reduces noise, and maximizes pump efficiencies by ensuring full torque output
- · Motor flange drain path redirects liquids away from seal and eliminates pooling/resting on seal or motor shaft connection
- Patent Pending non-metallic never-seize motor coupling prevents sticking or "welding" of worm shaft to motor shaft and allows for quieter long-term operation without coupling wear or knocking sounds
- Highly efficient, heavy-duty drive train maximizes uptime and reduces total cost of ownership.



OIL LUBRICATION

- · Oil bath for normal or explosion proof areas, lubricates all internal moving parts to extend pump life · Easy and accessible oil fill location obstruction free
- and visible



WET END & CONNECTIONS

- Standard materials: PVDF. PP. and 316L SS
- · Stainless Steel hardware for added chemical resistance
- Modular connections (Tube, NPT, ISO/BSPT)
- Toolless valve removal for easy access and replacement
- 4 bolt tiebar (GLM[®]7)
- Factory engineered options: flanged and 4 bolt tiebar plastic connections

LEAK FREE HEAD

- pipe stress

 - distributed across the retention plates and reagent head to maximize diaphragm sealing.

DIAPHRAGM

- diaphragm lubrication
- Composite or Solid PTFE diaphragms offered

CHECK VALVES

- cavitation concerns

STROKE CONTROL

- 10:1 turndown standard
- 0-100% stroke range (while on or off) one complete revolution
- Auto-lock stroke position, drift free maintaining proper flow

SERVICING

- Toolless valve removal for simple servicing
- Multiple KOPkit® options for simple, extended and long-life servicing or prevention preferences
- Easy oil fill and drain
- Oil sight glass for fast inspection of oil and operation
- Ease of maintenance common hardware, no special tools required
- · Never-seize non-metallic motor coupling for fast disconnect

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• Secure diaphragm sealing technology provides leak free service and chemical containment. • Secondary O-ring seal offers worry free valve sealing and eliminates chemical spray. Large valve "pocket" and interface distributes the loading so it is not affected by

> Retention plates ensure pressure containment (hydrostatic and creep elimination), allows for proper head bolt torque without loosening over time Increased reagent head bolts (quantities 8-12) to ensure bolt torques are evenly

• Flat mechanically actuated diaphragm delivers reliable pumping action and long life Double sided PTFE coated composite diaphragms maximizes chemical resistance and

Multiple diaphragm sealing beads prevents leakage in industrial applications

· Patent Pending spherical uniform velocity valving, limited turbulence, superior solids handling, and auto-flushing. Flow is routed evenly without

 3 piece self contained replacement assemblies O-ring valve seat (soft seat) for less noise and better solids/slurry handling

Large, easy to grip knob with intuitive pictures of user friendly instructions













PULSA GLM[®] — FLOW & PRESSURE RATING

FLOW CURVES

Only 50Hz speeds and flows are shown





















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PULSA GLM[®] — PERFORMANCE & DESIGN

MODEL TABLE — FLOW & PRESSURE RATINGS

GLM° DM MODEL	50Hz Flow* LPH	60Hz Flow* LPH	Pressure BAR	50Hz SPM @ 1400	60Hz SPM @ 1750	Minimum Motor KW (HP)
DM1A	10	12	12	70	88	0.25 (0.22)
DM1C	15	18	12	112	140	0.25 (0.33)
DM2A	25	30		70	88	
DM2C	50	60	10	112	140	0.25 (0.33)
DM2E	80	n/a		187	n/a	
DM3C	130	156		112	140	
DM3D	180	216	5	147	184	0.25 (0.33)
DM3E	230	n/a		187	n/a	
DM4B	130	156		93	117	
DM4C	180	216	10	112	140	0.75 (1.0)
DM4D	230	276		147	184	
DM5C	280	336		112	140	
DM5D	350	420	7	147	184	0.75 (1.0)
DM5E	450	n/a		187	n/a	
DM6C	420	504		112	140	
DM6D	550	660		147	184	0.75 (1.0)
DM6E	690	n/a		187	n/a	
DM7A	850	1020		95	114	
DM7B	1000	1200	5	111	134	11(15)
DM7C	1300	1500		141	176	1.1(1.5)
DM7D	1600	1900		175	219	
DM7J	2600	3000		141	176	1 5 (2 0)
DM7K	3200	3800		175	219	1.5 (2.0)

*Flow and pressure ratings based on water-like viscosity.

PUMP CONFIGURATION STRING

Pump Selection	Code	Description				
PUMP MODEL Positions 1-4	See Model Table	See Model Table for all Pumps				
MOTOR	3	3PH 220/380V IEC Frame, TEFC [50/60Hz]	3PH 220/380V IEC Frame, TEFC [50/60Hz]			
Position 5	Y	NO MOTOR - IEC Frame (IEC 71 for DM1-6, IEC90 for DM7)				
WFT FND	А	316SS Liquid End (See Materials Table)				
MATERIALS	F	PVDF Liquid End (See Materials Table)				
Position 6	Р	PP Liquid End (See Materials Table)				
	В	BSPT - Not Available on DM7				
CONNECTIONS Position 7	Р	NPT with ANSI/DIN Flange Ring (DM7 Only)				
	т	3/8" x 1/2" Tubing Connection (DM1 & DM2 Only)				

KOPKIT® (KEEP ON PUMPING KIT) CONFIGURATION STRING

	Code	Choice and Description	KD
	1	For All DM1 Models	
	2	For All DM2 Models	
	3	For All DM3 Models	_
PUMP SIZE	4	For All DM4 Models	_
	5	For All DM5 Models	_
	6	For All DM6 Models	_
	7	For All DM7 Models	
	A	316SS Liquid End (See Materials Table)	
WET END MATERIAL	F	PVDF Liquid End (See Materials Table)	
	Р	PP Liquid End (See Materials Table)	

WET END MATERIALS



* Viton® is a registered trademark of DuPont Performance Elastomers.

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•	Seat	Valve Cap	Balls	O-rings	O-ringSeat	
)	PVDF	DD	Coromic	Viton®	Viton	
	(PP)	rr (Cerdinic	VICON		
	SS	SS	SS	TFE	N/A	

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PULSA GLM[®] — DIMENSIONS

DIMENSIONAL DRAWINGS DM7 SIMPLEX



This page is not final. Working on making lines thicker and changing all fonts. This spread will be sent separately in a couple days but wanted to get translation started. Ask Jill with any questions.





Model	DM1	DM2	DM3	DM4	DM5	DM6
Α	371	371	426	426	461	461
В	220	220	330	330	400	400
С	31	31	86	86	121	121
D	273	273	283	283	287	287
E	312	312	332	332	343	343
F	187	187	197	197	201	201
G	180	180	190	190	194	194
Н	150	150	173	173	187	187
I	87	87	97	97	101	101

All Dimension in millimeters

All measurements are for reference only. Subject to change.



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Frame	"A" DIM
90 IEC	318.8
100 IEC	336.3
56C NEMA	334.8
143/145TC	334.8

All Dimension in millimeters



Frame	"A" DIM
90 IEC	318.8
100 IEC	336.3
56C NEMA	334.8
143/145TC	334.8

All Dimension in millimeters





PARTS, KITS, & ACCESSORIES



Spare Parts related to your pump are available. If you need to replace a diaphragm, hose or tube, reagent head, or a valve assembly, we have it.



Pulsation Dampeners improve pump efficiency by removing pulsations and smoothing pipe flows.



Pressure Relief Valves prevent an over pressurization situation from damaging your pump or system.



Containment Bins help to prevent and maintain chemical leakage and harmful exposure while servicing your pumping system.



PULSALube is the only oil Pulsafeeder recommends for use in our pumps. PULSALube is a superior blend of oils designed to provide optimal lubrication and extend equipment life. It maintains your pump warranty.



We offer KOPkit[®] (Keep on Pumping kits) designed to guard against unnecessary downtime and assure the highest level of efficient and uninterrupted service from your GLM[®] pump. In the event of a breakdown, one kit will put you back in business fast!



Pulsafeeder Engineered Products A Unit of IDEX Corporation

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Should we have Michelle change this since this is going to be saved as English version? For More Information, Contact Your Local Authorized Pulsafeeder Distributor



