

# GreenLine

The GreenLine (GLM) mechanically actuated diaphragm metering pump, is designed to be reliable, robust, efficient, and compact with the industrial features needed for 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. This latest pump series from Pulsafeeder can handle a wide range of flows and process chemicals.

## FEATURES

### RUGGED DOUBLE-SIDED PTFE FACED, MULTI-LAYER DIAPHRAGM

- Reliable pumping action and long life
- Designed for maximum chemical resistance
- Multiple diaphragm sealing beads prevent leakage

### SECURE DIAPHRAGM SEALING TECHNOLOGY

- Provides additional protection for leak free service and chemical containment
- Eliminates chemical spray while the retention plate ensures pressure containment (Hydrostatic and creep elimination)
- Allows for proper head bolt torque without loosening over time

### SELF CONTAINED DOUBLE BARRIER PROTECTION CHECK VALVE ASSEMBLY

- Secondary O-ring seal offers worry free sealing
- Provides additional protection against leaks (not in 316L configuration)

### SPHERICALLY UNIFORM VELOCITY CHECK VALVES

- Limit turbulence
- Superior solids handling and are auto-flushing
- Flow is routed evenly without risk of cavitation

### O-RING VALVE SEAT (SOFT SEAT)

- Improves priming
- Creates less noise
- Provides better solids / slurry handling (not available in 316L configurations)

### COMPACT AND LIGHTWEIGHT GEARBOX

- Saves space and easy to handle
- Incorporates a fully sealed, non-vented design to prevent ingress of contaminants
- Oversized, shielded bearings deliver long life and reliability, while the sealed upper worm bearing extends gear and motor life
- Reduces noise, and maximizes pump efficiencies by ensuring full torque output

### STROKE ADJUSTMENT

- Auto-locking mechanism which absolutely prevents gradual turning
- Just adjust and walk away with peace of mind
- No need for secondary locking mechanism

### MOTOR FLANGE DRAIN PATH

- Redirects liquids away from the drive shaft seal
- Eliminates pooling on the motor shaft connection

### NON-METALLIC, NEVER SEIZE MOTOR COUPLING

- Prevents sticking or "welding" of worm shaft to motor shaft allowing for ease of motor installation/removal
- Less noise

### FLAT, SOLID MOUNTING FEET

- Support the pump securely so it will not tip over prior to installation



## OPTIONAL FEATURES

### LEAK DETECTION

- Safeguard your pump and system from costly product loss and equipment damage
- Leak detection double diaphragm option comes with a pressure gauge and switch to monitor the diaphragm integrity
- Two diaphragms give you superior protection from a diaphragm failure

### VARIABLE FREQUENCY DRIVE AND MOTOR

- Maximizes operating range and remotely controls GreenLine

## SPECIFICATIONS

MODEL		DM1A	DM1C	DM2A	DM2C	DM2D	DM3C	DM3D	DM4B	DM4C	DM4D	DM5C	DM5D	DM6C	DM6D	DM7A	DM7B	DM7C	DM7H*	DM7J*
60HZ Flow (max.)	GPH	3.2	4.8	7.9	15.9	20.6	38	52.3	41.2	57	72.9	88.8	111	133	174	269.5	317	412	634	824.2
	LPH	12	18	30	60	78	144	198	156	216	276	336	420	504	660	1020	1200	1560	2400	3120
Pressure (max.)	PSIG	174		145			102		145			102		73						
	BAR	12		10			7		10			7		5						
60HZ SPM @1750		88	140	88	140	175	140	175	116	140	175	140	175	140	175	116	140	175	140	175
Motor Required	HP	0.50							1.0							1.5				
	kW	0.37							0.75							1.1				
Connections: FNPT or ANSI		0.5" FNPT					1" FNPT					1.5" FNPT					1.5" FNPT (316LSS), 1.5" FNPT and 1.5" ANSI 150# Flange Combination (PVDF)			

\* Duplex-head pump model

## WETEND MATERIALS

Wet End	Model	Head	Guide	Seat	Valve Cap	Check Balls	O-rings	O-ring Seat
PVDF	DM1-2	PVDF	PVDF	PVDF	PVDF	Ceramic	PTFE	N/A
	DM3-6							FKM*
	DM7						FKM*	FKM*
316L SS	DM1-7	316L SS	316L SS	316L SS	316L SS	316L SS	PTFE	N/A

\* FKM is a generic formulation of Viton® is a registered trademark of DuPont Performance Elastomers.

## ENGINEERING DATA

Stroke Adjustment	0-100% stroke range in one complete revolution, resolution 1%, Auto locking stroke position, drift free – maintaining proper flow
Suction Lift	10 ft (3m)
Viscosity	Up to 1,000
Turndown	10:1
Modular Connections	Threaded, Flanged
Connections	Standard FNPT and ANSI Flanged Connections
Accuracy	+/- 2% of Set Point
Diaphragms	Composite PTFE, solid PTFE (DM7 only). Double sided PTFE coated composite diaphragms maximize chemical resistance and diaphragm lubrication
Check Valves	Ceramic or Stainless Steel
Housing	Epoxy painted aluminum
Lubrication	Oil bath lubricates all internal moving parts to extend pump life with an easy and accessible oil fill location
Hardware	Stainless Steel for added chemical resistance
Four Bolt Tiebar	316L models only
Process Temperature	From 32 – 113°F (0-45°C)
Ambient Temperature Range	From 32-113°F (0-45°C)

## WEIGHT IN (LB.)

PUMP / PUMP+MOTOR / PUMP+MOTOR+VFD		
MODEL	METAL	PLASTIC
DM1	17 / 38 / 43	16 / 37 / 42
DM2	17 / 38 / 43	16 / 37 / 42
DM3	24 / 45 / 50	20 / 41 / 46
DM4	24 / 64 / 69	20 / 60 / 65
DM5	32 / 72 / 77	29 / 69 / 74
DM6	32 / 72 / 77	29 / 69 / 74
DM7	89 / 139 / 147	72 / 122 / 130
DM7 DUPLEX	122 / 172 / 180	100 / 150 / 158

## DIMENSIONS

Dimensional Drawings Available in Instruction Manual and Brochure



**Pulsafeeder, Inc.**  
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An ISO Certified Company



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