

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, GreenLine 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
- Eliminates less noise

FLAT, SOLID MOUNTING FEET

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

DEGAS BLEED VALVE

- Available for models 1-6 when dosing fluids that off-gas chemicals
- Eliminates loss of prime or inefficient operation resulting in low pump flow rates



"NSF/ANSI/CAN 61"

"NSF/ANSI/372"



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.

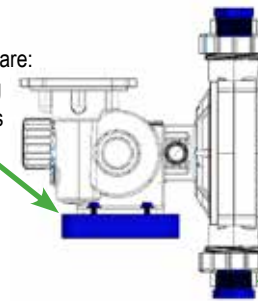
ENGINEERING DATA

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)

BLACKLINE TO GREENLINE CONVERSION KITS

Adapter & Hardware:

To match existing Blackline anchors and centerlines.



Connection Reducers: To match existing Blackline connection sizes.

Blackline to GreenLine Model	WET-END CONFIGURATION		
	PVC	316	PVDF
MD1A to DM2A	KDM2ACDX *	KDM2ACDX *	KDM2ACDX *
MD1B to DM2C	KDM2ACDX *	KDM2ACDX *	KDM2ACDX *
MD1C to DM2D	KDM2ACDX *	KDM2ACDX *	KDM2ACDX *
MD1D to DM4B	KDM4BXXV	KDM4BXXS	KDM4BXXF
MD1E to DM4B	KDM4BXXV	KDM4BXXS	KDM4BXXF
MD2F to DM4C	KDM4CXXV	KDM4CXXS	KDM4CXXF
MD2J to DM5C	KDM5CDXV	KDM5CDXS	KDM5CDXF
MD2K to DM5D	KDM5CDXV	KDM5CDXS	KDM5CDXF
MD3G to DM6C	KDM6CXXV	KDM6CXXS	KDM6CXXF

* Adapter and hardware no reducers.

WEIGHT IN (LB.)

	PUMP / PUMP+MOTOR / PUMP+MOTOR+VFD / ADD LD	
MODEL	METAL	PLASTIC
DM1	29 / 50 / 54.5 / +10	28 / 49 / 53.5 / +10
DM2	29 / 50 / 54.5 / +10	28 / 49 / 53.5 / +10
DM3	36 / 57 / 61.5 / +15	32 / 53 / 57.5 / +15
DM4	36 / 77 / 79.5 / +15	32 / 73 / 75.5 / +15
DM5	44 / 85 / 87.5 / +20	41 / 82 / 84.5 / +20
DM6	44 / 85 / 87.5 / +20	41 / 82 / 84.5 / +20
DM7	192 / 242 / 238.5 / +25	175 / 225 / 221.5 / +25
DM7 DUPLEX	225 / 275 / 271.5 / +50	203 / 253 / 249.5 / +25



Pulsafeeder, Inc.

A Unit of IDEX Corporation

An ISO Certified Company



DIMENSIONS

Dimensional Drawings Available in Instruction Manual and Brochure



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