

The PULSAR Shadow[®] features a rugged and reliable construction designed for simplicity of operation and maintenance. The PULSAR Shadow[®] sets a new standard for the mechanically actuated diaphragm metering pump.

Key Features

- Robust PTFE faced diaphragm is designed for 2 years of uninterrupted service
- Simple maintenance involving no hydraulic oil
- Four bolt tie-bar design provides ultimate resistance to piping moments and forces
- 5 year warranty on the gear box
- Maximum pressure rating of 305 psig including non-metallic reagent heads

Control Options



DLC/DLCM

- The DLCM integrates a motor speed controller and a stroke length controller into a single pump mounted package. Its purpose is to precisely adjust the flow of a process media by adjusting the pump motor speed and stroke length.



ECA

- The ECA is designed to simplify and automate the calibration of the analog signals. Analog signal calibration is accomplished by simple push button entry. It allows for precise adjustment of output flow of a process media by means of stroke length positioning.



MPC

- The MPC VECTOR is an advanced pump controller that is physically separated from the pump's enclosure. Its purpose is to precisely adjust output flow of a process media by means of pump motor speed control, and is designed for a wide variety of control applications.

Pulsalarm[®] leak detection is also available.

Operating Benefits

- Steady-state accuracy of $\pm 1\%$
- Manual stroke length adjustment
- Three component check valves
- Mechanically actuated diaphragm for simple maintenance



Aftermarket & Accessory Offerings

- KOPkit[®]
- Cal Columns
- Strainer
- Pressure Relief Valves
- Back Pressure Valves
- Pulsation Dampeners
- Gauges





Specifications and Model Selection

Pump Model & Head Size	Maximum Capacity Range Metal Wetted Ends Only Consult your Pulsafeeder sales representative for non-metallic wetted ends				Rated Pressure	
	60 HZ GPH	60 HZ LPH	50 HZ GPH	50 HZ LPH	PSIG	BAR
Includes all stroking rates						
25BB B Head	2.8 – 8.5	10.8 – 32.1	2.4 – 8.7	8.9 – 33.0	305	21.0
25BB C Head	6.5 – 19.5	24.7 – 73.6	5.4 – 20.0	20.4 – 75.8	160	11.0
25BD C Head	9.8 – 29.2	37.0 – 110.0	8.1 – 30.0	30.6 – 114.0	160	11.0
55BD C Head	8.6 – 25.7	32.7 – 97.5	7.1 – 26.5	27.0 – 100.0	250	17.2
55BD D Head	15.4 – 45.8	58.2 – 173.0	12.7 – 47.2	48.1 – 178.0	150	10.3
55BF D Head	25.6 – 76.4	96.9 – 289.0	21.2 – 78.6	80.2 – 298.0	150	10.3
55 BF E Head	55.3 – 165.0	210.0 – 625.0	45.8 – 170.0	173.0 – 643.0	75	5.2

Pulsar Shadow pumps are available with PTFE/elastomer composite and leak detection diaphragms.

Engineering Data

Optional Features:

- Microprocessor based controllers
- MODBUS serial communication
- PULSAlarm® leak detection system
- Multiplex system for engineered applications
- Stainless steel base

Custom Engineered Designs

- Remote Head
- High Temperature Remote Head
- Anti-Siphon Valve
- Degassing Valve

Liquid End Materials of Construction:

Const. Ref.	Reagent Head	Flat Diaphragm	Check Valves			Cap & Guide
			Ball	Seat	Gasket	
316SS	316SS	TFE Faced	316SS	316SS	PTFE	316SS
H ₂ SO ₄	316SS	TFE Faced	HCO	020SS	PTFE	316SS
20SS	020SS	TFE Faced	HCO	020SS	PTFE	020
PVC	PVC	TFE Faced	ALA	PVC	PTFE	PVC
PVDF	PVDF	TFE Faced	HCO	PVDF	PTFE	PVDF

ALA=Alumina Ceramic HCO=Alloy C H₂SO₄= Sulfuric Acid Construction 020=Alloy 20

Dimensions

DIM	MODEL 25		MODEL 55	
	Inch	MM	Inch	MM
L	19.3	489.7	20.0	507.5
W	10.6	269.3	10.6	269.3
H	32.1	816.2	32.1	816.2
Approx Shipping Weight	125 lbs	57.6 kg	140 lbs	63.5 kg



pulsafeeder.com



2883 Brighton Henrietta TL Rd
Rochester, NY 14623
Phone: ++1(585) 292-8000
Fax: ++1 (585) 424-5619

An ISO 9001 and ISO 14001 Certified Company



SHD002 – 8/2010