

This rugged, leak-free hydraulic diaphragm style metering pump is designed for precise metering and long-term dependability. Its time-proven drive and stroke control mechanism combined with a wide variety of wet end head designs deliver superior value for any application.

Key Features

- Instant visual indication of proper oil level fill, overpressure, and proper air bleeding of the hydraulic fluid
- Four bolt tie bar design provides the ultimate resistance to piping moments and forces
- Stainless steel hardware on the liquid end
- Three component check valves
- Externally adjustable hydraulic by-pass valve
- Manual stroke length adjustment
- Push-to-prime valve allows manual air removal from the hydraulic oil in addition to the automatic air bleeding
- Stainless steel hardware on liquid end
- Rugged power transmission

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

- Automatically controls and displays flow from a mounted or handheld keypad and display. It uses a 4-20 mA input and stroke control signal to adjust up to 1000:1 turn down ratio. The IP56 (NEMA 4X) controller can be attached to the pump or 1000ft (305m) away. It offers multiple analog and digital input & outputs for flow verification, remote on/off, alarms, status, etc.

Pulsalarm® leak detection is also available.

Operating Benefits

- Steady-state accuracy of $\pm 0.5\%$
- Manual stroke length adjustment
- Three component check valves
- 5 year warranty on the gearbox



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				Rated Pressure ¹	
	Consult your Pulsafeeder sales representative for non-metallic wetted ends				PSI	Bar
<i>Include all stroking rates</i>	60 Hz GPH	60 Hz LPH	50 Hz GPH	50 Hz LPH		
25HJ A Head	0.49 - 1.47	1.8 - 5.5	0.41 - 1.5	1.5 - 5.6	3190	220
25HJ B Head	0.9 - 7.1	3.7 - 27.2	0.8 - 7.3	3.0 - 28.0	2095 & 980	144.5 & 67.5
25HJ C Head	6.5 - 35.3	24.9 - 133.4	5.4 - 36.3	20.6 - 137.3	393 & 220	27 & 67.5
25HJ D Head	18.7 - 55.7	70.7 - 210.7	15.4 - 57.3	58.5 - 216.8	142	9.8
25HL B Head	1.3 - 7.2	5.0 - 27.6	1.1 - 7.4	4.1 - 28.4	150	10.4
25HL C Head	5.5 - 41.9	20.9 - 158.6	4.5 - 43.1	17.3 - 163.2	150	10.4
25HL D Head	25.2 - 117.7	95.6 - 445.3	20.9 - 121.1	79.1 - 458.2	87 & 56	6 & 4
55HL B Head	1.0 - 5.9	3.9 - 22.5	0.85 - 6.1	3.2 - 23.1	3190 & 2220	220 & 153
55HL C Head	4.9 - 40.6	18.8 - 153.6	4.1 - 41.7	15.6 - 158.0	1040 & 417	71.7 & 28.8
55HL D Head	24.7 - 116.4	93.5 - 440.6	20.5 - 119.8	77.4 - 453.4	235 & 150	16.2 & 10.4

1. If two pressures are shown, this indicates two different diameters of pistons are available - the higher pressure for the smaller, the lower pressure for the larger piston. Pulsar pumps are available with PTFE/Elastomer composite, PTFE solid, and leak detection diaphragms.

Engineering Data

Max. Rated Capacity:	25HJ – 210.7 LPH (55.7 GPH) 25HL – 445.3 LPH (117.7 GPH) 55HL – 440.6 LPH (116.4 GPH)
Max. Pressure:	25HJ – 220 Bar (3190 psig) 25HL – 96.5 Bar (1400 psig) 55HL – 220 Bar (3190 psig)
Temperature Rating:	70°C (158°F) Composite Diaphragm 110°C (230°F) Solid PTFE Diaphragm
Wetted Materials:	<i>Metal construction</i> – 316SS, HSO, Alloy 20 or Hastelloy C <i>Plastic Construction</i> – PVC, PHC or KYNAR
Connection Types:	Threaded – NPT or BSPT Flanged – ANSI or DIN Flanges

Standard 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

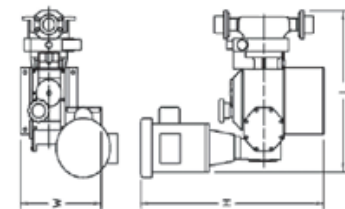
ALA=Alumina Ceramic HCO=Alloy C H₂SO₄= Sulfuric Acid Construction 020=Alloy 20

Custom Engineered Designs

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

Dimensions

DIM	MODEL 25		MODEL 55	
	Inch	MM	Inch	MM
L	18.7	475.5	19.4	493.5
W	10.6	269.3	10.6	269.3
H	32.1	816.2	32.1	816.2
Approx Shipping Weight	125 lbs	56.7 kg	140 lbs	63.5 kg



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