

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

- Full motion stroke length control mechanism gives 0-100% sinusoidal flow output with infinite increments of adjustment.
- Fully sealed drive and control mechanism with diaphragm breather to eliminate atmospheric contamination and assure extended service life.
- Simple in-line componentry easily serviced without major disassembly.
- Built-in hydraulic by-pass valve, make-up valve and bleeder valve for hydraulically balanced, trouble-free operation.
- Rugged diaphragms constructed of PTFE elastomer or metal with precise hydraulic balance for safe accurate metering.
- A broad selection of economical head, diaphragm and valve designs to handle any liquid metering application.
- Material options to handle any liquid.

Control Options



Electric Stroke Length Control

- A fully electric PULSAmatic[®] stroke length controller is available for operation with electric instrument signals.



Pneumatic Stroke Length

- A fully pneumatic operator design for use with a typical 3 to 15 psi (0.2 to 1.0 kg/cm²) instrument air signal to produce 0 to 100% flow.



MPC Vector

- 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.

Leak Detection is available in either Pulsalarm[®] or Chemalarm[®]

Operating Benefits

- Flows up to 244 GPH (923 LPH), and pressures up to 3000 psi (207 bar).
- Metering accuracy with a $\pm 1\%$ over a 10:1 flow range.
- Drive components carry a two-year warranty.



Aftermarket & Accessory Offerings

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



PULSA Series® 7120

Specifications and Model Selection

RATED FLOW, AT RATED PRESSURE GPH (LPH) ¹				RATED PRESSURE PSI (Bar)	Diaphragm ⁽²⁾ Style	PISTON SIZE (inches)	Connection INLET/OUTLET FNPT (inches)
50 Hz Flow		60 Hz Flow					
58 SPM	181 SPM	70 SPM	175 SPM				
1 (3.8)	2 (7.6)	1.2 (4.5)	2.4 (9)	3000 (207)	M	0.375	¼ F
1.9 (7.3)	6 (22.6)	2.3 (8.7)	5.8 (21.8)	2000 (138)	TM	0.5	½ F
2.4 (9.1)	7.4 (28)	2.9 (11)	7.1 (27)	600 (41)	THM	0.5	½ F
5.7 (21.5)	17.8 (67)	6.8 (25.7)	17 (65)	1200 (83)	T	0.75	½ F
6 (22.7)	18.7 (71)	7.2 (27)	18 (68)	900 (62)	TM	0.75	½ F
6.2 (23.3)	19.2 (73)	7.4 (28)	18.5 (70)	600 (41)	THM	0.75	½ F
11 (42)	34 (130)	13.2 (50)	33 (125)	600 (41)	THM	1	½ F
18 (68)	56 (210)	21.4 (81)	54 (203)	440 (30.3)	TM	1.25	1/2 F
26 (97)	80 (304)	31 (117)	77 (292)	300 (20.7)	THM	1.5	1 F
35 (132)	109 (413)	42 (159)	105 (397)	225 (15.5)	THM	1.75	1 F
52 (195)	161 (608)	62 (234)	155 (586)	150 (10.3)	THM	2.125	1 ½ M/ 1 F
78 (297)	244 (923)	94(356)	235 (890)	100 (6.9)	TH	2.625	2 M

1. Ratings subject to change

2. M = Metal; T = Teflon; H = HydraTube

Engineering Data

Materials: Standard wet end materials available are 316SS, 20SS and glass-filled PTFE. Standard valve materials available are 316SS, 20SS, Alloy C and alumina. Valve gaskets are PTFE. Custom materials quoted on request. Pump body is cast iron. Intermediate fluid in HYDRATUBE® models is a 33% ethylene glycol-water solution. Alternate fluids are available. HYDRATUBE® housing is “ductile iron” – a high grade, high strength casting.

Ratings: General fluid temperature limits, 10°F to 180°F (-12°C to 82°C). Glass-filled PTFE, 40°F to 150°F (4.4°C to 66°C). Elastomer diaphragm models generally limited from 40°F to 180°F (4°C to 82°C). Modified designs to -40°F to 700°F (-40°C to 371°C) are available.

All glass-filled PTFE wet ends limited to 150psig (11kg/cm²) rated pressure and rated flow is reduced 5% (10% at 175 spm). Most high pressure ratings have improved capacity at lower operating pressure.

Reduce all rated flows by 5% when using pneumatic stroke length adjustment.

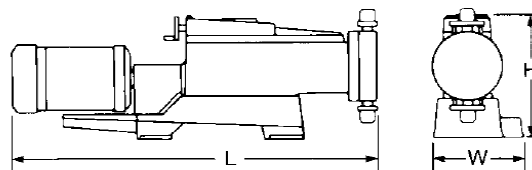
Valves: Single, ball type, inlet and outlet check valves are standard. Double check valves are optional. Ratings of 1000 psi (70kg/cm²) and above have double check valves as standard design.

Custom Engineered Designs

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

Dimensions

PULSA 7120	L	H	W	Approx. Shipping Weight
Inches	31	12	9	180 lbs.
Centimeters	78.7	30.5	22.9	82 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



PLS712 – 8/2010