

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 make it a "best buy" for any application.

### Key Features

- Full motion stroke length control mechanism gives 0-100% sinusoidal flow output with infinite increments of adjustment.
- Flooded lubrication. No lubricator pumps required.
- 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<sup>®</sup> 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/cm<sup>2</sup>) 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<sup>®</sup> or Chemalarm<sup>®</sup>

### Operating Benefits

- Flows up to 599 GPH (2267 LPH), and pressures up to 3200 psi (221 bar).
- Metering accuracy with a  $\pm 1\%$  over a 10:1 flow range.  
Drive components carry a two-year warranty



### Aftermarket & Accessory Offerings

- KOPkit<sup>®</sup>
- Cal Columns
- Strainer
- Pressure Relief Valves
- Back Pressure Valves
- Pulsation Dampeners
- Gauges



# PULSA Series<sup>®</sup> 7440

## Specifications and Model Selection

RATED FLOW, AT RATED PRESSURE GPH (LPH)				RATED PRESSURE	Diaphragm <sup>(2)</sup> Style	PISTON SIZE (inches)	Connection INLET/OUTLET FNPT (inches)
50 Hz Flow		60 Hz Flow					
58 SPM	173 SPM	70 SPM	175 SPM				
2.5 (9.5)	8 (30)	3 (11.4)	8 (30)	3200 (221)	TM	0.5	½
7.5 (28.4)	23 (86)	9 (34)	23 (87)	1600 (110)	TM	0.75	½
15 (57)	45 (169)	18 (68)	45 (170)	900 (62)	TM	1	½
24 (91)	72 (274)	29 (110)	73 (276)	575 (40)	TM	1.25	1
36 (136)	106 (401)	43 (163)	107 (405)	400 (27.6)	TM	1.5	1
49 (186)	146 (551)	59 (223)	147 (556)	290 (20)	TM	1.75	1 ½ M/ 1 F
73 (278)	218 (825)	88 (333)	220 (833)	200 (13.8)	TH	2.125	2 M
92 (347)	272 (1031)	110 (416)	275 (1041)	160 (11)	TH	2.375	2 M
112 (423)	332 (1256)	134 (507)	335 (1268)	130 (9)	TH	2.625	2M
146 (552)	436 (1650)	175 (662)	440 (1666)	100 (6.9)	TH	3	2½M
198 (751)	593 (2245)	238 (902)	599 (2267)	74 (5.1)	T	3.5	2½M

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 ceramic. Valve gaskets are PTFE. Custom materials quoted on request. Pump body is cast iron. Cover and coupling guard are cast aluminum. 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 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 150psi (11kg/cm<sup>2</sup>) rated pressure and rated flow is reduced 5%. 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 or disc type, inlet and outlet check valves are standard. Double check valves are optional on all ball-type check valves. Ratings of 1000 psi (70kg/cm<sup>2</sup>) and above have double check valves as standard design.

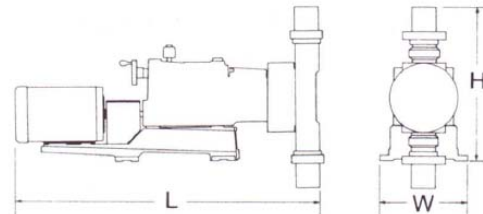
**Motors:** ½ or ¾ HP, 1750 RPM, foot mounted motors are used depending on rated pressure.

### Custom Engineered Designs

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

### Dimensions

PULSA 7440	L	H	W	Approx. Shipping Weight
Inches	38	17	9	240 lbs.
Centimeters	96.5	43.2	22.9	109 kg.



[pulsafeeder.com](http://pulsafeeder.com)

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