Metering Pumps

HRP Series

- High resolution/Ultra compact 4" x 2.5" x 3.5"
- Internal or external control
- IP65 waterproof and dustproof design
- DC voltage operation
- PVDF pump head with ceramic balls and FKM elastomers
- 4 types of control:
    - » pulse
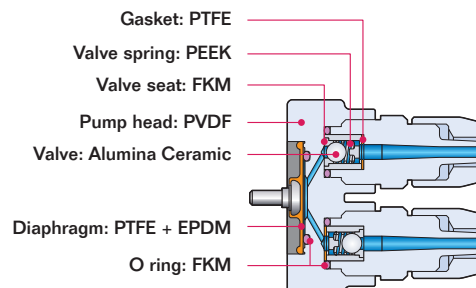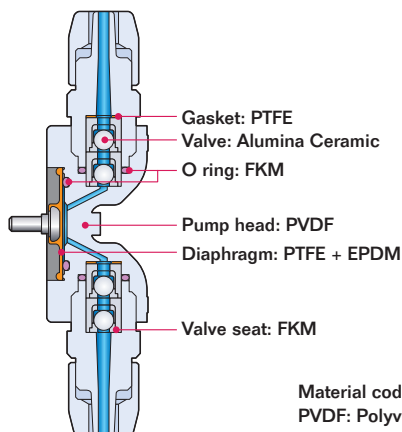   - » 4-20mA
    - » 1-5 VDC
    - » start/stop

Specifications

Model	Flow Rate ml/min	Max Discharge Pressure PSI (MPa)	Stroke rate spm	Tube connection	Power Voltage V	Power consumption W	Current A	Weight lbs (kg)
HRP-54V/H-1	0.055 - 38	29 (0.2)	0-720	1/8" x 1/4" 3mm x 6mm 4mm x 6mm	DC12	5.6	1.5	1.1 (0.5)
HRP-54V/H-2					DC24		1.0	

Liquid & ambient temperature 0 - 40°C   Allowable voltage deviation ±5% of rated voltage

Control type	Max Speed	Operation	Input signal
Pulse	720 spm	1 stroke per pulse (synchronous operation)	Dry contact or open collector
4-20mA	720 spm	4-20 mA proportional to 0-720 spm	Analog 4-20 mA DC
1-5VDC	720 spm	1-5 VDC proportional to 0-720 spm	Voltage 1-5 VDC (Current capacity of 25 mA or more)
Start/Stop	720 spm (fixed)	Pump stops during contact input	Dry contact or open collector

Materials

Gasket: PTFE
Valve: Alumina Ceramic
O ring: FKM
Pump head: PVDF
Diaphragm: PTFE + EPDM
Valve seat: FKM

Gasket: PTFE
Valve spring: PEEK
Valve seat: FKM
Pump head: PVDF
Valve: Alumina Ceramic
Diaphragm: PTFE + EPDM
O ring: FKM

Material code
PVDF: Polyvinylidene difluoride
FKM: Fluorine-contained rubber
PTFE: Polytetrafluoroethylene

WALCHEM

IWAKI America Inc.

HRP | 5 | 4 | V | — | 1 | P | 1 | — | 00
1 | 2 | 3 | 4 | | 5 | 6 | 7 | | 8

1 PUMP SERIES

2 DRIVE UNIT
Average power consumption 5 = 5.6W

3 DISCHARGE CAPACITY
4 = 38 mL/min

4 PUMP HEAD
V = Vertically oriented
H = Horizontally oriented

5 POWER VOLTAGE
1 = 12 VDC
2 = 24 VDC

6 CONTROL METHOD
P = Pulse
A = 4-20 mA
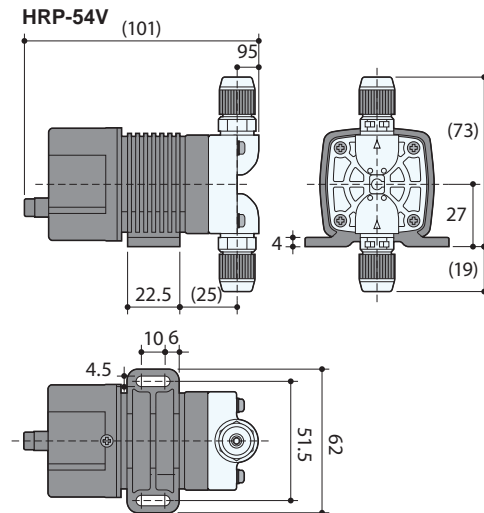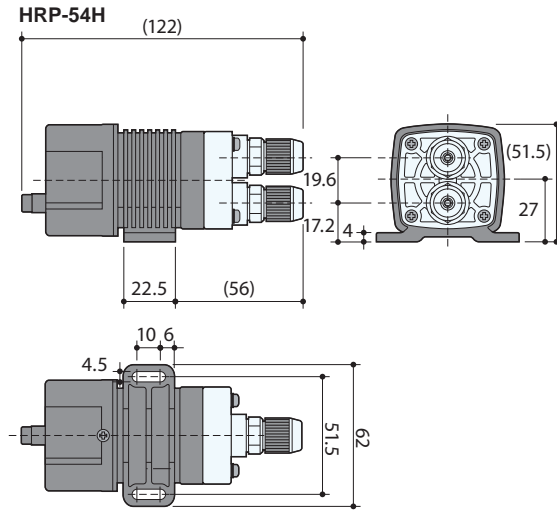V = 1-5VDC
S = Start/stop

7 TUBE CONNECTION
1 = 3mm x 6mm
2 = 4mm x 6mm
3 = 1/8" x 1/4"

8 SPECIAL VERSION

Dimensions

HRP-54H

HRP-54V

ABOUT US

Walchem integrates its advanced sensing, instrumentation, fluid pumping and communications technologies to deliver reliable and innovative solutions to the global water treatment market.
Our in-house engineering is driven by quality, technology and innovation. For more information on the entire Walchem product line, visit: www.walchem.com