IWAKI

HRP
series

Electromagnetic DC Metering Pump

Iwaki HRP metering pumps enable high-speed, accurate flow in a compact package. Designed specifically for OEM applications, the HRP pump has been sized for easy integration into many types of systems. Multiple control options including proportional, 1:1 digital pulse following, and simple start/stop control, combined with horizontal and vertical configurations enable the HRP pump to be customized for many applications.

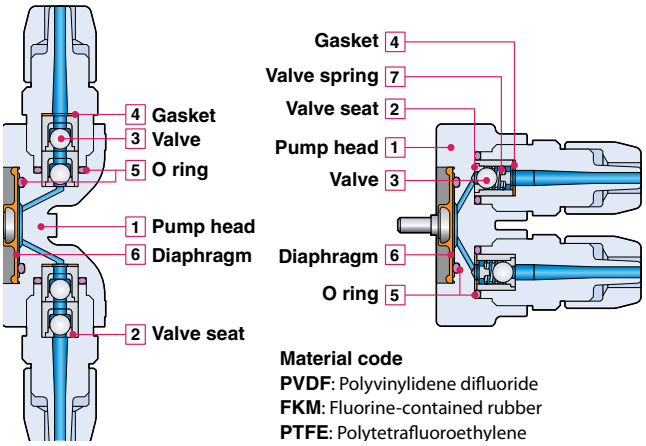
- **Reduce system size -** Ultra-compact (4" x 2" x 3.5") design makes it easy to fit this pump into almost any system.
- **Enhanced portability -** Available in 12 or 24 VDC allows for increased portability of your system.
- **Ease of Integration -** From simple to sophisticated, internal or external control, HRP's 4 different integrated control options ensure a custom fit.
- **Simplify your fluid path** - Vertical or horizontal porting configurations provide a smooth fluid path on every application.

Standard applications

- Sterilizing/Reprocessing Equipment
- Analytical Equipment
- Chemical Dosing
- Medical Devices
- Water Quality
- Car Wash

HRP series

Wet End Materials



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

Part	Material	Part	Material
1 Pump head	PVDF	**5** O-ring	FKM
2 Valve seat	FKM	**6** Diaphragm	PTFE-EPDM
3 Valve	Alumina Ceramic	**7** Valve spring	PEEK
4 Gasket	PTFE	* Other materials available on request	

Model Identification

HRP - 5 4 V - 1 P 1 - □□

- **Series name**
- **Drive unit** (Average power consumption) **5**: 5.6W
- **Discharge capacity** **4**: 38mL/min
- **Pump head** **V**: Vertically oriented **H**: Horizontally oriented
- **Power voltage** **1**: 12VDC **2**: 24VDC
- **Control method** **P**: Pulse control **A**: 4-20mA control **V**: 1-5V control **S**: Stop control
- **Connection bore**

No.	Tube connection bore
1	Ø3×Ø6
2	Ø4×Ø6
3	Ø1/8"×Ø1/4"

- **Special version**

Specifications

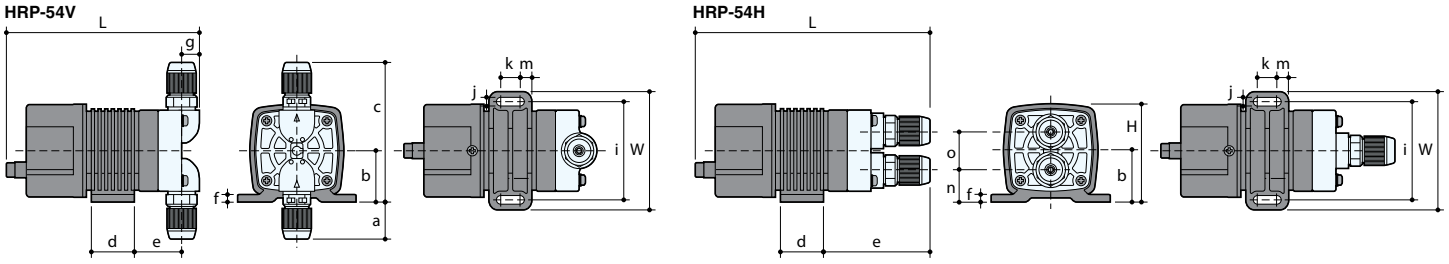
Model	Flow Rate ml/min	Max Discharge Pressure PSI (MPa)	Stroke rate spm	Tube connection	Power Voltage V	Power consumption W	Current A	Weight lbs (kg)
HRP-54V/H-1	0.055 - 38	29 (0.2)	0-720	1/8" x 1/4" 3mm x 6mm 4mm x 6mm	DC12	5.6	1.5	1.1 (0.5)
HRP-54V/H-2					DC24		1.0	

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

Integrated Control Options

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

Dimensions



Dimensions in mm (nominal)

Model	W	H	L	a	b	c	d	e	f	g	i	j	k	m	n	o
HRP-54V	62	---	(101)	(19)	27	(73)	22.5	(25)	4	9.5	51.5	4.5	10	6	---	---
HRP-54H		(51.5)	(122)	---		---		5(6)		---					17.2	19.6

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