

## 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.

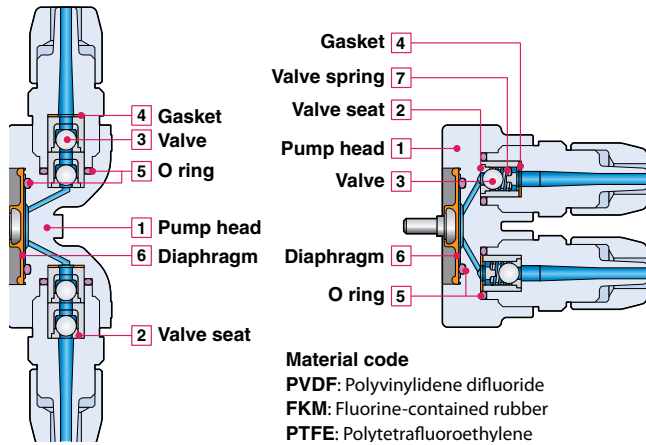
- **Reduce system size** - Ultra-compact (4" x 2" x 3.5") design makes it easy to fit this pump into almost any system.
- **Enhanced portability** - Available in 12 or 24 VDC allows for increased portability of your system.
- **Ease of Integration** - From simple to sophisticated, internal or external 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



## Wet End Materials



## 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
- Special version**
- Connection bore**

No.	Tube connection bore
1	Ø3×Ø6
2	Ø4×Ø6
3	Ø1/8"×Ø1/4"
- Control method**  
P: Pulse control  
A: 4-20mA control  
V: 1-5V control  
S: Stop control

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	

## 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"	DC12	5.6	1.5	1.1 (0.5)
HRP-54V/H-2				3mm x 6mm 4mm x 6mm	DC24		1.0	

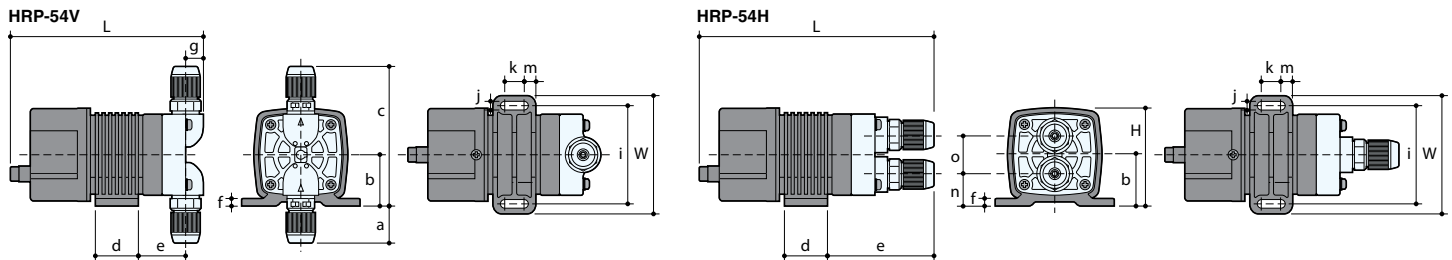
Liquid & ambient temperature 0 - 40°C

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)					---	---