

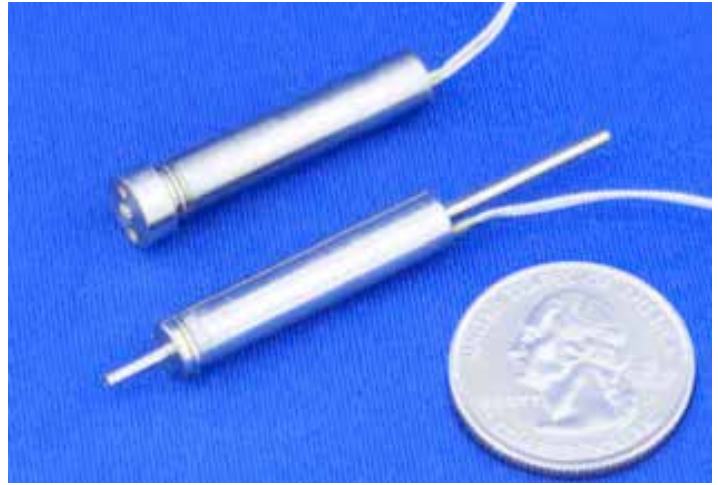
TAKASAGO FLUIDIC SYSTEMS

HIGH PRESSURE ULTRA SMALL SOLENOID VALVE

HVA / HVAL Series

DESCRIPTION

The Takasago HVA/HVAL Series high pressure ultra small valves were originally designed for satellite propulsion systems weighing only 8 grams. These compact and lightweight valves meet ISO 19683 vibration and shock requirements and achieve pressure of 2 MPa. These valves operate using 12 VDC and can be made available with latching features with a holding voltage of 3 VDC. The HVA/HVAL valves are normally closed (NC) with a weight of only 8 grams.



FEATURES

- 2 MPa / 290 PSI pressure rating
- Compact and lightweight
- ISO19683 vibration and shock requirements met with certain variations (HVA-2-MFF)
- Latching type (HVAL series) provides an option with low power consumption for a longer open state

APPLICATION

- For High Pressure Microfluidics Applications
- For Satellite Propulsion Systems/Thrusters

SPECIFICATIONS

GENERAL

Model Number		HVA-2-MFF	HVA-2-N1F	HVAL-2-N1F
SolenoidType		Normally Closed		Latching
Orifice Diameter		0.4 mm		
CV Value		0.0035	0.0040	
Port Connection		Gasket (Manifold Mount)	1/16" tube	
Operating Pressure Range		0 ~ 2 MPa (Inlet Port)		
Rated Voltage		12 VDC		
Holding Voltage		3 VDC		N/A
Power Consumption	Rated Voltage	6.5 W		7 W
	Holding Voltage	0.4 W		N/A
Duty Cycle	Rated Voltage	Intermittent ED: 30% Maximum On Time: 1.0 s		Intermittent ED: 20% On Time : 0.05 ~ 0.1 s
	Holding Voltage	Continuous		N/A
Sealing Material		FKM (Optionally FFKM, PTFE)		
Outer Dimensions		Dia.8 × L34 mm		Dia.6.2 × L58 mm
Weight		8 g		

*1: The temperature range may change depending on the sealing material

Note: Details including specifications may change at any time without notification.