

HBV · HBI

Features 1.Compact 2.Welded structure

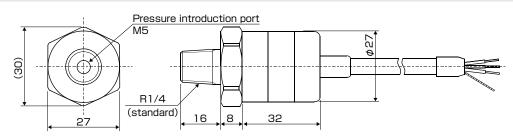
- Absolute pressure sensor with a welded structure that does not use an O-ring in the wetted part
- Capable of high-accuracy vacuum region measurement without being affected by atmospheric fluctuations
- Support of a wide range of pressure media such as gas and medicinal solution
- Output signal of 1 to 5 VDC or 4 to 20 mADC from a built-in amplifier circuit

Specifications

Model	HBV • HBI			
Wodel	-050KP	-100KP	-300KP	-600KP
Rated pressure	0 to 50kPa abs	0 to 100kPa abs	0 to 300kPa abs	0 to 600kPa abs
Pressure type	Absolute pressure			
Overpressure	HBV: 200% of the rated pressure / HBI: 150% of the rated pressure			
Wetted part material	Diaphragm: SUS316L Pressure port: SUS316			
Sealing liquid	Silicone oil			
Applicable media	Gas and fluid (media not damaging the wetted part material)			
Power supply	12 to 28VDC			
Output	1 to 5VDC only HBV: 1 to 5VDC / HBI: 4 to 20mADC			
Current consumption	HBV: 6mA or less			
Load resistance	HBV : 1k Ω or more $/$ HBI : 600 Ω or less (at power of 24 VDC)			
Responsiveness	5msec or less			
Accuracy (linearity)	\pm 0.5% F.S. or less * 1 (\pm 0.3% F.S. or less)			
Temperature characteristics	\pm 0.05% F.S. $/$ °C or less (0 to 60°C)			
Compensated temperature range	0 to 60℃			
Operating temperature range	– 20 to 80°C (no freezing allowed)			
(Measurement medium temperature)	$-$ 20 to 100 $^\circ$ C (no freezing allowed)			
Operating humidity range	35 to 85% RH (no dew condensation allowed)			
Pressure connection port	R1/4 (standard) · R3/8 · R1/2 · G1/4 · G3/8			
Cable	ϕ 6 vinyl : 500mm $/$ 2000mm (standard) Shield cable			
Structure	IP65			
Insulation resistance	100M Ω or more \angle 500VDC			
Withstand voltage	500VAC, 1 minute			
Vibration resistance	98.1 m $/$ s ² , 2 hours (X, Y, and Z directions)			
Weight	Approx 200g			
Impact of mounting orientation (port orientation changed from downward to sideways)	+ 0.3% F.S.	+ 0.1% F.S.		

[%] 1.We also manufacture high-accuracy pressure sensors (accuracy: \pm 0.25% F.S. or less).

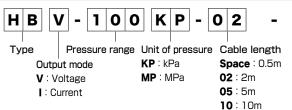
Dimensions (Units:mm)



Cables / wires

	HBV	НВІ
Red	Power supply +	Power supply +
White	Output	Power supply -
Black	Common	_

Model



R 3

Pressure connection port **Space**: R1/4 (standard)

R3: R3/8 R4: R1/2 G2: G1/4 G3: G3/8