



CXV • CXI



Features 1.Connector type 2.Flat type

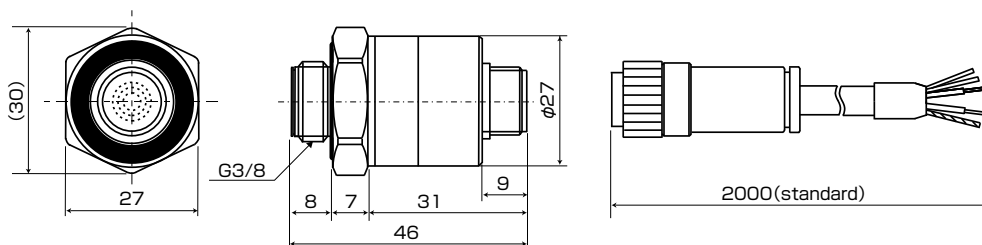
- Connector type of the "HX series" gauge pressure sensor
- Easy to handle and highly maintainable
- Flat-type pressure sensor ideal for measuring the pressure of viscous fluid
- Gauge pressure sensors with a stainless steel diaphragm structure
- Wetted part easy to clean and ideal for measuring the pressure of medicinal solution and other types of fluid

Specifications

Model	CXV • CXI				
	N-100KP	-100KP	-300KP	-500KP	-001MP
Rated pressure * 1	0 to -100kPa	0 to 100kPa	0 to 300kPa	0 to 500kPa	0 to 1MPa
Pressure type	Gauge pressure * 2				
Overpressure	CXV : 200% of the rated pressure / CXI : 150% of the rated pressure				
Wetted part material	Diaphragm : SUS316L Pressure port : SUS316L O-ring : Fluororubber (standard)				
Sealing liquid	Silicone oil				
Applicable media	Gas and fluid (media not damaging the wetted part material)				
Power supply	12 to 28VDC				
Output	CXV : 1 to 5VDC / CXI : 4 to 20mADC				
Current consumption	CXV : 6mA or less				
Load resistance	CXV : 1k Ω or more / CXI : 600 Ω or less (at power of 24 VDC)				
Responsiveness	5msec or less				
Accuracy (linearity)	± 0.5% F.S. or less * 3 (± 0.3% F.S. or less)				
Temperature characteristics	± 0.05% F.S. / °C or less (0 to 60°C)				
Compensated temperature range	0 to 60°C				
Operating temperature range	- 10 to 80°C (no freezing allowed)				
Operating humidity range	35 to 85% RH (no dew condensation allowed)				
Pressure connection port	G3/8				
Cable	φ 6 vinyl (with connector) : 2000mm (standard) Shield cable + atmospheric relief pipe				
Structure	IP66				
Insulation resistance	100M Ω or more / 500VDC				
Withstand voltage	500VAC, 1 minute				
Vibration resistance	98.1m / s ² , 2 hours (X, Y, and Z directions)				
Weight	Approx 210g				
Impact of mounting orientation (port orientation changed from downward to sideways)	+ 0.1% F.S.	+ 0.1% F.S.			

* 1. We also manufacture compound pressure sensors (gauge pressure of 500 kPa or less).
 * 2. Make sure that the operating vacuum pressure is 10 kPa abs or more. (Operating temperature range: 0 - 60°C)
 * 3. We also manufacture high-accuracy pressure sensors (accuracy: ± 0.25% F.S. or less).

Dimensions (Units : mm)



Cables / wires

	CXV	CXI
Red	Power supply +	Power supply +
White	Output	Power supply -
Black	Common	—
Atmospheric relief pipe	Yes	Yes

Model

C X V N - 1 0 0 K P - 0 2 - V

Type Output mode
V : Voltage
I : Current

Pressure range
100 : 0 to 100kPa
300 : 0 to 300kPa
500 : 0 to 500kPa
001 : 0 to 1MPa

Unit of pressure
KP : kPa
MP : MPa

Cable length
Space : 0.5m
02 : 2m
05 : 5m
10 : 10m

O-ring
V : Fluororubber
N : NBR
X : Other

Special
Space : Positive pressure
N : Negative pressure
C : Compound pressure