

High-pressure-resistant Pressure Transducer



High temperatures (Up to 100°C) High-pressure-resistant and highly accurate pressure transducer

- High temperatures (Up to 100°C)
- High pressure resistant
- Highly accurate



Pressure
Transducers

Outline

General

High temp.
Low temp.

Absolute pressure
High pressure

Pressure
transmitter

Differential
pressure

Distributed
pressure

Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within $\pm 0.1\%$ RO
Hysteresis	Within $\pm 0.1\%$ RO
Rated Output	1.5 mV/V $\pm 5\%$

Environmental Characteristics

Safe Temperature	-30 to 110°C
Compensated Temperature	-10 to 100°C
Temperature Effect on Zero	Within $\pm 0.01\%$ RO/°C
Temperature Effect on Output	Within $\pm 0.01\%$ /°C

Electrical Characteristics

Safe Excitation	12 V AC or DC
Recommended Excitation	1 to 8 V AC or DC
Input Resistance	350 Ω $\pm 1.4\%$
Output Resistance	350 Ω $\pm 1.4\%$
Cable	4-conductor (0.75 mm ²) fluonlex shielded cable, 8 mm diameter by 5 m long, bared at the tip (Shield wire is not connected to the case.)

Mechanical Properties

Safe Overloads (*1)	300%
Ultimate Overloads (*2)	117.6 MPa (10 to 50KA) 196.1 MPa (100, 200KA)
Natural Frequencies	See table below.
Material	Case: SUS (Metallic finish) Liquid-contacting part: SUS 630
Weight	Approx. 400 g (Excluding cable)
Mounting Screw	G3/8, male
Degree of Protection	IP52 (IEC 60529)

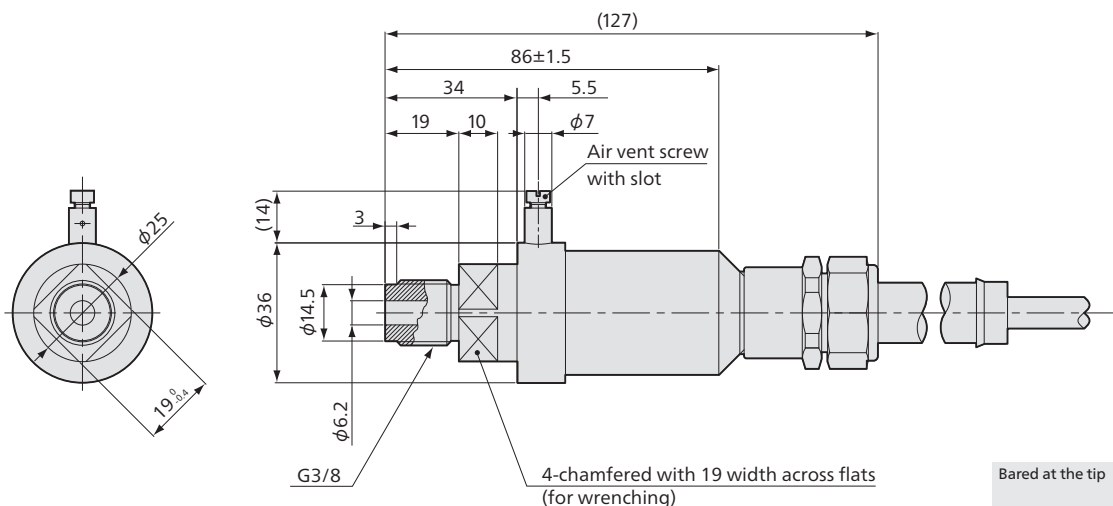
Standard Accessories Gasket (Mild copper)

Models	Rated Capacity	Natural Frequencies (Approx.)
PGR-10KA	1 MPa	12 kHz
PGR-20KA	2 MPa	17 kHz
PGR-50KA	5 MPa	29 kHz
PGR-100KA	10 MPa	42 kHz
PGR-200KA	20 MPa	60 kHz

(*1) Maximum overload which is applied without causing any permanent change in specified characteristics.

(*2) Maximum overload which is applied without causing any structural damage.

Dimensions



Bared at the tip