PG-U
Pressure Transducer



Wide capacity range

- **Rated capacity: 200 kPa to 50 MPa**
- **Detachable cable for easy installation**

Pressure transducers with an airtight structure filled with inert gas. They allow for long-term stable measurement.

To Ensure Proper Usage

- PG-200 to 500KU cannot be used for endurance tests & fatigue tests.
- Suitable for measuring oil pressure. Please contact us if using for gas pressure measurement.

Specifications

Performance	
Rated Capacity	See table below.
Nonlinearity	Within ±0.2% RO (2 to 10KU: Within ±0.3% RO)
Hysteresis	Within ±0.2% RO (2 to 10KU: Within ±0.3% RO)
Repeatability	0.1% RO or less
Rated Output	2 mV/V ±0.5% (2 to 10KU: 2 mV/V ±1%)
Environmental Characteristics	
Safe Temperature	−20 to 70℃
Compensated Temperature	−10 to 60℃
Temperature Effect on Zero	Within ±0.02% RO/℃
Temperature Effect on Output	Within ±0.02%/℃
Electrical Characteristics	
Safe Excitation	15 V AC or DC
Recommended Excitation	1 to 10 V AC or DC
Input Resistance	350 Ω ±1%
Output Resistance	350 Ω ±1%
Accessory Cable	4-conductor (0.3 mm²) chloroprene shielded cable, 7.6 mm diameter by 3 m long
(TT-01)	Sensor side: Terminated with a waterproof connector plug 1108-12A10-7M
	Measuring instrument side: Terminated with a connector plug PRC03-12A10-7M
	(Shield wire is connected to the case.)
Mechanical Properties	
Safe Overloads	150%
Natural Frequencies	See table below.
Material	Case: Anode oxidized coated aluminum (10KU or more: die cast zinc alloy.)
	Liquid-contacting part: SUS630
Weight	Approx. 300 g (2, 5KU: approx. 500 g) (Excluding cable)
Degree of Protection	IP54 (JIS C 0920/IEC 60529)
Mounting Screw	G3/8 male
Compliance	Directive 2011/65/EU, (EU)2015/863 (10 restricted substances) (RoHS)
Notes	
The air vent of this product is designed on the assumption that the pressure medium is a liquid. Therefore, if used to measure gas pressure, leakage may occur. We recommend using a pressure transducer that does not have an air vent for gas pressure measurement.	

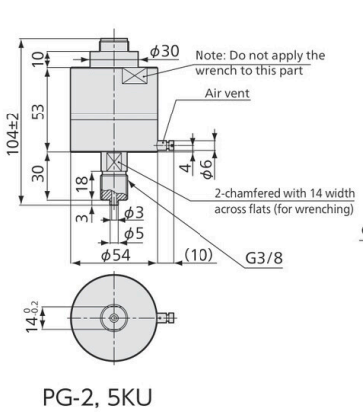
■Standard Accessories Gasket (Mild copper)

■Models

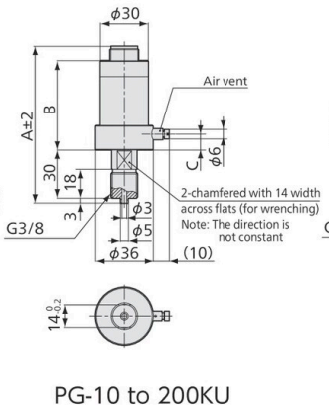
Model	Rated Capacity	Natural Frequencies (Approx.)	A	B	C
PG-2KU	200 kPa	2 kHz	–	–	–
PG-5KU	500 kPa	4 kHz			
PG-10KU	1 MPa	7 kHz	98	56	10
PG-20KU	2 MPa	13 kHz			
PG-50KU	5 MPa	21 kHz	102	60	13
PG-100KU	10 MPa	29 kHz			
PG-200KU	20 MPa	40 kHz			
PG-300KU	30 MPa	45 kHz	–	–	–
PG-500KU	50 MPa	50 kHz			

*Models with no air vent are available. Please contact us.

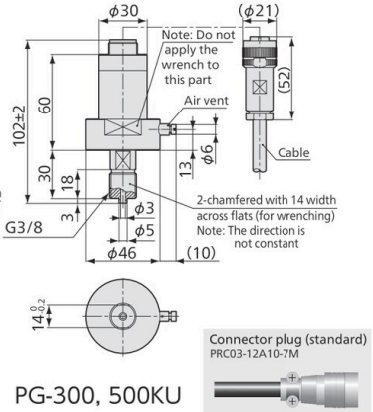
■Dimensions



PG-2, 5KU



PG-10 to 200KU



PG-300, 500KU

Connector plug (standard)
PRC03-12A10-7M

