

Pureron PC-601 Series Hastelloy® C-22 Pressure Transducers For
Highly Corrosive and Reactive Specialty Gasses

PC-601 SERIES



- Highly Resistant to Corrosion by HBr and HCl Gases:** The use of Hastelloy C-22 electropolished on the inner surface of materials in contact with corrosive gases results in a pressure transducer that demonstrates outstanding resistance to corrosion by halogenic specialty gases such as HBr and HCl.
- High Accuracy :** High accuracy is achieved on the order of a span of $\pm 0.25\%$ from a best-fit straight line, including the effects of non-linearity, hysteresis and repeatability.
- Wide Pressure Range:** Compatible pressure ranges are from -1 to 175 kgf/CM² and -1 to 210 kg/CM² with respect to atmospheric pressure, and from 0 to 2586 torr with respect to absolute pressure.
- High Durability and High Reliability:** Durability testing under both vacuum and atmospheric conditions yielded results demonstrating a minimum service life of more than 1 million operating cycles.



PC-601

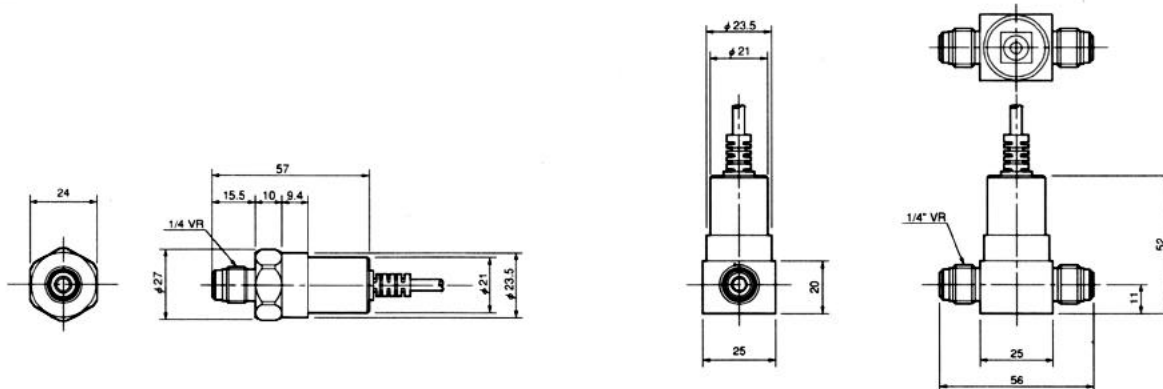
SERIES

Numerous halogenic speciality gases, including HCl and HBr, are employed in the processes used to manufacture semiconductor devices. These gases are both extremely corrosive and reactive. Consequently, these gases can cause contamination of these semiconductor processes as a result of reacting with minute amounts of moisture present on the inner surface of stainless steels. These reactions produce by-products which then result in particle generation. Pureron has specifically developed its PC-601 Series of pressure transducers for use with such highly corrosive and reactive speciality gases. The use of Hastelloy® C-22 for the materials in contact with gases results in a pressure transducer that demonstrates outstanding resistance to corrosion by halogenic speciality gases such as HBr and HCl.

SPECIFICATIONS

Gauge/Absolute	Gauge Pressure sensor				Absolute Pressure sensor
Pressure Range PSI	25G	50G	100G	3000G	50A
Kgf/cm ²	—1 to 1.75	—1 to 3.5	—1 to 7	—1 to 210	—
torr	—				0 to 2586
Accuracy (%Full Scale)	0.5%		0.25%		0.5%
Materials in contact	HASTELLOY® C-22 (Electropolished)				HASTELLOY® C-22 (Electropolished)
Burst Pressure	Full Scale×5			Full Scale×2	Full Scale×5
Overload Pressure	Full Scale×2			Full Scale×1.8	Full Scale×2
Operating Temperature Range	—57°C to +93°C				
Compensated Temperature Range	—1°C to +71°C				
Leak Rate	2×10 ⁻⁹ atm cc/sec and below				
Fittings	1/4" VCR. SWAGELOCK, MCG, Super JSK compatible				

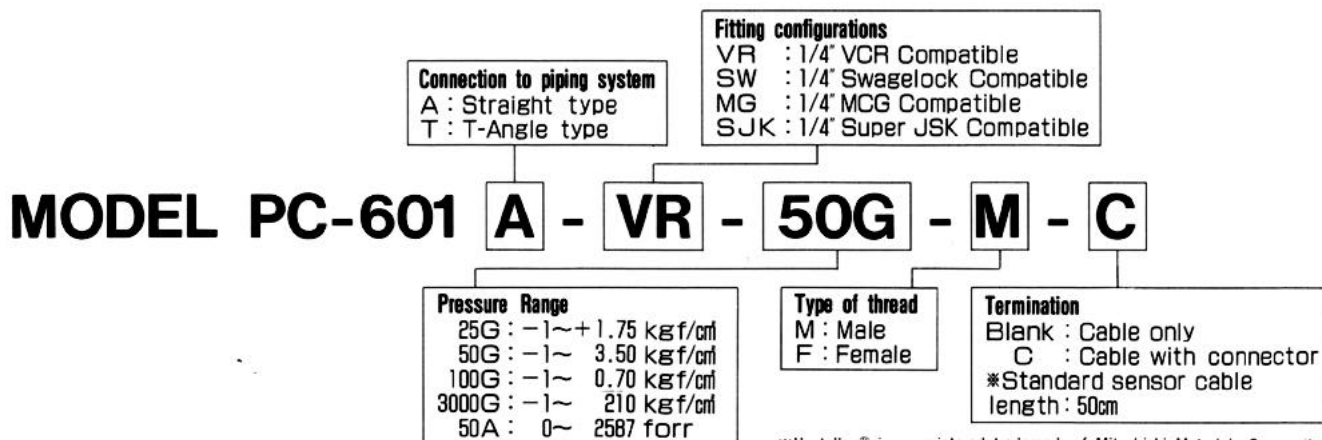
DIMENSIONS



MODEL PC-601A-VR

MODEL PC-601T-VR

HOW TO ORDER



*Hastelloy® is a registered trademark of Mitsubishi Materials Corporation.

Specifications subject to change without notice.