



CHEMICAL SEAL SYSTEMS

SA1000 - P SERIES

PTFE has an almost absolute chemical resistance to all media and is only corroded by liquid sodium and fluorine compounds at high pressures and temperatures.

With its extremely low intermolecular forces, PTFE belongs to a group of materials with the lowest coefficients of friction giving it unrivalled anti-adhesive properties.

These properties make it perfect for use in process instrumentation and in particular for pressure measuring assemblies.



PCI's SA1000 - P diaphragm seal series of seals utilises PTFE in the construction of the seal housing. PTFE-lined stainless steel is also an option when selecting a diaphragm material in a corrosive environment.

Standard Features

Bolting	8 x 8mm bolts
Upper Body	316L Stainless Steel
Diaphragm Diameter	48mm
Diaphragm Material	316L Stainless Steel
Operating Temperature	-50 to +85°C
Max. Process Pressure	10 bar
Process Connection	½" BSP Female
Instrument Connection	½" BSP Female

SA1000 - B SERIES



In the SA1000-B chemical diaphragm seal series, the PTFE lower housing is replaced with one in stainless steel. This allows the design to be used in high temperature, high pressure situations where corrosive media are less of an issue.



Standard Features

Bolting	8 x 8mm bolts
Upper Body	316L Stainless Steel
Diaphragm Diameter	48mm
Diaphragm Material	316L Stainless Steel
Operating Temperature	-50 to +200°C
Max. Process Pressure	100 bar
Process Connection	½" BSP Female
Instrument Connection	½" BSP Female

With a wide range of diaphragm materials available, however, the SA1000-B is still able to offer excellent anti-corrosion properties and can operate under pressures up to 100 bar and temperatures up to 200°C.

Options	
Process Connection	
B Series	½" NPT Female, ½" BSP / NPT Male
P Series	½" NPT Female, ¼" BSP / NPT Female
Diaphragm Material	Hastelloy C276, Monel 400, PTFE-lined stainless steel
Transmission Fill	TO-23, TO-31, TO-41, TO-47
Capillary	Armoured 316L stainless steel

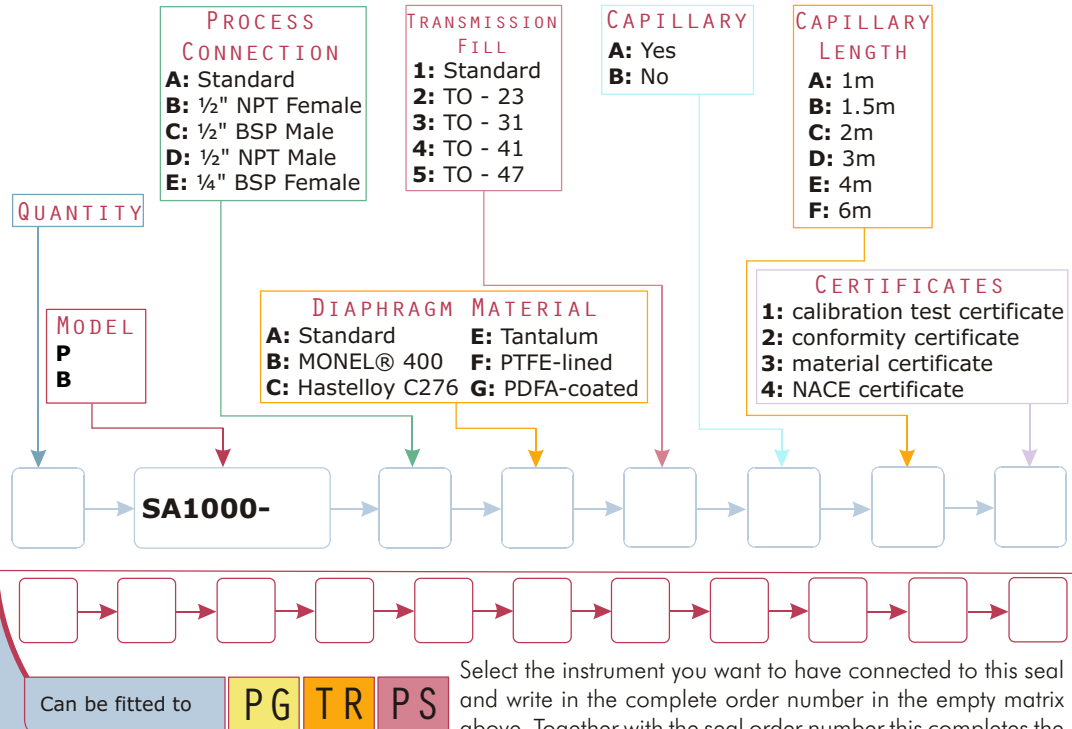
**Effects of temperature on pressure readings per ±10 °C (in mbar)
~ measured from 20°C**

Series	dD (mm)	TRANSMITTER TYPE					Pressure (bar)	GAUGE DIAMETER			Seal	Capillary /m
		GP	AP	DP	Seal	Capillary /m		63mm	100mm	160mm		
P	48	5	5		5	10.35	<40	13	52	90	7.2	15
B	48			0.05	1.24	2.28	>40	1	4	8	1.2	0.9



ORDERING MATRIX

Locate the order code for your specification and enter it into the appropriate box. See the Diaphragm Seals introduction and the tables on the previous page for more information about each component.



Select the instrument you want to have connected to this seal and write in the complete order number in the empty matrix above. Together with the seal order number this completes the specifications for your instrument.

Can be fitted to

PG TR PS