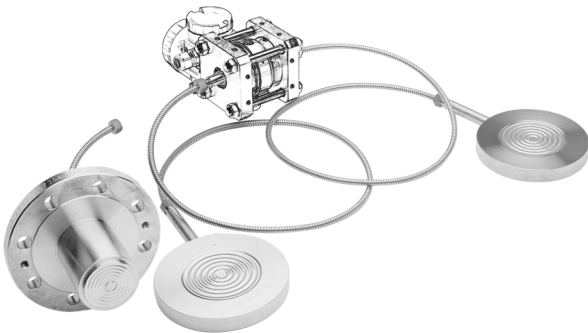


S990A Diaphragm Seal for Pressure + d/p Transmitter
S990B Flange Diaphragm Seal for Pressure + d/p



Diaphragm seals are used if the physical and chemical parameters of the process medium do not permit direct mounting of the transmitter at the measuring point. These are, for example, aggressive, hot, high viscosity, crystallizing process media or such containing solids. Diaphragm seals are mounted at the side means of a pressure, absolute or differential pressure transmitter. They can be connected to the transmitter directly or by capillary tube. The pressure signal is transmitted hydraulically between the diaphragm seal and the transmitter separating of the pressure medium to diaphragm of transmitter.

- Mounting to all FOXBORO ECKARDT transmitters for p, p_{abs} and d/p possible
- Process temperatures from – 90 °C to + 400 °C
- Process or static pressure up to 400 bar
- Diaphragm seal screwed to the transmitter or - in case of vacuum or low pressure applications - fully welded
- Different versions of cell or flange diaphragm seal for sandwich and flange mounting
- Standardized versions according to DIN and ANSI
- Use in plants with obligation for approval
- Application in Zone 0 according to VbF
- Wide range of materials and fill fluids:
1.4571, 1.4404, Hastelloy C, Monel, Tantalum
Coating: PTFE-layer sticked, ECTFE, PFA

For complete specification, refer to Product Specification Sheet PSS EMP9001 A-(en)

S990A

Extension L= 0 mm

Extension L= 50 mm / 2 inch



S990B

Extension L= 0 mm

Extension L= 50 mm / 2 inch



Fill fluids

Fill fluid	Model Code	Application	Density kg/m ³ at 25 °C	dyn. viscosity mPa • s at 25 °C	Permitted temperature of process medium		Coding for version
					at p = p _{amb}	p < p _{amb}	
Silicon oil	1	standard	960	49	– 20 ... + 200 °C	-	KN 2
	2	for high temperatures	1070	4,6	– 10 ... + 400 °C	– 10 ... + 200 °C	KN3.2
	4	for low temperatures	914		–90 ... + 180 °C	– 90 ... + 80 °C	KN 17
Inert fill fluid	5	for oxygen and chlorine service	1870	21	– 40 ... + 200 °C	– 40 ... + 80 °C	KN 21
Vegetable oil ¹⁾	6		930	45	– 20 ... + 300 °C	– 10 ... + 200 °C	KN 13

1) other fill fluids (e.g. glycerine) to be applied in e.g. food industry on request

Model Codes

Cell-diaphragm seal for pressure+d/p transmitter	S990A
Flange-diaphragm seal for pressure+d/p transmitter	S990B
Technical specification on request	