

DIAPHRAGM SEALS

Isolate and Protect
Process System
Instrumentation



Isolate and Protect

- Protect gauges and other system instrumentation from process fluid contamination and corrosion.
- Accurately transfer process pressure without direct contact with process fluids.
- Prevent erratic surges and clogging due to solids in process fluids.
- Protect gauges from freezing and slurries.
- Ensure accuracy and reliability of pressure instrumentation when working with corrosive or solids-laden fluids.
- Reduce costs by replacing expensive gauges with low cost utility gauges.

Features

- SENTINEL[™] Diaphragm Seals are easily installed, come in a variety of chemically resistant materials, and work in both pressure and vacuum conditions.
- CPVC, PVC, Polypropylene, PVDF, 316L Stainless Steel and Alloy 20 housings with EPDM or PTFE diaphragms.
- Pressure ranges up to 1,000 psi (68.9 bar).
- Wide variety of gauge options with gauge accuracy of +/- 2% or better full deflection.
- Models available with no gauge, custom fills, and factory installed instrumentation provided by customer.
- NPT, BSP, socket weld, tri-clamp, flange and union inlet options.



UNCONDITIONALLY GUARANTEED
SENTINEL Diaphragm Seal housings are unconditionally guaranteed for life not to fail or Blacoh will replace them at no cost.



SENTINEL Diaphragm Seals, also referred to as gauge guards, employ a chemically resistant diaphragm to effectively isolate process fluids from gauges and other system instrumentation. Without proper protection, process fluids regularly contaminate and damage in-line system instrumentation. The strength and durability of SENTINEL diaphragm seals isolate and protect all forms of system instrumentation from the hazards of corrosive process fluids and slurries.

SPECIFICATIONS

HOUSING: CPVC, Polypropylene, PVC, PVDF, Alloy 20, SS

DIAPHRAGM: EPDM, PTFE

INLET SIZE: 0.25" (8mm), 0.5" (15mm), 0.75" (20mm)

INLET TYPE: FNPT, BSP, ANSI Flange, Socket Weld, Tri-clamp, Union

PRESSURE RATING: 200 psi (13.7 bar), PVDF 250 psi (17.2 bar), Metal 1000 psi (68.9 bar)

CERTIFICATIONS: ARRA, 3.1 Cert, Cert of Origin



Housing Material	Bladder Material	Inlet Size	Inlet Type	Max Pressure
CPVC Polypropylene PVC PVDF	EPDM PTFE	0.25" (8mm)	FNPT BSP ANSI Flange Socket Weld Tri-clamp Union	200 psi (13.7 bar)
		0.5" (15mm)		PVDF 250 psi (17.2 bar)
Alloy 20 Stainless Steel		0.75" (20mm)		1000 psi (68.9 bar)

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