

# **Frequently Asked Questions**

### SENTINEL

#### **Functions & Usage**

What are diaphragm seals used for?

SENTINEL Diaphragm Seals ensure gauge and switch accuracy, smooth out erratic pressure surges, extend pressure instrumentation life, and protect gauges from freezing and slurries. Without proper protection, process fluids regularly contaminate and damage system instrumentation. SENTINEL Diaphragm Seals are unconditionally guaranteed to protect and isolate all forms of system instrumentation from hazardous and corrosive process fluids.

What is used to fill the diaphragm seal?

The diaphragm seal housing and the gauge Bourdon tube are filled at the factory when a diaphragm is purchased complete with gauge. These pre-assembled diaphragm seals are filled with glycerine, silicone, mineral oil, or halocarbon. Consult warning tag on diaphragm seal for type of body fill. Unassembled diaphragm seals (no fill without gauge) must be completely filled with a temperature stable liquid fill fluid. Glycerine, silicone, mineral oil or halocarbon are commonly used fill fluids. Additionally, the gauge or other pressure instrument must also be filled with the fill fluid under vacuum. WARNING: Glycerine or Silicone could result in a spontaneous chemical reaction or explosion when combined with strong oxidizing agents. Do not use glycerine or silicone filled gauges or accessories in these types of service.

#### Sizing & Materials

• What sizes and materials are available for diaphragm seals?

SENTINEL Diaphragm Seals are available with inlet ports from 1/4 (6.35mm) to 3/4 (19.05mm). Standard models are available in stock, with custom models available through special order. Models are available in a full range of chemically resistant materials.

• What is the maximum pressure range for diaphragm seals?

SENTINEL Diaphragm Seals are designed for pressure ranges up to 1000 psi (68.9 bar).

What are SENTINEL valves used for?

SENTINEL Pressure Relief Valves are designed to protect pumping systems from over pressure damage caused by defective equipment or a blockage in the pump system line. SENTINEL Back Pressure Valves are designed to enhance the performance of pumping systems by applying a continuous back pressure to the system pump, while also acting as an anti-siphon valve.

What sizes and materials are available for SENTINEL pressure relief and back pressure valves?

SENTINEL valves are available in sizes up to 3 inches (76.2 mm). Wetted materials include PVC, CPVC, PP, PVDF, PTFE, 316L SS, Alloy 20 and Hastelloy C.

#### Warranty

What is the warranty on SENTINEL diaphragm seals?

SENTINEL Diaphragm Seals carry an unconditional lifetime guarantee of performance. Certain limitations and restrictions apply. Refer to Blacoh's Manufacturer's Limited Warranty and Return Policy for complete details.

## GENERAL

#### **Purchase & Delivery**

Where can I purchase Blacoh products?

Blacoh products are sold through a worldwide network of authorized distributors and select OEM customers. Blacoh distributors can provide end users with any local assistance they require. Consult Blacoh for the distributor in your area.

• What is the lead time for delivery?

Orders for in stock parts received before 3:00 p.m. PST are shipped on the same day. Orders for standard products/models are shipped within 48 hours.

#### **Chemical Compatibility**

Does Blacoh have a chemical compatibility guide?

There are many chemical resistance guides available for metal, plastic, and elastomer (rubber) materials that have been compiled by experts. Blacoh has chosen to use their expertise, referring to these guides to assist you in choosing the proper materials of construction for your application. Additional information is also available via the internet by searching chemical compatibility. Consult Blacoh or your local distributor for assistance.

Can Blacoh products be used when pumping harsh chemicals?

Blacoh products are available in a full range of chemically resistant materials for even the most corrosive applications.

#### Warranty

What is Blacoh's warranty policy?

All Blacoh products are guaranteed for workmanship and materials for two (2) years from shipment, with the exception of SENTINEL Diaphragm Seals and PTFE bellows. SENTINEL Diaphragm Seals are unconditionally guaranteed; PTFE bellows carry a three (3) year guarantee of performance. Certain limitations and restrictions apply. Refer to Blacoh's *Manufacturer's Limited Warranty and Return Policy* for complete details.

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