



Product Guide

Diaphragm Seal Pressure & Temperature Min/Max Guide

Highly Effective Protection for Your Pressure Instrumentation

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Introduction

Isolators, such as diaphragm seals and isolation rings, play a critical role in protecting pressure measurement instrumentation from harsh corrosive media, high-temperature processes or clogging that can occur at different points of an operation. These seals, which are commonly used in water and wastewater treatment plants, chemical processing and mining facilities, are designed to help keep applications running safely and efficiently.

Selecting the right seal depends on many factors including installation requirements, pressure and temperature limitations and media composition, among others.

As an industry leader in pressure and temperature instrumentation, Ashcroft has been helping customers find the best, most reliable solutions to their most challenging issues. We created this guide to help you find the diaphragm seal that will provide the best solution for your specific needs.

Use this as a quick reference guide for the specifications needed for diaphragm seals to work properly with gauges, switches and sensors. Also be sure to familiarize yourself with assembly limitations, low-pressure and high-pressure seal options and instruments that are not compatible for use with a seal.



Minimum Pressure Requirements for **Low-Pressure** Assemblies

Mechanical Gauges for Diaphragm Seals

To ensure proper pressure transmission for low-pressure applications, your diaphragm seal must provide sufficient displacement to drive the sensing element of the instrument(s) attached. The chart below provides a convenient reference for determining the minimum span allowable for

pressure instruments when attached to different diaphragm seal models. It is important to note that the values found in the table below are **minimum spans, not ranges**. For example, a 0-30 psi gauge and a Vac/15 psi gauge have the same overall span of 30 psi.

TABLE 1
Minimum Low-Pressure Limits for Diaphragm Seals and Isolation Rings

| Diaphragm Seal Series | | Material | 2.5" / 3.5" 1009 | 1279/1377/ 1379/2462/1009 | 1259/1209 T5500/T6500 | 1187/1188 1189 | 5503/5504 | 1125/1127 1128 |
|--|-------------|-----------------------------|------------------|---------------------------|-----------------------|----------------|-----------|----------------|
| Values represent minimum SPANS, NOT RANGES | | | | | | | | |
| 100, 200, 400, 500 | | Metallic Diaphragms | 15 psi | 30 psi | 30 psi | N/A | N/A | N/A |
| 200, 300 | | PTFE Diaphragms | 15 psi | 30 psi | 30 psi | N/A | N/A | N/A |
| 200, 300 | | Viton™ & Kalrez® Diaphragms | 15 psi | 15 psi | 15 psi | 60 IWC | 10 psid* | 15 psid* |
| 700 | | Metallic Diaphragm | 15 psi | 15 psi | 15 psi | 60 IWC** | 10 psid | 15 psid |
| 510/511 | Standard | Metallic Diaphragm | 30 psi | 30 psi | 30 psi | N/A | N/A | N/A |
| | XHP Version | Metallic Diaphragm | 100 psi | 100 psi | 100 psi | N/A | N/A | N/A |
| 330 Flush Mini-Seal | | Metallic Diaphragm | 60 psi | N/A | N/A | N/A | N/A | N/A |
| 310/315 Mini-Seal | | Metallic Diaphragm | 15 psi | N/A | N/A | N/A | N/A | N/A |
| 311/312 Midi-Seal | | Metallic Diaphragm | 15 psi | 30 psi | 30 psi | N/A | N/A | N/A |
| 320 Tri-Clamp® Seal | 1½" | Metallic Diaphragm | 15 psi | N/A | N/A | N/A | N/A | N/A |
| | 2" | Metallic Diaphragm | 15 psi | 30 psi | 30 psi | N/A | N/A | N/A |
| 80, 81, 82 Isolation Rings | 1", 1½", 2" | Elastomeric & PTFE | 15 psi*** | 15 psi*** | 15 psi*** | N/A | N/A | N/A |
| | 3"+ | Elastomeric & PTFE | 15 psi | 15 psi | 15 psi | N/A | N/A | N/A |
| DF Seals | 1" | Metallic Diaphragm | 160 psi | 160 psi | 160 psi | N/A | N/A | N/A |
| | 1½" | Metallic Diaphragm | 60 psi | 60 psi | 60 psi | N/A | N/A | N/A |
| | 2" | Metallic Diaphragm | 15 psi | 15 psi | 15 psi | N/A | N/A | N/A |
| | 3"+ | Metallic Diaphragm | 15 psi | 15 psi | 15 psi | 60 IWC** | 10 psid* | 15 psid |

Notes: * Consider static max pressure readings of instrument; consider max pressure of diaphragm

** VAC ranges N/A

*** VAC, VAC/15#, & VAC/30# ranges N/A

Low-Pressure Options

The following models are examples of diaphragm seals and gauges for high-pressure spans. See tables 1 & 2 as a reference.



740/741 & 702/703
High Displacement Seals

Larger surface area diaphragms provide high displacement of fill fluid to drive low-pressure span instruments and achieve low-pressure set points on switches.

- Continuous duty design contains system fill if top housing is removed.
- Available in wide range of metallic diaphragm and lower housing materials.
- Flushing port available.
- Enlarged welded diaphragm.



200/201 & 202/203
Flexible Seals with Viton™ or Kalrez® Diaphragms

Flexible diaphragms such as Viton™ or Kalrez® provide enough displacement to the instruments allowing for low-pressure readings on mechanical pressure gauges and low-pressure set points on switches.

- Continuous duty design contains system fill if top housing is removed.
- 316L Stainless steel top housing.
- Flushing port available.



P5500/P6500
Low-Pressure Gauge with Diaphragm Sensing Element

This low-pressure gauge offers another option for challenging low-operating pressure applications with high overload protection.

- Comes with internal diaphragm sensing element.
- Uses “dry cell” mechanism to avoid media contamination.
- Optional overload protection up to 10 times full-scale range over pressure capability (XHP option).

3-inch/4-inch DF Seal
Flush Flanged Seal

DF seals designed for 3- or 4-inch piping uses a diaphragm with a large surface area for high displacement. For smaller pipe sizes, flange adaptors can be provided to reduce the 3-inch flange down to a 1-inch, 1.5-inch or 2-inch flange connection.

- All welded construction.
- Flush design omits lower housing, reducing clogging points and cost.
- Flushing rings available if required.



Mechanical Pressure Switches for Low-Pressure Assemblies

TABLE 2
Minimum Set Points for Mechanical Pressure Switches

| | Set Point Range | Switch Series | Direct Connection | | Remote Mounting | | |
|----------|-----------------------------------|------------------|---|-------------------------------|---|-------------------------------|-----------------------|
| | | | Diaphragm Available Products/ Material | Fill Fluid (refer to table 5) | Diaphragm Available Products/ Material | Fill Fluid (refer to table 5) | Max. Capillary Length |
| Pressure | 6 psi and Above | A, B, F, G, L, P | All Seals and Isolation Rings | All Fill Fluids | All Diaphragm Seals and Isolation Rings | DJ, CT, CF, HA, MY, CC, PY | 50 Feet |
| | 30 in. H ₂ O and Above | B, G, L, P | 700 series/ All 200 Series/ Viton™ or Kalrez® | DJ, CT, CF, HA, MY, CC, PY | 700 series/ All Viton™ or Kalrez® | DJ, CT, CF, HA, CC, PY | 10 Feet |
| | 20 in. H ₂ O and Above | B, G, L, P | 200 Series/ Viton™ or Kalrez® | DJ, CT, CF, HA, MY, CC, PY | Not Recommended | | |
| | 10 in. H ₂ O and Above | B | 200 Series/ Viton™ or Kalrez® | DJ, CT, CF, HA, MY, CC, PY | Not Recommended | | |
| Vacuum | 1 in. Hg to 3 in. Hg | B | 200 Series/ Viton™ or Kalrez® | DJ, CT, CF, HA, MY, CC, PY | Not Recommended | | |
| | 3.1 in. Hg to Vac | B, G, L, P | 700 series/ All 200 Series/ Viton™ or Kalrez® | DJ, CT, CF, HA, MY, CC, PY | 700 series/ All 200 Series/ Viton™ or Kalrez® | DJ, CT, CF, HA, CC, PY | 10 Feet |



A - Series
Pressure Switch



B - Series
Pressure Switch



G - Series
Pressure Switch



L - Series
Pressure Switch



P - Series
Pressure Switch

Sensor-Based Instruments for Low-Pressure Assemblies

Digital Gauges, Transducers, Transmitters and Electronic Pressure Switches on Diaphragm Seals

While displacement issues are not a big concern, all sensor-based products require a minimum of 15 psi span. The lower the pressure the more impact temperature change can have on calibration when attached to an isolator.



FIGURE 1
Temperature Bandwidth Example



Recommended Sensor Based Instruments



E2 Transducer

- Analog output options
- 0.25% accuracy
- Zero/Span adjustment on all versions (including Haz Loc)



Industrial Digital Gauges

- 4-20 mA option
- One or two SPDT dry contact switch output options
- 0.25% accuracy
- Zero adjustment



NPI-Switch

- SPDT 10 amp relay output
- 0.5% accuracy
- Set point adjustment

Maximum Pressure Requirements for Threaded Diaphragm Seals

The table below contains the maximum pressures for the various types of seals. Instruments attached to a seal must have a range less than or equal to the seal's maximum pressure.



TABLE 3
Maximum Pressure Range for Instrument Assemblies (Threaded, Clamped and Weld-in Seals)

| Diaphragm Seal Series | Diaphragm and Lower Housing Material | Pressure Test | Maximum Instrument Range | Maximum Instrument Range With High Pressure Option (XHP) | Notes |
|--|--------------------------------------|-----------------|--------------------------|--|---------------------------------|
| 100, 200 | All-metallic construction | Standard | 2,500 psi | 5,000 psi | |
| | | Hydrotest (X1H) | 1,600 psi | 3,000 psi | |
| 101, 201 | All-metallic construction | Standard | 2,500 psi | 5,000 psi | |
| | | Hydrotest (X1H) | 1,600 psi | 3,000 psi | |
| 200, 300, 201, 301 | PTFE Diaphragm | Standard | 2,500 psi | N/A | |
| | | Hydrotest (X1H) | 1,600 psi | | |
| 100, 200, 300, 101, 201, 301 | PVC or PVDF Lower Housing | Standard | 200 psi | N/A | |
| | | Hydrotest (X1H) | 100 psi | | |
| 104, 204, 105, 205, 107, 207, 108, 208 | Metallic/PTFE Diaphragm | Standard | 2,500 psi | N/A | |
| | | Hydrotest (X1H) | 1,600 psi | | |
| | Viton™ or Kalrez® Diaphragm | Standard | 500 psi | N/A | |
| | | Hydrotest (X1H) | 300 psi | | |
| 400 | All-metallic construction | Standard | 4,400 psi | 9,000 psi | |
| | | Hydrotest (X1H) | 3,000 psi | 6,000 psi | |
| 401 | All-metallic construction | Standard | 4,400 psi | 5,000 psi | |
| | | Hydrotest (X1H) | 3,000 psi | 3,000 psi | |
| 400 with SS Rings (XSE) | All-metallic construction | Standard | 2,500 psi | 5,000 psi | |
| | | Hydrotest (X1H) | 1,600 psi | 3,000 psi | |
| 401 with SS Rings (XSE) | All-metallic construction | Standard | 2,500 psi | 5,000 psi | |
| | | Hydrotest (X1H) | 1,600 psi | 3,000 psi | |
| 500, 501 | All-metallic construction | Standard | 500 psi | N/A | |
| | | Hydrotest (X1H) | 100 psi | | |
| 510 | All-metallic construction | Standard | 1,500 psi | 10,000 psi | Mechanical Pressure Gauges Only |
| | | Hydrotest (X1H) | 1,000 psi | 6,000 psi | |
| 511 | All-metallic construction | Standard | 1,500 psi | 5,000 psi | Mechanical Pressure Gauges Only |
| | | Hydrotest (X1H) | 1,000 psi | 3,000 psi | |
| 510, 511 | All-metallic construction | Standard | 1,500 psi | 3,000 psi | Transducers/Switches |
| | | Hydrotest (X1H) | 1,000 psi | 2,000 psi | |
| 311, 312 | All-metallic construction | Standard | 1,000 psi | N/A | |
| | | Hydrotest (X1H) | 600 psi | | |
| 310, 315 | All-metallic construction | Standard | 2,500 psi | N/A | |
| | | Hydrotest (X1H) | 1,600 psi | | |
| 740, 741 | All-metallic construction | Standard | 750 psi | N/A | |
| | | Hydrotest (X1H) | 500 psi | | |
| 330 | All-metallic construction | Standard | 3,000 psi | N/A | |
| | | Hydrotest (X1H) | 2,000 psi | | |
| 320 | All-metallic construction | Standard | 1,500 psi | N/A | 1.5 Inch Connection |
| | | Hydrotest (X1H) | 1,000 psi | | |
| 320 | All-metallic construction | Standard | 1,000 psi | N/A | 2 Inch Connection |
| | | Hydrotest (X1H) | 600 psi | | |

All specifications are subject to change without notice. All sales subject to standard terms and conditions.

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Maximum Pressure Requirements for Flanged Diaphragm Seals and Isolation Rings

The table below contains the maximum pressures for the various types of seals. Instruments attached to a seal must have a range less than or equal to the seal's maximum pressure.



TABLE 4
Maximum Pressure Range for Instrument Assemblies
(Flanged Seals/Isolation Rings)

| | | Flange Class | | | | | |
|--|--|-------------------------------|---------|-----------|-----------|-----------|-----------|
| Flanged Diaphragm Seals | Pressure Test | 150 | 300 | 600 | 900 | 1500 | 2500 |
| All-Metallic Construction | Standard | 300 psi | 750 psi | 1,500 psi | 2,000 psi | 2,500 psi | 2,500 psi |
| | Hydrotest (X1H) | 200 psi | 500 psi | 1,000 psi | 1,300 psi | 1,600 psi | 1,600 psi |
| Viton™, Kalrez® Diaphragm (metallic lower housing) | Standard | 300 psi | 500 psi | 500 psi | 500 psi | 500 psi | 500 psi |
| | Hydrotest (X1H) | 200 psi | 300 psi | 300 psi | 300 psi | 300 psi | 300 psi |
| PTFE Diaphragm (metallic lower housing) | Standard | 300 psi | 750 psi | 1,500 psi | 2,000 psi | 2,500 psi | 2,500 psi |
| | Hydrotest (X1H) | 200 psi | 500 psi | 1,000 psi | 1,300 psi | 1,600 psi | 1,600 psi |
| PVC Lower Housing | Standard | 200 psi | N/A | N/A | N/A | N/A | N/A |
| | Hydrotest (X1H) | 100 psi | | | | | |
| PVDF Lower Housing | Standard | 75 psi | N/A | N/A | N/A | N/A | N/A |
| | Hydrotest (X1H) | 50 psi | | | | | |
| PTFE Lower Housing | Standard | 200 psi | N/A | N/A | N/A | N/A | N/A |
| | Hydrotest (X1H) | 100 psi | | | | | |
| 702, 703 Series | Standard | 300 psi | 750 psi | 750 psi | 750 psi | N/A | N/A |
| | Hydrotest (X1H) | 200 psi | 500 psi | 500 psi | 500 psi | | |
| 80, 81 Series Metallic End Plates | Standard | 300 psi | 600 psi | N/A | N/A | N/A | N/A |
| | Hydrotest (X1H) Calibration Certificates | Consult Factory | | | | | |
| 80, 81 Series Plastic End Plates | Standard | 600 psi | N/A | N/A | N/A | N/A | N/A |
| | Hydrotest (X1H) Calibration Certificates | Consult Factory | | | | | |
| 82 Series (threaded) | Standard | 150 psi (threaded connection) | | | | | |
| | Hydrotest (X1H) Calibration Certificates | Consult Factory | | | | | |

Note: Instrument assemblies should not exceed pressure and temperature guidelines for flange installations. Refer to ASME B16.5 for flange ratings.

High-Pressure Options for Threaded Seals

The following models are examples of diaphragm seals and gauges for high-pressure instruments with larger pressure spans. See table 4 on previous page as a reference.



200/201 Series
Modular Diaphragm Seals

This continuous duty design has the diaphragm welded to the top housing and a removable bottom housing. All metallic configurations realize pressures up to 2,500 psi (standard) or 5,000 psi (XHP option).



400/401 Series
All-Welded Diaphragm Seals

This all-welded design has the top housing welded to the diaphragm and lower housing. It can see pressures up to 4,400 psi (standard), 9,000 psi (XHP option) or 5,000 psi (401-XHP).



510/511 Series
Compact Diaphragm Seals

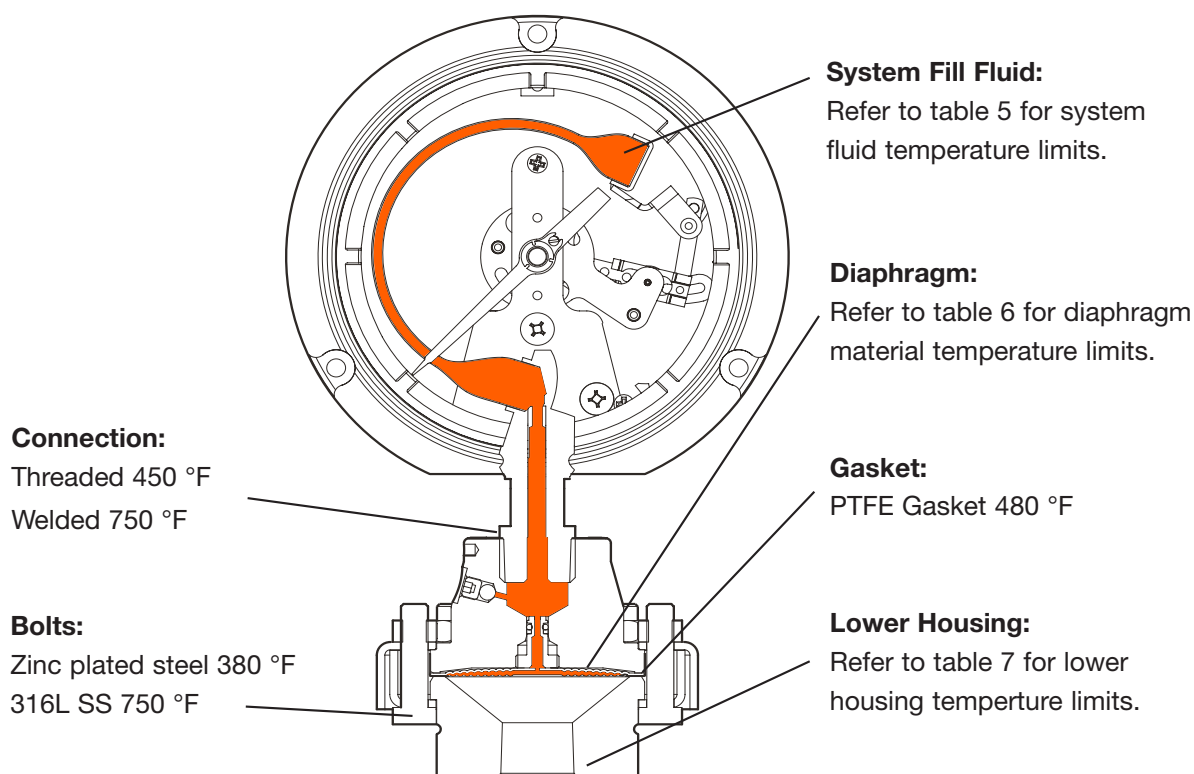
This compact diaphragm seal is all welded and can see pressures up to 1,500 psi (standard) and 10,000 psi (XHP option) or 5,000 psi (511-XHP).

All of these high-pressure models:

- Feature 316L Stainless steel top housing.
- Protect measurement instruments from corrosive media.
- Offer a wide range of wetted material options for process compatibility.
- Have flushing port(s) available for easy cleaning.

Temperature Limitations for **Diaphragm Seals**

To confirm the maximum and minimum temperature limitations on a diaphragm seal assembly, there are multiple points of consideration. To ensure safe installation, it is important to check all potential limits.



Temperature Limitations for Diaphragm Seals

TABLE 5
Systems Fill Fluid Temperature Limits

| Fill Fluid | Temperature | Viscosity (cSt at 70 °F (21 °C)) | Variation Code | Notes |
|-----------------------------|---------------------------------------|-------------------------------------|-------------------|--|
| Glycerin, Food Grade | 0 °F to 400 °F (-18 °C to 204 °C) | 1,300 | CG | Direct-mounting only. Not for use with vacuum service. Minimum span 15 psi. |
| 50 cSt Silicone | -40 °F to 500 °F (-40 °C to 260 °C) | 50 | CK | |
| 10 cSt Silicone | -40 °F to 500 °F (-40 °C to 260 °C) | 10 | DJ | |
| Halocarbon® 4.2 | -70 °F to 300 °F (-57 °C to 199 °C) | 4.2 | CF | For use with oxygen/oxidizing process media. |
| Syltherm® 800 | -40 °F to 750 °F (-40 °C to 400 °C) | 10 | HA | High temperature applications. |
| Syltherm® XLT | -150 °F to 500 °F (-100 °C to 260 °C) | 1.4 | CC | Low temperature applications. |
| Calflo® AF | -20 °F to 600 °F (-29 °C to 316 °C) | 60 | KF | High temperature, silicone-free. |
| Mineral Oil | 10 °F to 400 °F (-12 °C to 204 °C) | 75 | MY | |
| Neobee® M-20, Food Grade | 5 °F to 400° F (-15 °C to 204 °C) | 9.5 | NM | |
| Silicone, Food Grade | -40 °F to 500 °F (-40 °C to 260 °C) | 350 | CZ | Minimum span 60 in. H ₂ O. |
| Distilled Water | 40 °F to 185 °F (4 °C to 85 °C) | 0.9 | FJ | |
| 50/50 Glycerin/Water | 15 °F to 200 °F (-9 °C to 93 °C) | 30 | GH | |
| Propylene Glycol | -50 °F to 325 °F (-46 °C to 163 °C) | 54 | CV | |
| Ethylene Glycol | 20 °F to 325 °F (-7 °C to 163 °C) | 14 | FK | |
| 50/50 Ethylene Glycol/Water | -25 °F to 190 °F (-32 °C to 88 °C) | 2.9 | CT | |
| 80/20 Glycerin/Water | 15 °F to 225 °F (-9 °C to 107 °C) | 270 | GR | |
| 95/5 Water/Propylene Glycol | 40 °F to 185 °F (4 °C to 85 °C) | 1.0 | PY | |

TABLE 6
Diaphragm Material Temperature Limits

| Non-Metallic Diaphragm Seal/ Isolation Ring Temperature Limits | |
|---|--------|
| PTFE | 400 °F |
| Viton™ | 300 °F |
| Kalrez® | 200 °F |
| Buna N | 150 °F |
| EPDM | 175 °F |
| Natural Rubber | 120 °F |

TABLE 7
Diaphragm Seal Lower Housing Temperature Limits

| Non-Metallic Lower Housing Materials | |
|--------------------------------------|--|
| PVDF/PVC (threaded) | 200 psi - 74 °F 125 psi - 125 °F 80 psi - 150 °F |
| PVDF | 180 °F |
| PVC | 100 °F |
| PTFE | 150 °F |

Assemblies for Extreme Temperatures

Based on the limitations described on previous page 11 below are the best recommendations for extreme temperature applications (high and low):

Use instruments meant for process applications (e.g. solid front designs, temperature resistant materials).



451279 Solid Front Process Gauge
OR
451209 Solid Front Process Gauge with Stainless Steel Case



Fill assemblies with Syltherm®.

XHA for high temperatures
OR
XCC for low temperatures

Use temperature dissipators 2198 or 1115 (if using capillary include mounting brackets and/or surface mounting cases).

1115 Capillary (XTM recommended)
OR

2198 MicroTube™ Siphon

Weld all connections to avoid thread sealant.

Welded Connections

Use all welded diaphragm seals that do not have gaskets which may limit temperature rating (510, 400/402 Series, DF Series).

DF Series or 402 Series (flanged)
OR

510 Series or 400 Series Diaphragm Seals (threaded)

Avoid using flush ports.



Diaphragm Seal Attachment Exceptions for **Assemblies**

Please note the following limitations on assemblies:

Pressure ranges of all instruments must match.

Porosity of snubbers must be designed for oils.

Weight and height restrictions should be considered.

Assemblies with capillaries are recommended with 10 cTs silicone (XDJ) for general applications or Halocarbon® (XCF) for applications that require an inert fill.

Glycerin cannot be used on assemblies with 1115 Capillary or 1112 Pressure Snubber.

Glycerin cannot be used for vacuum service or pressure spans less than 15 psi.

All instruments or accessories that are connected directly to the isolator must be ordered with a ¼ or ½ Male or Female NPT connection. Exceptions may apply for custom assemblies or Safe Quick Release™ (SQR™) attachments.

Titanium components can only be welded to titanium (example diaphragms to top housings).

Monel® components can only be welded to Monel® (example top housings to sockets).

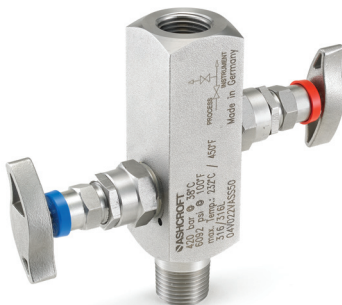
Case fills on pressure gauges must be Halocarbon® when diaphragm seal assembly system fill is also Halocarbon®.





Diaphragm Seal Attachment Exceptions for **Accessories**

The following accessories CAN NOT be installed above a diaphragm seal:



**Instrument Valves
With Bleed Ports**

Valves placed above a diaphragm seal are typically there to regulate media flow, commonly known as throttling. Valves designed for throttling are widely accepted above diaphragm seals. Using valves above diaphragm seals that are installed for isolation purposes are not practical and can mislead operators to isolate with the intention of removing the instrument. A valve with a bleed port presents an opportunity to bleed out the system fill rendering the assembly disabled.



**Instrument Valves With
Equalizer Valves**

Instrument valves used with differential pressure instruments typically have an equalizer valve that connects both ports of a differential pressure gauge. This could impact calibration by opening each filled side to the other.



Siphons

Steam siphons, coil siphons, pig tail siphons or finned siphons protect instrumentation by the condensate water barrier that keeps the steam away from the instrument. They are not designed to be installed above a diaphragm seal.

Instruments **Not Used** with Diaphragm Seals

Most Ashcroft® instruments are available with diaphragm seals. However, the following instruments are not designed for a separate attachment:



Crimped Stainless Steel Cases and Sanitary Products

- All 1008A Gauges
- All 8008A Gauges
- All 1032, 1036 Gauges*



Low-Pressure Gauges

- 1490 & 1495
- N5500, P5500/P6500*



Specialty Gauges

- HPX, HPT, HPS
- 1084
- SC



Differential Gauges

- 5509, 1130, 1131,
1132, 1133, 1134



Low-Pressure Transducers

- GXLdp, CXLdp, DXLdp, RXLdp,
XLdp, IXLdp, GC30

All Commercial Gauges

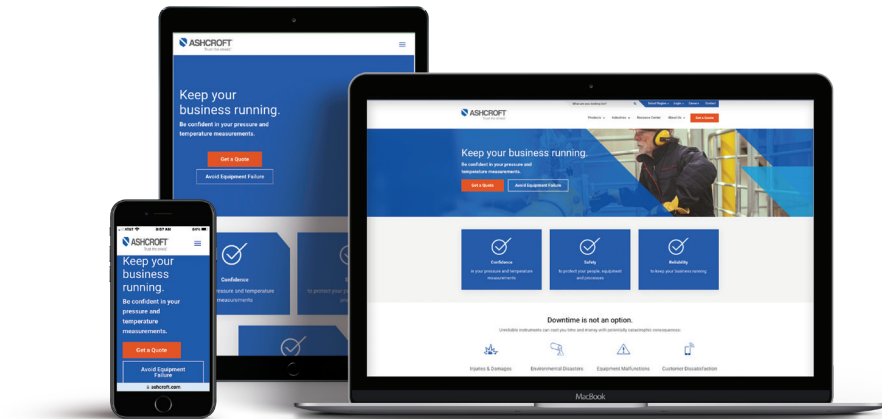
All Weksler Gauges

Consult Factory For The Following Products:

- 1290, 1008S, 8008S, 8009S
- GC52, K8, G2, T2, GC55, S1

* These models have a diaphragm sensing element built into the gauge.

Learn more about Ashcroft instrumentation
by visiting our website:



[ashcroft.com](https://www.ashcroft.com)

Let us help you find the right
instrumentation for your needs.

Using the information in this guide, you can find the best diaphragm seal or isolation ring that will protect your pressure and temperature instruments from harsh conditions. Plus, you learned about assembly limitations and options for both low pressure and high-pressure seal applications. However, we understand that every situation is unique and you may have more questions. If you would like to discuss your unique requirements with one of our experts, please contact us directly.