Selecting the Proper Diaphragm Seal

Diaphragm seals are used in many industries to isolate pressure measurement devices from the process media for different reasons. It could be to protect the sensing elements of a pressure gauge from a corrosive fluid, or to prevent particles from a pulp slurry from clogging a bourdon tube in a pressure gauge. Or, maybe the fluid temperature is too hot to come into direct contact with a transmitter. Alternatively, perhaps the process fluid needs to be protected from the gauge, especially crucial in the food and beverage industry with CIP/SIP requirements.

Because there are so many applications for diaphragm seals, many variables exist that must be considered. These can include process media type, pressure ranges, materials, size, fill fluids, and instrument connection size, to name a few. To make things more complicated, some of these options are not compatible with each other. These variables make choosing the correct diaphragm seal difficult!

Our Solution

AMETEK U.S. Gauge has an easy-to-use solution that makes selecting the correct diaphragm seal a task that takes minutes rather than hours. Our webstore includes a system of dynamically updating menus that only show you the options available with each selection you make. The result is a complete part number and price for the choices you have selected.

Once a seal is selected, you can then decide if you want us to mount a pressure gauge on the seal for you. Similar to the dynamically updated menus, our website will only show you pressure gauges that are compatible with the particular seal you have designed. Choose the desired gauge, press order, and wait for the mounted gauge/seal combination to arrive.



The system also works in reverse. If you would like to choose the gauge first, we will then show you the diaphragm seal options that are compatible with your selected gauge.

Visit our webstore at webshop.ametekusg.com to customize your seal and gauge combination today.

For really challenging applications, please contact our application specialists by either email (usg.sales@ametek.com) or phone (215-674-1234).