

## Diaphragm Seals

DS/PI-18B

### ASHCROFT DIAPHRAGM SEALS ATTACHED TO TYPES 1187, 1188 AND 1189 BELLOWS GAUGES

Applications requiring diaphragm seals with bellows actuated gauges (generally ranges less than 15 psi) require the use of a Viton or Kalrez diaphragm. Pressure instruments having such a range (Types 1187, 1188 and 1189 bellow gauges) normally have a high volumetric displacement requiring a diaphragm with low spring rate and high displacement capability.

The combination of low pressure and high displacement volume results in a very slow response time if a flexible line assembly or a capillary line is used between the instrument and the seal. We, therefore, have limited the sale of a diaphragm seal and Types 1187, 1188 and 1189 gauges to only direct connected assemblies

There may be applications having low pressure ranges and **low** displacement volumes where a flexible line assembly is required and where it might be suitable. If you encounter such a requirement, give us all the particulars (instrument make, type number, range and volumetric displacement) so we can review and make a recommendation.

We will not accept orders for glycerin fill on low pressure bellows gauges direct mounted on diaphragm seals due to the high viscosity of glycerin. We recommend using only silicone fill on this application and will enter any orders received for silicone fill.