



To ensure a safe working environment, care must be taken when selecting a pressure gauge or thermometer. The following information can assist with the selection.

<b>Casing size</b>	To suit the availability of space or reading from a distance. Choose from 50, 63, 80, 100, 120, 150 & 250 mm dia.
<b>Casing type</b>	Choose from bottom or back entry to suit the application. Case material: Stainless steel 304.
<b>Mounting flange</b>	To suit the case size and type for mounting in a panel or against a surface. Choose from front or rear flange. For panel mounting ( front flange, rear entry ) choose from 3 hole flange or slim line front ring with u- bracket.
<b>Wetted parts</b>	These parts must be compatible with the process media. Choose from Cu-alloy ( brass ) or stainless steel 316. for media that will corrode the wetted parts or obstruct the pressure port, a diaphragm type chemical seal should be selected.
<b>Fitting size and positions</b>	To facilitate correct positioning. Choose from 1/8", 1/4", 3/8", or 1/2" BSP or NPT at the bottom or rear of the case.
<b>Working pressure</b>	Although pressure gauges will tolerate full scale pressure for short periods, in general the working pressure should not exceed 70% of the full scale value of the pressure gauge. For thermometers, media pressure should not exceed 2500 kPa without the use of a suitable thermowell.
<b>Media temperatures</b>	For pressure gauges, media temperature should not exceed 70°C. If so, choose from a syphon tube, cooling element, capillary assembly or diaphragm seal to isolate the gauge from media. For thermometers, select the temperature range double that of the media operating temperature.
<b>Working conditions</b>	Adverse working conditions such as vibration, pulsation and shock loads, require the use of a dampening device. Choose from glycerine/ silicone filling, a snubbing device or capillary assembly to remove the instrument from the cause.
<b>Fitting types</b>	<ol style="list-style-type: none"> <li>1) BSP ( parallel ) thread seals by means of the seat at the end of the thread. It is advisable to use copper or another suitable sealing washer to ensure a good seal. ( see diagram 1 )</li> <li>2) BSPT / NPT ( taper ) thread seals by means of the mating of the thread. PTFE ( teflon ) tape or any other suitable jointing material will ensure a good seal. ( see diagram 2 )</li> </ol>
<b>Instalation</b>	<p>Always secure the instrument by means of a suitable spanner on the exposed part of the thread fitting.</p> <p><b>Twisting the instrument by hand on the case can damage the internals of the instrument.</b> ( see diagram 3 )</p> <p>For gauges with flanges to facilitate panel or surface mounting, please support gauge fitting with a suitable size wrench to counter the force of tightening the process fitting, this will prevent damaging the gauge internals.</p>

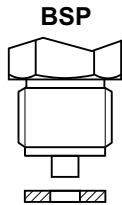


Diagram 1



Diagram 2

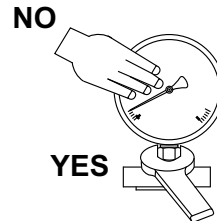


Diagram 3