

Knowledge base

Pressure gauge - flow restrictors

✉ sales@brannan.co.uk

☎ +44 (0)1946 816600

🌐 brannan.co.uk

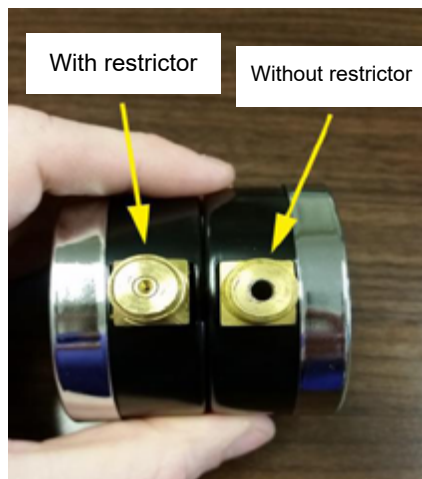
Flow restrictors

A pressure gauge flow restrictor is typically a small orifice that is either screwed or pressed into the gauge's socket. The orifice restricts the fluid flow between the pressure source and the gauge's pressure element - the bourdon tube - and it is used to reduce the effects of pressure fluctuations.

The use of a restrictor will increase the useful life of a pressure gauge by shielding the gauge's pressure element from the constant fluctuations of a pulsating pressure source. As the pressure fluctuates, spikes enter the sensing element through a small orifice and the sensing element is exposed to a more constant flow of pressure rather than extreme fluctuations.

When severe pressure fluctuations are encountered the use of an external pressure snubber is recommended, please see the "Pressure gauge – snubbers" information sheet. In very extreme cases when the pressure spikes greatly exceed the pressure range of the system being used, the use of an over pressure device is suggested.

Flow restrictor



To find out more about our pressure gauges or to order any please contact sales@brannan.co.uk.

