

APPLICATION GUIDE

Snubbers on pulsating lines

How a gauge snubber steadies the pointer on pump discharge and other pulsing lines, and where to fit it.

Instruments covered

Gauge snubber, Series P600, Series P200, Pressure transmitter

The problem

Reciprocating pumps, compressors and fast acting valves send sharp pressure pulses down the line. On an unprotected gauge the pointer flickers, the reading is hard to take, and the movement wears quickly.

What a snubber does

A gauge snubber fits between the process connection and the gauge. A small restriction inside it slows the flow of media into the gauge, so each pulse reaches the movement smoothed out. The gauge still follows real changes in pressure, a little more slowly.

Fitting a snubber

1. Isolate and vent the line before you remove a gauge.
2. Fit the snubber to the process connection, then fit the gauge to the snubber. The Gauge snubber has a 1/4 inch NPT connection.
3. Use a suitable thread sealant on both threads and tighten with a wrench on the hex, never by the gauge case.
4. Bring the line back up slowly and check the reading against a known pressure.

Combine with fill

For the steadiest reading on a pulsing line, pair a snubber with a filled gauge such as Series P600, the heavy duty model for lines with pulsation, or Series P200. For a reading in your control system, a snubber also protects the Pressure transmitter.

Maintenance

On dirty media the restriction can block over time. If the reading stops following the process, isolate the line, remove the snubber and clean or replace it.