



BPRV BACK PRESSURE REGULATOR/RELIEF VALVE

Maintain Constant Flow to Your Analyzers

Features

- Designed specifically for power plant sample flow rates
- Most effective way to assure constant flow through online analyzers
- Less prone to plugging and sticking than a pressure reducing valve
- Will not wire draw or erode in normal service
- Fail safe relief valve

Description

When installed in a system as shown below, the Back Pressure Regulator/Relief Valve (BPRV) will hold a constant pressure of approximately 20 psig (1.4 barg) at the analyzer inlet. This pressure is maintained independent of source pressure fluctuations or sample flow changes. If inlet pressure rises, the regulator opens to let excess flow pass through to drain. This flow is usually used as the grab sample. This unit also acts as a relief valve in the event of an over-pressure condition.

Constant Flow

With the circuit below, the severe service (pressure reduction) is handled by the VREL[®] or needle valve. The BPRV only has to control pressure between 20 psig (1.4 barg) and atmosphere. This allows very precise pressure control, minimizes plugging and ensures high reliability.



