



Back Pressure Regulators

Oil and Gas





Are your Safety Relief Valves Unreliable ?

Choose a Tescom Back Pressure Regulator!

Most direct spring operated safety relief valves have a high re-seating pressure which is inconsistent and unreliable. This is the primary difference between a safety relief valve and a Tescom back pressure regulator. A safety relief valve is designed to protect downstream personnel and equipment should over-pressurisation take place. As such, when it's set pressure is overcome, it will blow wide open immediately and exhaust all of the pressure. It needs to be able to handle the full flow of the system in order to rapidly exhaust to protect downstream. Tescom's back pressure regulators are designed for precision upstream pressure control. When the regulator's set-point is overcome, it will "crack" open (not blow wide open) and try to exhaust just the excess pressure above the set-point. When it cracks open, it uses it's sensing element (relief valve's do not have sensing elements) to try and reseat very close to its set pressure. Most of Tescom's back pressure regulators have "crack to reseat" pressures less than 2% of the set-point.

The 26-1700, 54-2100, 54-2300 and 54-2700 series back pressure regulators are used extensively in the hydraulic and offshore oil & gas industries.

Below is a typical application where the 54-2300 series BPR was used to maintain the discharge pressure of an offshore pump:

