Pressure Reducing Valve PRV50065

PRV50065 is a self-acting pressure reducing valve which offers an accurate regulating control while displaying an easy installation and maintenance. These are used to maintain a certain pressure downstream without requiring the use of any pneumatic or electrical control elements.

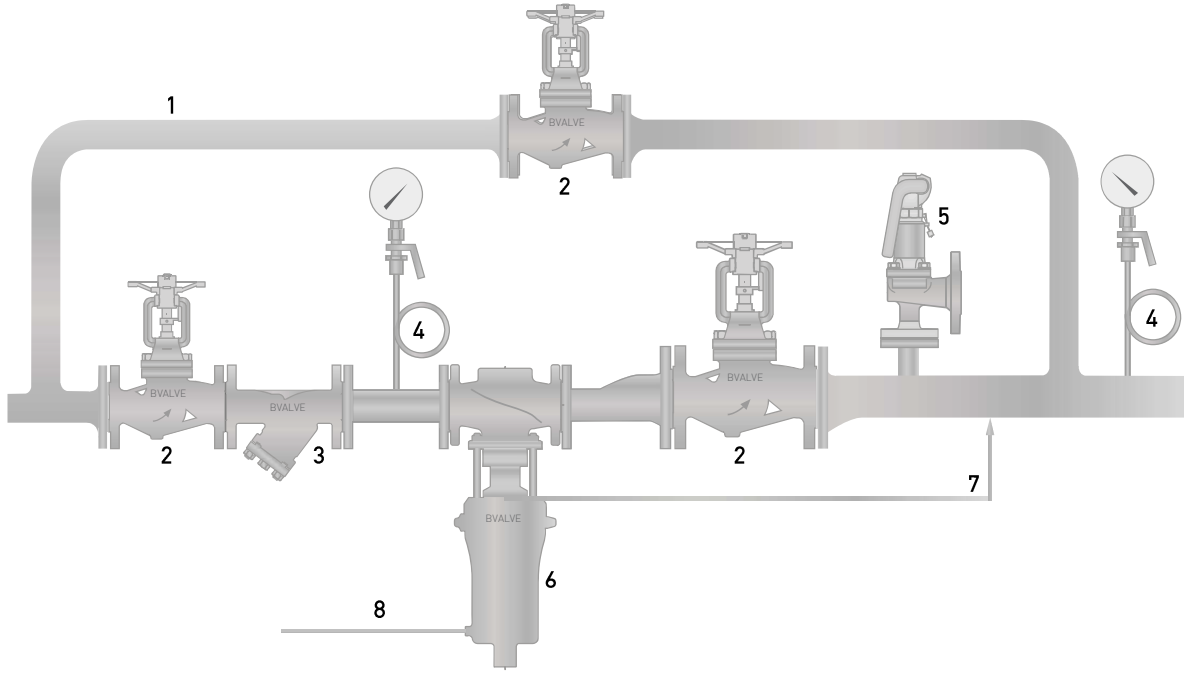
PRV50065 is a diaphragm operated, spring loaded and proportionally balanced valve for high flow rate applications. Moreover, valve body is made out of casted steel, internal parts are manufactured in stainless steel and valve cone is fitted with a metallic seal.

Outlet pressure to be controlled (set pressure) is balanced through its control unit due to the force applied by the valve's spring. Therefore, as outlet pressure overpasses set pressure, valve's cone approaches the seat and hence medium's volume is reduced. In the same way, once outlet pressure drops, outlet gap increases. Furthermore, rotating the adjusting screw clockwise increases outlet pressure.

PRV50065 requires a sense line to be installed on-site.

However, these are not shut-off elements to ensure a perfect tightness closure. In accordance with DIN EN 60534-4 and / or ANSI FCI 70-2 they are allowed to feature a class IV leakage rate (metal sealing cone – 0,01% KVS value).

When installing, it is advised to do so in a horizontal strain, with spring cap pointing downwards and making sure flow direction meets arrow conveniently described in body. Still, valve may be installed both upwards and downwards when working with gases.



1 Bypass line for Maintenance
2 BVALVE bellows sealed valve
3 BVALVE strainer
4 Pressure Gauge
5 Safety Valves
6 BVALVE Pressure Reducer
7 Sense Line
8 Leakage Line

Installation in a horizontal line without strain with the spring cap pointing vertically downwards in such a way that the arrow on the body points in the direction of flow. For gases, the installation can take place with the spring cap pointing either downwards or upwards. For use with liquids the valve must be installed with the spring cap pointing downwards.