

Benefits – Pressure reducing valve RP 814

The diagram shows a cross-section of a pressure-reducing valve. It features a main valve body with a diaphragm and a pilot valve assembly on top. The pilot valve has two control ports, each with a throttle. The main valve has a large inlet on the left and a large outlet on the right. The internal components, including the diaphragm and valve stem, are shown in detail. The diagram is color-coded to show different pressure zones: red for inlet pressure, blue for outlet pressure, and purple for control pressure. A legend at the bottom right explains these colors. Numbered callouts (1-6) point to specific features of the valve.

1 Precise control through pilot valve
Very high control accuracy without auxiliary energy in spite of large flow rates

2 Opening and closing velocities can be set via throttles
Optimal control behaviour

3 Replaceable pilot control
Flexible applications

4 Compact design
Minimum space required

5 Up to PN 100
Usable for high pressures

6 Particular Feature
Valve with more than one control task / pilot

Optionen
Available in special materials
Also suitable for extreme requirements **a**

Inlet pressure (Red)
Outlet pressure (Blue)
Control pressure (Purple)

Vorteile – Druckminderventil RP 814

1 Präzise Regelung durch Pilotventil
Höchste Regelgenauigkeit ohne Hilfsenergie trotz großem Durchfluss

2 Über Drosseln einstellbare Schließ- und Öffnungsgeschwindigkeit
Optimales Regelverhalten

3 Austauschbare Pilotsteuerung
Flexible Einsatzmöglichkeiten

4 Kompakte Bauform
Geringer Platzbedarf

5 Bis PN 100
Für hohe Drücke einsetzbar

Besonderheit
Ventile mit mehr als einer Regelaufgabe / Piloten

Optionen
In Sonderwerkstoffen erhältlich
Auch für extreme Anforderungen geeignet **a**

Vordruck
Hinterdruck
Steuerdruck