

A Quick Look at Swagelok Pressure Regulators



Swagelok Pressure Regulators

Choose from a variety of pressure-reducing, back-pressure and vaporizing regulators to manage upstream and downstream system pressures in low-, medium-, and high-flow applications. Models feature a piston-type or diaphragm-type design and fine-pitch stem threads for precise control.¹

Pressure-Reducing Regulators:

- Provide accurate, consistent delivery pressures to processes and equipment
- Reduce the likelihood of process variability
- Help protect sensitive equipment

Piston-Type, Pressure-Reducing Models



KCP Series

- Compact, spring-loaded design features low internal volume



KHP Series

- High-pressure regulator controls supply pressures up to 10 000 psig (689 bar); self-venting capability enables downstream pressure reduction in a closed loop system



KHR Series

- Hydraulic pressure regulator operates in systems up to 10 000 psig (689 bar)



KPF Series

- High flow (C_v 1.0) provides minimum droop across the flow range; the balanced poppet design provides high accuracy while maintaining outlet pressures up to 4000 psig (275 bar)



KPP Series

- Compact, lightweight design is used in liquid or gas applications with up to 6000 psig (413 bar) inlet pressures; provides ideal pressure control solution in high-density OEM equipment

Diaphragm-Type, Pressure-Reducing Models



KPR Series

- Compact design features a convoluted diaphragm, providing a metal-to-metal seal to help ensure maximum accuracy, stability, and sensitivity



KCM Series

- Automatic gas cylinder changeover manifold helps reduce costs associated with system downtime and maintenance expense of continuously monitoring the supply of critical gases



KCY Series

- Two-stage regulator is designed for applications that require constant outlet pressure when inlet pressures vary, such as cylinder gases



KHF Series

- High-flow (C_v 1.0) regulator provides minimum droop; the balanced poppet design provides pressure regulation accuracy of 0.2 %



KLF Series

- Low-flow regulator with a large convoluted diaphragm provides high sensitivity control with minimum droop

¹ Reference the appropriate Swagelok pressure-regulator catalog(s) for regulator features, pressure-temperature ratings, testing, cleaning, packaging, materials of construction, and other necessary product information.

Vaporizing Pressure Regulators

- Vaporize liquid samples or preheat gas samples
- Steam-heated model features low internal volume
- Electrically heated model is ATEX (CENELEC) and CSA certified

Two models are available:

KEV Series



- Electrically heated vaporizing pressure-reducing regulator
- ATEX (CENELEC) and CSA certified for critical/ hazardous environments
- Inlet pressures up to 3600 psig (248 bar)
- Direct contact heater design provides maximum thermal efficiency
- Removable heater simplifies cleaning
- Choice of 40, 50, 100, 150, and 200 watt heaters

KSV Series



- Steam-heated, vaporizing, pressure-reducing regulator
- Low internal volume
- Inlet pressures up to 3600 psig (248 bar); outlet pressures up to 500 psig (34.4 bar)

Back-Pressure Regulators

- Provide consistent back-pressure control
- Are available in high back-pressure and high-flow models

Piston-Type, Back-Pressure Regulators



KCB Series

- Compact design offers high sensitivity and set point repeatability



KHB Series

- High back-pressure regulator provides back-pressure control up to 10 000 psig (689 bar)



KPB Series

- Compact, lightweight regulator provides back-pressure control up to 4000 psig (275 bar)

Diaphragm-Type, Back-Pressure Regulators



KBP Series

- High-sensitivity back-pressure regulator controls upstream pressures up to 500 psig (34.4 bar)



KFB Series

- High-sensitivity back-pressure regulator maintains controlled pressures in a high-flow system (C_v up to 1.0)



For more information, visit www.swagelok.com or contact your local, independent Swagelok Sales & Service Center.

Swagelok – TM Swagelok Company. ©2004 Swagelok Company.

