



# Pressure Regulators: KPR Series

Swagelok®

Reliable pressure control is essential to the safe operation of your fluid systems.

Swagelok Regulators® are a dynamic range of components that have the right combination of products to fit any situation. Our experts can help you select and design a configuration that will maintain pressure and minimise droop over a wide range of pressures and flows.

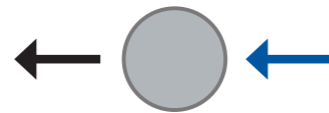


TYPES OF SWAGelok REGULATORS

- Pressure-reducing and back-pressure models
- Vaporising models
- Automatic gas changeover regulators
- Spring-, dome-, and air-loaded models (RHPS series)

KPR SERIES REGULATORS NOW AVAILABLE IN STOCK

The selection of KPR regulators that we now keep in stock has an A-port configuration, allowing for mounting in left or right directions with no gauge port. If pressure indication is required at the inlet and outlet, we offer a range of fittings and pressure gauges. In addition to this, Swagelok offers comprehensive Custom Solutions services to design and assemble configurations to any given specification with unique part numbers. We have a wide variety of additional fittings, valves, cylinder connections and flexible hoses from stock, to allow multiple solutions for your process and application needs.



The KPR series is made up of compact regulators with excellent accuracy, sensitivity and set point pressure stability. These diaphragm-sensing, pressure-reducing regulators have many features that make them a flexible, general purpose product, designed at a very high quality.

These spring-loaded regulators are available in numerous models to fulfill different needs. They are designed for use in applications requiring constant outlet pressure in gas or liquid applications with minimum droop in low-flow and low-pressure conditions.

They have a maximum inlet pressure of 3600 PSI (249 bar) at 80 degrees Celsius with PCTFE, or 6000 PSI (413 bar) at 200 degrees Celsius with Peek seats.

The Swagelok KPR regulators are the perfect all-rounder and suitable for most applications.



KPR KEY FEATURES

- Convoluted, non-perforated diaphragm
- Metal-to-metal diaphragm seal
- Low internal volume
- Two-piece cap design provides linear load on the diaphragm seal
- High-flow, dual-gauze type filter positively retained in inlet port

BENEFITS OF PRESSURE REDUCING REGULATORS

- Protect sensitive equipment from costly damage
- Highly compatible, making it a flexible product
- The all-metal diaphragm acts as the sensing mechanism between the inlet pressure and the range spring
- The convoluted, non-perforated design ensures greater sensitivity and enhances service life

TYPES OF KPR REGULATORS

- Back-pressure and pressure-reducing models
- Vaporising models

SELECTION OF KPR SERIES REGULATORS IN STOCK

REGULATORS (Part number)	BODY MATL	CONTROL RANGE	INLET PRESSURE	PORT CONFIG	PORT TYPE	SEAT MATL	CV	SENSE/ VENT	HNDL MOUNT
KPR1ERA412A20000	316	0 - 50 (0 - 3.4 bar)	248 bar (3600 psig)	A	1/4" FNPT	PCTFE	0.06	X750 NO VENT	KNOB
KPR1FRA412A20000	316	0 - 100 (0 - 6.8 bar)	248 bar (3600 psig)	A	1/4" FNPT	PCTFE	0.06	X750 NO VENT	KNOB
KPR1GRA412A20000	316	0 - 250 (0 - 17.2 bar)	248 bar (3600 psig)	A	1/4" FNPT	PCTFE	0.06	X750 NO VENT	KNOB
KPR1JRA412A20000	316	0 - 500 (0 - 34.4 bar)	248 bar (3600 psig)	A	1/4" FNPT	PCTFE	0.06	X750 NO VENT	KNOB

TECHNICAL DATA

Maximum Inlet Pressure	Pressure Control Ranges	Maximum Operating Temperature
<ul style="list-style-type: none"> <li>• 3600 psig (248 bar)</li> <li>• 6000 psig (413 bar) with PEEK seat</li> </ul>	<ul style="list-style-type: none"> <li>• 0 to 10 psig (0.68 bar) through</li> <li>• 0 to 500 psig (34.4 bar)</li> </ul>	<ul style="list-style-type: none"> <li>• 176°F (80°C) with PCTFE seat</li> <li>• 392°F (200°C) with PEEK seat</li> <li>• 212°F (100°C) with PEEK seat and maximum inlet pressure greater than 3600 psig (248 bar)</li> </ul>

## ADDITIONAL PRODUCTS



Tube Fittings



Measurement Devices  
(Gauges, transducers, flowmeters)



Valves



Cylinder  
Connections



Hoses



Custom Solutions



Filters

For more information on regulators visit: [www.swagelok.com/product/Regulators](http://www.swagelok.com/product/Regulators)



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