

Swagelok Regulator Assemblies

**AVAILABLE
EX-STOCK**

Regulator assemblies from Swagelok Scotland, Teesside & Ireland provide the most frequently requested configurations for gas bottle or inline service utilising K-Series pressure reducing regulators.



Single Stage Gas Bottle Regulator Assembly
(GBS)



Inline Regulator Assembly
(INL)



Dual Stage Gas Bottle Regulator Assembly
(GBD)

KPR Regulator 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

KCY Regulator Features

- Convoluted, non-perforated diaphragm
- Metal-to-metal diaphragm seal
- Excellent set-point stability
- Minimise supply-pressure effect
- High-flow, dual-gauze type filter positively retained in inlet port

Technical Data

Pressure Control Ranges

- Single stage gas bottle: 0-250 psig (0-17.2 bar) and 0-500 psig (0-34.5 bar)
- Inline: 0-50 psig (0-3.45 bar), 0-100 psig (0-6.9 bar) and 0-250 psig (0-17.2 bar)
- Dual stage gas bottle: 0-25 psig (0-1.7 bar), 0-100 psig (0-6.9 bar), 0-250 psig (0-17.2 bar) and 0-500 psig (0-34.5 bar)

Process Connection Ports

- 1/4 in. female NPT inlet or outlet
- Metric / Imperial Swagelok inlet or outlet
- BS 341 bottle connections
- 1/4 in. Swagelok needle valve outlet

Pressure Gauges

- Swagelok B model pressure gauges may be selected to measure inlet and/or outlet pressure.
- Maximum gauge pressures are appropriate for the maximum inlet pressure and/or control pressure selected.

Flow Coefficient (C_v)

- Single stage gas bottle: 0.06
- Inline: 0.06
- Dual stage gas bottle: 0.06

Maximum Inlet Pressure

- Single stage gas bottle: 4351 psig (300 bar)
- Inline: 1000 psig (69 bar)
- Dual stage gas bottle: 4351 psig (300 bar)

Maximum Operating Temperature

- 80°C (176°F)



Swagelok Regulator Assemblies

Ordering Information

Build a Swagelok regulator assembly ordering number by combining the designators as shown below.

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SCOTS - GB250 - 4NP - G G R - 1S4

Assembly Location

Swagelok Scotland, Teesside & Ireland

Regulator Assembly Type

Choose a designator from the table below

Inlet Connection

All Models

4NP = 1/4 in. female NPT
400 = 1/4 in. Swagelok
600 = 3/8 in. Swagelok
810 = 1/2 in. Swagelok
6MO = 6mm Swagelok
10M = 10mm Swagelok
12M = 12mm Swagelok

Inlet Gauge

Gas Bottle
G = Inlet Gauge
X = No Gauge
*Inline**
X = N/A

Gas Bottle
Regulator
ONLY

BS3 = BS341 # 3 Inert Gases
BS4 = BS341 # 4 Flammable Gases
BS8 = BS341 # 8 CO₂ Gas
DN6 = DIN # 6 Inert Gases
B30 = NEVOC BS341 # 30 Inert Gases
B31 = NEVOC BS341 # 31 Air
B32 = NEVOC BS341 # 32 Oxidising Gases
B38 = NEVOC BS341 # 38 Flammable Gases

Outlet Connection

4NP = 1/4 in. female NPT
400 = 1/4 in. Swagelok
600 = 3/8 in. Swagelok
810 = 1/2 in. Swagelok
6MO = 6mm Swagelok
10M = 10mm Swagelok
12M = 12mm Swagelok
1S4 = 1/4 in. Swagelok needle valve

Relief Valve

R = Relief Valve**
X = No Relief
** only available for single stage gas bottle regulators

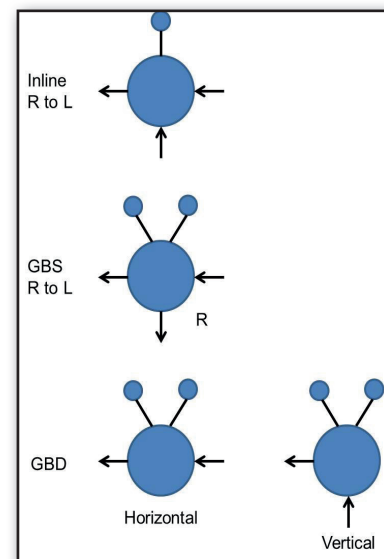
Outlet Gauge

Gas Bottle
G = Outlet Gauge
X = No Gauge
*Inline. Left-to-Right**
G = Outlet Gauge
P = 1/4 in. Plug
*Inline. Right-to-Left**
X = N/A

*Select a flow direction from the diagram below

Regulator Assembly Type

Designator	Control Range		Maximum Inlet Pressure		Flow Coefficient (Cv)
	psig	bar	psig	bar	
Single Stage Gas Bottle Regulator					
GBS250	250	17.2	4351	300	0.06
GBS500	500	34.5	4351	300	0.06
Inline Regulator					
INL050	50	3.45	500	34.5	0.06
INL100	100	6.9	1000	69	0.06
INL250	250	17.2	500	34.5	0.06
Dual Stage Gas Bottle Regulator					
GBD025	25	1.7	4351	300	0.06
GBD100	100	6.9	4351	300	0.06
GBD250	250	17.2	4351	300	0.06
GBD500	500	34.5	4351	300	0.06



Additional Options

Swagelok Regulator Assemblies may be ordered with additional options and configurations. Contact Swagelok Scotland, Teesside & Ireland for further information.

