

Pressure reducing valves, article 235-RG

Diameter G 1/4" up to G 2"

Pressure reducers find their application in piping systems where despite different pressures or pressure fluctuations at the input side a constant pressure on the output side is to be maintained.

The valves, which are fully relieved and therefore compensate for pressure fluctuations, are available with and without secondary venting as a diaphragm and piston variant.

The pressure adjustment takes place without tools via the ergonomically shaped hand wheel.

The extremely small pressure drop in the operating range means a hardly perceptible loss of performance.

The flow direction is marked by the arrow on the body.

On both sides shutter screw G 1/4 " for manometer-connection.

Connections

both sides female thread according to DIN ISO 228 (BSP)



G 1/2"



G 2"



Compliant with pressure equipment directive 97/23/EG



ambient temperature - 5° C ... + 60° C



medium temperature -10° C ... +120° C

Valve design:

m	with diaphragm	High-quality heat-resistant elastomere, fabric reinforced diaphragm. Adjustment by means of non-rising spindle. Balanced single seat valve, pressure gauge connection G1/4" on both sides of body. Please take note of the outlet pressure range.
k	with piston	Brass piston with seal and support ring. Adjustment by means of non-rising spindle. Balanced single seat valve, pressure gauge connection G1/4" on both sides of body. Please take note of the outlet pressure ranges.

Medium:

GS	gaseous with secondary venting	Compressed air and gases. Non-neutral, poisonous gases only in combination with ducted exhaust.
GFO	gaseous and liquid without secondary venting	for water and non-sticking liquids, compressed air and gases

Outlet pressure ranges:

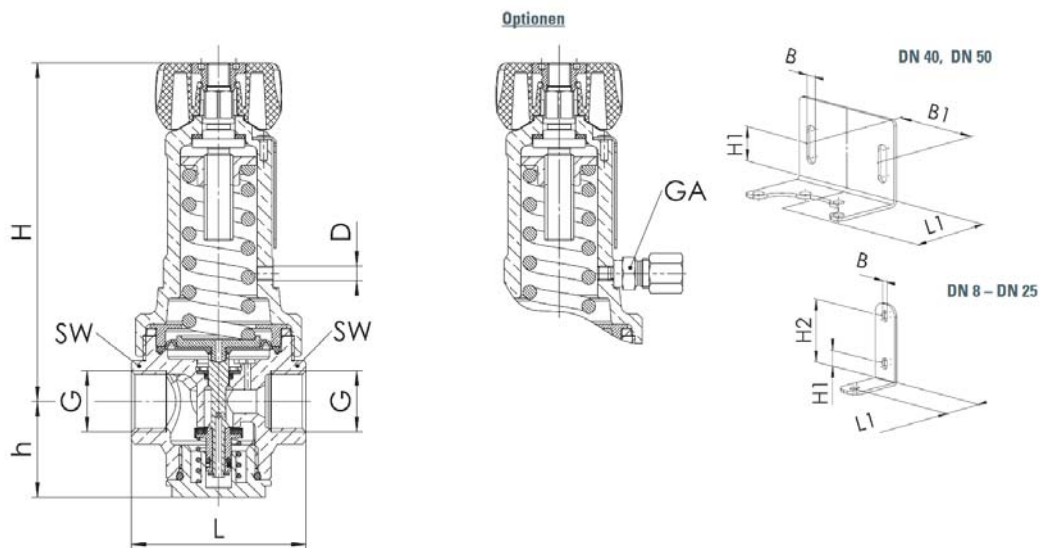
SM	Standard version with diaphragm	Inlet pressure: up to 60 bar	Outlet pressure: 0,5 to 15 bar
SK	Standard version with piston	Inlet pressure: up to 60 bar	Outlet pressure: 5 to 30 bar
HK	High-pressure version with piston	Inlet pressure: up to 60 bar	Outlet pressure: 10 to 50 bar

Standard sealing materials:

EPDM	(E)	Ethylene-propylene-diene	Elastomere-shaped seal with metallic support up to 25 bar	-40°C up to +170°C
FKM	(V)	Fluorocarbon	Elastomere-shaped seal with metallic support up to 25 bar	-20° C up to +200°C

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description	material
inlet body	gunmetal CC499K
outlet body	gunmetal CC499K
internal parts	brass CW617N
seal	FKM / EPDM
pressure spring	spring steel with anti-rust protection

diameter G	L (mm)	H (mm)	h (mm)	SW (mm)	Kv-value m³/h	Inlet pressure (bar)	weight (kg)
G 1/4"	68	120	33	26	1,6	60	1,2
G 3/8"	68	120	33	26	1,6	60	1,2
G 1/2"	60	120	33	26	1,6	60	1,2
G 3/4"	78	180	40	32	3,4	60	2,8
G 1"	102	215	56	44	5,5	60	5,3
G 1 1/2"	136	260	63	58	12,7	60	9,4
G 2"	136	270	70	70	12,7	60	10,2

diameter	Order-Number					
	235-RG/SM diaphragm	outlet pressure adjustable (bar)	235-RG/SK piston	outlet pressure adjustable (bar)	235-RG/HK high pressure piston	outlet pressure adjustable (bar)
G 1/4"	19.5035.1.61	0,5 - 15,0	19.5036.1.61	5,0 - 30,0	19.5039.1.61	10,0 - 50,0
G 3/8"	19.5035.1.62	0,5 - 15,0	19.5036.1.62	5,0 - 30,0	19.5039.1.62	10,0 - 50,0
G 1/2"	19.5035.1.63	0,5 - 15,0	19.5036.1.63	5,0 - 30,0	19.5039.1.63	10,0 - 50,0
G 3/4"	19.5035.1.65	0,5 - 15,0	19.5036.1.65	5,0 - 30,0	19.5039.1.65	10,0 - 50,0
G 1"	19.5035.1.67	0,5 - 15,0	19.5036.1.67	5,0 - 30,0	19.5039.1.67	10,0 - 50,0
G 1 1/2"	19.5035.1.69	0,5 - 15,0	19.5036.1.69	5,0 - 30,0	19.5039.1.69	10,0 - 50,0
G 2"	19.5035.1.71	0,5 - 15,0	19.5036.1.71	5,0 - 30,0	19.5039.1.71	10,0 - 50,0

Options against surcharge:

GA	ducted exhaust air in case of medium GS (specific ducting of secondary venting)
GA - SV	cutting ring threaded connection according to EN ISO 8434-1 for pipe diameter 6mm
GA - CK	CK-Quick connector for pipe diameter 6 mm up to 10 bar