Pressure Reducer

Product Information

Series 42.008.126

A. u. K. Müller

Solenoid valves
Control valves
Special valves and systems

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Characteristics

- Outlet pressure adjustable, factory presettable
- With snap-lock adjustment knob
- Balancing of inlet pressure
- Suitable for hot water up to 85 °C
- Ambient temperature up to 70 °C
- Reduced noise of flow
- Compact design
- Hydraulic functionality in accordance to EN 1567
- Long term performance capability by the use of high quality materials

Applications

- Pressure reduction and flow rate regulation
- Protection of pressure caused damages of pipework downstream
- Pipework in home and industrial appliances
- Upstream to water inlet valves for appliances as vending and espresso machines, industrial appliances, steam ovens and others

Possible approvals

Approved versions available on request:

- KTW/W270
- WRAS
- SVGW
- Others on request

Description

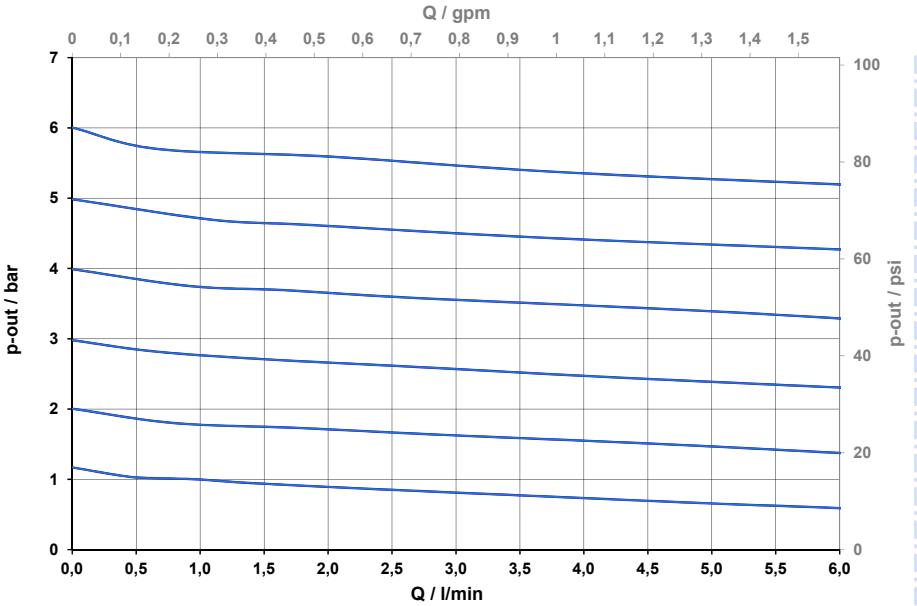
The pressure regulator converts variable inlet pressures into a lower, constant outlet pressure. It can be used to protect equipment from high or inconsistent incoming medium pressure.

This reduced and constant outlet pressure also enables a constant flow rate to be achieved independently of the incoming pressure. The orifice used to maintain this constant flow rate should be placed immediately after the pressure reducer. The pressure can easily be adjusted within the regulators specification range and is ideal for applications that require a constant flow rate or a specific timed volume delivery.

To ensure operation and long reliability of the pressure regulator it is recommended that a dirt strainer is fitted to the inlet. Check valves or solenoid valves can be placed downstream of the regulator.

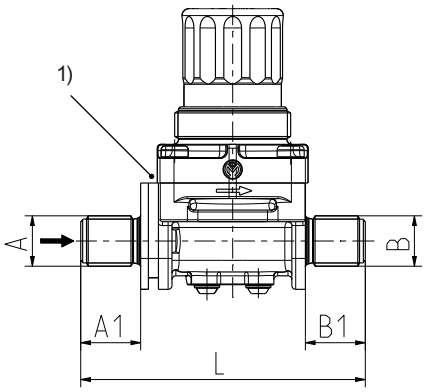
The hydraulic functionality according to DIN EN 1567 is confirmed by an accredited laboratory. Furthermore, WRAS and SVGW approved versions are available.

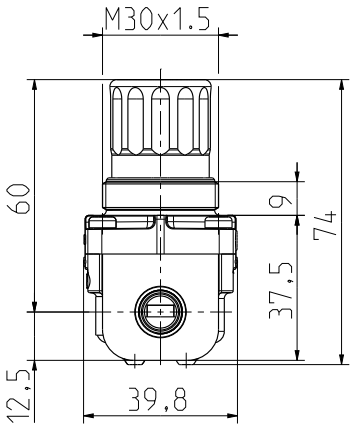
Typical flow rates at pressure p-in set to 8 bar,
pressure p-out set to 1,2, 2, 3, 4, 5, or 6 bar.
Measured back pressure with ball valve adjusted from 0 - 6 l / min.

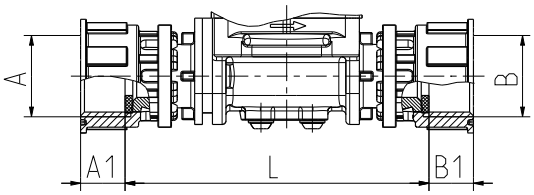


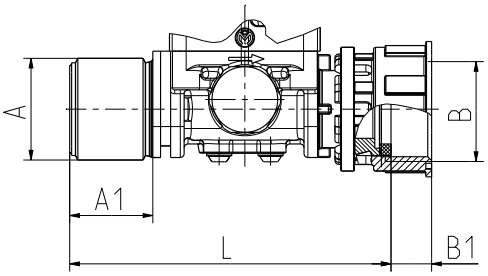
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Pressure gauge connection

1) Fixing groove

Technical Data

Type	pressure reducer	
Construction	single chamber straight	
Fitting position	any, direction of flow marked by arrow	
Media	cold and heated potable water and physically and chemically similar media	
T-Medium	85 (185)	°C max. (°F max.)
T-Ambient	70 (158)	°C max. (°F max.)
DN	8 (0.315)	mm (inch)

Materials

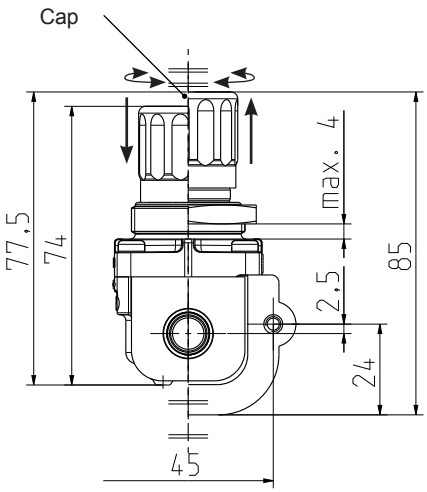
Valve body	PA 6/6
Spring and metallic parts	stainless steel
Membrane and sealings	EPDM
Filter in inlet (optional)	Stainless steel

Outlet pressure adjustment

- Release screw in middle of the cap
- Unlock the cap by pulling
- Set the desired output pressure by turning the cap
  (The direction of rotation is indicated by + or -.)
- Press back cap into the locking position
- Tighten again the screw in the cap middle slightly

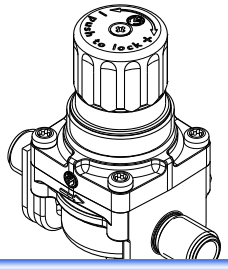
The setting is carried out at steady-state pressure.

Upon delivery, the outlet pressure is factory set at 3 bar. Custom presets are available on request.



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Options

ID	Material	Inlet		Outlet		Length	Pressure gauge connection G 1/4	Filter	p-inlet bar (psi)	p-outlet bar (psi)
		Ø A	A1	Ø B	B1	L				
096400	PA 6/6	G 1/4	15,5	G 1/4	15,5	73,6	-	-*	16 (232)	1,2 - max. 8,0 (17,4 - max. 116)
096401		G 1/4	15,5	G 1/4	15,5	73,6	x	-*	16 (232)	1,2 - max. 8,0 (17,4 - max. 116)
096402		G 3/8	15,5	G 3/8	15,5	73,6	x	x	16 (232)	1,2 - max. 8,0 (17,4 - max. 116)
096403		G 1/2	18,0	G 1/2	18,0	78,6	x	x	16 (232)	1,2 - max. 8,0 (17,4 - max. 116)
096405		G 3/4	21,5	G 3/4	21,5	85,6	x	x	16 (232)	1,2 - max. 8,0 (17,4 - max. 116)
096406		G 3/4	21,5	G 3/4 Swivel nut	11,5	82,1	x	x	16 (232)	1,2 - max. 8,0 (17,4 - max. 116)
on request		G 1/4	9,0	G 1/4	9,0	60,6	*	*	16 (232)	1,2 - max. 8,0 (17,4 - max. 116)
on request		Ø10 mm John Guest	15,5	Ø10 mm John Guest	15,5	73,6	*	*	16 (232)	1,2 - max. 8,0 (17,4 - max. 116)
on request		G 1/4 female	15,5	G 1/4 female	15,5	73,6	*	*	16 (232)	1,2 - max. 8,0 (17,4 - max. 116)
on request		G 3/8	15,5	G 3/8	15,5	73,6	-	*	16 (232)	1,2 - max. 8,0 (17,4 - max. 116)
on request		G 1/2	18,0	G 1/2	18,0	78,6	-	*	16 (232)	1,2 - max. 8,0 (17,4 - max. 116)
on request		G 3/4 Swivel nut	11,5	G 3/4 Swivel nut	11,5	78,6	*	*	16 (232)	1,2 - max. 8,0 (17,4 - max. 116)
on request		G 1/2 Swivel nut	11,5	G 1/2 Swivel nut	11,5	78,6	*	*	16 (232)	1,2 - max. 8,0 (17,4 - max. 116)
* optional										
Other connection variants on request.										

Low pressure variant

The hydraulic functionality according to DIN EN 1567 is not defined for this pressure range. Therefore there exists no possibility for an accredited test house to test or certify the function for compliance with a standard.

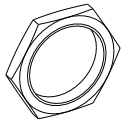
Options

ID	Material	Inlet		Outlet		Length	Pressure gauge connection G 1/4	Filter	p-inlet bar (psi)	p-outlet bar (psi)
		Ø A	A1	Ø B	B1	L				
096408	PA 6/6	G 3/4	21,5	G 3/4 Swivel nut	11,5	82,1	x	x	10 (145)	0,2 - max. 1,0 (2,9 - max. 14,5)
Other connection variants on request.										

Accessory

Nut

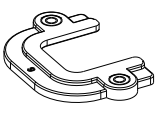
M 30x1.5



ID

009718

Flange



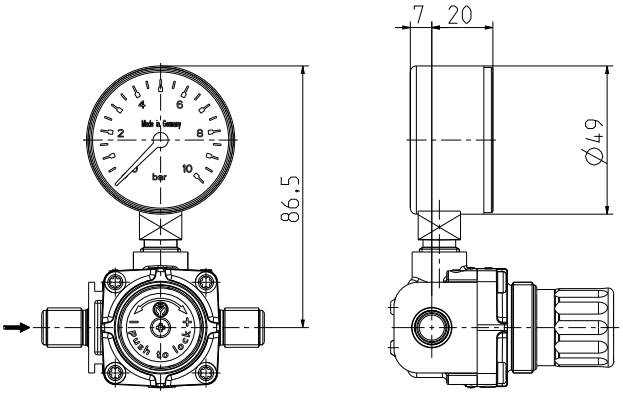
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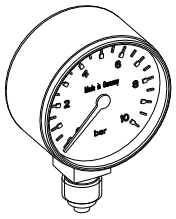
001245

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Pressure gauge connection options

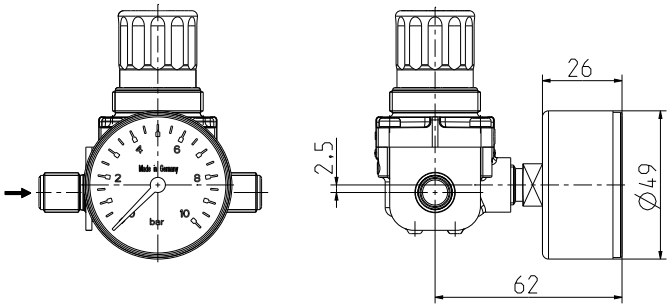




Optional manometer

NS: 50 mm
Range: 0 - 10 bar
Connection: G 1/4 radial on bottom

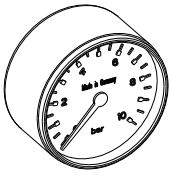
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Please make sure that the pressure regulator is not bended during installation:

- Please support connections properly
- Please align connections properly

Connection	Bending torque
G 1/4	max. 9 Nm
G 3/8	max. 18 Nm
G 1/2	max. 40 Nm - in accordance to EN 1567 § 8.2.1
G 3/4	max. 40 Nm - in accordance to EN 1567 § 8.2.1



Optional manometer

NS: 50 mm
Range: 0 - 10 bar
Connection: G 1/4 center back

ID: 010047

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