Pressure Reducer

Product Information

A. u. K. Müller

Solenoid valves
Control valves
Special valves and systems

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Series 42.008.126

Outlet pressure adjustable

between 1,2 - 8,0 bar

Outlet pressure fixed

between 1,2 - 8,0 bar selectable

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.

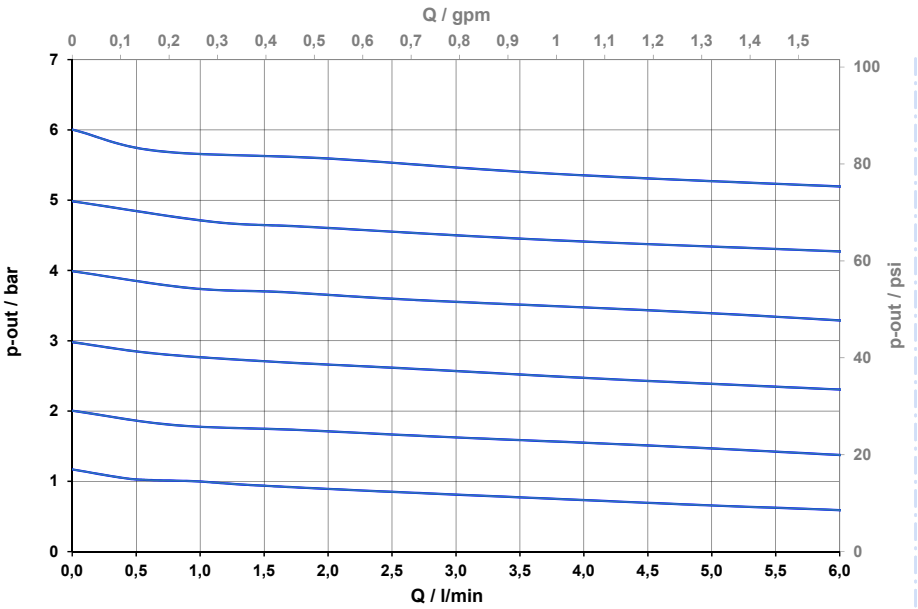
Due to the reduced outlet pressure, which acts against an orifice plate, the flow rate can also be set in a defined manner and is largely independent of the inlet pressure within the specified setting limits. This benefits units that require a constant supply or are to be filled with a defined volume in a time-controlled manner.

Pressure reducers with a fixed back pressure are also available as an option.

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.

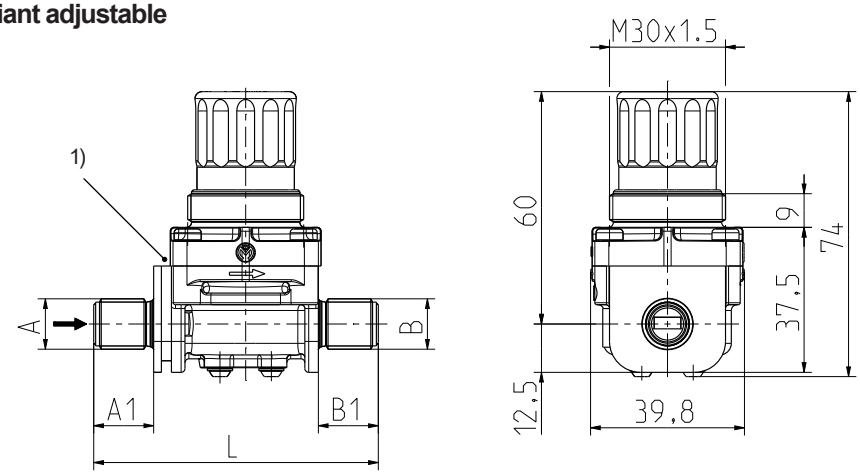
The hydraulic functionality according to DIN EN 1567 is confirmed by an accredited laboratory. Furthermore, WRAS and SVGW approved versions are available.

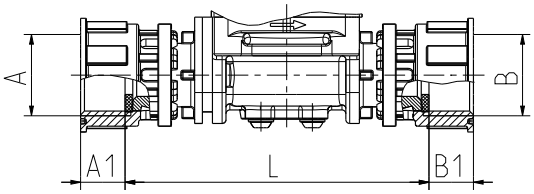
Typical flow rates at pressure p-in set to 8 bar,
pressure p-out set to 1,2, 2, 3, 4, 5, or 6 bar.
Measured back pressure with ball valve adjusted from 0 - 6 l / min.

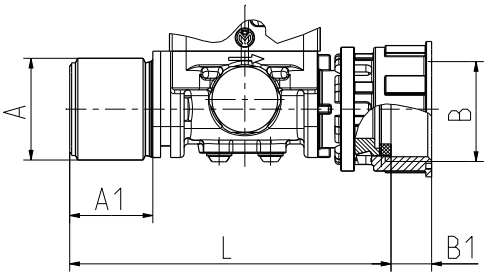


Series 42.008.126

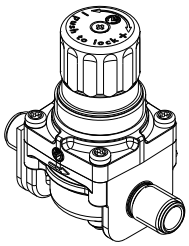
Variant adjustable







Pressure gauge connection



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	5 - 85 (41 - 185)	°C (°F)
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

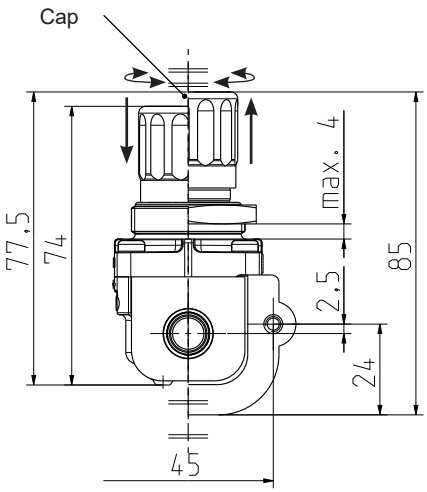
1) Fixing groove

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.

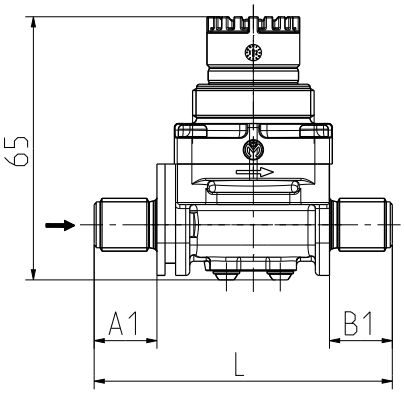
Upon delivery, the outlet pressure is factory set at ³ bar. Custom presets are available on request.

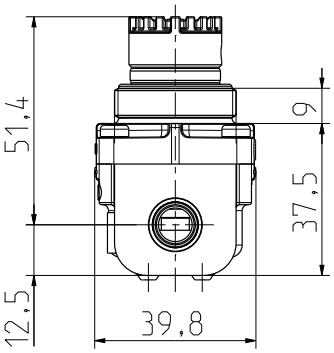


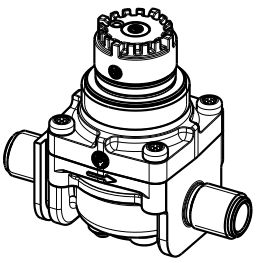
Series 42.008.126

Variant fixed set

With this version of the pressure reducer, the pressure is reduced from an inlet pressure of up to 16 bar to a fixed value in the outlet.







Series 42.008.126

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)

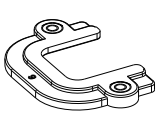
Other connection variants on request.

Accessory

Nut
M 30x1.5

ID
009718

Flange



ID
010660

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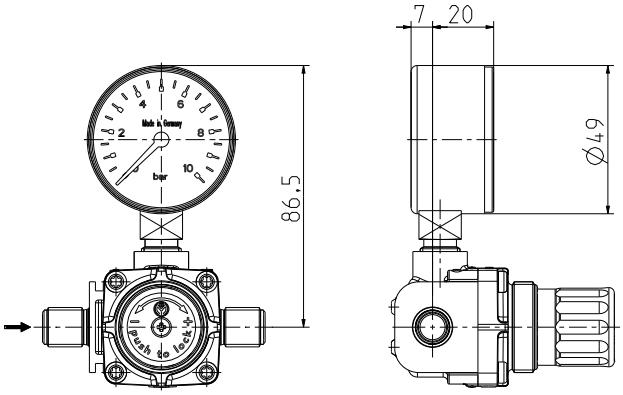
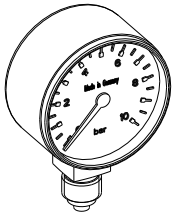
Pressure gauge connection options

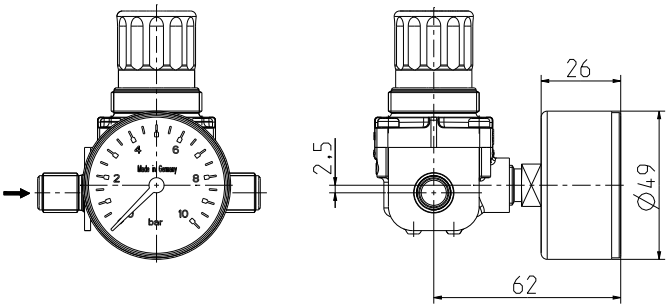




Optional manometer

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

ID: 006841



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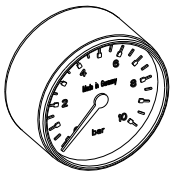
Please make sure that the pressure regulator is not bended during installation:

- 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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