Pressure regulator for water

- Brass variant with DVGW and international drinking water approvals
- Stainless steel variante with DVGW approval for drinking water
- Compact plastic variant
- Pressure gauge port at pressure output

Product variants described in the data sheet may differ from the product presentation and description.

Type description

The water pressure regulator works on the principle of pressure reduction. It is preferably for use in the provided water systems. The pressure regulator consists of a housing, a piston or diaphragm valve with an adjustable spring and a spring cap. The inlet pressure reaches the target value, opens the piston or diaphragm against the spring force of the control valve and builds up the output pressure. The output pressure is the controlled variable. When exceeding the nominal value the valve closes, when there is a shortfall the valve opens and thus the output pressure is kept almost constant. By changing the spring tension, the spring setpoint can be continuously adjusted.
The pressure regulator is available in four variants:
- Variant I: brass housing
- Variant II: brass housing with inspectable strainer
- Variant III: stainless steel housing
- Variant IV: plastic housing with threaded connection G1/8" and G1/4"

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Table of contents

1. General technical data 3

1.1. Variant I ... 3
1.2. Variant II ... 3
1.3. Variant III ... 4
1.4. Variant VI ... 4

2. Approvals and conformities 5

2.1. General notes ... 5
2.2. Conformity ... 5
2.3. Standards ... 5

3. Materials 5

3.1. Bürkert resistApp ... 5

4. Ordering information 5

4.1. Bürkert eShop ... 5
4.2. Bürkert product filter ... 6
4.3. Pressure regulator for water ... 6
Variant I ... 6
Variant II ... 6
Spare parts variant I and II ... 7
4.4. Pressure regulator for water in stainless steel ... 7
Variant III ... 7
Spare parts Variant III ... 7
4.5. Pressure regulator for water in plastic ... 7
Variant IV ... 7
4.6. Control panel nut ... 8
4.7. Mounting bracket for control panel mounting, galvanised steel ... 8

DTS 1000108391 EN Version: - Status: RL (released | freigegeben | valide) printed: 28.10.2026

1. General technical data

1.1. Variant I

Product properties	
Dimensions	Further information can be found in chapter "4.3. Pressure regulator for water" on page 6.
Material	
Seal	EPDM
Body	EN 1982 CC770S
Diaphragm	EPDM
Valve seat	Stainless steel
Valve type	Single seat valve, relieved
Filter	Mesh-size 0.51 mm
Performance data	
Inlet pressure	Max. 25 bar [1.)]
Outlet pressure	1...6 bar [1.)]
Default setting	3 bar [1.)]
Flow rate	1...2 m/s (optimum values)
Noise class II	< 30 dB
Medium data	
Medium temperature	+ 60 °C
Process/Port connection & communication	
Pressure gauge connection	G ¼ (without pressure gauge)
Port connections	½" to 2" (threaded nozzle)
Environment and installation	
Mounting place	If possible directly behind the counter
Installation position	Horizontal or vertical, preferably with spring cap upright. Observe flow direction.

1.) Pressure data: overpressure to atmospheric pressure

1.2. Variant II

Product properties	
Dimensions	Further information can be found in chapter "4.3. Pressure regulator for water" on page 6.
Material	
Seal	EPDM
Body	Brass DZR EN 12165 CW617 N
Diaphragm	EPDM
Valve seat	Stainless steel
Valve type	Single seat valve, relieved
Filter	Inspectable, mesh-size 0.51 mm
Performance data	
Inlet pressure	Max. 25 bar [1.)]
Outlet pressure	1...6 bar [1.)]
Default setting	3 bar [1.)]
Flow rate	1...2 m/s (optimum values)
Noise class II	< 30 dB
Medium data	
Medium temperature	+ 40 °C

DTS 1000108391 EN Version: - Status: RL (released | freigegeben | valide) printed: 28.10.2026

Process/Port connection & communication	
Pressure gauge connection	G ¼ (without pressure gauge)
Port connections	½" to 1" (threaded nozzle)
Environment and installation	
Mounting place	If possible directly behind the counter
Installation position	Horizontal or vertical, preferably with spring cap upright. Observe flow direction.

1.) Pressure data: overpressure to atmospheric pressure

1.3. Variant III

Product properties	
Dimensions	Further information can be found in chapter "4.4. Pressure regulator for water in stainless steel" on page 7.
Material	
Seal	EPDM
Body	Stainless steel 1.4305
Diaphragm	EPDM
Valve seat	Stainless steel
Filter bowl	Stainless steel
Valve type	Single seat valve, relieved
Performance data	
Inlet pressure	Max. 25 bar [1.)]
Outlet pressure	1.5...6 bar [1.)]
Default setting	3 bar [1.)]
Flow rate	1...2 m/s (optimum values)
Noise class II	< 30 dB
Medium data	
Medium temperature	+ 70 °C
Process/Port connection & communication	
Pressure gauge connection	Both ways ¼" (without pressure gauge)
Port connections	½" to 2" (threaded nozzle)
Environment and installation	
Mounting place	If possible directly behind the counter
Installation position	In horizontal direction, filter bowl downwards

1.) Pressure data: overpressure to atmospheric pressure

1.4. Variant VI

Note:
Plastic body with threaded ports G ⅛ and G ¼

Product properties	
Dimensions	Further information can be found in chapter "4.5. Pressure regulator for water in plastic" on page 8.
Material	
Body	Technopolymer
Threaded port	Brass
Special roller diaphragm	NBR
Performance data	
Inlet pressure	Max. 13 bar [1.)]
Outlet pressure (continuously adjustable)	0...4 bar [1.)] 0...8 bar [1.)] 0...12 bar [1.)]
Set-point adjustment	Only ascending pressure, screw can be locked

DTS 1000108391 EN Version: - Status: RL (released | freigegeben | valide) printed: 28.10.2026

Medium data	
Operating medium	Water
Medium temperature	Max. + 50 °C
Process/Port connection & communication	
Pressure gauge connection	G ⅛ (without pressure gauge)
Port connections	Threaded port G ⅛ or G ¼
Environment and installation	
Installation position	As required, preferably with controller handle upright. Observe flow direction.

1.) Pressure data: overpressure to atmospheric pressure

2. Approvals and conformities

2.1. General notes

- The approvals and conformities listed below must be stated when making enquiries. This is the only way to ensure that the product complies with all required specifications.
- Not all available variants can be supplied with the below mentioned approvals or conformities.

2.2. Conformity

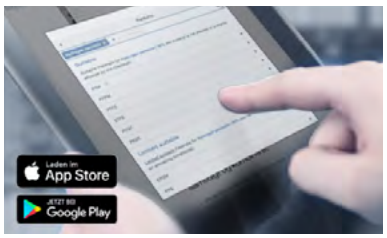
In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.

2.3. Standards

The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.

3. Materials

3.1. Bürkert resistApp



Bürkert resistApp – Chemical resistance chart

You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

Start chemical resistance check

4. Ordering information

4.1. Bürkert eShop

Bürkert eShop – Easy ordering and quick delivery

You want to find your desired Bürkert product or spare part quickly and order directly? Our online shop is available for you 24/7. Sign up and enjoy all the benefits.

Order online now

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4.2. Bürkert product filter

Bürkert product filter – Get quickly to the right product

You want to select products comfortably based on your technical requirements?
Use the Bürkert product filter and find suitable articles for your application quickly and easily.

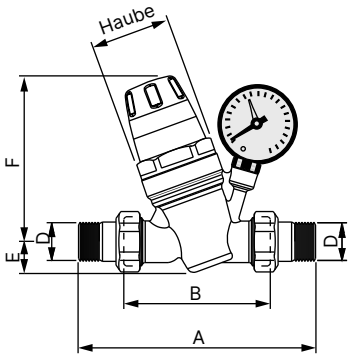
Try out our product filter

4.3. Pressure regulator for water

Variant I

Note:

- Dimensions in mm
- The pressure regulator variant I has a pressure gauge connection G ¼ for measuring the output pressure. The device is delivered without pressure gauge.

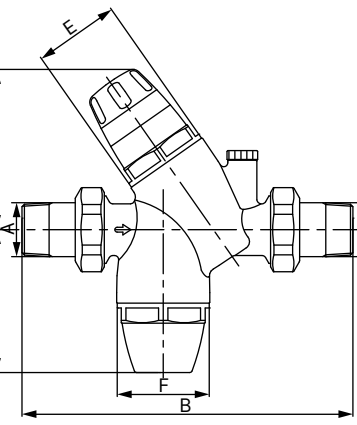


Port connections D	A	B	E	F	Ø cover	K_{VS} value	Article no.
[inch]	[mm]	[mm]	[mm]	[mm]	[mm]	[m³/h]	
½	140	76	20.5	112	54	1.27	788439
¾	160	90	20.5	112	54	2.27	788440
1	180	95	20.5	112	54	3.6	788441
1¼	200	110	40	178	73	5.8	788442
1½	220	120	40	178	73	9.1	788443
2	250	130	40	178	73	14	788444

Variant II

Note:

- Dimensions in mm
- The device is delivered without pressure gauge.



Port connections A	B	C	D	E	G	K_{VS} value	Article no.
[inch]	[mm]	[mm]	[mm]	[mm]	[mm]	[m³/h]	
½	169	86.5	100.5	54	58	1.27	771130
¾	180	89	98	54	58	2.27	770991
1	205	88.5	99.5	54	58	3.6	770992

DTS 1000108391 EN Version: - Status: RL (released | freigegeben | valide) printed: 28.10.2026

Spare parts variant I and II

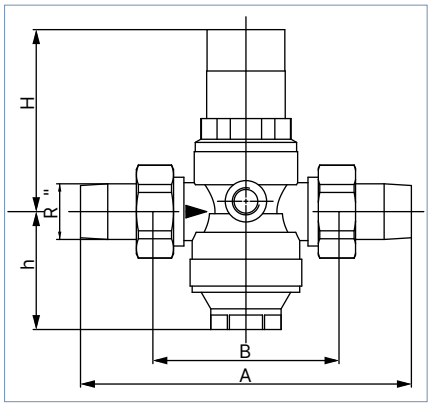
Note:
Dimensions in mm

Spare parts	Article no.
Cartridge for ½"	771847
Cartridge for ¾"	771847
Cartridge for 1"	771848
Cartridge for 1¼"	771849
Cartridge for 1½"	770243
Cartridge for 2"	770243
Tool for filter case	771851
Filter for variant II	771852
Filter case for variant II	771853

4.4. Pressure regulator for water in stainless steel

Variant III

Note:
Dimensions in mm



Port connections R [inch]	A [mm]	B [mm]	H [mm]	h [mm]	K_{VS} value [m³/h]	Article no.
½	140	80	89	58	2.4	770977
¾	160	90	89	58	3.1	771854
1	180	100	111	64	5.8	771855
1¼	200	105	111	64	5.9	771856
1½	225	130	173	126	12.6	771857
2	255	140	173	126	12	771858

Spare parts Variant III

Spare parts	Article no.
Valve insert ½" and ¾"	772210
Valve insert 1" and 1¼"	772211
Valve insert 1½" and 2"	772212
Replacement filter ½" and ¾"	772213
Replacement filter 1" and 1¼"	772214
Replacement filter 1½" and 2"	772216
Tool for releasing	772217

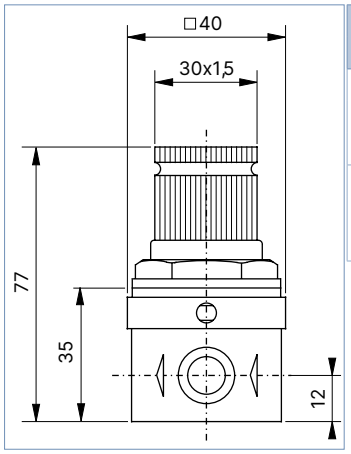
DTS 1000108391 EN Version: - Status: RL (released | freigegeben | valide) printed: 28.10.2026

4.5. Pressure regulator for water in plastic

Variant IV

Note:

- Dimensions in mm
- Plastic body with threaded ports G ⅛ and G ¼
- For manometer see data sheet **Type TAU001** ▶.
- The pressure regulator variant IV has a pressure gauge connection of G ⅛ for measuring the output pressure.



Port connections threaded port	Operating pressure [1.)] [bar]	Article no.
G ⅛	0...4	783256
	0...8	783257
	0...12	783258
G ¼	0...4	783259
	0...8	783260
	0...12	783261

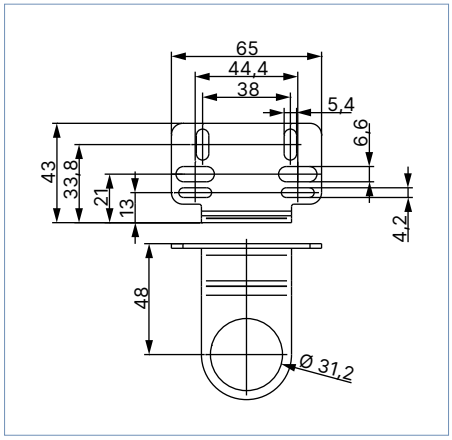
4.6. Control panel nut

Thread	Material	Article no.
M30 × 1.5	POM	772065

4.7. Mounting bracket for control panel mounting, galvanised steel

Note:

- Dimensions in mm
- For variant IV: article no. 772062



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