



## Pressure reducer for drinking water

**100.01 to 100.06**
**101360 to 101365**
**R 1/2 bis R 2**
**Standard type with  
control dial  
1.5 to 6 bar**

### Characteristics

Art. No. Ident No.	100.01 101360	100.02 101361	100.03 101362
Thread	R 1/2	R 3/4	R 1
Art. No. Ident No.	100.04 101363	100.05 101364	100.06 101365
Thread	R 1 1/4	R 1 1/2	R 2
Pressure gauge port	G 1/4		
Type of construction	<b>Diaphragm pressure regulator with pressure-reduced single-seated valve</b>		
Medium	Water, non-corrosive liquids Compressed air, nitrogen		
Control range $p_2$	1.5 to 6 bar <b>Preset to 4 bar in the factory</b>		
Mounting position	<b>Horizontal, strainer cup at bottom Please heed the installation instructions contained in the installation and operating manual</b>		
Max. input pressure $p_1$	16 bar, transparent strainer cup		
Mounting type	Horizontal in-line		
Operating temperature	2 to 30 °C		
Min. pressure drop $\Delta p$	1 bar		

### Materials

Part	Material
Body	Brass
Screw fittings	Brass
Valve insert	Hostaform
Fine screen	Stainless steel
Spring bonnet with adjusting knob and control dial	High-quality plastic
Strainer cup	Transparent plastic or brass
Diaphragm	NBR, braided
Seals	NBR
Adjustment spring	Spring steel

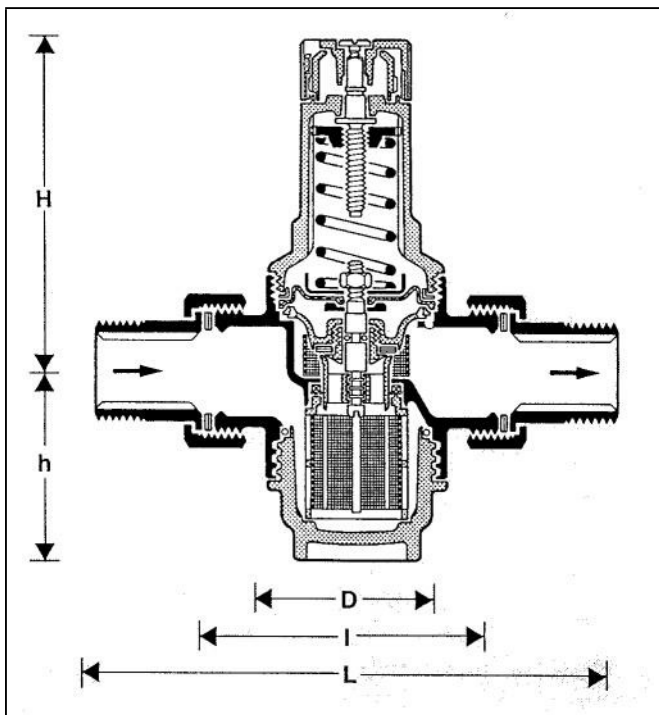
### Description

- **DVGW-tested**
- **Noise-tested**, Group 1, unconditionally approved
- One turn of the adjusting knob suffices to set the setpoint
- Setpoint can be read off directly on the control dial
- No contact between the adjustment spring and the drinking water
- Pressure gauge port on both sides: G 1/4
- Screw fittings and pressure gauge  $\varnothing 63$  included
- Valve insert made of high-quality plastic, replacement without dismantling
- Integrated fine screen, mesh size 0.16 mm
- Transparent plastic strainer cup
- Independent of inlet pressure, inlet pressure variations have no influence on the outlet pressure
- No need to remove the pressure reducer from the pipe for maintenance and repair
- Meets German KTW specifications
- Lightweight design
- Reliable, proven millions of times over
- Converts easily to a back-flushing filter combination
- Can be retrofitted with an upstream non-return valve

### Applications

The pressure reducers in the 100... series protect domestic water installations against high supply pressure. They can also be used for commercial or industrial purposes providing their specification is adequate.

Using a pressure reducer prevents pressure damage and reduces water consumption. The set pressure remains constant, even if the inlet pressures vary significantly. By reducing the operating pressure and maintaining it at a constant level, it is possible to keep undesirable flow noises in the installation to a minimum.

**Dimensions [mm]**

**Installation**

- The pressure reducer should preferably be installed in a horizontal pipe with the strainer cup at the bottom
  - This mounting position facilitates cleaning
- Shut-off valves must be provided
  - Shut-off valves allow the pressure reducer to be maintained and repaired without being removed from the pipe
- Ensure easy accessibility
  - The pressure gauge must be clearly visible
  - The version with a transparent strainer cup allows the degree of contamination to be monitored at a glance
  - Maintenance and inspection are simplified
- Install directly downstream of the fine filter at the house connection
  - The pressure reducer is optimally protected against dirt
- A settling section equivalent to at least 5 x DN is recommended downstream of the pressure reducer (DIN 1988, Part 5)

**Minimum clearance between wall and centre of pipe**

Thread	R	1/2	3/4	1	1 1/4	1 1/2	2
	[mm]	55	55	55	60	70	70

Thread	R	1/2	3/4	1	1 1/4	1 1/2	2
Nominal diameter	DN	15	20	25	32	40	50
Weight	approx. [g]	700	850	1300	1900	3000	4000
Dimensions	[mm]						
	L	140	160	180	200	225	255
	I	80	90	100	105	130	140
	H	89	89	111	111	173	173
	h	58	58	64	64	126	126
	D	54	54	61	61	82	82
Kvs value		2.4	3.1	7.6	9.1	12.6	12.0
Peak flow, water (m³/h)							
acc. to DIN 1988, Part 5							
Residential buildings		1.8	2.9	4.7	7.2	8.3	13
Commercial buildings		1.8	3.3	5.4	8.6	13.7	21.2
IfBt code		P-IX 1582/I	P-IX 1582 I	P-IX 1582 I	P-IX 1582 I	No mandatory tests	No mandatory tests
DVGW test no.		0432	0433	0896	0435	0436	0437

**Main spare parts**

Thread	Part										Flow rates	
	Valve replacement kit		Replacement strainer		Strainer cup				Pressure gauge		Water	Air
					Transparent		Brass					
	Art. No.	Ident No.	Art. No.	Ident No.	Art. No.	Ident No.	Art. No.	Ident No.	Art. No.	Ident No.	Kvs x $\sqrt{p_1-p_2}$	See nomogram Page 2-26
R 1/2 + R 3/4	100/201	101375	100/221	101378	100/241	101381	100/261	101384	217-KD	101244		
R 1 + R 1 1/4	100/204	101376	100/224	101379	100/244	101382	100/264	101385				
R 1 1/2 + R 2	100/203	101377	100/223	101380	100/243	101383	100/263	101386				

**Maintenance**

	Activity	Interval	Responsible
<b>Inspection</b>	Visual inspection of the output pressure setting on the pressure gauge at zero and peak flow (high draw-off quantity)	Once every year	Owner or plumbing firm
<b>Maintenance</b>	Clean the screen and if necessary replace  If the output pressure setting does not yield a constant value at zero flow, the valve insert must be removed, inspected and if necessary replaced	Once every 1 to 3 years, depending on local operating conditions	Plumbing firm

**Accessories**

Designation	Order No.
Double ring spanner - For threads R 1/2 to R 2	ZR 06 A / 101387
Wearing part set consisting of: 2x cap nuts, 2x screw fittings, 2x sealing rings	See chart



ZR 06 A



VST06-1A

Art. No. Ident No.	a/f	Seal outside Ø	Length	Thread
VST06-1/2A 101388	30 mm	24 mm	28 mm	1/2"
VST06-3/4A 101389	37 mm	30 mm	32 mm	3/4"
VST06-1A 101390	46 mm	38.5 mm	38 mm	1"
VST06-11/4A 101391	52 mm	44 mm	44 mm	1 1/4"
VST06-11/2A 101392	64 mm	57 mm	47.5 mm	1 1/2"
VST06-2A 101393	84 mm	70.5 mm	58 mm	2"