



Pressure reducer

for drinking water

100.21 to 100.26

R 1/2 to R 2

Low-pressure type 0.5 to 2 bar

Characteristics

Order No.	100.21	100.22	100.23		
Thread	R 1/2	R 3/4	R 1		
Order No.	100.24	100.25	100.26		
Thread	R 11/4	R 1½	R 2		
Pressure gauge port		G 1/4			
Type of construction		n pressure regu			
. , , , , , , , , , , , , , , , , , , ,	pressure-re	duced single-s	eated valve		
Medium		, non-corrosive l	•		
Compressed air, nitrogen					
Control range p ₂	0.5 to 2 bar				
	Horizontal, strainer cup at bottom				
Mounting position	Please heed the installation instructions				
Woulding position	contained in the				
	installation and operating manual				
Max. input pressure p ₁	25 bar, brass strainer cup				
Mounting type	Horizontal in-line				
Operating temperature	Max. 70 °C, brass strainer cup				
Min. pressure drop Δp	0.5 bar				

Materials

Part	Material
Body	Brass
Intermediate ring	Brass
Screw fittings	Brass
Valve insert	High-quality plastic
Fine screen	Stainless steel
Spring bonnet with adjusting knob	High-quality plastic
Strainer cup	Brass
Diaphragm	NBR, braided
Seals	NBR
Adjustment spring	Spring steel

Description

- Pressure gauge port on both sides: G ¼
- Adjusting knob for the outlet pressure
- Screw fittings and pressure gauge ∅63 included
- Valve insert made of high-quality plastic, replacement without dismantling
- Integrated fine screen, mesh size 0.16 mm
- Brass strainer cup
- Independent of inlet pressure, inlet pressure variations have no influence on the outlet pressure
- No contact between the adjustment spring and the drinking water
- No need to remove the pressure reducer from the pipe for maintenance and repair
- Meets German KTW specifications
- Lightweight design
- Converts easily to a back-flushing filter combination
- Can be retrofitted with an upstream nonreturn valve
- Reliable and proven

Applications

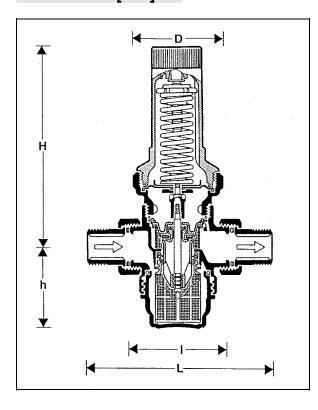
The pressure reducers in the 100... series protect domestic water installations against high supply pressure. They can also be used for commercial or industrial purposes providing their specification is adequate.

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.

Heating & plumbing



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
 - Maintenance and inspection are simplified
- Install downstream of the fine filter
 - 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	11/4	11/2	2
	[mm]	55	55	60	60	70	70

Thread	R	1/2	3/4	1	11/4	1½	2
Nominal diameter	DN	15	20	25	32	40	50
Weight app	rox. [g]	1400	1600	2400	2800	4400	5600
Dimensions	[mm]						
	Ĺ	140	160	180	200	225	255
	1	80	90	100	105	130	140
	Н	148	148	185	185	210	210
	h	56	56	77	77	113	113
	D	73	73	83	83	102	102
Kvs value		2.4	3.1	7.6	9.1	12.6	12.0
Peak flow, water (m ³	³/h)						
acc. to DIN 1988, Pa	art 5						
Residential buildings	3	1.8	2.9	4.7	7.2	8.3	13
Commercial building	ıs	1.8	3.3	5.4	8.6	13.7	21.2

Main spare parts

		Part				
Ì		Valve re-	Replace-	Strain	Pressure	
	Thread	placement	ment	Transparent	Brass	
		kit	strainer			gauge
	R ½ + R ¾	100/211	100/221		100/261	
	R 1 + R11/4	100/212	100/222		100/262	215-KD
	R 1½ + R 2	100/213	100/223		100/263	

Flow rates

Water	Air
	See
Kvs x √p1-p ₂	nomogram
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Maintenance

	Activity	Interval	Responsible
Inspection	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
Maint- enance	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



Heating & plumbing

Accessories

Designation	Order No.
Double ring spanner	
- For threads	
R 1/2 to R 1	ZR 06 B
R 11/4 to R 2	ZR 06 A
Wearing part set consisting of: 2x cap nuts, 2x screw fittings, 2x sealing rings	See chart





VST06-1A

Order No.	a/f	Seal outside Ø	Length	Thread
VST06-1/2A	30 mm	24 mm	28 mm	1/2"
VST06-3/4A	37 mm	30 mm	32 mm	3/4"
VST06-1A	46 mm	38,5 mm	38 mm	1"