



Characteristics

| Order No. | 100.11 | 100.12 | 100.13 | | |
|------------------------------------|---|-------------------|-------------|--|--|
| Thread | R 1/2 R 3/4 | | R 1 | | |
| Order No. | 100.14 100.15 100.1 | | | | |
| Thread | R 1¼ | R 1½ | R 2 | | |
| Pressure gauge port | | G 1/4 | | | |
| Type of construction | | n pressure regi | | | |
| | pressure-re | duced single-s | eated valve | | |
| Medium | | , non-corrosive l | | | |
| Medidin | Compressed air, nitrogen | | | | |
| Control range p ₂ | 1.5 to 12 bar | | | | |
| | Horizontal, strainer cup at bottom | | | | |
| Mounting position | Please heed the installation instructions | | | | |
| Mounting 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 | 2 to 70 °C | | | | |
| Min. pressure drop ∆p | 1 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 1/4
- Adjusting knob for the outlet pressure
- Screw fittings and pressure gauge Ø63 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.

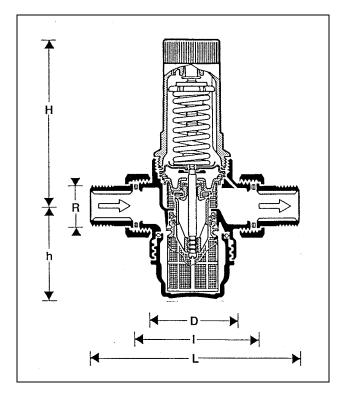
Using a pressure reducer prevents pressure damage and reduces water consumption. The set pressure remains constant, even if the inlet pressures vary significantly. By reducing the operating pressure and maintaining it at a constant level, it is possible to keep undesirable flow noises in the installation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



Heating and plumbing

20-24

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 | 1¼ | 11⁄2 | 2 |
|--------|------|-----|-----|----|----|------|----|
| | [mm] | 55 | 55 | 60 | 60 | 70 | 70 |

| Thread | R | 1/2 | 3/4 | 1 | 1¼ | 1½ | 2 |
|--------------------------|---------------------|-----|------|------|------|------|------|
| Nominal diameter DN | | 15 | 20 | 25 | 32 | 40 | 50 |
| Weight | approx. [g] | 800 | 1000 | 2200 | 2400 | 3400 | 5100 |
| Dimensions | [mm] | | | | | | |
| | L | 140 | 160 | 180 | 200 | 225 | 255 |
| | I | 80 | 90 | 100 | 105 | 130 | 140 |
| | Н | 96 | 96 | 140 | 140 | 172 | 172 |
| | h | 56 | 56 | 77 | 77 | 113 | 113 |
| | D | 54 | 54 | 72 | 72 | 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 build | lings | 1.8 | 2.9 | 4.7 | 7.2 | 8.3 | 13 |
| Commercial buil | dings | 1.8 | 3.3 | 5.4 | 8.6 | 13.7 | 21.2 |



Main spare parts

| | Part | | | | | |
|------------|-----------|----------|-----------------------|---------|----------|--|
| | Valve re- | Replace- | Replace- Strainer cup | | | |
| Thread | placement | ment | Transparent | Brass | Pressure | |
| | kit | strainer | - | | gauge | |
| R ½ + R ¾ | 100/201 | 100/221 | | 100/261 | | |
| R 1 + R1¼ | 100/202 | 100/222 | | 100/262 | 218- | |
| R 1½ + R 2 | 100/203 | 100/223 | | 100/263 | | |

Flow rates

.

| Water | Air |
|--------------|----------------------------------|
| Kvs x √p1-p₂ | See nomogram Page 2-26 |

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 |

Accessories

| Designation | Order No. |
|--|-----------|
| Double ring spanner | |
| - For threads | |
| R 1/2 to R 1 | ZR 06 B |
| R 1¼ 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" |
| VST06-11/4A | 52 mm | 44 mm | 44 mm | 1 1/4" |
| VST06-11/2A | 64 mm | 57 mm | 47,5 mm | 1 1/2" |
| VST06-2A | 84 mm | 70,5 mm | 58 mm | 2" |