

Pressure reducing valve, red brass, DN 15-50, PN 25, male threaded.



General

- Pressure reducing valve for water up to 95°C, compressed air, neutral gas, neutral and non-sticking liquids.
- Stable secondary pressure also when primary pressure varies.
- Stable secondary pressure at zero consumption.
- Built-in strainer, mesh size 0,6 mm (DN 15-32).
- Built-in strainer, mesh size 0,75 mm (DN 40-50).
- Threaded ends according to SS ISO 228/1.
- Tested by DVGW.
- Sound isolation tested according to DIN 4109 and DIN 52218.

Options

- Soldered joints for copper pipes.

Accessories

- Pressure gauge 0-10 bar, body with a diameter of 50 mm, connection pin G 1/4" at the rear end (VM 7681MANOMETER).

Materials

DN	15	20	25	32	40	50
Body in red brass DIN EN CC491K	•	•	•	•	•	•
Screw joints in brass CW614N	•	•	•	•	•	•
Spring bonnet in red brass CW614N	•	•	•	•	•	•
Pressure spring in spring steel DIN EN 1.1200	•	•	•	•	•	•
Strainer in stainless steel DIN EN 1.4301	•	•	•	•	•	•
Diaphragm in high-quality plastic with insert of fabric	•	•	•	•	•	•
Sealings in perbunan	•	•	•	•	•	•

(* = standard)

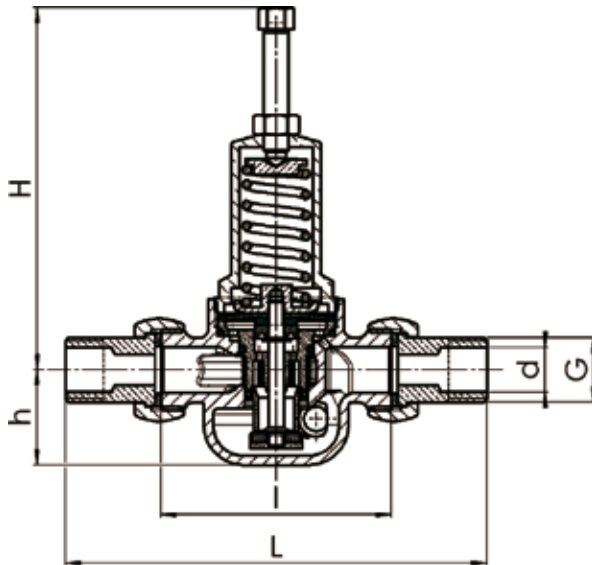
Technical Data

DN	15	20	25	32	40	50
Pressure rating PN 25	•	•	•	•	•	•
Primary pressure 25 bar	•	•	•	•	•	•
Secondary pressure 1-7 bar	•	•	•	•	•	•
Necessary difference primary pressure - secondary pressure at least 0,2 bar	•	•	•	•	•	•
Temperature max 95°C	•	•	•	•	•	•

(* = standard)

Pressure Reducing Valve

Dimensional Drawing



Dimensional Data (mm) and Weight

DN	15	20	25	32	40	50
L	135	160	178	186	226	260
l	75	92	98	98	128	148
H	110	110	150	160	190	265
h	30	42	46	46	52	75
d	15	22	28	35	42	54
G (inch)	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Weight (kg)	0,8	1,3	1,7	1,9	3,6	6,7

Determination of size and capacity

By the help of Diagram 1, the necessary diameter (DN) can be determined for a required flow rate V (m³/h).

Flow speed in water = 1-2 m/s

Flow speed in compressed air = 10-20 m/s

For gaseous media the flow rate V always should be stated in industrial m³/h. If the flow rate is given in normal cubic meters, these normal cubic meters should be converted into industrial cubic meters before using the diagram.

$$V \text{ (m}^3\text{/h)} = \frac{V_{\text{norm.}} \text{ (Nm}^3\text{/h)}}{P_{\text{absol.}} \text{ (bar)}} = \frac{V_{\text{norm.}}}{P_g + 1}$$

Industrial cubic meters refer to the pressure condition of the medium behind the pressure reducer.

Markings

The valve is marked with DN, producer and flow direction arrow.

Mounting

Optional.

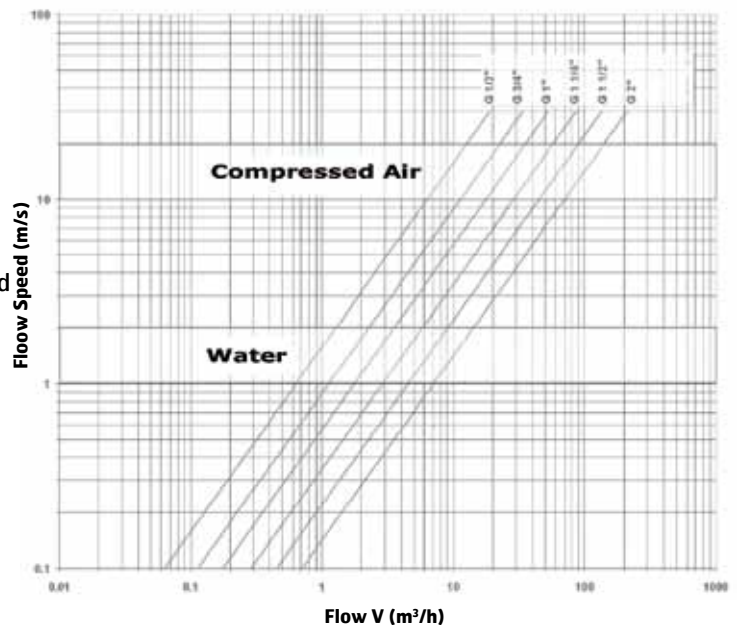
Pay attention to the flow direction arrow.

The spring must be relaxed.

Installation

Please install the pressure reducer in the direction of the arrow. The spring must be relaxed before changing the setting. With no pressure (no consumption) please turn the screw to the right until the pressure gauge indicated the required end pressure. When adjusting please consider that the end pressure adjusted while there is no consumption, due to loss by friction will drop a bit more when water is drawn.

Diagram 1



Order Number

DN	Art. No	RSK No
15	7681015	508 4001
20	7681020	508 4002
25	7681025	508 4003
32	7681032	508 4004
40	7681040	508 4005
50	7681050	508 4006