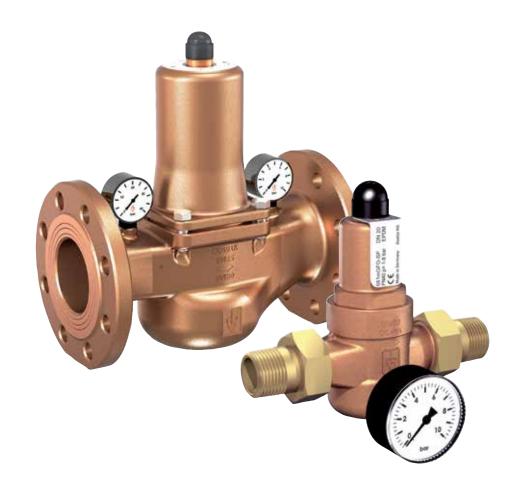


Pressoreduct HP



Pressure reducer valves

Pressure protection on the supply side in domestic, commercial and industrial sytems DN15 – DN100



Pressoreduct HP

Pressure reducers are used in piping systems where, despite varying pressures on the inlet side, a certain pressure must not be exceeded on the outlet side. One manometer is included with the threaded version.



Technical description

Application:

Potable water supply according to DIN 1988

Process water supply in industrial and building technology

Snow-making equipment

Fire-fighting equipment and sprinkler systems

Shipbuilding industry and offshore plants

Functions:

Protection against extreme supply pressures.

Dimensions:

DN 15 - DN 100

Pressure:

SP Standard version
Inlet pressure:
DN 15 - 50 (PN40) up to 40 bar,
DN 65 - 100 (PN16) up to 16 bar.
Outlet pressure:
1 to 8 bar
High and low-pressure (HP and LP)
versions available on request.

Temperature:

Max. admissible temperature, TS: 120 $^{\circ}$ C Min. admissible temperature, TSmin: -20 $^{\circ}$ C

Media:

For water, neutral and non-sticking liquids, compressed air and neutral gases; optionally with FPM elastomere seals for non-neutral media i.e. oils, fuels, oil-laden compressed air, etc. Not suitable with steam.

Material:

Body: Gunmetal CC499K. Stainless steel version available on request. Internal parts: Gunmetal CC499K,

Stainless Steel 1.4404

Spring: Spring steel with anti-rust

protection 1.1200 Seals: EPDM

Strainer: Stainless Steel 1.4404. Mesh size DN 15 to DN 32 0,6 mm

DN 40 and up 0,75 mm

Approvals:

Constructed according to DIN EN 1567, DIN 1988, DIN EN ISO 3822 and PED 2014/68/EU.

DIN-DVGW type examination (up to 80°C) Type approval ACS

Type approval WRAS (up to 85°C) TR ZU 032/2013 - TR ZU 010/2011

Marking:

DN, material, and flow direction arrow. Label with technical specification, place of origin and CE.

Warranty:

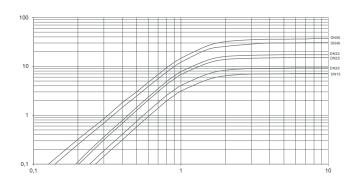
2-year warranty

Dimensioning

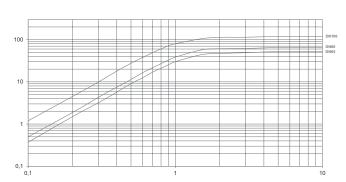
Dimensioning by pressure loss on the outlet pressure side

Flow chart water

DN 15 - 50 Flow rate V in [m³/h]



DN 65 - 100 Flow rate V in [m³/h]



Pressure drop delta p [bar]

Pressure drop delta p [bar]

Dimensioning by flow velocity

For liquids:

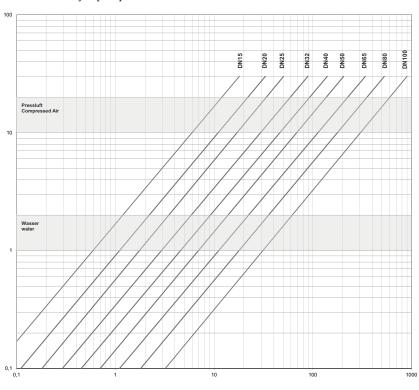
Using this chart you can determine the nominal diameter (DN) for a given flow volume V (m³/h).

According to DVGW-guidelines (DIN 1988) a flow velocity of 2 m/s in domestic water supply systems should not be exceeded.

$$V\left(m^3/h\right) = \frac{V_{\text{Norm }}\left(Nm^3/h\right)}{p_{\text{absolut }}\left(bar\right)} = \frac{V_{\text{Norm}}}{p_{\text{U}}+1}$$

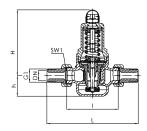
Actual cubic meter values are based on the prevailing pressure of the medium on the outlet side of the pressure reducer





Flow volume V [m3/h]

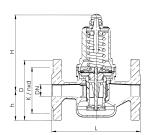
Articles



Male threads

Inlet pressure 40 bar Outlet pressure 1-8 bar

| DN | G1 | L | I | h | Н | m [kg] | SW1 | Coefficient of flow K _{vs} ** m³/h | EAN | Article No |
|----|-------|-----|-----|----|-----|-----------|-----|--|-----|--------------|
| 15 | 1/2 | 142 | 80 | 33 | 102 | 1,2 | 30 | 3 | | 301052-00400 |
| 20 | 3/4 | 158 | 90 | 33 | 102 | 1,3 | 37 | 3,5 | | 301052-00500 |
| 25 | 1 | 180 | 100 | 45 | 130 | 2,4 | 46 | 6,7 | | 301052-00600 |
| 32 | 1 1/4 | 193 | 105 | 45 | 130 | 2,6 | 52 | 7,6 | | 301052-00700 |
| 40 | 1 1/2 | 226 | 130 | 70 | 165 | 5,5 | 65 | 12,5 | | 301052-00800 |
| 50 | 2 | 252 | 140 | 70 | 165 | 6,0 | 75 | 15 | | 301052-00900 |
| | | | | | | | | | | |



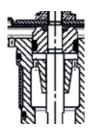
Flanged

Inlet pressure SP, HP up to 16 bar Outlet pressure 1-8 bar

| DN | D | L | m [kg] | h | Н | K/nxd | Coefficient of flow K _{vs} ** m3/h | EAN | Article No |
|-----|-----|-----|-----------|-----|-----|-------------|---|-----|--------------|
| 65 | 185 | 290 | 20 | 89 | 235 | 145 / 4xM16 | 25 | | 301052-01000 |
| 80 | 200 | 310 | 22 | 96 | 235 | 160 / 8xM16 | 26 | | 301052-01100 |
| 100 | 200 | 350 | 40 | 102 | 320 | 180 / 8xM16 | 80 | | 301052-01200 |

^{*)} Inlet DIN EN 10226

Accessories



Valve insert

| DN | Article No. |
|-----|--------------|
| 65 | 301052-01010 |
| 80 | 301052-01110 |
| 100 | 301052-01210 |



Manometer

Display range 0-10 (0-25) bar, with green marking indicating working pressure range.

| DN | Pressure Range | Article No. |
|-------|----------------|--------------|
| 15-50 | 0-10 bar | 301052-00420 |
| 65/80 | 0-25 bar | 301052-01020 |
| 100 | 0-25 bar | 301052-01220 |



 $[\]star\star$) The K_{vs} value was determined according to DIN EN 60534-2-3. Instructions on how to determine size and capcity are to be found in the graphs.