

# PV 711

## Pressure Reducing Valve



The PV711 pressure reducing valve can ensure the stability of the pressure behind the valve and balance the pressure pulsation. Directly controlled by the medium, the primary pressure is used to reduce the working pressure of the system, and the control of the working pressure is constant. It has stable and low vibration control characteristics, and has good repeatability of regulating pressure. This product cannot be used as a standard safety feature for pressure vessels.

### Easy installation and maintenance

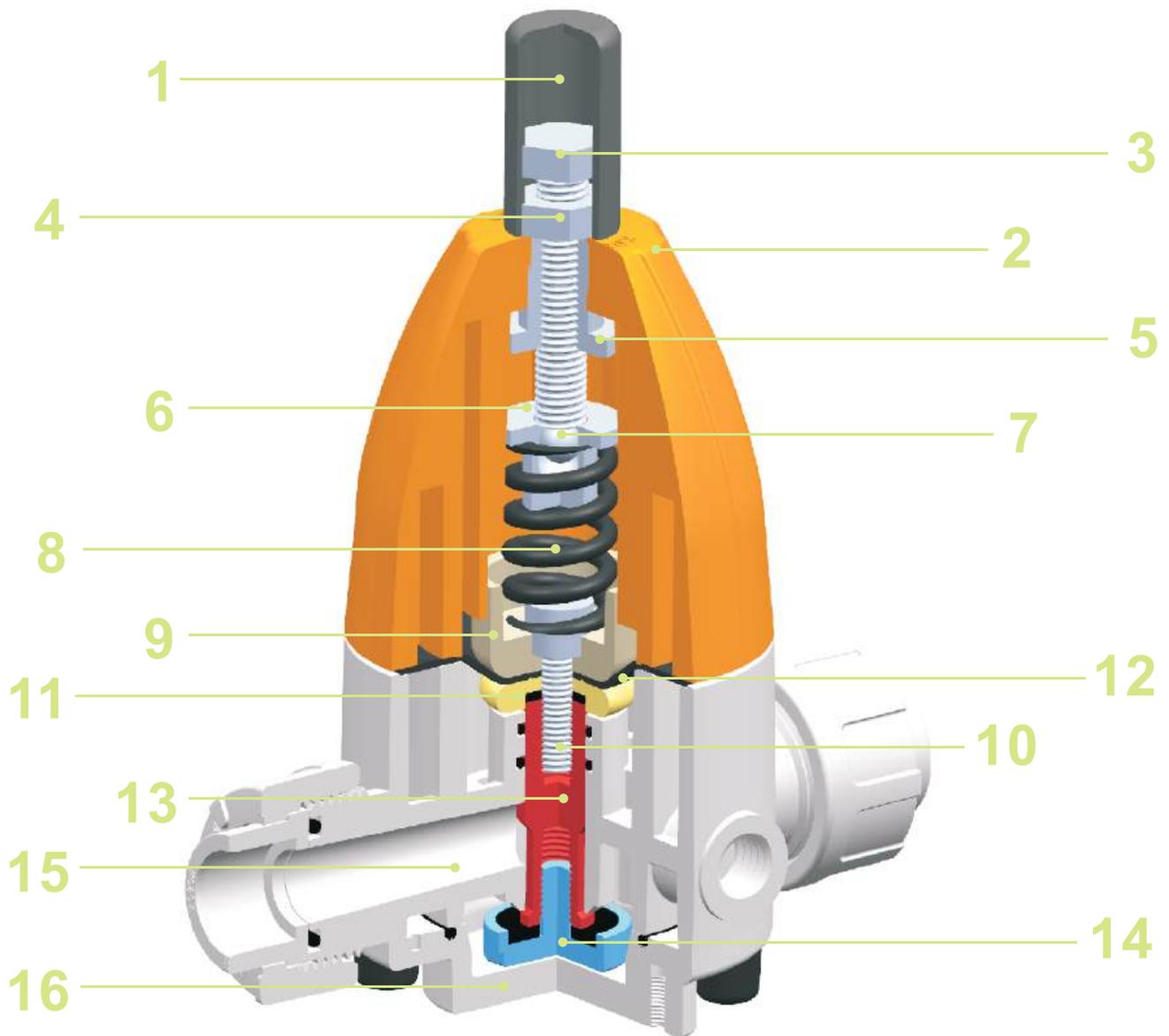
- \* All-plastic appearance structure, beautiful and corrosion resistant
- \* Easy to install, no maintenance
- \* Connectors comply with international DIN8063 standard
- \* The pressure can be adjusted at any time, including during work

### High safety performance

- \* Withstand pressure up to 10 bar
- \* Can effectively balance the pressure pulsation, to ensure that the outlet pressure is constant
- \* The instrument interface thread is embedded in stainless steel to adapt to various installation strengths
- \* Reinforced PTFE rubber coated diaphragm for a higher pressure guarantee

### Performance feature

- \* Pressure setting 1... 9 bar
- \* Maximum and minimum secondary pressure difference  $\pm 0.2$  bar
- \* Lag pressure 0.1... 0.4 bar
- \* Gauges and sensors range 2.5 bar, 4 bar, 6 bar, 10 bar



**1** Protective cap

**2** Mechanism shell

**3** Adjusting screw

**4** Limit nut

**5** Lead screw nut

**6** Spring base

**7** Balance ball

**8** Regulating spring

**9** Underspring base

**10** Piston connecting rod

**11** Diaphragm block

**12** diaphragm

**13** piston

**14** Piston end barrel

**15** Valve body

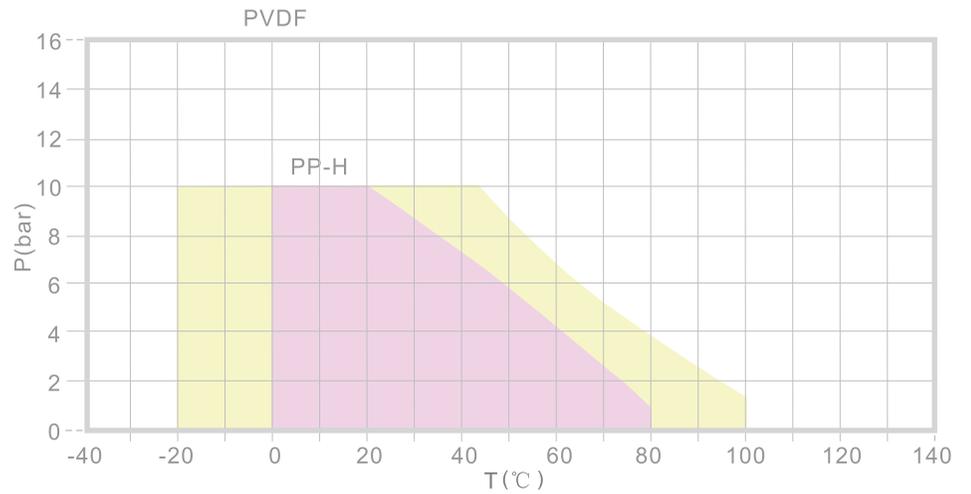
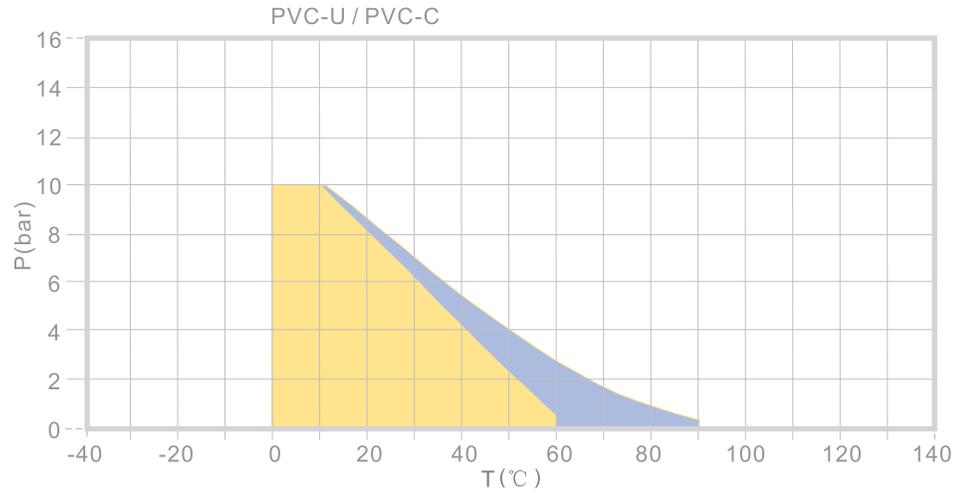
**16** Valve body bottom cover

# + Technical characteristics

## Pressure temperature curve

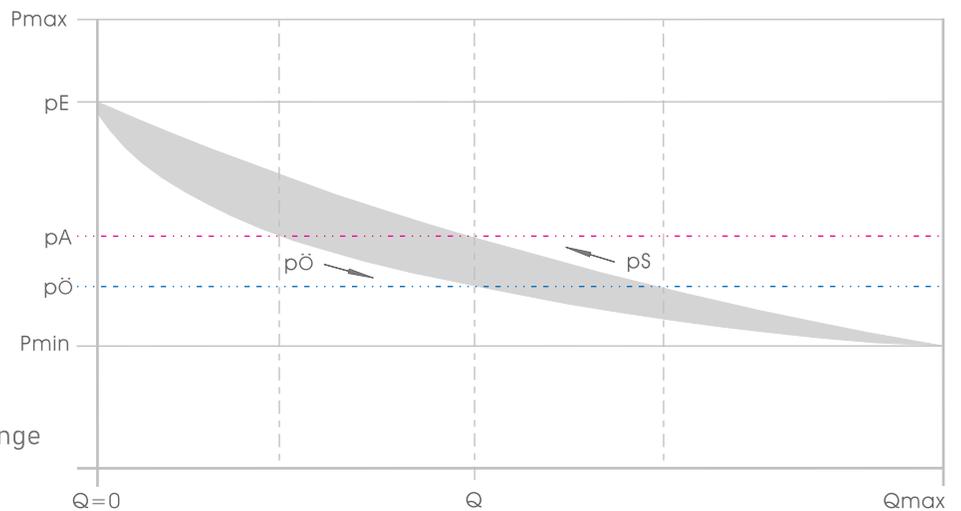
All data based on water for consider -ring 25 years safe life time

Other liquids request to reduce the temperature and pressure accordingly



## Operating characteristics

- Pmax Maximum pressure
- Pmin Minimum pressure
- pE Set pressure
- pA Working pressure
- pÖ Opening pressure
- pS Closing pressure
- pÖ - pS Lag pressure
- pA - pE Pressure drop of flow change

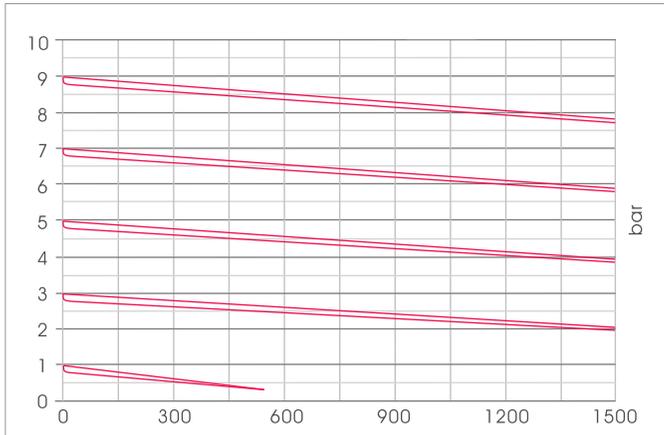


# Working pressure and relative flow rate

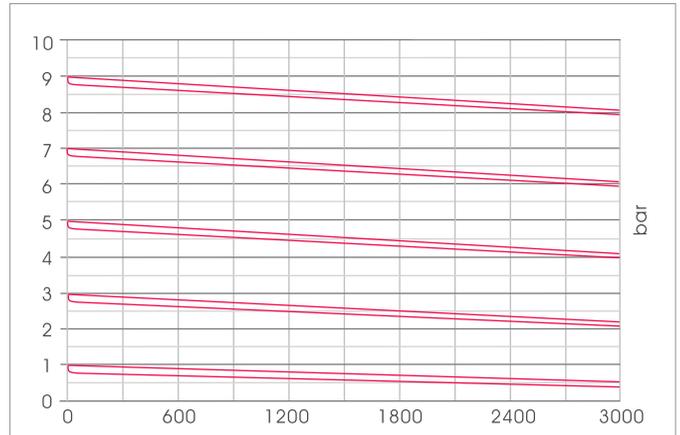
The curve shows the data of pressure change with flow rate. The starting point of the curve is the set pressure at the flow rate  $Q = 0$  l/Min.

Outlet pressure: bar

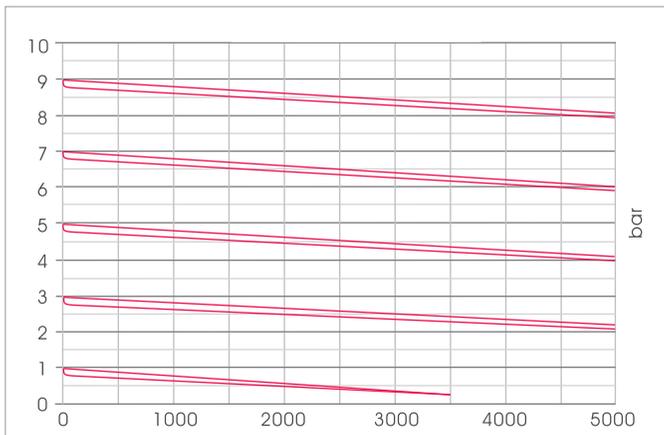
**DN 15**



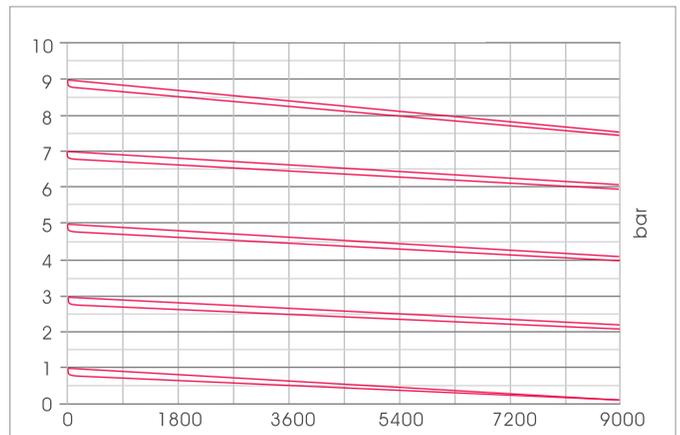
**DN 20**



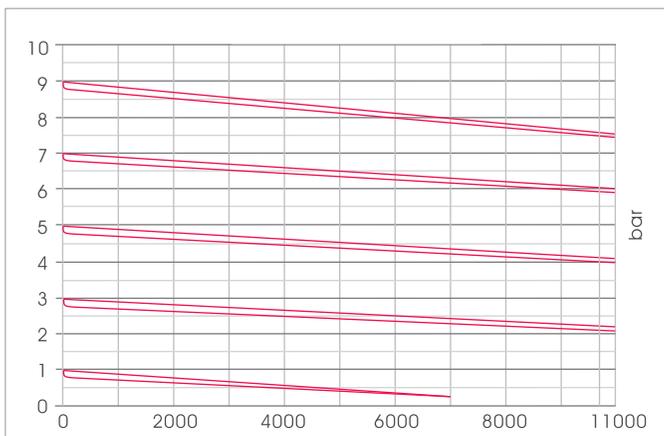
**DN 25**



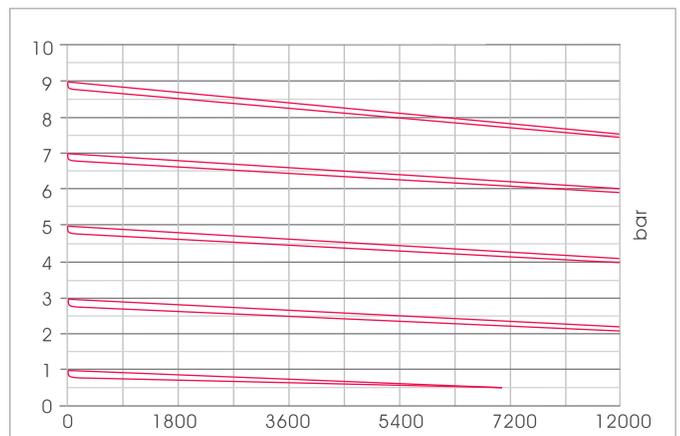
**DN 32**



**DN 40**



**DN 50**

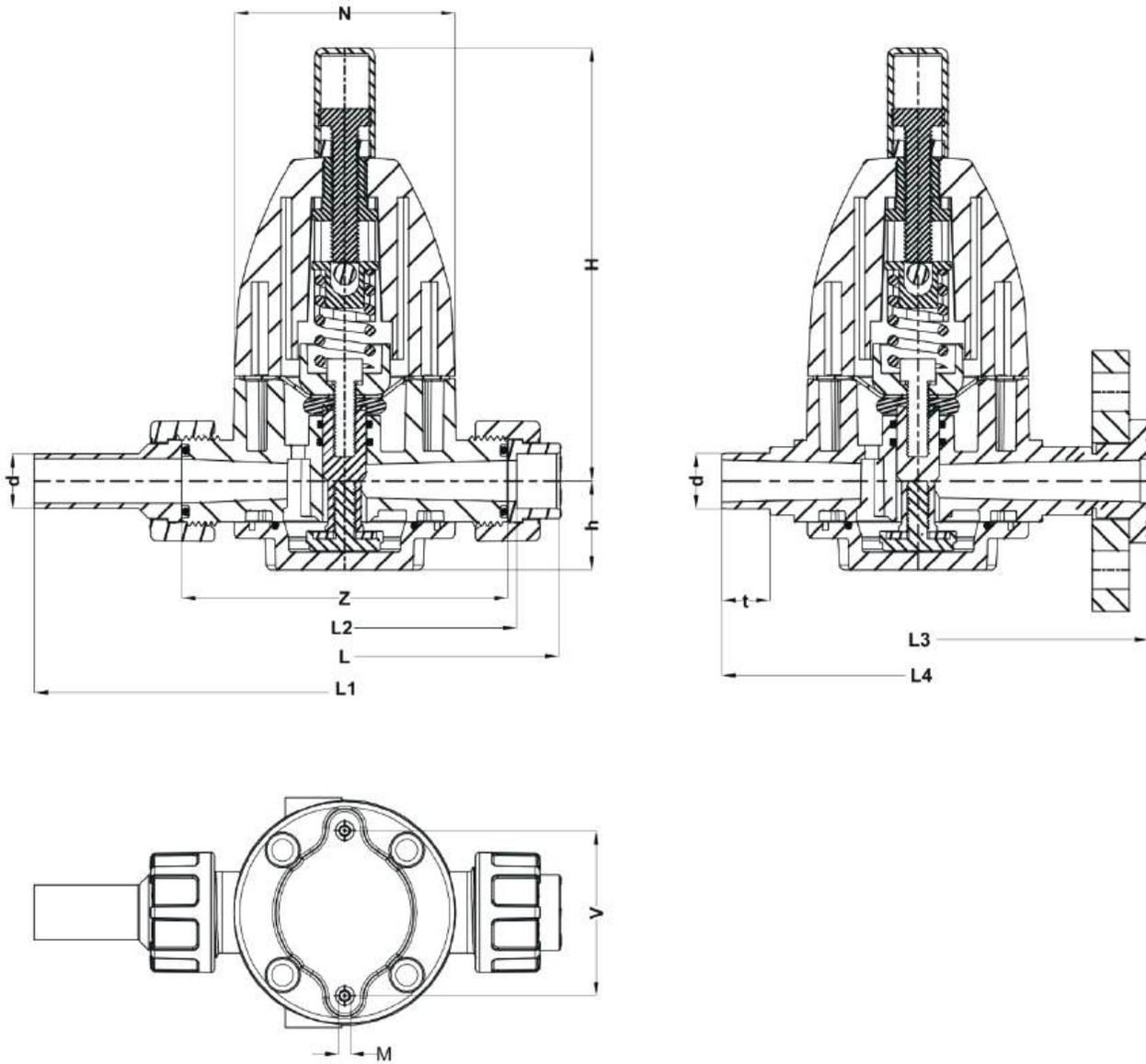


## + Order code

PV 711 Pressure reducing valve

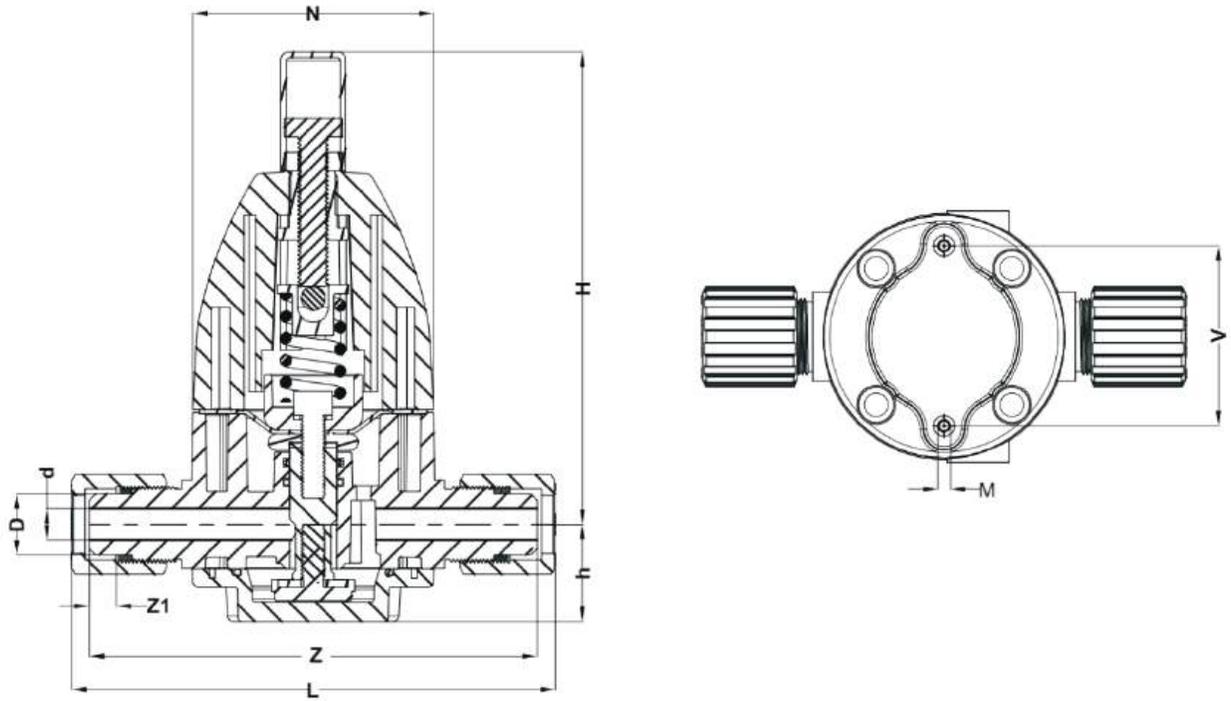
|                            | <input type="checkbox"/> |
|----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <b>Product series</b>      | 7                        | 1                        | 1                        |                          |                          |                          |                          |                          |                          |                          |                          |
| <b>Valve body material</b> |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| PVC-U                      |                          |                          |                          | 0                        |                          |                          |                          |                          |                          |                          |                          |
| PVC-C                      |                          |                          |                          | 2                        |                          |                          |                          |                          |                          |                          |                          |
| PP                         |                          |                          |                          | 4                        |                          |                          |                          |                          |                          |                          |                          |
| PP-N                       |                          |                          |                          | 5                        |                          |                          |                          |                          |                          |                          |                          |
| PVDF                       |                          |                          |                          | 6                        |                          |                          |                          |                          |                          |                          |                          |
| Ss316                      |                          |                          |                          | 9                        |                          |                          |                          |                          |                          |                          |                          |
| <b>Sealing material</b>    |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| PTFE-EPDM                  |                          |                          |                          |                          | 5                        |                          |                          |                          |                          |                          |                          |
| PTFE-FPM                   |                          |                          |                          |                          | 6                        |                          |                          |                          |                          |                          |                          |
| PTFE                       |                          |                          |                          |                          | 7                        |                          |                          |                          |                          |                          |                          |
| <b>Control mode</b>        |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| Manual                     |                          |                          |                          |                          |                          | 0                        |                          |                          |                          |                          |                          |
| <b>Connection mode</b>     |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| Union Socket-end           |                          |                          |                          |                          |                          |                          | 1                        |                          |                          |                          |                          |
| Union Spigot Butt-IR       |                          |                          |                          |                          |                          |                          | 3                        |                          |                          |                          |                          |
| Spigot fix                 |                          |                          |                          |                          |                          |                          | 5                        |                          |                          |                          |                          |
| Flange                     |                          |                          |                          |                          |                          |                          | 7                        |                          |                          |                          |                          |
| Thread                     |                          |                          |                          |                          |                          |                          | 9                        |                          |                          |                          |                          |
| Flare LINK                 |                          |                          |                          |                          |                          |                          | 0                        |                          |                          |                          |                          |
| <b>Connection standard</b> |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| DIN                        |                          |                          |                          |                          |                          |                          |                          | 0                        |                          |                          |                          |
| JIS                        |                          |                          |                          |                          |                          |                          |                          | 2                        |                          |                          |                          |
| ANSI                       |                          |                          |                          |                          |                          |                          |                          | 4                        |                          |                          |                          |
| BSP/G                      |                          |                          |                          |                          |                          |                          |                          | 6                        |                          |                          |                          |
| <b>Interface size</b>      |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |
| d16, DN10                  |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          | 16                       |
| d20, DN15                  |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          | 20                       |
| d25, DN20                  |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          | 25                       |
| d32, DN25                  |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          | 32                       |
| d40, DN32                  |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          | 40                       |
| d50, DN40                  |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          | 50                       |
| d63, DN50                  |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          | 63                       |
| 1/2"                       |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          | 12                       |
| 3/4"                       |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          | 19                       |
| A                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |

+ Size



Unit: mm

| d  | DN | N   | H   | h  | L   | L1  | L2  | L3  | L4  | t  | V  | M |
|----|----|-----|-----|----|-----|-----|-----|-----|-----|----|----|---|
| 16 | 10 | 80  | 158 | 33 | 120 | -   | 126 | -   | 144 | 14 | 61 | 5 |
| 20 | 15 | 80  | 158 | 33 | 120 | 228 | 126 | 150 | 144 | 16 | 61 | 5 |
| 25 | 20 | 107 | 183 | 43 | 150 | 264 | 156 | 180 | 174 | 19 | 79 | 6 |
| 32 | 25 | 107 | 183 | 43 | 150 | 270 | 156 | 180 | 174 | 22 | 79 | 6 |
| 40 | 32 | 146 |     |    | 204 | 331 | 211 | 230 | 224 | 26 |    |   |
| 50 | 40 | 146 |     |    | 204 | 338 | 211 | 230 | 224 | 31 |    |   |
| 63 | 50 | 146 |     |    | 204 | 343 | 211 | 250 | 244 | 38 |    |   |



Unit: mm

| Inch | D    | d    | N  | H   | h  | L     | Z     | Z1 | t  | V  | M |
|------|------|------|----|-----|----|-------|-------|----|----|----|---|
| 1/2  | 13,9 | 9,5  | 80 | 158 | 33 | 98,5  | 92,5  | 15 | 14 | 61 | 5 |
| 3/4  | 20,5 | 15,9 | 80 | 158 | 33 | 121,0 | 114,2 | 15 | 16 | 61 | 5 |



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