

DRVN



Patented diaphragm pressure reducing valve with compensated seat, outlet pressure adjustable with a knob and external graduated scale for easy reading of set pressure. Complete with unions. Body of CW617N sand-blasted stamped brass. Stainless steel filter cartridge. Pressure gauge connection on both sides: G1/4". Maximum inlet pressure: 25 bar. Adjustable downstream pressure: 1,5 and 6 bar. Max. operating temperature: 30°C. Can be used for water, air and neutral gases. Noise < 20 dB - Class 1 according with **DIN 52218**
Compliant with DVGW. Metallic materials in accordance with **UBA LIST.**

Type	Part no.	DN	Weight (Kg)
DRVN	0502515	1/2" MM	0,6
DRVN	0502520	3/4" MM	0,9
DRVN	0502525	1" MM	1,3
DRVN	0502532	1.1/4" MM	2,1
DRVN	0502540	1.1/2" MM	3,4
DRVN	0502550	2" MM	4,2

DRVMN



Like DRVN but with **M3A-ABS50 Series** pressure gauge (Scale 0÷6 bar).

Type	Part no.	DN	Weight (Kg)
DRVMN	0502615	1/2" MM	0,7
DRVMN	0502620	3/4" MM	1,0
DRVMN	0502625	1" MM	1,4
DRVMN	0502632	1.1/4" MM	2,2
DRVMN	0502640	1.1/2" MM	3,5
DRVMN	0502650	2" MM	4,3

Technical features: DRV and DRVN

Maximum upstream pressure	25 bar
Downstream pressure (outlet)	1,5÷6 bar
Connections	M/M tailpiece
Downstream pressure adjustment (screw 4)	Clockwise rotation: increases pressure Anticlockwise rotation: decreases pressure
Downstream pressure gauge (DRV-M only)	Pressure gauge Ø50 scale 0÷6 bar
Maximum operating temperature DRVN	30°C
Maximum operating temperature DRV	60°C (30°C DVGW)

Design features: DRV and DRVN

Body	Sand blasted CW617N
Cap	Sand-blasted/(DRV) CW617N, Reinforced polymer (DRVN)
Plug	Brass CW617N
Inlet/outlet connections	Brass CW617N
Diaphragm	NBR reinforced with nylon fabric compliant with KTW and W270 - KTW
Seal and O-Ring	NBR - KTW - W270
Spring	Galvanized steel
Adjusting screw and lock nut	Brass CW617N
Filters	Stainless steel

Application

Pressure reducing valves are used:

- **In sanitary systems**

- to keep the pressure of the water constant in the distribution network downstream of the valve
- to avoid excessive withdrawals of water by controlling the pressure at the tap
- to keep the water pressure constantly below the maximum value allowed

- **In compressed air systems**

- to keep the pressure constant in the network, irrespective of the oscillations in the pressure supplied by the compressors

- **Downstream of storage tanks or cylinders**

- to reduce and stabilize the pressure in the network, which is normally lower

The pressure reducing valves are used not only for water but also for air and non-aggressive gases.

Operation

The **DRV, DRVM, DRVN, DRVMN Series** pressure reducing valves are compensated seat type. This means that as the inlet pressure acts on the two openings A and B (see Fig.1) having the same cross section, it is compensated and does not therefore result in any force on the pin-plug system when the opening angle of the valve is varied. The outlet pressure acts on the diaphragm and thus also on the pin-plug system, which is thus subjected to two contrasting forces: the force exerted by the outlet pressure, which tends to close the plug and the force exerted by the spring, which tends to open it. As a result, the compensated seat valve has an outlet pressure virtually insensitive to variations in pressure upstream.

DRV

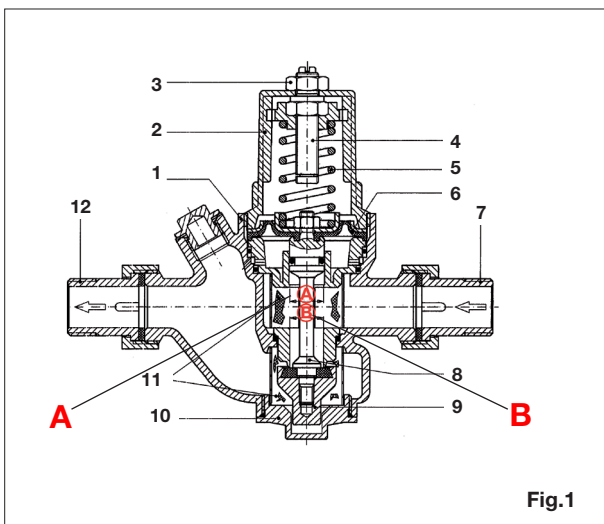


Fig.1

Features:

- | | |
|-----------------|----------------------|
| 1 Body | 7 Inlet connection |
| 2 Cap | 8 Pin |
| 3 Lock nut | 9 Plug |
| 4 Setting screw | 10 Guide bushing |
| 5 Spring | 11 Filters |
| 6 Diaphragm | 12 Outlet connection |

DRVN

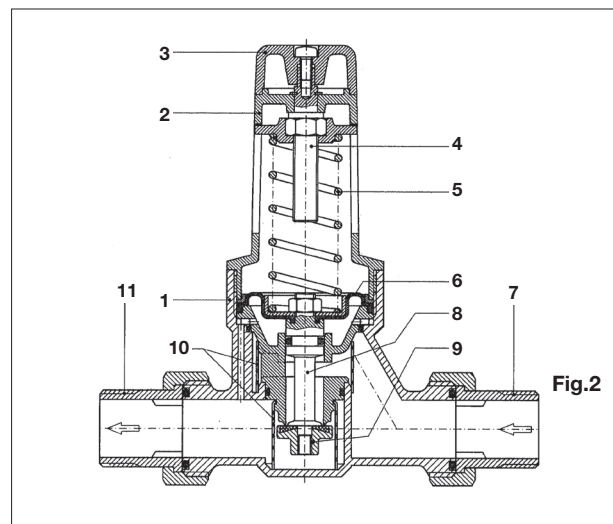


Fig.2

Features:

- | | |
|-------------------|----------------------|
| 1 Body | 7 Inlet connection |
| 2 Cap | 8 Pin |
| 3 Adjustment knob | 9 Plug |
| 4 Setting screw | 10 Filters |
| 5 Spring | 11 Outlet connection |
| 6 Diaphragm | |