

Reducing valve, stainless steel, DN 25-50, PN 64, female thread.



General

- Pressure reducing valve designed to tolerate high pressure and low flow rate conditions.
- Provided with two taps both upstream and downstream for pressure measurements.
- Spring loaded.
- Adopts a piston technology and is provided with a compensation chamber. This particular design grant this valve with a perfect balance of the upstream forces, which are acting both on the piston and the shutter featuring the same surface.
- Able to maintain the preset pressure even with no flow rate.

Options

- Different materials.
- Other connection types.

Cavitation Table

See Figure 1.

Materials

| DN | 25 | 40 | 50 |
|----------------------------------|----|----|----|
| Body in stainless steel AISI 303 | • | • | • |
| Cap in aluminium S11 | • | • | • |
| gaskets in NBR/Poliuretane | • | • | • |
| Piston in stainless steel | • | • | • |
| Sealing seat in stainless steel | • | • | • |
| Disc retainer in stainless steel | • | • | • |
| Tap in stainless steel | • | • | • |
| Nuts and bolts in steel A2 | • | • | • |

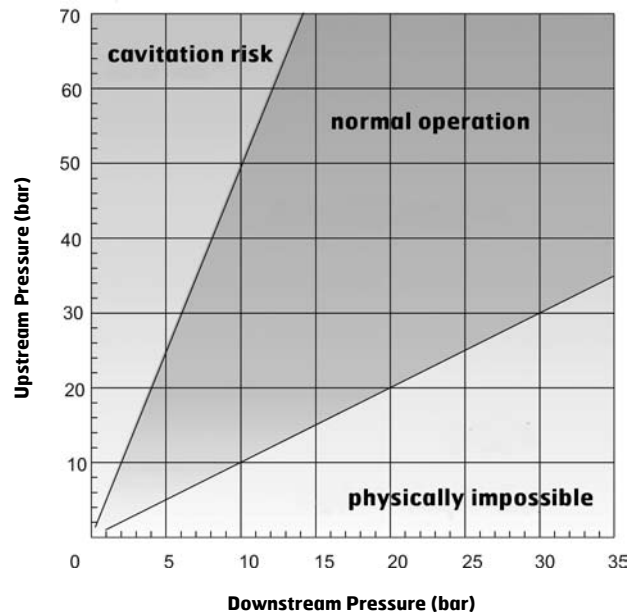
(• = standard)

Technical Data

| DN | 25 | 40 | 50 |
|-----------------------|--------------------|----|----|
| Pressure rating PN 64 | • | • | • |
| Downstream pressure | see separate table | | |
| Reduction ratio 5:1 | • | • | • |
| Temperature max 70°C | • | • | • |

(• = standard)

Figure 1



Hydraulic Characteristics

Suggested flow rates:

DN 25 = 1 l/s

DN 40 = 2 l/s

DN 50 = 3 l/s

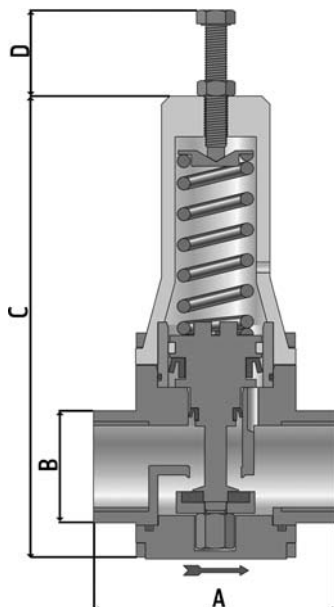
Downstream pressure range available:

DN 25 = 1-10 bar or 2-20 bar

DN 40 = 1-7 bar or 2-15 bar

DN 50 = 1,5-6 bar or 5-12 bar

Dimensional Data



Markings

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

Mounting

Before installing it is important to clean the pipes involved with the valve's functioning, in order to prevent damages of its internal components from stones or debris.

The valve can be installed both in a vertical or in a horizontal position.

It is strongly recommended to place gate valves before and after the reducer for maintenance purposes.

A safety valve must always be placed downstream of the reducer.

Maintenance

The valve is maintenance free.

It is advisable to plan an inspection at least twice a year to make sure the valve is working properly and the settings remained unchanged.

Dimensional Data (mm) and Weight

| DN | 25 | 40 | 50 |
|-------------|-----|-----|-----|
| A | 90 | 110 | 152 |
| B | 41 | 55 | 70 |
| C | 170 | 205 | 290 |
| D | 45 | 50 | 60 |
| Weight (kg) | 2,1 | 2,8 | 5,9 |

Order Number

| DN | Art. No |
|----|---------|
| 25 | 7680025 |
| 40 | 7680040 |
| 50 | 7680050 |