PRESSURE REDUCING VALVE FOR WATER

# MINISTEEL 316 - 433941.304

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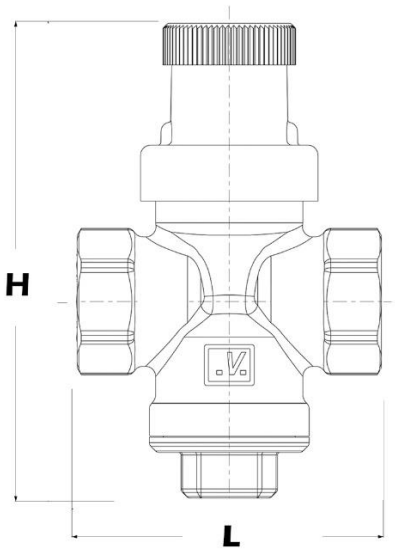
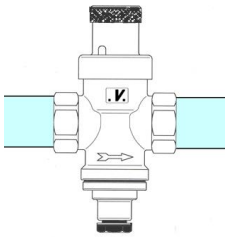
|---|
| **LEADFREE** direct acting pressure reducing valve piston operating – Patent Pending |
| Main body and components in contact with water made in AISI316 |
| PN 16 – Max inlet pressure 16 bar |
| Outlet pressure range 1 – 5,5 bar |
| Factory setting 3 bar |
| Maximum working temperature: 80° C |
| NBR O-rings |
| Designed for use with water and air |
| Threaded FF ISO 228 |
| Available sizes: FF 1/2" (DN15) |
| External sand blasted steel |

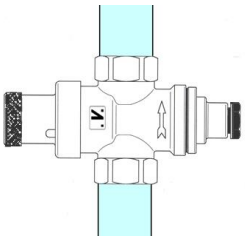
kiwa NSF/ANSI 61 **MOCA** conforme DM 174/2004

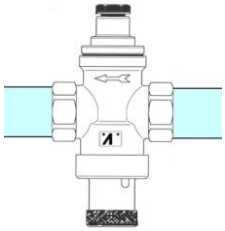



| Item N | Size | DN | H mm | L mm | Weight Gr |
|---|---|---|---|---|---|
| 102.316 | ½" | 15 | 95 | 59 | 355 |

## INSTALLATION GUIDELINES

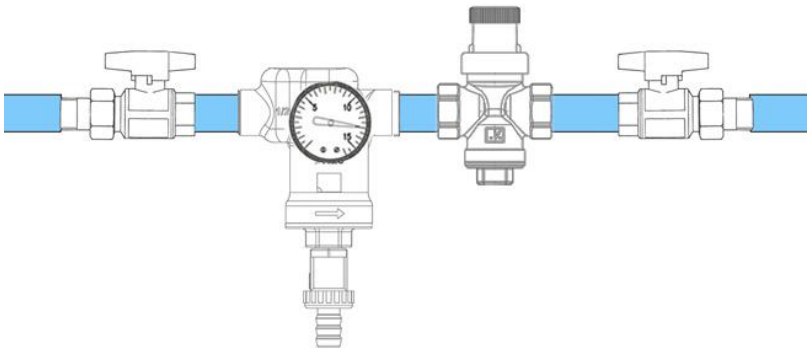






The pressure reducers MINISTEEL don't get the effects, in their functioning, of gravity force; therefore they can be installed in the plant in any position:

Pressure reducing valves can be damaged by dirty water; we suggest to install a self-cleaning filter upstream before the pressure reducer, in order to protect the valve and any other mechanism (thermostatic mixers, taps, etc.).



When there is a device which produce or store hot water or pipes are exposed to sudden changes in temperature, an increase of outlet pressure may occur; this event is due to the raise in pressure that follows the temperature rising: an expansion vessel between downstream the pressure reducing valve will avoid this problem.

All Malgorani pressure reducers are tested before being packaged; during the test they are set at the outlet pressure of 3 bars; outlet pressure can be easily adjusted once the pressure reducing valve in installed on site.

In order to modify the outlet pressure, once removed black plastic cover cap, turn the spring holder as indicated in the pictures sequence. By turning clockwise the pressure increases, while counter-clockwise the pressure decreases. A right setting has to be made while the plant outlet is closed.

**WARNING**:
Installation or any change of outlet pressure must be performed by qualified personnel.
Carefully clean pipes before installing the pressure reducer
Use the flow arrow embossed on the body for a correct installation.

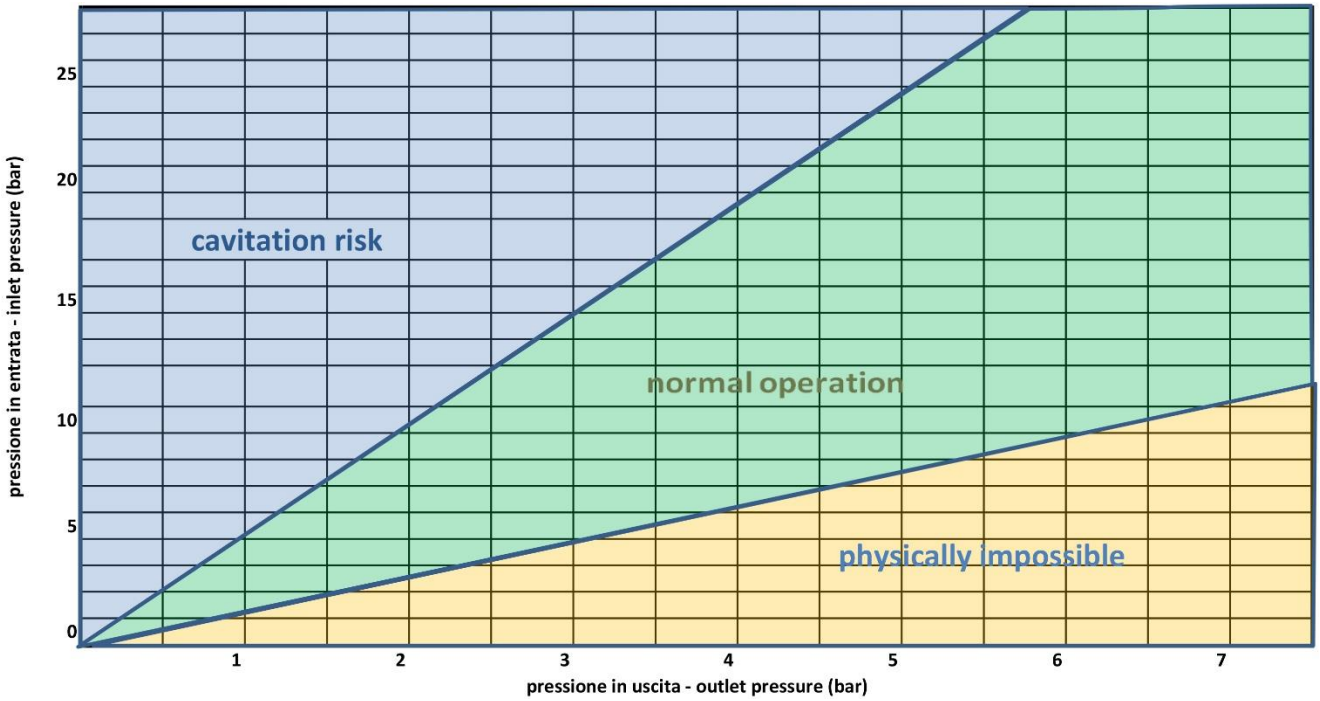
# TECHNICAL SPECIFICATIONS

## Kv: 1,1 (size ½")

For a correct sizing please use the following pressure drop chart: for best performances, with limited noise and cavitation risk, we suggest to use the pressure reducer with a pressure drop (Δp) of 1 bar or lower.


## Reduction rate: 5:1

We suggest to avoid reduction rates between inlet pressure and outlet pressure higher than 5:1 to avoid cavitation damages

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