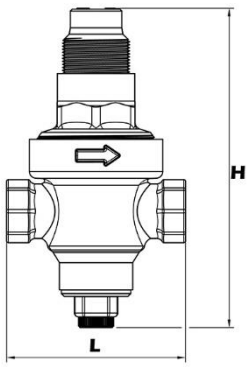
PRESSURE REDUCING VALVE FOR WATER

EUROSTAR 151 FF PN25

Direct acting pressure reducing valve EPDM membrane operating with pressure compensation system
Main body and components made in brass alloy in conformity to UBA
PN 25 – Max inlet pressure 25 bar
Outlet pressure range 1 – 6 bar
Factory setting 3 bar
Maximum working temperature: 80° C
Stainless steel seat
Stainless steel bar
NBR O-rings
Designed for use with water and air
Pressure gauge connection ¼"
Threaded FF ISO 228 – also available NPT
Available sizes: from 1/2" (DN15) to 1" (DN25)
External sand blasted brass or nickel plated



Item N	Size	DN	H mm	L mm	Weight Gr
151.12	½"	15	150	78	850
151.34	¾"	20	165	90	n/a
151.33	1"	25	170	100	n/a

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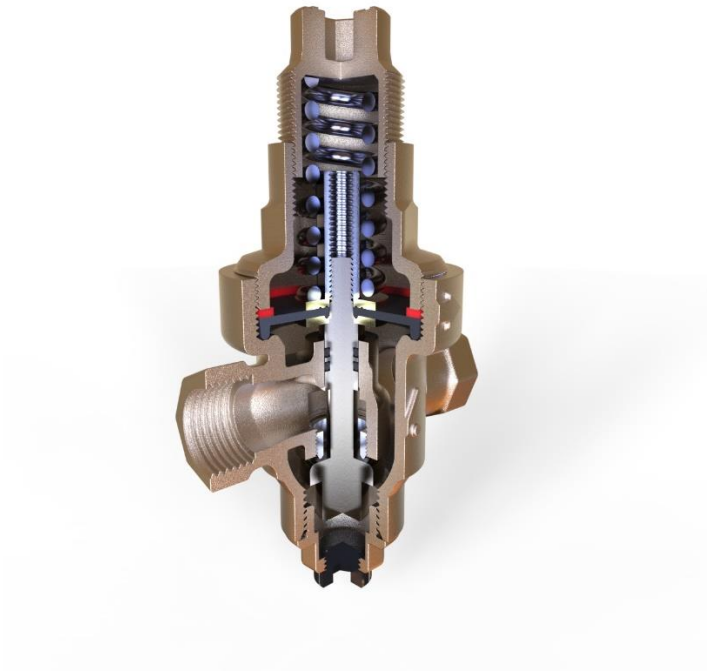
Pressure always under control.

MATERIALS



Main body: brass CB753S uni en 1982:2017

Spring: steel EN10270-1 SM galvanized

Stem and shutter: brass CW614N UNI EN 12165

Membrane:

O-rings: NBR70 sh

Seat: stainess steel AISI303 EN 10088 – 1.4305

TECHNICAL SPECIFICATIONS

Maximum inlet pressure (PN):	25 bar
Oultlet range:	1 – 6 bar
Reduction rate:	5 : 1
Factory setting:	3 bar ±0,5
Maximum operating water temperature:	80° C (peak temperature)
Minimum operating water temperature:	4° C
Storage temperature range:	-20° C to 80° C
In conformity to:	EN1567
Acoustic group:	½" Group I Lap[dB (A)] ≤ 20 EN ISO 3822
Connection norm:	ISO228-1 G½"

ACCESSORIES

Item 119.10 — Pressure gauge diam 63 range 0-10 bar radial ¼" connection

Coming soon — Item K151.12 — Recovery kit for Eurobrass ½"

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ISO 9001 BUREAU VERITAS Certification
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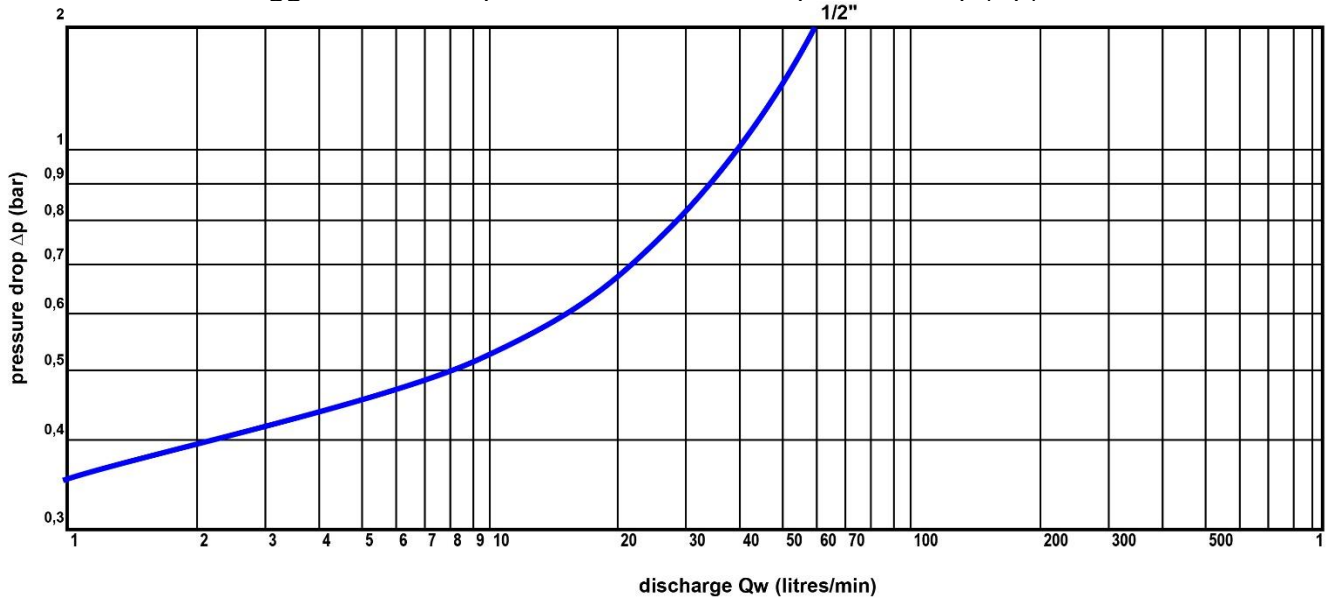
DATA & CHARTS

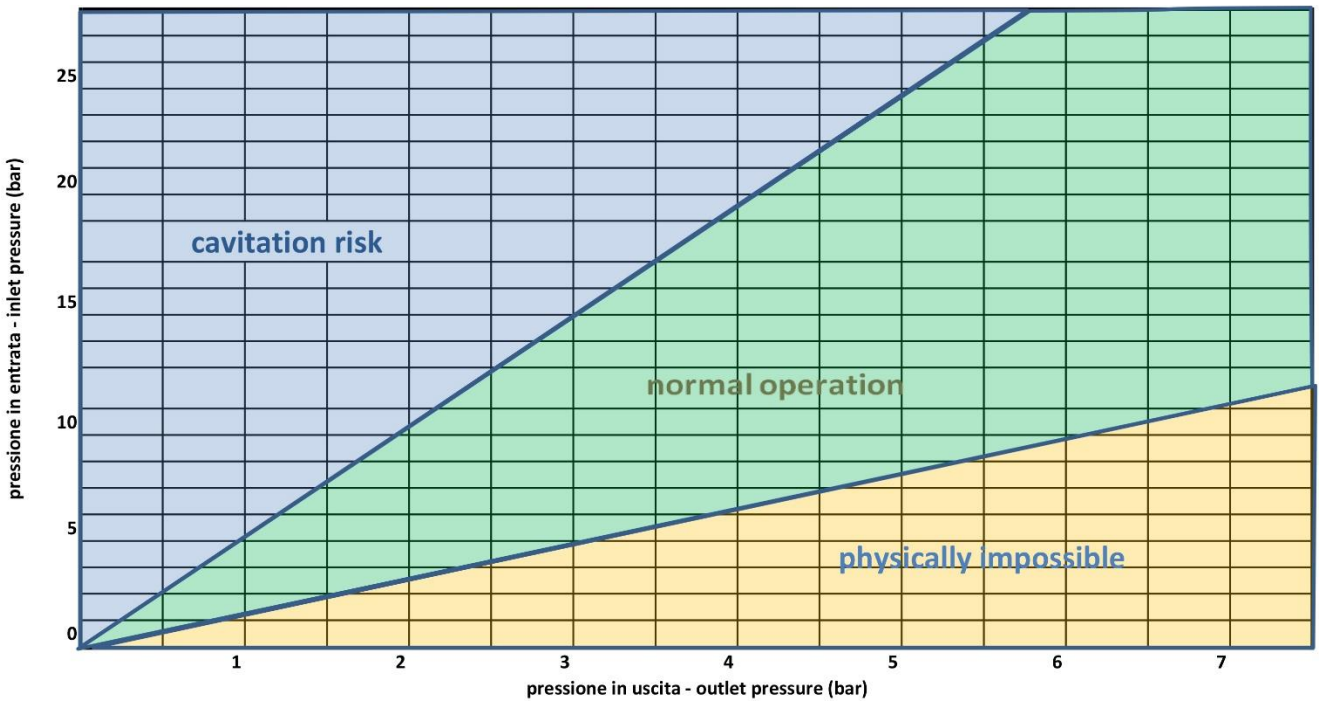
Kv: 2,4 (size ½")

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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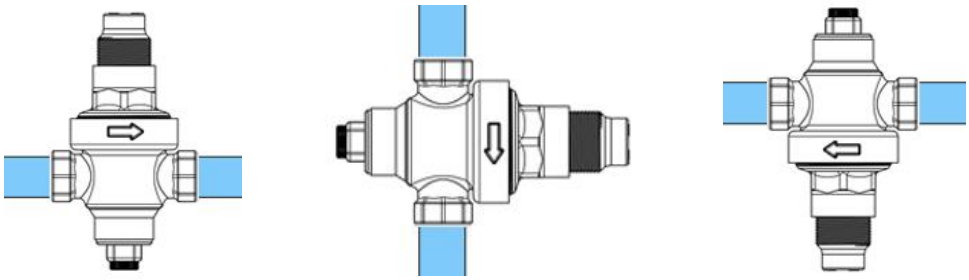
INSTALLATION GUIDELINES



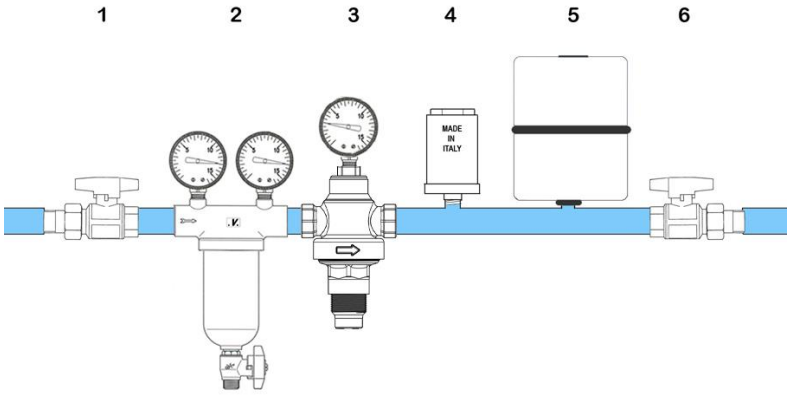
The pressure reducers EUROSTAR 151 don't get the effects, in their functioning, of gravity force; therefore they can be installed in the plant in any position:

Pressure reducing valves can be damaged by dirty water; therefore we advise 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.

We recommend always to install a Stopshock valve to prevent water hammer which would damage the inner parts of the pressure reducer and other devices in the waterworks.

Recommended installation scheme:



1 – ball valve
2 – Self-cleaning filter
3 – Pressure reducing valve
4 – Water hammer absorber
5 – Expansion tank
6 – ball valve

All EUROSTAR pressure reducer can be equipped with a pressure gauge with ¼" connection: remove the black plastic plug using a 6mm Allen key and assemble the pressure gauge with adequate sealing.

All Malgorani pressure reducers are tested before being packaged; during the final test they are pre-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 you should only loosen the black plastic fixing ring and turn the spring holder. By turning clockwise the pressure increases, while counter-clockwise the pressure decreases. A right setting should be made while the plant outlet is closed.

WARNING: Installation or any change of outlet pressure must be performed by qualified personnel.

? technical information: **contact@malgorani.it**

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