



DESCRIPTION

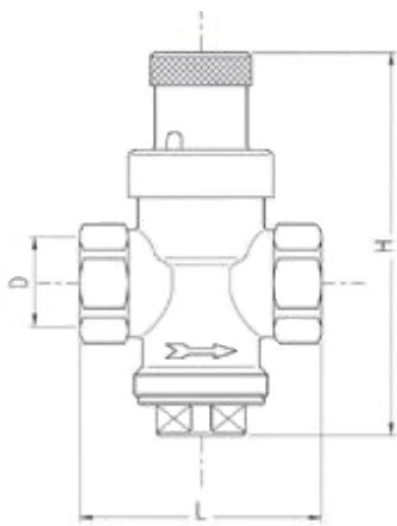
501

F x F pressure reducer with pressure compensation system. For water heater (max 80°C). Chrome plated.

Thanks to compensation chamber and the membrane-free design (no wear and tear on it), the system is stable to pressure damping and water hammer.

It is suggested to install a strainer (168/O – 170 or 51F Filterball®) upstream in order to avoid any damage to internal components of the reducer caused by impurities.

DIMENSIONS



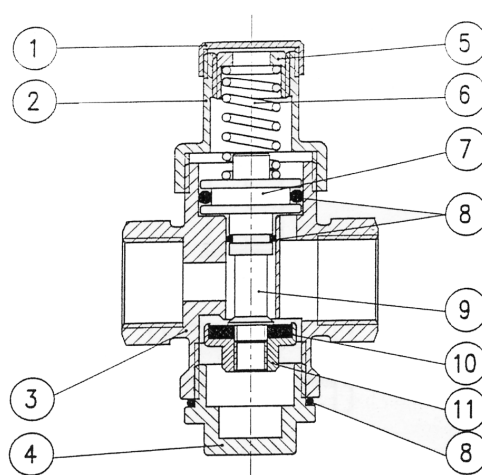
D	½"
H	93
I	10
L	60
Weight [g]	380

Dimensions in **mm**

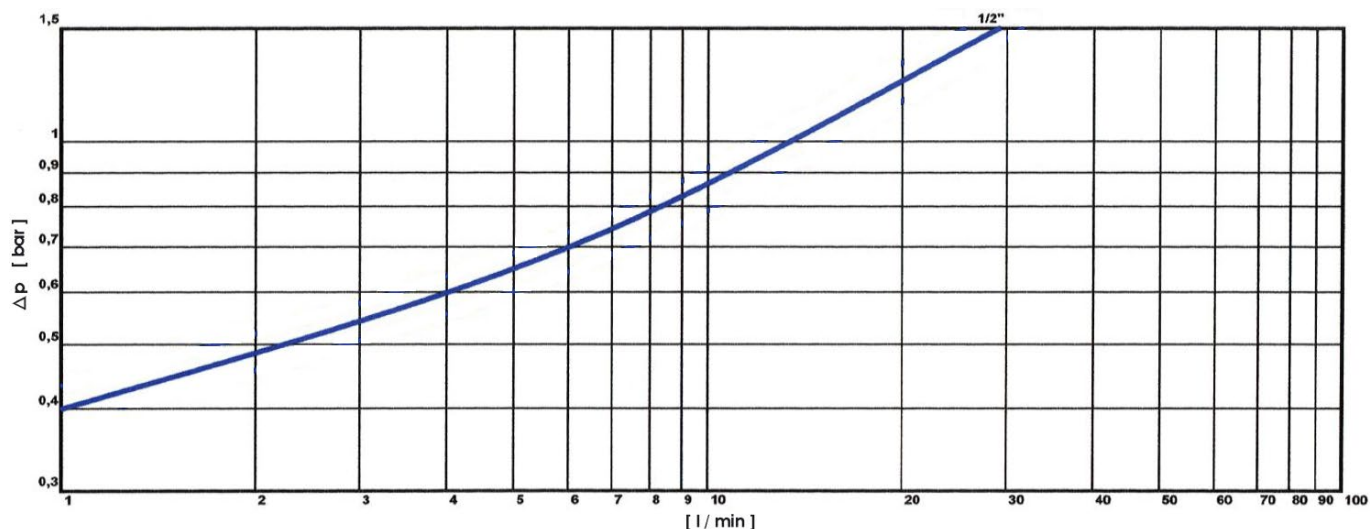
All threads are conform to ISO 228 standard

MATERIALS

- | | |
|-------------------------|-----------------------------|
| 1. Upper cap | POM |
| 2. Headwork | CW617N (EN 12165) CuZn40Pb2 |
| 3. Body | CW617N (EN 12165) CuZn40Pb2 |
| 4. Lower cap | CW617N (EN 12165) CuZn40Pb2 |
| 5. Spring holder | POM |
| 6. Spring | Stainless steel AISI 303 |
| 7. Diaphragm | CW614N (EN 12164) CuZn39Pb3 |
| 8. O-Ring | NBR |
| 9. Stem | CW614N (EN 12164) CuZn39Pb3 |
| 10. Gasket | NBR |
| 11. Shutter | CW614N (EN 12164) CuZn39Pb3 |



PRESSURE DROP DIAGRAM



D	1/2"
Suggested flow rate [m3/h]	0.6 – 0.8
Suggested flow rate [l/min]	10 – 13.3

Max upstream pressure: 15 bar

Downstream pressure: 1 bar to 4 bar

RECOMMENDED WORKING TEMPERATURE/PRESSURE LIMITS

Max suggested operative upstream pressure: 15 bar

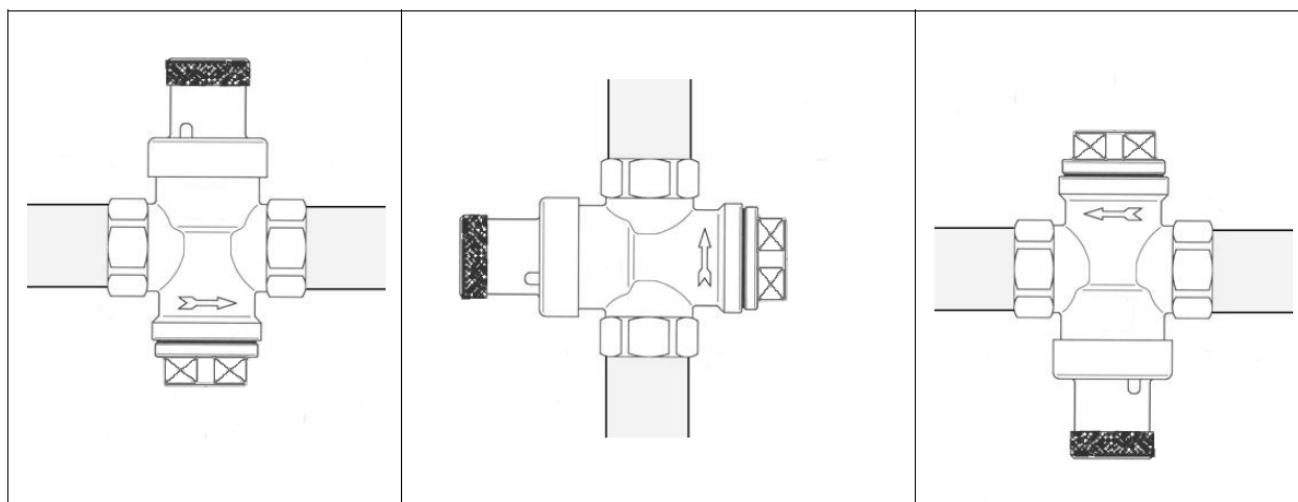
Max suggested operative downstream pressure: 4 bar

Pressure reduction ratio: 5 : 1

Max working temperature: 80°C

INSTALLATION AND COMMISSIONING

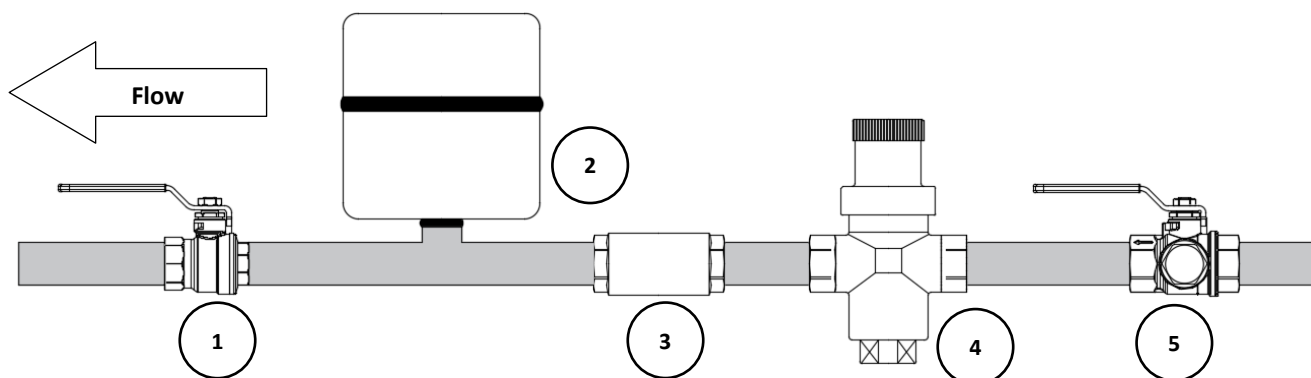
The pressure reducer **501** can be installed in every orientation (horizontal, vertical, upside down, oblique).



Please check that the flow direction is concurrent to the arrow on the reducer body. Commissioning and pressure set-up is done by rotating the plastic spring holder on the top; to do it (see pictures below), loosen and remove the plastic cap, turn the spring holder using a screwdriver (clockwise to increase outlet pressure, counter clockwise to decrease outlet pressure), place back and tighten the plastic cap. The reducer is factory set to 10 bar upstream and 3 bar downstream. The upstream pressure affects the downstream pressure only for 5 %.



To avoid over-pressure (opening of the safety valve), water hammer and water return due to volume increase of hot water (it can occur when an electric boiler, a mixer or hot water tank is installed downstream the reducer) please install a check valve and a little expansion vessel between the heat source and the pressure reducer as shown below.



1 – Isolating ballvalve (51CE)
2 – Expansion vessel
3 – Check valve (188)
4 - Pressure reducer (501)
5 – Strainer and isolating valve (51F)