DESCRIPTION

500

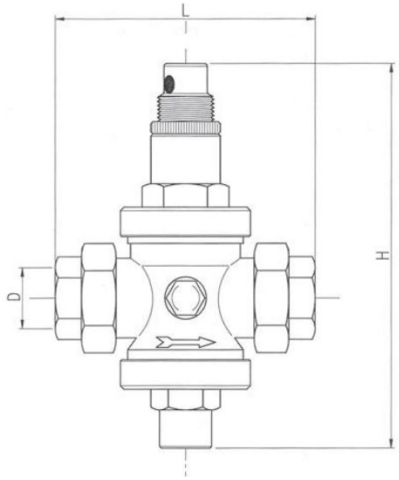
F x F union end pressure reducer with pressure compensation system. For cold water (max 50°C). Yellow finish.

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.

The pressure reducer has G¼" pressure gauge on both sides which can fit a monometer **M500P** (not included) in order to measure the pressure downstream.

DIMENSIONS



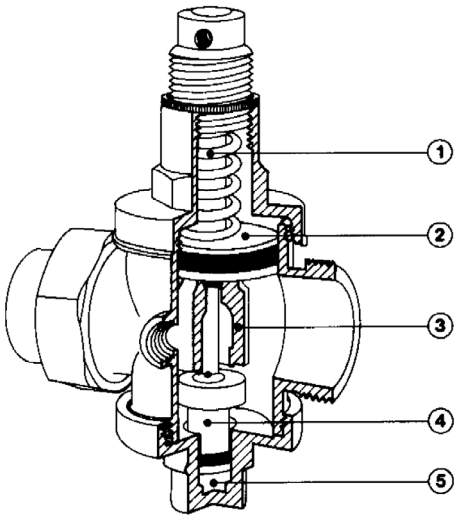
D	½"	¾"	1"	1 ¼"	1 ½"	2"
H	120	160	166	220	220	250
I	12	15	16	18	18	22
L	112	135	140	170	175	200
Weight [g]	930	1600	1850	2950	3400	5300

Dimensions in **mm**

All threads are conform to ISO 228 standard

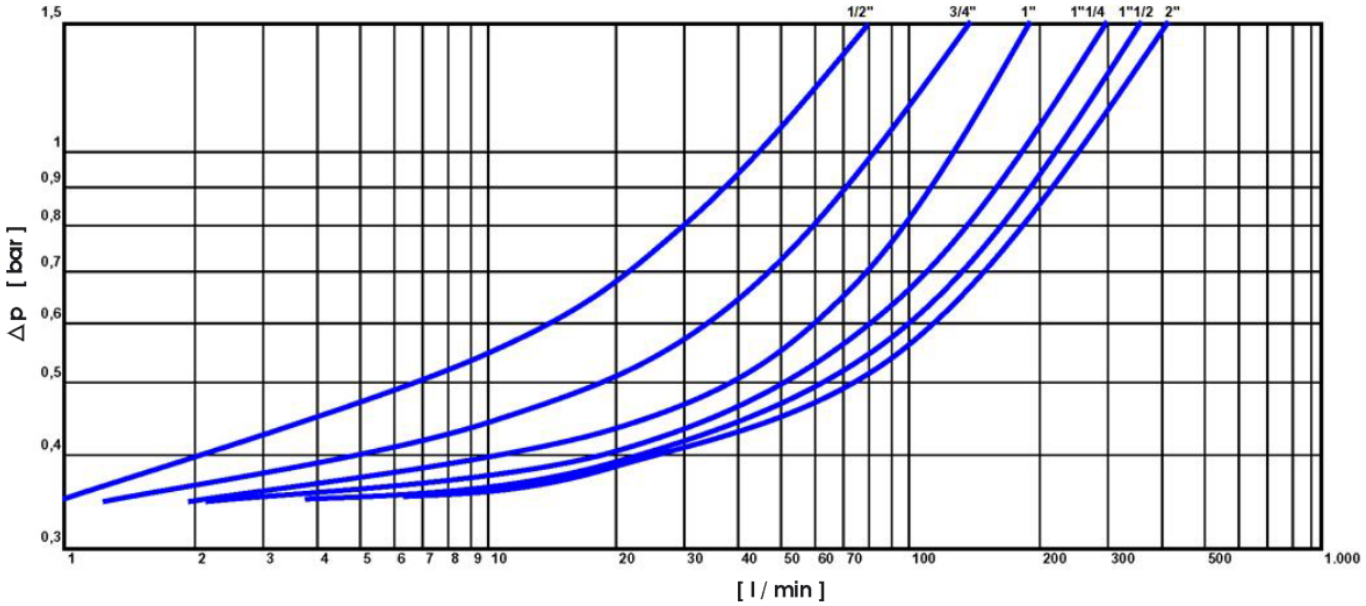
MATERIALS

Body	CW617N (EN 12165) CuZn40Pb2
Spring (1)	Steel, cadmium plated
Diaphragm (2)	CW614N (EN 12164) CuZn39Pb3
Seat (3)	Stainless steel AISI 303
Stem with shutter (4)	CW614N (EN 12164) CuZn39Pb3
	Stainless steel AISI 303 (1 ¼" – 2")
Spring Holder	CW614N (EN 12164) CuZn39Pb3
Compensation chamber (5)	
Nut	CW617N (EN 12165) CuZn40Pb2
Union	CW617N (EN 12165) CuZn40Pb2
O-Ring	NBR
Gasket	Fiber



STE0272 rev.01 28/02/2019

PRESSURE DROP DIAGRAM



D	½"	¾"	1"	1 ¼"	1 ½"	2"
Suggested flow rate [m3/h]	1.2 – 3	3 – 4.5	4.5 – 6	6 – 8	7 – 8.5	7.5 - 10
Suggested flow rate [l/min]	20 – 50	50 – 75	75 – 100	100 – 130	117 – 142	125 - 167

Max upstream pressure: 25 bar

Downstream pressure: 0.5 bar to 6 bar

RECOMMENDED WORKING TEMPERATURE/PRESSURE LIMITS

Max suggested operative upstream pressure: 25 bar

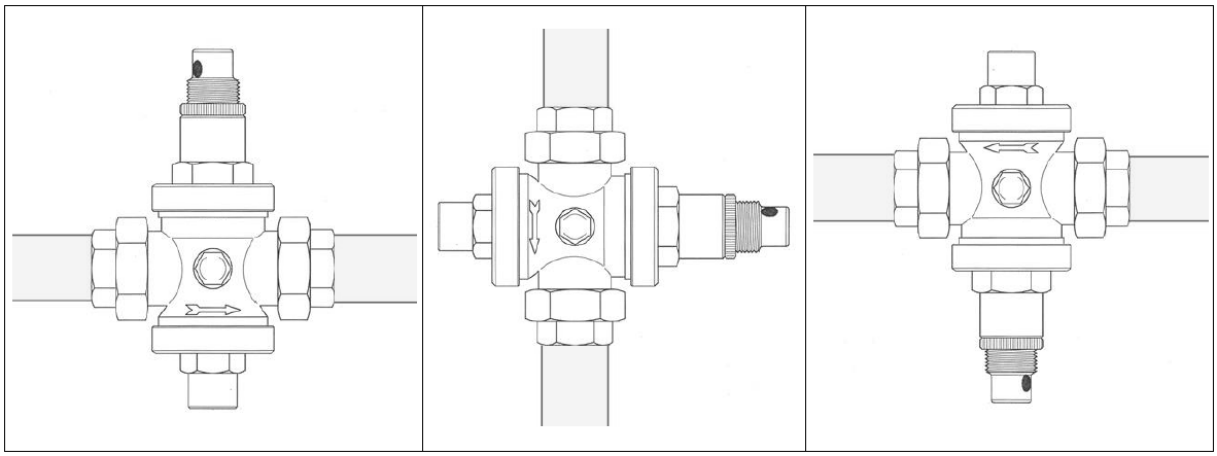
Max suggested operative downstream pressure: 6 bar

Pressure reduction ratio: 10 : 1

Max working temperature: 50°C

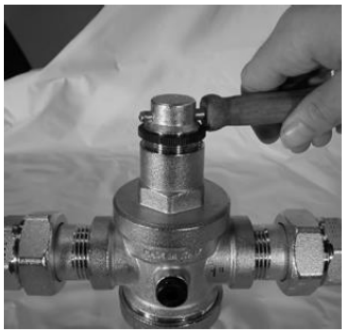
INSTALLATION AND COMMISIONING

The pressure reducer **500** can be installed in every orientation (horizontal, vertical, upside down, oblique).



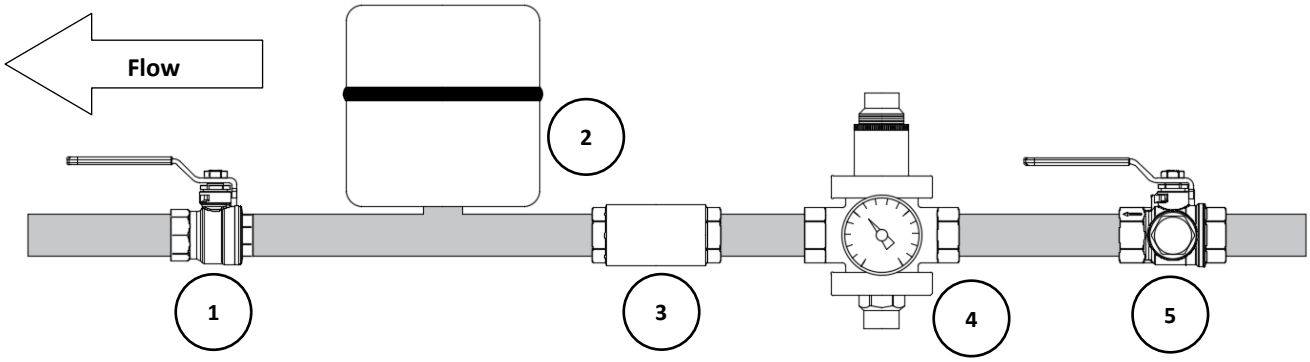
Please check that the flow direction is concurrent to the arrow on the reducer body. Commissioning and pressure set-up is done by rotating the brass spring holder on the top; to do it (see pictures below), loosen the plastic lock ring, turn the spring holder using a screwdriver (clockwise to increase outlet pressure, counter clockwise to decrease outlet pressure), tighten the plastic ring.





In order to set the reducer correctly, the system has to be closed and a manometer **M500P** (not included) has to be installed.

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 (**500**)
5 – Strainer and isolating valve (**51F**)

STE0272 rev.01 28/02/2019