Serie F.800

BRONZE PRESSURE REDUCING VALVE
DIRECT ACTING

F.830

The series F.830 threaded-end pressure reducing valves are suitable for reducing and controlling the pressure.

They are made of bronze. The valves are suitable for water and compressed air

YES: for installation in water plants for single user units, boiler supplying plants, hydraulic plants with direct supply from main water system.
They can be installed in a horizontal or vertical position.

Application fields

WATER INDUSTRY DRINKING WATER HEATING

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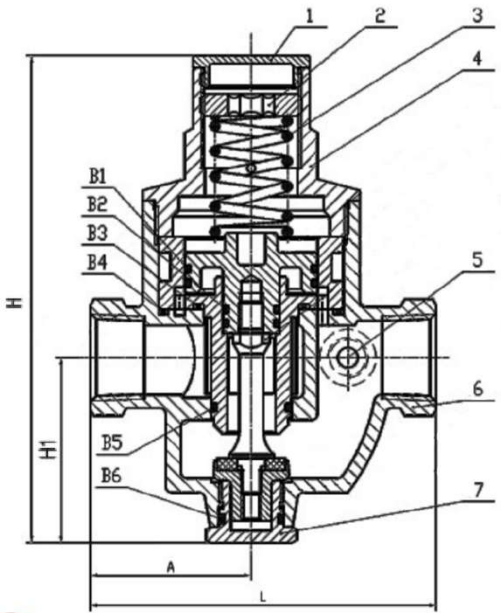
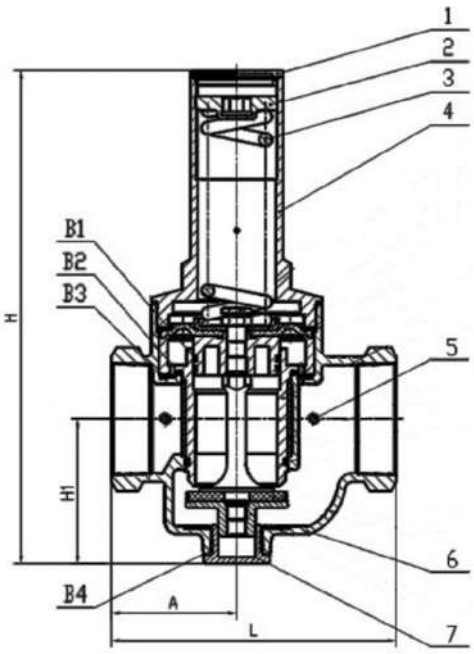
F.830 – DN 15-25



F.830 – DN 32-100



Materials

	Component	Material
1	Top Lid	Brass CW614N
2	Adjusting Screw	Brass CW614N
3	Spring	Steel 65Mn
4	Bonnet	Bronze CC491K
5	Gauge Connection	As Per Required
6	Body	Bronze CC491K
7	Bottom Lid	Brass CW617N
B1~B4	O-Ring	NBR

Dimensions (mm)

DN	15	20	25	32	40	50	65	80	100
L	89	92	98	126	126	168	174	225	230
A	41.5	43	46	55.5	55.5	72	75.5	98.5	104.5
H	121	121	121	192	192	272	272	385	385
H1	46	46	46	62	62	85	85	113	113

Weight (kg)

kg	1.054	1.09	1.135	2.4	2.57	3.1	4.1	5.5	6.9

Certificates

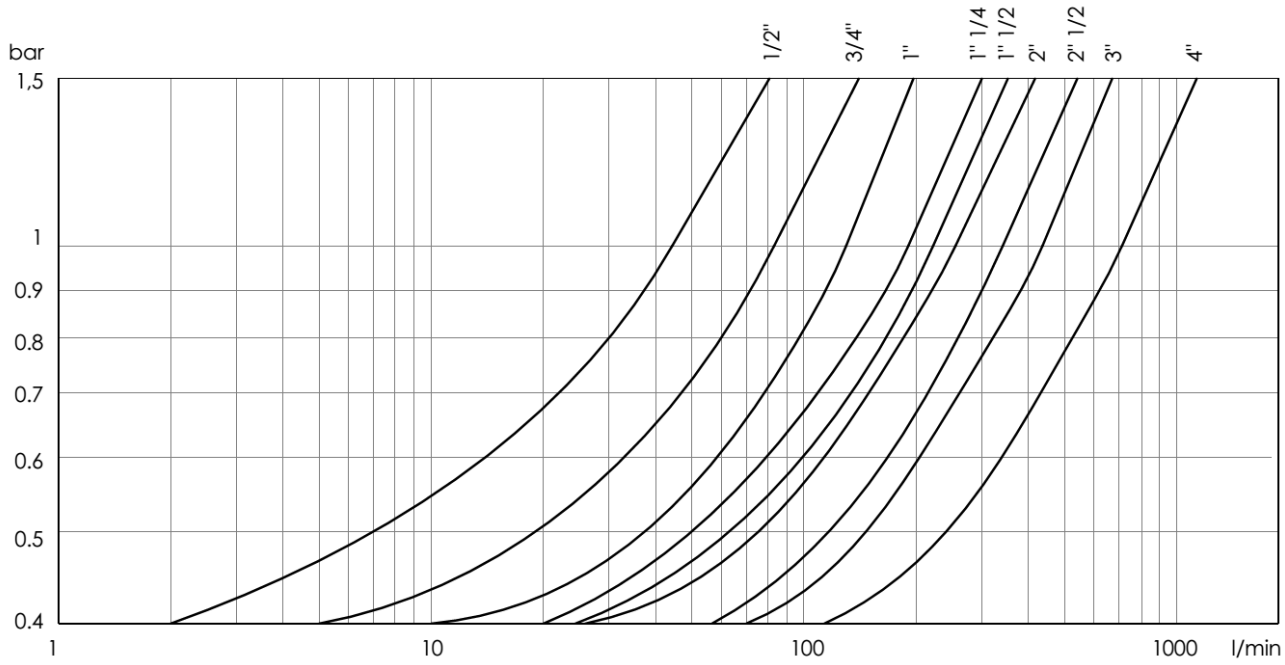
Standards

Thread Standard : EN ISO 7
Tests : TS EN 12266-1
Nominal Pressure: PN20
Temperature: -10 ~ 70°C

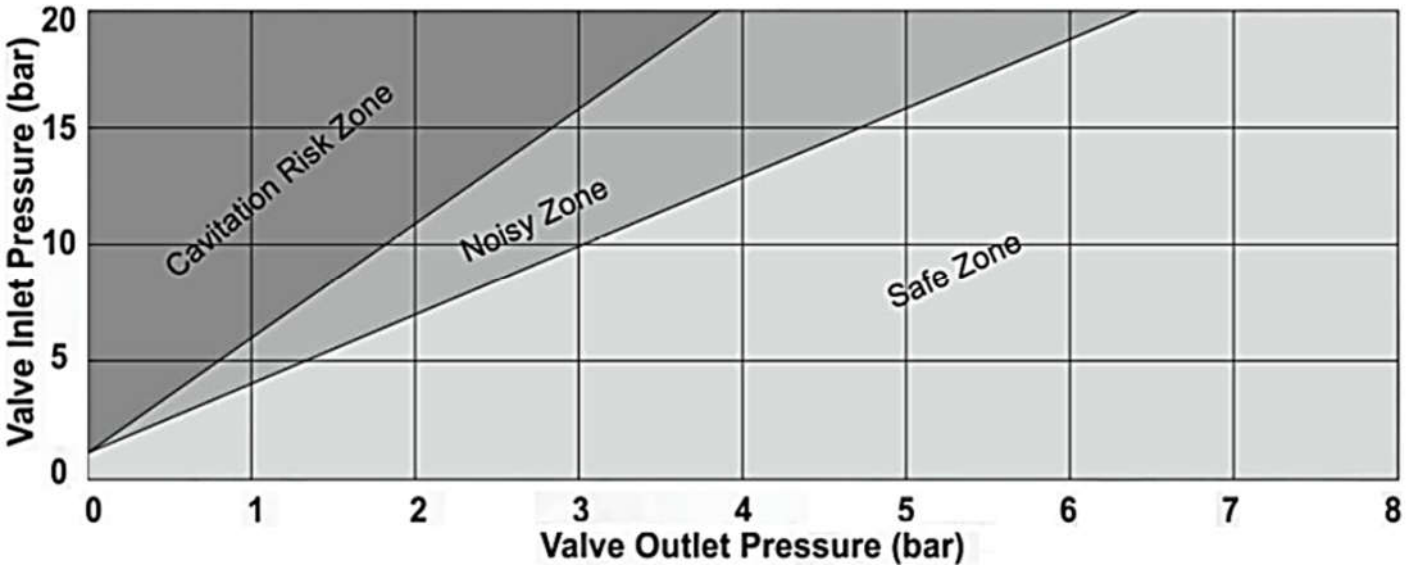
Flow Performance

DN	mm	15	20	25	32	40	50	65	80	100
Outlet Pressure	Bar	1 – 4	1 - 4	1 - 4	1 - 5	1 - 5	1 - 5	1 - 5	1 - 5	1 - 5
Optimal Flowrate Range	m³/h	1.2 – 3	3 – 4.5	4.5 – 5.7	5.7 – 7.8	6.6 – 8.4	7.2 – 9.6	8.4 – 10.8	9.6 – 13.2	12 – 15.6

Head Loss



Cavitation Diagram



Instruction and Recommendations

STORING

- Keep in dry and closed place.

RECOMMENDATIONS

Before carrying out maintenance or dismantling the valve:
- Ensure that the pipes, valves and fluids have cooled down
- That the pressure has decreased, and that the lines and pipes have been drained in case of toxic, corrosive, inflammable or caustic liquids.

Temperatures above 50°C and below 0°C might cause damage to people.

INSTALLATION

- Series F.830 pressure reducers are not affected by gravity; therefore they can be installed in any position.
- Respect the flow direction as indicated by the arrow on the body.
- The pressure reducing valve might be damaged by impurities in the water; in order to protect not only the pressure reducing valve but also all devices installed downstream (thermostatic mixer, sanitary mixers, shower, etc), it is recommended that a filter be installed upstream of the pressure reducing valve.
- When there are devices that produce or accumulate of hot water or piping exposed to thermal shocks in the downstream circuit, it is possible for the pressure to increase downstream of the pressure reducing valve; this is not a sign of malfunctioning of the pressure reducing valve but is due to the increase in the volume of water as a consequence of the variation of its temperature; by installing a expansion tank, between the boiler and pressure reducing valve, the problem is avoided. It is recommended that a security valve be installed in the circuit against water hammers, in order to avoid damage to the internal parts of the pressure reducer due to violent pressure surges.

INDICATIONS TO BE MADE WHEN ORDERING:

- Maximum flowrate
- Upstream pressure value (min and max)
- Downstream pressure value

ADJUSTMENT

NB: Do not exceed a pressure reducing ratio of 5:1.
- The pressure of the outlet can be easily modified once the pressure reducing valve is installed.
- To modify the outlet pressure, remove the top lid (1), with a screwdriver, turn the adjusting screw (2): by turning clockwise the outlet pressure will increase, by turning anticlockwise, the outlet pressure will decrease. The correct regulation of the pressure has to be done while circuit is closed downstream.