PRESSURE REDUCER

- Pressure reducer in brass
- PN 15
- Output pressure adjustable from 1 to 4 bar
- Piston operation
- Pressure compensation system
- Patented model

Products range

Art. 15-03	Pressure reducer in brass – PN15 – DN 3/8"
Art. 15-04	Pressure reducer in brass – PN15 - DN 1/2"
Art. 15-05	Pressure reducer in brass – PN15 - DN 3/4"

Technical specifications

The "15" Series pressure reducers are suitable for pressure reduction and control in systems with the following characteristics:

Use

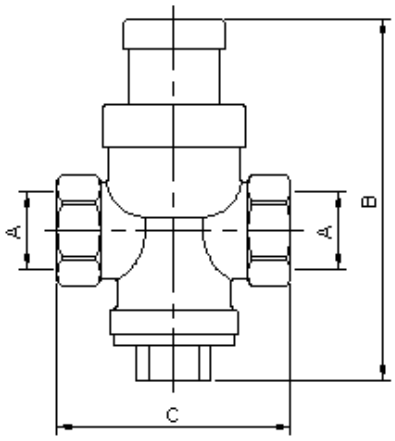
Maximum inlet pressure:	15 bar
Adjustment range downstream:	1 - 4 bar
Maximum operation temperature:	80°C
Connecting threads:	ISO 228/1
Usable fluids:	Water, compressed air
Guaranteed reduction ratio:	5 - 1

Material list

Body's metal:	Brass CW617N UNI-EN12165
Metal internal parts:	Brass CW614N UNI-EN12164
Grip seat:	Brass CW617N UNI-EN12165
Rod:	Brass CW614N UNI-EN12164
O-Rings:	NBR 70 Sh
Plastic internal parts:	Acetal resin

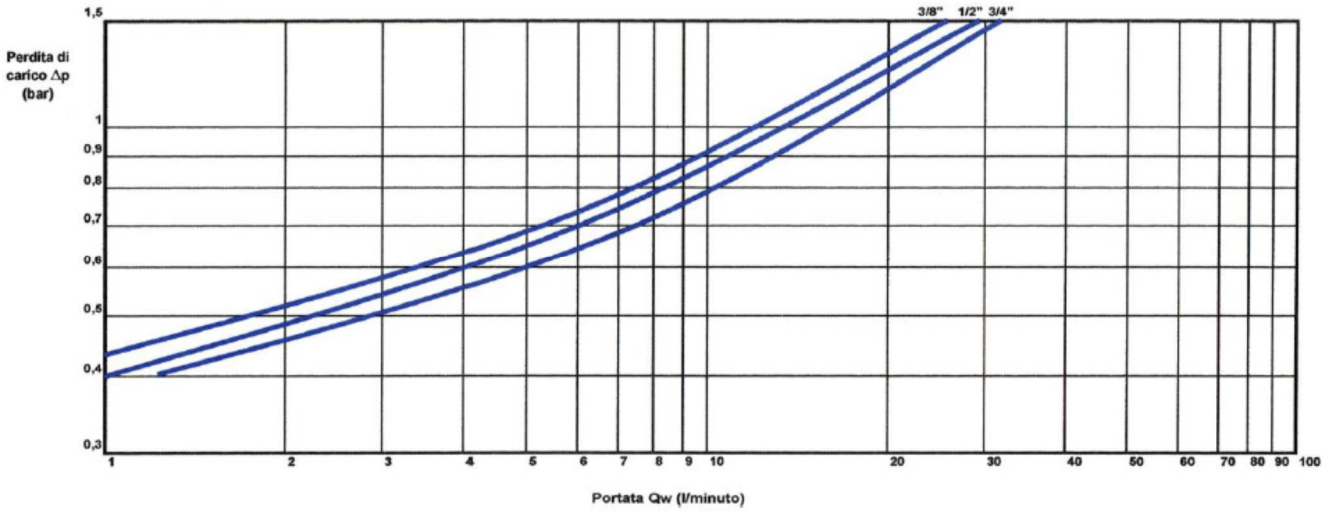
Due to their small size, the pressure reducers "**15**" Series are ideal to be inserted into water systems for individual utilities, boiler loading systems, hydraulic systems of special machines with direct load from the water supply.

Main sizes



Art.	A	B	C
15-03	3/8"	93	60
15-04	1/2"	93	60
15-05	3/4"	93	60

Flow rate and flow loss chart



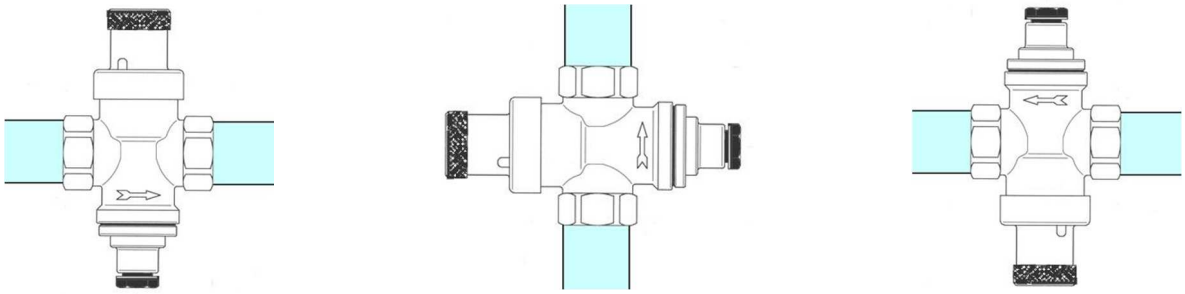
Optimal flow rate

In order to optimize the choice of the pressure reducer to be installed in a system, we recommend to follow the indications of the following table, in which are indicated the ideal operating pressures of the reducers Series "**15**"; the values expressed both in liters/minute and in m³/hour represent the range within which the pressure reducers' operation, noiselessness and reduced pressure loss are optimized.

Model	Size	Optimal flow rate l/min	Optimal flow rate m³/hour
15-03	3/8"	8-12	0,5-0,7
15-04	1/2"	10-14	0,6-0,8
15-05	3/4"	12-16	0,7-0,9

Installation

The Series "15" pressure reducers are not affected, during their operation, by gravity; they can therefore be installed in any position in the system:



The pressure reducer can be damaged by impurities in the water; in order to protect the reducer and all downstream appliances in the system, we recommend installing a self-cleaning filter upstream of the pressure reducer. In the eventuality a boiler is present in the downstream system, it is possible that anomalies may occur during the operation of the pressure reducer due to the increase in pressure resulting from the increase in water temperature; installing an expansion vessel between the boiler and the pressure reducer eliminates this problem. Lastly, it is recommended to insert in the system an anti-water hammer device in order to avoid failure in the pressure reducer's internal components.