



## PRESSURE LIMITER

Pressure limiting for plumbing installations where the connection is made by threaded ends.

- European Brass, DW (4MS) quality for use in drinking water installations.
- Limits outlet pressure to 3 and 5 bar.
- Compact.
- 100% valves are tested for inner leakage.



## TECHNICAL SHEET PRESSURE LIMITER

### PRODUCT DESCRIPTION

The non-adjustable pressure limiting is suitable for indoor plumbing installations, limiting the pressure 24 hours a day even if there is no water consumption.

Protects the indoor plumbing installations from the adverse effects of high pressure.

### PRODUCT SCOPE

Individual cold drinking water plumbing installations where the inlet pressure to the limiter is always between 5 and 16 bar. This device may not be used in installations where the inlet pressure may be less than 5 bar or more than 16 bar for some period. See installation instructions for more information.

The pressure limiting does not allow the outlet pressure to be adjusted, it is set directly from the factory to the nominal value of 4 bar, with the tolerances indicated in the graph "Influence of inlet pressure" (between 3 and 5 bar).

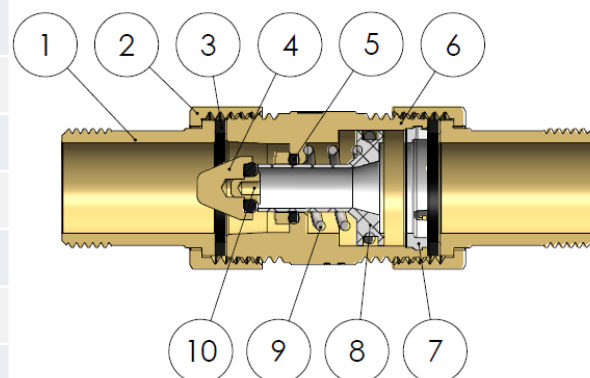
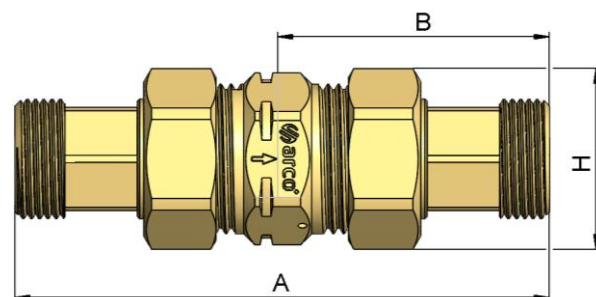
### GENERAL DIMENSIONS, PRESSURE AND TEMPERATURE

| Code  | Size  | A (mm) | B (mm) | H (mm) | PN (BAR) | Temp. (°C)* |
|-------|-------|--------|--------|--------|----------|-------------|
| VL030 | 1 M-M | 118    | 60     | 40     | 16       | 0 to 50     |

\* Freezing is excluded.

### MATERIALS

| Item | Component       | Material        | Finishing       |
|------|-----------------|-----------------|-----------------|
| 1    | Coupling        | Brass CW617N    | Brass color     |
| 2    | Nut             | Brass CW617N    | Brass color     |
| 3    | Flat joint      | NBR             | -               |
| 4    | Inlet cone      | Brass CW617N    | Brass color     |
| 5    | O-ring          | FKM             | -               |
| 6    | Body            | Brass CW617N    | Brass color     |
| 7    | Supporting clip | POM             | -               |
| 8    | Piston          | POM             | -               |
| 9    | Spring          | Stainless steel | Stainless steel |
| 10   | Bracket         | Brass CW617N    | Brass color     |



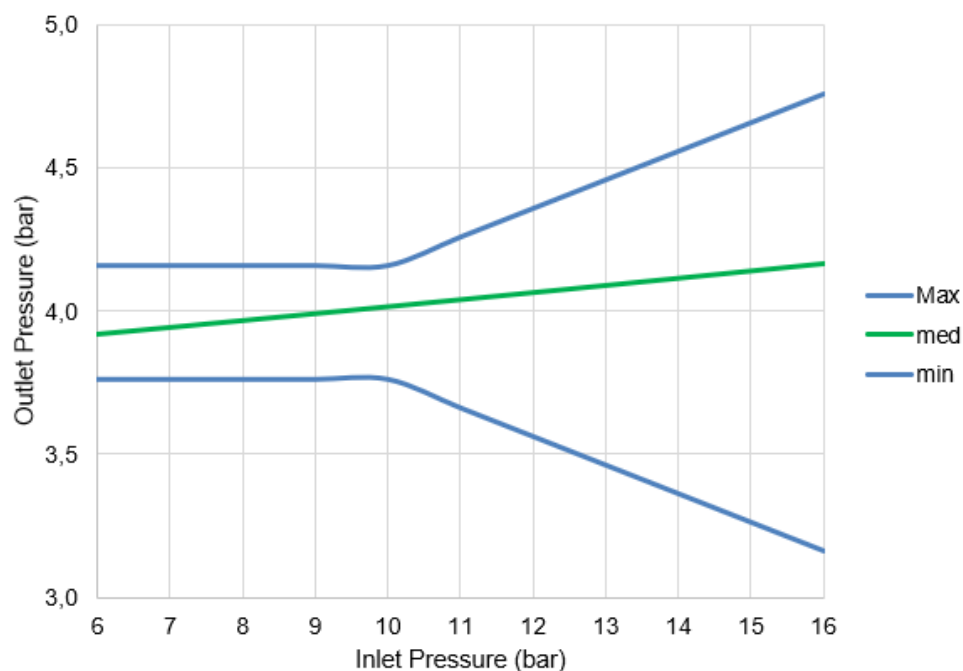


## TECHNICAL DATA

### Outlet pressure at zero flow

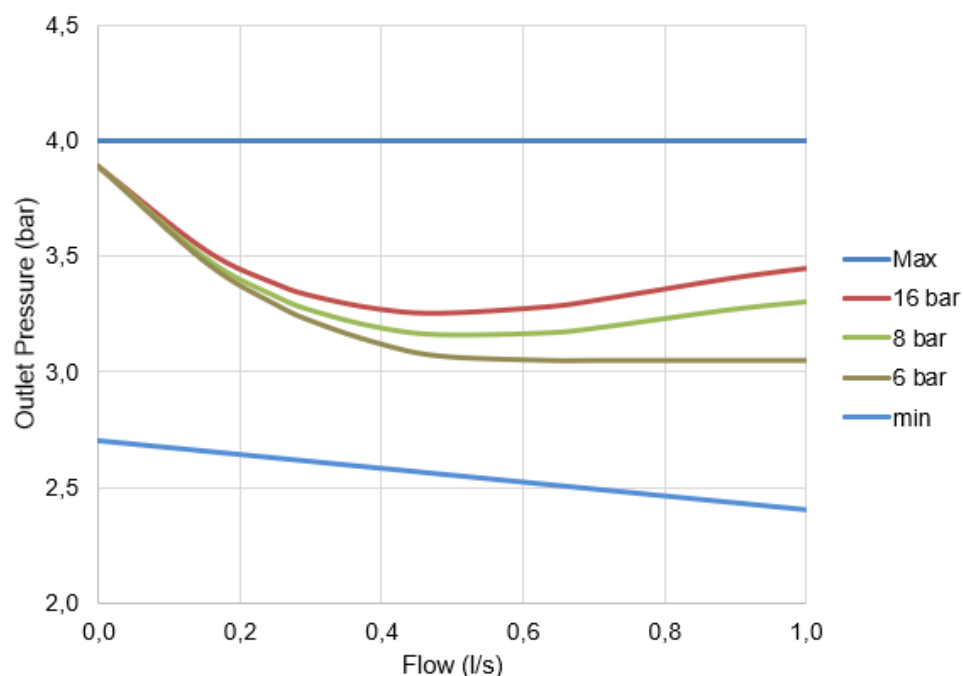
The limiter's outlet pressure when there is no water consumption in the installations is maintained between 3 and 5 bar (see attached graph) independently of the variation in inlet pressure (between 6 and 16 bar).

The blue lines (Max and min) show the outlet pressure zone. The green line represents the nominal value or tare pressure at the factory (4 bar). This tolerance zone complies with the EN 1567 standard.



### Outlet pressure vs flow

The following graph shows the outlet pressure as a function of flow for different inlet pressures (6, 8 and 16 bar). The blue lines (Max and min) show the outlet pressure zone, this tolerance zone complies with EN 1567.





## TECHNICAL DATA

### Compatibility with fluids

| Fluid          | Compatibility |
|----------------|---------------|
| Drinking water | Excellent     |

Not compatible with other fluids.

## INSTALLATION AND OPERATION INSTRUCTIONS

Before performing any action, the water supply to the installation should be shut off. Make sure there is no dirt or foreign objects in the connection to the network. Apply the appropriate sealing material to the inlet thread of the limiter.

The valve should be installed with a suitable tool, using the planes located in the central section never apply excessive forces as it could cause damage to the device. Restore the water supply and check the tightness of all connections before leaving it in service.

- In case of water with small impurities or solids, the use of a filter upstream of the limiter is required to avoid the damaging the internal components.
- In buildings, the limiter should be installed in the home; never in the counter room to avoid insufficient outlet pressures.
- Install only in the internal home network, not in the public or community network.
- It should be installed horizontally or vertically but always following the direction of the engraved arrow.
- The limiter has a hole in one of its lateral faces, is must not be obstructed.

Do not alter the assembly of the limiter components, may cause external leaks or malfunction.



All products have an environmental impact during its life cycle, even once retired. All the components of this product can be recycled. Once the use is over, leave the valve in any recycling green point. Válvulas Arco reserves the right to change the product or any of its technical specifications without prior notice.

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