



Downstream pressure reducing stabilizing automatic control valve Mod. XLC 510 and 610

The CSA model XLC 510 and 610 series is a globe pattern piston operated automatic control valve, that reduces and stabilizes the downstream pressure to a constant value, regardless of variation in demands and upstream pressure conditions. Produced in compliance with PN 40 bar pressure standards and entirely made in ductile cast iron FBT epoxy painted and stainless steel, the valve is designed to reduce head loss, throttling noise and cavitation damage. The valve is normally equipped with anti cavitation low flow stability system AC, the double cage CP on request.

Applications

- Downstream of pumps to reduce the pressure on the main supply line.
- In derivation from the main line to stabilize the pressure of secondary line.
- As a protection against rise in pressure of industrial equipment and civil installations.
- On the inlet supply line of storage tanks in case of high static values to stabilize pressure and flow for the level control.

Accessories

- Pressure measurement kit.

Note to the engineer

- Inlet and outlet pressure, and flow rate are required for the proper sizing.
- CP double stage pressure reduction trim is recommended to provide a higher resistance to cavitation, and accurate regulation in case of low flow.
- A minimum length of 3 DN upstream of the valve is recommended for the best accuracy.

Additional features

- XLC 510/610-FR downstream pressure reducing with back-flow prevention.
- XLC 510/610-H downstream pressure reducing with high sensitivity pilot.

Working conditions

- Fluid: treated water.
- Minimum operating pressure: 0,7 bar.
- Maximum operating pressure: 40 bar.
- Maximum temperature: 70°C.

Downstream pressure pilot adjustment range

- Blue spring: 0,7 to 7 bar.
- Red spring: 1,5 to 15 bar.
- Higher values up to 25 bar on request.
- Values lower than 0,7 available with high sensitivity pilots.

