

Technical data sheet

Type C101C

Control valve

Pressure reducing valve with check valve

NB : Additional information is available on the data sheet listed as «Main valve».

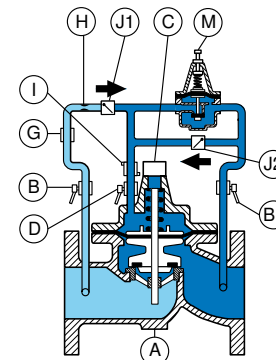
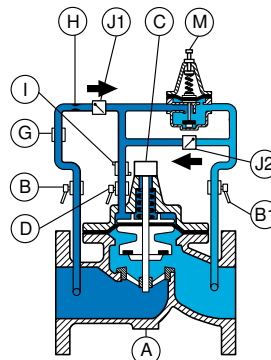
Applications and general characteristics



- This valve controls and maintains a preset reduced downstream pressure regardless of variations in demand and upstream pressure (the setting of downstream pressure is always below the upstream pressure).
- It closes automatically in case of backflow.
- This valve reduces the pressure in networks of water distribution, irrigation or pump outlet. It closes in case of down-stream overpressure or fall of upstream pressure.
- Approvals : ACS

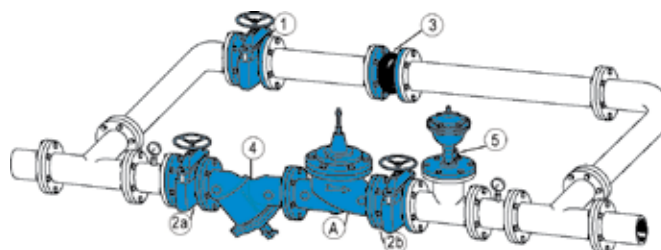
Working principal

By standard working, the upstream pressure is higher than the downstream pressure ; check valve J1 is open and check valve J2 is closed.
The valve works like a downstream pressure reducing valve C101.



In case of down-stream overpressure, the check valve J2 canalizes the overpressure to the upper chamber and the check valve J1 prevents the overpressure from passing upstream. The valve A closes and stops any backpressure up-stream.

Installation example and spare parts list



Setting range :

- 0,4 to 5,51 bar
- 1,72 to 8,5 bar (standard)
- 2,06 to 24,5 bar

Installation :

- install a strainer upstream
- install an air relief valve downstream or at the high point near the control valve..
- horizontal setting up : the cap of the valve should be oriented to the top and inclined at 45° maximum.
- vertical setting up : change the spring of the main valve (option 7)

Other types :

- C101, C101DS, C101M, C101S
- FKM seals in the main valve and in the pilot.
- 304 stainless steel pilot and 316TI stainless steel fittings.

N°	Description	Material
A	Main valve	Cast iron
B	Upstream isolation valve	nickel-plated brass
B1	Downstream isolation valve	nickel-plated brass
C	Position indicator with drain	Stainless steel - brass
D	Chamber isolation valve	nickel-plated brass
G	Filter	Brass
H	Orifice-needle valve	Stainless steel or brass
I	Flow control	Brass
J1	Check valve	Brass
J2	Check valve	Brass
M	Pilot C101	Brass-stainless steel-bronze
1	Isolation valve of the by-pass	
3	Rubber expansion joint	
2a	Upstream isolation valve of the main water pipe	
2b	Downstream isolation valve of the main water pipe	
4	Filter	
5	Single function air valve	