

## Technical data sheet

# Type C101C

## Control valve

### Pressure reducing valve with check valve

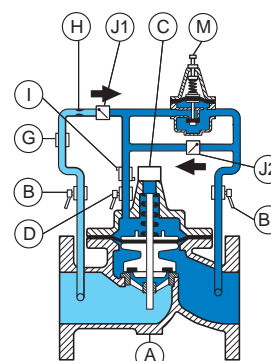
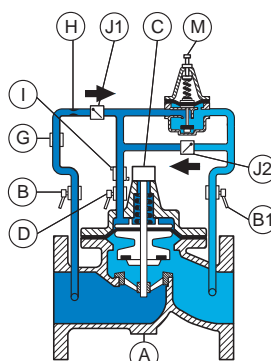
#### Applications and general characteristics



- This valve controls and maintains a pre-set 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 back-flow.
- This valve reduces the pressure in networks of water distribution, irrigation or pump outlet. It closes in case of downstream overpressure or fall of upstream pressure.
- Approvals : ACS - WRAS

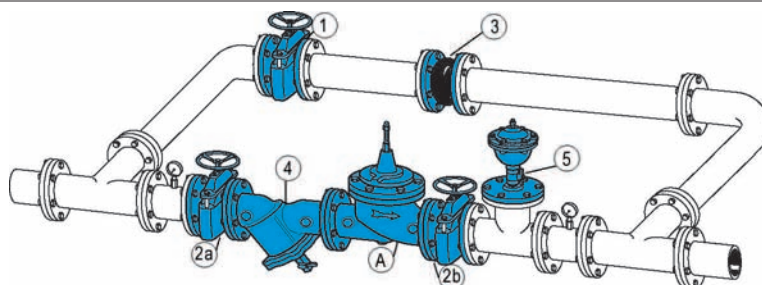
#### Working principal

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 downstream 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 upstream.

#### Installation example and spare parts list



#### Setting range :

- 0,14 to 2,41 bar
- 1,72 to 8,6 bar
- 6,89 to 17,24 bar
- 13,78 to 27,57 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	