

Technical data sheet

Type C101

Control valve

Pressure reducing valve

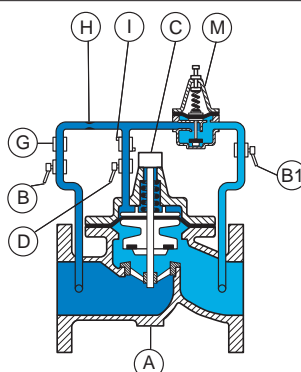
Applications and general characteristics



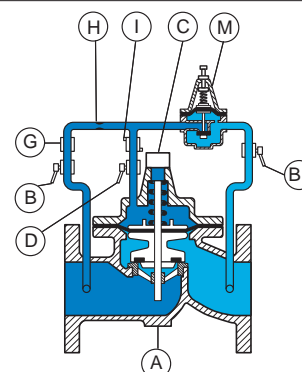
- This valve controls and maintains a pre-set reduced downstream pressure regardless of variations in demand and upstream pressure (the setting of downstream pressure is always below the upstream pressure).
- This valve reduces the pressure in networks of water distribution, irrigation or pump outlet.
- Approvals : ACS - WRAS

Working principle

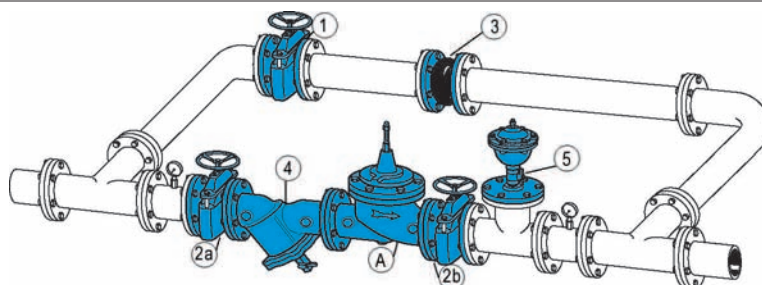
When the pilot M opens, pressure in the upper chamber is released and the valve A opens, reproducing the movement of the pilot.



When the pilot M closes, pressure in the upper chamber rises and forces the membrane to close the main valve A which reproduces the movement of the pilot.



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 :

- C101C, C101DS, C101M, C101S
- FKM seals in the main valve and in the pilot.
- 304 stainless steel pilot and 316TI stainless steel fittings.

N°	Description	Materials
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
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	