

Technical data sheet

Type C301 / C301C

Control valve
Back pressure valve

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

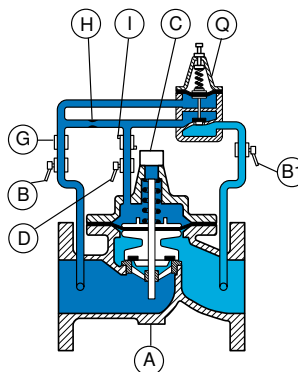
Applications and general characteristics



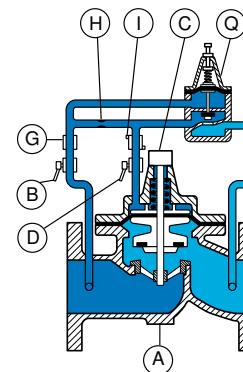
- It controls and maintains a preset upstream pressure regardless of variations in flow rate.
- Equipped with non return valves, it closes automatically in case of backflow (C301C).
- Always mounted in line, it prevents the pump from reducing its suction pressure below the security point. It prevents also from exceeding the pumping capacity when the demand is higher.
- Approvals : ACS - **WRAS**

Working principle

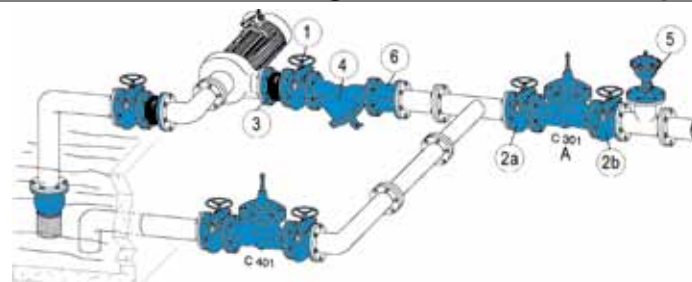
When upstream pressure is getting lower than the pressure required by the pilot Q, the pilot will close and limit the flow circulation. The upstream pressure pushes on the membrane of the main valve A which closes.



When upstream pressure increases, pilot Q will open and release the pressure from the membrane of the main valve A which opens.



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 :

- C301DS, C301S, C301M
- 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
Q	Pilot C301	Brass-stainless steel-bronze
1	Isolation valve of the pump	
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	
6	Check valve of the pump	