Technical data sheet

Type C727 / C727C

Control valve

Altitude valve electrically operated - upstream pressure sustaining function

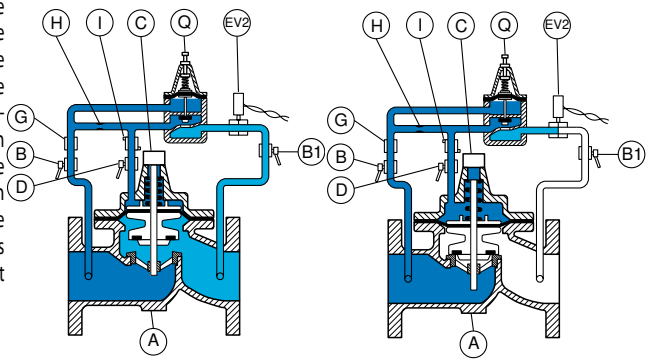
NB : Additional information is available on the data sheet listed as «Main valve».

Applications and general characteristics

- Altitude valve operated by a solenoid valve connected to level sensor or float. The solenoid valve, N.C., will open at a low water level, and close at a preset high water level. The valve works like an ON/OFF duty and guarantees a minimum upstream pressure.
- As regulating a volume and not a level, this valve is suitable for filling during the night. The ON/OFF duty function is a supplementary energy saving when supplied by a pump.
- It guarantees a preset sustaining upstream pressure and allows the filling when the pressure in the network is high enough : relief function.
- Equipped with check valves, it closes automatically in case of backflow (C727C).
- Approvals : ACS - WRAS

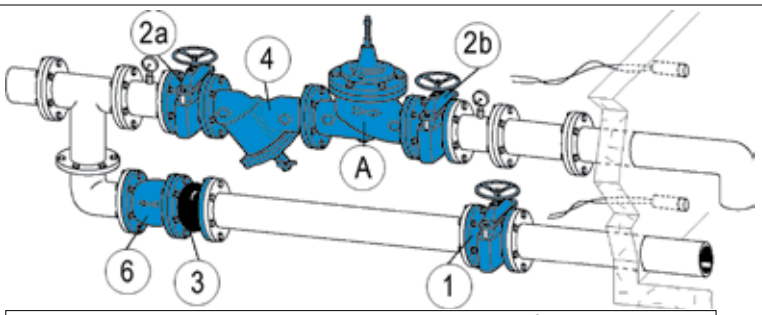
Working principle

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. The upstream pressure increases and reaches the preset pressure of pilot Q.



When the upstream pressure is getting higher than the preset pressure of pilot valve Q, the pilot keeps open and allows the altitude regulation thanks to the solenoid valve EV2.

Installation example and spare parts list



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
EV2	2 ways solenoid valve	Brass/Stainless steel
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 by-pass	
2a	Upstream isolation valve of the main water pipe	
2b	Downstream isolation valve of the main water pipe	
3	Rubber expansion joint	
4	Filter	
6	Check valve of the by-pass	

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
- 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)

NB :
- Detection device of levels not included.

Other types :
- C707, C707C