

## Technical data sheet

# Type C108 / C108C

## Control valve

Pressure reducing valve - Upstream full-opening function

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

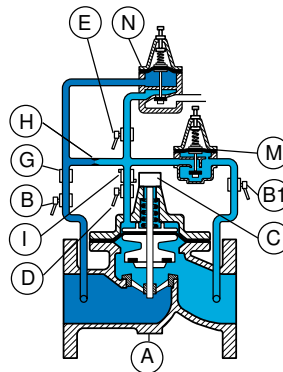
### Applications and general characteristics



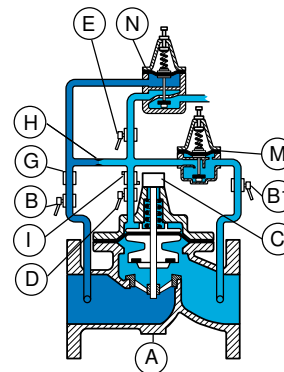
- This valve controls and maintains a preset reduced downstream pressure regardless of variations in upstream pressure and in downstream demand (the preset downstream pressure is always below the minimum upstream pressure).
- This valve reduces the pressure in networks of water distribution, irrigation or pump outlet.
- The main valve opens fully if the up-stream pressure is below a preset level.
- Approvals : ACS - WRAS

### Working principle

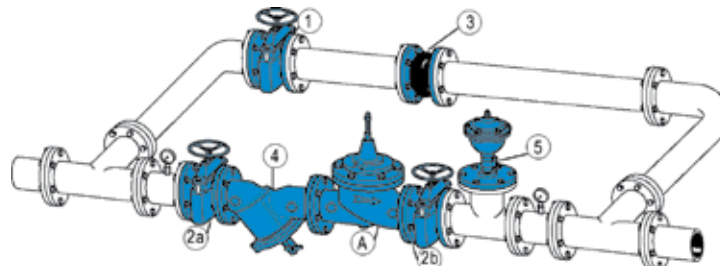
When upstream pressure is getting higher than the preset pressure, pilot N closes. The valve works like a C101.



When upstream pressure is getting lower than the preset pressure, pilot valve N opens and allows full opening of the valve.



### 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 :

- C108S, C108M
- 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
E	Isolation valve of pilot valve C108	nickel-plated brass
G	Filter	Brass
H	Orifice-needle valve	Stainless steel or brass
I	Flow control	Brass
M	Pilot valve C101	Brass Stainless steel bronze
N	Pilot valve C108	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	
5	Single function air valve	