

# Technical data sheet

## Type C101 - Control valve Pressure reducing valve

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

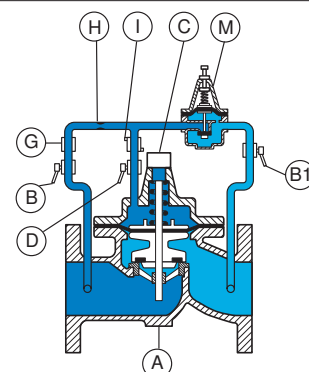
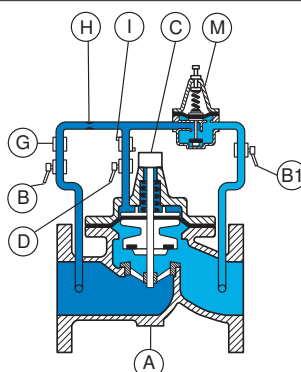
### Applications and general characteristics



- This valve controls and maintains a preset reduced downstream pressure regardless of variations in 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**

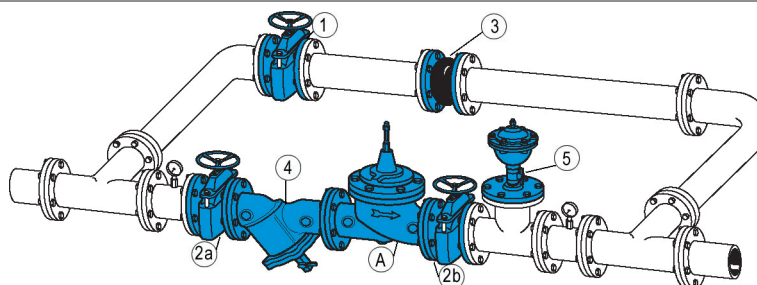
### Working principle

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 also 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 :**  
 • 0,4 to 5,51 bar  
 • 1,72 to 8,5 bar (standard)  
 • 2,06 to 24,5 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).

N°	Description	Materials
A	Main valve	Ductile iron (except DN 125 : 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	

**Other types :**  
 • C101C, C101DS, C101M, C101S  
 • FKM seals in the main valve and in the pilot.  
 • 316TI stainless steel fittings.

\* For illustration purposes only.