## Technical data sheet

# Type C306 / C306C LI

## Control valve

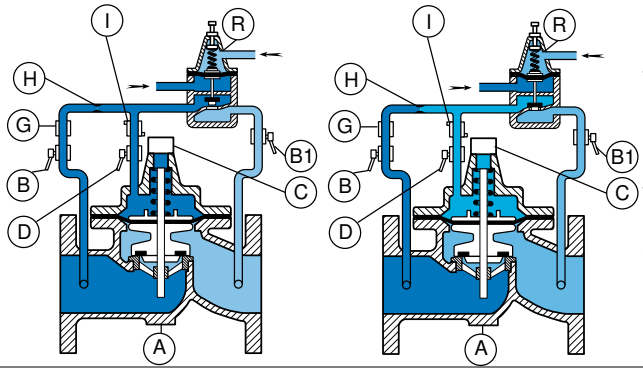
Differential back pressure. Mounting in line

### Applications and general characteristics

- **Mounting in line :** Maintains a constant preset differential pressure across the pump (functioning point).
- It allows to maintain a constant differential pressure across an overpressure pump regardless of the flow rate (overpressure pump).
- Provided with a check valve feature, it closes automatically in case of backpressure (C306C).
- Approvals : ACS - WRAS
- NB : The pressure connections are outside of the valve, on each side of the overpressure pump. Be careful when connecting the valve.

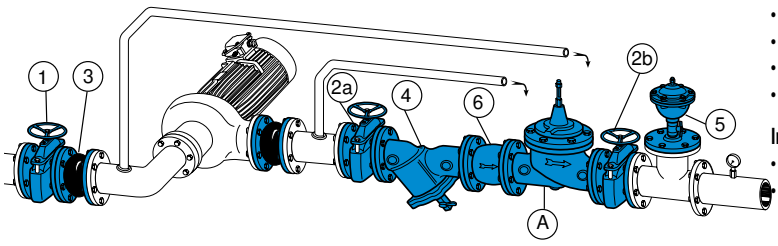
### Working principle

The differential pressure increases. Pilot valve R will open, as well as main valve A.
The head loss (and the differential pressure as well) decreases.




The differential pressure decreases. Pilot valve R will close, as well as main valve A.
The head loss (and the differential pressure as well) increases.

### 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 |
| G | Filter | Brass |
| H | Orifice-needle valve | Stainless steel or brass |
| I | Flow control | Brass |
| R | Pilot valve C306 | Brass-stainless steel-bronze |
| 1 | Isolation valve of the pump | |
| 3 | Rubber expansion joint | |
| 2a | Upstream isolation valve of the main pipe and of the pump | |
| 2b | Downstream isolation valve of the main pipe | |
| 4 | Filter | |
| 5 | Single function air valve | |
| 6 | Check valve of the pump | |

**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 :**
- C306S, C306M
- FKM seals in the main valve and in the pilot.
- 304 stainless steel pilot and 316TI stainless steel fittings.