

## Technical data sheet

# Type C306 / C306C DE

## Control valve

Differential back pressure. Mounting on a by-pass.

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

### Applications and general characteristics

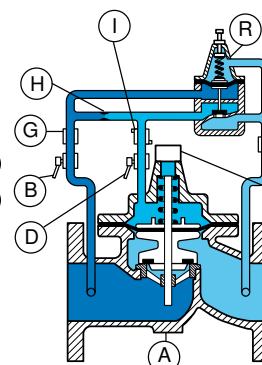
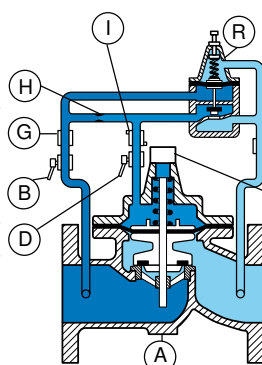


### Mounting on a by-pass :

- Maintains a constant preset differential pressure across the installation.
- It allows to maintain a constant differential pressure when mounted on a by-pass regardless of the flow rate (temperature exchanger).
- Provided with a check valve feature, it closes automatically in case of backpressure (C306C).
- Approvals : ACS - WRAS
- NB : The pressure connections are on the valve as the pressure indications come directly because of mounted on a by-pass.

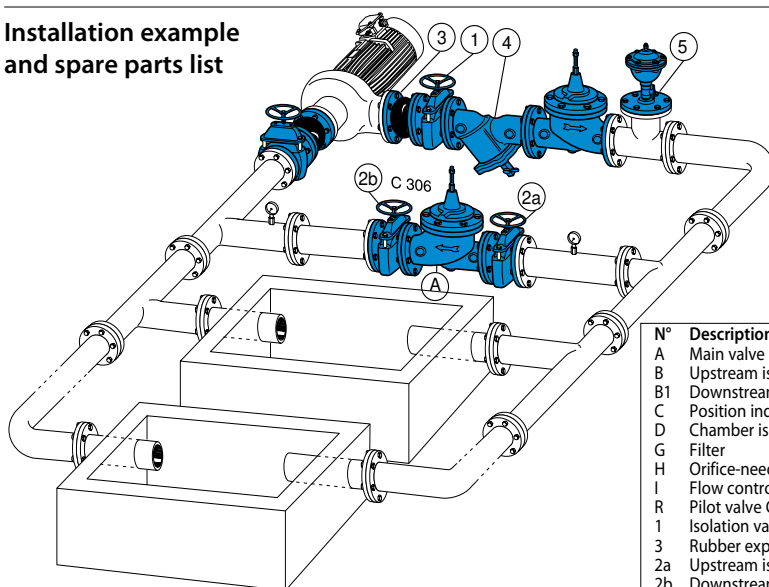
### Working principle

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



#### 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.

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 - 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 by-pass	
2b	Downstream isolation valve of the by-pass	
4	Filter	
5	Single function air valve	