# INSTALLATION AND MAINTENANCE INSTRUCTIONS
# BELLOWS SEALED STOP VALVES (VF16 – VF17 – VF18)

## GENERAL

- These instructions must be carefully read before any work involving products supplied by VALSTEAM ADCA ENGINEERING S.A. is undertaken.

***Warning!***
- Do not touch the equipment without appropriate protection during working operation because it may conduct heat if the used fluid is at high temperature.
- Before starting maintenance be sure that the equipment is not pressurized or hot.
- The equipments must be used within the working temperature and pressure limits laid down for them, otherwise they may fail (refer to nameplate and/or IS- Information Sheet).
- Do not remove the nameplate attached to the equipment. Serial number and other useful information is stamped on it.

## INSTALLATION

**ATTENTION**

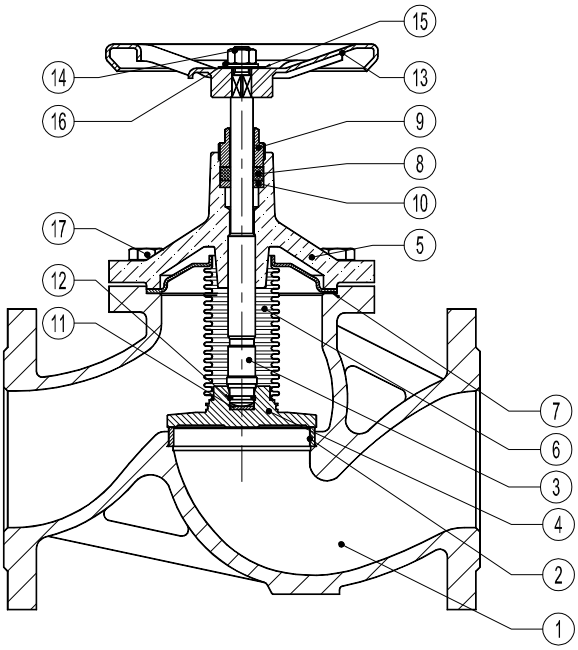
- Before to install remove plastic covers placed on flanges or connection ends.
- The raised faces have to be clean to allow a correct tightness.
- The equipment has an arrow or Inlet/Outlet designations. Be sure that it will be installed on the appropriate direction.

| CE MARKING (PED - European Directive 97/23/EC) | | | |
|---|---|---|---|
| **PN 16** | **Category** | **PN 25** | **Category** |
| DN15 to DN50 | SEP - art. 3, paragraph3 | DN15 to DN40 | SEP - art. 3, paragraph3 |
| DN65 to DN200 | 1 (CE Marked) | DN50 to DN125 | 1 (CE Marked) |
| DN250 | 2 (CE Marked) | DN150 to DN200 | 2 (CE Marked) |

| LIMITING CONDITIONS VF 16 | | LIMITING CONDITIONS VF 17 | | LIMITING CONDITIONS VF 18 | |
|---|---|---|---|---|---|
| **ALLOWABLE PRESSURES** | **RELATED TEMPERATURE** | **ALLOWABLE PRESSURES** | **RELATED TEMPERATURE** | **ALLOWABLE PRESSURES** | **RELATED TEMPERATURE** |
| 16 bar | -10 /120º C | 16 bar | -10 /120º C | 25 bar | -10 /120º C |
| 12,8 bar | 200 ºC | 14,7 bar | 200 ºC | 23 bar | 200 ºC |
| 11,2 bar | 250 ºC | 13,9 bar | 250 ºC | 21,8 bar | 250 ºC |
| 9,6 bar | 300 ºC | 12,8 bar | 300 ºC | 20 bar | 300 ºC |
| / | / | 11,2 | 350 ºC | 17,5 bar | 350 ºC |

## MAINTENANCE

- The ADCA valves do not require any particular maintenance.
- The sole possible leakage is the one due to the accidental breaking of the bellows (6), noticeable by the fluid loss from the stuffing box. This anomaly is due to the wear, water-hammer or to strange particles in the pipeline. Waiting to repair or replace the valve, tighten the gland (9) in order to reduce the leakage.
- It is possible to repair the valve as long as the bonnet threading (5) is not too much worn, unscrew the bolts (17) and disassemble the bonnet from the body, take off stem/bellows/disc (3-6-4) and replace them with a new kit.
- If the valve leak from the seat, do not insist in closing with more strength by the handwheel and do not use levers because will probably increase the sealing seats damage. In this case open and close again the valve in order to remove possible sediments.
- Before reassembling, open the valve at two handwheel turns, check if the sealing seats are carefully clean and not damaged, check if each part of the gaskets (7-8) is integral, otherwise it is recommended to replace them.
- For further information refer to the relevant IS (Information Sheet) or consult our Sales Office.




**ATTENTION**

- **LOSS OF WARRANTY: Total or partial disregard of above instructions involves loss of any right to warranty.**