

# MAINTENANCE AND USE HANDBOOK

## FLANGED BALL VALVE



### USE

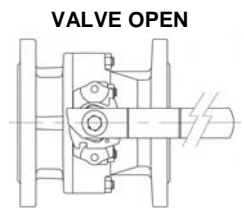
- 01:** For water heating/air conditioning and compressed air processing
  - 02.0:** For industrial water supplies, heating/ventilation plants and compressed air
  - 02.1GAS:** For gas distribution networks (natural gas, town gas, LPG)
  - 02.1 VITON:** For industrial water supplies, heating/ventilation plants. Plants with superheated water. For hydrocarbons
  - 02.300:** Suitable for sea area and naval plants-For industrial water supplies, heating/ventilation plants, industrial and chemical uses
  - 02.7:** Suitable for sea area and naval plants-For industrial and chemical plants-Body thermal treatment possible
  - T4-Y4:** For water heating/air conditioning, and compressed air processing
- NOT SUITABLE FOR STEAM-NOT SUITABLE FOR CONTINUOUS FLOW REGULATION**

### CONDITION OF USE

<b>TEMPERATURE</b>	<b>min °C</b>	<b>max °C</b>	<b>PRESSURE</b>	
NBR	-10	100	DN 20-200	16 bar
Viton	-10	140	DN 250	10 bar

### STORING

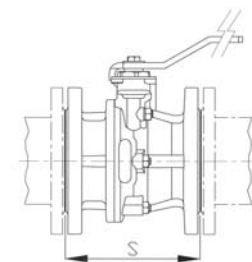
- Keep in a dry and cool place
- During the storing the valve must be fully open to avoid the of the tighten seats **fig. 1**



**Fig. 1**

### INSTALLATION

- Handle with care
- Keep the valve between the pipes and insert the sealing between the flanges. Make sure that the sealing is correctly placed
- The distance S between the flanges must be equal to the gauge of the valve. Do not use bolts to bring near the pipe. Clamping bolts must be cross tightened **fig. 2**



**Fig. 2**

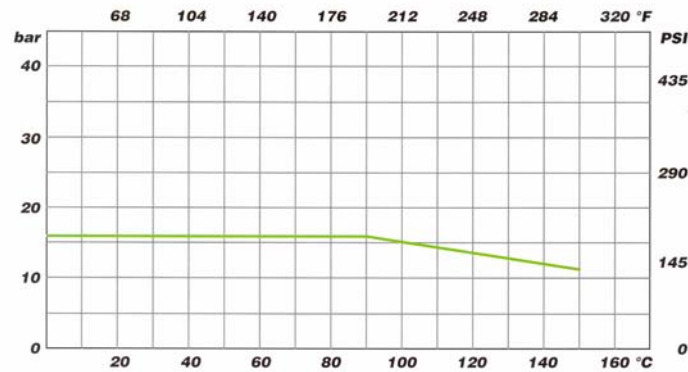
- Flanges must not be welded to pipes once the valve has been installed. Make sure the installation is equipped with expansion joints so as to avoid breaking or losses due to pipes tensions, vibrations or shifts.
- Pressure shocks can cause damages and breakage. We recommended to avoid them if possible or adopt expansion joints that or system that could reduce pressure shocks' effects.
- During the heating from room temperatur to a high working temperature, the fluid contained between body ad flange ( valve open) or in the ball (valve closed) expand and could damage the body and the ball, we recommend to operate intermediate opening and closing manoeuvre during the heating (e.g. at 40°C/60°C/...). For this use we can supply special bleeder.
- At sub-zero temperatures, the fluid contained between body and ball could freeze causing irreparable damages If the valve is exposed to this conditions we recommend to insulate the valve.
- We recommend to manoeuvre periodically the valves in order to avoid the storing of material on the ball and ball seats.

## MAINTENANCE

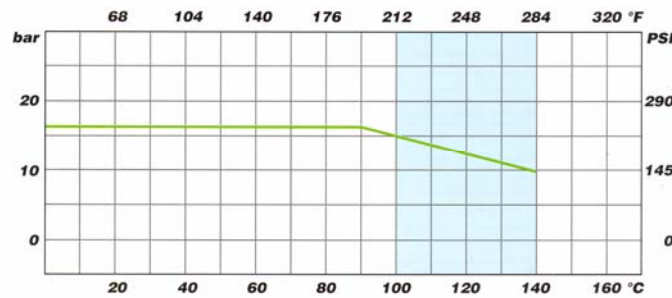
To assure the maximum safety we recommend to substitute the O-ring at least every 24 month and the PTFE seats at least every 48 month.  
The maintenance period vary according to the application.  
Clean periodically the external surface of the valve in order to avoid dust accumulation.

## PRESSURE/TEMPERATURE DIAGRAM

SERIE 01



SERIE 02



SERIE 04

