



## 3.0 DIAPHRAGM REPLACEMENT

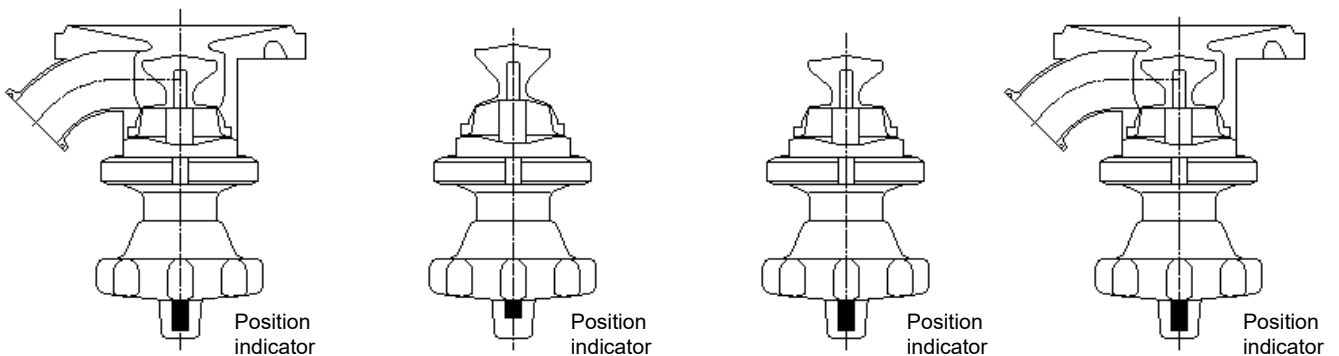
### GENERAL PRECAUTION

- 1.1 Any operation intervention on the valve (diaphragm replacement excluded) must be done by an AR inox operator. So AR inox don't accept any responsibility for any valve damage due to casual repair done by not authorized personnel.
- 1.2 In order to not damage the valve, we recommend to unscrew/screw the its round nut using the right DIN tool (code CHR-D) ... and carefully follow the instruction.
- 1.3 First of any possible maintenance intervention, remove the service fluid.
- 1.4 When corrosive fluids are manipulate, keep all necessary protection rules for involved personnel and plant.

## ATTENTION

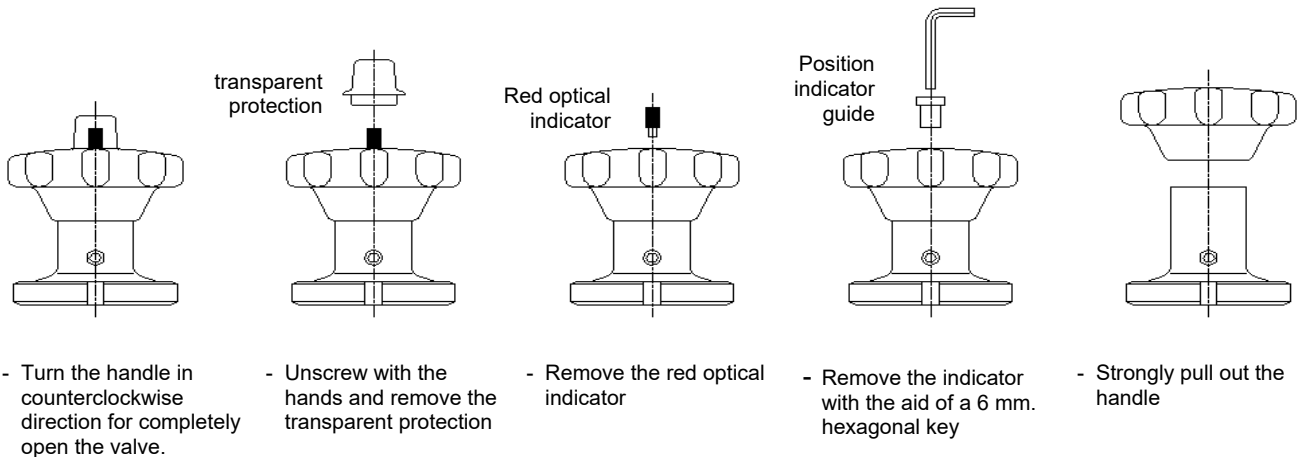
**DURING THE MAINTENANCE, (DISASSEMBLING AND REASSEMBLING) IT'S RECOMMENDED TO PAY ATTENTION AND A LOT CARE TO HANDLE ANY ACTUATOR WITH DIAPHRAGM. EVERY LITTLE DEFORMATION, STRIPES OR DENT CAN CAUSE AN IRREPARABLE DIAPHRAGM DAMAGE. FARTHER IT'S RECOMMENDED TO TAKE CARE AND USE SPECIFIC SAFE-BOX (DON'T REMOVE THE ORIGINAL PACK) FOR DIAPHRAGMS THAT YOU STOCK IN YOUR STORE. AVOID TO PLACE NEAR AND EXPOSE, DIAPHRAGM, DIRECTLY TO LIGHT AND HOT SOURCE.**

## 3.1 MANUAL ACTUATOR DIAPHRAGM REPLACEMENT



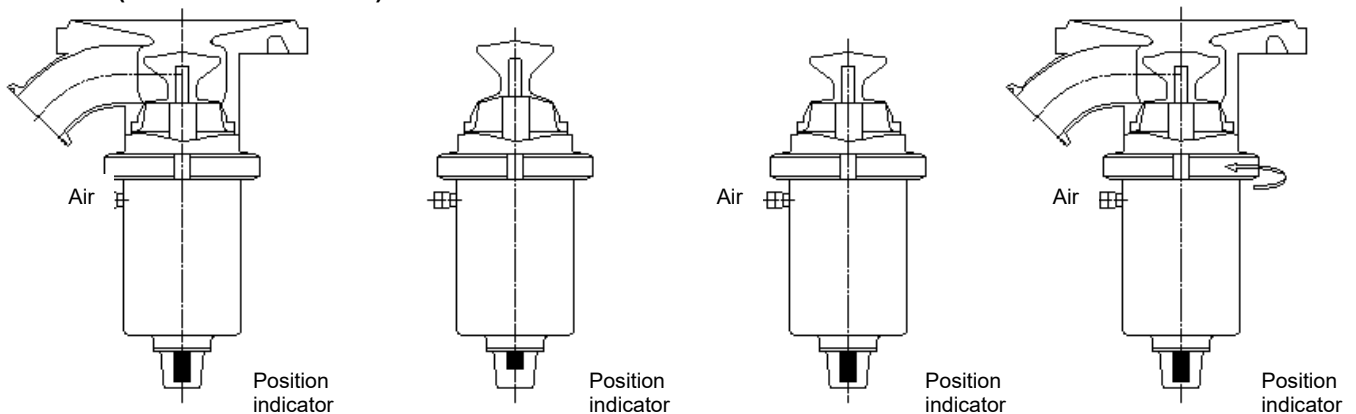
- 1)
    - Turn the handle in counterclockwise direction for completely open the valve.
    - Unscrew the round nut and remove the handle group.
  - 2)
    - Turn the handle in clockwise direction for completely close the valve.
    - Unscrew the rugged wear diaphragm (\*) and replace it.
  - 3)
    - Turn the handle in counterclockwise direction for completely open the valve.
  - 4)
    - Reassembly the handle group on valve body.
    - Screw the round nut and tighten it using the right DIN tool (\*\*).
- (\*) We recommend to screw the diaphragm to the stem when it is completely outside and the valve is on close position. Screw and tighten the diaphragm with the aid of hands only, without any tool.
  - (\*\*) The round nut never must be tighten when the valve is close to avoid any diaphragm damage.
  - After the first sterilization cycle, it is advisable to verify its seal in order to be sure that no leakage are present and if necessary, provide to a new tighten the round nut for another ¼ of circle using the right DIN tool after valve cooling.
  - Restore the service fluid, now the valve is ready to work correctly again.

## 3.2 MANUAL HANDLE DISASSEMBLING



The valve with the manual actuator can be used as an on/off interception valve or as a regulation valve.

## 3.3 PNEUMATIC ACTUATOR DIAPHRAGM REPLACEMENT (NORMALLY CLOSE)



- 1)
  - Feed with the compressed air for open the valve.
  - Unscrew the round nut and pull out the actuator group.
- 2)
  - Remove the compressed air, so the valve close.
  - Unscrew the rugged wear diaphragm and replace it (\*).
- 3)
  - Feed with the compressed air for open the valve
- 4)
  - Reassemble the actuator group on body valve.
  - Screw the round nut and tighten it using the right DIN tool (\*\*).

- (\*) We recommend to screw the diaphragm to the stem when it is completely outside and the valve is on close position. Screw and tighten the diaphragm with the aid of hands only, without any tool.
- (\*\*) The round nut never must be tighten when the valve is close to avoid any diaphragm damage.
- After the first sterilization cycle, it is advisable to verify its seal in order to be sure that no leakage are present and if necessary, provide to a new tighten the round nut for another ¼ of circle using the right DIN tool after valve cooling.
- Restore the service fluid, now the valve is ready to work correctly again.