

OPERATING INSTRUCTIONS FOR BALL VALVES

**Applicable to Split Body Ball Valves type BV4
with nominal diameter DN 15 till DN 300 – NPS 1/2 till NPS 12**

1. Safety

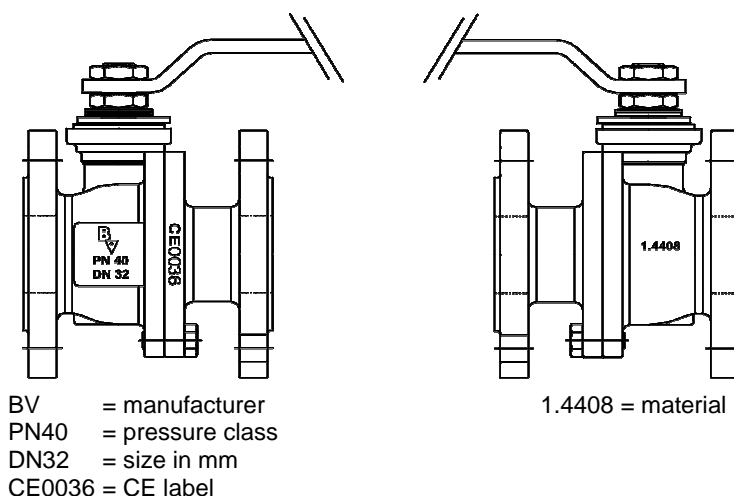
- ✓ For safety reasons, the installation must take place under the supervision of a foreman taking into account the local safety instructions and advises.
- ✓ The operation of ball valves and their controls must be done by staff trained in all aspects of their operation.

2. General remarks

- ✓ In general, the split body ball valve is bi-directional meaning that the valve can be mounted in the pipeline in either way.
- ✓ Do not weld or execute any mechanical working onto the pipeline with the valve in place.

3. Check prior to installation

- ✓ Before fitting the valve between the flanges, make sure that the operating conditions (pressure, temperature and fluid) are compatible with the technical specifications of the valve.
- ✓ Identification of the split body ball valve :



- ✓ ***Before installation make sure that the main is depressurised and purged in order to avoid any danger to the operator.***

4. Installation

- ✓ Remove the plastic protection caps (if any) covering both the flange connections.
- ✓ Check and clean the ball valve before mounting in the pipeline.
- ✓ To ensure that all the moving parts are functioning correctly, the ball valve should first undergo a functional test (open/close).
- ✓ Check if the pipeline is free of welding splashes and slivers of metal.
- ✓ Move the ball valve in its open position before mounting in the pipeline.
- ✓ If the ball valve has a flow-direction indicator, assure yourself of the correct position of the valve.

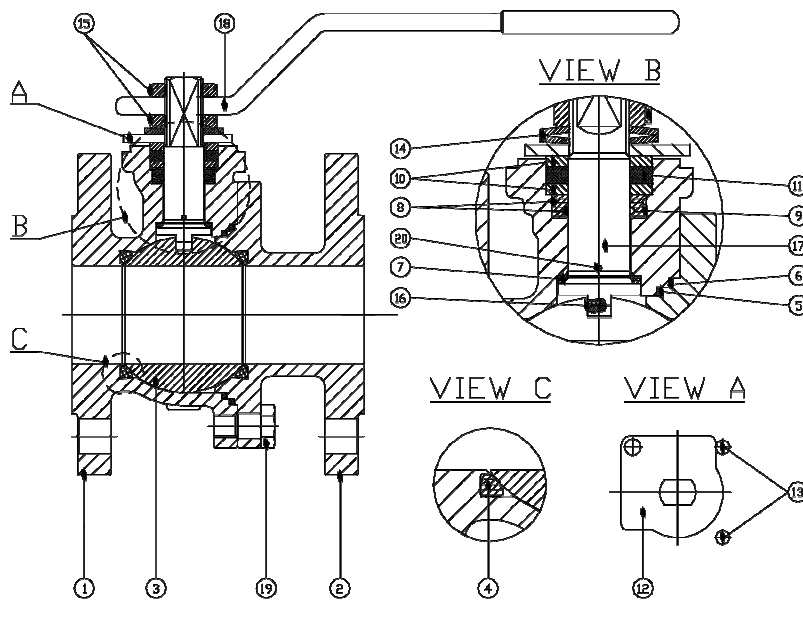
- ✓ Check if the flange connections of the pipeline are parallel with each other.
- ✓ Make sure that the valve fits between the flanges without difficulty. Force apart the flanges with a suitable tool if the fit is too tight.
- ✓ Do not forget to insert a gasket between flange and valve to guarantee a perfect sealing.
- ✓ Check that the bolt-hole-connections are in axial direction of each other.
- ✓ Keep the valve well aligned with the flanges while removing the flange separators and tighten the screws with a torque wrench to assure correct sealing (opposing bolts sequentially).
- ✓ After mounting and inspecting the ball valve in the pipeline, it has to be operated 3 to 5 times to assure proper functioning before using the pipeline.

4. Storage

- ✓ When storing the ball valve do not remove the original packaging and leave the plastic protection caps on both the flange connections.
- ✓ The ball valve has to be stored in open position, inside in a clean, dry place.
- ✓ When storing for a longer period of time, the inner part of the ball valve has to be provided with an oil/fat layer to prevent corrosion.

5. Maintenance

- ✓ Maintain the ball valve regularly according to the frequency of operation, the pressure, temperature and medium passing through the valve. A valve that is operated frequently has to be maintained more often.
- ✓ Make sure the ball valve is manoeuvred at least twice a year.
- ✓ Components are available in spare parts.



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|--------|---------------|
| 1. | body |
| 2. | cap |
| 3. | ball |
| 4. | ball seal |
| 5. | seat |
| 6. | seat |
| 7. | thrust |
| 8. | stem packing |
| 9. | stem packing |
| 10. | packing gland |
| 11. | stem packing |
| 12. | stopper plate |
| 13. | stopper bolts |
| 14. | washer |
| 15. | nut |
| 16. | anti-static |
| spring | |
| 17. | stem |
| 18. | lever |
| 19. | bolt |
| 20. | anti-static |
| spring | |