

INSTALLATION OPERATION AND MAINTENANCE INSTRUCTIONS BALL CHECK VALVE - FLANGED

Working temperature 0 °C/100 °C

Face to face dimensions conform to DIN3202 F6.

WARNING: NEVER PUT HANDS OR ANY OTHER OBJECT IN THE VALVE - SERIOUS INJURIES WILL OCCUR AND VALVE WILL BE DAMAGED.

PRE – INSTALLATION:

To minimize straining of valve body, make sure the mating flanges are: in line, flat, parallel and correct distance apart.

Remove the flange cover and wipe the flange and gaskets with a lint-free, dry wipe. If installing an O-Ring seal flange, apply a light film of grease to the O-Ring and install in the flange O-Ring groove.

INSTALLATION:

For horizontal service, valves should be installed with the inlet and outlet at the same level. The bonnet should be facing upward to allow proper ball action. The arrow on the body must be pointing in the direction of intended flow. For vertical flow up service, install the check valve with the ball end down. The flow arrow should be pointing up.

Use gasket material suitable for the pressure, temperature and media and cut to fit the raised face of the valve. Make sure that no foreign particles enter the valve, proceed with installation. For valve installation proper dimension and length of bolts have to be used. Too long bolts should cause the damage of the body panels, or destroy the seal surface. Lightly grease the flange bolts with high-temperature, non-galling type of grease. Carefully tighten the bolts around the flange using the prescribed torque. Bolts should be tightened gradually in a star or crisscross pattern.

During tightening flange bolts check the compression of the gasket. Value of the required torque depends of: type of gasket, line pressure, bolts type, and bolt lubricant.

STORAGE, PROTECTION, OPERATION, DISASSEMBLY AND MAINTENANCE

STORAGE AND PROTECTION

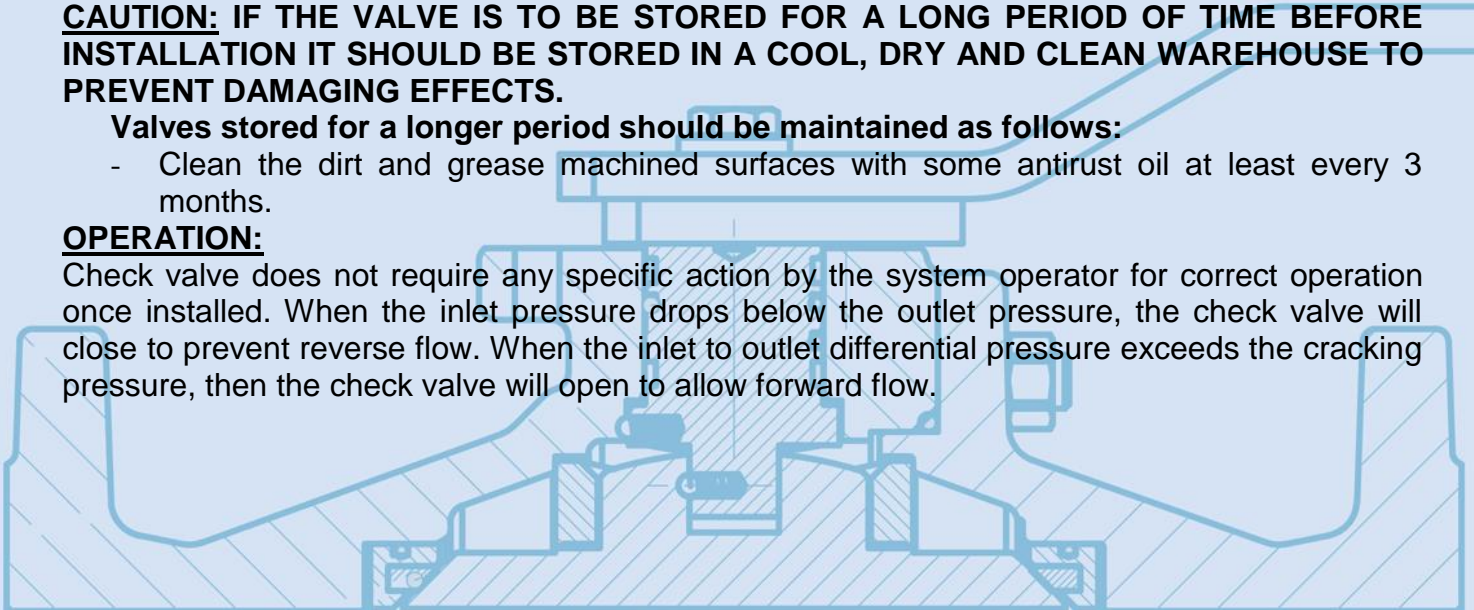
CAUTION: IF THE VALVE IS TO BE STORED FOR A LONG PERIOD OF TIME BEFORE INSTALLATION IT SHOULD BE STORED IN A COOL, DRY AND CLEAN WAREHOUSE TO PREVENT DAMAGING EFFECTS.

Valves stored for a longer period should be maintained as follows:

- Clean the dirt and grease machined surfaces with some antirust oil at least every 3 months.

OPERATION:

Check valve does not require any specific action by the system operator for correct operation once installed. When the inlet pressure drops below the outlet pressure, the check valve will close to prevent reverse flow. When the inlet to outlet differential pressure exceeds the cracking pressure, then the check valve will open to allow forward flow.



DISASSEMBLE AND MAINTENANCE:

- Before disassembly or maintenance, assure that the pressure is not present in the pipeline.

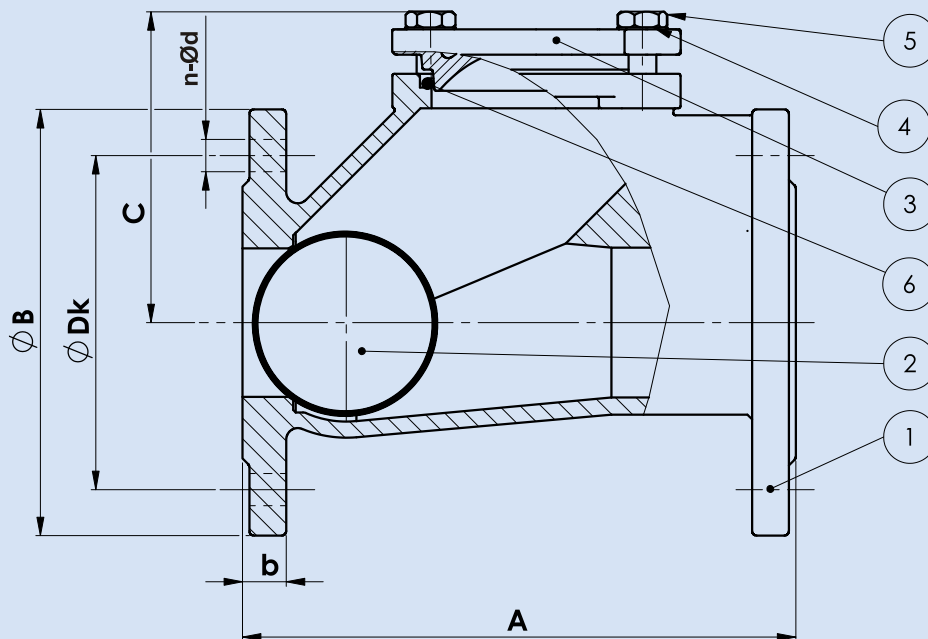
- Dismantle the bonnet bolt and nut.

To check and maintain the valve that it is being used for a period, the main items as the following:

- Check the wear of the seal surface. Once it is damaged, it shall be repaired or replaced.

- Check the bolts and nut, assure tight connection.

- Check for eventual damages or abnormalities. If necessary, parts have to be replaced. Before replacement make sure pressure is not present in the system.



1	Body	Ductile Iron – GGG40
2	Ball	Aluminium NBR wrapped (DN50 – DN150) Steel NBR wrapped (DN200)
3	Bonnet	Ductile Iron – GGG40
4	Washer	Carbon Steel Zinc plated
5	Bolt	Carbon Steel Zinc plated
6	O-Ring	NBR

