

installation and operating instruction for butterfly valves type BU2, BU4, BU6, BUL

1 general

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- 1.1 These instructions must be stored and consulted by installers and by personnel doing routine and extraordinary maintenance.
 - 1.2 Please read the following instructions carefully before making any installation of butterfly valves.
 - 1.3 Before making any valve maintenance, always check if there is no pressure, shut off the the valve's up- and downstream line.
 - 1.4 Please note the information given in the present instructions as well as the application conditions and admissible data indicated on the imprints / type plates of the respective devices.
 - 1.5 The valve must not be modified; any tampering could make the device dangerous for man and machine.
 - 1.6 Damages caused from the non-observance of these instructions are not covered in the warranty.
 - 1.7 The manufacturer of this product and STASTO declines all responsibility and warrantee on the valves repaired and/or opened from any third party. We are not liable for any damage caused by non-observation of this information as well as in case of improper intervention regarding this device.
 - 1.8 This product must be used only for its specific intended purpose. Any other use is potentially dangerous. This can have the effect that the physical and / or chemical properties of the used materials or seals for the intended purpose are insufficient.
 - 1.9 IF damages occur, the affected parts must be replaced immediately by qualified personnel.
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2 general information

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- 2.1 Before shipment the surface of the liners are lubricated with silicone grease and/or oil.
 - 2.2 If the liner and disc have to be silicone-free for specific uses (for example hydrogen, oxygen, chlorine, etc.), the silicone can be removed with appropriate solvents or other suitable cleaning and degreasing products.
warning: torque increase!!
 - 2.3 Before mounting the system, check that there is no dirt in the pipe or the valve housing.
 - 2.4 Make sure that the pipe is tension free. If there is any stray current, equip the valve with an antistatic device.
 - 2.5 Do not use the valve as a lever to widen the flanges. This may result in a damage to the seat and/or sealing during installation or operation of the product.
 - 2.6 When installing on a new system, use the valve as a spacing element. Spot-weld the flange and piping, remove bolts and valve before completing the welding. Do not complete welding of the flanges to the pipe with the valve bolted between the flanges. This will cause serious heat damage to the seat.
 - 2.7 Please observe the information given in the present operating instructions as well as the application conditions and admissible data indicated on the imprints / type plates of the respective devices. Also printed on the type plate is the declaration of conformity CE and an ATEX-marking in accordance with the directive 94/4/EC (ATEX) for operation in explosive atmospheres.
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3 ATEX informations

3.1 Only valid for valves marked with directive 94/9/EC (ATEX):

The valves marked in accordance with directive 94/9/EC can be used where it is probably to have explosive atmosphere in presence of vapour, fog, gas or dust.

installation area

category	area, atmosphere		protection class	temperature class
2	1, gas	21, dust	constructional safety "c"	T5 (max. surface temperature 100°C)

area 1 (gas) and 21 (dust): The explosive atmosphere is likely to occur occasionally in normal operation.

warning: The valve has not been designed to be operated in areas where the risk of getting explosive atmosphere frequently or during long periods is high (area 0).

The valves have to be used in ambient temperature from -20°C to +40°C.

Compare indications of the label with operating data (explosion atmosphere type, admissible ambient and surface temperature).

The housing must be grounded via an electrically conductive connection.

3.2 type plate

Type	DN	PN
Body	Disc	Seat
○ Year	Serial N°	○
P. max Bar	T°C min.	max
		

MA-AT

MA-AT = ATEX-label according to directive 94/9/EC

4 stocking

4.1 valves with soft seal

If the valves are not installed immediately, they should be stored in a closed and dry room.

If the valve remains in the warehouse for a long time or connected to the piping for an extend period without being used, it is advisable to leave the disc halfway open and apply a suitable lubricant (vegetable oil for EPDM; silicone grease for all others) to the elastomer seats.

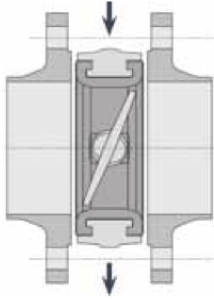
4.2 valves with PTFE seal

If the valves are not installed immediately, they should be stored in a closed and dry room.

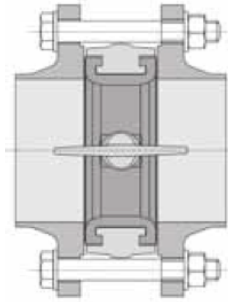
If the valve remains in the warehouse for a long time or connected to the piping for an extend period without being used, it is advisable to leave the disc halfway open and then open and close it several times before installation.

5 mounting

- 5.1** Leave enough space between flanges and the valve to insert and remove the valve easily.

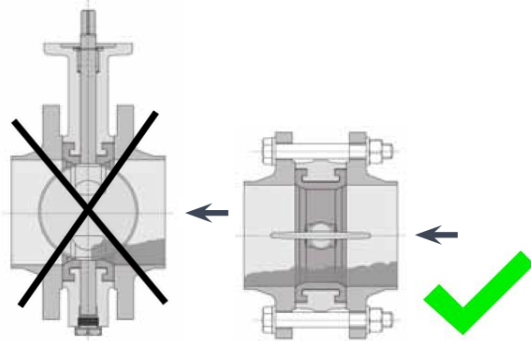


- 5.2** Open the valve completely before tightening the flanges.

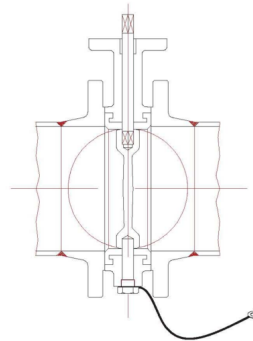


- 5.3** Tighten the bolts until the flanges make contact with the valve body. To prevent leaks, the bolts must be cross-tightened by applying an adequate torque. information: After completing the installation successfully, check the tightness of the system.

- 5.4** In case valve is used for muddy fluids or solids, install the valve with horizontal rotation axis so that sediment will flow freely when the valve is opened.



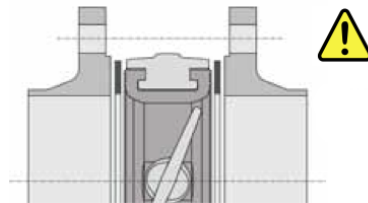
- 5.5** grounding (if necessary): The grounding cable has to be protected. The connection to the ground has to be welded, bolted or made by other efficient systems.



- 5.6** warning: On a pipe as shown it is possible to assembly only valves with vulcanized liner.



- 5.7** Possible errors: Do not insert other gaskets between valve and flanges.



The latest instructions can be found under www.stasto.eu in our STASTO Store.

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