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Maintenance and repairing

- Maintenance of the ball valve is not necessary
- Carry out repairing and dismantling of accessories according to the operation manual from the manufacturer of the accessories
- Repairing and disassembly of the ball valve may only be carried out by the manufacturer
- Broken parts have to be exchanged immediately by professionals

Dismounting from the plant



Take care, that the ball valve is in an open position

- Discharge pressure of the plant and lower media temperature down to room temperature
- Turn ball valve into an open position
- Dismounting from plant only by professionals
- Protect fittings from being twisted. If necessary, counter them!

*

The security locking handle has a single arrester for the close position and also a double arrester to secure the open- and close- position.

The single arrester is constructed for plants which have to be turned off by everybody in an emergency case. In this case the ball valve can easily be closed by normal switching.

This intuitive way of acting saves time. The security handle will automatically be arrested in the close position after the 90° turn.

By using the double arrester the handle has to be pulled everytime. The spindle will release so that the switching is possible. In the endposition, the security locking handle arrests automatically.

An additional change from the double arrester to the single arrester is possible through an easy flip of the security locking handle.



Rudolf von Scheven GmbH
 Armaturenfabrik und Apparatebau
 Wuppertaler-Str. 10-12 45549 Sprockhövel
 Telefon +49 (0) 23 24 / 97 42 – 0
 Telefax +49 (0) 23 24 / 97 42 – 10
 www.von-scheven.de
 E-Mail: info@von-scheven.de

Operation- and assembly instruction for two-way ball valves with security locking handle



Type:

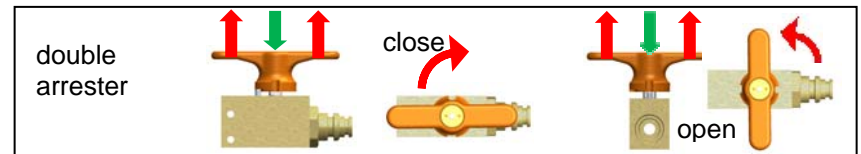
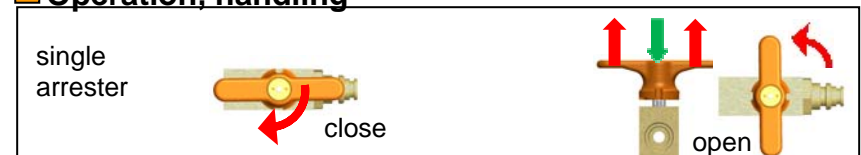
**NBA, NBI, NSKA, NSKI,
 HBA, HBI, HSKA, HSKI,
 SI, SIB, SIBK,
 HBP and HBPD SIBK
 (only up to DN25)**

Technical Data



Please take the technical data from the type label and the declaration of conformity.

Operation, handling



By pulling the security locking handle (red arrow) and press on the brass nut (green arrow), the spindle will release so that the switching is possible. The security locking handle will automatically be adjusted after the 90° turn.*

Safety instructions

Source of danger	Consequences	Preventive measure
Demands because of overpressure and temperature	Internal and external leakage, break-up of the ball valve.	Keep attention on maximum allowed operating pressure and temperature
Increase of pressure because of thermal expansion	Internal and external leakage, break-up of the ballvalve	Safety devices are necessary in order to avoid pressure exceeding
Demands and requirements by aggressive medium	Internal and external leakage, break-up of the ballvalve	note the resistance tables
Demands and requirements by corrosion	Internal and external leakage, break-up of the ballvalve	If corrosion is to be expected, inspect the wall thickness of the endangered parts regularly.
Demands and requirements by erosion	Internal and external leakage, break-up of the ballvalve	Lower flow velocity; If erosion is to be expected, inspect the wall thickness of the endangered parts regularly.
Influences from the environment of the plant	External leakage; break of the fittings	Decrease reaction forces of pipelines, fixings, filling weights, wind, earth quakes, etc. Protect from being hit while mounted overground or covered with earth
Demands in case of fire	Internal and external leakage, break-up of the ballvalve	Protect endangered parts, e. g. by safe distance or by fire protection insulation
When ballvalve is used as an outlet valve	If not proper used, risk of injury by leakage of media	Install Safety devices against uncontrolled opening; keep safe distance; operation only by authorized professionals.
While working in pipe systems with automatic ballvalves, risk of uncontrolled operation	Media flow may accidentally be freed or shut off	Turn off controlling energy of the actuators and mind the operation manual of the attachment parts.

■ Installation

- Protect fittings from being twisted. If necessary, counter them!
- Installation only by professionals.
- If an arrow \longrightarrow is shown on the ballvalve it must be installed in this flow direction.
- Installation of possible attachment parts only by professionals according to the operation manuals, declarations of conformity and safety instructions of the manufacturers of those parts (actuators, limit switches etc.)
- Aluminium-cases (e.g. of pneumatic actuators) in mining applications have to be protected by steel-hood from the risk of producing sparks as a result of friction or blow.



Remove the protective caps



Assembly in open position

■ Start-up

- before start-up remove all parts which don't belong to the ballvalve from inside
- Start-up only by professionals
- Start-up of possible attachment parts only by professionals according to the operation manuals, declarations of conformity and safety instructions of the manufacturers of those parts (actuators, limit switches, etc.).
- Operation of the armature only in fully opened or closed position.
- While operated in explosives areas, ballvalves have to be protected from overheating as a result of solar radiation by applicable protection mechanisms.