Exchange of the Ball Sealing Ring

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If the sealing face of the sealing ring (20) is damaged or worn, the ring must be exchanged. When placing the spare parts order, please indicate the identification No. of the Ball Valve.

Close the Ball Valve (straight passage), securely lock the actuator and dismantle the body outlet (30).

Check the seating faces of the two body seats and repair if necessary.

Remove socket head cap screws (22), clamping ring (21), back-up ring (18), sealing ring (20) and O-ring (19).

Clean the groove for receiving the sealing ring in the ball (10), if necessary apply a new prime coat and grease well and evenly. If there are any hairs from the brush on the surface, remove them. The grease used for this purpose must not attack the prime coat or the O-ring and has to be approved for potable water, if necessary. As a standard, we use lubricant "Klübersynth VR69-252".

Insert back-up ring (18) into sealing ring (20). The sealing ring must have ambient temperature (approx. 20 °C). It must still be possible to move the sealing ring on the back-up ring by a strong push of the thumb. Push new O-ring (19) on back-up ring. The O-ring has to sit close on the back-up ring. Insert complete sealing package (18, 19, 20) into the ball (10). Avoid damages to the sealing face of the
sealing ring. Mount clamping ring (21), fully screw-in socket head cap screws (22) with removable securing agent, e.g. Loctite CV No. 83. Afterwards slacken them by half a turn.

Insert new round cord ring (29) and mount body outlet (30).

Afterwards move the ball into the seat.

**The sealing ring has to fit closely at the circumference of the body seat.**

For centering the sealing ring, it must be moved to-and-fro in the seat at least 3 times by means of the actuator.

During this procedure, the sealing ring must remain in the seat.

Afterwards the socket head cap screws (22) have to be securely tightened and the threaded pins (23) screwed in with the above-mentioned securing agent.

This design does not need any adjustment for tightness in closed position as the ball sealing ring is automatically forced onto the body seat by the working pressure.

### 1 Storage of the Sealing Rings

Avoid outdoor storage of the sealing rings. During the storage period, the sealing rings have to be protected against external influences and dirt, e.g. by covering them with a tarpaulin. If long-time storage is required, the place of storage should be selected in such a way that the following conditions are met: frost-protected – cool – dry – dust-free – protected from draft – dark. If these conditions are impossible to meet, the sealing rings have to be packed in such a way that the packing complies with the above requirements, e.g. they have to be sealed inside dark plastic sheet.

The sealing rings have to be stored flat. If they are "**upright**", their own weight will deform them.