Operating Instructions

ERHARD Ball Valve
with “H“-shaped sealing ring

Exchange of the Ball Sealing Ring

The Operating Instructions for Ball Valve and actuator must also be adhered to!

1 Exchange of the Ball Sealing Ring
2 Storage of Sealing Rings

1 Exchange of the Ball Sealing Ring

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 specify the internal identification No. of the Ball Valve.

Ball Valve without Inspection Orifice:
Close the Ball Valve, securely lock the actuator and dismantle the body outlet (30).

Ball Valve with Inspection Orifice:
Open the Ball Valve, securely lock the actuator and remove the cover (55).

Check face of body seat (31) and mend it if necessary.

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

Clean the groove for receiving the sealing ring in the ball (10), if necessary apply a new prime coat and grease good and evenly. If necessary remove hairs of the brush. The used grease must not affect the prime coat or the O-ring and has to be approved for potable water, if necessary. As a standard, we use lubricant "Klüber USBB312".
Operating Instructions ERHARD Ball Valve (Exchange of the Ball Sealing Ring)

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. Put new O-ring (19) on back-up ring. The O-ring has to sit close to the back-up ring. Insert complete sealing package (18, 19, 20) into ball (10). Avoid damages to the sealing face of the sealing ring. Mount clamping ring (21), fully screw in socket head cap screws (22) and threaded pins (23) with removable securing agent, e.g. Loctite CV No. 83. Afterwards slacken them by half a turn.

Insert new round cord ring (29) or (58) and mount body outlet (30) or cover (55).

Afterwards seat the ball.

The sealing ring has to fit closely to the periphery of the body seat.

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

Note: In case of special designs, the body seat ring (31) can be exchanged, too. In this case, the O-rings between body outlet (30) and seat ring (31) have to be replaced, too.

2 Storage of the Sealing Rings

Avoid outdoor storage of the sealing rings. During the storage period, the sealing rings have to be protected against outside influences and impurities, 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 welded in dark foil.

The sealing rings have to be stored in a “lying“ manner on a flat plane; if they are “standing“ their own weight will distort them.
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