1 Readjustment of the Ball Sealing Ring

If the Ball Valve is leaky in the closed position without the ball sealing ring being damaged, the contact pressure of the profile ring (20) acting on the body seat ring (31) may be increased.

Valve without inspection cover:
Close ball valve, securely lock the actuator and remove the pipe behind the body outlet part (30).

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

Slacken the threaded pins (23) by about one turn and carefully retighten the socket head cap screws (22) all around. This action moves the profile ring's (20) sealing lip towards the body seat ring (31). Tighten the threaded pins (23) and securely retighten the socket head cap screws (22).

For sizes DN 80 - DN 300, use a screwdriver with pivot for the socket head cap screws (22), if necessary.

Mount the pipeline or - for valve with inspection cover - insert a new round cord ring (58), if necessary, and mount the cover (55). Unlock the actuator.
2 Exchange of the Ball Sealing Ring

If the profile ring (20) is damaged, it must be exchanged. Please, submit the Ball Valve identification No. when you order spare parts.

Valve without inspection cover:
Close the ball valve, securely lock the actuator and remove the body outlet part (30).

Valve with inspection cover:
Open the ball valve, securely lock the actuator and remove the cover (55).

Screw off two opposite threaded pins (23). The remaining threaded pins must remain in their position serving as stops. Screw off the socket head cap screws (22). Remove the clamping ring (21) by force. This can be done by screwing two socket head cap screws (22) into the free threads of the clamping ring (21). Depending on the service condition, the profile ring (20) may be loose or vulcanized on the ring. If the profile ring (20) is vulcanized on a metallic ring mounted in the ball plug (10) it must be removed by means of a corresponding lever tool. For this purpose, grooves are provided in the ball plug (10).

If the clamping ring (21) has to be exchanged, too, first measure the dimension from the spigot of the threaded pins (23) up to the lower edge of the former clamping ring (21). The threaded pins at the new clamping ring have to be adjusted to the same dimension.

Insert the profile ring (20), screw-in and tighten the socket head cap screws (22), then securely retighten the threaded pins (23). Screw-in the socket head cap screws (22) and threaded pins (23) with soluble securing agent, e.g. Loctite CV No. 83.

Profile rings which are loose or vulcanized on the clamping ring (21) have to be wetted with water in order to improve their sliding quality. With some types, when tightening the clamping ring (21), the loose profile rings are twisted in themselves by about 45°.

For sizes DN 80 to DN 300, a screw driver with pivot, has to be used for the socket head cap screws (22), if necessary.

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

Shouldn't the valve be tight yet in closed position, the profile ring (20) has to be re-adjusted as described under "Readjustment of the ball sealing ring".

Note: In special cases, the body seat ring (31) can be exchanged, too. For this purpose, the O-rings between the body outlet part (30) and the seat ring (31) must also be replaced.