

MANUAL

Angle seat valve AL 11-7010

Instruction for 2/2 valves spring closes DN 15-50

These instructions also apply to DN 65-80 valves with threaded ends and to flanged valves. Refer to respective sectional drawings.

I. Disassembling the valve

1. Disassembling the actuator

Unscrew and remove the position indicator (36). Insert the assembling tool (part 4010408 for actuator D 50, 4010409 for actuator D 80/D 125) into the bonnet and screw it onto the nut (14). Compress the spring (10) by turning the assembly tool knob until the seating seal (5) lifts off from valve seat. Unscrew the actuator from the valve body (1). Remove the circlip (25) with right-angled circlip pliers (actuator D 125: remove locking screw (27) first). Turn the knob anticlockwise to release the piston spring (10), while ensuring that the assembling tool is not unscrewed from the nut (14). The assembling tool should be removed after the piston spring is released.

2. Disassembling the complete head section

Loosen the disc nut (6) by simultaneously holding the piston rod nut (14). Pull out piston rod from head section. Clamp flange (15) in a swivel vice (N.B. do not clamp the sealing surfaces 52 mm (D 50), 82 mm (D 80), 130 mm (D 125)) and unscrew head section (2) from the flange (15). Push out the guide sleeve (34) and other packing using an assembling pin (part 4010410).

II. Assembling the valve

1. Assembling the complete head section

Clean head section with white spirit or other suitable solvent. Insert the guide sleeve (34) and other packing in the order shown in the sectional drawing. The conical seals (31) should be lubricated individually before assembly using Barrierta L 55/3 HV grease by Klüber). Insert interior lip seal into the flange and lubricate with grease as above. Apply a few drops of LOCTITE 640 onto the first thread M28 x 1.5, insert slotted washer (7) into flange (15) and screw tightly onto head section sub-assembly.

Apply several drops of LOCTITE 640 onto the piston rod thread (13) (N.B. check drawing to ensure it is the correct end). Place piston (9) onto piston rod (13) and secure with nut (14) hand tight.

Grease piston rod (13) sparingly using Barrierta L 55/3 HV and insert carefully into the head section. Apply a few drops of LOCTITE 640 onto the thread at the other end of the piston rod (13). Fix disc (4), seating seal (5) and washer (6a) using disc nut (6) and screw tightly by simultaneously holding nut (14).

2. Assembling the complete valve

Clean bonnet (8) with a suitable solvent. Insert the O-ring (17) into the bonnet and the exterior lip seal (11) into the piston (9) and lubricate with Unisilikon L 250 L (Klüber). Place the spring(s) (10) on the piston (9) and cover with bonnet (8). Screw assembly tool into nut (14) and turn knob to tighten spring (10) until the circlip (25) can be mounted (N.B. ensure that the circlip is fully inserted into its groove!).

For D125 actuator only: insert locking screw (25) into bonnet (8) and cover with paint.

Place head section seal (3) onto head section and screw sub-assembly into body (1). Remove assembly tool and screw in the position indicator (36).

III. Tools

For inserting and removing the circlips we recommend an angled circlip pliers such as:

50/80 mm actuator : [Seeger ZGJ-31 pliers](#)

125 mm actuator: [Seeger ZGJ-41 pliers](#)

These pliers can be obtained as follows:

[50/80 mm actuator](#) [part 4010 411](#)

[125 mm actuator](#) [part 4010 412](#)

Special tools available

[assembly tool D50](#) [part 4010 408](#)

[assembly tool D80](#) [part 4010 409](#)

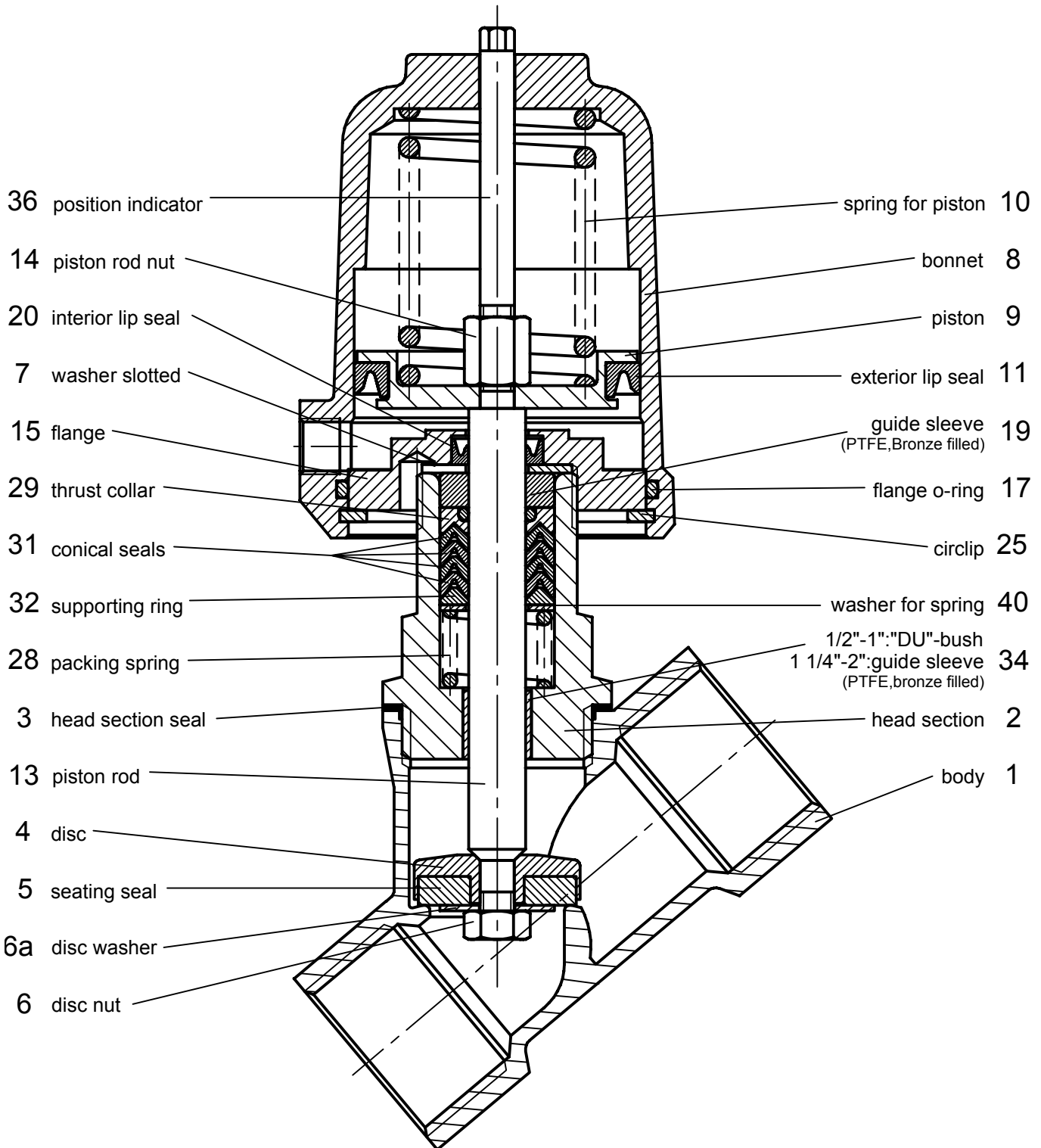
[assembly tool D125](#) [part 4010 410](#)

Sectional drawings attached:

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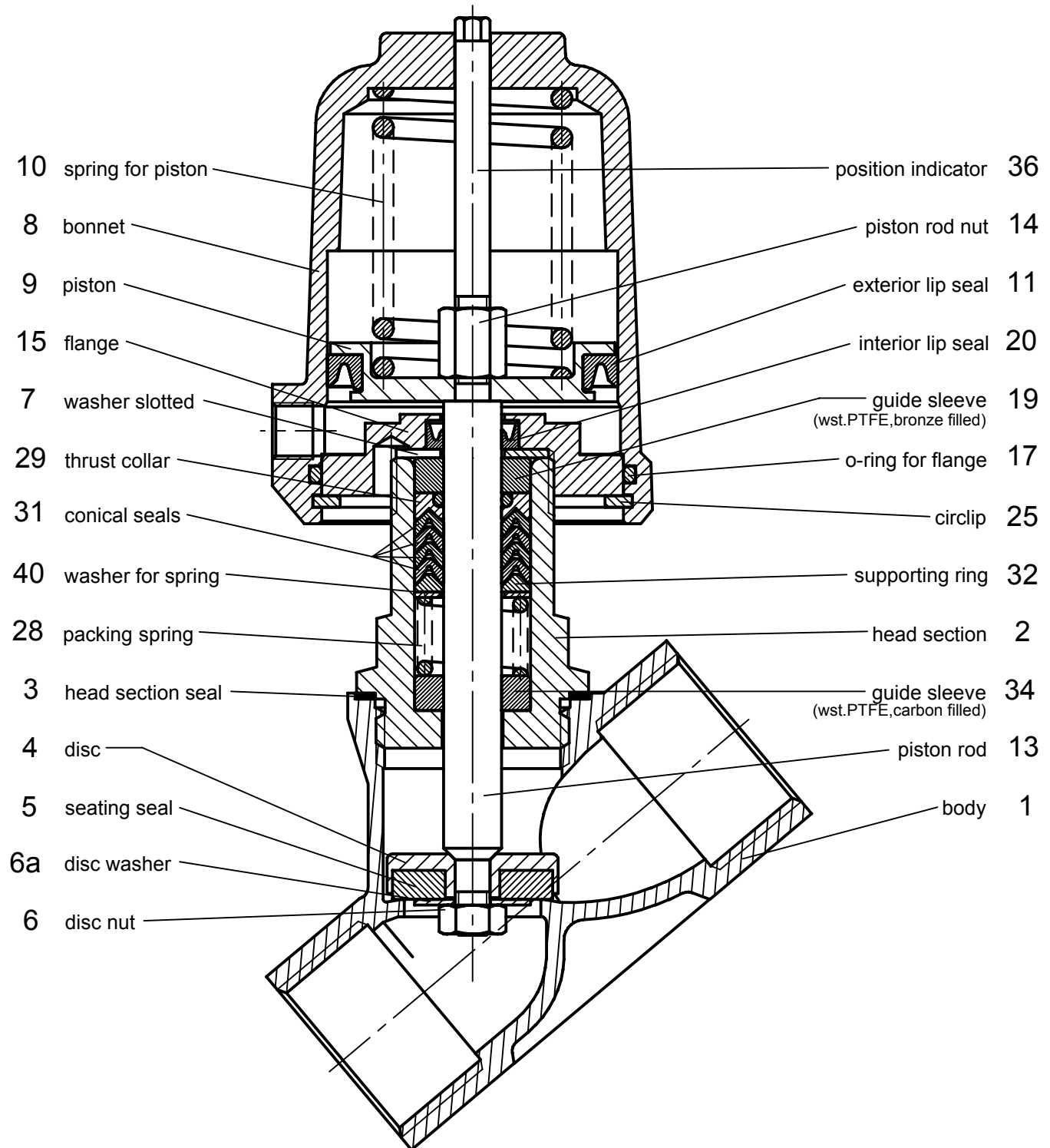
Spare parts - brass and broze valves, spring closes



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Spare parts - stainless steel valves, spring closes



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Angle seat valve AL 11-7010

Spare parts - valves DN 65-80

