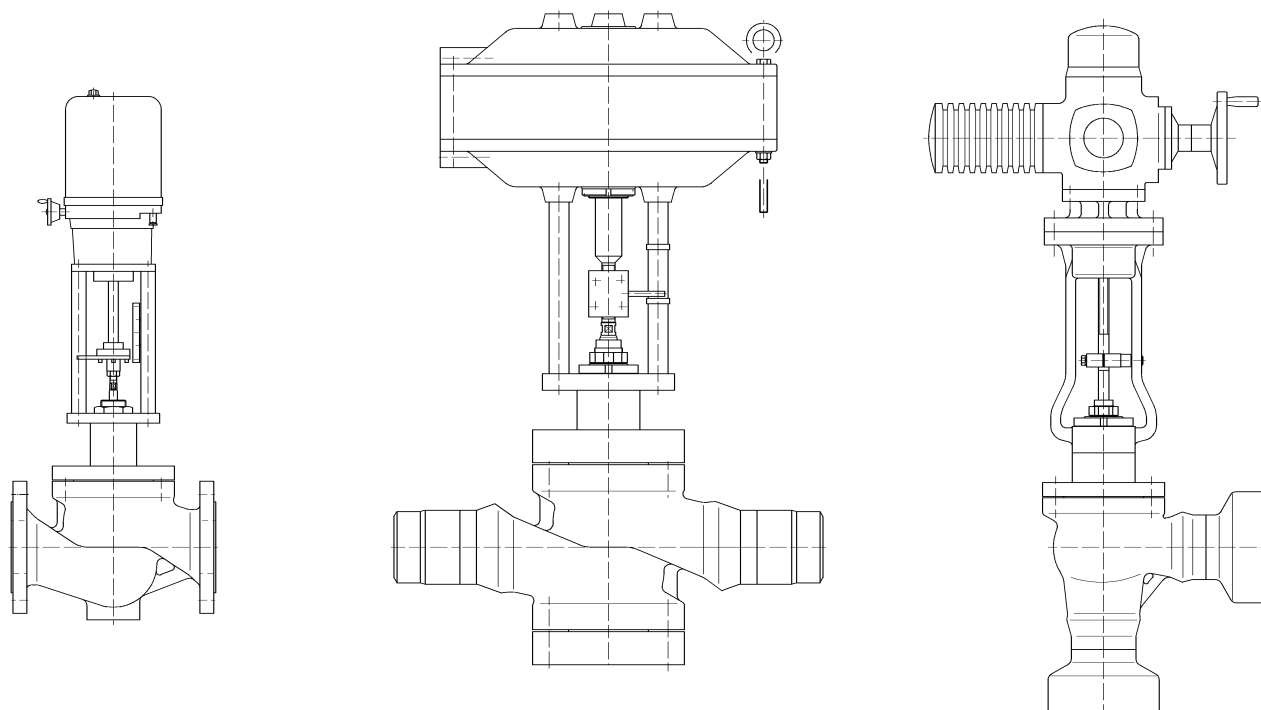




# Operating Instructions

## Valve-Type 01 / 05 / 07 / 16



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## 1 Address of Manufacturer

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## 2 Right to alteration and copyright

Any regulations, guidelines, norms etc. stated in these operating instructions correspond to the state of information during preparation and are not subject to alteration services. It is the responsibility of the operator to ensure that the latest version is used at all times.

The company reserves the right to carry out technical alterations and improvements in connection with any technical data, statements and images in these operating instructions at any time. Claims for alterations or improvements on already delivered valves will be excluded.

Copyrights for these operating instructions as well as any rights referring to the possible grant of a patent, or utility-patented articles, shall remain the property of the manufacturer.

## 3 Comments on Valve-Type

Valve-Type	Specification	Possible classifications
01	Straight pattern type up to PN 40 / Class 300 Flanged cover	1312; 1313
05	Straight pattern type up to PN 160 / Class 900 Flanged cover	1312; 1313 1332; 1333
07	Straight pattern type up to PN 320 / Class 1500 Flanged cover	1322; 1323
16	Angle pattern type up to PN 320 / Class 1500 Flanged cover	1312; 1313 1332; 1333

## 4 Validity of operating instructions

This operating instruction only apply with the "General Operating Instructions Valves Business Unit Power Technology".

This operating instructions only apply to the valves type 01, 05, 07 and 16.

Please check that type designation and nameplate of valves match **before** any measures are taken, especially when ordering any accessories or spare parts!

## 5 Use and specifications

The valves provide processes for the flow or shut it up.

The valves consist of the valve itself and the valve operating gear which changes the position of the flow restrictor (plug) to the seat in accordance with the control unit.

Possible means of actuation are pneumatic and electric linear activator attachments which cause an axial shift of the cone. Also suitable are multiturn actuators which transform the slewing motion into axial motion and manual adjustments.

Valves of the line of products described here are used for the regulation or controlling of substance currents consisting of gas, steam or liquids. This is achieved in single stage or several stage models. These models can be unloaded or loaded. Typical types of seats are the screwed seat (Figure 1a), the screwed seat with perforated cage (Figure 1b), the screwed seat with armoured thread (Figure 1c), the jammed seat (Figure 1d), the direct armoured seat (Figure 2a), the welded seat (Figure 2b), the screwed and welded seat (Figure 2c) and the pressed seat (Figure 2d).

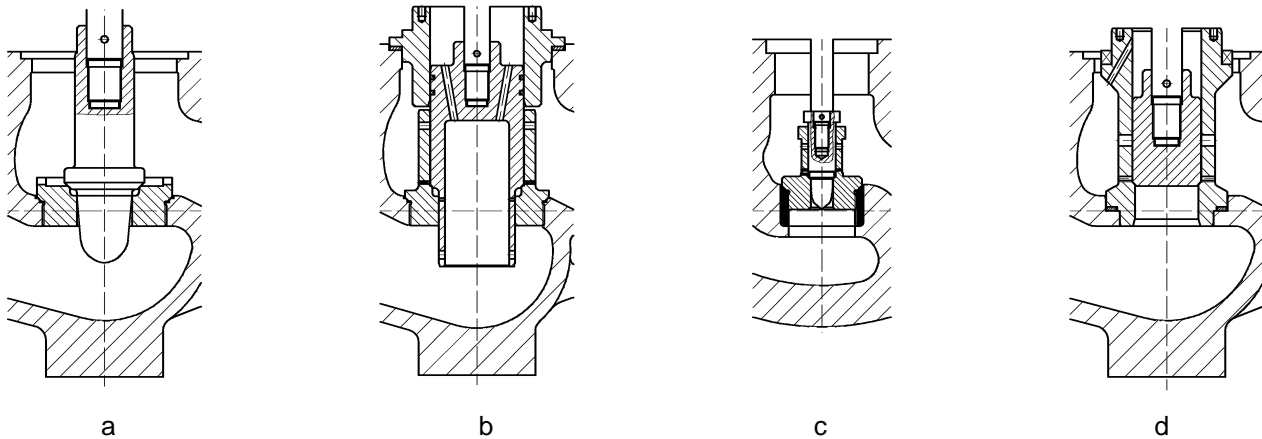


Figure 1: Changeable seats

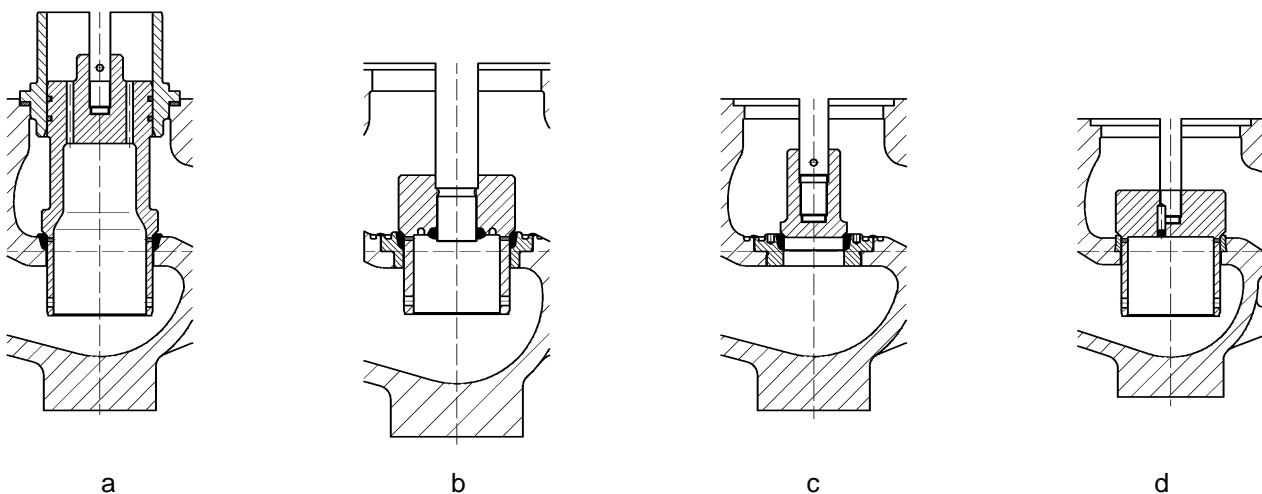


Figure 2: Not changeable seats

## 6 Sectional drawings

The sectional drawings below show examples of the basic construction of valves.

### 6.1 Example Valve-Type 01 and 05

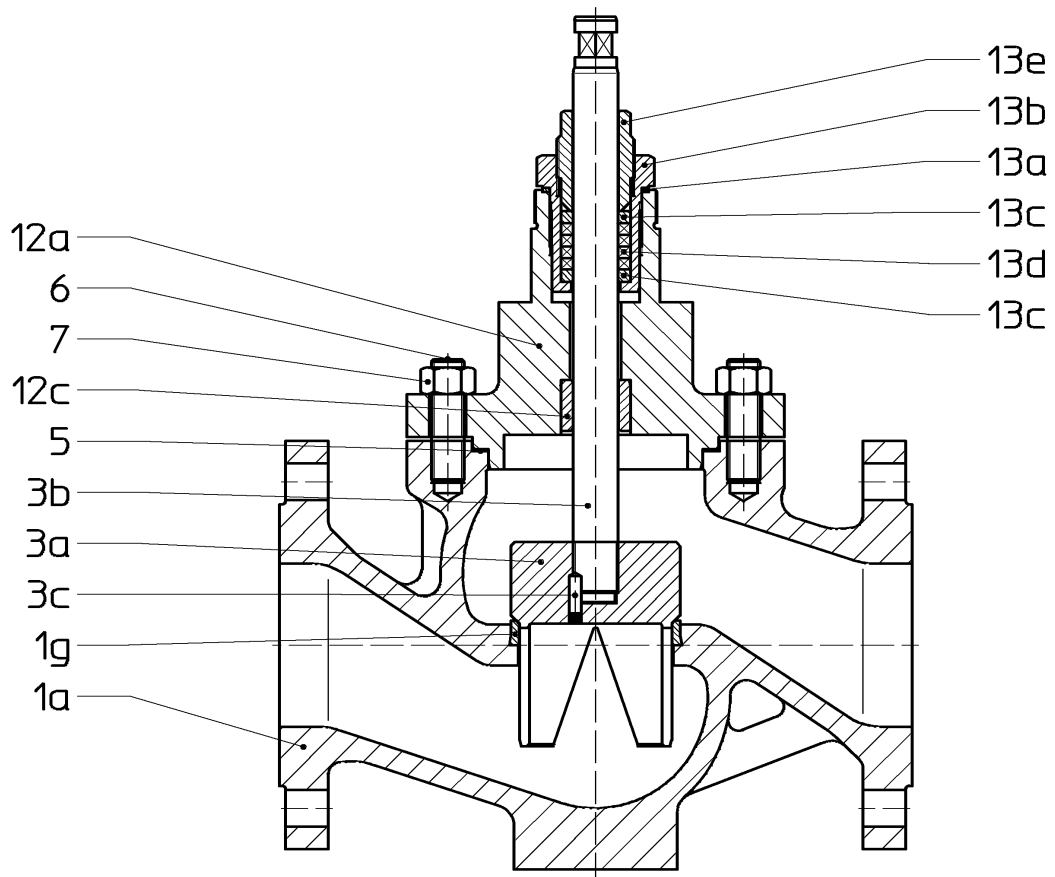


Figure 3: Valve 1313-01

Position	Designation	Position	Designation
1	Body consisting of:	12	Bonnet consisting of:
1a	Body	12a	Bonnet
1g	Valve seat	12c	Guide bush
3	Plug with stem consisting of: *	13	Stem packing consisting of:
3a	Plug	13a	Gasket *
3b	Valve stem	13b	Screw fitting
3c	Cylindrical pin	13c	Bottom ring
5	Gasket *	13d	Stem packing *
6	Stud bolt	13e	Pressure bush
7	Hexagon nut		

\* = spare parts

Table 1: Parts list of figure 3

## 6.2 Example Valve-Type 07

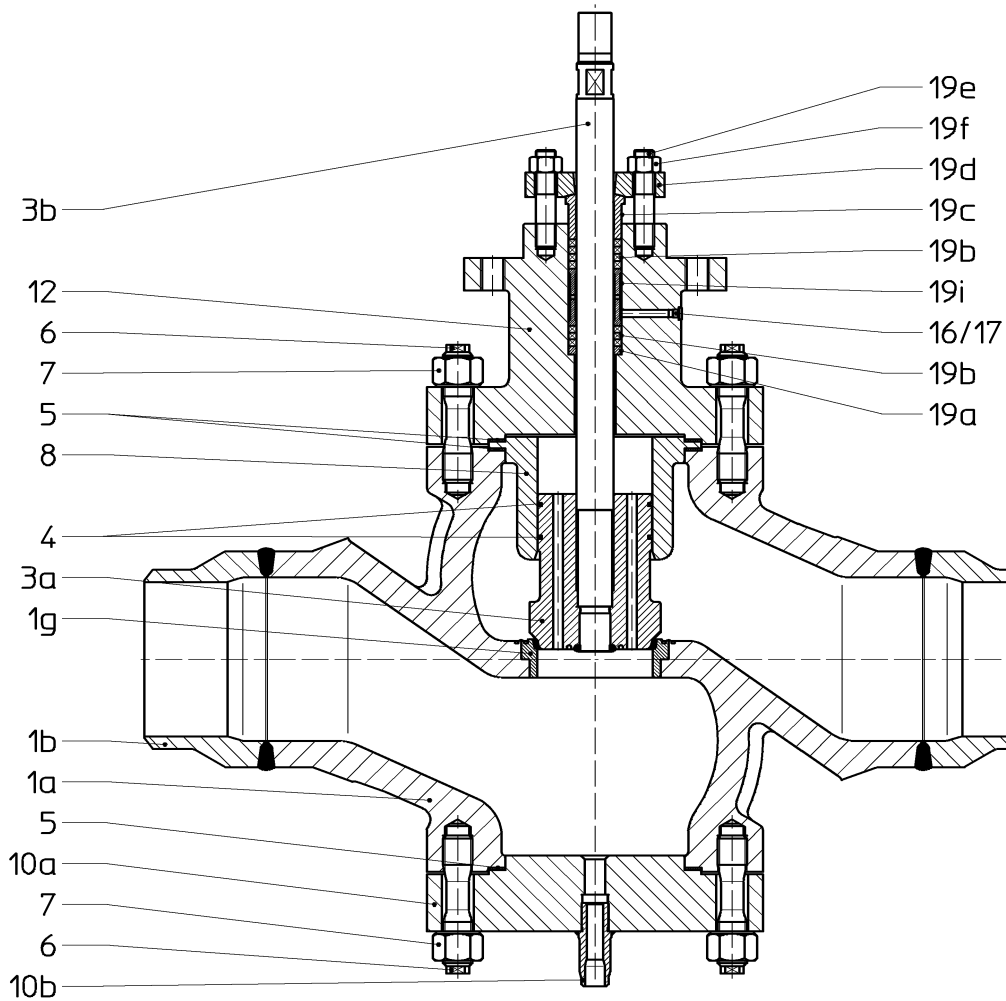


Figure 4: Valve 1323-07

Position	Designation	Position	Designation
1	Body consisting of:	10a	Cover flange
1a	Body	10b	Draining muff
1b	Buttweld end	12	Bonnet
1g	Valve seat	16	Gasket *
3	Plug with stem consisting of: *	17	Lock screw
3a	Plug	19	Stem packing consisting of:
3b	Valve stem	19a	Bottom ring
4	Piston sealing *	19b	Stem packing *
5	Gasket *	19c	Stuffing bush
6	Stud bolt	19d	Stuffing bush flange
7	Hexagon nut	19e	Stud bolt
8	Guide bush *	19f	Hexagon nut
10	Cover flange consisting of:	19i	Sealing water ring

\* = Spare parts

Table 2: Parts list of figure 4

### 6.3 Example Valve-Type 16

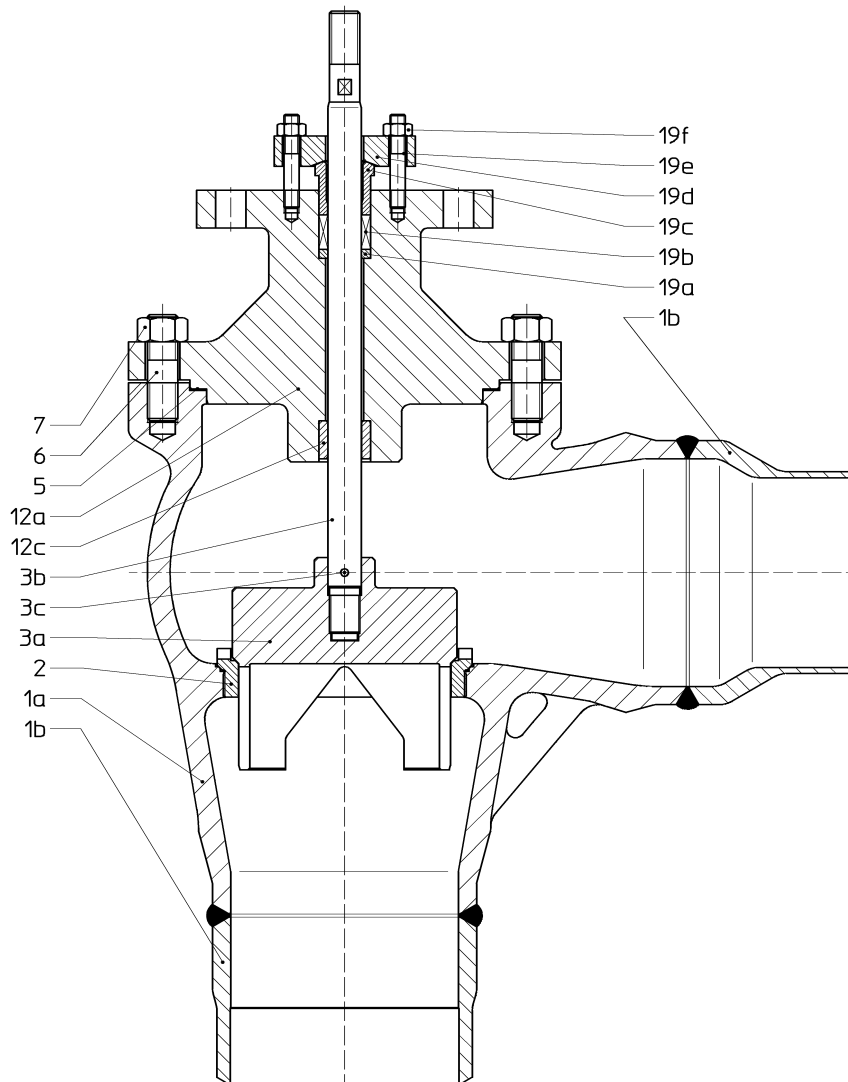


Figure 5: Valve 1313-16

Position	Designation	Position	Designation
1	Body consisting of:	12	Bonnet consisting of:
1a	Body	12a	Bonnet
1b	Buttweld end	12c	Guide bush
2	Valve seat *	19	Stem packing consisting of:
3	Plug with stem consisting of: *	19a	Bottom ring
3a	Plug	19b	Stem packing *
3b	Valve stem	19c	Stuffing bush
3c	Cylindrical pin	19d	Stuffing bush flange
5	Gasket *	19e	Stud bolt
6	Stud bolt	19f	Hexagon nut
7	Hexagon nut		

\* = Spare parts

Table 3: Parts list of figure 5

## 7 Handling

Figure 6 shows examples of handling methods during the fitting of valves.

In figure 6 a the straps have to be wound round the body. To keep the valves in the position shown and to prevent vertical tipping, the straps have to run along the left and right hand side of the actuator.

In figure 6 b and c the straps have to be wound round the body. Strap 3 is used to keep the valves horizontal. For this, it is important that strap 3 is not fastened to the valve stem.

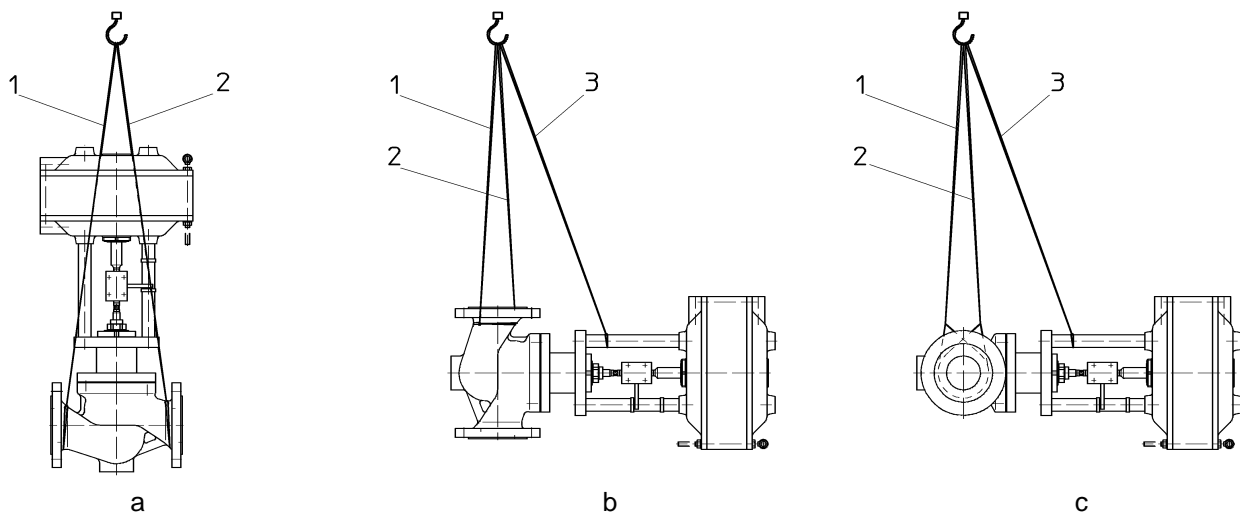


Figure 6: Hoisting of valves for installation in pipeline

**⚠ Hazard**

The eyes at the activator attachment should only be used for lifting the activator off the valves. They must not be used as hoisting eyes for the entire valves.