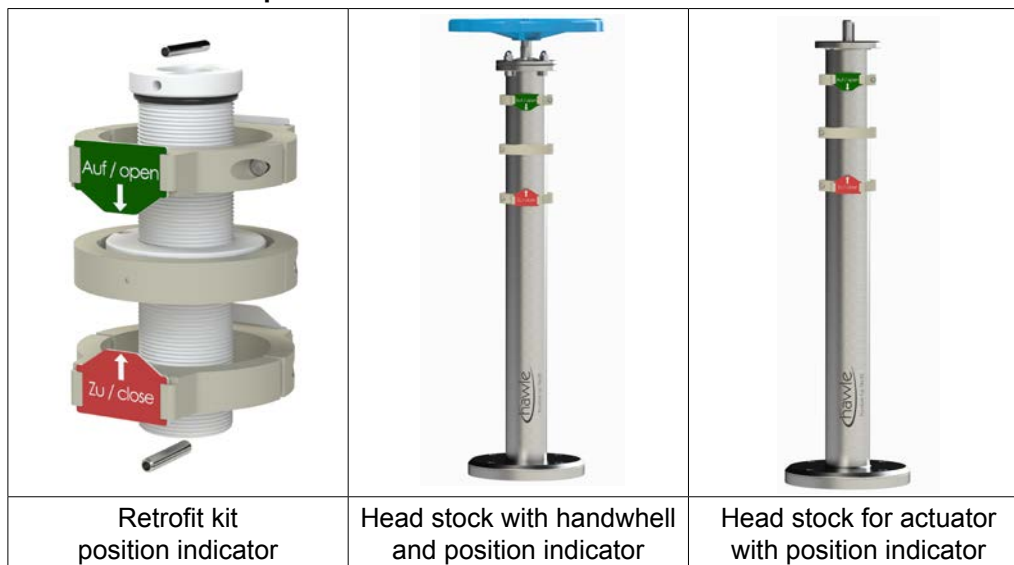


1. Intended Use / Product Description



Medium: Potable Water, Municipal Sewage, Gas

Material: see table with list of components, example of installation

Head stock with handwheel / Head stock with handwheel and position indicator:

Suitable for use with valves: E2/E3 gate valve DN 50-200, wastewater gate valve DN 80-200, PRO butterfly valve (buried / manually actuated plant installation) DN 150-600

Head stock for electric actuator / Head stock for electric actuator with position indicator:

Suitable for use with valves: E2/E3 gate valve DN 50-200, wastewater gate valve DN 80-200, **NOT** suitable for PRO butterfly valves.

All head stocks with 4 boreholes Ø16 mm, hole circle 194 mm at the foot flange for fixing the standpipe.

The head stock can be used for the above-ground actuation of valves in underground installations, in manholes or in valve chambers. It is connected to the valve by means of a telescopic extension spindle, Order No. 952-00:

The optionally available position indicator allows the respective degree of opening of the valve (open / closed) to be displayed. Visualization is effected via a slide ring, mounted on the standpipe, which is magnetically coupled to an internal mechanism, and is moved along the standpipe when the head stock is actuated. The color-coded labeling mounted on the standpipe indicates the degree of opening.

The pleasant working height (940 mm) ensures that the head stock can be operated ergonomically by means of a handwheel.

The max. operating temperature when using the position indicator is -30°C to 60°C. Exceeding the temperature specified may result in permanent damage to the magnets.

Before reading the position indicator, the user must ensure that the position indicator is functioning correctly. If severe environmental conditions (e.g. wintry weather) prevail, the function of the position indicator must be assured or restored by taking appropriate measures.

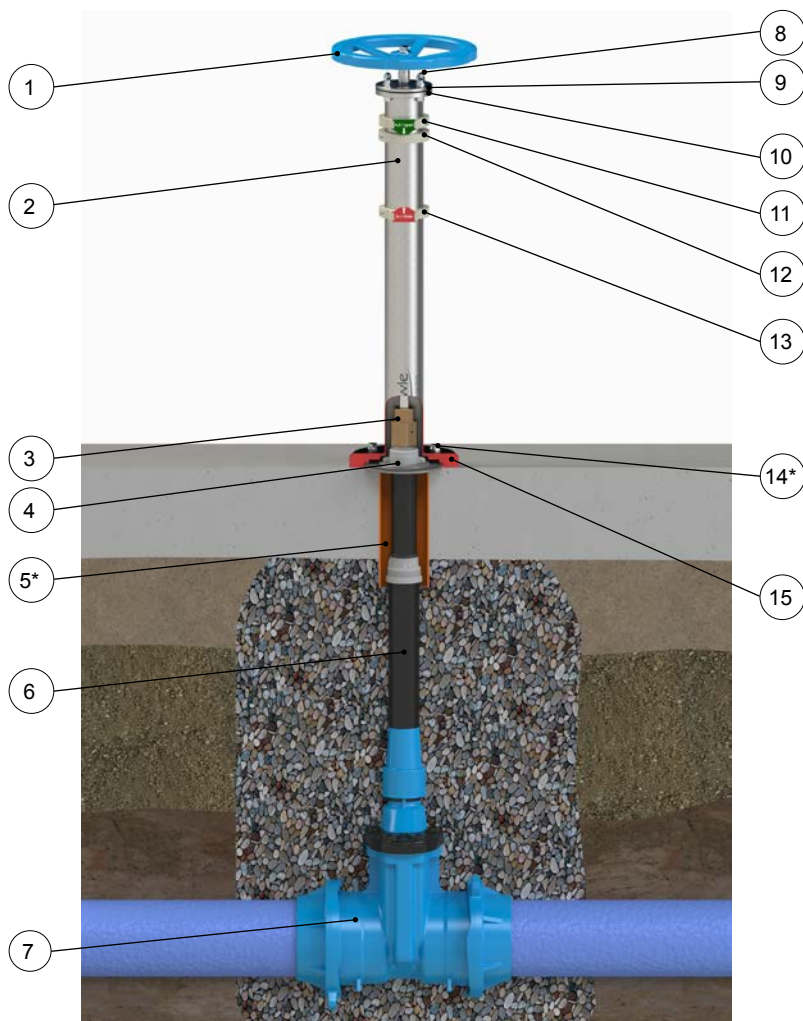
Warning: Cardiac pacemakers
Magnets can affect the function of pacemakers and implanted defibrillators. A magnetic impulse could cause the pacemaker to change mode. A defibrillator may potentially cease to function. If you are a user of such devices, make sure that you maintain a sufficient distance. If necessary, warn others who may be affected.

Caution: Magnetic fields
Magnets generate powerful magnetic fields that extend far and wide. They may, for instance, damage electronic devices such as TV sets, PCs, laptops, hard drives, credit and EC cards, data carriers, mechanical watches, hearing aids and loudspeakers. Magnetically conductive parts can be attracted to magnets. Keep magnets away from all devices and objects that can potentially become damaged by powerful magnetic fields. Do not place any ferrous tools, knives, etc. in the vicinity of magnets.

Important: Protect all magnets from contamination!

During installation and maintenance operations, the applicable standards and guidelines, accident prevention regulations and the regulations of professional associations are to be observed and complied with. Installation and maintenance operations may be performed by qualified personnel only.



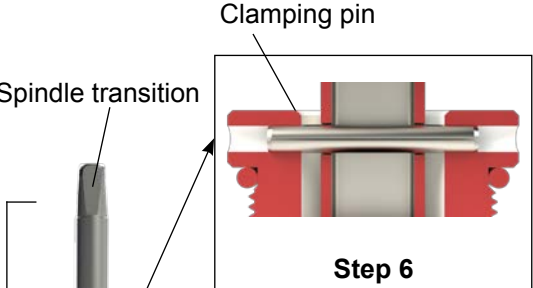
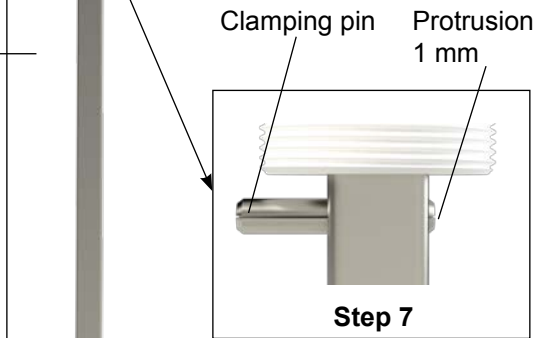
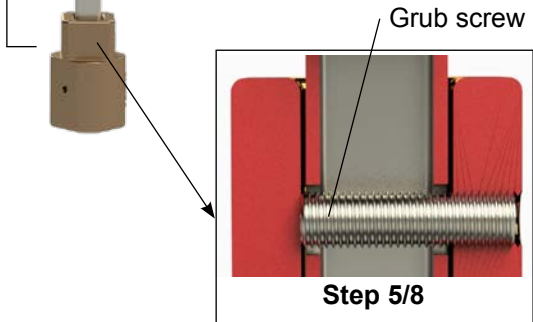
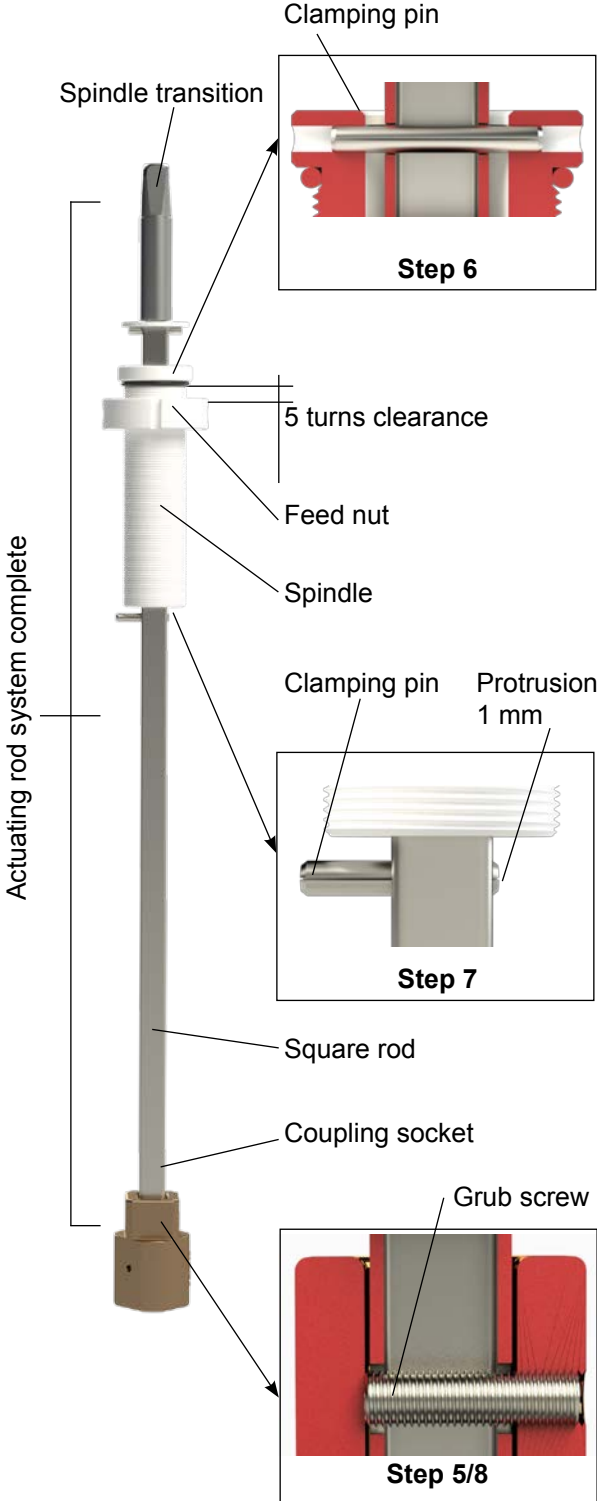
Example of installation:

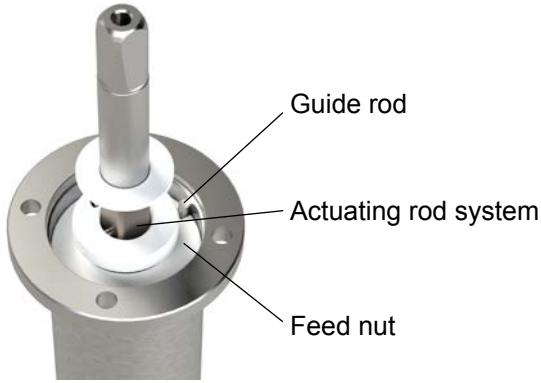


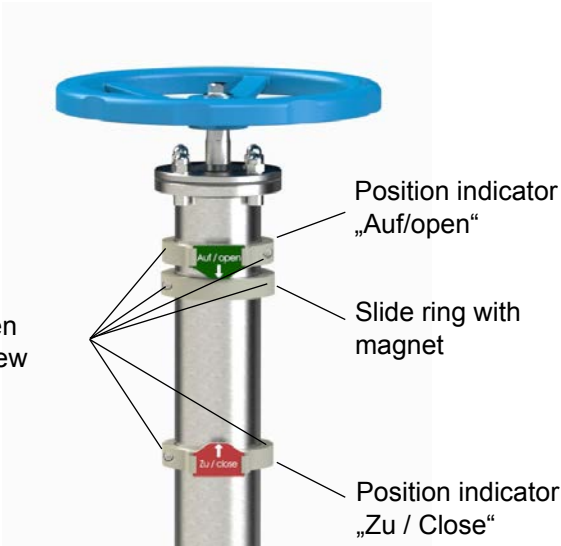



Pos.	Short description	Material
1	Handwheel Ø320mm	Cast iron, Hawle epoxy powder coating with UV protective varnish
2	Head stock	Stainless steel
3	Coupling socket	Red brass
4	Plastic insert	PP
5*	Protective tube	
6	Telescopic extension spindle Ord.No. 952-00	
7	Isolation valve	
8	4x screws, nut, washer	Stainless steel
9	Bearing flange	Stainless steel
10	Transition flange	Stainless steel
11	Position indicator „Auf / open“	Plastic
12	Slide ring with magnet	Plastic neodymium, coated
13	Position indicator „Zu / close“	Plastic
14*	4x fixing elements	
15	Locating ring	Stainless steel

* to be provided by the customer

2. Assembly

	Operating key, hammer, drift punch (clamping pins), Allen wrench size 4	
1	It is not necessary to remove the standpipe for retrofitting the position indicator. Only the handwheel (1) and the bearing flange (9) have to be dismantled! Head stock for actuator: There is no need to disassemble the handwheel (1) / bearing flange (9). The actuating rod can be removed from the standpipe by pulling it upwards.	
	CAUTION: The settings of the installed valve must be observed. When using actuators, which have not been supplied by Hawle, it is essential to consult the Application Engineering department!	
2	Move the valve to the open position.	
3	Disassemble the handwheel (1). Loosen 4x screws/nuts (8) and remove bearing flange (9).	
4	Remove the entire actuating rod system (consisting of the spindle transition, clamping pin, square rod, coupling socket and grub screw).	
5	Loosen the grub screw and pull off the coupling socket from the actuating rod system.	
6	Push the spindle with the fitted feed nut onto the square rod up to the level of the uppermost borehole. In the process, the transverse borehole of the spindle must be aligned with the borehole of the square rod. Secure the spindle on the square rod by hammering the clamping pin $\varnothing 5$ mm into the borehole until a symmetrical arrangement is achieved.	 This diagram shows a cross-section of the spindle transition assembly. A clamping pin is inserted through a borehole in the spindle transition, which is mounted on a square rod. The assembly is labeled 'Step 6'.
7	Drive the clamping pin $\varnothing 6$ mm into the borehole until it protrudes by 1 mm.	 This diagram shows a close-up of the clamping pin protruding from the square rod. The protrusion is labeled as 1 mm. The assembly is labeled 'Step 7'.
8	Push the coupling socket onto the square rod with the smaller of the two inner square edges first until the threaded hole is aligned with the through bore of the square rod. Secure the position of the coupling socket with a grub screw (tightening torque: 10-15 Nm).	 This diagram shows a grub screw being used to secure the coupling socket. The assembly is labeled 'Step 5/8'.
9	Turn the position indicator feed nut 5 turns from the upper stop of the spindle.	 This is the main assembly diagram showing the 'Actuating rod system complete'. It includes labels for: Spindle transition, 5 turns clearance, Feed nut, Spindle, Clamping pin, Protrusion 1 mm, Square rod, Coupling socket, and Grub screw.

<p>10</p>	<p>Mount the actuating rod in the standpipe; align the longitudinal groove of the feed nut with the guide rod of the standpipe, and push the actuating rod into the standpipe.</p> <p>The square edge of the spindle head of the extension spindle and the coupling socket must interlock.</p>	
<p>11</p>	<p>Mount the bearing flange (9) and the handwheel (1) in reverse order of operation (Step 3).</p>	
<p>12</p>	<p>Mount the slide ring (tightening torque 0.5-1 Nm), position indicator „Auf / Open“ and „Zu / Close“ on the standpipe. To adjust the position indicator (Step 13), it is necessary that the position pointers can be moved on the pipe.</p>	
<p>13</p>	<p>Adjusting the position indicator</p> <p>Move the slide ring upwards and magnetically couple it to the internal mechanism.</p> <p>Position the position indicator „Auf / Open“ and clamp it to the pipe using M5 Allen screws (tightening torque 1 -1.5 Nm).</p> <p>Move the valve to the closed position. The slide ring will move downwards along the head stock.</p> <p>Position the position indicator „Zu / Close“ and clamp it on the tube using an M5 Allen screw (tightening torque 1 -1.5 Nm).</p> <p>Additional information for head stock for actuator models</p> <p> CAUTION: The settings of the installed valve must be observed.</p>	
<p>14</p>	<p> CAUTION: When using actuators which have not been supplied by Hawle, it is essential to consult the Application Engineering department!</p>	

3. Commissioning and Pressure Test

After the position indicator has been successfully installed, a functional check must be performed. The correct setting of the position indicator must be verified by a trial run.

4. Maintenance and servicing

The position indicator is maintenance free.

If you have any other questions or if you need more information please contact:

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