General information

Extension spindles

Extension spindles, ESP for short, are used to operate shut-off valves in the field of buried pipeline construction. For Hawle gate valves up to DN 200, service valves, tapping valves and Hawle PRO butterfly valves®, the extension spindle is screwed using the round threaded cover clockwise on to the valve's round thread. This has the advantage of an optimum torque transmission between square socket and square of spindle and prevents inclination during compaction. An additional pinning of extension spindle square socket and shut-off valve spindles is not necessary (DN 50 - DN 200).

For larger nominal diameters (from DN 250 to DN 600), fixing of the extension spindle to the spindle is carried out with an NIRO splint.

Extension spindles must be installed vertically. They must not be crushed or kinked while the trench is being backfilled. With cohesive soils in particular, attention must be paid to the correct sand backfilling of valve and extension spindle to achieve frost protection. DIN 3223 operating keys are suitable for operation.

Hawle extension spindles are produced in rigid or telescopic versions. Rigid extension spindles can be shortened on site. Telescopic extension spindles allow an infinitely variable adaptation to the existing pipe cover depth, but cannot be shortened on site. Extensions of extension spindles for gate valves and service valves can be supplied in both an extension from below (connection directly to valve) and from above (connection to telescopic ESP).

Hawle extension spindles made of stainless steel (952-00) are fitted with a universal coupling box system. Just a few installation sets can be used to cover a wide range of products.

The base plate and surface box are centrically installed around the operating square of the extension spindle. Here the necessary street level and adequate distance between the upper edge of the operating square and the lower edge of the surface box cover must be taken into consideration. To prevent the square key side of the telescopic extension spindle from subsiding, we recommend using the extension spindle in combination with the Hawle universal base plate for surface boxes for gate valves and valves. The two bearing wings of the telescopic extension spindle are fitted into the recesses of the base plate.

Telescopic ESP
950-00

Telescopic ESP
made of stainless
Steel 952-00

Extension spindle
extensions
950-01, 952-01,
962-02, 962-03

Rigid ESP
900-00

Telescopic ESP
„Typ H“ 960-01

Handwheels

Handwheels are used to operate shut-off valves in shafts and systems. Hawle handwheels are available in DN 25 - DN 40 made of plastic and in DN 50 - DN 600 made of cast iron with Hawle epoxy powder coating.

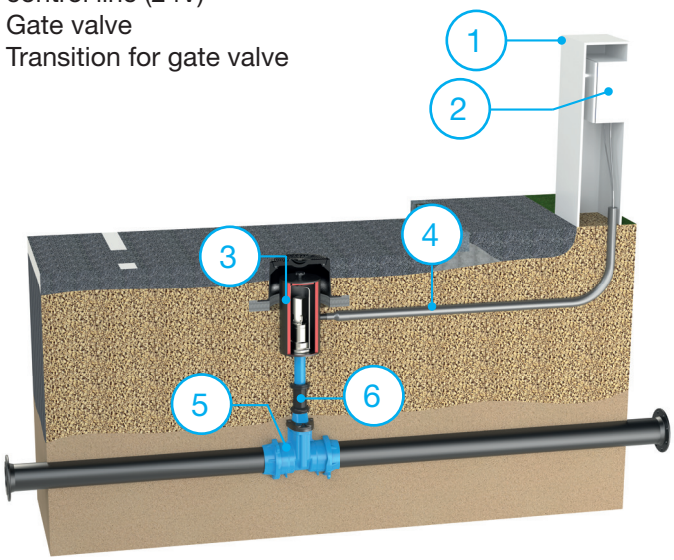
Drive fitting

The drive fitting 864-00 consists of a watertight PE chamber in which the rotary actuator sits. This is designed for underground installation and firmly connected to the desired valve. An associated control unit is housed externally, preferably in a meter connection column or in a nearby building.

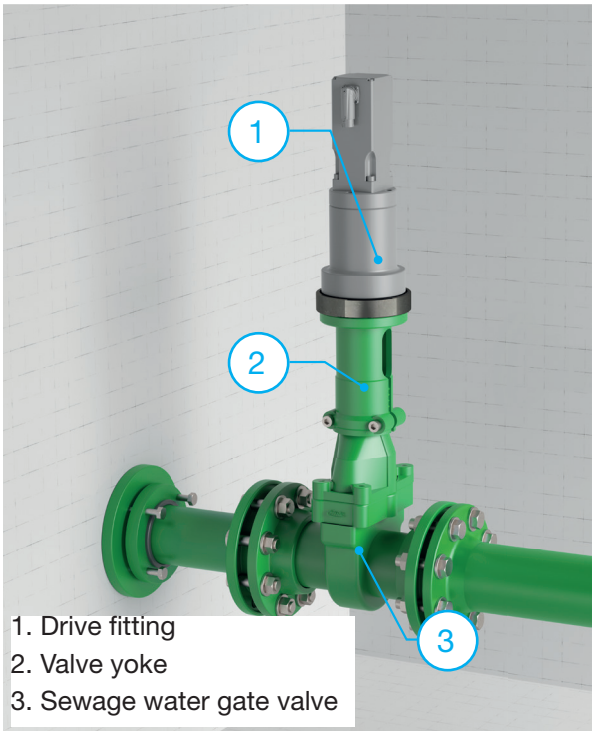
The fitting replaces expensive manholes and avoids high running costs as well as dangers arising when entering. The drive fitting can be fitted to any Hawle gate valve and any Hawle PRO butterfly valve®. For repair- and maintenance jobs the actuator can be removed with just a few movements of the hand by unlocking it from the PE chamber. Smaller maintenance jobs can be carried out directly from the road surface.

Underground installation example

1. Meter connection column
2. Control unit
3. PE chamber with actuator
4. Power supply/ control line (24V)
5. Gate valve
6. Transition for gate valve



Plant construction installation example



1. Drive fitting
2. Valve yoke
3. Sewage water gate valve

Head stock

The Hawle head stock 786-00 can be used for the above-ground operation of valves and fittings in an underground installation, in manholes or in valve chambers. The connection to the valve is produced using the telescopic extension spindle (952-00).

The optionally available position indicator gives the ability to have displayed the respective degree of opening of the valve (open / closed). Visualization is via a sliding ring, installed on the standpipe, which is magnetically coupled to an internal mechanism and is moved by the operation of the head stock along the standpipe.

The color-highlighted signage fitted to the standpipe shows the degree of opening. Ergonomic operation of the head stock is guaranteed via the comfortable working height. Also available as a head stock for actuator.

No.	Brief description
1	Handwheel Ø 320mm
2	Head stock with position indicator
3	Square socket
4	Plastic insert
5	Protection pipe *
6	Telescopic extension spindle of stainless steel (952-00)
7	Shut-off valve

* to be provided on site