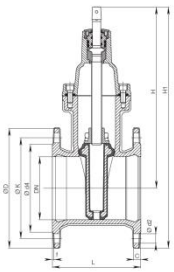
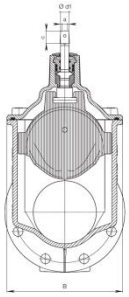
Installation manual Hawle E1/E1+ Gate Valve

1. Intended use







Sample picture

Medium: potable water

Max. operating pressure: 16 bar

Material: *Body and bonnet: ductile iron , epoxy-powder coated | Wedge: ductile iron, elastomer | Wege nut and O-ring bush: brass | Wedge guide: POM | Spindle: Stainless steel | O-ring and Sealings: Elastomer | Screws: Steel | Friction washer and spindle bearing: POM | Wax: PUR*

Hawle valves are used in potable water distribution networks at a maximum operating pressure of 16 bar (please observe the relevant pressure ratings mentioned on our specific catalogue).

For the installation and maintenance the applicable norms and standards, accident prevention regulations and regulations of professional organizations shall be complied with and observed.

The valves shall be installed and maintained by skilled and trained personnel only.

2. Product description:

The two wedge settings for valves are either ”open” or ”closed”. The valves are not intended to control flow rates. Actuation of the valve is by means of an extension spindle in underground buried situations or by a handwheel when suitable. Use only handwheels or operating equipment recommended by Hawle. Modifications and additional extensions to operating equipment is not permitted.

3. Installation

	Open-ended wrench / ring wrench, torque wrench

1. Care must be taken to ensure that the fittings are transported and load-secured in an orderly manner. When using lifting equipment during loading, unloading and moving, attach it only to flange or lifting ring. Valve spindles DN 50 and larger, are equipped with an inner thread for the reception of the lifting ring during transport. Using the handwheel for lifting is not permitted.
2. Check the valve for damage before assembly. Any damage to the coating must be dealt with professionally, using Hawle repairs material no. 3442.
3. The pipelines must be thoroughly cleaned of all dirt and grime before assembling the pipeline fittings. The assembly of the pipeline fitting may only be carried out by specialists following local regulations and Hawle installation procedures.
4. When installing in the pipeline system care must be taken that the pipeline connection flanges that come into contact with each other are flush and parallel in order to avoid any tensions and stress to the valve body. Ensure an even pressure in between the flange seals, by crosswise tightening of the connecting screws. When using galvanized steel screws St 4.8 (not lubricated) the following bolting torques must be observed:

Screw dimensions	Max. tensioning torque per screw (Nm)
M 12	35
M 16	90
M 20	140
M 24	200
M 27	250
M 30	300

For all other screw materials, use the moments of torque in line with the best accepted engineering standards.

5. In the event that the valve is installed above ground, a covering or a coating with UV resistant paint is required to assure protection from UV light (e.g. Hawle order no. 3441).
6. The valve may only be operated using extension spindles or handwheels from our product range. The operating and closure torques are in compliance with the Standard EN 1074-2 section 5.2.3b.

4. Servicing and maintenance

Hawle valves are designed for low maintenance operation. The valves should be activated at reasonable intervals, at least once every years.

5. Commissioning and pressure testing

Upon completion of assembly, a pressure test according to EN 805 at the given operating pressure rating must be carried out in the open trench. Open the valve, fill the pipeline with water (ventilate the pipeline) and carry out the pressure test prior to filling the trench (see Catalogue page 6)

Sooner or later, even the best product will reach the end of its useful life and should be recycled as sustainably as possible. Please observe our disposal recommendations.

If you have any other questions or if you need more information, please contact your local Hawle contact person