# E3 Gate valve | Combi valves

## Overview

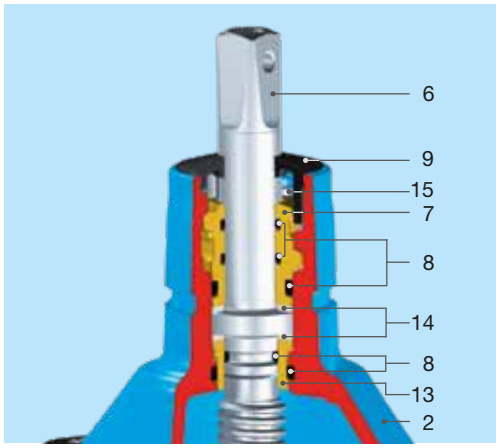
### Design features

- Resilient seated gate valve according to EN 1171, EN 1074-1 and EN 1074-2 with smooth, straight-through bore
- Double bayonet O-ring carrier is connecting the spindle to the bonnet, allowing a fully encased, uniform epoxy powder coated bonnet for further improved corrosion protection
- Wedge guide made of wear resistant POM material in load optimized design minimizes attrition and ensures lowest torque actuation
- Wedge is flexible and fully linked in vulcanized elastomer to the wedge nut. This snug fit dampens vibration during opening and closing of the wedge
- Wedge nut has a long thread length allowing significantly higher torques than the standard before breaking
- O-rings, lip-seals mounted in the bonnet are replaceable under operating pressure
- Extended edge protection to avoid damages during transport, storage and assembly
- Sliding disks and ball bearing assure low friction performance of the spindle
- 100% suitable for buried installations

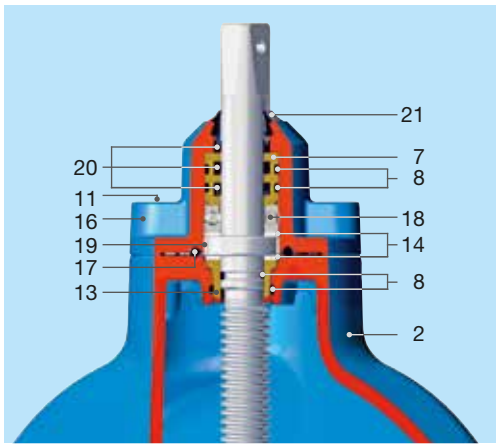
### Material | Technical features

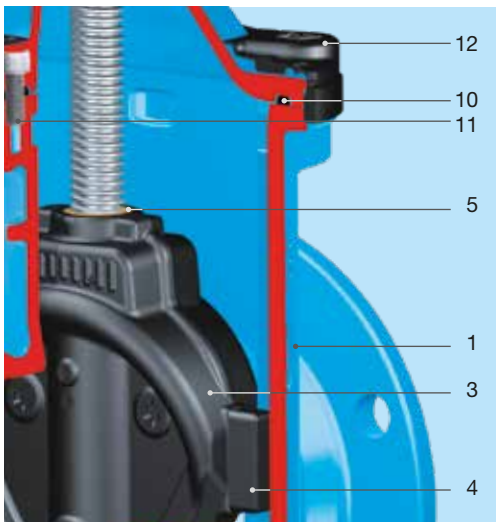
1,2 Body (1), bonnet (2), centering flange (16) made of ductile iron,
16 epoxy powder coated inside and out
3 Wedge made of ductile iron (DN 50 made of dezincification-resistant brass) with vulcanized elastomer all-over
4 Wedge guide made of wear-resistant plastic
5 Wedge nut made of dezincification-resistant brass
6 Duplex stainless steel spindle with rolled thread and flat-rolled anti-friction surface
7 O-ring carrier made of brass, DN 50 — 200 with double bayonet
8 O-rings made of elastomer
9 Wiper ring made of PE
10 Bonnet gasket made of elastomer
11 Allen screws made of stainless steel, encased into the body with interlacing gasket and sealing compounds, ensuring full corrosion protection
12 Extended edge protection made of PE
13 Spindle bearing made of dezincification resistant brass
14 Sliding disks made of POM
15 Safety screw made of stainless steel
17 Centering flange gasket made of elastomer
18 Axial ball bearing permanently lubricated
19 Centering ring made of POM
20 Lip seals made of elastomer
21 Wiper ring made of elastomer

**DN 50 — 200**
Spindle bearing with sliding disks




**DN 250 — 400** Spindle bearing with ball bearing and additional sliding disks




**DN 500 — 600 in preparation - currently available - see page A 11/3**

# E3 Valve spigot ends
## With flange, PN 10 | PN 16

### Design features

- Resilient seated gate valve with smooth straight-through bore
- Flanges sized in accordance with EN 1092-2, drilled according to EN 1092-2 | PN 10 standard; EN 1092-2 | PN 16 DN 200 please specify on order - other standards on request
- The Hawle E3 spigot ends valve with the high-tensile loose flange system is especially suitable for use with new builds in addition to being a replacement for existing valves
- The flat gaskets are already contained in the conical seals
- Suitable for cleaning with a cleaning pig
- One extension spindle for several dimensions
- Suitable for operation by automatic actuators
- Easy retrofitting of position indicator and automatic actuators on the standard bonnet

**Standard version:** without handwheel and extension spindle

### Suitable accessories

**Suitable accessories:** see page A 2/2

| | | |
|---|---|---|
| Handwheel: | | No. 7800 |
| Extension spindles: | rigid | No. 9000E2/E3 |
| | telescopic | No. 9500E2/E3 |
| Surface boxes: | rigid | No. 1750 |
| | telescopic | No. 2050 |
| | | No. 2051K |
| Valve actuator: | | No. 9920 |
| Adapter for actuator (E2/E3 adapter): | | No. 8630E2/E3 |
| Base plate: | No. 3481, No. 3482 | |
| Operating cap: | No. 2156, No. 2157 | |
| Extension spindle: | No. 7820, No. 7825 | |
| Position indicator: | No. 2170E2/E3 | |
| Bolts: | No. 8810, No. 8830, No. 8840 | |
| HAWAK-pillar: | No. 9894, No. 9895 | |

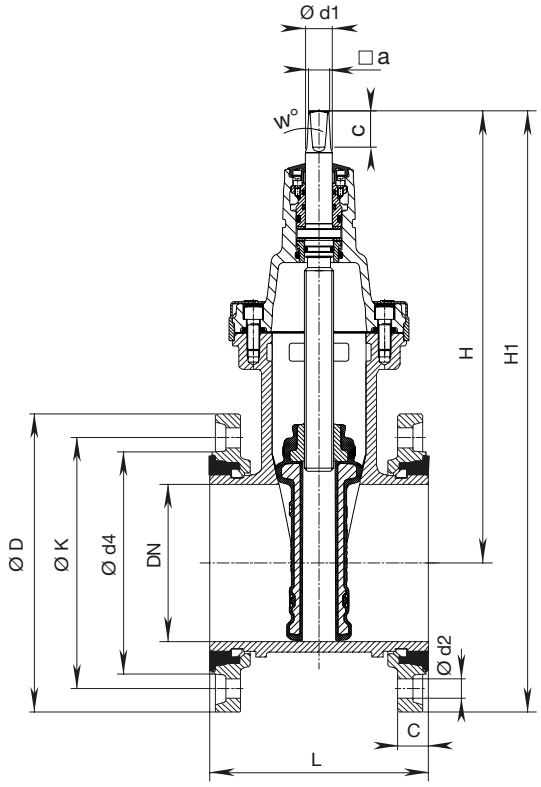
### No. 4120E3

| Order no. | Version | MOP (PN) | Dimensions/DN | | |
|---|---|---|---|---|---|
| | | | 100 | 150 | 200 |
| **4120E3** | **short** EN 558 GR 14 | 16 | | | |

Face-to-face length EN 558 GR 15 on request

# E3 Valve spigot ends
## With flange, PN 10 | PN 16

### No. 4120E3




| DN | MOP (PN) | Flange | | | | Bolts | | | Spindle | | | | Valve | | | | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Ø D | C | Ø K | Ø d4 | Qty. | Thread | Ø d2 | □ a | c | w° | Ø d1 | H | H1 | L | B max. width | |
| **100** | 10 | 220 | 19 | 180 | 153 | 8 | M 16 | 19 | 19,3 | 37,2 | | 24 | 343 | 453 | 190 | 213 | 23,5 |
| | 16 | | | | | | | | | | | | | | | | |
| **150** | 10 | 285 | 19 | 240 | 209 | 8 | M 20 | 23 | 19,3 | 34,9 | 3° | 26 | 433 | 576 | 210 | 285 | 40,0 |
| | 16 | | | | | | | | | | | | | | | | |
| **200** | 10 | 340 | 20 | 295 | 264 | 8 | M 20 | 23 | 24,3 | 47,3 | | 30 | 541 | 711 | 230 | 357 | 61,0 |
| | 16 | | | | | 12 | | | | | | | | | | | 64,0 |