

E3 valve for seawater + raw water

with flange DN 50 — 400, PN 10 | PN 16

Design features

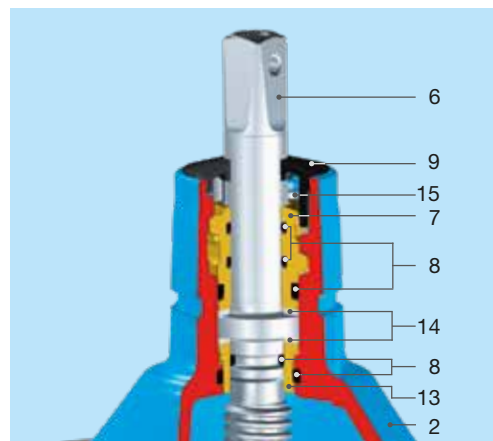
- Resilient seated gate valve according to EN 1171, EN 1074-1 and EN 1074-2 with smooth, straight-through bore
- Double bayonet O-ring carrier is connecting the spindle to the bonnet, allowing a fully encased, uniform epoxy powder coated bonnet for further improved corrosion protection
- Wedge guide 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, suitable for seawater. 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

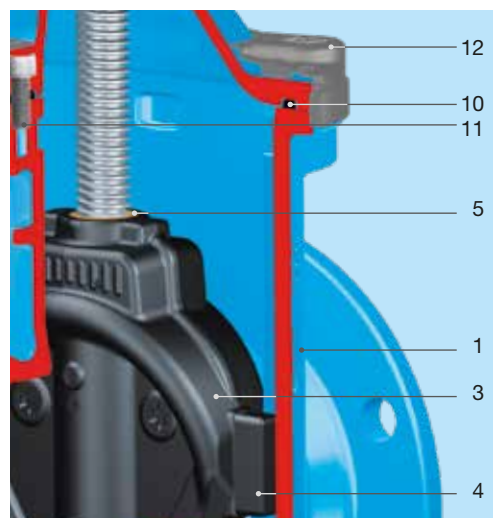
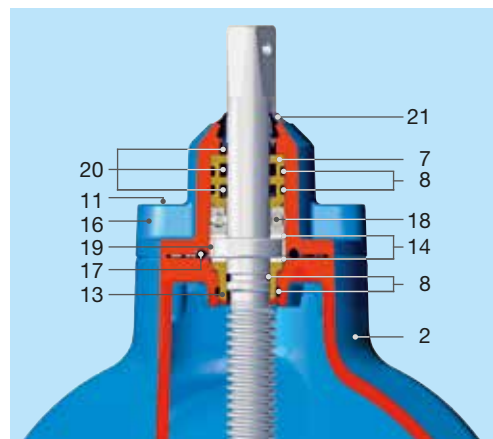
- 1, 2, Body (1), bonnet (2) centering flange (16) made of ductile iron,
- 16 epoxy powder coated inside and outside
- 3 Wedge made of ductile iron (DN 50 made of dezincification-resistant brass) with vulcanized NBR all-over
- 4 Wedge guide made of wear-resistant plastic
- 5 Wedge nut made of dezincification-resistant brass
- 6 Steel spindle 1.4462 (SS 316), with rolled thread and flat-rolled anti-friction surface
- 7 O-ring carrier made of brass, DN 50 — DN 200 with double bayonet
- 8 O-rings made of NBR
- 9 Wiper ring made of PE
- 10 Bonnet gasket made of NBR, suitable for seawater
- 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



E3 valve for seawater + raw water

With flange DN 50 – 200, 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 from DN 200
Please specify on order - other standards on request
- 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
- Stainless steel spindle St 1.4462 (SS 316)

Standard version: without handwheel and extension spindle
Design versions: for actuator: No. 4000ELE3
 with position indicator: No. 4000STE3
Special versions: on request

Suitable accessories

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, No. 2158
 Extension spindle: No. 7820, No. 7825
 Position indicator: No. 2170E2/E3
 Bolts: No. 8810, No. 8830, No. 8840
 HAWAK-pillar: No. 9894, No. 9895
 Flat gasket: No. 3390, No. 3470

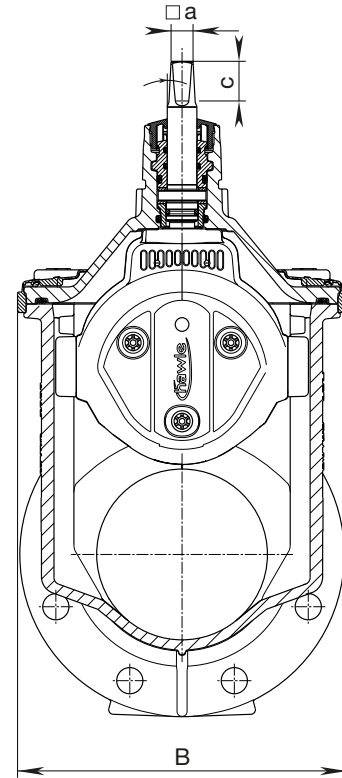
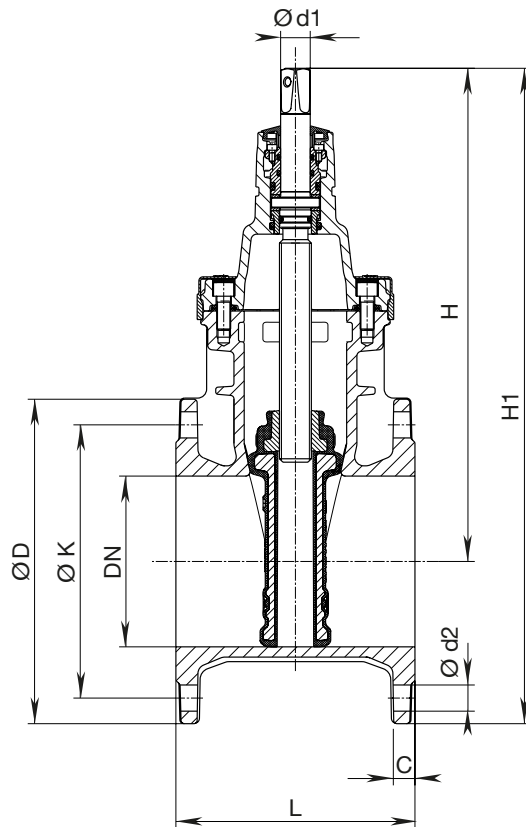
No. 4002E3

No. 4702E3



Order no.	Version	MOP (PN)	Dimensions/DN						
			50	65	80	100	125	150	200
4002E3	short EN 558-1 GR 14	16							
4702E3	long EN 558-1 GR 15	16							

*in preparation



DN	MOP (PN)	Flange			Bolts			Spindle				Valve					Weight	
		Ø D	C	Ø K	Qty.	Thread	Ø d2	□ a	c	w°	Ø d1	H	H1	L short	L long	B	short	long
50	10 16	165	19	125	4	M 16	19	14,8	30	3°	20,5	234	316,5	150	250	143	10,0	10,0
65	10 16	185	19	145	4	M 16	19	17,3	35		24	305	397,5	170	270	180	15,5	15,5
80	10 16	200	19	160	8	M 16	19	17,3	35		24	312,5	412,5	180	280	180	16,5	20,0
100	10 16	220	19	180	8	M 16	19	19,3	38		24	343	453	190	300	212	20,5	25,5
125	10 16	250	19	210	8	M 16	19	19,3	38		26	421	546	200	325	289	33,0	33,0
150	10 16	285	19	240	8	M 20	23	19,3	38		26	433	576	210	350	289	37,5	37,5
200	10 16	340	20	295	8 12	M 20	23	24,3	48		30	541	711	230	400	356	61,0	71,5

*in preparation

E3 valve for seawater + raw water

With flange DN 250 — 400, 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 from DN 200;
Please specify on order - other standards on request
- Suitable for cleaning with a cleaning pig
- Suitable for operation by automatic actuators
- O-rings lip-seals replaceable under operating pressure up to DN 400
- Ball bearings in the spindle seating minimizes closing forces
- Easy to actuate without bypass and without power boost - even for 16 bar differential pressure
- For mounting a position indicator it is necessary to remove the centering flange and attach the adapter for position indicator
- Stainless steel spindle St 1.4462 (SS 316)

No. 4002E3

No. 4702E3



Standard version: without handwheel and extension spindle

Design versions: for actuator: No. 4000ELE3
with position indicator: No. 4000STE3

Special versions: on request
- Bevel gearing

Suitable accessories

Suitable accessories: see page 48

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 (E3 adapter): No. 8630E3

Base plate: No. 3481, No. 3482

Operating cap: No. 2156, No. 2157, No. 2158

Extension spindle: No. 7820, No. 7825

Bolts: No. 8810, No. 8830, No. 8840

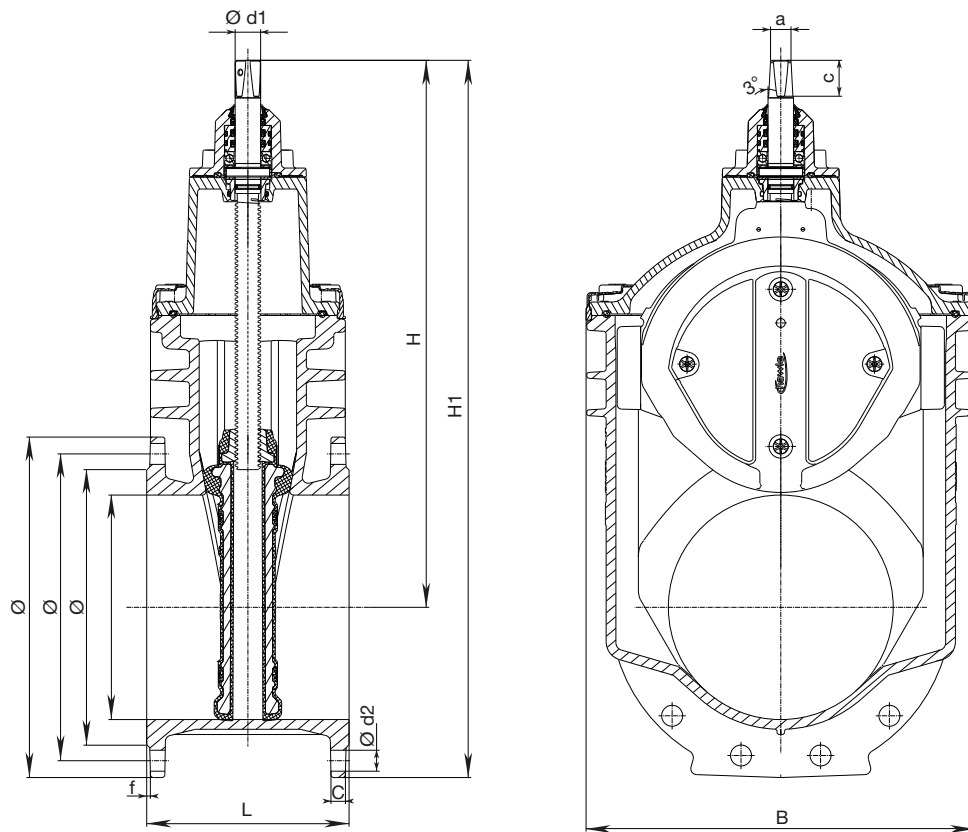
HAWAK-pillar: No. 9894, No. 9895

Flat gasket: No. 3390, No. 3470



Order no.	Version	MOP (PN)	Dimensions/DN			
			250	300	350	400
4002E3	short	16			*	*
	EN 558-1 GR 14					
4702E3	long	16				*
	EN 558-1 GR 15					

*in preparation



DN	MOP (PN)	Flange					Bolts			Spindle			Valve					Weight	
		ØD	C	ØK	Ød4	f	Qty.	Thread	Ød2	a	c	Ød1	H	H1	L	L	B	short	long
250	10	400	22	350	319	3	12	M 20	23	27,3	48	34	670	870	250	450	432	100,0	121,0
	16			355				M 24	28										
300	10	455	24,5	400	367	4	12	M 20	23	27,3	48	34	753	981	270	500	518	147,0	169,5
	16			410				M 24	28									169,0	
350*	10	520	26,5	460	427	4	16	M 20	23	27,3	48	34	816	1076	290		604	206,5	
	16			470				M 24	28										
400*	10	580	28	515	477	4	16	M 24	28	32,3	55	44	925	1215	310	600	687	266,0	310,0
	16			525				M 27	31										

*in preparation