E3 Gate valve | Combi valves

Overview

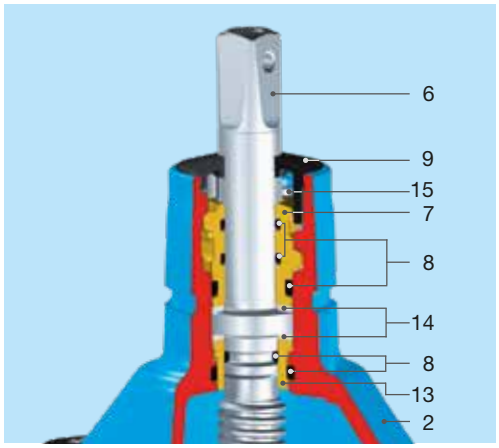
Design features

- 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

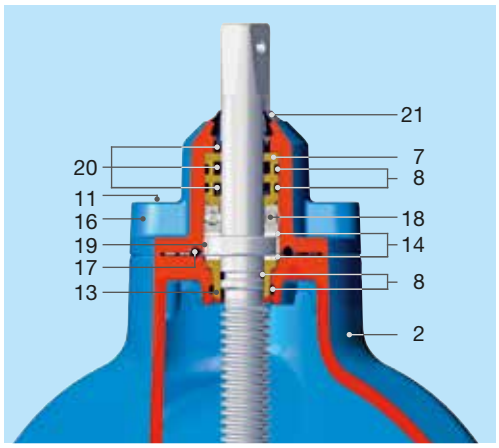
Material | Technical features

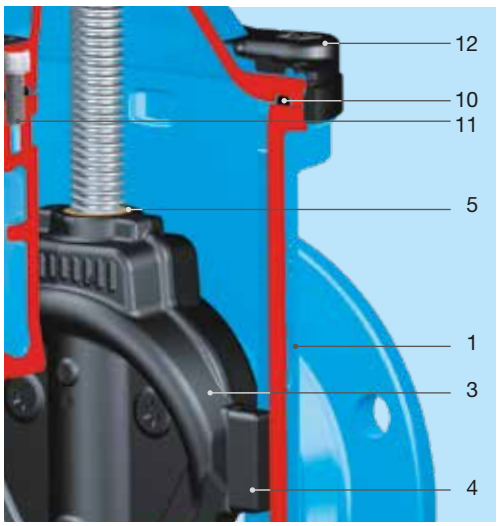
1,2 Body (1), bonnet (2), centering flange (16) made of ductile iron,
16 epoxy powder coated inside and out
3 Wedge made of ductile iron (DN 50 made of dezincification-resistant brass) with vulcanized elastomer all-over
4 Wedge guide made of wear-resistant plastic
5 Wedge nut made of dezincification-resistant 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 Gate valve

With flange DN 50 — 200, PN 10 | PN 16 | PN 25

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 (4000E3, 4700E3);
  EN 1092-2 | PN 16 from DN 200 (4000E3, 4700E3)
  EN 1092-2 | PN 25 (4010E3, 4710E3)
  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
- Duplex stainless steel spindle

Standard version: without handwheel and extension spindle

Design versions:

for actuator:	No. 4000ELE3
with actuator:	No. 4000EME3
with position indicator:	No. 4000STE3
for seawater:	No. 4002E3, No. 4702E3

Special versions: on request

No. 4000E3
No. 4700E3
No. 4010E3
No. 4710E3*
No. 4060E3*

DVGW GEPRÜFT

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	
Flat gasket:	No. 3390, No. 3470	

Order no.	Version	MOP (PN)	Dimensions/DN						
			50	65	80	100	125	150	200
4000E3	**short** EN 558 GR 14	16							
4700E3	**long** EN 558 GR 15	16							
4010E3	**short** EN 558 GR 14	25							
4710E3*	**long** EN 558 GR 15	25							
4060E3*	**to BS 5163 to AS 2638**	16			*	*		*	*

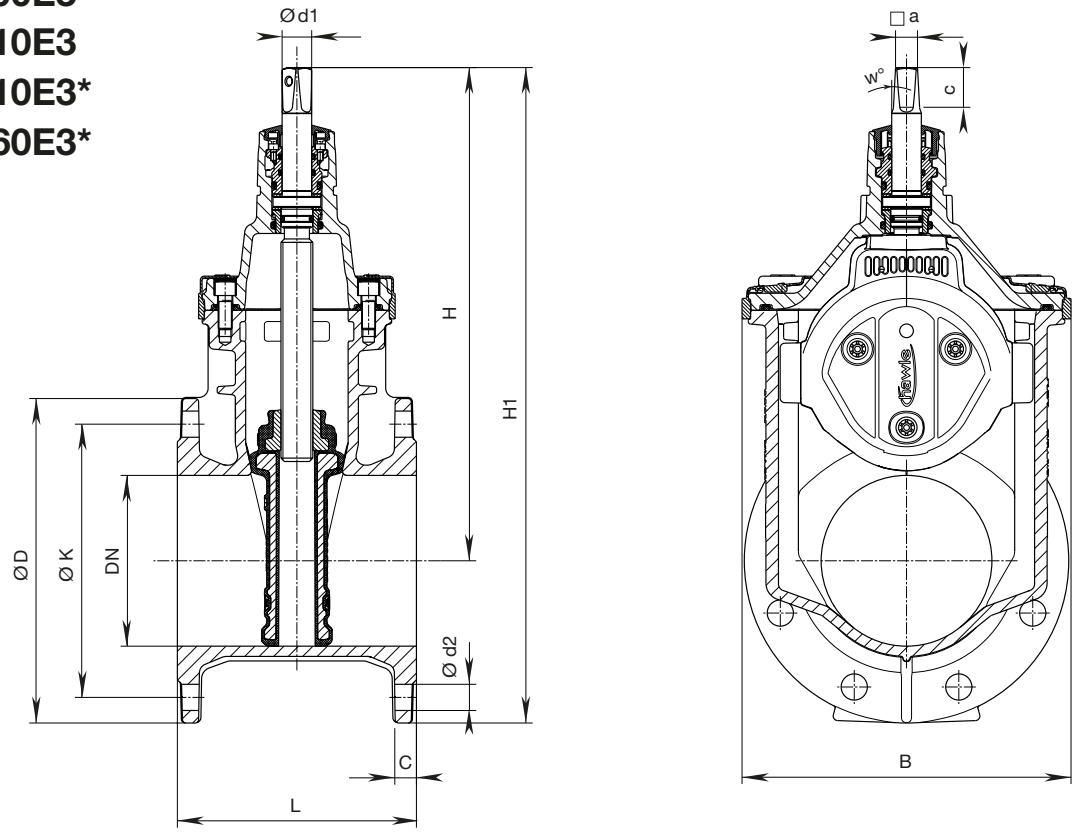
*in preparation

Application examples

E3 Gate valve

With flange DN 50 — 200, PN 10 | PN 16 | PN 25

No. 4000E3
No. 4700E3
No. 4010E3
No. 4710E3*
No. 4060E3*



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	BS 5163 AS 2638	B	short	long	BS 5163 AS 2638
50	10	165	19	125	4	M 16	19	14,8	33	3°	20,5	234	316,5	150	250		143	10,0	11,5	10,5
	16																			
	25																	10,0		
65	10	185	19	145	4	M 16	19	17,3	35		24	305	397,5	170	270		180	15,5	17,5	
	16																			
	25*				8													16,0		
80	10	200	19	160	8	M 16	19	17,3	38		24	312,5	412,5	180	280		180	16,5	20,0	
	16															203				18,0
	25*																	18,0		
100	10	220	19	180	8	M 16	19	19,3	39		24	343	453	190	300		212	20,5	25,5	
	16															229				23,5
	25*	235		190		M 20	23						460					24,5		
125	10	250	19	210	8	M 16	19	19,3	39		26	421	546	200	325		289	33,0	37,5	
	16																			
	25*	270		220		M 24	28						556					34,0		
150	10	285	19	240	8	M 20	23	19,3	39		26	433	576	210	350		289	37,0	43,5	
	16															267				41,0
	25*	300		250		M 24	28						583					47,0	49,0	
200	10	340	20	295	8	M 20	23	24,3	49		30	541	711	230	400		356	60,5	71,5	
	16				12											292				65,0
	25*	360		310	12	M 24	28						721					67,0	79,0	

*in preparation

E3 Gate valve

With flange DN 250 — 400, PN 10 | PN 16 | PN 25

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 (4000E3, 4700E3);
  EN 1092-2 | PN 16 from DN 200 (4000E3, 4700E3);
  EN 1092-2 | PN 25 (4710E3)
  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

No. 4000E3
No. 4700E3
No. 4710E3
No. 4060E3*

Standard version:	without handwheel and extension spindle	
Design versions:	for actuator:	No. 4000ELE3
	with actuator:	No. 4000EME3
	with position indicator:	No. 4000STE3
	for seawater:	No. 4002E3, No. 4702E3
Special versions:	on request - Bevel gearing	

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 (E3 adapter):		No. 8630E3
Base plate:	No. 3481, No. 3482	
Operating cap:	No. 2156, No. 2157	
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	

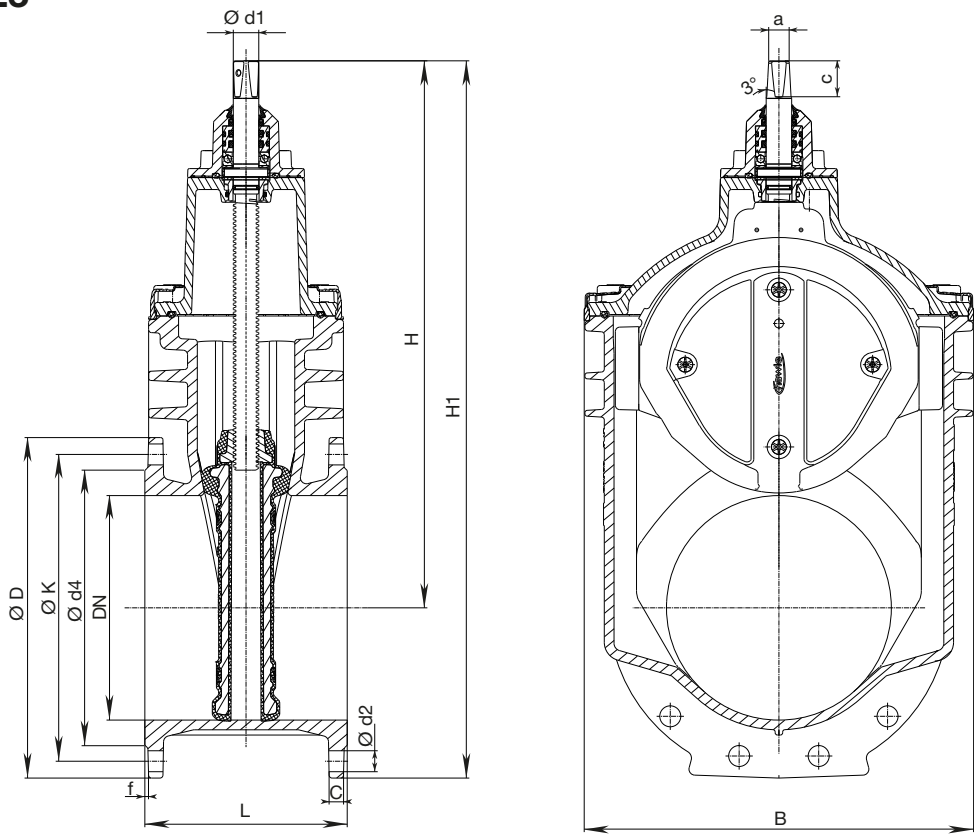
Order no.	Version	MOP (PN)	Dimensions/DN					
			250	300	350	400	500*	600*
4000*E3*	**short** EN 558 GR 14	16	■	■	■	■	*	*
4700*E3*	**long** EN 558 GR 15	16	■	■		■	*	*
4710*E3*	**long** EN 558 GR 15	25	■	■				
4060*E3*	**to BS 5163 to AS 2638**	16	■	■				

*in preparation - currently available in E2 version, see page A 11/3

E3 Gate valve

With flange DN 250 — 400, PN 10 | PN 16 | PN 25

No. 4000E3
No. 4700E3
No. 4710E3
No. 4060E3*



DN	MOP (PN)	Flange					Bolts			Spindle			Valve						Weight		
		Ø D	C	Ø K	Ø d4	f	Qty.	Thread	Ø d2	a	c	Ø d1	H	H1	L short	L long	BS 5163 AS 2638	B	short	long	BS 5163 AS 2638
250	10	400	22	350	319	3	12	M 20	23	27,3	48	34	649	849	250	450	330	436	98,5	114,5	109,0
	16			355				M 24	28										102,0	110,0	
	25	425	24,5	370	330			M 27	31					862						136,0	
300	10	455	24,5	400	367	4	12	M 20	23	27,3	48	34	731	958	270	500	356	520	151,0	169,5	167,0
	16			410				M 24	28										150,0	169,0	
	25	485	27,5	430	389	5	16	M 27	31					973						196,0	
350	10	520	26,5	460	427	4	16	M 20	23	27,3	48	34	816	1076	290			604	205,5		
	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												
500*	10*																				
	16*																				
600*	10*																				
	16*																				

*in preparation - currently available in E2 version, see page A 11/3