E3 Gate valve | Combi valves hawle



Overview

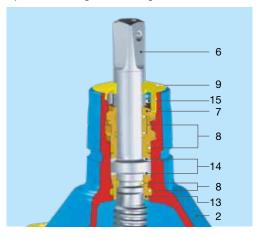
Design features

- 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
- 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

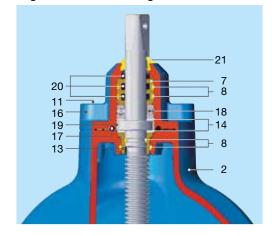
Material | Technical features

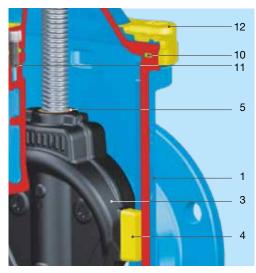
- 1,2 Body (1), bonnet (2), centering flange (16) made of ductile iron,
- epoxy powder coated inside and out
- Wedge made of ductile iron (DN 50 made of dezincificationresistant brass) with vulcanized elastomer all-over
- 4 Wedge guide made of wear-resistant plastic
- 5 Wedge nut made of dezincification-resistant 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
- Allen screws made of stainless steel, encased into the body with interlacing gasket and sealing compounds, ensuring full corrosion protection
- Extended edge protection made of PE
- Spindle bearing made of dezincification resistant brass
- 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
- Lip seals made of elastomer
- Wiper ring made of elastomer

DN 50 - 200Spindle bearing with sliding disks



DN 250 - 400 Spindle bearing with ball bearing and additional sliding disks





E3 Valve

With flange DN 50 - 200, PN 10 | PN 16

Design features

- · Resilient seated gate valve with smooth straightthrough bore in compliance with EN 13774 (EN 1074-1 and 2)
- Flanges sized in accordance with EN 1092-2, drilled according to

EN 1092-2 | PN 10 standard (4005*E3*, 4705*E3*); EN 1092-2 | PN 16 from DN 200 (4005*E3*, 4705*E3*) Please specify on order - other standards on request

- Wedge guide with high glide characteristics; load-optimised design guarantees lowest wear and minimum closing torques
- Wedge nut allows high torque load through large dimensioning of the required thread length
- **O-rings, lip seals** mounted in rust-proof material on all sides
- Edge protection protects during transport and storage
- Friction washers (DN 50 to DN 200) guarantee low friction mounting of the spindle
- One extension spindle for several dimensions
- 100% suitable for underground installation

Standard version: without handwheel and

extension spindle

Design versions: with position indicator:

No. 4005STE3

Temperature range: operation: -10 °C to 50 °C

storage: -25 °C to 70 °C



		МОР	Dimensions/DN									
Order no.	Version	(PN)	20	65	8	100	125	150	200			
4005 <i>E</i> 3	short EN 558-1 GR 14	16										
4705 <i>E</i> 3	long EN 558-1 GR 15	16										

Suitable accessories:

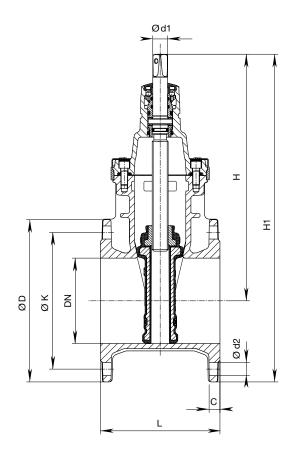
No. 4005E3

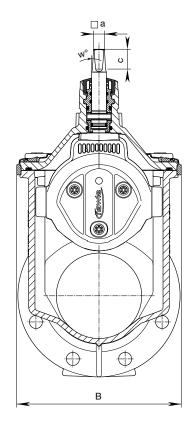
Handwheel: No. 7800 Extension spindles: No. 9000*E2/E3* rigid No. 9500*E2/E3* telescopic No. 1755

Surface boxes: rigid

Base plate: No. 3481, No. 3490







	МОР	F	Flange	Э		Bolts			Spii	ndle				Wei	Weight			
DN	(PN)	ØD	С	ØK	Qty.	Thread	Ød2	□а	С	w°	Ød1	Н	H1	L short	L long	В	short	long
50	10 16	165	19	125	4	M 16	19	14,8	29,2		20,5	234	316,5	150	250	143	10,0	11,5
65	10 16	185	19	145	4	M 16	19	17,3	33,8		24	305	397,5	170	270	180	15,5	17,5
80	10 16	200	19	160	8	M 16	19	17,3	33,8		24	312,5	412,5	180	280	180	16,5	20,0
100	10 16	220	19	180	8	M 16	19	19,3	37,2	3°	24	343	453	190	300	212	20,5	25,5
125	10 16	250	19	210	8	M 16	19	19,3	34,9		26	421	546	200	325	289	33,0	37,5
150	10 16	285	19	240	8	M 20	23	19,3	34,9		26	433	576	210	350	289	37,0	43,5
200	10 16	340	20	295	8 12	M 20	23	24,3	47,3		30	541	711	230	400	356	60,5	71,5





E3 Valve

With flange DN 250 - 400, PN 10 | PN 16

Design features

- Resilient seated gate valve with smooth straight-through bore in compliance with EN 13774 (EN 1074-1 and 2)
- Flanges sized in accordance with EN 1092-2, drilled according to

EN 1092-2 | PN 10 standard (4005*E*3, 4705*E*3); EN 1092-2 | PN 16 from DN 200 (4005*E*3, 4705*E*3) Please specify on order - other standards on request

- Wedge guide with high glide characteristics; loadoptimised design guarantees lowest wear and minimum closing torques
- Wedge nut allows high torque load through large dimensioning of the required thread length
- O-rings, lip seals mounted in rust-proof material on all sides
- Edge protection protects during transport and storage
- Ball bearings (DN 250 to DN 400) in the spindle seating minimizes closing forces
- Easy to actuate without bypass and without power boost - even for 16 bar differential pressure
- For the assembling of a position indicator it is necessary to remove the centering flange and mount the adapter for position indicator
- 100% suitable for underground installation

Standard version: without handwheel and

extension spindle

Design versions: with position indicator:

No. 4005ST**E3**

Temperature range: operation: -10 °C to 50 °C

storage: -25 °C to 70 °C



ill. DN 300

		МОР	D	imensions/DN					
Order no.	Version	(PN)	250	300	350	400			
4005 <i>E</i> 3	short EN 558-1 GR 14	16							
4705 <i>E</i> 3	long EN 558-1 GR 15	16				*			

^{*} in preparation

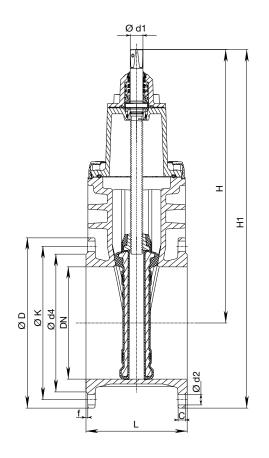
Suitable accessories:

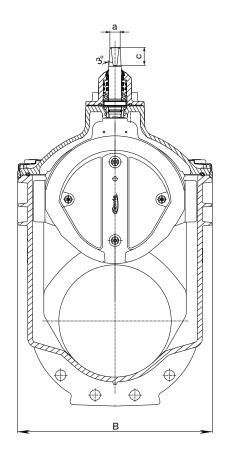
Handwheel: No. 7800
Extension spindles: rigid No. 9000*E2/E3* telescopic No. 9500*E2/E3*

Surface boxes: rigid No. 1755

Base plate: No. 3481, No. 3490







DN	МОР		F	lange				Bolts		S	pindl	е			Valve	Weight			
	(PN)	ØD	С	ØK	Ød4	f	Qty.	Thread	Ød2	а	С	$\emptyset d1$	Н	H1	L short	L long	В	short	long
250	10	400	22	350	319	3	12	M 20	23	27,3	48	34	649 849	040	250		432	99,0	
250	16	400	22	355		3		M 24	28					049					
300	10	455	04.5	400 410	367	4	12	M 20	23	27,3	48	34	731	959	270	500	518	151,0	169.0
300	16	455	24,5	410		4		M 24	28	21,3									100,0
350	10	520	26,5	460	427	4	16	M 20	23	27,3	48	34	816	1076	290		604	206,5	
330	16	320	20,5	470	421	4		M 24	28	21,3		34					004	200,5	
400	10	580	00	515	477	4	10	M 24	28	20.2	55	44	925	25 1215	5 310	600*	687	266,0	310*
400	16	560	28	525	4//	4	16	M27	31	32,3						600*			

^{*} in preparation



The specified pressure test for gas-valves is certified by an acceptance test certificate to EN 10204 -3.1.

