E3 Gate valve | Combi valves
Overview

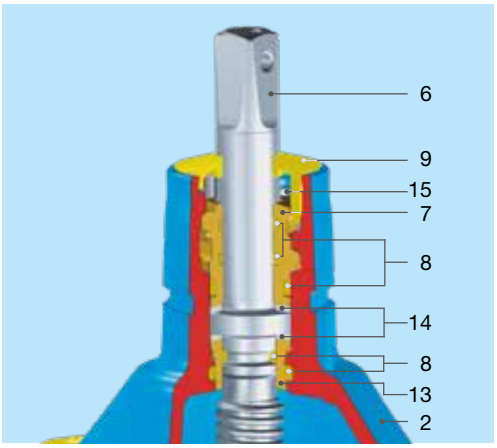
Design features

- 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

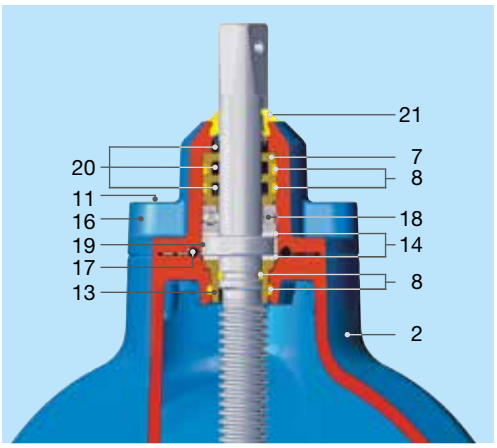
Material | Technical features

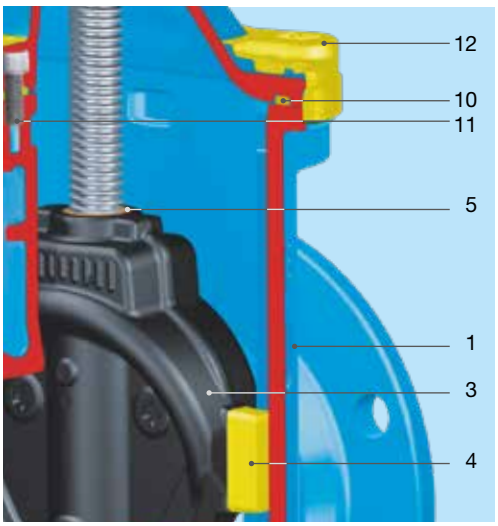
1,2 16	**Body** (1), **bonnet** (2), **centering flange** (16) made of ductile iron, epoxy powder coated inside and out
3	**Wedge** made of ductile iron (DN 50 made of dezincification-resistant brass) with vulcanized elastomer all-over
4	**Wedge guide** made of wear-resistant plastic
5	**Wedge nut**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





E3 Valve for pe fusion
DN 50 — 200, PN 6 | PN 10

No. 4055*E3*
No. 4056*E3*

Design features

- Resilient seated gate valve with PE fusion tails in combination with PE pipes according to EN 1555-2, DIN 8074
- This resilient seated valve has PE tails screwed and sealed into the sockets
- High performance sealing of the PE tails within the sockets is assured by two separate seals and a support liner
- The valve can be connected to the PE pipeline by either butt fusion or electrofusion
- **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** mounted in rust-proof material on all sides
- **Edge protection** protects during transport and storage
- **Friction washers** 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

Temperature range: operation: -10 °C to 50 °C
storage: -25 °C to 70 °C

1 **PE-fusion tail**
Standard version PE 100-RC injection moulded
Support liner DN 50 made of POM, from DN 65 — DN 200 made of stainless steel for PE-fusion tail (see drawing)

2 **Socket sealing** made of elastomer

3 **O-Ring** made of elastomer

Order no.	MOP (PN)	Dimensions/DN Pipe Ø								
		50	65	80	100	100	150	150	200	200
		63	75	90	110	125	160	180	200	225
4055*E3*	10									
4056*E3*	6									

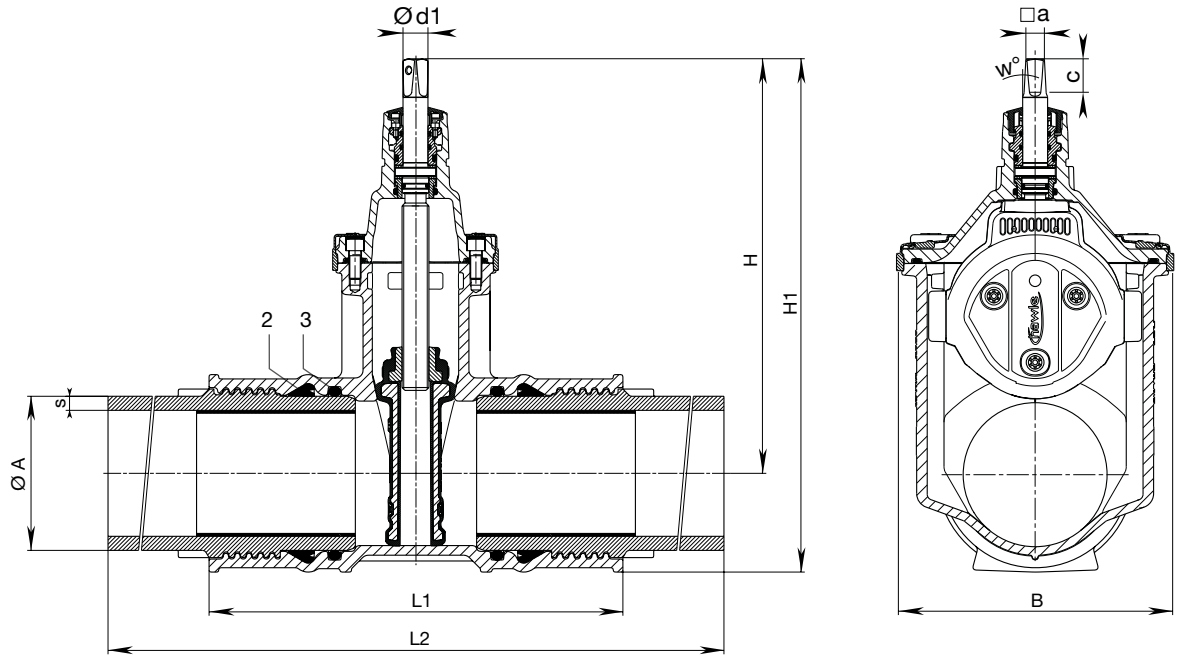
PE-fusion tail: No. 4055***E3*** PN 10 / SDR 11
No. 4056***E3*** PN 6 / SDR 17
(No. 4056***E3*** PN 6 / SDR 17.6 on request)

Material | technical features

1, 2 **Body** (1) and **Bonnet** (2) made of ductile iron, inside and outside epoxy powder coated, ring groove on head part for a pinless force-fitting connection of the extension spindles
3 **Stainless steel** spindle with rolled thread and flat-rolled sealed sliding surface
4 **Wedg**e made of ductile iron, inside and out with vulcanized elastomer
5 **Wedge guide** made of wear-resistant plasti
6 **Wedge nut** made of dezincification-resistant brass
7 **O-ring bush** made of brass
8,16 **O-rings** made of elastomer
9 **Back seal** made of elastomer
10 **Retaining ring** made of POM
11 **Wiper ring** made of elastomer
12 **Bonnet gasket** made of elastomer
13 **Allen screws** encased into the body with an enclosing gasket and wax, ensuring full corrosion protection
14 **Edge protection** made of PE
15 **Friction washers** made of POM
17 **Socket sealing** made of elastomer
18 **PE-fusion tail** Standard version PE 100 injection moulded, Support liner of stainless steel assembled in PE-fusion tail

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	



PE-fusion tail: No. 4050E3 PN 16 / SDR 11
No. 4051E3 PN 10 / SDR 17
(No. 4051E3 PN 10 / SDR 17.6 on request)

DN	ØA	Valve with PE tails							Spindle				Weight
		s (SDR 17)	s (SDR 11)	H	H1	L1	L2	B	□ a	c	w°	Ød1	
50	63	3,8	5,8	234	283	280	648	143	14,8	29,2	3°	20,5	11,0
65	75	4,5	6,8	305	361	295	657	180	17,3	33,8		24	17,0
80	90	5,4	8,2	313	377	310	668	180	17,3	33,8		24	19,0
100	110	6,6	10,0	343	419	340	710	213	19,3	37,2		24	26,0
100	125	7,4	11,4	343	428	395	761	213	19,3	37,2		24	30,5
125	140	8,3	12,7	421	513	390	756	285	19,3	34,9		26	31,5
150	160	9,5	14,6	433	536	430	796	285	19,3	34,9		26	50,0
150	180	10,7	16,4	433	548	458	814	285	19,3	34,9		26	57,5
200	200	11,9	18,2	541	679	514	900	357	24,3	47,3		30	88,0
200	225	13,4	20,5	541	679	514	900	357	24,3	47,3		30	90,0

DVGW GEPRÜFT
REG. No. G 1.475

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

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