

# E3 Gate valve | Combi valves



## Overview

### Design features

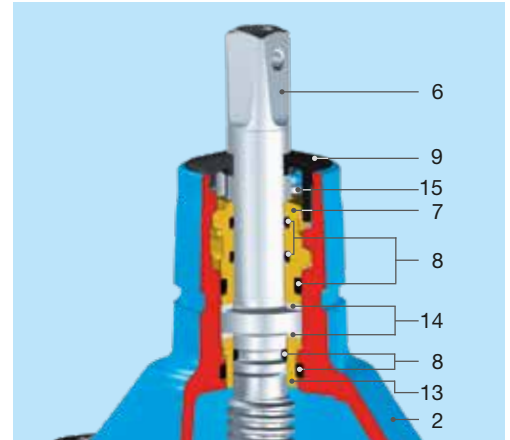
- Resilient seated gate valve according to EN 1171, EN 1074-1 and EN 1074-2 with smooth, straight-through bore
- Double bayonet O-ring carrier is connecting the spindle to the bonnet, allowing a fully encased, uniform epoxy powder coated bonnet for further improved corrosion protection
- Wedge guide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

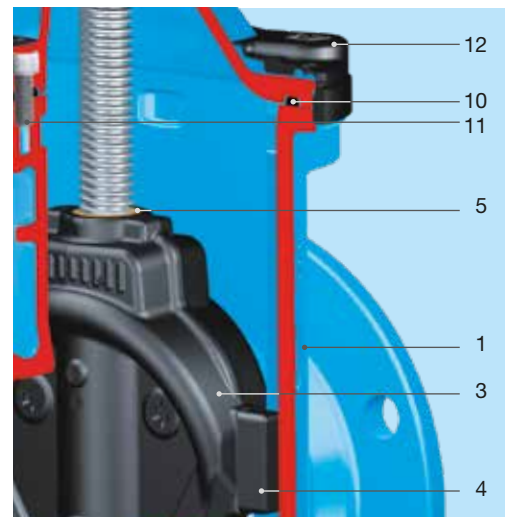
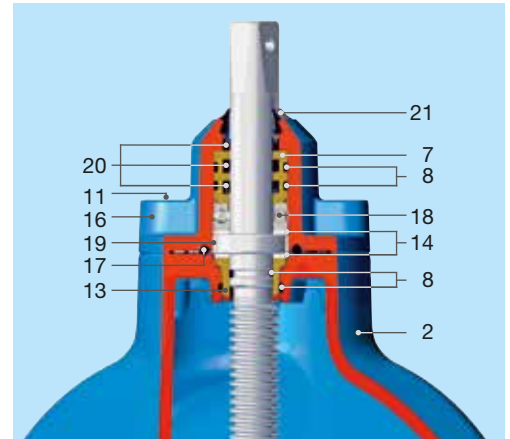
- 1,2 Body (1), bonnet (2), centering flange (16) made of ductile iron, epoxy powder coated inside and out
- 3 Wedge made of ductile iron (DN 50 made of dezincification-resistant brass) with vulcanized elastomer all-over
- 4 Wedge guide made of wear-resistant plastic
- 5 Wedge nut made of dezincification-resistant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

## DN 50 – 200, PN 10 | PN 16



### Design features

- Resilient seated gate valve with flange and PE fusion tail in combination with PE pipes according to EN 12201, DIN 8074
- This resilient seated valve has one flange and one PE tail 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
- 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
- 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

**No. 4090E3**  
**No. 4091E3**

**Standard version:** without handwheel and extension spindle  
**Special versions:** on request



### Material | technical features

#### 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

### 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.	MOP (PN)	Dimensions/DN Pipe Ø								
		50	65	80	100	100	125	150	150	200
4090E3	16	63	75	90	110	125	140	160	180	225
4091E3	10									

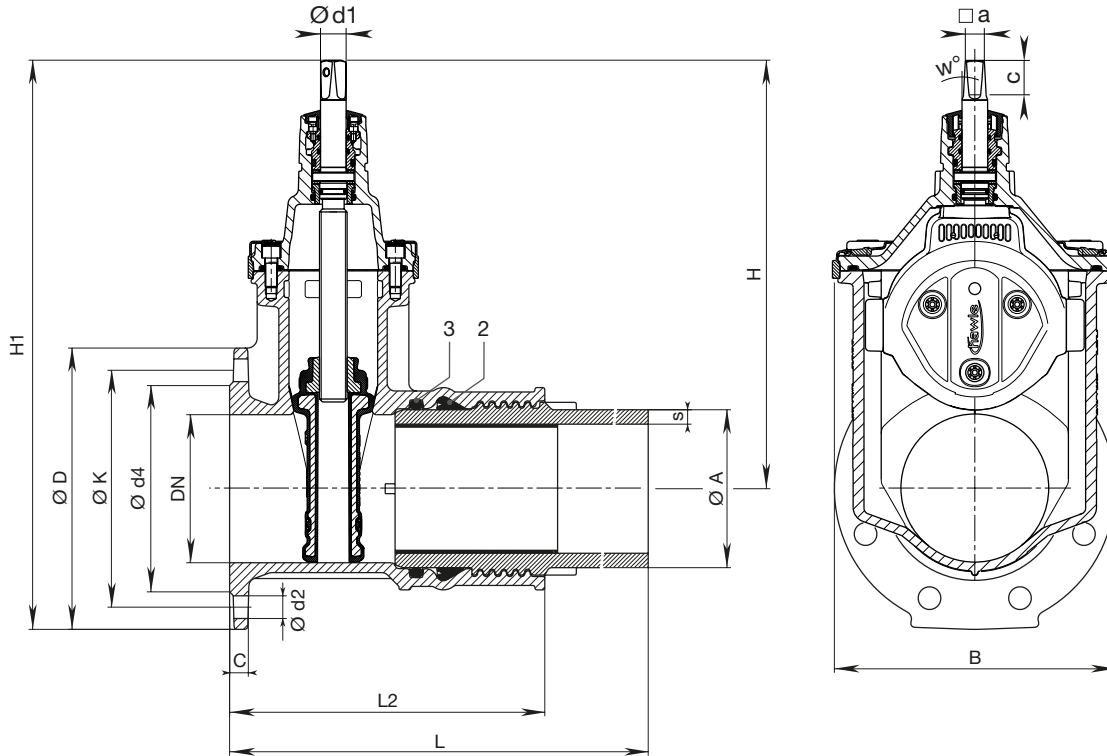
**PE-fusion tail:** No. 4090E3 PN 16 / SDR 11  
No. 4091E3 PN 10 / SDR 17  
(No. 4091E3 PN 10 / SDR 17.6 on request)

# E3 Valve flange | PE tail

## DN 50 – 200, PN 10 | PN 16

No. 4090E3

No. 4091E3



### PE-fusion tail:

No. 4090E3 PN 16 / SDR 11

No. 4091E3 PN 10 / SDR 17

(No. 4091E3 PN 10 / SDR 17.6 on request)

DN	Ø Pipe	Flange				Bolts			Valve with PE tails							Spindle				Weight
		Ø D	C	Ø K	Ø d4	Qty.	Thread	Ø d2	s (SDR 17)	s (SDR 11)	H	H1	L	L2	B	a	c	w°	Ø d1	
50	63	165	19	125	98	4	M 16	19	3,8	5,8	234	316	399	215	143	14,8	29,2	3°	20,5	11,5
65	75	185		145	118	4	M 16	19		6,8	305	397	416	235	180	17,3	33,8		24	17,0
80	90	200		160	133	8	M 16	19	5,4	8,2	313	413	425	245	180	17,3	33,8		24	18,0
100	110	220		180	153	8	M 16	19	6,6	10,0	343	453	450	265	213	19,3	37,2		24	25,0
100	125	220		180	153	8	M 16	19		11,4	343	453	476	293	213	19,3	37,2		24	26,5
125	140	250		210	183	8	M 16	19		12,7	421	546	485	310	285	19,3	34,9		26	38,0
150	160	285		240	209	8	M 20	23		14,6	433	576	503	320	285	19,3	34,9		26	44,5
150	180	285		240	209	8	M 20	23		16,4	433	576	512	334	285	19,3	34,9	26	49,5	
200	225	340	20	295	264	8/12	M 20	23	13,4	20,5	541	711	565	372	357	24,3	47,3	30	78,0	