

# Hawle E2 Valve Flanged Ends

Hawle E2 Sluice Valves from 50 – 200 mm and 250 – 600 mm



TECHNICAL GUIDE: **AVH1.1**

## Applications

Municipal water supply systems

Isolation

Pump stations

Main line isolation

## Product Attributes

Wear resistant wedge guides

Does not require a bypass at 100% differential

Lowest closing torques at full differential

100% suitable for actuation

No gearbox required

## Approvals/Standards

WRAS Approved Coatings

EN 1074-1, EN 1074-2, EN 12266-1

Flanges to AS2129, AS4087, EN1092

## Quality

ISO 9001 Quality Management

## E2 Valve Flanged Ends DN50 – 200

The Hawle E2 resilient seated gate valves are a quality designed valve with customer features. The wear resistant guides ensure easy operation and long life while the 'O' ring system allows field maintenance under pressure.

### Standard Version

Without handwheel and extension spindle

### Design Versions

- For electric actuator
- With position indicator

### Special Versions

On request for DN 500 or DN 600

- Angular gear drive type
- With bypass valve
- With air release valve
  - *For small air volume in the bonnet\**

Note: \*Not for the main pipeline

### Design Specifications

- Standard version without hand wheel and extension spindle
- Design version for electric actuator
- Design version with position indicator
- Flanges according to EN 1092-2 various drilling available including AS4087 CI16 and EN1092 PN16
- For DIN 2501-PN 16 please specify on order, additional standards available on request

### Optional Accessories

- Hand wheel
- Extension spindles: rigid/telescopic

### Model Attributes

Easiest retrofitting of position indicator and automatic actuator on the standard bonnet possible

- One extension spindle for several dimensions
- Replaceable O-rings under pressure (according ISO 7259)

TABLE 1

No.	Component	Materials/Description
1/2	Body and bonnet	Ductile iron EN-GJS-400-18 according to EN 1563 (GGG 400 – DIN 1693) inside and outside epoxy powder coated according to DIN 30677-T2 in accordance with DIN 3476
3	Spindles	Stainless St 1.4021 (X20Cr13), with rolled thread
4	Wedge	Ductile iron EN-GJS-400-18 according to EN 1563 (GGG 400 – DIN 1693), inside and outside fully rubberized with vulcanized elastomer
5	Wedge guide	Wear resistant plastic with high gliding features
6	Wedge nut	Dezincification resistant brass CuZn36Pb3As
7	O ring bush	Ms 58
8	O-rings	Elastomer, embedded in non-corrosive material (according to DIN 3547-T1) and replaceable under pressure (according to ISO 7259)
9	Back seal	Elastomer
10	Circlip	POM
11	Wiper ring	Elastomer
12	Bonnet gasket	Elastomer
13	Allen screws	St 8.8 DIN 912 absolutely corrosion protected by being sunk into the body and sealed, and by passing through bonnet gasket
14	Edge protecting ring	PE avoids damages during transport and storage
15	Friction washers	POM guarantees smooth spindle guiding

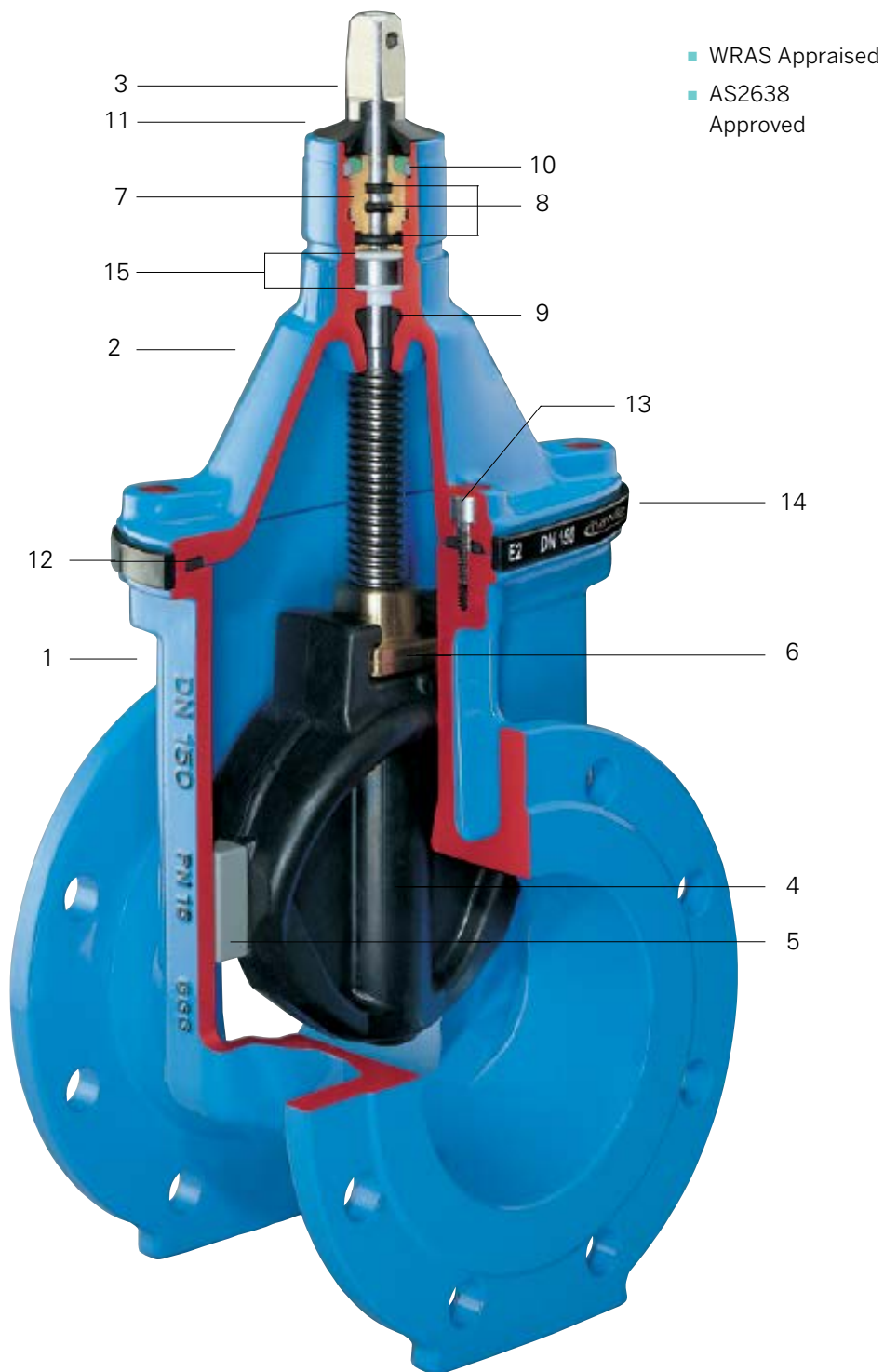


FIG. 1 E2 Valve Flanged Ends 50 - 200

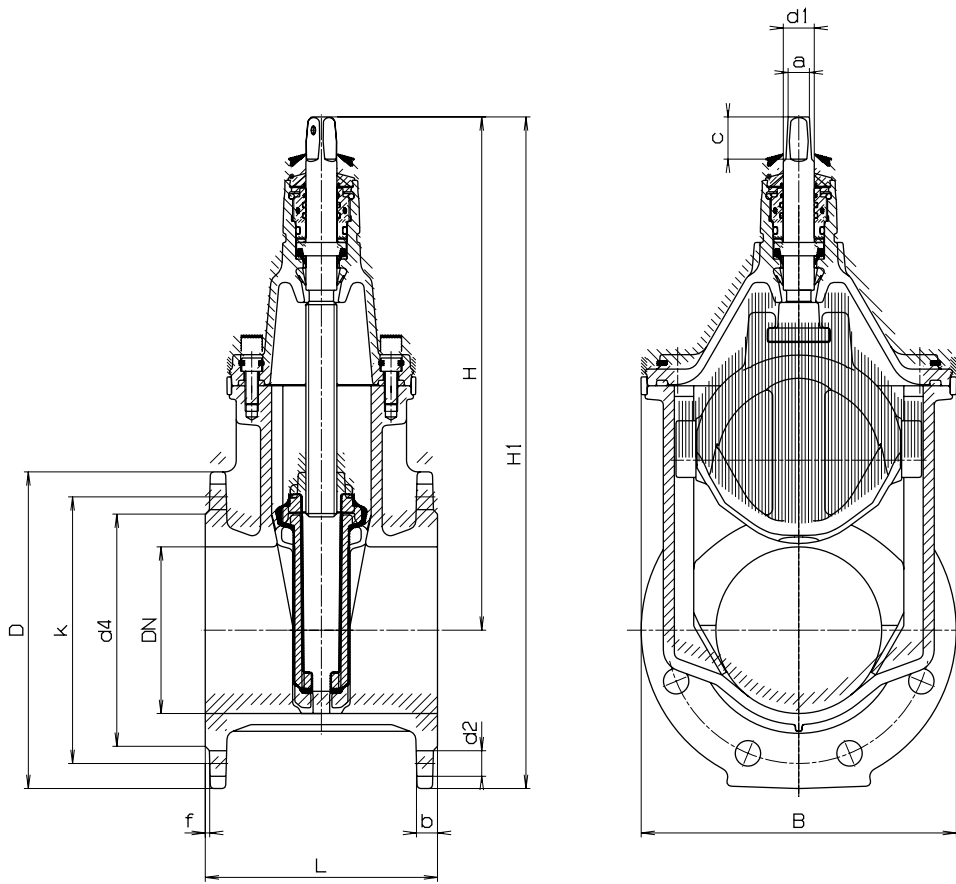


FIG. 2

TABLE 2

Dn	Pn	Flange					Bolts			Spindle				Valve				Weight (kg)			
		D	b	k	d4	f	Qty.	Thread	d2	a	c	d1	H	H1	L		B	Short	Long	BS 5163	
															Short	Long	BS 5163*				
50	$\frac{10}{16}$	165	19	125	98	3	4	M16	19	14.8	30	22	260	342	150	250	178	143	11.0	12.0	11.5
65	$\frac{10}{16}$	185	19	145	118	3	4	M16	19	17.3	35	25	328	420	170	270	-	180	17	18.5	-
80	$\frac{10}{16}$	200	19	160	133	3	8	M16	19	17.3	35	25	336	436	180	280	203	180	18.5	20.5	19.0
100	$\frac{10}{16}$	220	19	180	153	3	8	M16	19	19.3	38	25	373	483	190	300	229	213	24.5	27.5	26.0
125	$\frac{10}{16}$	250	19	210	183	3	8	M16	19	19.3	38	28	450	575	200	325	-	285	35.0	38.0	-
150	$\frac{10}{16}$	285	19	240	209	3	8	M20	23	19.3	38	28	462	605	210	350	267	285	40.5	46.0	45.0
200	$\frac{10}{16}$	340	20	295	264	3	$\frac{8}{12}$	M20	23	24.3	48	32	563	733	230	400	292	357	64.0	72.0	67.5

Note: \* This version is our standard stock in New Zealand.

## E2 Valve Flanged Ends DN250 – 600

The Hawle E2 resilient seated gate valves are a quality designed valve with customer features. The wear resistant guides ensure easy operation and long life while the 'O' ring system allows field maintenance.

### Standard Version

Without handwheel and extension spindle

### Options

- For electric actuator
- With position indicator

### Special Versions

On request for DN 500 or DN 600

- Angular gear drive type
- With bypass valve
- With air release valve
  - *For small air volume in the bonnet\**

Note: \*Not for the main pipeline

### Suitable Accessories

- Handwheel
- Extension spindles
  - *Rigid*
  - *Telescopic*
- Surface boxes

### Model Attributes

- Can be easily actuated without by-pass and without power assist, even at a differential of 16 bar.
- Replaceable O-rings without pressure
- Spindles supported in ball bearings permit minimum closing forces
- For attaching an actuator or a position indicator: take off centre ring flange and put on position indicator or actuator with drive adapter
- 100% suitable for underground installation

TABLE 3

No.	Component	Materials/Description
1/2/16	Body/Bonnet/Centre housing	Ductile iron EN-GJS-400-18 according to EN 1563 (GGG 400 - DIN 1693) inside and outside epoxy powder coated according to DIN 30677-T2 in accordance with DIN 3476.
3	Spindles	Stainless steel St 1.4021 (X20Cr13), with rolled thread
4	Wedge	Ductile cast iron EN-GJS-400-18 according to EN 1563 (GGG 400 – DIN 1693), fully rubberized with vulcanized elastomer.
5	Wedge guide	Wear resistant plastic with high gliding features
6	Wedge nut	Dezincification resistant brass CuZn36Pb3As
7	O-ring bush	Ms 58
8/18	O-rings/Sealing O-rings	Elastomer, embedded in non-corrosive material (according to DIN 3547-T1) and replaceable without pressure
9	Back seal	Elastomer
11	Wiper ring	Elastomer
12	Bonnet gasket	Elastomer
13	Allen screws	St 8.8 DIN 912 absolutely corrosion protected by being sunk into the body and sealed, and by passing through bonnet gasket
17	Ball bearing	
19	Centre ring	POM
20	Centre housing gasket	Elastomer



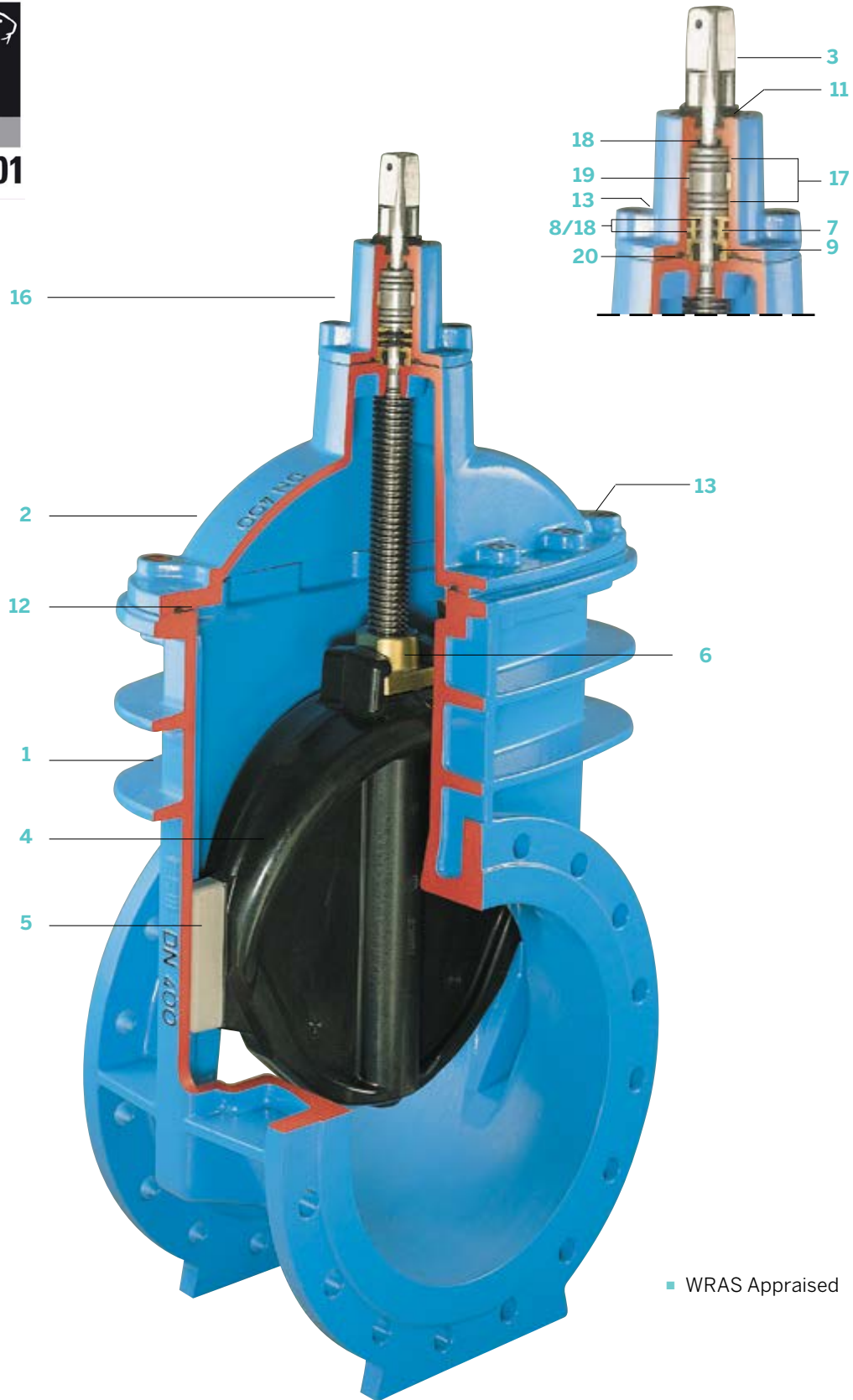


FIG. 3 E2 Valve Flanged Ends DN 250 – 600

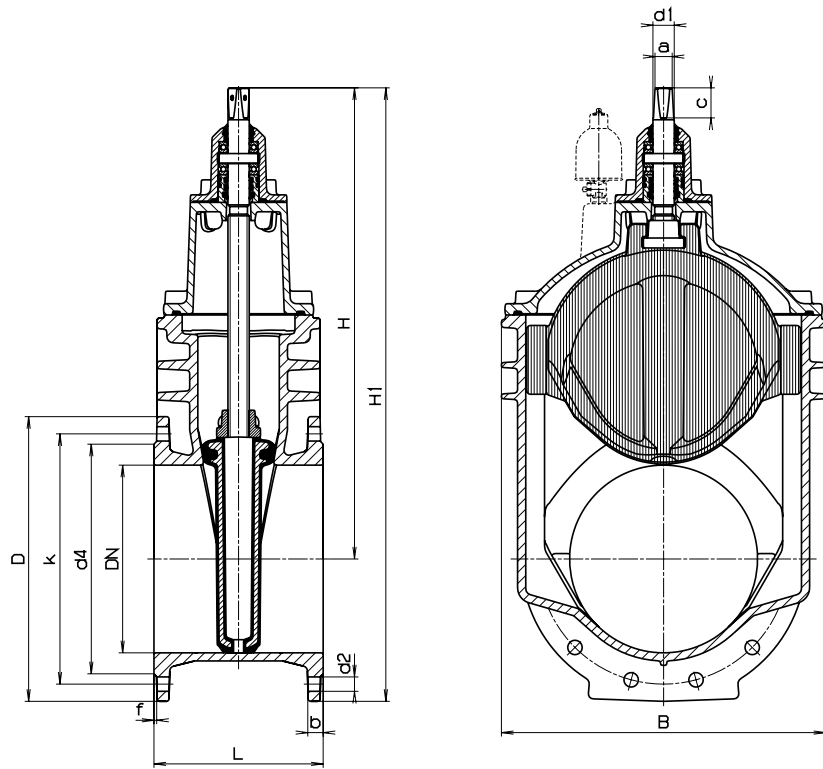


FIG. 4

TABLE 4

Dn	Pn	Flange					Bolts			Spindle			Valve			Weight (kg)					
		D	b	k EN	d4	f	Qty.	Thread	d2	a	c	d1	H	H1	L		B	Short	Long	Bs 5163	
																	Short Long BS 5163				
250	10	400	22	350	319	3	12	M20	23	27,3	48	34	670	870	250	450	330	432	100,0	121,0	104,0
	16			355				M24	28												
300	10	455	24.5	400	367	4	12	M20	23	27,3	48	34	753	981	270	500	356	518	147,0	170,0	153,5
	16			410				M24	28												
350	10	520	26.5	460	427	4	16	M20	23	27,3	48	34	838	1098	290	-	-	604	205,0	-	-
	16			470				M24	28												
400	10	580	28	515	477	4	16	M24	28	32,3	55	44	974	1264	310	600	-	687	261,0	300,0	-
	16			525				M27	31												
450*	10	640	30	565	530	4	20	M24	28	32,3	55	44	974	1310	-	650	-	687	-	332,0	-
	16			585				M27	31												
500*	10	715	31.5	620	582	4	20	M24	28	32,3	55	44	974	1345	-	700	-	687	-	371,0	-
	16			650				M30	34												
500	10	715	31.5	620	582	4	20	M24	28	36,3	66	50	1220	1578	350	700	-	800	479,0	542,0	-
	16			650				M30	34												
600	10	840	36	725	720	5	20	M27	31	36,3	66	50	1377	1797	390	800	-	944	710,0	810,0	-
	16			770				M33	37												

Note: \* This version is our standard stock in New Zealand.



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