

PRATT[®]

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ISO RESILIENT WEDGE GATE VALVE

Engineering Creative Solutions for Fluid Systems Since 1901



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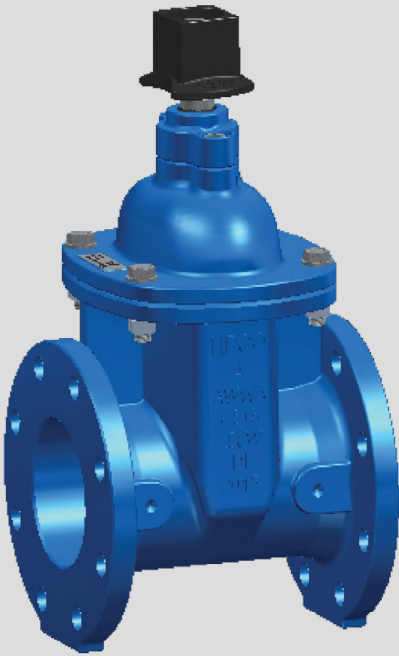
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SCOPE OF LINE

ISO Resilient Wedge Gate Valve



METAL SEAT SOLID WEDGE VALVE

MODEL: ISO-DE Flanged Butterfly Valve

SIZES: DN100 through DN1800

PRESSURE CLASS: PN10 (10 bar) or PN16 (16 bar)

BODY STYLE: Short (ISO-DES) and Long (ISO-DEL)

Body face to face, flanged ends drilled in accordance with EN-558-1 / ISO 5752 / BS EN 1092

BODY AND DISC MATERIAL: Ductile iron ASTM A536 Gr. 65-45-12 standard, exceeds DIN-GGG-40 and BS-2789 Grade 420 requirements.

RUBBER SEAT: Rubber seat mechanically retained in disc by means of a specially engineered ductile seat retaining ring and 304 stainless steel nylon lock screws.

ACTUATION OPTIONS:

- Gear with Handwheel (Standard)
- Hydraulic Actuation
- Pneumatic Actuation
- Electric Actuation

COATING: Epoxy coating system approved for drinking water applications. Fusion bonded epoxy coating on valves up to DN1200 standard.

RANGE OF APPLICATIONS: Water, sea water*, high temperature*, gas*.

* Available for these applications upon request.

Please contact a Pratt® representative or your local sales representative for details.

FEATURES:

- Stainless steel dry shaft completely sealed off by rubber O-Rings on sealing sleeve and by dry pins.
- Teflon lined filament wound bearings for long service life and lower operating torque.
- Double eccentric design optimizes the seal of the seat retaining ring allowing the disc to seal tightly while retaining the seat in position against high pressure and flow.
- Specially engineered seat sealing system adds to longer service life and lower operating torque.

SUGGESTED SPECIFICATIONS

ISO Resilient Wedge Gate Valve

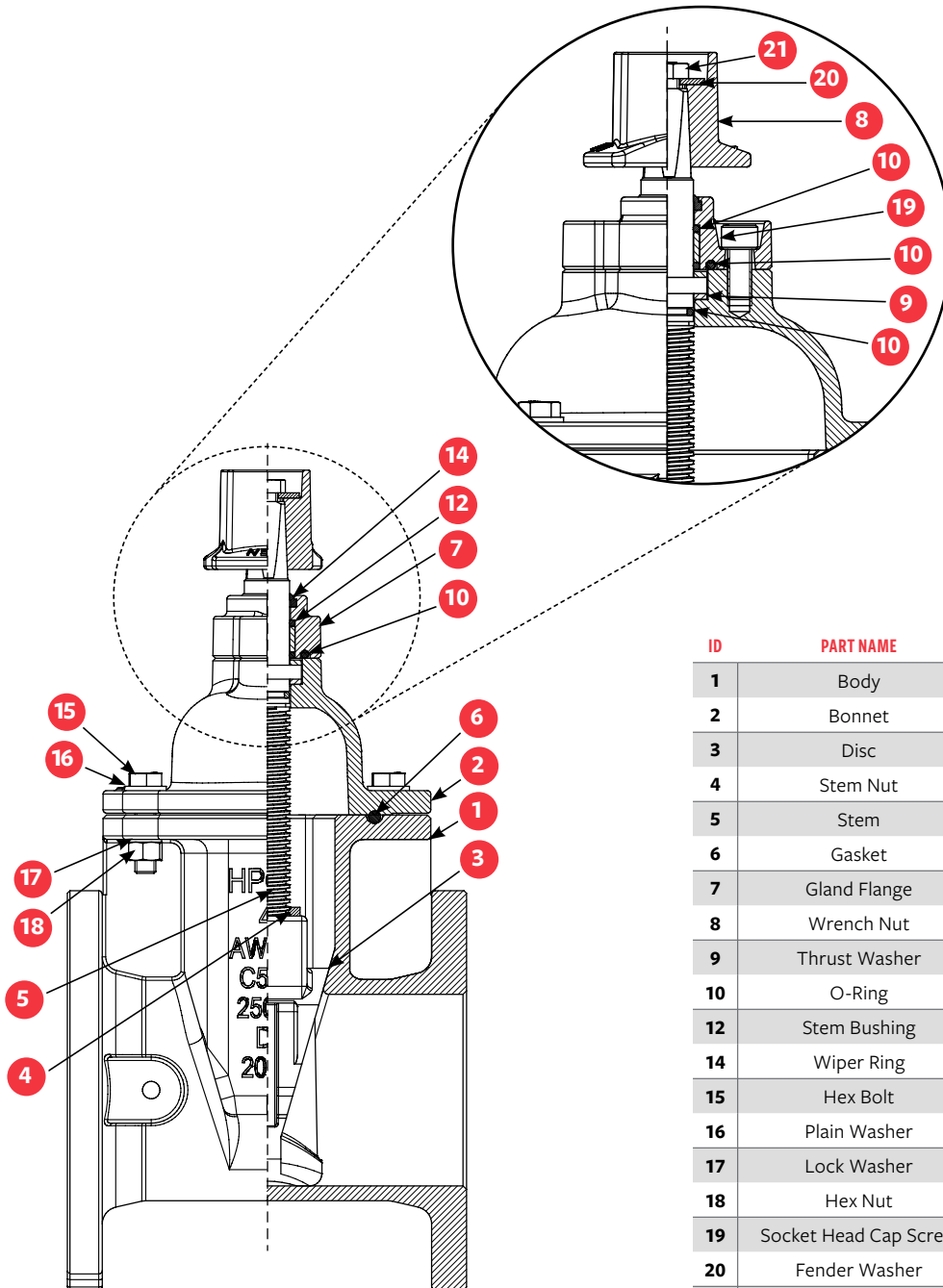
GENERAL

Metal Seat Solid Wedge Gate Valves for wastewater and sewage applications should be manufactured in accordance with AWWA C500 standards. Pressure containing components should be ductile iron ASTM A536 65-45-12 and wedge seating surfaces and body seat rings are be cast from ASTM B62 bronze. Stems should have integral collars and be machined from corrosion resistant grade 304 stainless steel. Body and bonnet fasteners should be of rustproof material having the physical properties of ASTM A307.

Wedge valves are to be designed and manufactured with minimal moving parts to prevent clogging or buildup of foreign matter. Valve coatings shall be consistent with AWWA C500 standard. Valve testing and all markings shall conform to AWWA C500 standard.

C515 RESILIENT WEDGE GATE VALVE

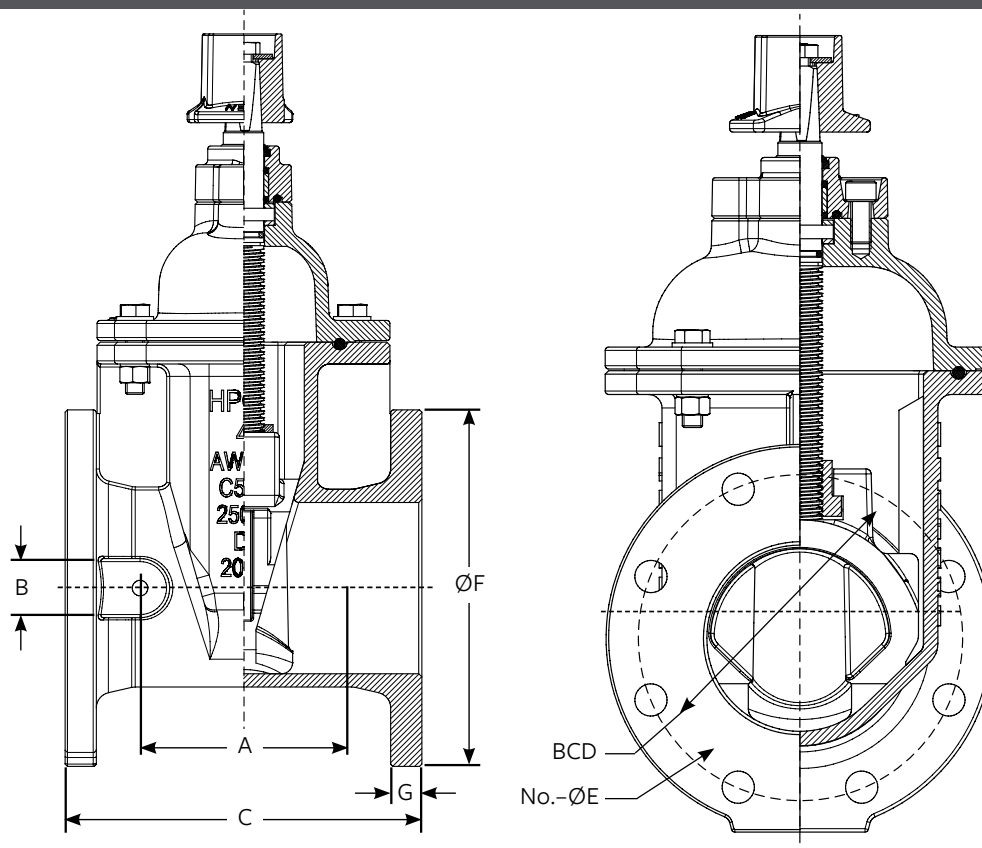
Part Drawing



ID	PART NAME	MATERIAL STANDARDS
1	Body	ASTM B536 65-45-12
2	Bonnet	STM B536 65-45-12
3	Disc	ASTM B536 65-45-12 / EPDM
4	Stem Nut	ASTM B584 C83600
5	Stem	Stainless Steel Type 304
6	Gasket	EPDM, ASTM D2000
7	Gland Flange	ASTM B536 65-45-12
8	Wrench Nut	ASTM B536 65-45-12
9	Thrust Washer	ASTM B584 C83600
10	O-Ring	EPDM, ASTM D2000
12	Stem Bushing	ASTM B584 C83600
14	Wiper Ring	EPDM, ASTM D2000
15	Hex Bolt	Stainless Steel Type 304
16	Plain Washer	Stainless Steel Type 304
17	Lock Washer	Stainless Steel Type 304
18	Hex Nut	Stainless Steel Type 304
19	Socket Head Cap Screw	Stainless Steel Type 304
20	Fender Washer	Stainless Steel Type 304
21	Cap Screw	Stainless Steel Type 304

C515 RESILIENT WEDGE GATE VALVE

Dimensional Data

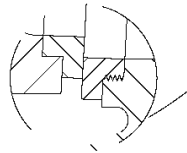


VALVE SIZE	A	B	C	BCD	NO.-ØE	ØF	G
2" / DN50	4.33 (110)	1.22 (31)	7.00 (178)	4.75 (121)	4 - 0.75 (19)	6.00 (152)	0.63 (16)
2-1/2" / DN65	3.78 (96)	1.50 (38)	7.00 (178)	5.50 (138)	4 - 0.75 (19)	7.00 (178)	0.69 (18)
3" / DN80	4.41 (112)	1.50 (38)	8.00 (203)	6.00 (152)	4 - 0.75 (19)	7.50 (191)	0.75 (19)
4" / DN100	5.23 (133)	1.50 (38)	9.00 (229)	7.50 (191)	8 - 0.75 (19)	9.00 (229)	0.79 (20)
6" / DN150	5.79 (147)	1.50 (38)	10.50 (267)	9.50 (241)	8 - 0.87 (22)	11.00 (279)	0.75 (19)
8" / DN200	6.38 (162)	1.50 (38)	11.50 (292)	11.75 (298)	8 - 0.91 (23)	13.50 (343)	0.88 (22)
10" / DN250	7.87 (199)	2.13 (54)	13.00 (330)	14.25 (362)	12 - 1.02 (26)	16.00 (406)	0.94 (24)
12" / DN300	8.90 (226)	2.13 (54)	14.00 (356)	17.00 (432)	12 - 1.02 (26)	19.00 (483)	1.00 (25)

VALVE SIZE	WT. - LBS (KG)	PART NO.
2" / DN50	27.1 (12)	0200-BGV515-125-FFNL
2-1/2" / DN65	35.5 (16)	0250-BGV515-125-FFNL
3" / DN80	46.9 (21)	0300-BGV515-125-FFNL
4" / DN100	65.5 (29)	0400-BGV515-125-FFNL
6" / DN150	100.3 (45)	0600-BGV515-125-FFNL
8" / DN200	165.5 (75)	0800-BGV515-125-FFNL
10" / DN250	232.3 (105)	1000-BGV515-125-FFNL
12" / DN300	341.5 (155)	1200-BGV515-125-FFNL

METAL SEAT SOLID WEDGE GATE VALVE: SIZE 3" - 12"

Part Drawing & Dimensional Data

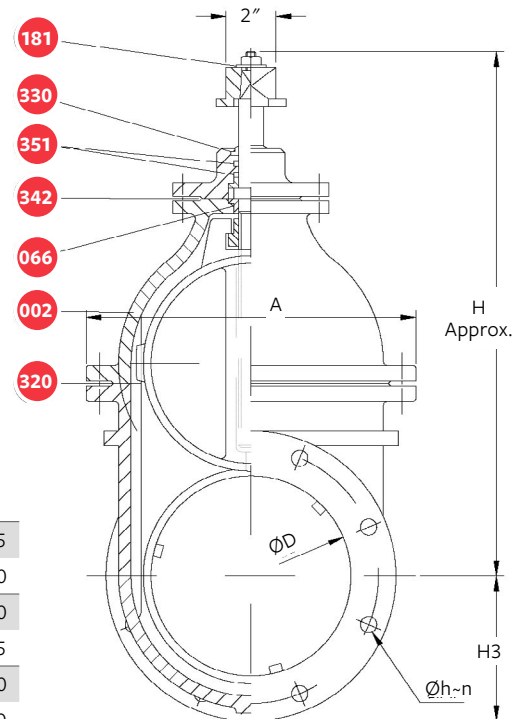
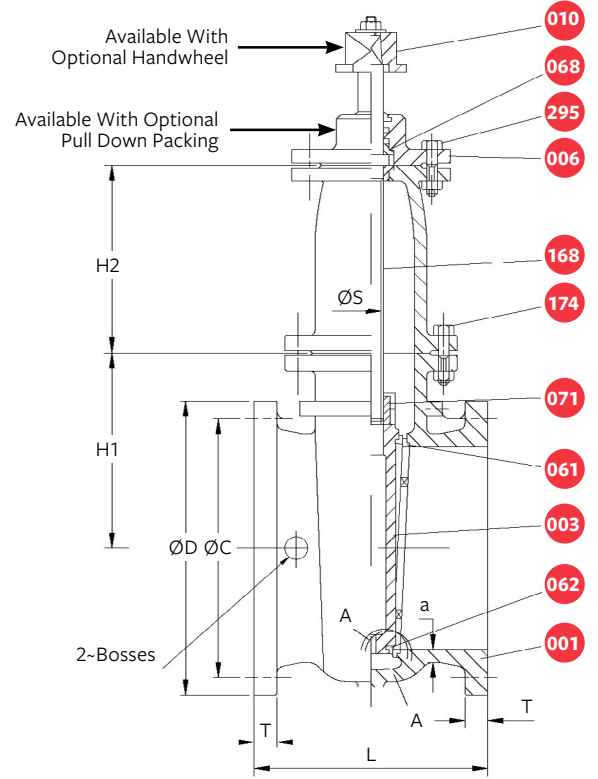


DETAIL A
SCREWED IN BODY SEAT

MATERIAL LIST

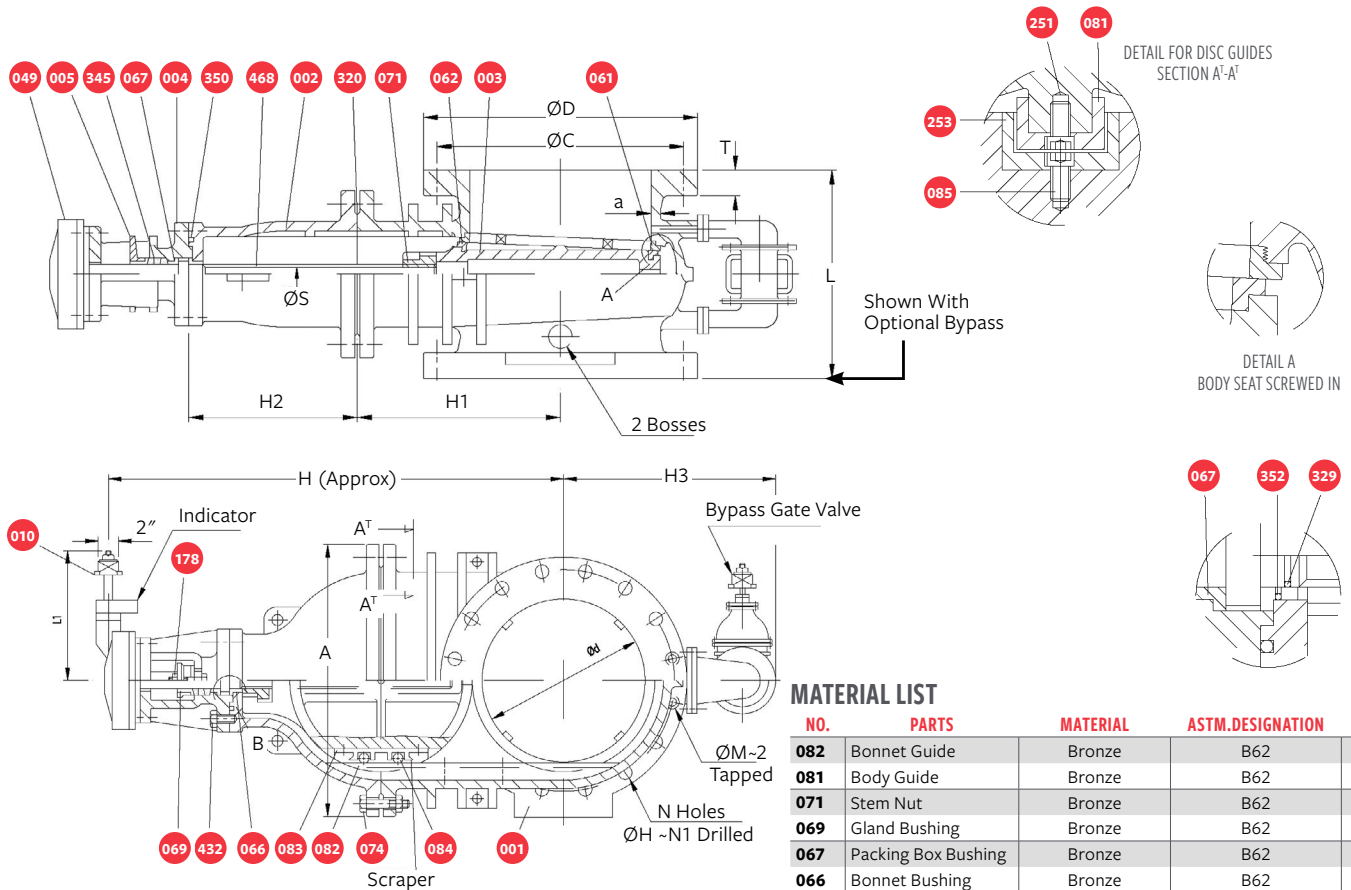
NO.	PARTS	MATERIAL	ASTM.DESIGN.	QTY
351	O-Ring	Rubber (Buna N)	D 2000 BK 707	2
342	Stuffing Box Gasket	Rubber (Buna N)	D 2000 BK 807	1
330	Wiper Ring	Rubber (Buna N)	D 2000 BK 707	1
320	Bonnet Gasket	Rubber (Buna N)	D 2000 BK 807	1
299	Stuffing Box Bolt	Zinc Coated Steel	A 307 Grade B	1 set
295	Stuffing Box Bolt & Nut	Zinc Coated Steel	A 307 Grade B	1 set
181	Top Nut	Zinc Coated Steel	A 307 Grade B	1
175	Bonnet Stud & Nut	Zinc Coated Steel	A 307 Grade B	1 set
174	Bonnet Bolt & Nut	Zinc Coated Steel	A 307 Grade B	1 set
168	Stem	Stainless Steel	A 276 Type 304	1
071	Stem Nut	Bronze	B62	1
068	Stuffing Box Bushing	Bronze	B62	1
066	Bonnet Bushing	Bronze	B62	1
062	Disc Seat Ring	Bronze	B62	2
061	Body Seat Ring	Bronze	B62	2
010	Operating Nut	Cast Iron	A 126 Class B	1
006	Stuffing Box	Ductile Iron	A 536 Gr.65-45-12	1
003	Disc	Ductile Iron	A 536 Gr.65-45-12	1
002	Bonnet	Ductile Iron	A 536 Gr.65-45-12	1
001	Body	Ductile Iron	A 536 Gr.65-45-12	1

SIZE ØD		ANSI B 16.1 CLASS 125							ØS AT BASE OF THREAD					
IN.	MM.	L	ØD	ØC	ØH	N	T	a (min)	A		H	H1	H2	H3
3	80	8	7-1/2	6	3/4	4	3/4	0.37	7.72	0.874	13.19	4.93	3.04	3.75
4	100	9	9	7-1/2	3/4	8	15/16	0.40	8.78	0.874	14.68	5.71	3.63	4.50
6	150	10-1/2	11	9-1/2	7/8	8	1	0.43	11.11	1.034	18.70	7.49	5.44	5.50
8	200	11-1/2	13-1/2	11-3/4	7/8	8	1-1/8	0.50	14.02	1.034	22.00	9.06	7.25	6.75
10	250	13	16	14-1/4	1	12	1-3/16	0.63	16.46	1.157	25.39	10.95	8.67	8.00
12	300	14	19	17	1	12	1-1/4	0.68	18.82	1.192	28.97	11.82	11.03	9.50



METAL SEAT SOLID WEDGE GATE VALVE: SIZE 14" - 24"

Part Drawing & Dimensional Data



SIZE ØD		ANSI B 16.1 CLASS 125								ØS AT BASE OF THREAD
IN.	MM.	L	ØD	ØC	Øh	N	T	a (min)	A	
14	350	15	21	18-3/4	1-1/8	12	1-3/8	0.78	22.76	1.398
16	400	16	23-1/2	21-1/4	1-1/8	16	1-7/16	0.87	26	1.556
18	450	17	25	22-3/4	1-1/4	16	9/16	0.95	29.29	1.556
20	500	18	27-1/2	25	1-1/4	20	1-11/16	1.10	32.52	1.831
24	600	20	32	29-1/2	1-3/8	20	1-7/8	1.18	36.54	2.028

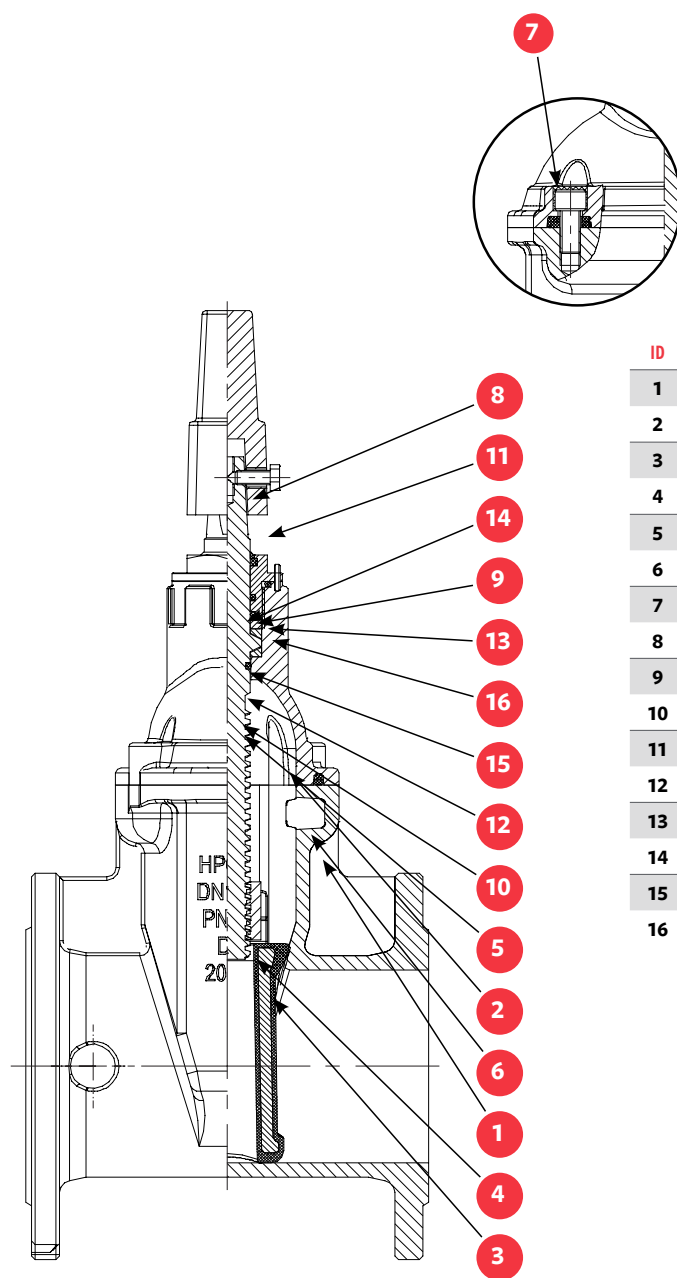
SIZE ØD		H	H1	H2	H3	L1	ØM	N1	GEAR RATIO	BYPASS SIZE
IN.	MM.									
14	350	38.58	14.59	12.68	11.50	11.18	1x8TPI (UNC)	10	2.5:1	2
16	400	44	16.64	14.38	25.79	14.58	1x8TPI (UNC)	14	3:1	3
18	450	47.33	18.71	15.59	27.88	14.58	1-1/8 x7TPI (UNC)	14	3:1	3
20	500	51.38	20.79	17.56	27.88	14.58	1-1/8 x7TPI (UNC)	18	3:1	3
24	600	60.24	22.05	24.73	32.63	17.32	1-1/4 x7TPI (UNC)	18	4:1	4

MATERIAL LIST

NO.	PARTS	MATERIAL	ASTM.DESIGNATION	QTY
082	Bonnet Guide	Bronze	B62	2
081	Body Guide	Bronze	B62	2
071	Stem Nut	Bronze	B62	1
069	Gland Bushing	Bronze	B62	1
067	Packing Box Bushing	Bronze	B62	1
066	Bonnet Bushing	Bronze	B62	1
062	Disc Seat Ring	Bronze	B62	2
061	Body Seat Ring	Bronze	B62	2
049	Gear Operator	See Table	-----	1 set
010	Operating Nut	Cast Iron	A 126 Class B	1
005	Gland	Ductile Iron	A 536 Gr.65-45-12	1
004	Packing Box	Ductile Iron	A 536 Gr.65-45-12	1
003	Disc	Ductile Iron	A 536 Gr.65-45-12	1
002	Bonnet	Ductile Iron	A 536 Gr.65-45-12	1
001	Body	Ductile Iron	A 536 Gr.65-45-12	1
432	Packing Box Bolt	Stainless Steel	A 276 Type 304	1 set
352	O-Ring C	Rubber (Buna N)	D 2000 BK 707	1
350	O-Ring A	Rubber (Buna N)	D 2000 BK 707	1
345	Packing	Braided Packing Synthetic Yarn with PTFE		1 set
329	O-Ring	Rubber (Buna N)	D 2000 BK 707	1
320	Bonnet Gasket	Rubber (Buna N)	D 2000 BK 807	1
253	Disc Guide	Bronze	B62	1
251	Body Guide Bolt	Stainless Steel	A 276 Type 304	1 set
178	Gland Bolt & Nut	Stainless Steel	A 276 Type 304	2
174	Bonnet Bolt & Nut	Stainless Steel	A 276 Type 304	1 set
168	Stem	Stainless Steel	A 276 Type 316	1
085	Disc Guide Bolt	Stainless Steel	A 276 Type 304	1
084	Roller	Bronze	B62	2
083	Roller Box	Bronze	B62	1

EN588-1 SERIES 3 RESILIENT WEDGE GATE VALVE

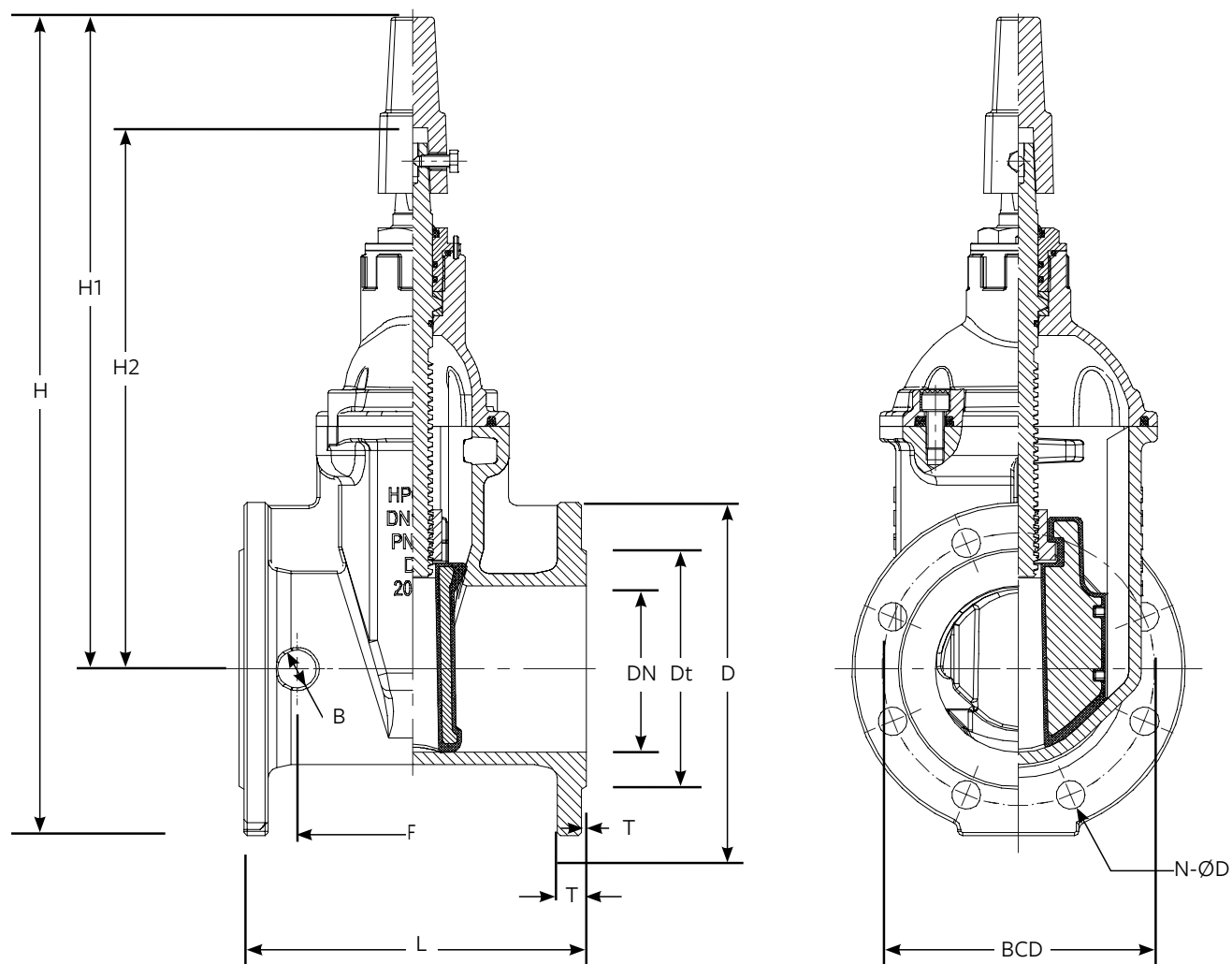
Part Drawing



ID	PART NAME	QTY.	MATERIAL	STANDARD
1	Body	1	EN-GJS-500-7 DI	EN1563:2011
2	Bonnet	1	EN-GJS-500-7 DI	EN1563:2011
3	Disc	1	EN-GJS-500-7 DI / EPDM	EN1563:2011
4	Stem Nut	1	CC331G AL BZ	EN1982:2008
5	Stem	1	1.4057 SS	EN10088-1:2005
6	Gasket	1	EPDM	WA, EN681-1:1996
7	Bonnet Bolt	4	304SS	GB/T 70.1-2008
8	Stem Cap	1	EN-GJS-500-7 DI	EN1563:2011
9	Gland Bushing	1	CW617N Brass	EN12164:2011
10	O-Ring	1	EPDM	WA, EN 681-1:1996
11	Cap Screw	1	304SS	GB/T 5783-2000
12	Thrust Collar	2	CW617N Brass	EN12164:2011
13	Groove Pin	1	316SS	-
14	Wiper Ring	1	EPDM	WA, EN681-1:1996
15	O-Ring	2	EPDM	-
16	O-Ring	1	EPDM	-

EN588-1 SERIES 3 RESILIENT WEDGE GATE VALVE

Dimensional Data

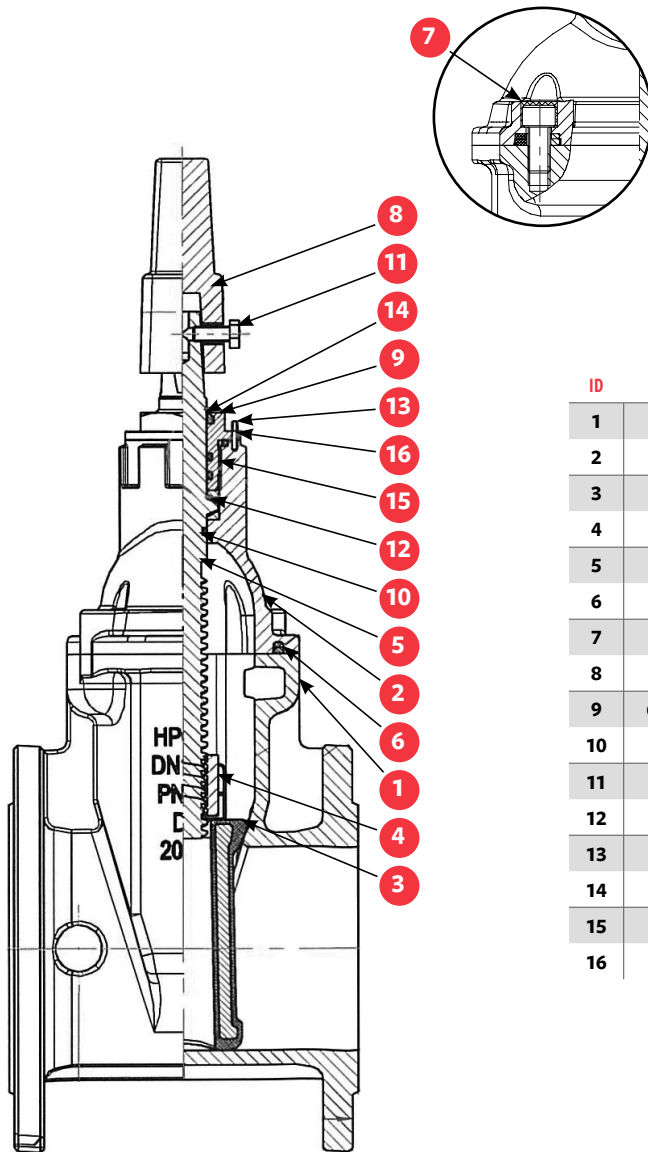


DN	PN	WT.-KG	F	B	H2	H1	H	t	T	N-ØD	BCD	DT	D	L	URNS TO CLOSE
50	PN16	13	102	25	263	346	429	3	19	4-Ø19	125	99	165	178	7
65	PN16	16	98	38	293	376	469	3	19	4-Ø19	145	118	185	190	9
80	PN16	19	111	38	323	406	506	3	19	4-Ø19	160	132	200	203	12
100	PN16	23	153	25	347	430	540	3	19	8-Ø19	180	155	220	229	14
125	PN16	34	167	38	421	494	619	3	19	8-Ø20	210	183	250	254	15
150	PN16	41	167	38	440	525	667	3	19	8-Ø23	240	211	285	267	17
200	PN10	64	192	45	520	605	775	3	20	8-Ø23	295	264	340	292	18
200	PN16	64	192	45	520	605	775	3	20	12-Ø23	295	264	340	292	18
250	PN10	109	213	54	616	712	914	3	22	12-Ø23	350	314	405	330	22
250	PN16	109	213	54	616	712	914	3	22	12-Ø28	355	319	405	330	22
300	PN10	164	192	45	520	605	775	4	20	12-Ø23	400	362	460	356	25
300	PN16	164	239	54	707	803	1031	4	25	12-Ø28	410	367	460	356	25

Standard Clockwise-Close (Open-Left). Anticlockwise-Close available to special order.

EN588-1 SERIES 14 RESILIENT WEDGE GATE VALVE

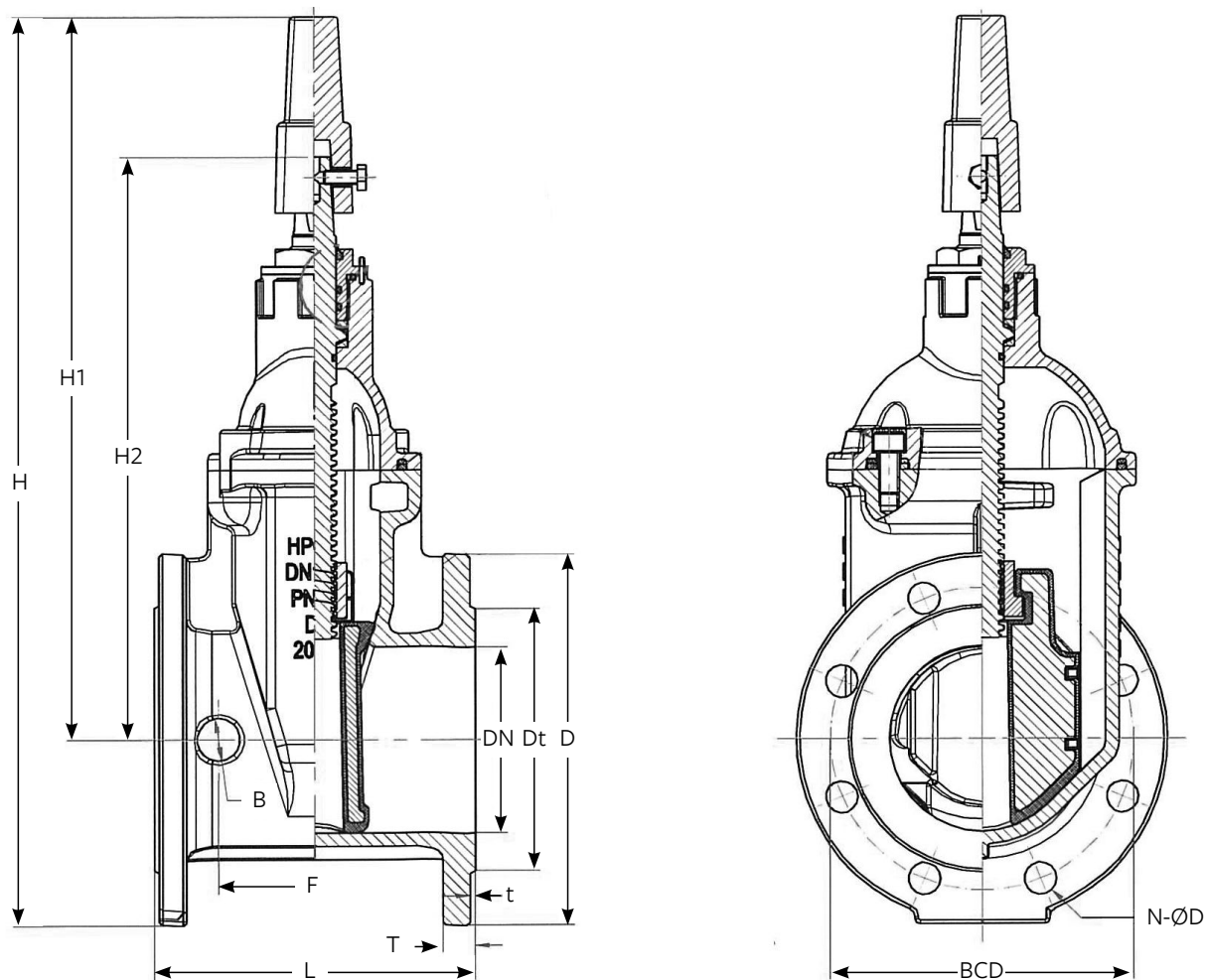
Part Drawing



ID	PART NAME	QTY.	MATERIAL	STANDARD
1	Body	1	EN-GJS-500-7 DI	EN1563:2011
2	Bonnet	1	EN-GJS-500-7 DI	EN1563:2011
3	Disc	1	EN-GJS-500-7 DI/EPDM	EN1563:2011
4	Stem Nut	1	CC331G AL BZ	EN1982:2008
5	Stem	1	1.4057 SS	EN10088-1:2005
6	Gasket	1	EPDM	WA, EN681-1:1996
7	Bonnet Bolt	4	304SS	GB/T 70.1-2008
8	Stem Cap	1	EN-GJS-500-7 DI	EN1563:2011
9	Gland Bushing	1	CW617N Brass	EN12164:2011
10	O-Ring	1	EPDM	WA, EN 681-1:1996
11	Cap Screw	1	304SS	GB/T 5783-2000
12	Thrust Collar	2	CW617N Brass	EN12164:2011
13	Groove Pin	1	316SS	-
14	Wiper Ring	1	EPDM	WA, EN681-1:1996
15	O-Ring	2	EPDM	-
16	O-Ring	1	EPDM	-

EN588-1 SERIES 14 RESILIENT WEDGE GATE VALVE

Dimensional Data

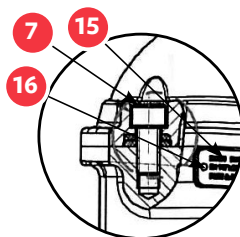
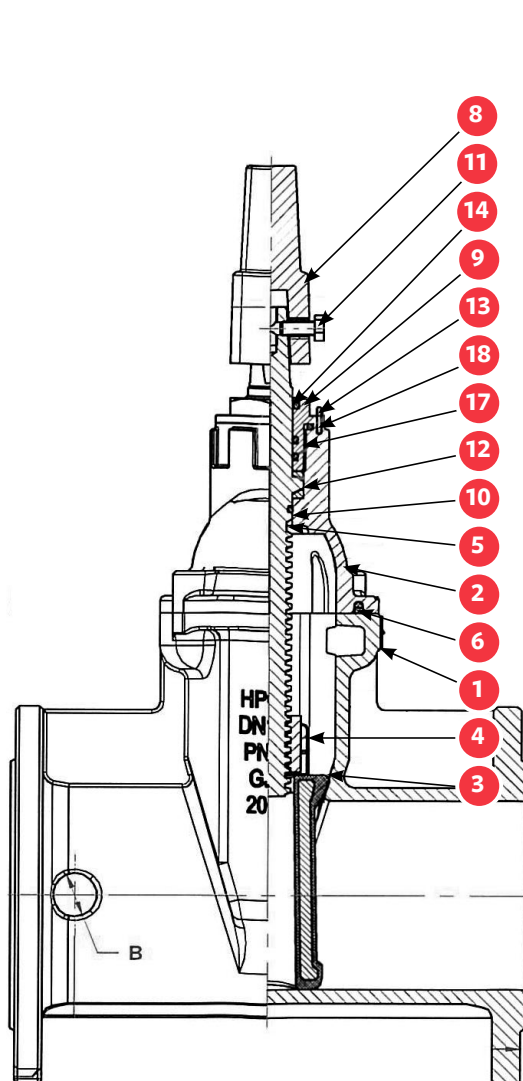


DN	PN	WT-KG	F	B	H2	H1	H	t	T	N-ØD	BCD	Dt	D	L	URNS TO CLOSE
50	PN16	12	102	25	263	346	429	3	19	4-Ø19	125	99	165	150	7
65	PN16	15	98	38	293	376	469	3	19	4-Ø19	145	118	185	170	9
80	PN16	18	111	38	323	406	506	3	19	4-Ø19	160	132	200	180	12
100	PN16	21	153	25	347	430	540	3	19	8-Ø19	180	155	220	190	14
125	PN16	34	100	38	421	494	619	3	19	8-Ø19	210	183	250	200	15
150	PN16	37	167	38	440	525	667	3	19	8-Ø23	240	211	285	210	17
200	PN10	61	192	45	520	605	775	3	20	12-Ø23	295	264	340	230	18
200	PN16	61	192	45	520	605	775	3	20	12-Ø23	295	264	340	230	18
250	PN10	98	213	54	616	712	914	3	22	12-Ø28	350	319	405	250	22
250	PN16	98	213	54	616	712	914	3	22	12-Ø28	355	319	405	250	22
300	PN10	144	239	54	707	803	1031	4	25	12-Ø28	400	367	460	270	25
300	PN16	144	239	54	707	803	1031	4	25	12-Ø28	410	367	460	270	25

Standard Clockwise-Close (Open-Left). Anticlockwise-Close available to special order.

EN588-1 SERIES 15 RESILIENT WEDGE GATE VALVE

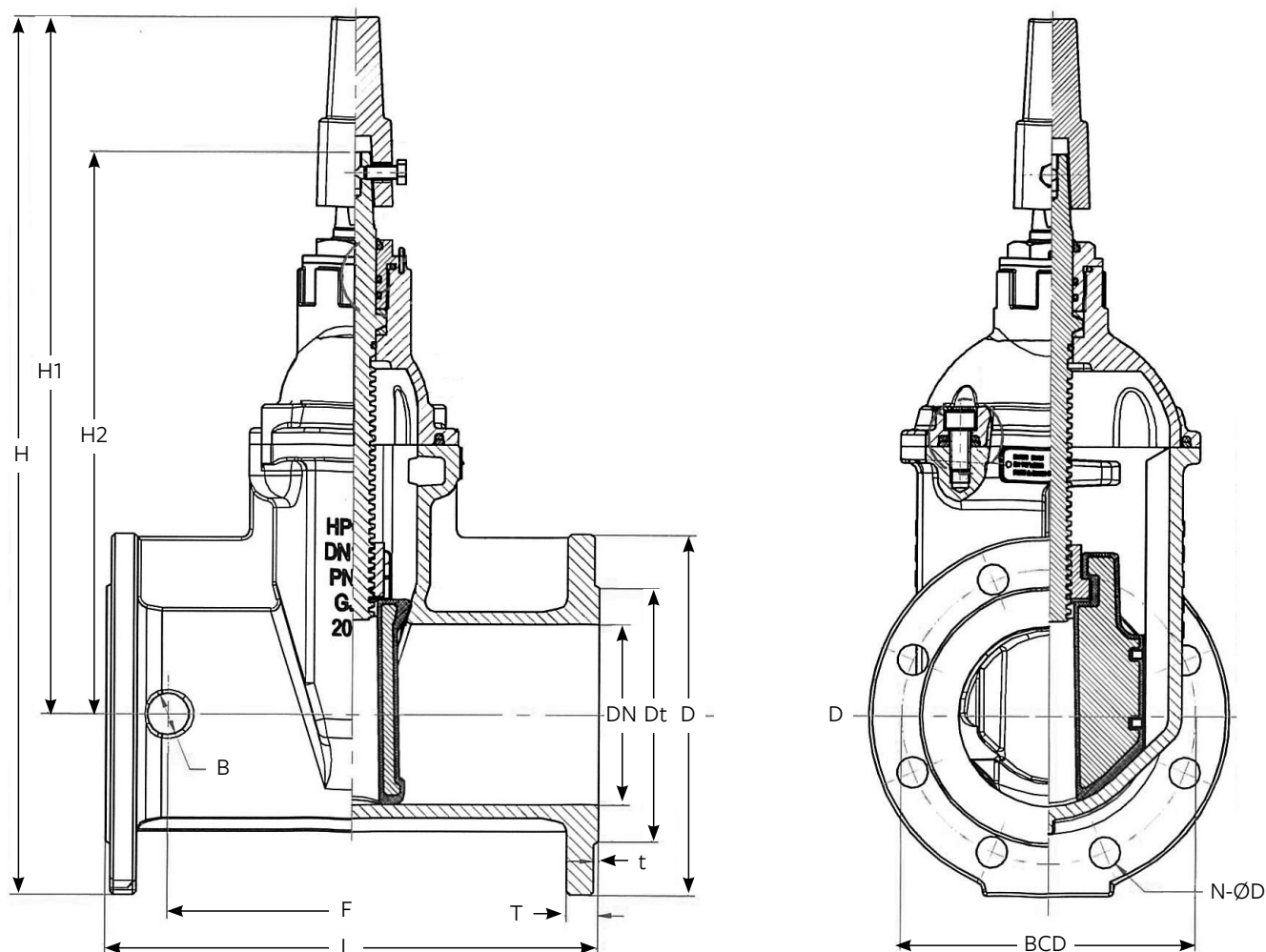
Part Drawing



ID	PART NAME	QTY.	MATERIAL	STANDARD
1	Body	1	EN-GJS-500-7 DI	EN1563:2011
2	Bonnet	1	EN-GJS-500-7 DI	EN1563:2011
3	Disc	1	EN-GJS-500-7 DI / EPDM	EN1563:2011
4	Stem Nut	1	CC331G AL BZ	EN1982:2008
5	Stem	1	1.4057 SS	EN10088-1:2005
6	Gasket	1	EPDM	WA, EN681-1:1996
7	Bonnet Bolt	4	304SS	GB / T 70.1-2008
8	Stem Cap	1	EN-GJS-500-7 DI	EN1563:2011
9	Gland Bushing	1	CW617N Brass	EN12164:2011
10	O-Ring	1	EPDM	WA, EN 681-1:1996
11	Cap Screw	1	304SS	GB / T 5783-2000
12	Thrust Collar	2	CW617N Brass	EN12164:2011
13	Groove Pin	1	316SS	-
14	Wiper Ring	1	EPDM	WA, EN681-1:1996
15	O-Ring	2	EPDM	-
16	O-Ring	1	EPDM	-

EN588-1 SERIES 15 RESILIENT WEDGE GATE VALVE

Dimensional Data



DN	PN	WT.-KG	F	B	H2	H1	H	t	T	N-ØD	BCD	Dt	D	L	TURNS TO CLOSE
50	PN16	15	174	25	263	346	429	3	19	4-Ø19	125	99	165	250	7
65	PN16	18	178	38	293	376	469	3	19	4-Ø19	145	118	185	270	9
80	PN16	19	188	38	323	406	506	3	19	4-Ø19	160	132	200	280	12
100	PN16	25	224	25	347	430	540	3	19	8-Ø19	180	155	220	300	14
125	PN16	35	225	38	421	494	619	3	19	8-Ø19	210	183	250	325	15
150	PN16	42	250	38	440	525	667	3	19	8-Ø23	240	211	285	350	17
200	PN10	64	300	45	520	605	775	3	20	12-Ø23	295	264	340	400	18
200	PN16	64	300	45	520	605	775	3	20	12-Ø23	295	264	340	400	18
250	PN10	119	338	54	616	712	914	3	22	12-Ø28	350	319	405	450	22
250	PN16	119	338	54	616	712	914	3	22	12-Ø28	355	319	405	450	22
300	PN10	174	388	54	707	803	1031	4	25	12-Ø28	400	367	460	500	25
300	PN16	174	388	54	707	803	1031	4	25	12-Ø28	410	367	460	500	25

Standard Clockwise-Close (Open-Left). Anticlockwise-Close available to special order.

NOTES

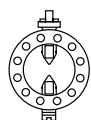
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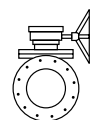
PRATT® Product Guide



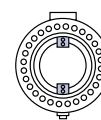
MODEL 2FII



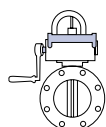
MONOFLANGE MKII



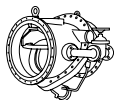
PLUG VALVES



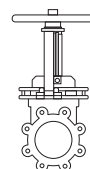
TRITON® XR70



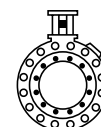
INDICATING BUTTERFLY
VALVES UL & FM APPROVED



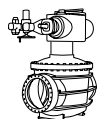
TILTING DISC
CHECK VALVES



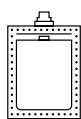
KNIFE GATE VALVES



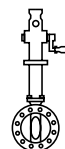
N-STAMP NUCLEAR
BUTTERFLY VALVES



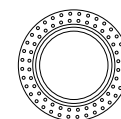
CONE VALVES



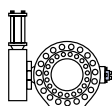
RECTANGULAR



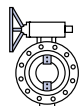
PIVA POST INDICATING VALVES
ASSEMBLY UL & FM APPROVED



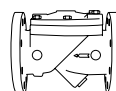
SLEEVE VALVES



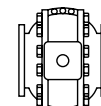
RUBBER SEATED
BALL VALVES



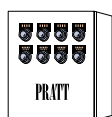
TRITON® 250



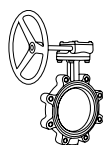
CHECK VALVES



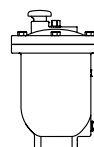
METAL SEATED
BALL VALVE



CONTROL SYSTEMS



INDUSTRIAL VALVES



AIR VALVES

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