

AWWA C515 NRS Resilient Seated Gate Valve Thread Ends

SPECIFICATIONS

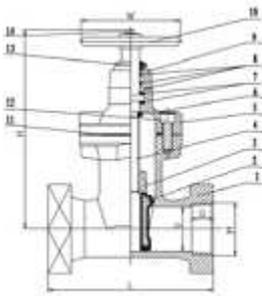
Design Standard AWWA C515
Threaded ends standard: ANSI B1.20.1
(Other Flange Types available upon request)
Triple O-Rings stem seal
Lifting lugs built into stuffing gland
Fusion Bonded Epoxy Coating to AWWA C550 Standard
Inspection & testing: AWWA C515

Working Pressure: 250PSI
(200 and 300 PSI available on request)
Working Temperature: -20°C to 100°C (-4°F to 212°F)
Operator: Handwheel, 2" Operating Nut, Gearbox



MATERIAL LIST

No.	Part	Material(ASTM)
1	Body	Ductile Iron ASTM A536
2	Wedge	Ductile Iron EPDM/NBR Encapsulated
3	Wedge Nut	Brass ASTM B124 C37700
4	Stem	Stainless Steel AISI 420
5	Bonnet	Ductile Iron ASTM A536
6	Wedge Nut Gasket	Rubber NBR
7	Washers	Nylon/Brass ASTM B124 C37700
8	O-ring	Rubber NBR
9	Gland	Ductile Iron ASTM A536
10	Handwheel	Ductile Iron ASTM A536
11	Bonnet Gasket	Rubber NBR
12	Bonnet/Gland Bolt	Grand 8 Steel With ZINC Plated
13	Dust Cap	Rubber NBR
14	Handwheel Bolts	Stainless Steel AISI304



DIMENSIONS

inch	L	M(NPT)	H	Q	W	V
1.5	6.5	1.5"	9.05	0.94	6.3	1.97
2"	7.24	2"	9.84	0.79	7.08	1.57
2.5"	7.48	2.5"	10.39	1.14	7.08	2.56
3"	7.99	3"	11.22	1.22	7.87	3.15
4"	9.01	4"	14.17	1.30	9.84	3.94
6"	10.51	6"	17.28	1.51	9.84	5.90

AWWA C515 NRS Resilient Seated Gate Valve, Mechanical Joint

SPECIFICATIONS

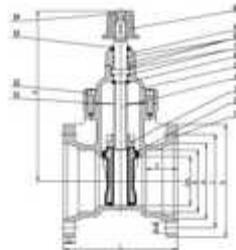
Design Standard AWWA C515.
Non-Rising stem, Resilient Seated
Face to Face: ASME B16.10
M1*MJ to AWWA C111/A21.11-12
(FL*MJ available upon request)
Inspection & testing: AWWA C515
Fusion Bonded Epoxy Coated Interior and Exterior to
AWWA C550 Standard

Working Pressure: 250PSI
(200 and 300 PSI available on request)
Working Temperature: -20°C to 100°C (-4°F to 212°F)
Operator: Handwheel, 2" Operating Nut, Gearbox



MATERIAL LIST

NO.	Part	Material(ASTM)
1	Body	Ductile Iron ASTM A536
2	Wedge	Ductile Iron EPDM/NBR Encapsulated
3	Wedge Nut	Brass ASTM B124 C37700
4	Stem	Stainless Steel AISI 420
5	Bonnet	Ductile Iron ASTM A536
6	Wedge Nut Gasket	Rubber NBR
7	Washers	Nylon/Brass ASTM B124 C37700
8	O-ring	Rubber NBR
9	Gland	Ductile Iron ASTM A536
10	Operating Nut	Ductile Iron ASTM A536
11	Bonnet Gasket	Rubber NBR
12	Bonnet/Gland Bolt	CS With ZINC Plated/SS304
13	Dust Cap	Rubber NBR
14	Top Bolts	CS With ZINC Plated/SS304



DIMENSIONS AWWA C111/A21.11-12 C515-09(b)

inch	L	H	C	D	n-d	A	E	B									
2"	8.27	262	10.31	120.5	4.74	157.2	6.19	16	0.63	2-19	2-0.75	90	3.54	63.5	2.50	67.5	2.66
3"	7.99	283	11.14	157.2	6.19	195	7.68	19.1	0.75	4-19	4-0.75	125.5	4.94	63.5	2.50	103.5	4.07
4"	9.02	351	13.80	190.5	7.50	231	9.09	19.1	0.75	4-22.3	4-0.88	153	6.02	63.5	2.50	124.5	4.90
6"	10.51	453	17.83	241.3	9.50	282	11.10	19.1	0.75	6-22.3	6-0.88	206.5	8.13	63.5	2.50	178	7.01
8"	11.50	559	22.01	296.5	11.75	340	13.39	22.0	0.87	6-22.3	6-0.88	261	10.28	63.5	2.50	232.5	9.15
10"	12.99	668	26.90	356.6	14.00	397	15.63	23.0	0.94	8-22.3	8-0.88	313.5	12.34	63.5	2.50	284.5	11.20
12"	14.02	753	29.65	413	16.26	454	17.87	25.4	1.00	8-22.3	8-0.88	367	14.45	63.5	2.50	338	13.31
14"	15.00	918	36.14	476.3	18.75	523	20.59	25.4	1.00	10-22.3	10-0.88	420.5	16.56	88.9	3.50	392.5	15.45
16"	16.06	1595	38.39	533.4	21.00	580	22.83	25.4	1.00	12-22.3	12-0.88	474	18.66	88.9	3.50	445.7	17.55
18"	17.01	1067	42.01	590.6	23.25	638	25.12	25.4	1.00	12-22.3	12-0.88	527	20.75	88.9	3.50	499	19.65
20"	17.99	1199	47.20	647.7	25.50	695	27.36	28.6	1.13	14-22.3	14-0.88	580.5	22.85	88.9	3.50	552.5	21.75
24"	20.00	1363	53.66	762	30.00	810	31.89	30.1	1.19	16-22.3	16-0.88	687	27.05	88.9	3.50	659	25.94

AWWA C515 NRS Resilient Seated Gate Valve, Flanged Ends

SPECIFICATIONS

Design Standard AWWA C515.
Non-Rising stem, Resilient Seated
Face to Face: ASME B16.10,
Flanges Standard: AWWA C110/A21.10,
ASME B16.1 AWWA C515
(Other Flange Types available upon request)
Inspection & testing: AWWA C515.

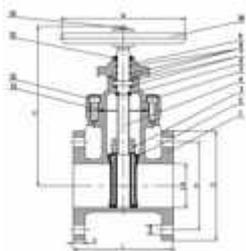
Fusion Bonded Epoxy Coated Interior and
Exterior to AWWA C550 Standard

Working Pressure: 250PSI
(200 and 300 PSI available on request)
Working Temperature: -20°C to 100°C (-4°F to 212°F)
Operator: Handwheel, 2" Operating Nut, Gearbox



MATERIAL LIST

NO.	Part	Material(ASTM)
1	Body	Ductile Iron ASTM A536
2	Wedge	Ductile Iron EPDM/NBR Encapsulated
3	Wedge Nut	Brass ASTM B124 C37700
4	Stem	Stainless Steel AISI 420
5	Bonnet	Ductile Iron ASTM A536
6	Wedge Nut Gasket	Rubber NBR
7	Washers	Nylon/Brass ASTM B124 C37700
8	O-ring	Rubber NBR
9	Gland	Ductile Iron ASTM A536
10	Handwheel	Ductile Iron ASTM A536
11	Bonnet Gasket	Rubber NBR
12	Bonnet/Gland Bolt	Grand 8 Steel With ZINC Plated
13	Dust Cap	Rubber NBR
14	Handwheel Bolts	Stainless Steel AISI304



DIMENSIONS(mm/inch)

in	mm	L	H	M	D	W	n-d	b						
2"	178	7	245	9.64	120.5	4.74	152	5.98	180	7.08	4-19	4-0.75	16	0.63
2.5"	190	7.48	258	10.15	139.5	5.49	178	7	180	7.08	4-19	4-0.75	18	0.7
3"	203	7.99	275	10.82	152.5	6	191	7.51	200	7.87	4-19	4-0.75	19.1	0.75
4"	229	9.01	333	13.11	190.5	7.5	229	9	250	9.84	8-19	8-0.75	19.1	0.75
5"	254	10	410	16.14	216	8.5	254	10	280	11.02	8-22	8-0.88	19.1	0.75
6"	267	10.51	453	17.83	241.5	9.5	279	10.98	300	11.81	8-22	8-0.88	19.1	0.75
8"	292	11.49	532	20.94	298.5	11.75	343	13.5	350	13.77	8-22	8-0.88	22.2	0.87
10"	330	12.99	646	25.43	362	14.25	406	15.98	400	15.74	12-25	12-0.98	23.8	0.93
12"	356	14.01	733	28.85	432	17	483	19.01	500	19.68	12-25	12-0.98	25.4	1
14"	381	15	908	35.74	476	18.74	533	20.98	600	23.62	12-29	12-1.14	25.4	1
16"	406	15.98	965	37.99	539.5	21.24	597	23.5	600	23.62	16-29	16-1.14	25.4	1
18"	432	17	1057	41.61	578	22.75	635	25	750	27.55	16-32	16-1.25	28.6	1.12
20"	457	17.99	1190	46.85	635	25	699	27.51	750	27.55	20-32	20-1.25	28.6	1.12
24"	508	20	1363	53.66	749.5	29.5	813	32	750	27.55	20-35	20-1.37	30.1	1.18

AWWA C515 OS&Y Resilient Seated Gate Valve, Flanged Ends

SPECIFICATIONS

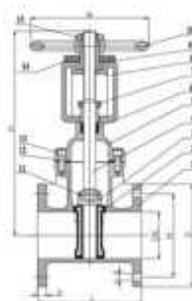
Design Standard AWWA C515.
Face to Face: ASME B16.10,
Flanges Standard: AWWA C110/A21.10, ASME B16.1 AWWA C515
(Other Flange Types available upon request)
Fusion Bonded Epoxy Coated to AWWA C550 Standard
Inspection & testing: AWWA C515.

Working Pressure: 250PSI
(200 and 300 PSI available on request)
Working Temperature: -20°C to 100°C (-4°F to 212°F)
Operator: Handwheel, Gearbox



MATERIAL LIST

NO.	Part	Material(ASTM)
1	Body	Ductile Iron ASTM A536
2	Wedge	Ductile Iron EPDM/NBR Encapsulated
3	Wedge Nut	Brass ASTM B124 C37700
4	Stem	Stainless Steel AISI 420
5	Bonnet	Ductile Iron ASTM A536
6	Packing	Flexinle Graphite
7	Gland	Ductile Iron ASTM A536
8	Yoke	Ductile Iron ASTM A536
9	Stem Nut	Brass ASTM B124 C37700
10	Handwheel	Ductile Iron ASTM A536
11	PIN	Stainless Steel
12	Bonnet Gasket	Rubber NBR
13	Bonnet/Gland Bolt	CS With ZINC Plated/SS304
14	Yoke Gland	Ductile Iron ASTM A536
15	Handwheel Bolts	Ductile Iron ASTM A536



DIMENSIONS: AWWA C515

inch	H	L	D	M	b	W	n-d							
2"	354	13.94	178	7	152	5.98	120.5	4.74	16	0.63	200	7.87	4-19	4-0.75
2.5"	421	16.57	190	7.48	178	7	139.5	5.49	18	0.71	200	7.87	4-19	4-0.75
3"	480	18.90	203	7.99	191	7.52	152.5	6	19.1	0.75	250	9.84	4-19	4-0.75
4"	455	17.91	229	9.02	229	9.02	190.5	7.5	19.1	0.75	280	11.02	8-19	8-0.75
5"	530	20.87	254	10	254	10	216	8.50	19.1	0.75	280	11.02	8-22	8-0.87
6"	640	25.20	267	10.51	279	10.98	241.3	9.5	19.1	0.75	350	13.78	8-22	8-0.87
8"	798	31.42	292	11.50	343	13.50	298.5	11.75	22.2	0.87	400	15.75	8-22	8-0.87
10"	957	37.68	330	12.99	406	15.98	362	14.25	23.8	0.94	450	17.72	12-25	12-0.98
12"	1088	42.83	356	14.02	483	19.02	432	17	25.4	1	540	21.26	12-25	12-0.98
14"	1259	50.91	381	15	533	20.98	476	18.74	25.4	1	600	23.62	12-29	12-1.14
16"	1405	55.31	406	15.98	597	23.50	539.5	21.24	25.4	1	600	23.62	16-29	16-1.14
18"	1552	61.10	432	17	635	25	578	22.75	25.4	1	600	23.62	16-32	16-1.26
20"	1700	66.93	457	17.99	699	27.52	635	25	28.6	1.13	750	29.53	20-32	20-1.26
24"	1983	78.07	508	20	813	32	749.5	29.5	30.1	1.19	750	29.53	20-35	20-1.38

AWWA Resilient Seated Gate Valve, Push-on Ends

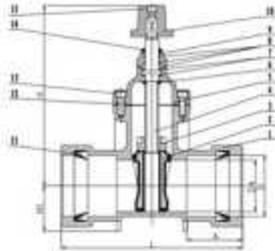
SPECIFICATIONS

Design Standard AWWA C515
 Non-Rising stem, Resilient Seated
 Push on ends: Fitted with NBR/EPDM Rubber seals to C111 standard
 (Other Flange Types available upon request)
 Fusion Bonded Epoxy Coated Interior and Exterior to AWWA C550 Standard
 Inspection & testing: AWWA C515
 Working Pressure: 250PSI
 (200 and 300 PSI available on request)
 Working Temperature: -20°C to 100°C (-4°F to 212°F)
 Operator: Handwheel, 2" Operating Nut, Gearbox



MATERIAL LIST

No	Part	Material(ASTM)
1	Body	Ductile Iron ASTM A536
2	Wedge	Ductile Iron EPDM/NBR Encapsulated
3	Wedge Nut	Brass ASTM B124 C37700
4	Stem	Stainless Steel AISI 420
5	Bonnet	Ductile Iron ASTM A536
6	Wedge Nut Gasket	Rubber NBR
7	Washers	Nylon/Brass ASTM B124 C37700
8	O-ring	Rubber NBR
9	Gland	Ductile Iron ASTM A536
10	Operating Nut	Ductile Iron ASTM A536
11	Rubber Ring	EPDM/NBR
12	Bonnet Gasket	Rubber NBR
13	Bonnet/Gland Bolt	Grade 8 Steel With ZINC Plated
14	Dust Cap	Rubber NBR
15	Top Bolts	Stainless Steel AISI304



DIMENSIONS(mm)

inch	mm	L	inch	mm	H	inch	mm	H1	inch	mm	D	inch	mm	A	inch
2"	260	10.24	305	12	55	2.16	62.5	2.46	88.5	3.48					
2.5"	273	10.75	315	12.40	68	2.67	75.7	2.97	90	3.54					
3"	305	12	346	13.62	72	2.83	92	3.62	102	4.01					
4"	348	13.70	395	15.55	88	3.46	118.5	4.67	107	4.21					
6"	428	16.85	520	20.47	123	4.84	173	6.81	140	5.51					
8"	470	18.50	595	23.43	150	5.90	223	8.78	155	6.10					
10"	540	21.26	720	28.35	185	7.28	277	10.90	170	6.69					
12"	672	26.46	797	31.38	210	8.27	328	12.91	230	9.06					

NRS Resilient Seated Gate Valve Flanged Ends PN10/16 BS5163 DINF4/F5

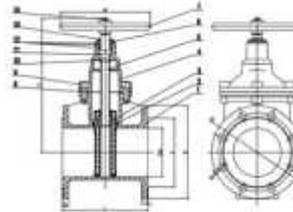
SPECIFICATIONS

Face To Face Standard: EN558,
 (DIN3202 F4/F5, BS5163, SABS664/665)
 Design Standard: BS EN1171/EN1074-2
 Flanges Standard: BS EN1092-2
 Inspection & testing: BS EN 12266-1
 (Other Flange Types available upon request)
 (ISO Top Flange, Indicator available on request)
 Fusion Bonded Epoxy Powder Coated Interior and Exterior to EN14901
 Working Pressure: 16bar
 Working Temperature: -20°C to 100°C
 Operator: Handwheel, Operating Nut, Gearbox, Extension Spindle



MATERIAL LIST

No	Part	Material
1	Body	Ductile Iron
2	Wedge	DI & EPDM
3	Wedge Nut	Brass
4	Bonnet	Ductile Iron
5	Stem	SS420
6	Gland	Brass
7	Handwheel	Ductile Iron
8	Bonnet Gasket	NBR/EPDM
9	Bonnet/Gasket Bolt	CS With ZINC Plated/SS304
10	Wedge Nut Gasket	NBR/EPDM
11	Washers	Nylon/Brass
12	O-ring	NBR/EPDM
13	Dust Cap	NBR/EPDM
14	Handwheel Bolts	SS304



DIMENSIONS(mm) BS EN1092-2 PN10/16

DN	F4	F5	L	BSS163/665	664	H	D	C	PN10	PN16	M	b	f	W	ind
40	140	240	165			205	150	84	84	110	110	19	3	160	4-19 4-19
50	150	250	178	216		258	165	99	99	125	125	19	3	160	4-19 4-19
65	170	270	190		262	185	118	118	118	145	145	19	3	160	8-19 4-19
80	180	280	203	229		205	200	132	132	160	160	19	3	200	8-19 8-19
100	190	300	229	254		350	220	156	156	180	180	19	3	250	8-19 8-19
125	200	325	254			364	250	184	184	210	210	19	3	280	8-19 8-19
150	210	350	267	280		436	285	211	211	240	240	19	3	300	8-23 8-23
200	230	400	292	317		535	340	266	266	295	295	20	3	350	8-23 12-23
250	250	450	330	356		634	405	319	319	350	355	22	3	400	12-23 12-28
300	270	500	356	380		721	460	370	370	400	410	24.5	4	480	12-23 12-28
350	280	550	381	470		783	520	429	429	460	470	26.5	4	560	16-23 16-28
400	310	600	406	470		902	580	480	480	515	525	28	4	560	16-28 16-31
450	330	650	432	485		980	640	530	548	565	585	30	4	750	20-28 20-31
500	350	700	457	510		1092	715	582	609	620	650	31.5	4	750	20-28 20-34
600	390	800	508	600		1275	840	682	720	725	770	36	5	750	20-31 20-37
700	430	900	610			1513	910	794	794	840	840	39.5	5	950	24-31 24-37
800	470	1000	660			1663	1025	901	901	950	950	43	5	950	24-34 24-41
900	510	1100	711			1817	1125	1001	1001	1050	1050	46.5	5	1050	28-34 28-41
1000	550	1200	811			2050	1255	1112	1112	1160	1170	50	5	1050	28-37 28-44

NRS Resilient Seated Gate Valve Grooved Ends

SPECIFICATIONS

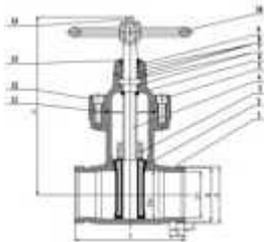
Design Standard AWWA C515.
 Face to Face: ASME B16.10.
 Non-Rising stem, Resilient Seated.
 Fusion Bonded Epoxy Coated Interior and Exterior to AWWA C550 Standard.
 Inspection & testing: AWWA C515.

Working Pressure: 250PSI.
 (200 and 300 PSI available on request)
 Working Temperature: -20°C to 100°C (-4°F to 212°F)
 Operator: Handwheel, 2" Operating Nut, Gearbox



MATERIAL LIST

NO.	Part	Material(ASTM)
1	Body	Ductile Iron ASTM A536
2	Wedge	Ductile Iron EPDM/NBR Encapsulated
3	Wedge Nut	Brass ASTM B124 C37700
4	Stem	Stainless Steel AISI 420
5	Bonnet	Ductile Iron ASTM A536
6	Wedge Nut Gasket	Rubber NBR
7	Washers	Nylon/Brass ASTM B124 C37700
8	O-ring	Rubber NBR
9	Gland	Ductile Iron ASTM A536
10	Handwheel	Ductile Iron ASTM A536
11	Bonnet Gasket	Rubber NBR
12	Bonnet/Gland Bolt	CS With ZINC Plated/SS304
13	Dust Cap	Rubber NBR
14	Handwheel Bolts	CS With ZINC Plated/SS304



DIMENSIONS

inch	D1	F	H	C	A	B	G
2"	45	178	270	16	60.3	56.8	24.8
3"	72	203	310	16	88.9	84.5	24.8
4"	97	229	350	16	114.3	109.6	26.3
6"	148	267	485	16	165.1	160.2	26.3
8"	198	292	520	16	219	213.8	31
10"	250	330	632	16	273	268.2	50

NRS Resilient Seated Gate Valve Plain Ends

SPECIFICATIONS

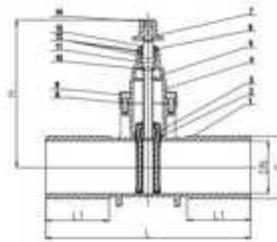
Design Standard: BS EN1171/EN1074-2
 Inspection & testing: BS EN 12266-1
 (Other Flange Types available upon request)
 Triple O-Rings stem seal

Working Pressure: 16bar
 Working Temperature: -20°C to 100°C
 Operator: Handwheel, Operating Nut, Gearbox



MATERIAL LIST

NO	Part	Material
1	Body	Ductile Iron
2	Wedge	DI & EPDM
3	Stem Nut	Brass
4	Bonnet	Ductile Iron
5	Stem	SS420
6	Gland	Brass
7	Operating Nut	Ductile Iron
8	Bonnet Gasket	NBR/EPDM
9	Bonnet/Gasket Bolt	CS With ZINC Plated/SS304
10	Wedge Nut Gasket	NBR/EPDM
11	Washers	Nylon/Brass
12	O-ring	NBR/EPDM
13	Dust Cap	NBR/EPDM
14	Operating Nut Bolts	SS304



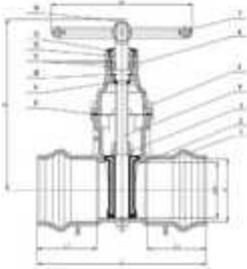
DIMENSIONS(mm)

DN	H	L	L1	T
50	270	265	76	63
80	310	305	96	96
100	350	350	105	114.3
150	482	428	115	168.2
200	520	470	137	219.1
250	632	490	131	273
300	744	510	129	328.8

NRS Resilient Seated Gate Valve Socket Ends

SPECIFICATIONS

Design Standard: BS EN1171/EN1074-2, SABS 664
 Socket ends: Fitted with NBR/EPDM
 Rubber seal to suit PVC-pipes
 Inspection & testing: BS EN 12266-1
 (Other Flange Types available upon request)
 Triple O-Rings stem seal
 Working Pressure: 16bar
 Working Temperature: -20°C to 100°C
 Operator: Handwheel, Operating Nut, Gearbox



MATERIAL LIST

NO	Part	Material
1	Body	Ductile Iron
2	Wedge	Ductile Iron & EPDM
3	Stem Nut	Brass
4	Stem	SS420
5	Bonnet	Ductile Iron
6	Gland	Brass
7	Handwheel	Ductile Iron
8	Bonnet Gasket	NBR/EPDM
9	Wedge Nut Gasket	NBR/EPDM
10	Washers	Nylon/Brass
11	O-ring	NBR/EPDM
12	Clr Clip	Carbon steel
13	Dust Cap	NBR/EPDM
14	Handwheel Bolts	SS304

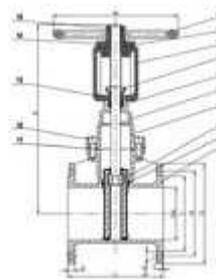
DIMENSIONS(mm)

DN	L	H	A	L1	W
50	250	225	66	90	180
65	270	249	78	95	180
80	280	272	93	100	200
100	300	300	113	105	250
150	390	406	163	145	300
200	420	482	203	155	350
250	480	600	253	175	400
300	490	680	318	175	500

OS&Y Resilient Seated Gate Valve PN10/16

SPECIFICATIONS

Face To Face Standard: EN 558, S3/S14/S15
 (BS5163, DIN3202), SABS 664/665
 Design Standard: BS EN1171/EN1074-2
 Flanges Standard: BS EN1092-2
 Inspection & testing: BS EN 12266-1
 (Other Flange Types available upon request)
 Triple O-Rings stem seal
 Working Pressure: 16bar
 Working Temperature: -20°C to 100°C
 Operator: Handwheel



MATERIAL LIST

ITEM	Part	Material
1	Body	Ductile Iron
2	Wedge	Ductile Iron & EPDM
3	Wedge Nut	Brass
4	Bonnet	Ductile Iron
5	Stem	SS420
6	Packing	Flexible graphite
7	Gland	Ductile Iron
8	Yoke	Brass
9	Stem Nut	Brass
10	Handwheel	Ductile Iron
11	Bonnet Gasket	NBR/EPDM
12	Bonnet /Gasket Bolt	CS With ZINC Plated/SS304
13	Regulating Sleeve	Ductile Iron
14	Gland	Ductile Iron
15	Nut	Ductile Iron

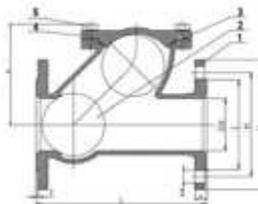
DIMENSIONS(mm) BS EN1092-2 PN16

DN	L		H	D	C	M	b	f	W	n-d		
	F4	F5										
50	150	250	178	216	312	165	99	125	19	3	160	4-19
65	170	270	190	229	330	185	118	145	19	3	160	4-19
80	180	280	203	229	390	200	132	160	19	3	250	8-19
100	190	300	223	254	450	220	156	180	19	3	280	8-19
125	200	325	254	280	522	250	184	210	19	3	280	8-19
150	210	350	267	280	598	285	211	240	19	3	350	8-23
200	230	400	292	317	770	340	266	295	20	3	400	12-23
250	250	450	330	356	890	405	319	355	22	3	450	12-28
300	270	500	356	380	1040	460	370	410	24.5	4	480	12-28
350	290	550	381	470	1165	520	429	470	26.5	4	580	16-28
400	310	600	406	470	1310	580	480	525	28	4	580	16-31
450	330	650	432	485	1505	640	548	585	30	4	600	20-31
500	350	700	457	510	1790	715	609	650	31.5	4	600	20-34
600	390	800	508	600	1910	840	720	770	36	5	600	20-37

Ball Check Valve Flanged Ends DIN BS AWWA

SPECIFICATIONS

Design Standard: BS EN1074-3/BS EN 12334
 AWWA C508
 Face to Face: EN558, S10/S48, ASME B16.10,
 (DIN3202 F6/BS5153)
 Flanges Standard: BS EN1092-2, ASME B16.1
 AWWA C508
 Inspection & testing: BS EN12266-1, AWWA C508
 Working Pressure: 16bar 250PSI
 working Temperature: -20°C to 100°C (4°F to 212°F)



MATERIAL LIST

ITEM	Part	Material
1	Body	Ductile Iron
2	Ball	2"-3" AL & EPDM 4"-24" DI & EPDM
3	Gasket	NBR
4	Bonnet	Ductile Iron
5	Bolts	Stainless Steel

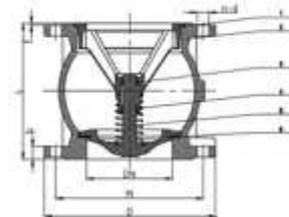
DIMENSIONS(mm) EN1092-2 PN16

DN	L			H	D		M			b	F	n-d	
	DIN F6	BS5153	AWWACS15		DIN BS	AWWA	DIN BS	AWWA	DIN BS			AWWA	
50	200	203	203	108	165	152	99	125	120.5	19	3	4-19	4-19
65	240	216	216	132	185	178	118	145	139.5	19	3	4-19	4-19
80	260	241	241	151	200	191	132	160	152.5	19	3	8-19	4-19
100	300	292	292	198	220	229	156	180	190.5	19	3	8-19	8-19
125	350	330	330	210	250	184	210	19	3	8-19			
150	400	356	356	270	285	279	211	240	241.5	19	3	8-23	8-22
200	500	495	495	368	340	343	266	295	298.5	20	3	12-23	8-22
250	600	622	622	471	405	406	319	355	362	22	3	12-28	12-25
300	700	698	698	531	460	483	370	410	432	24.5	4	12-28	12-25
350	800	787	787	613	520	533	429	470	476	26.5	4	16-28	12-29
400	900	914	914	690	580	597	480	525	539.5	28	4	16-31	16-29
450	1000	978	1016	790	640	635	548	585	578	30	4	20-31	16-32
500	1100	978	1016	882	715	699	609	650	635	31.5	4	20-34	20-32
600	1300	1295	1210	1050	840	813	720	770	749.5	36	4	20-37	20-35

Silent Check Valve Flanged Ends PN16

SPECIFICATIONS

Design Standard: BS EN12334
 Flanges Standard: BS EN 1092-2
 Inspection & testing: BS EN 12266-1
 Working Pressure: 16bar
 Working Temperature: -20°C To 100°C



MATERIAL LIST

NO	Part	Material
1	Guide	Ductile Iron
2	Body	Ductile Iron
3	Guiding Stem	F4
4	Spring	SS316
5	Disc	Ductile Iron
6	Seal	NBR/EPDM

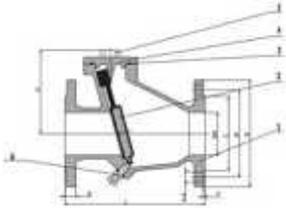
DIMENSIONS(mm) EN1092-2 PN16

DN	L	D	M	b	F	n-d
50	100	165	125	19	3	4-19
65	120	185	145	19	3	4-19
80	140	200	160	19	3	8-19
100	170	220	180	19	3	8-19
125	200	250	210	19	3	8-19
150	230	285	240	19	3	8-23
200	301	340	295	20	3	12-23
250	370	405	355	22	3	12-28
300	410	460	410	24.5	4	12-28

Swing Check Valve

SPECIFICATIONS

Design Standard: BS EN1074-3/BS EN12334
AWWA C508.
Face to Face Standard: EN558. S10/S48. ASME B16.10.
(DIN3202 F6/BS5153)
Flanges Standard: BS EN1092-2. ASME B16.1
AWWA C508
Inspection & testing: BS EN12266-1. AWWA C508.
Working Pressure: 16bar 250PSI
working Temperature: -20°C to 100°C (4°F to 212°F)



MATERIAL LIST

ITEM	Part	Material
1	Body	Ductile Iron
2	Flap	DI & EPDM
3	Gasket	NBR
4	Bonnet	Ductile Iron
5	Bolts	Stainless Steel
6	Bolts	Stainless Steel

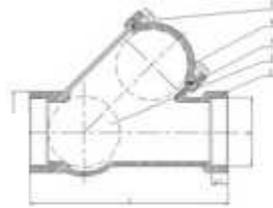
DIMENSIONS(mm) EN1092-2 PN16

DN	L			H	D		C	M		b	F	n-d		
	DIN F6	BS5153	AWWAC515		DIN BS	AWWA		DIN BS	AWWA			DIN BS	AWWA	
50	200	203	203	120	165	152	99	125	120.5	19	3	4-19	4-19	
65	240	216	216	140	185	178	118	145	139.5	19	3	4-19	4-19	
80	260	241	241	168	200	191	132	160	152.5	19	3	8-19	4-19	
100	300	292	292	185	220	229	156	180	190.5	19	3	8-19	8-19	
125	350	330	330	225	250	250	184	210	210	19	3	8-19	8-19	
150	400	356	356	269	285	279	211	240	241.5	19	3	8-23	8-23	
200	500	495	495	312	340	343	266	295	298.5	20	3	12-23	8-23	
250	600	622	622	328	405	406	319	355	362	22	3	12-28	12-25	
300	700	698	698	377	460	483	370	410	432	24.5	4	12-28	12-25	
350	800	787	787	459	520	533	429	470	476	26.5	4	16-28	12-29	
400	900	914	914	437	580	597	480	525	539.5	28	4	16-31	16-29	

Ball Check Valve Thread Ends

SPECIFICATIONS

Design Standard: BS EN1074-3/BS EN 12334
Inspection & testing: BS EN12266-1
Working Pressure: 16bar
working Temperature: -20°C to 100°C



MATERIAL LIST

ITEM	Part	Material
1	Body	Ductile Iron
2	Ball	AL& EPDM/DI & EPDM
3	Gasket	NBR/EPDM
4	Bonnet	Ductile Iron
5	Bolts	Stainless Steel

DIMENSIONS

DN	L	G	L1
25	140	1"	19.1
32	140	1.25"	21.4
40	145	1.5"	21.4
50	170	2"	25.7
65	210	2.5"	30.2
80	240	3"	33.3

OKVAL

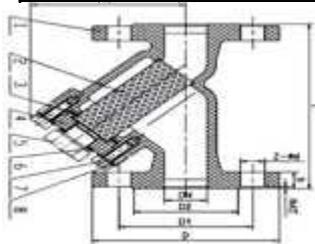
DIN Y TYPE STRAINER

Fig.new

Materials and Features



ITEM	ARTS NAM	MATERIAL
1	BODY	CAST IRON
2	SCREEN	STAINLESS STEEL
3	GASKET	GRAPHITE
4	BONNET	CAST IRON
5	PLUG GASKET	GGG40 GRAPHITE
6	BOLT GASKET	CARBON STEEL
7	BOLT	CARBON STEEL
8	GASKET	CARBON STEEL



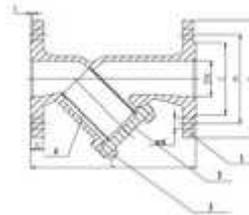
Dimensions (mm)

DN	L	D	D1	D2	b	Z-φd	f	H	KG
25	160	115	85	68	16	4-14	2	100	4
32	180	140	100	78	18	4-18	2	118	6
40	200	150	110	88	18	4-18	3	128	7
50	230	165	125	102	20	4-18	3	147	11.8
65	290	185	145	122	20	4-18	3	168	16.45
80	310	200	160	138	22	8-18	3	195	19
100	350	220	180	158	24	8-18	3	224	24.9
125	400	250	210	188	26	8-18	3	255	35.6
150	480	285	240	212	26	8-23	3	300	51.9
200	600	340	295	268	30	12-23	3	370	92.3
250	730	405	355	320	32	12-27	3	435	142
300	850	460	410	378	32	12-27	4	502	210

Y-Strainer

SPECIFICATIONS

Face to Face: EN558. S1.
Flanges Standard: BS EN 1092-2.
Inspection & testing: BS EN 12266-1
Working Pressure: 16bar
Working Temperature: -20°C To 100°C



MATERIAL LIST

NO	Part	Material
1	Body	Ductile Iron
2	Bonnet	Ductile Iron
3	Filter Screen	SS304/316
4	Bolts	Stainless Steel

DIMENSIONS(mm) EN1092-2 PN16

DN	L	C	M	D	b	F	n-d
50	230	99	125	165	19	3	4-19
65	290	118	145	185	19	3	4-19
80	310	132	160	200	19	3	8-19
100	350	156	180	220	19	3	8-19
125	400	184	210	250	19	3	8-19
150	483	211	240	285	19	3	8-23
200	600	266	295	340	20	3	12-23
250	730	319	355	405	22	3	12-28
300	850	370	410	460	24.5	4	12-28

NRS Resilient Seated Gate Valve Thread Ends

SPECIFICATIONS

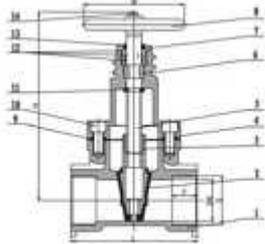
Design Standard: BS EN 1074-2
Thread Standard: ISO 7-1
Inspection & testing: BS EN 12266-1.
(Other Thread Types available upon request)

Working Pressure: 16bar
Working Temperature: -20°C To 100°C



MATERIAL LIST

No	Part	Material
1	Body	Ductile Iron
2	Wedge	Ductile Iron & EPDM
3	Stem Nut	Brass
4	Bonnet	Ductile Iron
5	Stem	SS420
6	Thrust Collar	Brass
7	Gland	Brass
8	Handwheel	Ductile Iron
9	Bonnet Gasket	NBR
10	Bonnet/Gasket Bolt	CS With ZINC Plated / SS304
11	Wedge Nut Gasket	NBR/EPDM
12	O-ring	NBR
13	Dust Cap	NBR
14	Handwheel Bolts	SS304



DIMENSIONS(mm)

DN	L	H	G	F	W
20	122	163	0.75"	26	150
25	127	172	1"	26	150
32	127	181	1.25"	26	150
40	154	211	1.5"	27	150
50	154	225	2"	31	150

NRS Resilient Seated Gate Valve Thread Angle Ends

SPECIFICATIONS

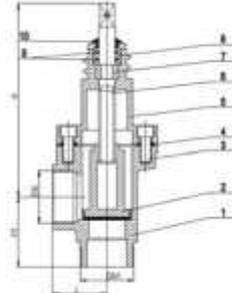
Design Standard: BS EN 1074-2
Thread Standard: ISO 7-1
Inspection & testing: BS EN 12266-1

Working Pressure: 16bar
Working Temperature: -20°C To 100°C



MATERIAL LIST

NO	Part	Material
1	Body	Ductile Iron
2	Gate	Brass & EPDM
3	Bonnet Bolt	CS With ZINC Plated/SS304
4	Bonnet Gasket	NBR
5	Bonnet	Ductile Iron
6	Stem	SS420
7	Thrust Collar	Brass
8	Gland	Brass
9	O-ring	NBR
10	Dust Cap	NBR



DIMENSIONS(mm)

DN	H	H1	DN1	L
1"	195	65	1"	47
1"	195	65	1-1/4"	47
1-1/4"	195	65	1-1/4"	60
1-1/2"	228	78	1-1/2"	60
1-1/2"	228	78	2"	60
2"	228	78	2"	60

NRS/OS&Y Knife Gate Valve Bi-Directional

SPECIFICATIONS

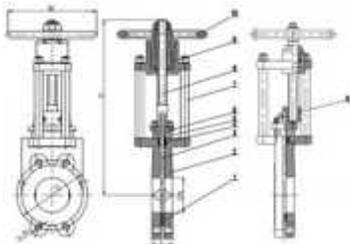
Face To Face: EN 558 S20 MSS SP-81
Flange Standard: EN1092-2, BS10, T/E, T/D, MSS SP-81
Inspection & testing: BS EN 12266-1/AWWA C520
Working Temperature: -20°C to 100°C (-4°F to 212°F)



OS&Y NRS

MATERIAL LIST

NO.	Part	Material
1	U Seat	EPDM
2	Body	Ductile Iron
3	Knife	SS316
4	Packing	PTFE
5	Bolts	Stainless Steel
6	Packing Gland	Ductile Iron
7	Yoke	SS420
8	Stem	SS420
9	Stem Nut	Brass
10	Handwheel	Ductile Iron

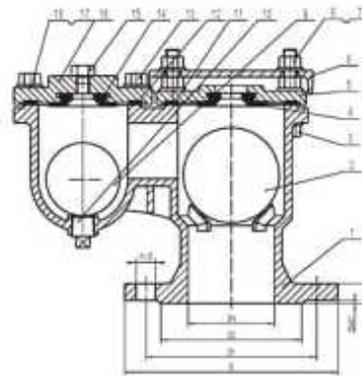


OS&Y NRS

DIMENSIONS(mm)

DN	H	EN1092-2(PN10)				BS 10 T/D				BS 10 T/E				ANSI MSS SP-81				W
		L	D	n-M	L	D	n-M	L	D	n-M	L	D	n-M	L	D	n-M		
50	337	43	125	4-M16	43	114.3	4-5/8"	43	114.3	4-5/8"	48	120.5	4-5/8"	180				
65	357	46	145	4-M16	46	146	4-5/8"	46	146	4-5/8"	48	139.5	4-5/8"	180				
80	400	46	160	8-M16	46	165.1	4-5/8"	46	165.1	4-5/8"	51	152.5	4-5/8"	200				
100	435	52	180	8-M16	52	177.8	8-5/8"	52	177.8	8-5/8"	51	190.5	8-5/8"	250				
125	519	56	210	8-M16	56	209.8	8-5/8"	56	209.8	8-5/8"	51	216	8-3/4"	300				
150	550	56	240	8-M20	56	235	8-5/8"	56	235	8-3/4"	57	241.5	8-3/4"	300				
200	648	60	295	12-M20	60	292.1	8-3/4"	60	292.1	8-3/4"	70	298.5	8-3/4"	350				
250	735	68	350	12-M20	68	355.6	12-3/4"	68	355.6	12-3/4"	70	362	12-7/8"	400				
300	879	78	400	12-M20	78	406.4	12-3/4"	78	406.4	12-7/8"	76	432	12-7/8"	500				
350	967	78	460	16-M20	78	469.9	12-7/8"	78	469.9	12-7/8"	76	476	12-1"	500				
400	1068	102	515	16-M24	102	520.7	12-7/8"	102	520.7	12-7/8"	89	539.5	12-1"	500				
450	1169	114	565	20-M24	114	584.2	12-7/8"	114	584.2	16-7/8"	89	578	16-1-1/8"	500				
500	1267	127	620	20-M24	127	641.3	16-7/8"	127	641.3	16-7/8"	114	635	20-1-1/8"	600				
600	1480	154	725	20-M27	154	755.6	16-3/4"	154	755.6	16-7/8"	114	749.5	20-1-1/4"	600				

FLANGE END AND SCREW END AIR VALVE



Scope of application

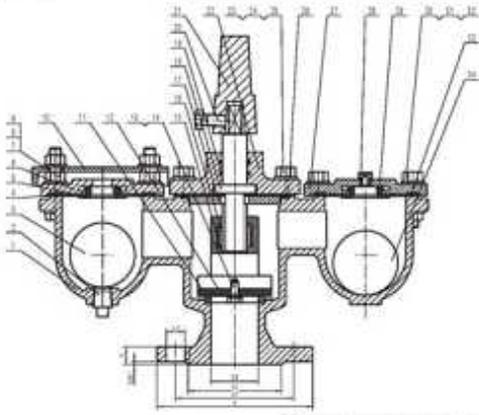
nominal pressure	1.6MPa
shell pressure	2.4MPa
seat pressure	1.76MPa
suitable medium	water
temperature	< 100°C

Scope of application

Flange drilled, conforms to BS EN1092.
DN25 is joint by screw thread.

10	sealer	steel
11	nut	steel
12	small orifice cover	ductile iron
13	orifice plug	brass
14	sealed orifice	EPDM
15	ball	steel
16	gasket	EPDM
17	ball seat large orifice	EPDM
18	orifice plug	brass
19	ball seat	stainless steel
20	sealer	steel
21	nut	steel
22	ball cap	ductile iron
23	large orifice cover	ductile iron
24	ball seat large orifice	EPDM
25	ball	steel
26	ball seat	stainless steel
27	ball	ductile iron
28	ball	ductile iron
29	ball	ductile iron
30	ball	ductile iron
31	ball	ductile iron
32	ball	ductile iron
33	ball	ductile iron
34	ball	ductile iron
35	ball	ductile iron
36	ball	ductile iron
37	ball	ductile iron
38	ball	ductile iron
39	ball	ductile iron
40	ball	ductile iron
41	ball	ductile iron
42	ball	ductile iron
43	ball	ductile iron
44	ball	ductile iron
45	ball	ductile iron
46	ball	ductile iron
47	ball	ductile iron
48	ball	ductile iron
49	ball	ductile iron
50	ball	ductile iron
51	ball	ductile iron
52	ball	ductile iron
53	ball	ductile iron
54	ball	ductile iron
55	ball	ductile iron
56	ball	ductile iron
57	ball	ductile iron
58	ball	ductile iron
59	ball	ductile iron
60	ball	ductile iron
61	ball	ductile iron
62	ball	ductile iron
63	ball	ductile iron
64	ball	ductile iron
65	ball	ductile iron
66	ball	ductile iron
67	ball	ductile iron
68	ball	ductile iron
69	ball	ductile iron
70	ball	ductile iron
71	ball	ductile iron
72	ball	ductile iron
73	ball	ductile iron
74	ball	ductile iron
75	ball	ductile iron
76	ball	ductile iron
77	ball	ductile iron
78	ball	ductile iron
79	ball	ductile iron
80	ball	ductile iron
81	ball	ductile iron
82	ball	ductile iron
83	ball	ductile iron
84	ball	ductile iron
85	ball	ductile iron
86	ball	ductile iron
87	ball	ductile iron
88	ball	ductile iron
89	ball	ductile iron
90	ball	ductile iron
91	ball	ductile iron
92	ball	ductile iron
93	ball	ductile iron
94	ball	ductile iron
95	ball	ductile iron
96	ball	ductile iron
97	ball	ductile iron
98	ball	ductile iron
99	ball	ductile iron
100	ball	ductile iron
101	ball	ductile iron
102	ball	ductile iron
103	ball	ductile iron
104	ball	ductile iron
105	ball	ductile iron
106	ball	ductile iron
107	ball	ductile iron
108	ball	ductile iron
109	ball	ductile iron
110	ball	ductile iron
111	ball	ductile iron
112	ball	ductile iron
113	ball	ductile iron
114	ball	ductile iron
115	ball	ductile iron
116	ball	ductile iron
117	ball	ductile iron
118	ball	ductile iron
119	ball	ductile iron
120	ball	ductile iron
121	ball	ductile iron
122	ball	ductile iron
123	ball	ductile iron
124	ball	ductile iron
125	ball	ductile iron
126	ball	ductile iron
127	ball	ductile iron
128	ball	ductile iron
129	ball	ductile iron
130	ball	ductile iron
131	ball	ductile iron
132	ball	ductile iron
133	ball	ductile iron
134	ball	ductile iron
135	ball	ductile iron
136	ball	ductile iron
137	ball	ductile iron
138	ball	ductile iron
139	ball	ductile iron
140	ball	ductile iron
141	ball	ductile iron
142	ball	ductile iron
143	ball	ductile iron
144	ball	ductile iron
145	ball	ductile iron
146	ball	ductile iron
147	ball	ductile iron
148	ball	ductile iron
149	ball	ductile iron
150	ball	ductile iron
151	ball	ductile iron
152	ball	ductile iron
153	ball	ductile iron
154	ball	ductile iron
155	ball	ductile iron
156	ball	ductile iron
157	ball	ductile iron
158	ball	ductile iron
159	ball	ductile iron
160	ball	ductile iron
161	ball	ductile iron
162	ball	ductile iron
163	ball	ductile iron
164	ball	ductile iron
165	ball	ductile iron
166	ball	ductile iron
167	ball	ductile iron
168	ball	ductile iron
169	ball	ductile iron
170	ball	ductile iron
171	ball	ductile iron
172	ball	ductile iron
173	ball	ductile iron
174	ball	ductile iron
175	ball	ductile iron
176	ball	ductile iron
177	ball	ductile iron
178	ball	ductile iron
179	ball	ductile iron
180	ball	ductile iron
181	ball	ductile iron
182	ball	ductile iron
183	ball	ductile iron
184	ball	ductile iron
185	ball	ductile iron
186	ball	ductile iron
187	ball	ductile iron
188	ball	ductile iron
189	ball	ductile iron
190	ball	ductile iron
191	ball	ductile iron
192	ball	ductile iron
193	ball	ductile iron
194	ball	ductile iron
195	ball	ductile iron
196	ball	ductile iron
197	ball	ductile iron
198	ball	ductile iron
199	ball	ductile iron
200	ball	ductile iron
201	ball	ductile iron
202	ball	ductile iron
203	ball	ductile iron
204	ball	ductile iron
205	ball	ductile iron
206	ball	ductile iron
207	ball	ductile iron
208	ball	ductile iron
209	ball	ductile iron
210	ball	ductile iron
211	ball	ductile iron
212	ball	ductile iron
213	ball	ductile iron
214	ball	ductile iron
215	ball	ductile iron
216	ball	ductile iron
217	ball	ductile iron
218	ball	ductile iron
219	ball	ductile iron
220	ball	ductile iron
221	ball	ductile iron
222	ball	ductile iron
223	ball	ductile iron
224	ball	ductile iron
225	ball	ductile iron
226	ball	ductile iron
227	ball	ductile iron
228	ball	ductile iron
229	ball	ductile iron
230	ball	ductile iron
231	ball	ductile iron
232	ball	ductile iron
233	ball	ductile iron
234	ball	ductile iron
235	ball	ductile iron
236	ball	ductile iron
237	ball	ductile iron
238	ball	ductile iron
239	ball	ductile iron
240	ball	ductile iron
241	ball	ductile iron
242	ball	ductile iron
243	ball	ductile iron
244	ball	ductile iron
245	ball	ductile iron
246	ball	ductile iron
247	ball	ductile iron
248	ball	ductile iron
249	ball	ductile iron
250	ball	ductile iron
251	ball	ductile iron
252	ball	ductile iron
253	ball	ductile iron
254	ball	ductile iron

FLANGE END DOUBLE ORIFICE STANDARD AIR VALVE



Scope of application

nominal pressure	1.6MPa
shell	2.4MPa
seat	1.76MPa
suitable medium	water
temperature	<100°C

Flange drilled conforms to BS EN 1092.

34	Flange bolt	stainless ABB
33	Flange nut	EPDM
32	Flange gasket	steel
31	Flange	steel
30	Flange	steel
29	Flange gasket	EPDM
28	Flange nut	stainless ABB
27	Flange bolt	stainless ABB
26	Flange	EPDM
25	Flange	steel
24	Flange	steel
23	Flange	steel
22	Flange nut	stainless ABB
21	Flange bolt	stainless ABB
20	Flange	steel
19	Flange	steel
18	Flange	EPDM
17	Flange	stainless steel
16	Flange	stainless steel
15	Flange	cast bronze
14	Flange	ductile iron
13	Flange	steel
12	Flange	stainless steel
11	Flange	stainless steel
10	Flange	stainless steel
9	Flange	stainless steel
8	Flange	stainless steel
7	Flange	stainless steel
6	Flange	stainless steel
5	Flange	stainless steel
4	Flange	stainless steel
3	Flange	stainless steel
2	Flange	stainless steel
1	Flange	stainless steel
NO	Name of part	Material

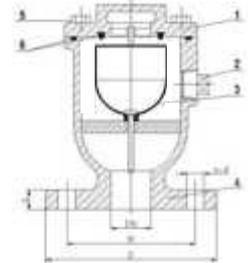
size	D	D1	D2	B	f	n-d
40	150	110	84	19	3	4-19
50	165	125	99	19	3	4-19
65	185	145	118	19	3	4-19
80	200	160	132	19	3	8-19
100	220	180	156	19	3	8-19
125	250	210	184	19	3	8-19
150	265	240	211	19	3	8-23
200	340	295	266	20	3	12-23
250	405	355	319	22	3	12-26
300	460	410	370	24.5	4	12-28

Air Valve Flanged Ends

Scope of application

Design Standard: EN 1074-4.
Inspection & testing: EN 12266-1.

nominal pressure	1.6MPa
test pressure	1.76MPa
suitable medium	water
temperature	-20° ~ 100°



MATERIAL LIST

NO.	Part	Material
1	Bonnet	Ductile Iron ASTM A536
2	Taper Plug	Brass
3	Float	SS304
4	Body	Ductile Iron ASTM A536
5	Bolts	Stainless Steel
6	Gasket	NBR

DIMENSIONS

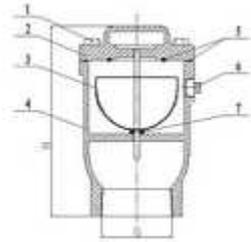
DN	M	D	b	n-d
50	125	165	19	4-19
80	160	200	19	4-19
100	180	220	19	8-19
150	240	285	21	8-23
200	295	340	21	8-23

Air Valve Thread Ends

Scope of application

Design Standard: EN 1074-4.
Inspection & testing: EN 12266-1.

nominal pressure	1.6MPa
test pressure	1.76MPa
suitable medium	water
temperature	-20° ~ 100°



MATERIAL LIST

NO.	Part	Material
1	Bolts	Stainless Steel
2	Bonnet	Ductile Iron ASTM A536
3	Float	SS304
4	Body	Ductile Iron ASTM A536
5	Gasket	NBR
6	Taper Plug	Brass
7	O-ring	NBR

DIMENSIONS

size	H	G(BSP)
1"	138	1"
2"	184.5	2"
3"	244.5	3"
4"	315	4"
5"	398	5"
6"	492	6"
8"	633	8"
10"	690	10"
12"	790	12"

OKVAL

Rubber Expansion joint single sphere

FIG

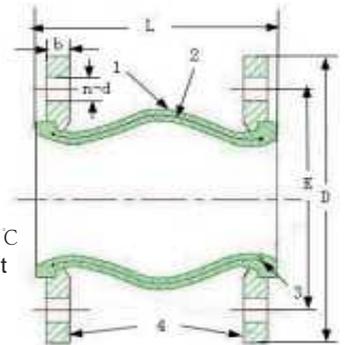
Main Parts and Materials

- 1 Body : EPDM Rubber
- 2 Reinforcing Cloth :Nylon
- 3 Wire: Haed Carbon Steel
- 4 Flange Carbon Steel

Features

Working pressure (bar) 10 16 25
Burst pressure (bar) 30 48 75
Working temperature -20°C to 115°C
Working Fluids Water Air Solvent Acid

Dimensions (mm)



PN10

SIZE	D	K	n-d	b	L	Axial/mm		Tranversers e	Angular Deflecting
	mm	mm	mm	mm	+/-5mm	Elongation	Compressor		
DN32	140	100	4-18	15	95	6	10	10	25°
DN40	150	110	4-18	15	95	6	10	10	25°
DN 50	165	125	4-18	15	105	6	10	10	25°
DN 65	185	145	4-18	15	115	8	15	12	25°
DN 80	200	160	8-18	17	130	8	15	12	25°
DN100	220	180	8-18	17	135	12	20	16	15°
DN125	250	210	8-18	19	165	12	20	16	15°
DN150	285	240	8-22	21	180	12	20	16	15°
DN200	340	295	8-22	21	205	12	20	16	15°
DN250	395	350	12-22	23	240	14	30	25	8°
DN300	445	400	12-22	23	260	14	30	25	8°
DN350	505	460	16-22	25	265	14	30	25	8°
DN400	565	515	16-26	25	265	14	30	25	8°
DN450	615	565	20-26	25	265	14	30	25	8°
DN500	670	620	20-26	27	265	14	30	25	8°
DN600	780	725	20-30	27	265	14	30	25	8°

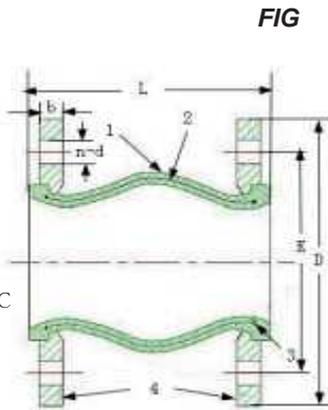
Main Parts and Materials

- 1 Body : EPDM Rubber
- 2 Reinforcing Cloth :Nylon
- 3 Wire: Haed Wire
- 4 Flange Carbon Steel

Features

Working pressure (bar) 10 16 25
 Burst pressure (bar) 30 48 75
 Working temprature -20 C to 115 C
 Working Fluids Water Air Solvent Acid

Dimensions (mm)



DIN PN16

SIZE	D		K	n-d	b	L	Axial/mm		Transevers e	Angular Deflecting
	mm	mm					Elongtion	Compressor		
DN32	140	100	4-18	15	95	6	10	10	10	25°
DN40	150	110	4-18	15	95	6	10	10	10	25°
DN 50	165	125	4-18	15	105	6	10	10	10	25°
DN 65	185	145	4-18	15	115	8	15	12	12	25°
DN 80	200	160	8-18	17	130	8	15	12	12	25°
DN100	220	180	8-18	17	135	12	20	16	16	15°
DN125	250	210	8-18	19	165	12	20	16	16	15°
DN150	285	240	8-22	21	180	12	20	16	16	15°
DN200	340	295	12-22	21	205	12	20	16	16	15°
DN250	405	355	12-26	23	240	14	30	25	25	8°
DN300	460	410	12-26	25	260	14	30	25	25	8°
DN350	520	470	16-26	25	265	14	30	25	25	8°
DN400	580	525	16-30	27	265	14	30	25	25	8°
DN450	640	585	20-30	29	265	14	30	25	25	8°
DN500	715	650	20-33	29	265	14	30	25	25	8°
DN600	840	770	20-36	29	265	14	30	25	25	8°

<http://www.okval.com> Email: ok@okval.com

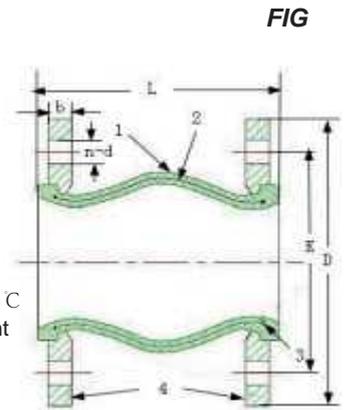
Main Parts and Materials

- 1 Body : EPDM Rubber
- 2 Reinforcing Cloth :Nylon
- 3 Wire: Haed Wire
- 4 Flange Carbon Steel

Features

Working pressure (bar) 10 16 25
 Burst pressure (bar) 30 48 75
 Working temprature -20 C to 115 C
 Working Fluids Water Air Solvent Acid

Dimensions (mm)



ANSI 150LBS

SIZE	D		K	n-d	b	L	Axial/mm		Transevers e	Angular Deflecting
	mm	mm					Elongtion	Compressor		
1.1/4"	115	89	4-15.9	15	95	6	10	10	10	25°
1.1/2"	125	98.5	4-15.9	16	95	6	10	10	10	25°
2"	150	120.5	4-19.1	16	105	6	10	10	10	25°
2.1/2"	180	139.5	4-19.1	18	115	8	15	12	12	25°
3"	190	152.5	4-19.1	19	130	8	15	12	12	25°
4"	230	190.5	4-19.1	24	135	12	20	16	16	15°
5"	255	216	8-22.3	24	165	12	20	16	16	15°
6"	280	241.5	8-22.3	25	180	12	20	16	16	15°
8"	345	298.5	8-22.3	28	205	12	20	16	16	15°
10"	405	362	12-25.4	30	240	14	30	25	25	8°
12"	485	432	12-25.4	32	260	14	30	25	25	8°
14"	535	476	12-28.6	35	265	14	30	25	25	8°
16"	595	540	16-28.6	37	265	14	30	25	25	8°
18"	635	578	16-31.8	40	265	14	30	25	25	8°
20"	700	635	20-31.8	43	265	14	30	25	25	8°
24"	815	749.5	20-34.9	48	265	14	30	25	25	8°

<http://www.okval.com> Email: ok@okval.com

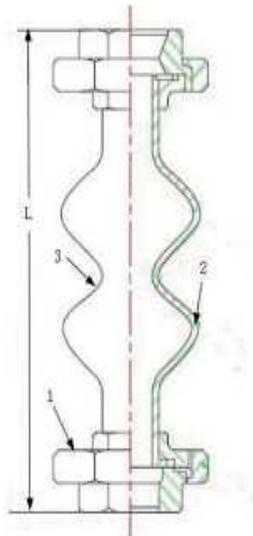
Main Parts and Materials

- 1 Union malleable iron GALV
Thread BSP DIN2999 NPT
- 2 Reinforcing Fabric Nylon
- 3Elastomer EPDM

Feature

Working pressure (bar) 10 16 25
 Burst pressure (bar) 30 48 75
 Working temprature -20 C to 115 C
 Working Fluids Water Air Solvent Acid

Dimensions (mm)



DIN2999 PN10

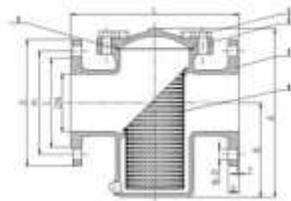
SIZE	L		Axial/mm		Transevers e	Angular Deflecting
	mm	mm	Elongtion	Compressor		
DN15	200	6	22	22	22	20°
DN20	200	6	22	22	22	20°
DN25	200	6	22	22	22	20°
DN32	200	6	22	22	22	20°
DN40	200	6	22	22	22	20°
DN 50	200	6	22	22	22	20°
DN 65	200	6	22	22	22	20°
DN 80	200	6	22	22	22	20°

<http://www.okval.com> Email: ok@okval.com

Basket Type Strainer

SPECIFICATIONS

Flanges Standard: BS EN 1092-2.
 Inspection & testing: BS EN 12266-1
 Special network diameter can be customized
 Working Pressure: 16bar



MATERIAL LIST

NO	Part	Material
1	Bolts	SS304/316
2	Bonnet	Ductile Iron
3	Body	Ductile Iron
4	Filter Screen	Stainless Steel
5	Gasket	NBR/EPDM

DIMENSIONS(mm) EN1092-2 PN16

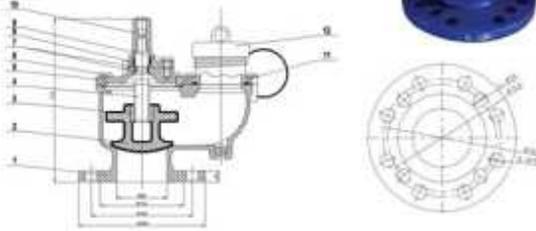
DN	L	A	B	M	C	D	b	f	n-d	the filter aperture
50	200	185	100	125	99	165	19	3	4-19	1.5
65	210	220	125	145	118	185	19	3	4-19	1.5
80	240	265	145	160	132	200	19	3	8-19	1.5
100	290	305	175	180	156	220	19	3	8-19	2
125	330	330	185	210	184	250	19	3	8-19	2
150	370	370	220	240	211	285	19	3	8-23	2
200	470	470	280	295	266	340	20	3	12-23	2
250	510	545	320	355	319	405	22	3	12-28	3
300	680	635	380	410	370	460	24.5	4	12-28	3
350	760	765	480	470	429	520	26.5	4	16-28	3
400	840	860	520	525	480	580	28	4	16-31	3
450	840	910	560	585	548	640	30	4	20-31	3
500	840	990	600	650	609	715	31.5	4	20-34	3
600	1050	1350	900	770	720	840	36	5	20-37	3

BS T50 Fire Hydrant

SPECIFICATIONS

Design Standard: BS EN1074-6.
Flanges Standard: BS EN1092-2 BS10 T/D, T/E.
Inspection & testing: BS EN 12266-1

Working Pressure: 16bar
Working Temperature: -20°C to 100°C
Operator: Operating Nut



MATERIAL LIST

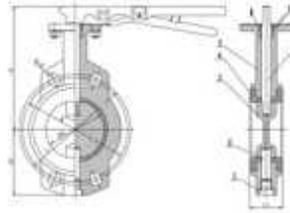
ITEM	Part	Material
1	Body	Ductile Iron
2	Gate	Ductile Iron/EPDM
3	Stem Nut	Brass
4	Stem	SS420
5	Bonnet	Ductile Iron
6	Bolt	Stainless Steel
7	O-ring	NBR
8	Gland	Ductile Iron
9	Bolt	Stainless Steel
10	Cap Top	Ductile Iron
11	Outlet	SS304
12	Cap	Plastic

Butterfly Valve

SPECIFICATIONS

Design Standard: BS5155.
Face to Face: EN558, S20.
Flanges Standard: EN1092-2, ANSI B16.1.
Inspection & testing: BS EN 12266-1

Working Pressure: 16bar
Working Temperature: -20°C to 100°C
Operator: Operating Nut, Gearbox



MATERIAL LIST

NO	Part	Material
1	Bolt	Stainless Steel
2	Stem	SS420
3	Flap	SS304
4	Disc	NBR/EPDM
5	Body	Ductile Iron
6	Stem	SS420
7	O-ring	NBR/EPDM
8	Copper Sheathing	Brass

DIMENSIONS(mm)

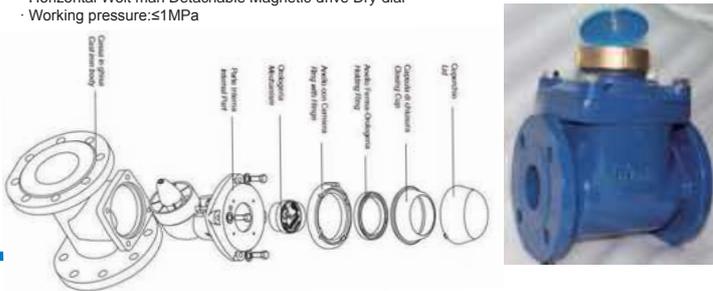
DN	L1	H	H1	B(C125)	C(PN10)	N-D(PN10)	N-D(C125)
50	43	135	65	120.5	125	4-19	4-19
65	46	155	78	139.7	145	4-19	4-19
80	46	165	83	152.4	160	8-19	4-19
100	52	180	107	190.5	180	8-19	8-19
125	56	195	120	215.5	210	8-19	8-22
150	56	210	132	241.3	240	8-23	8-22
200	60	265	170	298.5	295	8-23	8-22
250	68	295	190	361.9	350	12-23	12-25
300	78	335	222	431.6	400	12-23	12-25
350	78	370	295	476.2	460	16-23	12-29
400	102	400	356	539.7	515	16-28	16-29
450	114	435	380	577.8	565	20-28	16-32
500	127	490	410	635	620	20-28	20-32
600	154	550	500	749.3	725	20-31	20-35

OKVAL

DI Horizontal Wolt man Water Meter

Materials and Features

- Dry-dial, Magnetic drive
- ISO 4064 class B Standard
- Horizontal Wolt man Detachable Magnetic-drive Dry-dial
- Working pressure: ≤1MPa

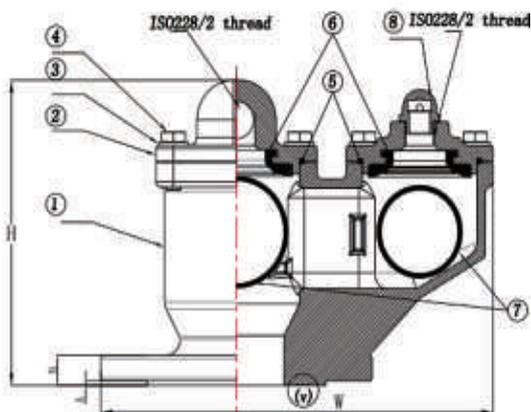


Size	Length L	Width B	Height H	Connecting thread		Weight	
				D	Bolt circle dia D1		
50	200	175	250	165	125	4xM16	12
65	200	185	255	185	145	4xM16	13
80	225	200	265	200	160	8xM16	15
100	250	220	275	220	180	8xM16	19
125	250	245	285	245	210	8xM16	22
150	300	285	375	285	240	8xM20	47
200	350	345	400	340	295	8xM20	48

Size	Measuring class	Overload flow	Nominal flow	Transitional flow	Min flow	Starting flow	Min reading	Max reading
(mm)	class	m ³ /h				1/h	m ³	
50	B	30	15	3	0.45	150	0.01	9999999
65	B	50	25	5	0.75	170	0.01	9999999
80	B	80	40	8	1.2	280	0.01	9999999
100	B	120	60	12	1.8	400	0.01	9999999
125	B	200	100	20	3	800	0.01	9999999
150	B	300	150	30	4.5	1200	0.01	9999999
200	B	500	250	50	7.5	2250	0.01	9999999

■ Materials and Features

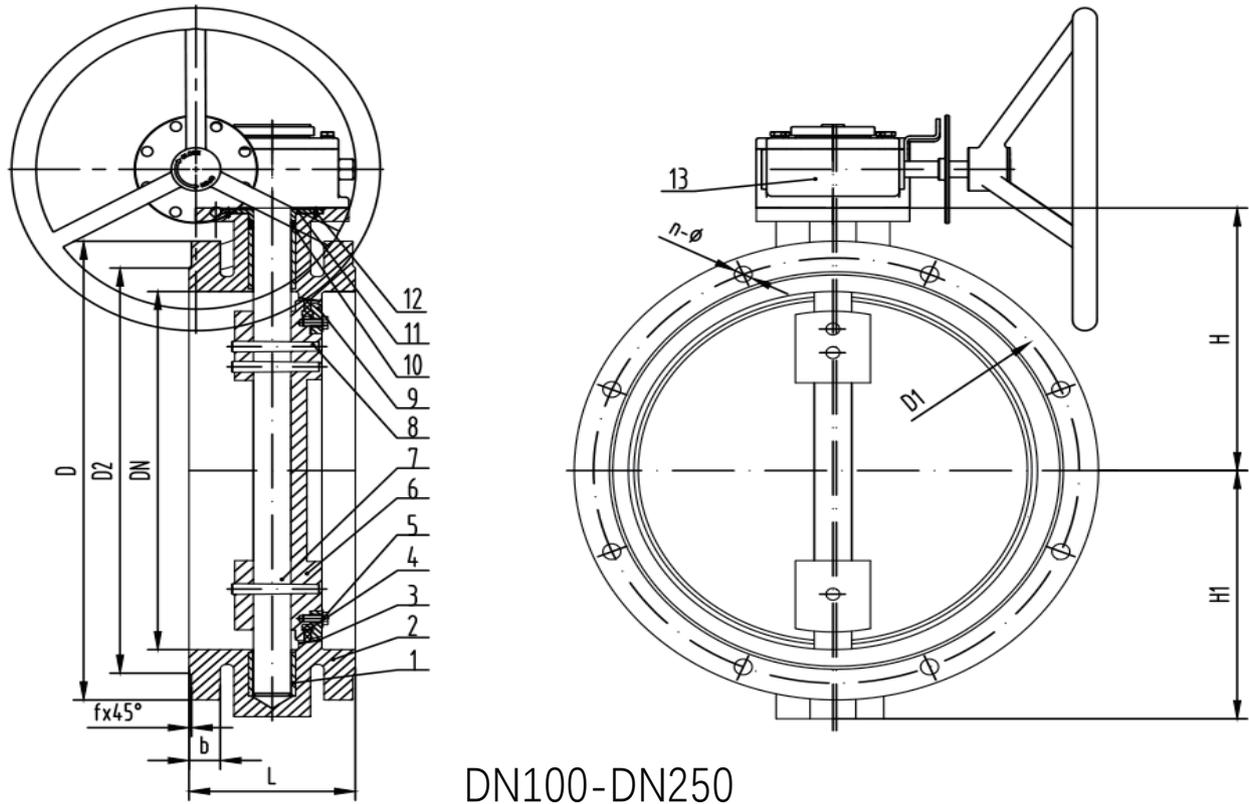
- Face to face according to DIN EN558-1
- Flange according to EN1092
- Working temperature: -20°C- 80°C
- Working pressure:PN10, PN16



Item	Part Name	Material
1	Body	GGG50
2	Bonnet	GGG50
3	Bolt	SS304
5	O Ring	EPDM
6	Rubber gasket	EPDM
7	Ball	SS304+ABS/SS304

■ Dimensions (mm)

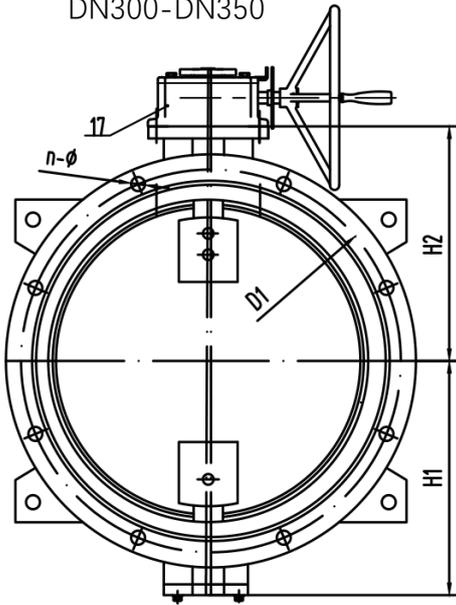
DN	A	B	W	H	n-d	
					PN10	PN16
50	3	19	241	188	4-19	
65	3	19	267	192	4-19	
80	3	19	295	220	8-19	
100	3	19	327	235	8-19	
150	3	19	446	354	8-23	
200	3	20	573	440	8-23	12-23



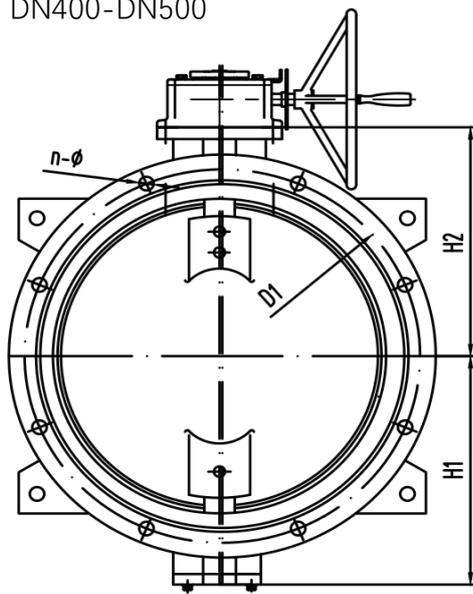
DN	L	H1±3	H±3	fx45°	PN10					PN16					φ1	φ2	N-φM	φ4	K
					D	D1	D2	n-φ	b	D	D1	D2	n-φ	b					
DN100	190	123	178	3	220	180	156	8-19	19	220	180	156	8-19	19	90	70	4-10	20	6
DN150	210	162	217	3	285	240	211	8-23	19	285	240	211	8-23	19	125	102	4-12	20	6
DN200	230	175	250	3	340	295	266	8-23	20	340	295	266	12-23	20	125	102	4-12	25	8
DN250	250	201	260	3	395	350	319	12-23	22	405	355	319	12-28	22	125	102	4-12	30	8

Part no.	Part name	Material
1	Stem Packing	Steel
2	Body	Ductile iron
3	Seat Retainer	welding ANSI 304
4	Sealing Ring	EPDM
5	Hex bolts	A2-70
6	Disc	Ductile iron
7	Stem	SS420
8	PIN	SS420
9	Spring Gasket	carbon steel
10	O ring	EPDM
11	Gland	Ductile iron
12	Hex Bolts	A2-70
13	Worm Gear	Ductile iron

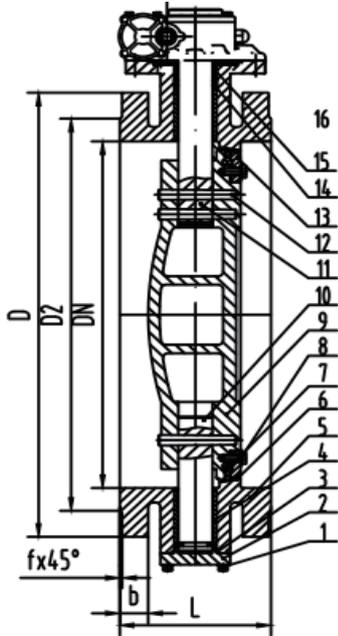
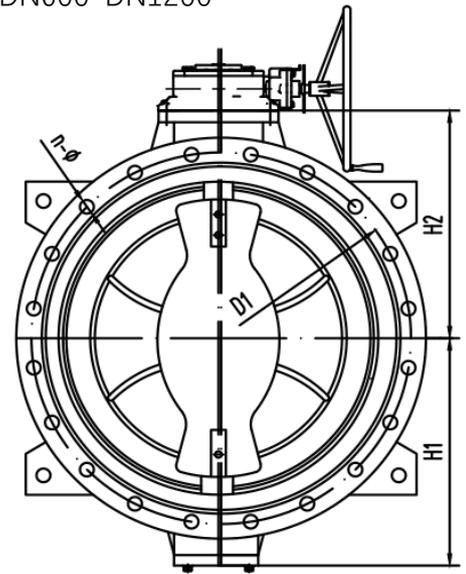
DN300-DN350



DN400-DN500



DN600-DN1200

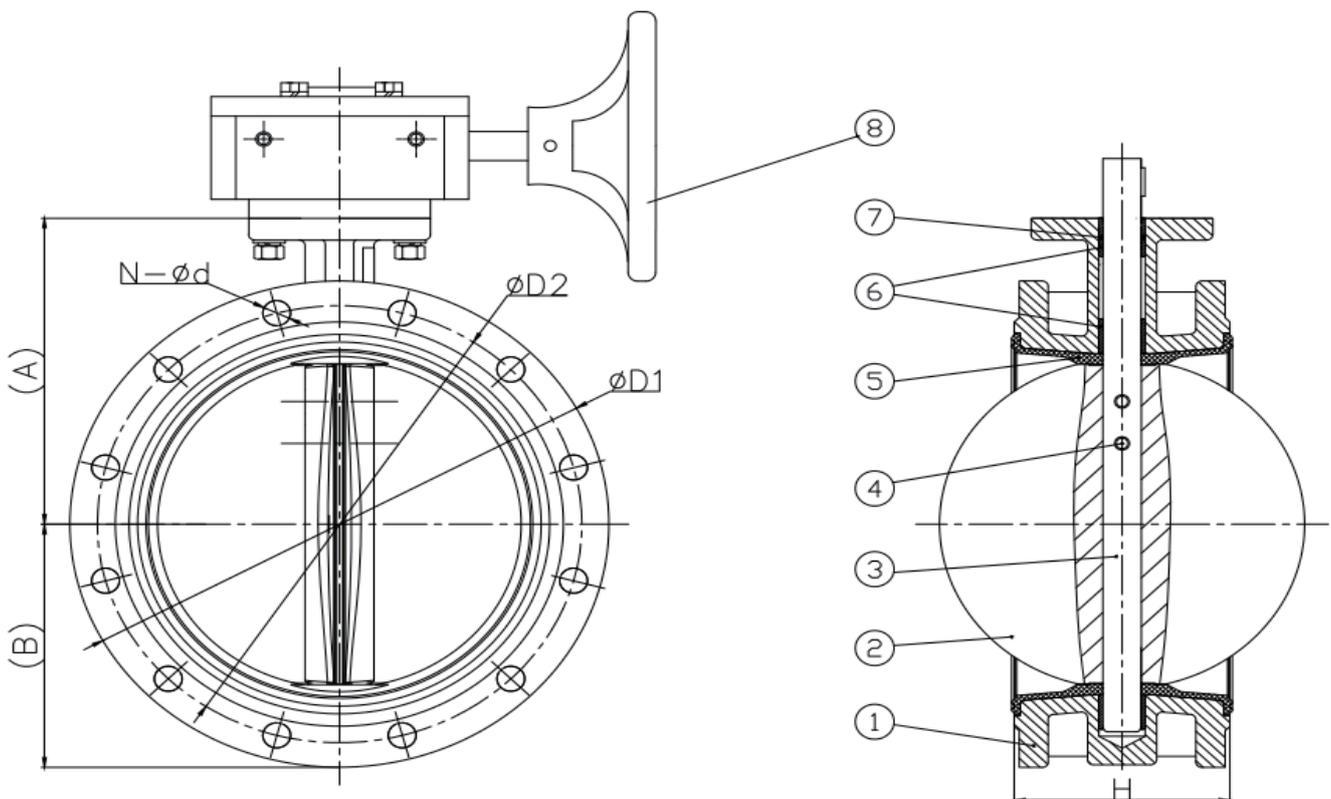


Part no.	Part name	Material
1	Hex Bolts	A2-70
2	End Cover	Ductile iron
3	O ring	EPDM
4	Stem Packing	Steel
5	Body	Ductile iron
6	Seat Retainer	welding ANSI 304
7	Sealing Ring	EPDM
8	Hex bolts	A2-70
9	Disc	Ductile iron
10	Down Stem	SS420
11	Up Stem	SS420
12	PIN	SS420
13	Spring Gasket	carbon steel
14	O ring	EPDM
15	Gland	Ductile iron
16	Hex Bolts	A2-70
17	Worm Gear	Ductile iron

DN	L 长结构	H1	H2	f	PN10					PN16				
					D	D1	D2	n-φ	b	D	D1	D2	n-φ	b
300	270	246	306	4	460	400	370	12-23	24.5	460	410	370	12-28	24.5
350	290	284	334	4	520	460	429	16-23	26.5	520	470	429	16-28	26.5
400	310	308	375	4	565	515	480	16-28	24.5	580	525	480	16-31	28
450	330	345	388	4	615	565	530	20-28	25.5	640	585	548	20-31	30
500	350	375	433	4	670	620	582	20-28	26.5	715	650	609	20-34	31.5
600	390	432	494	5	780	725	682	20-31	30	840	770	720	20-37	36
700	430	491	556	5	895	840	794	24-31	32.5	910	840	794	24-37	39.5
800	470	567	613	5	1015	950	901	24-34	35	1025	950	901	24-41	43
900	510	606	692	5	1115	1050	1001	28-34	37.5	1125	1050	1001	28-41	46.5
1000	550	714	755	5	1230	1160	1112	28-37	40	1255	1170	1112	28-44	50
1100	590	750	796	5	1340	1270	1218	32-37	42.5	1355	1270	1218	32-44	53.5
1200	630	798	845	5	1455	1380	1328	32-41	45	1485	1390	1328	32-50	57
1400	710	972	1025	5	1675	1590	1530	36-44	46	1685	1590	1530	36-50	60
1500	600	1005	1055	5	1785	1700	1640	36-44	47.5	1820	1710	1640	36-57	62.5
1600	790	1112	1172	5	1915	1820	1750	40-50	49	1930	1820	1750	40-57	65
1800	870	1270	1350	5	2115	2020	1950	44-50	52	2130	2020	1950	44-57	70
2000	950	1360	1450	5	2325	2230	2150	48-50	55	2345	2230	2150	48-62	75

- Ductile iron GGG50 material with FBE coated
- Widely connected with DN40, DN50, DN65
- PN10, PN16 working pressure
- Flange drilling ISO PN10/16

Part no.	Part name	Material
1	Body	Ductile Iron
2	Disc	Ductile Iron
3	Stem	Carbon Steel
4	Pin	SS410
5	Seat	EPDM
6	Bushing	Bronze
7	O-ring	NBR

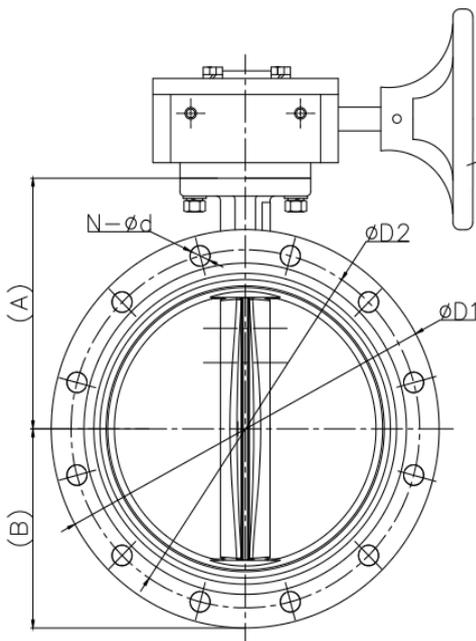


DN50-DN350

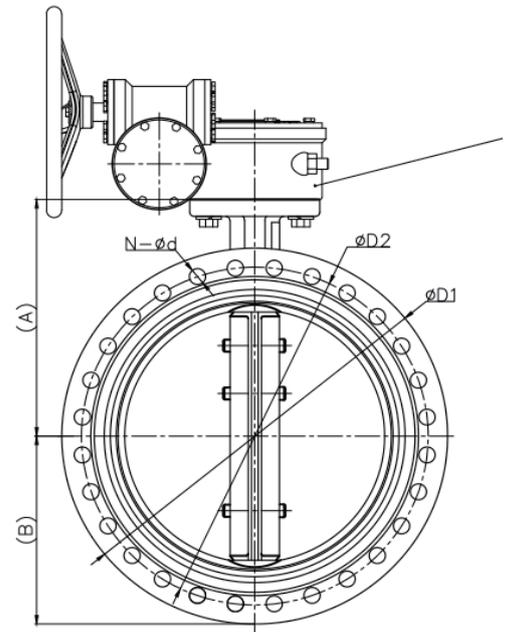
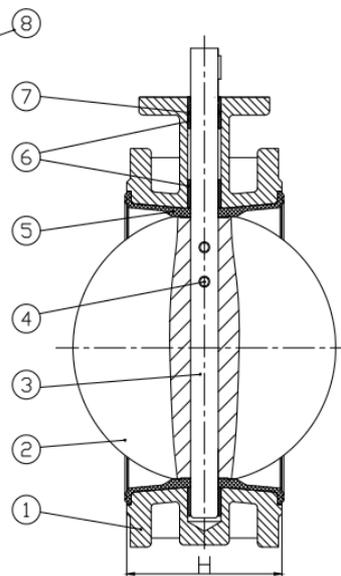
规格	A	B	H±3	PN10			PN16			PN6		
				øD1	øD2	N-ød	øD1	øD2	N-ød	øD1	øD2	N-ød
DN50	120	80	108	165	125	4-ø19	165	125	4-ø19	140	110	4-ø14
DN65	145	75	112	185	145	4-ø19	185	145	4-ø19	160	130	4-ø14
DN80	130	90	114	200	160	8-ø19	200	160	8-ø19	190	150	4-ø18
DN100	165	115	127	220	180	8-ø19	220	180	8-ø19	210	170	4-ø18
DN125	180	110	140	250	210	8-ø19	250	210	8-ø19	240	200	8-ø18
DN150	190	150	140	285	240	8-ø23	285	240	8-ø23	265	225	8-ø18
DN200	240	160	152	340	295	8-ø23	340	295	12-ø23	320	280	8-ø18
DN250	260	195	165	395	350	12-ø23	405	355	12-ø28	375	335	12-ø18
DN300	300	220	178	445	400	12-ø23	460	410	12-ø28	440	395	12-ø22
DN350	330	245	190	505	460	16-ø23	520	470	16-ø28	490	445	12-ø22

- Face to face ISO 5752
- Inspection and test: API 598
- Mounting pad:ISO 5211
- Flange Drill: DIN2501 PN6/PN10/PN16

Part no.	Part name	Material
1	Body	Ductile Iron
2	Disc	Ductile Iron
3	Stem	Carbon Steel
4	Pin	SS410
5	Seat	EPDM
6	Bushing	Bronze
7	O-ring	NBR



DN50-DN350



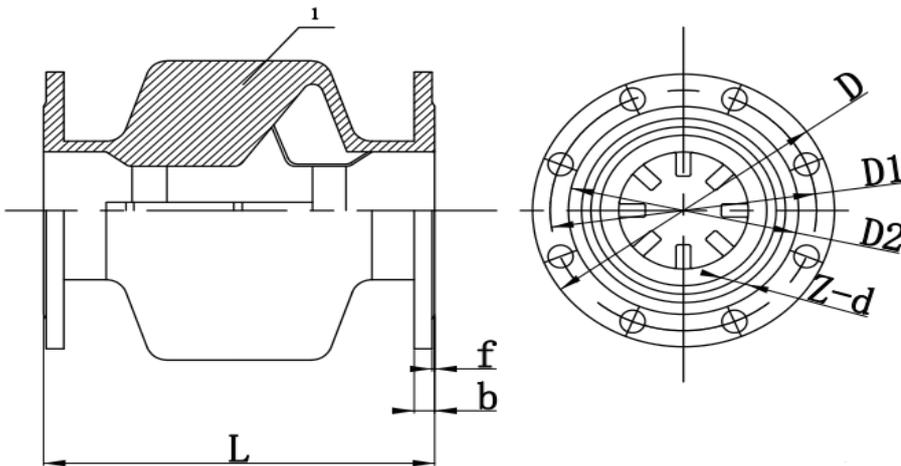
DN400-DN1600

规格	A	B	H±3	PN10			PN16			PN6		
				øD1	øD2	N-ød	øD1	øD2	N-ød	øD1	øD2	N-ød
DN50	120	80	108	165	125	4-ø19	165	125	4-ø19	140	110	4-ø14
DN65	145	75	112	185	145	4-ø19	185	145	4-ø19	160	130	4-ø14
DN80	130	90	114	200	160	8-ø19	200	160	8-ø19	190	150	4-ø18
DN100	165	115	127	220	180	8-ø19	220	180	8-ø19	210	170	4-ø18
DN125	180	110	140	250	210	8-ø19	250	210	8-ø19	240	200	8-ø18
DN150	190	150	140	285	240	8-ø23	285	240	8-ø23	265	225	8-ø18
DN200	240	160	152	340	295	8-ø23	340	295	12-ø23	320	280	8-ø18
DN250	260	195	165	395	350	12-ø23	405	355	12-ø28	375	335	12-ø18
DN300	300	220	178	445	400	12-ø23	460	410	12-ø28	440	395	12-ø22
DN350	330	245	190	505	460	16-ø23	520	470	16-ø28	490	445	12-ø22

mm	INCH	H±4	A	B	PN10			PN16		
					øD1	øD2	N-ød	øD1	øD2	N-ød
DN400	16"	216	370	267	565	515	16-ø28	580	525	16-ø31
DN450	18"	222	400	300	615	565	20-ø28	640	585	20-ø31
DN500	20"	229	500	390	670	620	20-ø28	715	650	20-ø34
DN600	24"	267	522	413	780	725	20-ø31	840	770	20-ø37
DN700	28"	292	570	480	895	840	24-ø31	910	840	24-ø37
DN750	30"	308	610	490						
DN800	32"	318	630	515	1015	950	24-ø34	1025	950	24-ø40
DN900	36"	330	690	560	1115	1050	28-ø34	1125	1050	28-ø40
DN1000	40"	410	745	635	1230	1160	28-ø37	1255	1170	28-ø43
DN1050	42"	410	858	757						
DN1200	48"	470	925	775	1455	1380	32-ø40	1485	1390	32-ø49
DN1600	64"	600	1150	1050	1915	1820	40-ø54	1930	1820	40-ø56

■ Materials and Features

- Material:GGG50
- Face to face according to EN558-1
- Flange according to EN1092-2
- Working temperature: -20°C- 100°C
- Working pressure:PN16

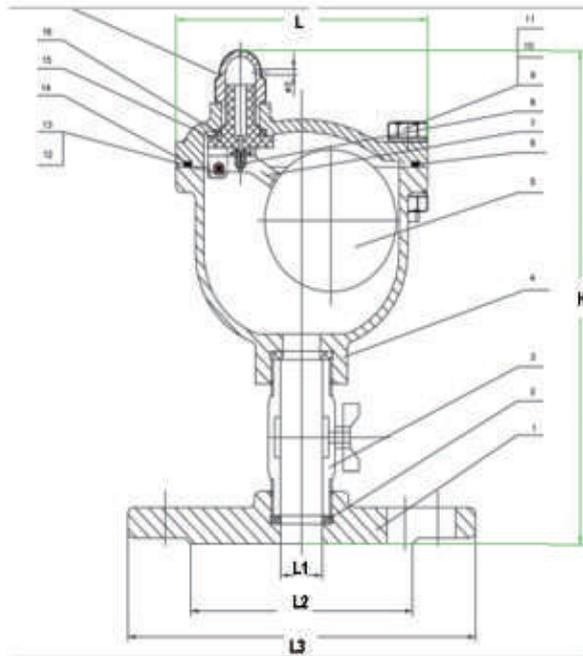


■ Dimensions (mm)

DN	D	D1	D2	L	b	f	n-d
50	165	125	99	150	19	3	4-19
65	185	145	121	195	19	3	4-19
80	200	160	138	240	19	3	8-19
100	220	180	156	300	19	3	8-19
150	285	240	211	450	19	3	8-23
200	340	295	266	600	20	3	12-23

■ Materials and Features

- Ductile iron GGG50 material with FBE coated
- Widely connected with DN40, DN50, DN65
- PN10, PN16 working pressure
- Flange drilling ISO PN10/16



■ Dimensions (mm)

DN	L	H	L1	L2	L3
25	134	243.5	22	118	185