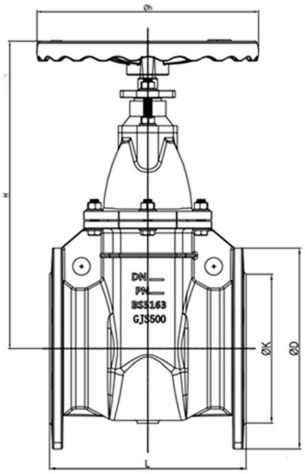
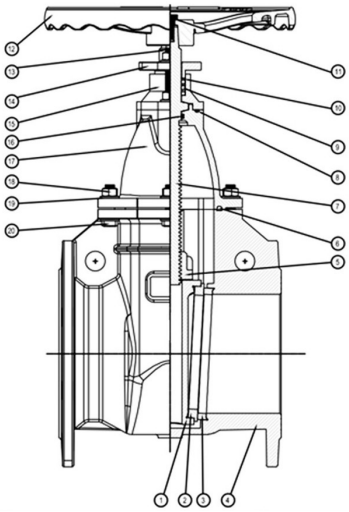
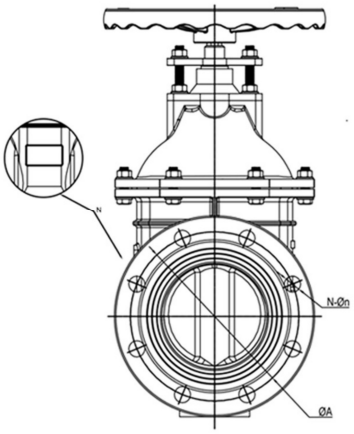
Metal Seated Gate Valve (GVM200)







SR	NAME	MATERIAL
1	DISC	GGG5O
2	DISC SEALING RING	BRASS
3	BODY SEALING RING	BRASS
4	BODY	GGG5O
5	STEM NUT	CuZN39h2
6	BONNET GASKET	NBR
7	STEM	SSS304
8	O-RING	NBR
9	O-RING	NBR
10	SEALING GASKET	PVC-U
11	BOLT	SSS304
12	HANDWHEEL	GGG50
13	STUDS	SSS304
14	GLAND	GGG50
15	PACKING BOX	GGG50
16	O-RING	NBR
17	BONNET	GGG50
18	BOLTS	SSS304
19	WASHERS	SSS304
20	NUT	SSS304

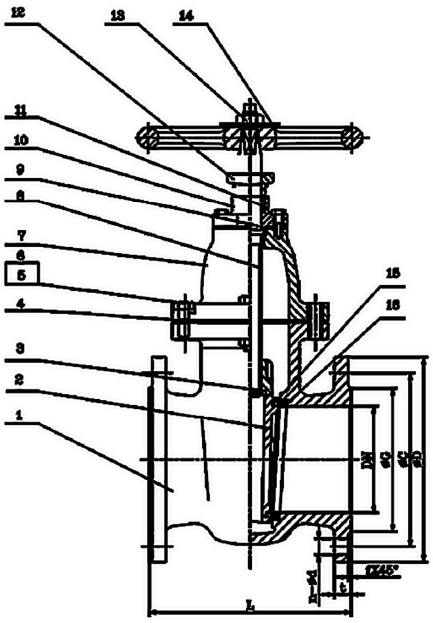
TECHNICAL REQUIREMENT:

1. INSIDE AND SURFACE OF THE CASTING COATS EPOXY

MAIN TECHNICAL PARAMETER		
PN	1.6 MPA	
TEST PRESSURE	STRENGTH	2.4 MPA
	SEAL	1.8 MPA
TEMPRATURE	NOMINAL	
MEDIUM	CLEAN, SEWAGE, WATER, AIR	
OPERATING TYPE	CAP, HANDWHEEL	

DN	L	øh	H	ø D PN10/16	ø A PN10/16	B	ø K	N-ø n PN10/16
50	178	180	214	165	125	19	99	4-ø 19
	150					18		
65	190	200	223	185	145	19	118	4-ø19
	170					18		
80	203	200	262	200	160	19	132	8-ø19
	180					20		
100	229	220	323	220	180	19	156	8-ø19
	190					20		
125	254	254	380	250	210	19	184	8-ø 19
	200					22		
150	267	315	438	285	240	19	211	8-ø 23
	210					22		
200	292	315	518	340	295	20	266	8-ø 23/ 12-ø 23
	230					24		
250	292	380	615	395/405	350/355	22	319	12-ø 23/ 12-ø 28
	250					26		
300	356	380	705	455/460	400/410	24.5	370	12-ø 23/ 12-ø 28
	270					28		

Metal Seated Gate Valves (GVM201)



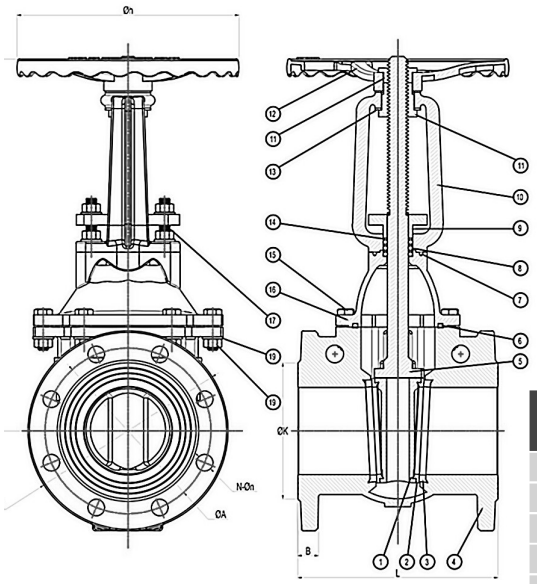
METAL SEAT GATE VALVE PN16 DN50 ~ 600			
WORKING PRESSURE		1.6	MPa
TEST PRESSURE	BODY	1.76	
	SEAT	2.4	
FLOW MEDIUM			

No.	Component	MATERIAL
16.	Seat of body	Brass
15.	Seat of wedge	Brass
14.	Handwheel	Ductile iron
13.	Hexagon nut	SS304
12.	Real gland	Brass
11.	'0' ring	NBR
10.	Gland box	Ductile iron
9.	Washer	NBR
8.	Stem	SS304
7.	Bonnet	Ductile iron
6.	Hexagon nut	SS304
5.	Bolt	SS304
4.	Washer	NBR
3.	Stem nut	Brass
2.	Wedge	Ductile iron
1.	Body	Ductile iron

SIZE DN	DIN3202 F4	BS5163	DIN3202 F5	FLANGED TO BS4504 EN1092 PN16/10					
	L	L	L	øD	øC	øG	t	n - d	f
40	140	165	240	150	110	88	18	4 - 19	3
50	150	178	250	165	125	102	19	4 - 19	3
65	170	190	270	179	145	122	19	4 - 19	3
80	180	203	280	194	160	138	19	8 - 19 / 4 - 19	3
100	190	229	300	215	180	158	19	8 - 19	3
125	200	254	325	245	210	188	19	8 - 19	3
150	210	267	350	278	240	212	20	8 - 23	3
200	230	292	400	322	295	268	22	12 - 23 / 8 - 23	3
250	250	330	450	405/395	355/350	320	24.5	12 - 28 / 8 - 23	3
300	270	356	500	460/445	410/400	370	24.5	12 - 28 / 8 - 23	4
350	290	381	550	520/505	470/460	429	26.5	16 - 28 / 16 - 23	4
400	310	406	600	580/565	528/515	480	28	16 - 31 / 16 - 28	4
450	330	432	650	640/615	585/565	530/548	30	20 - 31 / 20 - 28	4
500	350	457	700	715/670	650/620	582/609	31.5	20 - 34 / 20 - 28	4
600	390	508	800	840/780	770/725	682/720	36	20 - 37 / 20 - 31	5

Technology Condition
The Face-to-face dimension according to BSEN 558;
Flange connection according to BS4504 EN1092;

Rising Stem Metal Seated Gate Valve (GVR202)



Technical Requitement

1. Design standard: EN1171;
2. Face to face: EN558-1;
3. Flanges standard: EN1092-2:1997;
4. Tests standard: EN12266-1.

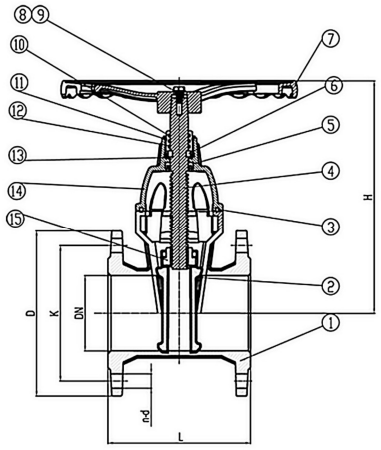
NO.	Name	QTY.	Material
1	Disc	1	GGG50
2	Disc Sealing Ring	2	CuZn39Pb1/Stainless Steel
3	Body Sealing Ring	2	CuZn39Pb1/Stainless Steel
4	Body	1	GGG50
5	Stem	1	2Cr13
6	Bonnet Gasket	1	EPDM
7	O-ring	1	EPDM
8	O-ring	3	EPDM
9	Gland	1	GGG50
10	Support	1	GGG50
11	Stem nut	1 pair	CuZn39Pb1
12	Handwheel	1	GGG50
13	Support Gakets	2	2Cr13
14	Sealing Gakets	3	PVC-u
15	Bolts	6	SS 304
16	Bonnet	1	GGG50
17	Studs	2	SS 304
18	Washers	10	SS 304
19	Nuts	10	SS 304

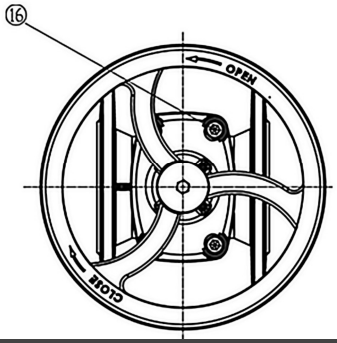
Main Technical Parameters

DN	DN50 - 300	
PN	1.0Mpa/1.6Mpa	
Test pressure	Strength	1.5 Mpa/2.4 Mpa
	Seal up	1.1 Mpa/1.8 Mpa
Temperature	0-80°C	
Medium	Clear, Sewage, Air	
Drive form	Handwheel	

Standard	DN	L	Øh	H	ØD PN10/16	ØA PN10/16	B	ØK	N-Øh PN10/16
BS5163/GB12221	50	178	200	267	165	125	19	99	4-Ø19
DIN-F4		150					18		
BS5163/GB12221	65	190	200	316	185	145	19	118	4-Ø19
DIN-F4		170					18		
BS5163/GB12221	80	203	200	338	200	160	19	132	8-Ø19
DIN-F4		180					20		
BS5163/GB12221	100	229	254	409	220	180	19	156	8-Ø19
DIN-F4		190					20		
BS5163/GB12221	125	254	254	486	250	210	19	184	8-Ø19
DIN-F4		200					22		
BS5163/GB12221	150	267	315	573	285	240	19	211	8-Ø23
DIN-F4		210					22		
BS5163/GB12221	200	292	315	701	340	295	20	266	8-Ø23/12-Ø23
DIN-F4		230					24		
BS5163/GB12221	250	330	406	843	395/405	350/355	22	319	12-Ø23/12-Ø28
DIN-F4		250					26		
BS5163/GB12221	300	356	406	984	445/460	400/410	24.5	370	12-Ø23/12-Ø28
DIN-F4		270					28		

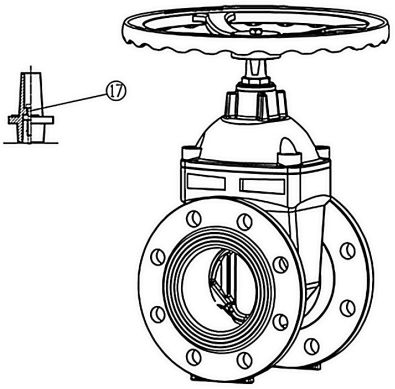
Realient Gate Valve - Brass Nut Type (GVF110)





REFERENCE STANDARD	
DESIGN	EN 1171, EN1074-2
FLANGE	EN 1092-2,AS2638 ASM B16,1/16,42

Item	Part Name	Material	Standard
1	BODY	DUCTILE IRON	DIN 1693
2	DISC	DUCTILE IRON+EPDM	DIN 1693
3	BONNET	EPDM	IOS 4633
4	STEM	SS304	EN12167
5	U RING	NBR	DIN 1693
6	HOLDING RING	CuZn39Pb1	ASTM A959
7	HANDWHEEL	DUCTILE IRON	ASTM A959
8	BOLTES	SS316	IOS 4633
9	WASHER	SS316	IOS 4633
10	ORING	NBR	EN12167
11	ORING	NBR	IOS 9988-1
12	THRUST NUT	CuZn39Pb1	EN12167
13	THRUST WASHER	POM	IOS 9988-1
14	BONNET	DUCTILE IRON	DIN 1693
15	STEM NUT	CuZn39Pb1	EN 12167
16	BOLTS	SS316	EN10083-2/ASTM A29
17	SQUARE CAP	DUCTILE IRON	DIN 1693



DN	OUTLINE mm					H
	BS5163	DIN-F4	DIN-F5	ASME B16.10	AS2638	
	L					
40	165	140	240	-	-	215
50	178	150	250	178	-	215
65	190	170	270	190	-	255
80	203	180	280	203	203	268
100	229	190	300	229	229	310
125	254	200	325	254	-	348
150	267	210	350	267	267	400
200	292	230	400	292	292	505
250	330	250	450	330	300	590
300	356	270	500	356	356	675

END Flange PIPE PN10/16-CL125/150mm								
EN 1092-2			ASME B16.1/B16.42			AS4087		
D	k	n-d	D	k	n-d	D	-	n-d
150	110	4-Ø19	127	98.5	4-Ø16	-	-	-
165	125	4-Ø19	152	120.5	4-Ø19	-	-	-
185	145	4-Ø19	178	139.5	4-Ø19	-	-	-
200	160	8-Ø19	191	152.5	4-Ø19	185	146	4-Ø18
220	180	8-Ø19	229	190.5	8-Ø19	215	178	4-Ø18
250	210	8-Ø19	254	216	8-Ø22	-	-	-
285	240	8-Ø23	279	241.5	8-Ø22	280	235	8-Ø18
340	295	8-Ø19/12-Ø23	343	298.5	8-Ø22	335	292	8-Ø18
395/405	350/335	12-Ø23/12-Ø28	406	362	12-Ø25	405	356	8-Ø22
445/460	400/410	12-Ø23/12-Ø28	483	432	12-Ø25	455	406	12-Ø22

DIN3202 PN10/PN16 (GVU101)

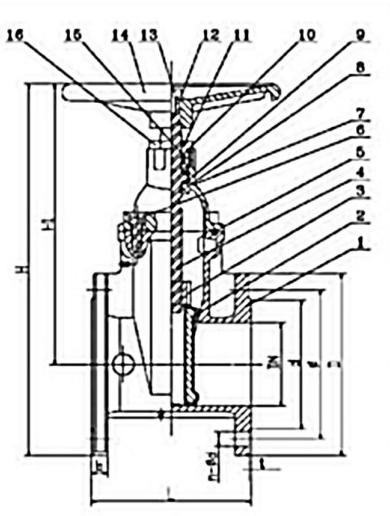
Non-rising Stem Flanged joint Ends Resillint Wedge gate valves

- DIN 3202 PN10/ PN16

- Bolted Bonnet, Non-Rising Stem, Rrsilient Wedge, Flanged Ends

- CONFORMS TO DIN 3202

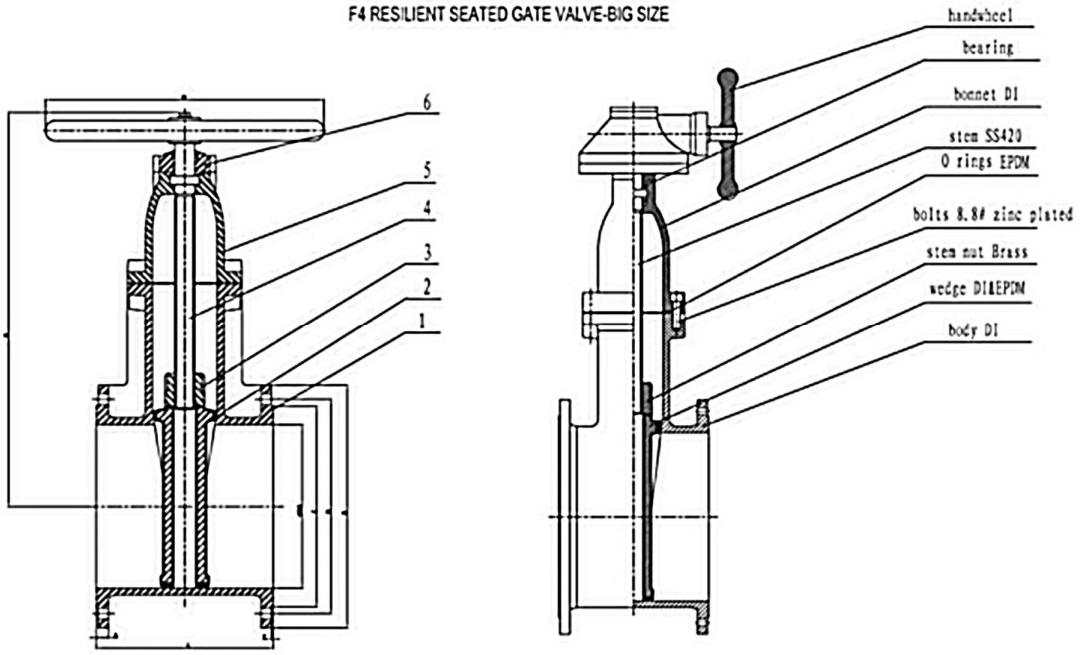
- Freezing Weather Precaution Subsequent to testing a piping system, Valves should be in an open position to allow complete drainage.



MATERIAL LIST		
NO	PART	SPECIFICATION
1	Valve Body	Ductile Iron GGG 50/40
2	Resilient Wedge	Ductile Iron GGG 50/40 + EPDM
3	Wedge Nut	Bronz C6680
4	Stem	Stainless Steel 316
5	Bonnet Gasket	EPDM
6	Bonnet Screw	Alloy Steel ASTM 45#
7	Bonnet	Ductile Iron GGG 50/40
8	Stem Primary O-Ring	EPDM
9	Stem Thrust Washer	Nylon 1010
10	Gland Seal O-Ring	EPDM
11	Stem Ring Wiper	EPDM
12	Operating Nut Washer	Carbon Steel Zinc Plated
13	Operating Nut Screw	Carbon Steel Zinc Plated 45#
14	Handwheel	Carbon Steel ST12
15	Stem Primary O-Ring	EPDM
16	Stem Seal Bushing	Brass MS 58

DN	PN	L		n-Ød	D	Ø	d	b	t	H1	H	G
		F4	F5									
50	10	150	250	4-Ø19	165	125	98	19	3	335	253	Ø200
	16											
65	10	170	270	4-Ø19	185	145	118	19	3	376	284	Ø200
	16											
80	10	180	280	4-Ø19	200	160	133	19	3	420	320	Ø250
	16			8-Ø19								
100	10	190	300	8-Ø19	220	180	153	19	3	453	343	Ø288
	16											
125	10	200	325	8-Ø19	250	210	183	19	3	533	408	Ø350
	16											
150	10	210	350	8-Ø23	285	240	209	19	3	567	425	Ø350
	16											
200	10	230	400	8-Ø23	340	295	264	20	3	700	530	Ø380
	16			12-Ø23								
250	10	250	450	12-Ø23	400	350	319	22	3	821	621	Ø450
	16			12-Ø28		355						
300	10	270	500	12-Ø23	455	400	367	24.5	4	930	703	Ø500
	16			12-Ø28		410						
350	10	290	550	16-Ø23	520	460	429	26.5	4	1097	841	Ø500
	16			16-Ø28		470						
400	10	310	600	16-Ø28	580	515	480	28	4	1199	922	Ø500
	16			16-Ø31		525						
450	10	330	650	20-Ø29	640	565	550	30	4	1342	1022	Ø500
	16			20-Ø31		585						
500	10	350	700	20-Ø29	715	620	609	31.5	4	1535	1177	Ø500
	16			20-Ø35		650						
600	10	390	800	20-Ø32	840	725	682	36	5	1799	1379	Ø500
	16			20-Ø37		770						

F4 resilient Seated Gate Valve - Big Size
YC - DIN - 10/16 - (700 - 800) (GVF108)



Material

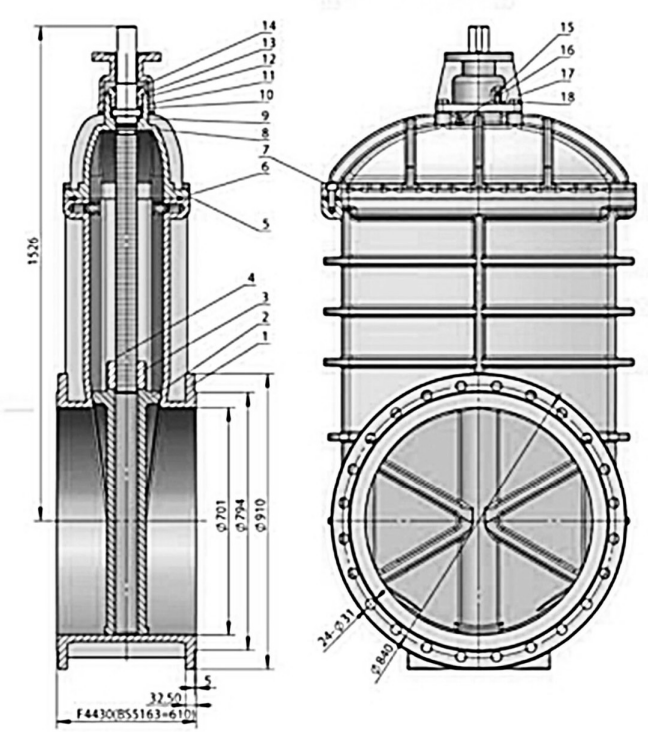
Item	Part	Material
1	Body	DI GGG50/40
2	Wedge	DI GGG50/40 + EPDM
3	Stem Nut	Brass MS 58

Item	Part	Material
4	Stem	SS420
5	Bonnet	DI GGG50/40
6	Gland	DI GGG50/40

Dimentions (mm) PN10/PN16 DIN 3352

DN	L		H	C	M	D	b	f	w	n-d
	F4	F5								
700	430	900	1545	800	840	910	38.5	5	960	24 - 37

YC - B101/D101 - 10 - 700 - 00Q (GVF108)



Index	Drawing No.	Name	Quan.	Material
1	YC - B101/D101-10-700-01	Body	1	Ductile Iron GGG 50/40
2	YC - B101/D101-10-700-02	Wedge	1	Ductile Iron GGG 50/40+EPDM
3	YC - B101/D101-10-700/800-03	Stem Nut	1	C83600
4	YC - B101/D101-10-700-040	Stem	1	1Cr13
5	YC - B101/D101-10-700-05	Bonnet	1	Ductile Iron GGG 50/40
6	YC - B101/D101-10-700-06	Gasket	1	EPDM
7	GB/T70. 1-2000 M20X55	Bolt	20	8.8
8	GB/T3452. 1-1992 Ø67X3.55	O Ring	2	EPDM
9	YC - B101/D101-10-700-07	Lower Bushing	1	C83600
10	YC - B101/D101-10-700/800-08	Gasket	1	C83600
11	YC - B101/D101-10-700/800-09	Bush	1	ZCuZN40Pb2
12	GB/T3452. 1-1992 Ø71X3.55	O Ring	2	EPDM
13	GB/T3452. 1-1992 Ø106X5	O Ring	1	EPDM
14	YC - B101/D101-10-700/800-10	Dust Ring	1	EPDM
15	GB/T879 - 1986 3X15	Cylindrical Pin	1	SS316
16		Bleed Screw Seat	1	ZCuZN38 GB1176
17	YC - B101/D101-10-700/800-11	Connection Panel	1	Ductile Iron GGG 50/40
18	GB/T5781 - 2000 M20X50	Bolt	4	8.8

UL/FM Rising Stem Flanged Joint Ends Resilient Wedge Gate Valve (F907)

AWWA C509 250PSI/300PSI

Materiallist		
No	Part	Specification
1	Valve Body	EPDM Ductile Iron ASTM A 536
2	Wedge	Ductile Iron ASTM A 536+ASTM D2000
3	Wedge Nut	CuSn5Zn5Pb5 Bronze ASTM B 584
4	Dowel Pin	S420 Stainless Steel ASTM A 276
5	O-Ring	EPDM Rubber ASTM D 2000
6	Stem	Stainless Steel SS304
7	Bonnet Gasket	EPDM Rubber ASTM D 2000
8	Socket Head Cap Screw	CS ASTM A307
9	Bonnet	Ductile Iron ASTM A 536
10	Stuffing	EPDM Rubber ASTM D 2000
11	Threaded	CS ASTM A307
12	Stuffing Bushing	CuSn5Zn5Pb5 Bronze ASTM B 584
13	Stuffing Gland	Ductile Iron ASTM A 536
14	Nut	Brass ASTM B 16-H02
15	Socket Head Cap Screw	CS DIN 9021 B
16	Yoke	Ductile Iron ASTM A 536
17	Flat Head Screw	CS ASTM A307
18	Yoke Bush Retainer	HT200 Gray Iron ASTM A 126-B
19	Handwheel	Ductile Iron ASTM A 536
20	Stem Nut	CuSn5Zn5Pb5 Bronze ASTM B 584
21	Stem	ASTM B150 UNS C61400 Bronze ASTM B150 UNS C61400 SS304
22	Handwheel Nut	CS ASTM A194-2H
23	Pipe Plug	Malleable Iron ASME B16.14

Fire Protection Valve - Outide Screw and Yoke - Resilient wedge - Epoxy Coated Interior/Exterior - Pre-Grooved Stem for Supervisory Switch - Driiled, Tapped and Plugged at Boss Location A **

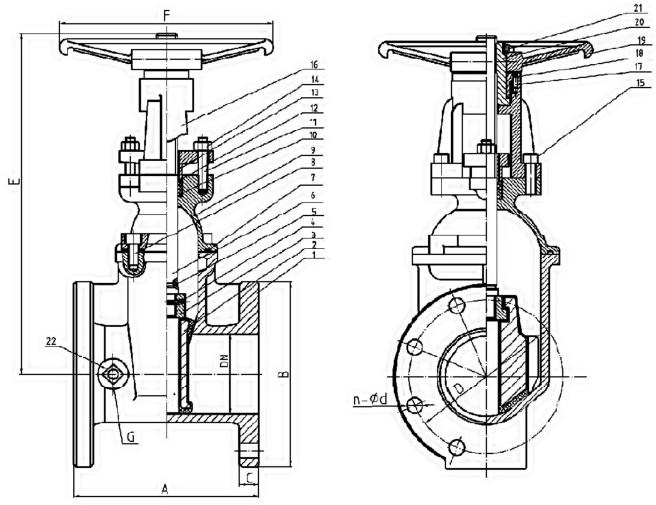
250PSL/300PSL Bar Non-Shock cold Working Pressure (160ºF / 71ºC max Operating temperature)

- CONFORMS TO AWWA C509
- Flange ends conform to ASME B16.1 Class 125

Electrostatically applied fusion-bonded epoxy coated inside and outside per AWWAC-550.

Drilled, Tapped and plugged at Position G with 1/2″ Valve sizes 21/2″-4″, 3/4″ on6″ - 8″, 1 on10″ - 12″

UL/FM AWWA C509

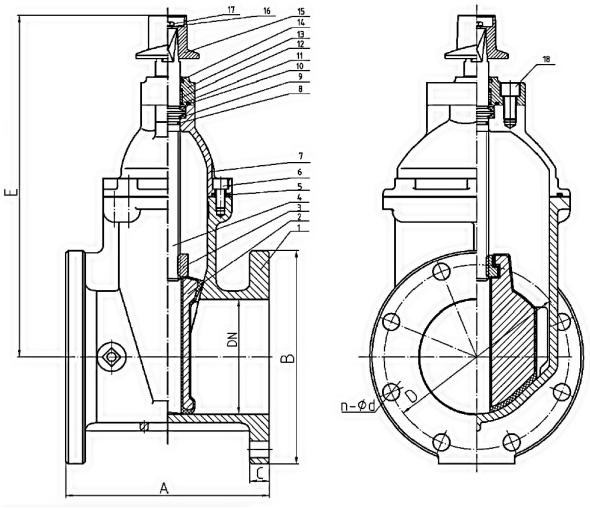


FREEZING WEATHER PRECAUTION : SUBSEQUENT TO TESTING A PIPINGSYSTEM, GATE VALVE SHOULD BE IN AN OPEN POSITION TO ALLOW COMPLETE DRAINAGE.

DIMENSION - WEIGHTS - QUANTITYS

SIZE		A		B		C		D		E OPEN		E CLOSE		n	Ød		F		Turns to open	Weight	
IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM		IN	MM	IN	MM		LBS	KG
2″	50	7	178	5.98	152	0.63	16	4.74	120.5	17.2	437	15.2	384	4	3/4	19	7.87	200	6.3	44	20
2.5″	65	7.5	190	7	178	0.69	17.5	5.5	140	18.8	478	16.2	411	4	3/4	19	7.87	200	8.1	47	21.2
3″	80	7.99	203	7.52	191	0.75	19	6	152.5	20.3	515	17.1	434	4	3/4	19	7.87	200	10	51	23.3
4″	100	9	229	9.02	229	0.94	24	7.5	190.5	22.1	562	18.2	462	8	3/4	19	10.24	260	10	76	34.6
6″	150	10.5	267	11	279	1	25.4	9.5	241.5	29.4	747	23.5	597	8	7/8	23	12.4	315	15	134	61
8″	200	11.5	292	13.5	343	1.13	28.6	11.75	298.5	36.8	934	28.6	727	8	7/8	23	14.76	375	16.7	226	102.5
10″	250	12.99	330	15.98	406	1.19	30.2	14.25	362	45.2	1147	35.1	891	12	1	26	16.38	416	20.8	329	149.5
12″	300	14	350	19	483	1.26	32	17	432	52.2	1326	40.2	1020	12	1	26	17.5	445	25	487	221.2
14″	350	15	381	20.98	533	1.38	35	18.74	476	62.7	1592	48.3	1226	12	1-1/8	29	19.7	500	43.8	709	322
16″	400	15.98	406	23.5	597	1.46	37	21.2	539.5	66.2	1682	50.7	1288	16	1-1/8	29	19.7	500	50	914	415

AWWA C509 UL LISTED NON-RISING STEM FLANGED JOINT ENDS RESILIENT WEDGE GATE VALVE (FX909)



FREEZING WEATHER PRECAUTION : SUBSEQUENT TO TESTING A PIPING SYSTEM, GATE VALVE SHOULD BE IN AN OPEN POSITION TO ALLOW COMPLETE DRAINAGE.

Materiallist		
No	**Part**	**Specification**
1	Valve Body	Ductile Iron ASTM A 536
2	Wedge	Ductile Iron ASTM A 536+EPDM ASTM D2000
3	Wedge Nut	Bronze ASTM B 584
4	Stem	Stainless Steel SS304
5	Bonnet Gasket	EPDM Rubber ASTM D 2000
6	Socket Head Cap Screw	Zinc plated carbon steel
7	Bonnet	Ductile Iron ASTM A 536
8	O-Ring	EPDM Rubber ASTM D 2000
9	Washer, Stem Thrust	Bronze ASTM B 584 UNS C83600
10	O-Ring	EPDM Rubber ASTM D 2000
11	O-Ring	EPDM Rubber ASTM D 2000
12	Bushing, Stem Seal	Bronze ASTM B 584 UNS C83600
13	Gland	Ductile Iron ASTM A 536
14	Ring Wiper	EPDM Rubber ASTM D 2000
15	Cap	Gray Iron ASTM A 126-B
16	Washer	Zinc plated carbon steel
17	Head Cap Screw	Zinc plated carbon steel
18	Socket Head Cap Screw	Zinc plated carbon steel

AWWA C509 250PSI/300PSI

FX909 Non-Rising Flanged Joint Ends Resilient Wedge Gate Valve

Electrostatically applied fusion-bonded expoy coated inside and outside meet AWWA C550

Drilling, Tapping and plugging, The 12.5 diameter hole is on the DN65-DN100 valve, The diameter 20mm is on DN150-DN200, And the 25mm is on DN250-DN300.

Drillied, Tapped and plugged at position A with 1/2″ valve sizes 21/2″-4″, 3/4″ on 6″-8″, 1″ on 10″-12.

Fire Protection Valve, Non-rising stem, Resilient wedge, Epoxy coated interior/ exterior drilled, Tapped and plugged at boss location G;
250PSI/300PSI Non-Shock cold working pressure (160°F/71°C Max Operating temperature);
Conforms to AWWA C509
Flange ends conform to ASME B16.1 Class125;

DIMENSION - WEIGHTS - QUANTITY

SIZE		A		B		C		D		E		n	Ød		Turns to open	Weight	
IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM		IN	MM		LBS	KG
2″	50	7	178	5.98	152	0.63	16	4.74	120.5	10.7	272.5	4	3/4	19	6.3	29	13
2.5″	65	7.5	190	7	178	0.69	17.5	5.5	140	11.6	294.5	4	3/4	19	8.1	33	15
3″	80	7.99	203	7.52	191	0.75	19	6	152.5	12.8	324.5	4	3/4	19	10	42	19
4″	100	9	229	9.02	229	0.94	24	7.5	190.5	13.9	353.5	8	3/4	19	12.5	58	26.5
6″	150	10.5	267	11	279	1	25.4	9.5	241.5	17.6	447.5	8	7/8	23	15	110	50
8″	200	11.5	292	13.5	343	1.13	28.6	11.75	298.5	20.8	528.5	8	7/8	23	16.7	183	83
10″	250	12.99	330	15.98	406	1.19	30.2	14.25	362	24.4	619	12	1	26	20.8	286	130
12″	300	14	356	19	483	1.26	32	17	432	27.8	707	12	1	26	25	430	195
14″	350	15	381	20.98	533	1.38	35	18.74	476	31.8	808	12	1-1/8	29	43.8	610	277
16″	400	15.98	406	23.5	597	1.46	37	21.2	539.5	34.2	869	16	1-1/8	29	50	824	374