



Stone Valve Group Limited



Lodging



Greening



Automation



Processing

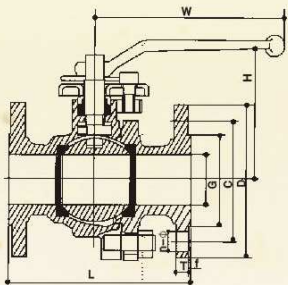


Warehouse



Testing

Stone Valve
China valve Manufacturers
www.stone-valve.com



Main Parameter Specification

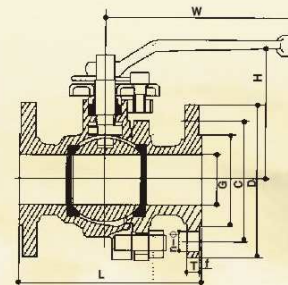
1.Design and Manufacture	ANSI B16.1
2.Face to Face	ANSI B16.10
3.Flange End Dimensions	BS4504
4.Working Pressure	150psi Steam, Basic Rating 200psi Cold Working Pressure
5.Pressure Test	API598

Main Parts and Materials

Number	Part Name	Material
1	Body	Grey Cast Iron (ASTM A126-B)
2	Bonnet	Grey Cast Iron (ASTM A126-B)
3	Nut	Carbon Steel (ASTM A307)
4	Bolting	Carbon Steel (ASTM A307)
5	Ball	Stainless Steel (A182 F304)
6	Seat	PTFE
7	Gasket	PTFE
8	Stem	Stainless Steel (A182 F304)
9	Stem Packing	PTFE
10	Gland Flange	Grey Cast Iron (ASTM A126-B)
11	Gland Bolt	Carbon Steel (ASTM A307)
12	Stop Collar	Carbon Steel
13	Lever	Steel
14	Circlip	Carbon Steel

Main Dimensions

Nominal diameter	Pressure	L	C	D	G	T	n-φ	W	H	
In	mm									
1/2"	15	150LB	108	89	60.5	35	12	4-5	115	72
3/4"	20	150LB	117	98	70	43	12	4-15	115	76
1"	25	150LB	127	108	79.5	51	12	4-15	150	92
1 1/2"	40	150LB	165	127	98.5	73	14.3	4-16	200	123
2"	50	150LB	178	152	120.5	92	15.9	4-19	200	132
2 1/2"	65	150LB	190	178	139.5	105	17.5	4-19	320	164
3"	80	150LB	203	190	152.4	127	19.1	4-19	320	173
4"	100	150LB	229	229	190.5	157	23.9	8-19	450	210
6"	150	150LB	394	279	241.5	216	26	8-22	800	288
8"	200	150LB	457	343	298.5	270	29	8-22	1120	374
10"	250	150LB	533	406	362	324	31	12-25	1420	366
12"	300	150LB	610	483	432	381	32	12-25	1420	412



Main Parameter Specification

1.Design and Manufacture	JIS B2002
2.Face To Face	JIS B2002 Series 6
3.Flange End Dimensions	JIS B2212-1999

Nominal pressure 10K

Test Pressure	Shell(Water)	Mpa	2.4
	Seat(Air)		0.8

Main Parts and Materials

Number	Part Name	Material
1	Body	Cast iron (FC200 or FCD400)
2	Bonnet	Cast iron (FC200 or FCD400)
3	Ball	Stainless Steel (SUS304)
4	Seat	PTFE
5	Gasket	PTFE
6	Stem	Stainless Steel (SUS304)
7	Stem Packing	PTFE
8	Gland Flange	Cast Iron (FC200 or FCD400)
9	Lever	Ductile Iron (FCD400)
10	Nut	Carbon Steel
11	Bolting	Carbon Steel

Main Dimensions

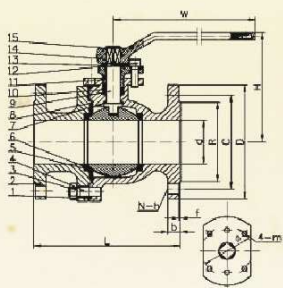
Nominal diameter	Pressure	L	C	D	G	T	n-φ	W	H	
In	mm									
1/2"	15	10-K	4.25	3.5	2.38	1.38	0.47	4-0.59	4.53	28.3
3/4"	20	10-K	4.61	3.86	2.76	1.69	0.47	4-0.59	4.53	29.9
1"	25	10-K	5	4.25	3.13	2	0.47	4-0.59	5.9	3.62
1 1/2"	40	10-K	6.5	5	3.88	2.88	0.56	4-0.62	7.87	4.84
2"	50	10-K	7	6.00	4.75	3.62	0.625	4-0.75	7.87	5.20
2 1/2"	65	10-K	7.5	7	5.50	4.12	0.69	4-0.75	12.6	6.45
3"	80	10-K	8	7.50	6	5	0.75	4-0.75	12.6	6.8
4"	100	10-K	9	9	7.5	6.19	0.94	8-0.75	17.72	8.26
6"	150	10-K	15.5	10.98	9.50	8.5	1.02	8-0.88	31.5	1.34
8"	200	10-K	18.00	13.50	11.75	10.62	1.12	8-0.88	44.10	14.72
10"	250	10-K	20.98	16	14.75	12.75	1.2	12-1	55.12	14.40
12"	300	10-K	24	19	17	15	1.26	12-1	55.12	16.22



Main Parameter Specification	
1.Design and Manufacture	DIN3357
2.Face to Face	DIN3202 DN15-DN100 (F4) DN125-DN250 (F5)
3.Flange End Dimensions	DIN2533
4.Nominal Pressure	1.6Mpa
5.Pressure Test	DIN3230

Main Parts and Materials		
Number	Part Name	Material
1	Body	Grey Cast Iron (GG25 or GGG40)
2	Bonnet	Grey Cast Iron (GG25 or GGG40)
3	Nut	Carbon Steel
4	Bolt	Carbon Steel
5	Ball	Stainless Steel (X10CR13)
6	Seat	PTFE
7	Washer	PTFE
8	Gasket	PTFE
9	Stem	Stainless Steel (X10CR13)
10	Stem Packing	PTFE
11	Gland	Grey Cast Iron (GG25 or GGG40)
12	Gland Bolt	Carbon Steel
13	Stop Collar	Carbon Steel
14	Lever	Ductile Iron (GGG40)

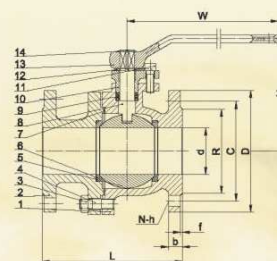
Main Dimensions												
DN	d	L	H	W	R	C	D	b	N-b	f	D	4-m
15	15	115	78	130	45	65	95	14	4-φ14	2	36	M6
20	20	120	113	160	58	75	105	16	4-φ14	2	36	M6
25	25	125	107	160	68	65	115	16	4-φ14	2	42	M6
32	32	130	113	160	78	100	140	18	4-φ18	2	42	M6
40	40	140	130	250	88	110	150	18	4-φ18	3	50	M8
50	50	150	146	250	102	125	165	20	4-φ18	3	70	M8
65	65	170	176	350	122	145	185	20	4-φ18	3	102	M10
80	80	180	222	350	138	160	200	22	8-φ18	3	102	M10
100	100	190	222	400	158	180	220	24	8-φ18	3	125	M12
125	125	325	257	600	188	210	250	26	8-φ18	3	125	M12
150	150	350	275	600	212	240	285	26	8-φ23	3	140	M16
200	200	400	400	600	268	295	340	30	12-φ23	3	140	M16



Main Parameter Specification	
1.Design and Manufacture	ANSI B16.1
2.Face to Face	ANSI B16.10
3.Flange End Dimensions	BS4504
4.Working Pressure	150psi Steam, Basic Rating 200psi Cold Working Pressure
5.Pressure test	API598

Main Parts and Materials		
Number	Part Name	Material
1	Body	Grey Cast Iron (ASTM A126-B)
2	Bonnet	Grey Cast Iron (ASTM A126-B)
3	Nut	Carbon Steel (ASTM A307)
4	Bolt	Carbon Steel (ASTM A307)
5	Ball	Stainless Steel (A182 F304)
6	Seat	PTFE
7	Gasket	PTFE
8	Stem	Stainless Steel (A182 F304)
9	Stem Packing	PTFE
10	Gland Flange	Grey Cast Iron (ASTM A126-B)
11	Gland Bolt	Carbon Steel (ASTM A307)
12	Stop Collar	Carbon Steel
13	Lever	Steel

Main Dimensions												
Size (inch)	DN	d	L	H	W	R	C	D	b	N-h	f	
1/2	15	15	108	78	130	45	65	95	14	4-φ14	2	
3/4	20	20	117	113	160	58	75	105	16	4-φ14	2	
1 "	25	25	127	107	160	68	85	115	16	4-φ14	2	
1 1/4	32	32	140	113	160	78	100	140	18	4-φ18	2	
1 1/2	40	40	165	130	250	88	110	150	18	4-φ18	3	
2 "	50	50	178	146	250	102	125	165	20	4-φ18	3	
2 1/2	65	65	191	176	350	122	145	185	20	4-φ18	3	
3 "	80	80	203	222	350	138	160	200	22	8-φ18	3	
4 "	100	100	229	222	400	158	180	220	24	8-φ18	3	
5 "	125	125	356	250	500	188	210	250	26	8-φ18	3	
6 "	150	150	394	275	600	212	240	285	26	8-φ22	3	
8 "	200	200	457			268	295	340	30	12-φ22	3	

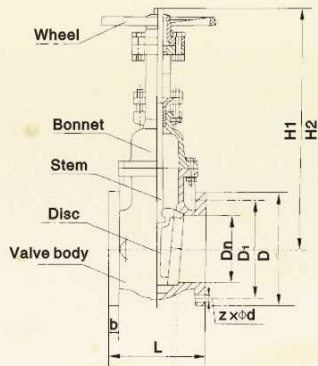




Application	
1	Design According to ANSIB16.1 Class 125/Class 150
2	Flange End Face to ANSI B16.1 Class 125/Class 150
3	For water,neutral liquids and oil,gas

Main Parts and Materials		
Number	Part Name	Material
1	Body	Grey Iron A126-B
2	Disc	Ductile Iron /A536
3	Trim	SS304
4	Sealing	Stainless Steel/Brass
5	Handwheel	Ductile Iron /A536

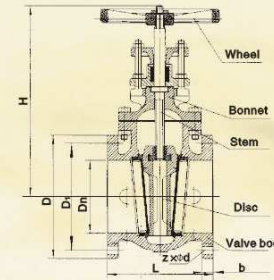
Outling and connect measurement									
Type	Nominalφ (IN)	Measurement (mm)							
		DN	L	D	D1	B	Z × φ d	H1	H2
Rising Gate Valve	2"	50	177.8	152	120.7	15.9	4 × φ19	318	375
	2.5"	65	190.5	178	139.5	17.5	4 × φ19	338	408
	3"	80	203.2	190	152.5	19.1	4 × φ19	353	442
	4"	100	228.6	229	190.5	23.9	8 × φ19	433	545
	5"	125	254	254	216	23.9	8 × φ22	516	656
	6"	150	266.7	279	241.5	25.4	8 × φ22	603	770
	8"	200	292.1	343	298.5	28.6	8 × φ22	737	959
	10"	250	330.2	406	362	30.2	12 × φ25	979	1255
	12"	300	355.6	483	432	31.8	12 × φ25	1115	1443
	14"	350	381	533	476	35	12 × φ29	1346	1727

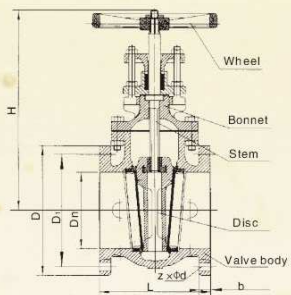


Application	
1	Design According to ANSI B16.1 Class 125/Class 150
2	Flange End Face to ANSI B16.10 Class 125/Class 150
3	For water,neutral liquids and oil,gas

Main Parts and Materials		
Number	Part Name	Material
1	Body	Grey Iron /A126-B
2	Disc	Ductile Iron /A536
3	Trim	SS304
4	Sealing	Stainless Steel/Brass
5	Handwheel	Ductile Iron /A536

Outling and connect measurement								
Type	Nominalφ (IN)	Measurement (mm)						
		DN	L	D	D1	B	Z × φ d	H
N-RS Gate Valve	2"	50	177.8	152	120.65	15.9	4 × φ19	287.27
	2.5"	65	190.5	178	139.7	17.5	4 × φ19	304.8
	3"	80	203.2	190	152.5	19.1	4 × φ19	336.55
	4"	100	228.6	229	190.5	23.9	8 × φ19	414.27
	5"	125	254	254	215.9	23.9	8 × φ22	457.2
	6"	150	266.7	279	241.3	25.4	8 × φ22	525.53
	8"	200	292.1	343	298.45	28.6	8 × φ22	612.65
	10"	250	330.2	406	361.95	30.2	12 × φ25	
	12"	300	355.6	483	431.8	31.8	12 × φ25	



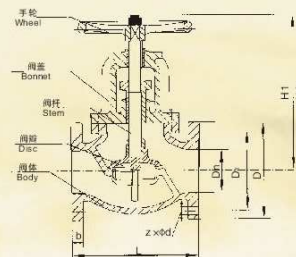


Application	
1	Design According to JIS-10K
2	Flange End Face to JIS B2212

Test	
Working pressure	10K
Shell pressure	21.1Kg/cm ²
Seat pressure	15.0Kg/cm ²

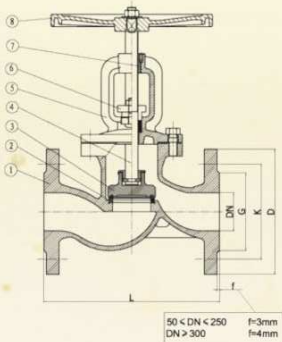
Main Parts and Materials		
Number	Part Name	Material
1	BODY	Grey Iron /FC200
2	DISC	Ductile Iron /FCD400
3	TRIM	SS304
4	SEALING	Stainless Steel/Brass
5	BONNET	Grey Iron /FC200
6	HANDWHEEL	Ductile Iron /FCD400

Outling and connect measurement				
DN	L	H	D	g
50	180	267	155	150
65	190	280	175	170
80	200	300	185	190
100	230	405	210	220
125	250	460	250	235
150	270	560	280	295
200	290	705	330	335
250	330	880	400	380
300	370	1100	445	430



Main Parts and Materials		
Number	Part Name	Material
1	Valve Body Bonnet	Grey Iron/A126-B
2	Disc	Grey Iron/A126-B
3	Sealing Face	Stainless Steel/Brass
4	Stem	ST · ST416
5	Wheel	Dultile Iron

Outling and connect measurement									
Type	Nominal Dn (mm)	Measurement (mm)							Weight (kg)
		DN	L	D	D1	B	Z-φD	H1	
Globe Valve	2"	50	203	152	120.7	15.9	4-φ19	279	257
	1 22"	65	216	178	139.5	17.5	4-φ19	298	273
	3"	80	240	190	152.5	19.1	4-φ19	333	305
	4"	100	292	229	190.5	23.9	8-φ19	391	352
	5"	125	330	254	216	23.9	8-φ22	438	406
	6"	150	355	279	241.5	25.4	8-φ22	491	448
	8"	200	495	343	298.5	28.6	8-φ22	641	568
	10"	250	622	406	362	30.2	12-φ25	775	680



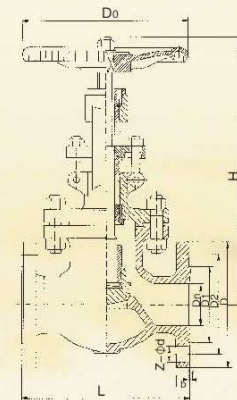
50 < DN < 250
DN > 300
h=3mm
h=4mm

Application	
1	Design According to DIN320-F32
2	Flange End DIN2532/2533
3	Nominal Pressure PN10/PN16

Test		
Working pressure		PN16
Test Pressure	Shell	15bars/24bars
	seat	11bars/17.6bars

Main Parts and Materials		
Number	Part Name	Material
1	Body	Cast Iron/GG25
2	Disc	Ductile Iron/GGG40
3	Seat	Stainless Steel/Brass
4	Handwheel	Ductile Iron/GGG40

Outling and connect measurement					
DN	L	D	K	G	N-d
50	230	165	125	102	4-φ18
65	290	185	145	122	4-φ18
80	310	200	160	138	4-φ18
100	350	220	180	158	4-φ18
125	400	250	210	188	8-φ18
150	480	285	240	212	8-φ23
200	600	340	295	268	12-φ23
250	730	405	355	320	12-φ27
300	850	460	410	378	12-φ27

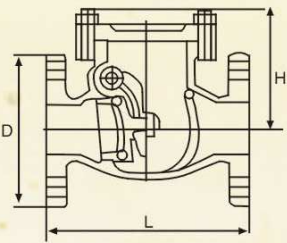


Application	
1	Face to Face is According to JIS B2002
2	Flange Drilled is According to JIS B2012

Test	
Working Pressure	10K
Test Pressure Shell	21.1Kgf/cm²
Seat	15.0Kgf/cm²

Main Parts and Materials		
Number	Part Name	Material
1	Body	Cast Iron (FC200)
2	Bonnet	Cast Iron (FC200)
3	Stem	Stainless Steel (SS416)
4	Disc	Cast Iron (FC200)
5	Seat Ring	Stainless Steel/Brass
6	Gland	Ductile Iron (FC200)
7	Packing	Not Asbestos
8	Handwheel	Cast Iron (FC200)

Outling and connect measurement									
DN		mm							
INCH	MM	L	D	C	R	B-F	Z-φd	H	Do
2"	50	203	152	120	100	18-2	4-19	270	200
2 1/2"	65	216	175	140	120	19-2	4-19	315	200
3"	80	240	185	150	130	20-2	4-19	365	220
4"	100	292	210	175	155	24-2	8-23	395	220
5"	125	330	250	210	185	25-2	8-23	445	220
6"	150	355	280	240	215	26-2	8-23	513	320
8"	200	495	330	290	265	30-2	12-23	770	400

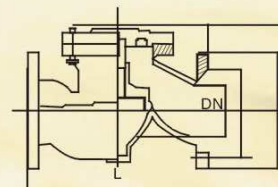


Standard
Design According to MSS · SP-71
Pressure/ Temperature Rating:ANSI B16.1
Face to Face Dimensions:ANSI B16.10
Flange End Dimensions:ANSI B16.1
Wall Thickness:ANSI B16.1
Valves Tested According to API 598

Working pressure
2" to 12" .125psi steam,Basic Rating 200psi Cold Working Pressure
14" to 24" .100psi Steam,Basic Rating 150psi Cold working Pressure

Main Parts and Materials		
Number	Part Name	Material
1	Body	Grey Iron/A126-B
2	Bonnet	Grey Iron/A126-B
3	Seat	Stainless Steel/Brass
4	Disc	Ductile Iron+Bronze
5	Hinge	Ductile Iron A536
6	Gasket	Graphite
7	Bolts	A307-B
8	Nuts	Brass B16
9	Washer	Brass B16
10	Pin	Stainless Steel
11	Hinge Pin	Brass B16
12	Gasket	Brass B16
13	Plug	Steel

Outling and connect measurement									
DN		mm							
INCH	MM	L	D	C	R	B-F	Z-?d	H	Do
2"	50	203	152	120.5	92	18-2	4-19	270	200
2 1/2"	65	216	178	139.5	105	19-2	4-19	315	200
3"	80	240	190	152.5	127	20-2	4-19	365	220
4"	100	292	229	190.5	157	24-2	8-19	395	220
5"	125	330	254	216	186	25-2	8-22	445	220
6"	150	355	279	241.5	216	26-2	8-22	513	320
8"	200	495	343	298.5	270	30-2	8-22	770	400

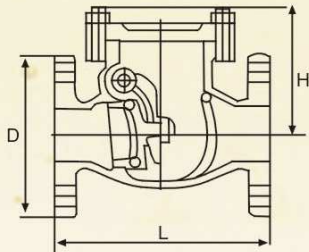


Application	
1	Face to Face is According to DIN3202-F1
2	Flang Drilled is According to DIN2532/2533

Test		
Working pressure	PN10	PN16
Shell Pressure	15bars	24bars
Seat Pressure	11bars	17.6bars

Main Parts and Materials		
Number	Part Name	Material
1	Body	Cast Iron/GG25
2	Bonnet	Cast Iron/GG20
3	Disc	Ductile Iron/GGG40
4	Seat	Stainless Steel/X5CrNi189

Outling and connect measurement					
DN	L	D	K	G	N-d
50	230	165	125	102	4-φ18
65	290	185	145	122	4-φ18
80	310	200	160	138	4-φ18
100	350	220	180	158	4-φ18
125	400	250	210	188	8-φ18
150	480	285	240	212	8-φ23
200	600	340	295	268	12-φ23
250	730	405	355	320	12-φ27
300	850	460	410	378	12-φ27

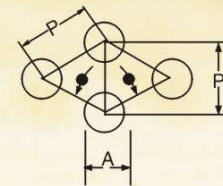
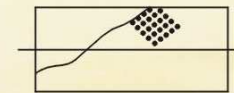
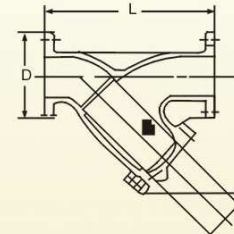


Application	
1	Face to Face is According to JIS B2002
2	Flange Drilled is According to JIS B2012

Test	
Working pressure	10K
Test Pressure Shell	21.1Kgf/cm ²
Seat	15.0Kgf/cm ²

Main Parts and Materials		
Number	Part Name	Material
1	Body	Cast Iron (FC200)
2	Bonnet	Cast Iron (FC200)
3	Disc	Cast Iron/Nbr (FC200)
4	Seat Ring	Stainless Steel/Brass
5	Hinge Pin	Stainless Steel (SS304)
6	Packing	Not Asbestos
7	Plug	Carbon Steel (SS41)

Outling and connect measurement								
DN		mm						
INCH	MM	L	D	C	R	B-F	Z-φd	H
2"	50	203	152	120	100	18-2	4-19	112
2 1/2"	65	216	175	140	120	19-2	4-19	127
3"	80	240	185	150	130	20-2	4-19	140
4"	100	292	210	175	155	24-2	8-23	154
5"	125	330	250	210	185	25-2	8-23	186
6"	150	355	280	240	215	26-2	8-23	208
8"	200	495	330	290	265	30-2	12-23	240



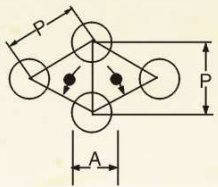
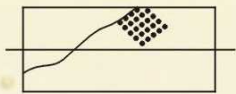
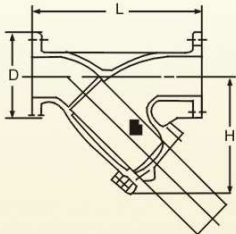
Application	
1	Face to Face is According to JIS-10K
2	Flange Drilled is According to JIS B2212

Test	
Working Pressure	10K
Test Pressure Shell	21.1kgf/cm ²

Screen Dimensions			
DN	A	P	Thickness
5" or smaller	↓ 1.5	2.5	0.5
6" & 8"	↓ 3.0	5.0	1.0
10" & larger	↓ 5.0	7.0	1.0

Main Parts and Materials		
Number	Part Name	Material
1	Body	Cast Iron (FC20)
2	Bonnet	Cast Iron (FC20)
3	Screen	Stainless Steel (SS304)
4	Drain Plug	Carbon Steel (SS41)

Main Dimensions				
DN	L	H	D	
50	250	168	155	
65	285	185	175	
80	315	200	185	
100	370	255	210	
125	420	295	250	
150	490	345	280	
200	570	425	330	
250	680	515	400	
300	800	600	450	



Main Parameter Specification

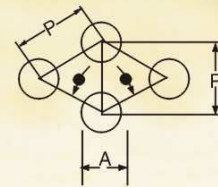
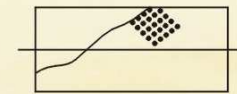
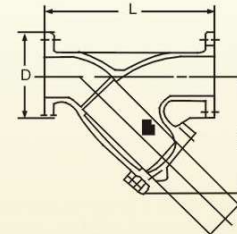
1.Design and Manufacture	ANSI B16.1
2.Flange End Dimensions	ANSI B16.10
4.Working Pressure	2 " to 12 " 125psi Steam,Basic Rating 200psi Cold Working Pressure 14 " to 18 " 125psi Steam,Basic Rating 200psi Cold Working Pressure

Main Parts and Materials

Number	Part Name	Material
1	Body	Grey Cast Iron (ASTM A126-B)
2	Screen	Stainless Steel (SS304)
3	Bolt	Carbon Steel (ASTM A307)
4	Plug	Steel
5	Bonnet	Grey Cast Iron (ASTM A126-B)
6	Gasket	Graphite

Main Dimensions

Size (inch)	DN (MM)	d		A		D		C		B	
		INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM
2	50	2	51	7.875	200	6	152	4.75	120.5	5.25	133
2 1/2	65	2.5	65	10	254	7	178	5.5	139.5	6.5	165
3	80	3	78	10.125	257	7.5	191	6	152.5	7.5	190
4	100	4	102	12.125	308	9	229	7.5	190.5	9	227
5	125	5	127	15.825	397	10	254	8.5	216	13.125	335
6	150	6	152	18.5	470	11	279	9.5	241.5	15.75	401
8	200	8	203	21.625	549	13.5	343	11.75	298.5	18	457
10	250	10	254	25.75	654	16	406	14.25	362	18.5	471
12	300	12	305	30	759	19	483	17	432	22	557
14	350	14	356	33.25	846	21	533	18.75	478	28.625	727
16	400	16	406	38.75	984	23.5	597	21.25	539.5	30	762
18	450	18	457	43.12	1095	25	635	22.75	578	31	788



Main Parameter Specification

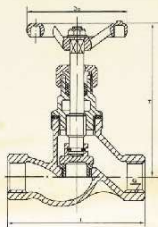
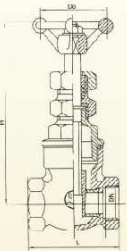
1.Face to Face	DIN3202-F1
2.Flange End Dimensions	DIN2531-PN6/DIN2533-PN18
3.Working Pressure	PN6/PN10/PN16
Shell Pressure	PN9/PN15/PN24
Seat Pressure	PN7.6/PN11/PN17.6

Main Parts and Materials

Number	Part Name	Material
1	Body	Grey cast Iron (GG25)
2	Screen	Stainless steel (SS304)
3	Bolte	Galvanized Steel
4	Plug	Steel
5	Bonnel	Grey Cast Iron (GG25)
6	Gaskel	Graphite

Main Dimensions

DN (MM)	A	B	D	C	N-h
	MM	MM	MM	MM	-
15	130	75	95	65	4-φ14
20	150	75	105	75	4-φ14
25	160	90	115	85	4-φ14
32	180	90	140	100	4-φ18
40	200	110	150	110	4-φ18
50	230	120	165	125	4-φ18
65	290	140	185	145	4-φ18
80	310	170	200	160	8-φ18
100	350	220	220	180	8-φ18
125	400	260	250	210	8-φ18
150	480	300	285	240	8-φ22
200	600	360	340	295	12-φ22
250	730	440	405	355	12-φ26
300	850	525	460	410	12-φ26



SPEC				
Model		Z15T-10K	Z15W-10K	
Pressure		1.0		
Test	Shell	1.5		
	Seat	1.1		
Temp		≤200		
Media		WOG		

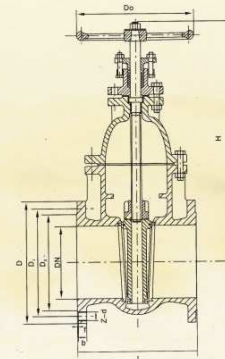
Material	
Body	Ductile Iron
Bonnet	Ductile Iron
Stem	Brass
Disc	Ductile brass
Sealing	Brass
Hand Wheel	Cast Iron

Outling and connect measurement					
DN	G	L	H	Do	
15	1/2"	65	113	63	
20	3/4"	70	115	63	
25	1"	80	135	70	
32	1-1/4"	90	150	70	
40	1-1/2"	100	180	85	
50	2"	110	205	105	
65	2-1/2"	130	240	120	
80	3"	135	240	120	
100	4"	160	300	140	

SPEC				
Model		Z15T-10K	Z15W-10K	
Pressure		1.6		
Test	Shell	2.4		
	Seat	1.75		
Temp		≤200 (其中F为150)		
Media		WOG		

Material				
Body, Bonnet	Trim	Disc	Seat	Hand Wheel
DI	Brass	Brass, DI	Brass SS	C.I

Outling and connect measurement					
DN	G	L	H	Do	
15	1/2"	90	112	63	
20	3/4"	100	123	63	
25	1"	120	132	70	
32	1-1/4"	140	152	70	
40	1-1/2"	170	165	85	
50	2"	200	178	105	
65	2-1/2"	260	192	105	



SPEC			
Model		Z45 _W -10, 10Q	
Pressure		1.0	
Test	Shell	1.5	
	Seat	1.1	
Temp		≤200	
Media		WOG	

Material						
Part Model	Body	Bonnet	Stem	Disc	Sealing	Hand Wheel
Z45 _W -10	CI	CI	SS	CI	Brass, SS	CI
Z45 _W -10Q	DI	DI	SS	DI	Brass, SS	CI

Outling and connect measurement									
DN	L	D	D1	D2	Z-d	H	Do	b	f
50	180	160	125	100	4-18	285	180	20	3
65	195	180	145	120	4-18	315	180	20	3
80	210	195	160	135	4-18	353	200	22	3
100	230	215	180	155	8-18	380	200	22	3
125	255	245	210	184	8-18	500	240	24	3
150	267	285	240	210	8-23	560	240	24	3
200	330	335	295	265	8-23	660	320	26	3
250	380	390	350	320	12-23	800	320	28	3
300	420	440	400	368	12-23	886	400	28	4
350	450	500	460	428	16-23	968	400	30	4
400	480	565	515	482	16-25	1090	500	32	4
450	510	615	565	532	20-25	1200	500	32	4
500	540	670	620	585	20-25	1380	600	34	4
600	600	780	725	685	20-30	1500	600	34	5