













NSV®
Industrial Valve Solutions

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Scan Code to Consult

NSV® NSV VALVE

Globe Valve

Globe valve is a linear motion valve whose disc moves perpendicularly to the seat to control cutting off and throttling of pipeline medium.



PRODUCT

NSV Valve Series

Design Feature

Design and manufacture: BS1873, ASME B16 34, API 602, DIN 3356
Face–to–Face dimension: ASME B16.10, BS 2080, ISO 5752, JIS B2002, DIN 3202.
Flanged End: ASME B16.5, JIS B2212, B2214, EN 1092–1.
Butt–weld ends: ASME B16.25; Socket weld ends: ASME B16.11; Threaded ends: ANSI B1.20.1.
Shell Wall Thickness: BS 1873, ASME B16.34.
Inspection and Test: API 598, BS EN 12266, ISO 5208, JIS B2003.

Casting Steel Material

Visual check for cast steel material includes: surface quality, dimension, chemical properties, mechanical performance, non–destructive testing to ensure that the comprehensive performance of raw materials comply with the relevant ASTM, BS, EN, JIS standards.

Body

The design provides the whole structure of low flow resistance channel structure，enables the body stiffness and strength to bear the nominal piping pressure and stress loading,the valve body wall thickness design complies with BS 1873 or ASME B16.34 with sufficient margin corrosion resistance for the medium.

Bonnet

Bonnet can be designed with a variety of seal structure of body connection to meet the needs of different operating conditions,the structure can be equipped to connect with Jacketed,flat,spiral wound or metal ring gasket,or pressure–seal valve bonnet for Calss 900/1500/2500.

Seat

Seat structure can be designed as per user requirements as a whole alloy steel materials pressed—in sealing structure,welding sealing,or screw connection in assembly. The austenitic stainless steel body material can be provided with integral seat.

Disc

Disc design applies conventional seal structure of rigid cone with plug–oriented，Plunger–seal structure,the pressure balance disc,large–sized valves can be provided with dual plates for easy operation.

Seat and other seal material

The choice of materials for the seat and other seal material can be as per API standard,or users design and manufacturing requirements.

Stem

The stem is wholly forged, its T–shape connecting end is of good stiffness and strength to ensure its safe use and reliability.The stem transmission bearing structure applies ACME trapezoidal thread to enable its up and down travel.

Backseat

All backseats are used on the valve seat seal design,they are replacable and for austenitic stainless steel material it can be integral backseat design.

Bonnet and Body seal structure

Class 150、300、600：spiral stainless steel and flexible graphite wound gasket Class 600, 900 and above：metal ring gasketChoice for bonnet and body seal can be based on the use of specific operating conditions(medium,medium temperature and pressure)

Stuffing box

Stuffing box is designed in accordance with relative standards with precise control of surfaoe finish in 32RMS below and its inner verticallty.

Packing gland/bushing

Packing gland/bushing are separate structure to ensure packing seal performance.

Stem Nut

Stem drive nut bearing structure is provided with sophisticated ACME trapezoidal thread. top entry connection design to the yoke,so even the valves are taken off the handwheel at service,the locking device can be ensured to be at original position and working.

Operator

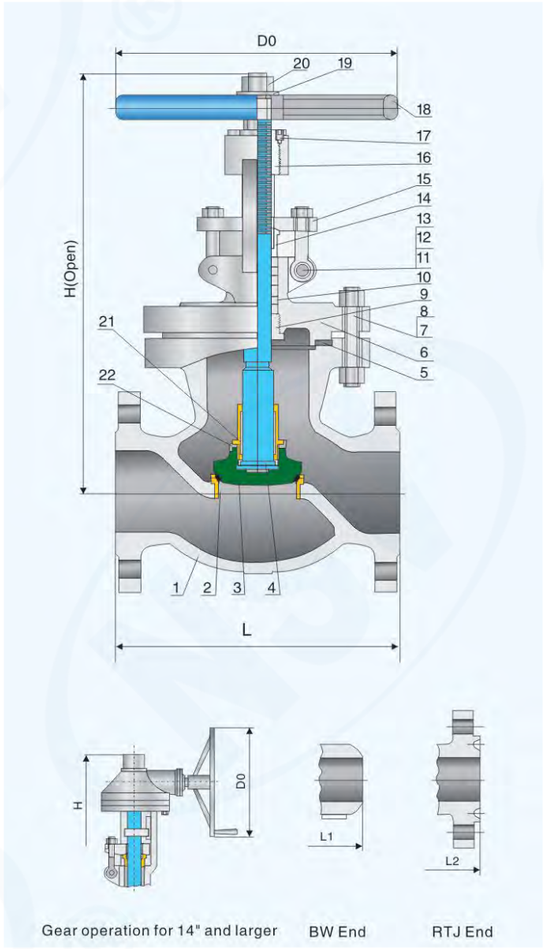
The valve operators are normally handwheel gearbox,with clear open and close marking. Electric or other operation device can be supplied according to customers requirements.

Features

Design and manufacture: BS 1873, ASME B16.34.
Face–to–Face dimension:ASME B16.10, JIS B2002.
Flanged End: ASME B16.5,JIS B2212, B2214.
B.W.End: ASME B16.25
Shell Wall Thickness: BS 1873, ASME B16.34
Inspection & Test: API 598

Parts List

No	Parts	Material
1	Body	ASTM A216 Gr.WCB
2	Seat ring	ASTM A105+13Cr
3	Disc	ASTM A105+13Cr
4	Stem	ASTM A182 F6a
5	Gasket	304S.S.Jacketed Graphite
6	Bonnet	ASTM A216 Gr.WCB
7	Stud	ASTM A193 Gr.B7
8	Nut	ASTM A194 Gr.2H
9	Backseat	ASTM A276 410
10	Packing	Graphite
11	Gland bolt	ASTM A193 Gr.B7
12	Gland nut	ASTM A194 Gr.2H
13	Pin	C.S
14	Gland	ASTM A276 410
15	Gland flange	ASTM A216 Gr.WCB
16	Stem nut	Aluminum Bronze
17	Screw	C.S.
18	Handwheel	Malleable Iron
19	Washer	C.S.
20	Nut	C.S.
21	Disc cover	ASTM A276 410
22	Washer	S.S.



Note: Available LCB, LCC, WC6, C5, WC9, C12, CF8, CF8M,4A, 5A etc for body material. And trim can be customized upon request.

Dimensions & Weights

Valve Size	in. mm	1–1/2 40	2 50	2–1/2 65	3 80	4 100	5 125	6 150	8 200	10 250	12 300	14 350	16 400
L–L1 (RF–BW)	in. mm	6.5 165	8 203	8.5 216	9.5 241	11.5 292	14 356	16 406	19.5 495	24.5 622	27.5 698	31 787	36 914
L2 (RTJ)	in. mm	7.0 178	8.5 216	9 229	10 254	12 305	14.5 369	16.5 419	20 508	25 635	28 711	31.5 800	36.5 927
H (open)	in. mm	14.25 326	14.69 373	15.38 390	16.56 421	20.25 515	21.19 538	22.31 567	24.63 626	28 712	39 990	51 1295	63.75 1619
Do	in. mm	7.88 200	7.88 200	9.88 250	9.88 250	11.81 300	11.81 300	13.75 350	15.75 400	17.75 450	20 500	24 610	24 610
WT (kg)	RF BW	19 16	22 19	29 25	42 34	64 49	77 65	105 82	154 131	288 249	507 430	690 600	950 850

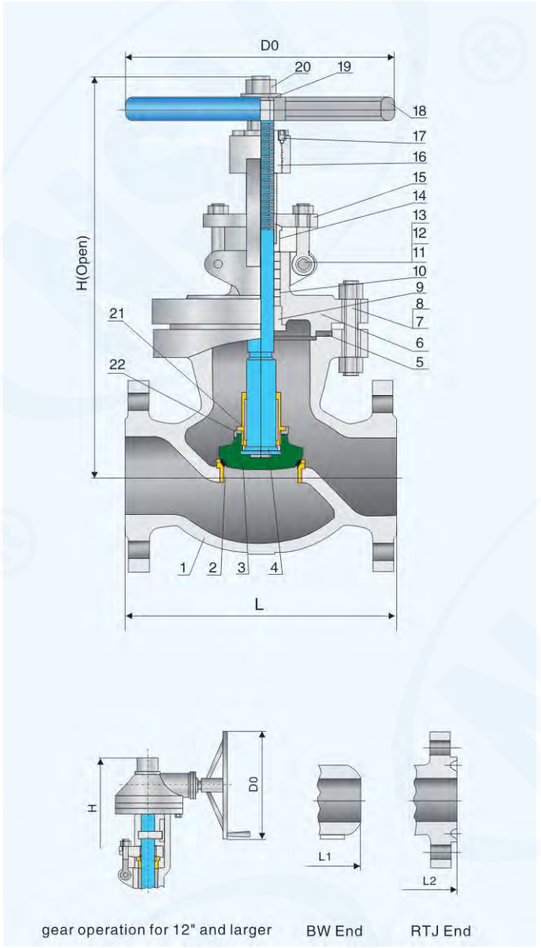
Class 300/JIS 20K Bolted bonnet, outside screw & yokerising stem, plug type disc

Features

Design and manufacture: BS 1873, ASME B16.34.
Face–to–Face dimension: ASME B16.10, JIS B2002.
Flanged End: ASME B16.5, JIS B2212, B2214.
B.W.End: ASME B16.25
Shell Wall Thickness: BS 1873, ASME B16.34
Inspection & Test: API 598

Parts List

No	Parts	Material
1	Body	ASTM A216 Gr.WCB
2	Seat ring	ASTM A105+13Cr
3	Disc	ASTM A105+13Cr
4	Stem	ASTM A182 F6a
5	Gasket	304S.S.Jacketed Graphite
6	Bonnet	ASTM A216 Gr.WCB
7	Stud	ASTM A193 Gr.B7
8	Nut	ASTM A194 Gr.2H
9	Backseat	ASTM A276 410
10	Packing	Graphite
11	Gland bolt	ASTM A193 Gr.B7
12	Gland nut	ASTM A194 Gr.2H
13	Pin	C.S
14	Gland	ASTM A276 410
15	Gland flange	ASTM A216 Gr.WCB
16	Stem nut	Aluminum Bronze
17	Screw	C.S.
18	Handwheel	Malleable Iron
19	Washer	C.S.
20	Nut	C.S.
21	Disc cover	ASTM A276 410
22	Washer	S.S.



Note: Available LCB, LCC, WC6, C5, WC9, C12, CF8, CF8M,4A, 5A etc for body material. And trim can be customized upon request.

Dimensions & Weights

Valve Size	in. mm	1–1/2 40	2 50	2–1/2 65	3 80	4 100	5 125	6 150	8 200	10 250	12 300	14 350	16 400
L–L1 (RF–BW)	in.	9	10.5	11.5	12.5	14	15.75	17.5	22	24.5	28	33	34
	mm	229	267	292	318	356	400	444	559	622	711	838	864
L2 (RTJ)	in.	9.5	11.12	12.12	13.12	14.62	16.37	18.12	22.62	25.12	28.62	33.62	34.62
	mm	242	283	308	334	372	416	460	575	638	727	854	880
H (open)	in.	14.17	15.69	17.13	18.19	22.06	24.38	27.31	38.63	44.5	41.31	61.25	67
	mm	360	398	436	462	560	620	694	982	1130	1049	1556	1700
Do	in.	7.88	7.88	9.88	9.88	13.75	15.75	17.75	22.06	34	24	24	24
	mm	200	200	250	250	350	400	450	560	860	610	610	610
WT (kg)	RF	26	31	43	57	86	130	168	280	385	724	1500	2200
	BW	21	26	38	44	68	110	138	228	329	618	1350	2000

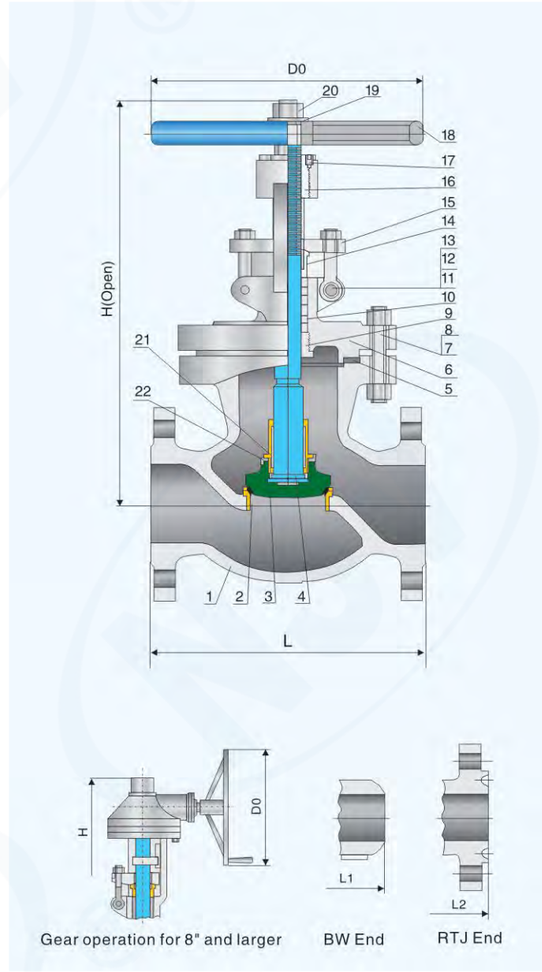
Class 600 Bolted bonnet, outside screw & yoke, rising stem, plug type disc

Features

Design and manufacture: BS 1873, ASME B16.34.
Face–to–Face dimension: ASME B16.10.
Flanged End: ASME B16.5.
B.W.End: ASME B16.25
Shell Wall Thickness: BS 1873, ASME B16.34
Inspection & Test: API 598

Parts List

No	Parts	Material
1	Body	ASTM A216 Gr.WCB
2	Seat ring	ASTM A105+13Cr
3	Disc	ASTM A105+13Cr
4	Stem	ASTM A182 F6a
5	Gasket	304S.S.Jacketed Graphite
6	Bonnet	ASTM A216 Gr.WCB
7	Stud	ASTM A193 Gr.B7
8	Nut	ASTM A194 Gr.2H
9	Backseat	ASTM A276 410
10	Packing	Graphite
11	Gland bolt	ASTM A193 Gr.B7
12	Gland nut	ASTM A194 Gr.2H
13	Pin	C.S
14	Gland	ASTM A276 410
15	Gland flange	ASTM A216 Gr.WCB
16	Stem nut	Aluminum Bronze
17	Screw	C.S.
18	Handwheel	Malleable Iron
19	Washer	C.S.
20	Nut	C.S.
21	Disc cover	ASTM A276 410
22	Washer	S.S.



Note: Available LCB, LCC, WC6, C5, WC9, C12, CF8, CF8M,4A, 5A etc for body material. And trim can be customized upon request.

Dimensions & Weights

Valve Size	in. mm	2 50	2–1/2 65	3 80	4 100	6 150	8 200	10 250	12 300	14 350	16 400
L–L1 (RF–BW)	in.	11.5	13	14	17	22	26	31	33	35	39
	mm	292	330	356	432	559	660	787	838	889	991
L2 (RTJ)	in.	11.62	13.12	14.12	17.12	22.12	26.12	31.12	33.12	35.12	39.12
	mm	295	333	359	435	562	663	790	841	892	994
H (open)	in.	16.75	19.75	20.5	24.38	34.88	36.69	41	50.38	70.88	76
	mm	425	502	521	620	886	932	1040	1280	1800	1930
Do	in.	9.88	11.81	13.75	17.75	28.38	18.13	24	30	30	30
	mm	250	300	350	450	720	460	610	760	760	760
WT (kg)	RF	39	58	73	120	327	482	700	900	2700	3600
	BW	33	48	61	95	261	385	588	795	2510	3350

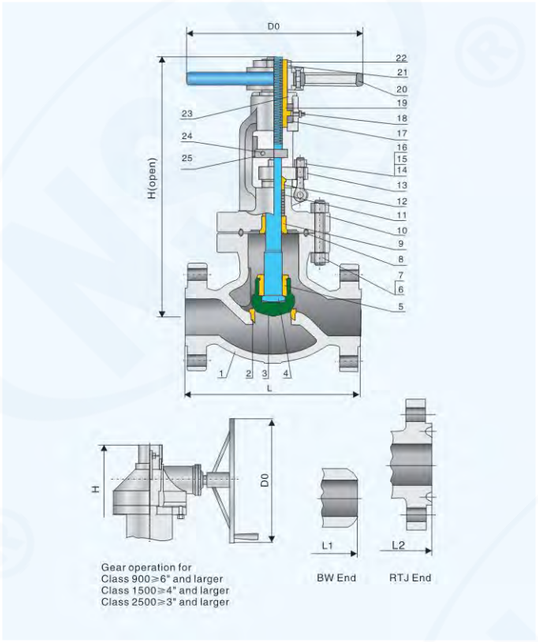
Class 900/1500/2500 Bolted bonnet, outside screw & yoke,rising stem, plug type disc

Features

Design and manufacture: BS 1873, ASME B16.34.
Face–to–Face dimension: ASME B16.10.
Flanged End: ASME B16.5.
B.W.End: ASME B16.25
Shell Wall Thickness: BS 1873, ASME B16.34
Inspection & Test: API 598

Parts List

No	Parts	Material
1	Body	ASTM A216 Gr.WCB
2	Seat ring	ASTM A105+STL
3	Disc	ASTM A105+13Cr
4	Stem	ASTM A182 F6a
5	Disc cover	ASTM A276 410
6	Stud	ASTM A193 Gr B7
7	Nut	ASTM A194 Gr.2H
8	Gasket	Soft iron
9	Backseat	ASTM A276 410
10	Bonnet	ASTM A216 Gr.WCB
11	Packing	Graphite
12	Gland	ASTM A276 410
13	Gland flange	ASTM A216 Gr.WCB
14	Gland bolt	ASTM A193 Gr B7
15	Gland nut	ASTM A194 Gr.2H
16	Pin	C.S.
17	Bearing	Assembly
18	Lubricator	Assembly
19	Stem nut	Aluminum Bronze
20	Hand wheel	Malleable Iron
21	H.W.lock nut	C.S.
22	Screw	C.S.
23	Retaining nut	C.S.
24	Bolt	C.S.
25	Guide block	C.S.



Note: Available LCB, LCC, WC6, C5, WC9, C12, CF8, CF8M,4A, 5A etc for body material. And trim can be customized upon request.

Dimensions & Weights

Class900	ValveSize	in.	2	2–1/2	3	4	6	8	10
		mm	50	65	80	100	150	200	250
	L–L1 (RF–BW)	in.	14.5	16.5	15	18	24	29	33
		mm	368	419	381	457	610	737	838
	L2 (RTJ)	in.	14.62	16.62	15.12	18.12	24.12	29.12	33.12
		mm	371	422	384	460	613	740	841
	H (open)	in.	9.44	10.25	10.25	12.63	15	20.88	27.17
		mm	240	260	260	320	382	530	690
	Do	in.	13.75	15.75	17.75	22.06	24	24	24
		mm	350	400	450	560	610	610	610
	WT (kg)	RF	100	118	131	218	452	710	2050
		BW	75	94	105	185	340	630	1870
Class1500	L–L1 (RF–BW)	in.	14.5	16.5	18.5	21.5	27.75	32.75	--
		mm	368	419	470	546	705	832	
	L2 (RTJ)	in.	14.62	16.62	18.62	21.62	28	33.13	--
		mm	371	422	473	549	711	842	
	H (open)	in.	23.31	26	27.25	35.69	40	4506	--
		mm	592	660	692	907	1015	1145	
	Do	in.	13.75	15.75	17.75	22.06	24	24	--
		mm	350	400	450	560	610	610	
	WT (kg)	RF	112	141	228	336	822	990	--
		BW	84	115	183	277	715	830	
Class2500	L–L1 (RF–BW)	in.	17.75	20	22.75	26.5	36	--	--
		mm	451	508	578	673	914		
	L2 (RTJ)	in.	17.87	20.25	23	26.88	36.5	--	--
		mm	454	514	584	683	927		
	H (open)	in.	27.25	29.5	31.5	47.25	75	--	--
		mm	692	750	800	1200	1905		
	Do	in.	15.75	19.69	24	30	30	--	--
		mm	400	500	610	760	750		
	WT (kg)	RF	182	290	340	820	2300	--	--
		BW	153	230	272	670	2000		

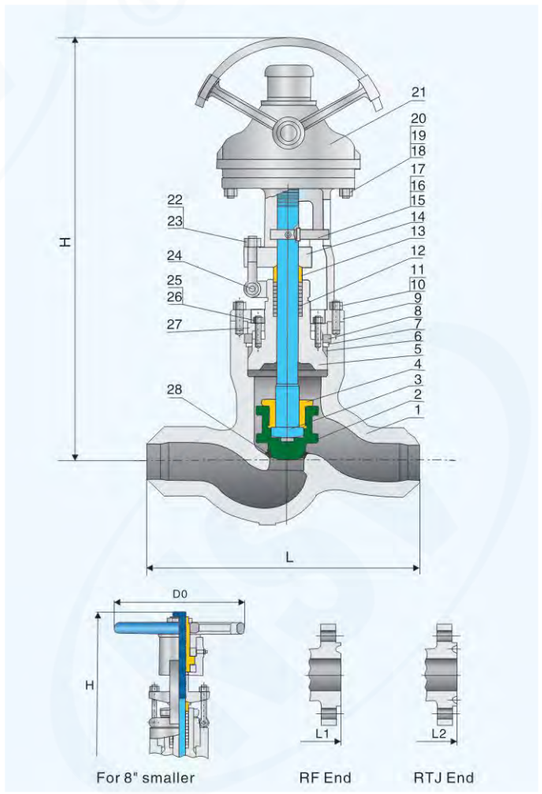
Class 900/1500/2500 Pressure seal bonnet, piston type disc

Features

Design and manufacture: BS 1873, ASME B16.34.
Face–to–Face dimension: ASME B16.10
Flanged End: ASME B16.5
B.W.End: ASME B16.25
Shell Wall Thickness: BS 1873, ASME B16.34
Inspection & Test: API 598

Parts List

No	Parts	Material
1	Body	ASTM A216 Gr.WCB
2	Disc	ASTM A105+13Cr
3	Stem	ASTM A182 F6a
4	Disc nut	ASTM A276 410
5	Bonnet	ASTM A216 Gr.WCB
6	Sealing ring	ASTM A182 F304
7	Spacer ring	ASTM A182 F6a
8	Sealing ring	ASTM A182 F6a
9	Yoke	ASTM A216 Gr.WCB
10	Bolt	ASTM A193 Gr.B7
11	Nut	ASTM A194 Gr.2H
12	Packing	Graphite
13	Gland	ASTM A276 410
14	Gland flange	ASTM A216 Gr.WCB
15	Pin	C.S.
16	Bolt	C.S.
17	Stem guide collar	C.S.
18	Bolt	C.S.
19	Nut	C.S.
20	Washer	C.S.
21	Gear box	Assembly
22	Gland bolt	ASTM A193 Gr.B7
23	Gland nut	ASTM A194 Gr.2H
24	Pin	ASTM A276 410
25	Stud	ASTM A193 Gr.B7
26	Nut	ASTM A194 Gr.2H
27	Supporting plate	ASTM A105
28	Seat surface	STL No.6



Note: Available LCB, LCC, WC6, C5, WC9, C12, CF8, CF8M,4A, 5A etc for body material. And trim can be customized upon request.

Dimensions & Weights

Class 900	Valve Size	in.	2	2–1/2	3	4	6	8
		mm	50	65	80	100	150	200
	(RF–BW)(L–L1)	in.	14.5	16.5	15	18	24	29
		mm	368	419	381	457	610	737
	RTJ (L2)	in.	14.62	16.62	15.12	18.12	24.12	29.12
		mm	371	422	384	460	613	740
	Open (H)	in.	21.65	23.82	26.70	31.42	36.61	49.61
		mm	550	605	678	798	930	1260
	Do	in.	13.78	13.78	15.75	17.72	18.03	24
		mm	350	350	400	450	458	610
	WT (kg)	RF—BW	76	106	100	140	388	958
			64	89	85	126	353	866
Class 1500	Valve Size	in.	14.5	16.5	18.5	21.5	27.75	32.75
		mm	368	419	470	546	705	832
	(RF–BW)(L–L1)	in.	14.62	16.62	18.62	21.62	28	33.13
		mm	371	422	473	549	711	842
	RTJ (L2)	in.	21.65	23.82	34.10	37.64	49.61	49.72
		mm	550	605	866	956	1260	1263
	Do	in.	15.75	15.75	17.72	22.05	24	24
		mm	400	400	450	560	610	610
	WT (kg)	RF—BW	83	108	132	228	658	1588
			75	99	120	207	593	1438
Class 2500	Valve Size	in.	17.75	20	22.75	26.50	36	40.25
		mm	451	508	578	673	914	1022
	(RF–BW)(L–L1)	in.	17.87	20.25	23	26.88	36.50	40.87
		mm	454	514	584	683	927	1038
	RTJ (L2)	in.	22.05	28.35	29.72	48.43	70.51	82.13
		mm	560	720	755	1230	1791	2086
	Do	in.	15.75	17.72	22.05	12.2	24	30
		mm	400	450	560	310	610	760
	WT(kg)	RF—BW	138	166	245	618	1498	3198
			98	116	178	436	1146	2592

Features

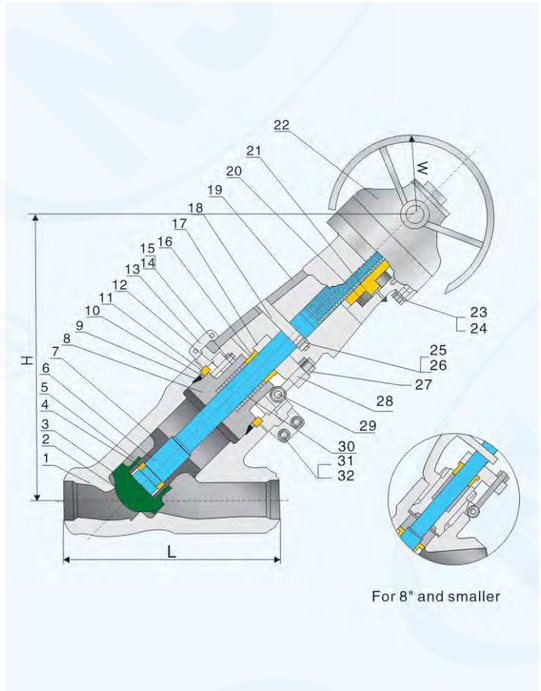
Design and manufacture:
BS 1873 and ASME B16.34
Stem indicator
Disc hard–surfaced
Integral hard–surfaced seats
Guide ribs
Pressure seal gasket
B.W.End to ASME B 16.25
Low pressure drops

Y–Pattern Stop Valves

Y–Pattern Stop Valves are available in stop configurations for critical high temperature & high pressure services, Many design features incorporated into stop valves–drop tight shut–off,low pressure drop,piping flexibility–are also included in stop valves.In addition, an Equalizer pipe is provided to help achieve full disk lift as well as reduce wear–producing turbulence.

Parts list

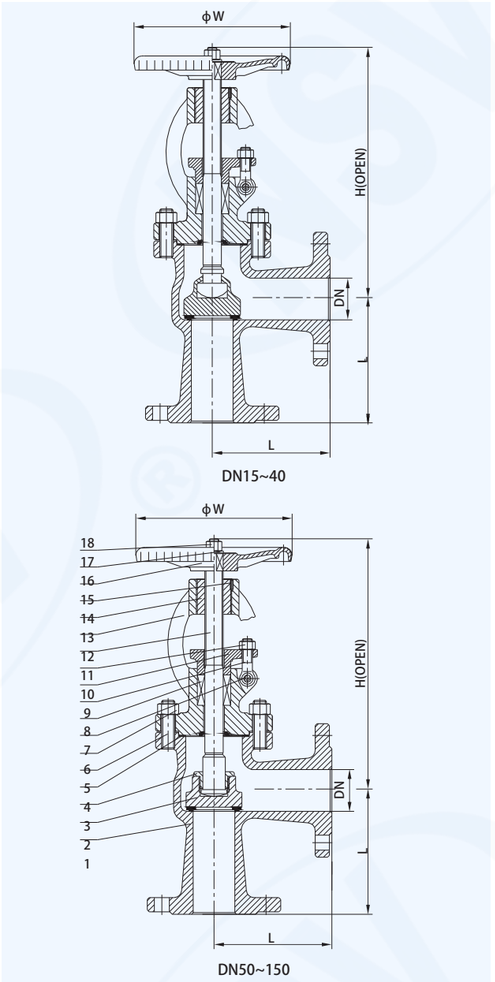
No	Parts	Material
1	Body	ASTM A216 Gr.WCB
2	Seat surface	Stellite
3	Disc	ASTM A105+13Cr
4	Split ring	ASTM A182 F6a
5	Bolt	S.S.
6	Stem	ASTM A182 F6a
7	Disc guide	ASTM A276 410
8	Bonnet	ASTM A216 Gr.WCB
9	Sealing ring	ASTM A182 F304
10	Spacer ring	ASTM A182 F6a
11	Sealing ring	ASTM A182 F6a
12	Supporting plate	ASTM A 105
13	Yoke lock ring	ASTM A216 Gr.WCB
14	Bolt	ASTM A193 Gr.B7
15	Nut	ASTM A194 Gr.2H
16	Gland	ASTM A276 410
17	Gland flange	ASTM A216 Gr.WCB
18	Stem guide collar	C.S.
19	Yoke	ASTM A216 Gr.WCB
20	Bushing	Assemly
21	Stem nut	Aluminum Bronze
22	Gear box	Assemly
23	Bolt	C.S.
24	Washer	C.S.
25	Pin	C.S.
26	Bolt	C.S.
27	Stud	ASTM A193 Gr.B7
28	Nut	ASTM A194 Gr.2H
29	Pin	C.S.
30	Packing	Graphite
31	Lock ring bolt	ASTM A193 Gr.B7
32	Lock ring nut	ASTM A194 Gr.2H



Note: Available LCB, LCC, WC6, C5, WC9, C12, CF8, CF8M,4A, 5A etc for body material. And trim can be customized upon request.

Dimensions & Weights

Class 900	Valve Size	in.	2	2–1/2	3	4	6	8	10	12	14	16
		mm	50	65	80	100	150	200	250	300	350	400
	BW(L)	in.	13.3	15.4	17	18.5	20	26	31	38	38	44.5
		mm	338	391	432	470	508	660	787	965	965	1130
	Open	in.	15	16.5	18.11	23.23	32.28	41.34	50	58.27	61.02	70.08
		mm	380	420	460	590	820	1050	1270	1480	1550	1780
	W	in.	12.2	12.2	18.11	18.11	18.11	24	24	24	24	24
		mm	310	310	460	460	460	610	610	610	610	610
	WT(kg)	kg	78	84	92	131	258	553	992	1603	1825	2579
Class 1500	BW (L)	in.	13.3	15.4	17	18.5	27.75	30	36.25	43	---	---
		mm	338	391	432	470	705	762	921	1092		
	Open	in.	15	16.5	15.16	15.16	18.5	26.06	34.76	58.28	---	---
		mm	380	420	385	385	470	662	883	1480		
	W	in.	12.2	12.2	18.11	18.11	18.11	24	24	24	---	---
		mm	310	310	460	460	460	610	610	610		
	WT(kg)	kg	83	95	115	148	362	759	1320	2062	---	---
Class 2500	BW (L)	in.	13.3	15.4	17	18.5	27.75	30	36.25	---	---	---
		mm	338	391	432	470	705	762	9921			
	Open	in.	15	16.5	15.16	16.54	26.89	28.35	35.12	---	---	---
		mm	380	420	385	420	683	720	892			
	W	in.	12.2	18.11	18.11	18.11	18.11	24	24	---	---	---
		mm	310	460	460	460	460	610	610			
	WT(kg)	kg	93	106	122	163	461	790	1330	---	---	---



MAIN PARAMETER SPECIFICATION

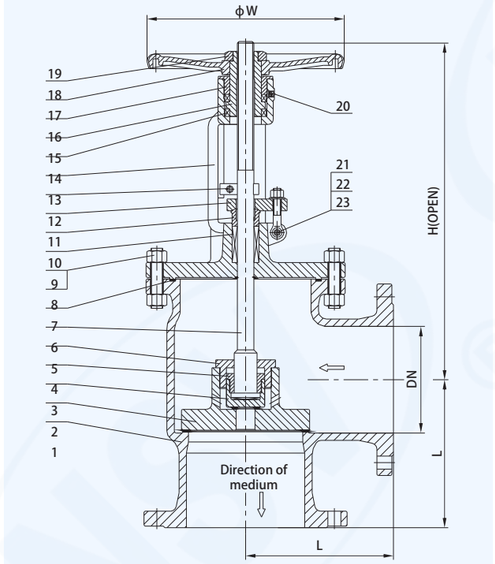
Design and manufacture: DIN3356
Face to face: DIN3202-F32,EN558-1
End flange Dimensions: DIN2543(PN16), DIN2544(PN25), DIN2545(PN40), EN1092-1
Pressure test: DIN3230,EN12266-1

MAIN PART MATERIAL

No	Part Name	Material
1	Body	GS-C25+13Cr
2	Disc	A105+13Cr
3	Disc Nut	Carbon Steel
4	Gasket	Graphite
5	Bolt	A193 B7
6	Nut	A194 2H
7	Pin	Carbon Steel
8	Packing	Graphite
9	Eye Bolt	A193 B7
10	Gland	GS-C25
11	Nut	A194 2H
12	Stem	A182 F6a
13	Bonnet	GS-C25
14	Stem Nut	Bronze
15	Grub Screw	Carbon Steel
16	Handwheel	A105
17	Washer	Carbon Steel
18	Nut	A194 2H

Dimensions and Weights

DN		15	20	25	32	40	50	65	80	100	125	150
L		90	95	100	105	115	125	145	155	175	200	225
H		193	200	223	256	273	287	328	352	400	452	480
W	PN16	120	120	160	160	200	200	220	250	300	350	400
	PN25	120	120	160	160	200	200	220	250	300	350	400
	PN40	120	120	160	160	200	240	280	320	360	400	450
Weight(kg)	PN16	6	7.5	8	9	14	18	26	29	48	69	89
	PN25	6	7.5	8	9	15	19	29	31	52	72	98
	PN40	7	8.5	9	12	16	20	32	34	55	78	105



DN200~300

MAIN PARAMETER SPECIFICATION

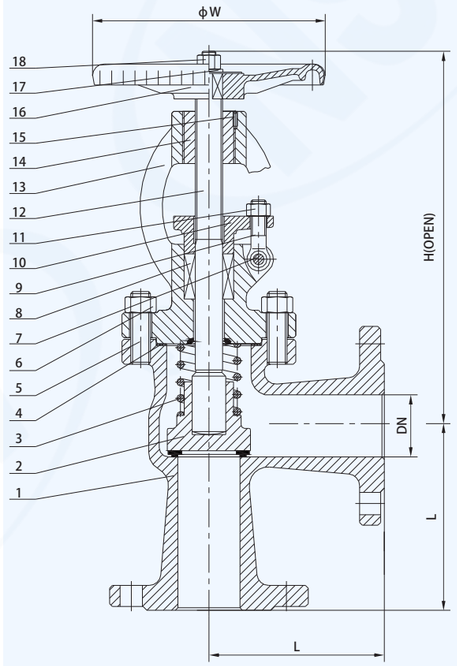
Design and manufacture: DIN3356
Face to face: DIN3202-F32,EN558-1
End flange Dimensions: DIN2543(PN16), DIN2544(PN25), DIN2545(PN40), EN1092-1
Pressure test: DIN3230,EN12266-1

MAIN PART MATERIAL

No	Part Name	Material
1	Body	GS-C25+13Cr
2	Big Disc	A105+13Cr
3	Small Disc	A105+13Cr
4	Small Disc Nut	A105
5	Big Disc Nut	A105
6	Stem	A182 F6a
7	Gasket	Graphite
8	Nut	A194 2H
9	Bolt	A193 B7
10	Packing	Graphite
11	Gland	A182 F6a
12	Gland Flange	GS-C25
13	Splint	Carbon Steel
14	Bonnet	GS-C25
15	Bearings	Alloy Steel
16	Stem Nut	A439 D2
17	Retaining Nut	1035
18	Handwheel	A536
19	Nut	Carbon Steel
20	Nipple	Brass
21	Pin	Carbon Steel
22	Bolt	A193 B7
23	Nut	A194 2H

Dimensions and Weights

DN		200	250	300
L		275	325	375
H		730	780	880
W	PN16	450	500	600
	PN25	450	500	600
	PN40	500	550	650



MAIN PARAMETER SPECIFICATION

Design and manufacture: DIN3356
Face to face: DIN3202-F32,EN558-1
End flange Dimensions: DIN2545, EN1092-1
Pressure test: DIN3230,EN12266-1

MAIN PART MATERIAL

No	Part Name	Material
1	Body	GS-C25+13Cr
2	Disc	A105+13Cr
3	Spring	1065
4	Gasket	Graphite
5	Bolt	A193 B7
6	Nut	A194 2H
7	Pin	Carbon Steel
8	Packing	Graphite
9	Eye Bolt	A193 B7
10	Gland	GS-C25
11	Nut	A194 2H
12	Stem	A182 F6a
13	Bonnet	GS-C25
14	Stem Nut	Bronze
15	Grub Screw	Carbon Steel
16	Handwheel	A105
17	Washer	Carbon Steel
18	Nut	A194 2H

Dimensions and Weights

PN	DN	15	20	25	32	40	50	65	80	100	125	150
40	L	90	95	100	105	115	125	145	155	175	200	225
	H	193	200	223	256	273	287	328	352	400	452	480
	W	120	120	160	160	200	240	280	320	360	400	450

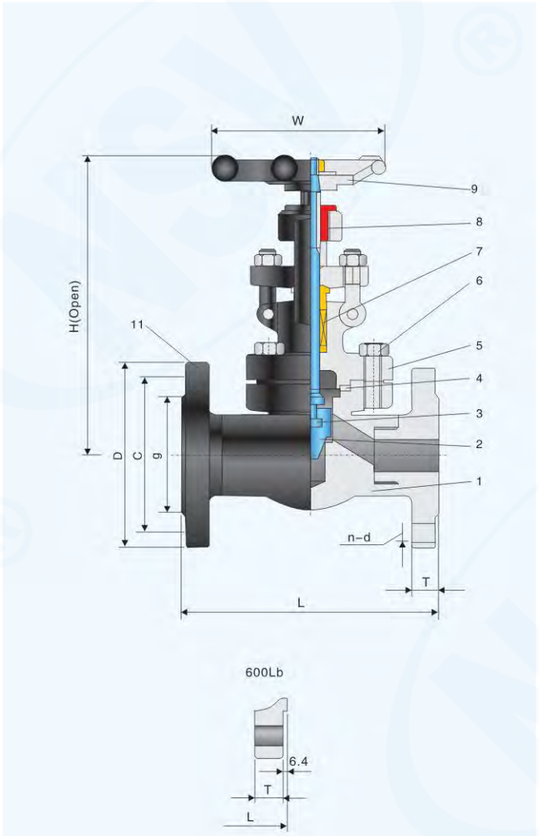
Class 150/300/600 Forged steel flanged globe valve

Technical specification

1、Design and manufacture： API 602, BS 5352.
2、Consturction feature: B.B OS&Y or WB OS&Y
3、Face to face dimensions: ANSI B16.10.
4、Flanged connection: ANSI B 16.5.
5、Test and inspection: API 598.
6、Available LF2, F5, F9, F11, F22, F304(L), F316(L), aluminium bronze, inconel, monel etc for body material. And trim can be customized upon request.

Main parts and materials

No	Parts	Material
1	Body	A105
2	Disc	13Cr
3	Stem	A182–F6a
4	Gasket	304S.S. Jacketed Graphite
5	Bonnet	A105
6	Bolt	A193–B7
7	Packing	Graphite
8	Stem nut	13Cr
9	Handwheel	Malleable Iron
10	Flange	A105



Dimensions and weights

DN		Class	L	D	C	g	T	n–d	H(Open)		W		WT(kg)	
inch	mm								Reduced Bore	Full Bore	Reduced Bore	Full Bore	Reduced Bore	Full Bore
1/2"	15	150	108	90	60.5	35	11.5	4–16	158	163	100	100	4.5	6.9
		300	152	95	66.5		14.5	4–16					4.8	7.7
		600	165	95	66.5		14.5	4–16					5.6	7.8
3/4"	20	150	117	100	70	43	13	4–16	163	193	100	125	6.9	9.8
		300	178	115	82.5		16	4–19					7.7	11.3
		600	190	115	82.5		16	4–19					7.8	12.5
1"	25	150	127	110	79.5	51	14.5	4–16	193	250	125	160	9.8	13.5
		300	203	125	89		18	4–19					11	16.8
		600	216	125	89		18	4–19					12.5	17.5
1 1/4"	32	150	140	115	89	63	16	4–16	250	250	160	160	13.5	19.5
		300	216	135	98.5		19.5	4–19					16.8	21.2
		600	229	135	98.5		21	4–19					17	23.5
1 1/2"	40	150	165	125	98.5	73	18	4–16	250	291	160	180	19.5	28.5
		300	229	155	114.5		21	4–22.5					21.2	32.6
		600	241	155	114.5		22.5	4–22.5					23.5	38.5
2"	50	150	203	150	120.5	92	19.5	4–19	291	312	180	200	28	30.3
		300	267	165	127		22.5	8–19					32.6	35
		600	292	165	127		26	8–19					38.8	42.2

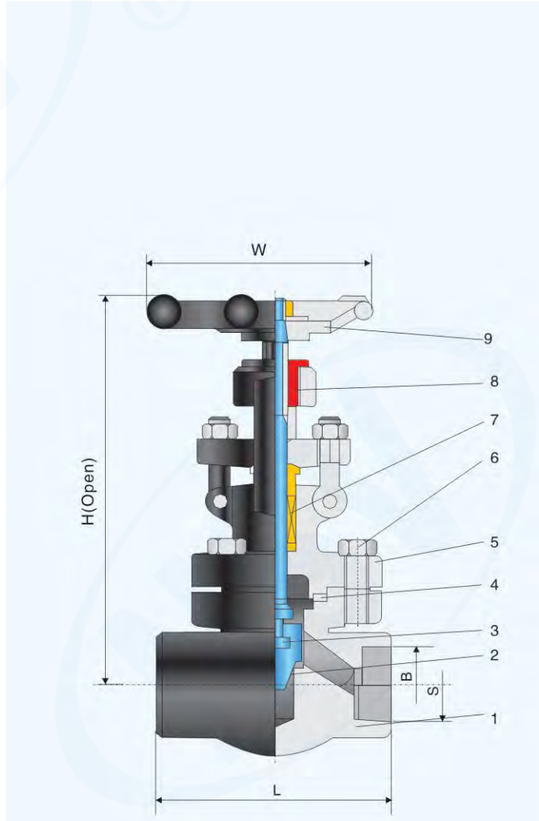
Class 800 Forged steel NPT/socket weld globe valve

Technical specification

1、Design and manufacturing per API 602, BS 5352.
2、Consturction feature: B.B OS&Y or W.B OS&Y
3、FNPT connection: ANSI B1.20.1
Socket weld connection: ANS B 16.11
4、Test and inspection: API 598.
5、Available LF2, F5, F9, F11, F22, F304(L), F316(L), aluminium bronze, inconel, monel etc for body material. And trim can be customized upon request.

Main parts and materials

No	Parts	Material
1	Body	A105
2	Disc	13Cr
3	Stem	A182–F6a
4	Gasket	304S.S. Jacketed Graphite
5	Bonnet	A105
6	Bolt	A193–B7
7	Packing	Graphite
8	Stem nut	13Cr
9	Handwheel	Malleable Iron



Dimensions and weights

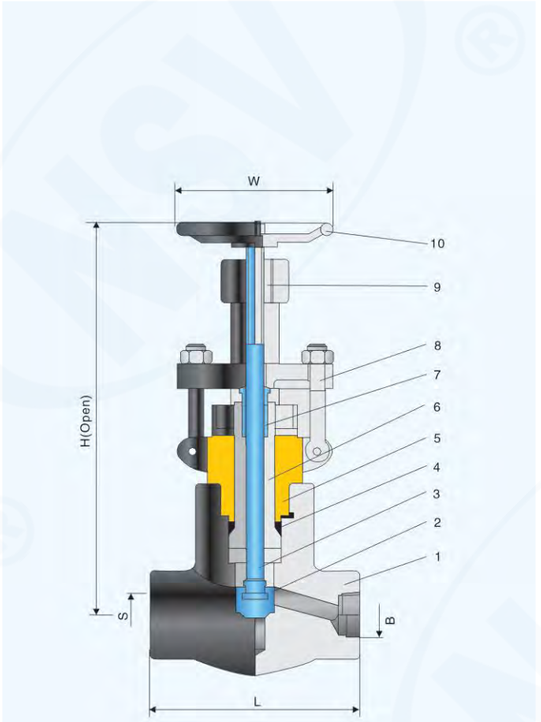
DN				L	B(SW)				S(Screwed)				H (Open)	W	WT(kg)	
inch		mm			ANSI		JIS		ANSI60°		ISO、BS、JIS50°					
Reduced Bore	Full Bore	Reduced Bore	Full Bore		Reduced Bore	Full Bore	Reduced Bore	Full Bore	Reduced Bore	Full Bore	Reduced Bore	Full Bore			Reduced Bore	Full Bore
1/2"	--	15	--	80	21.8	--	22.2	--	1/2"	--	1/2"	--	158	100	1.9	--
3/4"	1/2"	20	15	92	27.1	21.8	27.7	22.2	3/4"	1/2"	3/4"	1/2"	192	100	2.1	2.3
1"	3/4"	25	20	111	33.8	27.1	34.5	27.7	1"	3/4"	1"	3/4"	252	125	3.3	3.6
1 1/4"	1"	32	25	120	42.6	33.8	43.2	34.5	1 1/4"	1"	1 1/4"	1"	252	160	7.5	7.8
1 1/2"	1 1/4"	40	32	152	48.7	42.6	49.1	43.2	1 1/2"	1 1/4"	1 1/2"	1 1/4"	289	160	7.5	8.2
2"	1 1/2"	50	40	172	61.1	48.7	61.1	49.1	2"	1 1/2"	2"	1 1/2"	330	180	11.4	12
--	2"	--	50	200	--	61.1	--	61.1	--	2"	--	2"	370	240	--	15

Technical specification

1、Design and manufacture：API 602, BS 5352.
2、Consturction feature: PSB OS&Y or WB OS&Y
3、FNPT connection: ANSI B1.20.1
Socket weld connection: ANS B 16.11
4、Test and inspection: API 598.
5、Available LF2, F5, F9, F11, F22, F304(L), F316(L), aluminium bronze, inconel, monel etc for body material. And trim can be customized upon request.

Main parts and materials

No	Parts	Material
1	Body	A105
2	Disc	13Cr
3	Stem	A182–F6a
4	Sealed ring	304
5	Yoke	A105
6	Bonnet	A105
7	Packing	Graphite
8	Bolt	A193–B7
9	Stem nut	13Cr
10	Handwheel	Malleable Iron



Dimensions and weights

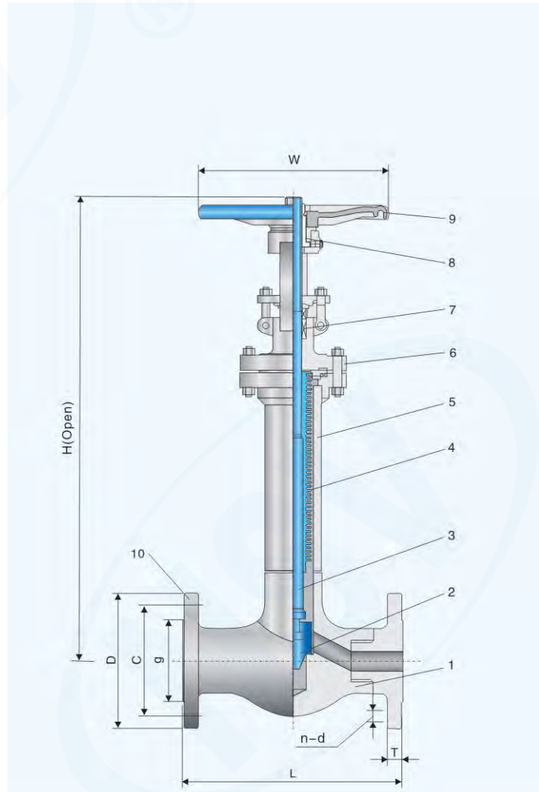
DN		L		B(SW)		S(Screwed)			H (Open)	W	WT(kg)	
inch	mm	Class900 Class1500	Class2500	ANSI	JIS	ANSI APT60°	ISO、BS RC60°	JIS PT50°			Class900 Class1500	Class2500
1/2"	15	140	186	21.8	22.2	1/2"			333	125	10.1	10.8
3/4"	20	140	186	27.1	27.7	3/4"			333	125	10.8	11.6
1"	25	140	186	33.8	34.5	1"			333	160	11.2	12.3
1 1/4"	32	178	232	42.6	43.2	1 1/4"			408	160	21.0	28.0
1 1/2"	40	178	232	48.7	49.1	1 1/2"			408	180	19.6	26.4
2"	50	216	279	61.1	61.1	2"			524	200	40.4	43.8

Technical specification

1、Design and manufacture：API 602, BS 5352.
2、Face to face dimensions: ANSI B16.10.
3、Flanged connection: ANSI B16.5.
4、Test and inspection: API 598.
5、Available LF2, F5, F9, F11, F22, F304(L), F316(L), aluminium bronze, inconel, monel etc for body material. And trim can be customized upon request.

Main parts and materials

No	Parts	Material
1	Body	A105+STL
2	Disc	13Cr+STL
3	Stem	A182–F6a
4	Bellow	304L
5	Bonnet	A105
6	Yoke	A105
7	Packing	Graphite
8	Stem nut	copper alloy
9	Handwheel	Malleable Iron
10	Flange	A105



Dimensions and weights

Class	DN		L	D	C	g	T	n–d	H(Open)	W	WT(kg)
	inch	mm									
Class150	1/2"	15	108	90	60.5	35	11.5	4–16	420	100	8
	3/4"	20	117	100	70	43	13	4–16	445	125	11
	1"	25	127	110	79.5	51	14.5	4–16	486	160	14
	1 1/2"	40	165	125	98.5	73	18	4–16	590	180	16
	2"	50	203	150	120.5	92	19.5	4–19	615	200	20
Class300	1/2"	15	152	95	66.5	35	14.5	4–16	428	100	9
	3/4"	20	178	115	82.5	43	16	4–19	452	125	12
	1"	25	203	125	89	51	18	4–19	495	160	15
	1 1/2"	40	229	155	114.5	73	21	4–22.5	605	180	19
	2"	50	267	165	127	92	22.5	8–19	630	200	23

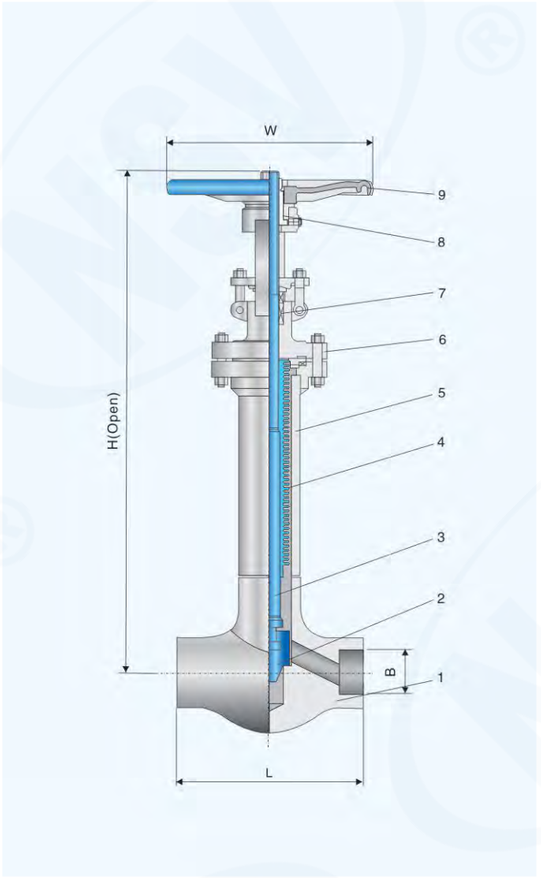
Class 800 Bellows sealed globe valve

Technical specification

1、Design and manufacture: API 602, BS 5352.
2、Socket Weld connection: ANSI B16.11
3、Test and inspection: API 598.
4、Available LF2, F5, F9, F11, F22, F304(L), F316(L), aluminium bronze, inconel, monel etc for body material. And trim can be customized upon request.

Main parts and materials

No	Parts	Material
1	Body	A105+STL
2	Disc	13Cr+STL
3	Stem	A182-F6a
4	Bellow	304L
5	Bonnet	A105
6	Yoke	A105
7	Packing	Graphite
8	Stem nut	Copper alloy
9	Handwheel	Malleable Iron



Dimensions and weights

DN		L	B	H(Open)	W	WT(kg)
inch	mm					
1/2"	15	92	21.8	420	100	8
3/4"	20	111	27.1	445	125	11
1"	25	120	33.8	486	160	14
1 1/2"	40	172	48.7	590	180	16
2"	50	200	61.1	615	200	16

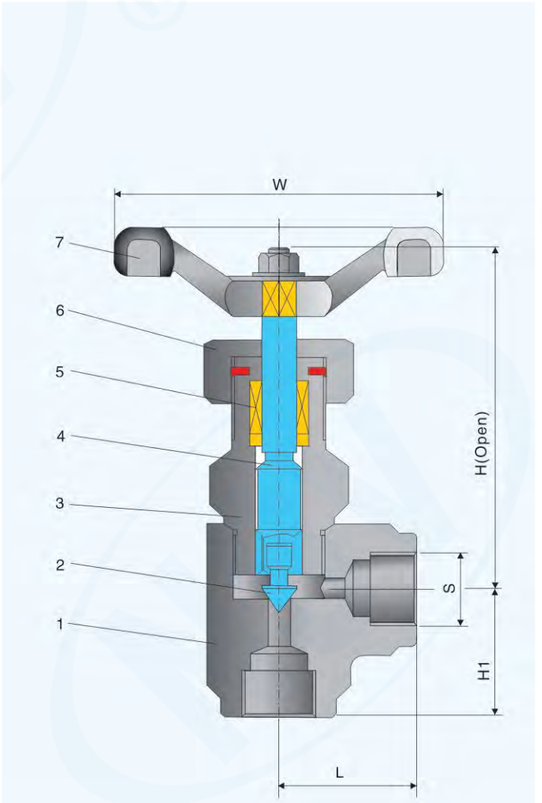
Class 800 Angle type globe valve

Technical specification

1、Design and manufacture: API 602, BS 5352.
2、NPT connection: ANSI B1.20.1
3、Test and inspection: API 598.
4、Available LF2, F5, F9, F11, F22, F304(L), F316(L), aluminium bronze, inconel, monel etc for body material. And trim can be customized upon request.

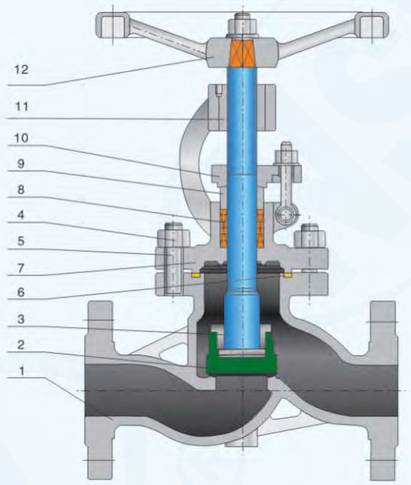
Main parts and materials

No	Parts	Material
1	Body	A105
2	Disc	13Cr
3	Bonnet	A105
4	Stem	A182-F6a
5	Packing	Graphite
6	Impact nut	13Cr
7	Handwheel	Malleable Iron



Dimensions and weights

DN		L	S(NPT)	H1	H(Open)	W	WT(kg)
inch	mm						
1/2"	6	30	6	30	82	65	0. 65
3/8"	10	30	10	32	82	65	0.59
1/2"	15	30	15	35	82	65	0.54
3/4"	20	40	20	40	94	80	1.2
1"	25	40	25	45	94	80	1.1



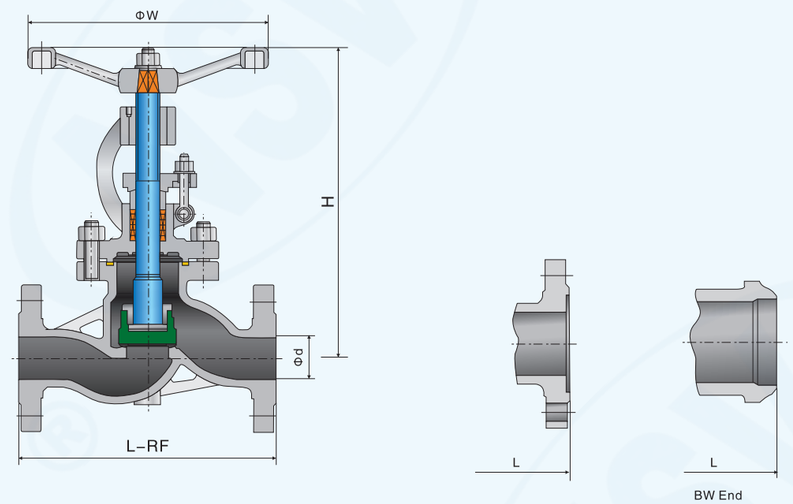
Standards

Design and Manufacture: BS 1873，BS EN 558–1
Face to Face Dimensions: DIN3202，EN 1092–1
Flange Ends Dimensions: DIN2543，
DIN2544，DIN2545，DIN2546，
DIN2547，DIN2548
Test & Inspect: DIN 3230

Parts and material list

Part Name		Material				
		Trim 1	Trim 8	Trim 5		
1	Body	DIN 17245 GS–C25+CR13	DIN 17245 GS–C25+STL	DIN 17245 GS–C25+STL	DIN 17445 1.4308	DIN 17445 1.4408
2	Disc	DIN 17245 GS–C25+CR13	DIN 17245 GS–C25+CR13	DIN 17245 GS–C25+STL	DIN 17445 1.4308	DIN 17445 1.4408
7	Bonnet	DIN 17245 GS–C25+CR13	DIN 17245 GS–C25+CR13	DIN 17245 GS–C25+CR13	DIN 17445 1.4308	DIN 17445 1.4408
9	Gland	ASTM A182 F6a			ASTM A182 F304	ASTM A182 F316
10	Gland Flange	DIN 17245 GS–C25			DIN 17445 1.4308	DIN 17445 1.4408
3	Stem	ASTM A182 F6a			ASTM A182 F304	ASTM A182 F304
4	Nut	A194 2H			A194 8	A194 8
5	Bolt	A193 B7			A193 B8	A193 B8
6	Gasket	SS Spiral Wound W/graphite,or SS Spiral Wound W/PTFE,or Reinforced PTFE				
8	Packing	Braided Graphite or reformed Graphite Ring or PTFE				
11	Stem Nut	Copper alloy or A439 D2				
12	Hand Wheel	Ductile iron or Carbon steel				

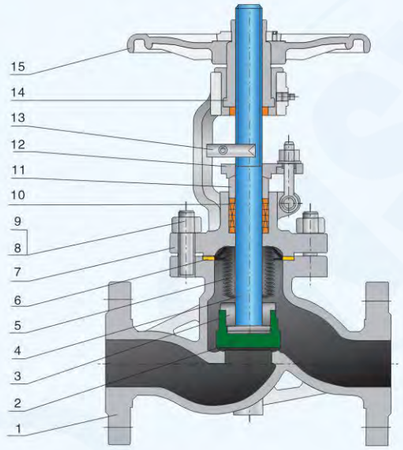
Noted：The chart above only lists out some common composition of steel globe valve. We may provide other different parts material composition according to the customer's request or the actual valve working conditlon



Dimensions

PN16(DIN 3202–F1)																			
DN	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	450	500
L–RF	mm	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100	1200	1250
L–BW	mm	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100	1200	1250
H	mm	190	210	235	235	285	310	340	370	420	480	510	610	770	890	–	–	–	–
W	mm	120	140	160	180	200	200	250	280	300	360	400	400	450	500	–	–	–	–
PN25(DIN 3202–F1)																			
DN	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	–	–
L–RF	mm	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100	–	–
L–BW	mm	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100	–	–
H	mm	190	210	235	235	285	310	340	370	420	480	535	660	790	940	1010	1125	–	–
W	mm	120	140	160	180	200	200	250	280	300	360	400	400	450	500	–	–	–	–
PN40(DIN 3202–F1)																			
DN	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	–	–
L–RF	mm	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100	–	–
L–BW	mm	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980	1100	–	–
H	mm	190	210	235	235	285	310	340	370	420	480	560	725	815	945	1015	1150	–	–
W	mm	120	140	160	180	200	200	250	280	300	360	500	500	–	–	–	–	–	–
PN63(DIN 3202–F2)																			
DN	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	–	–	–	–
L–RF	mm	210	230	230	260	260	300	340	380	430	500	550	650	775	900	–	–	–	–
L–BW	mm	210	230	230	260	260	300	340	380	430	500	550	650	775	900	–	–	–	–
W	mm	210	248	275	355	395	450	494	531	588	650	715	813	–	–	–	–	–	–
PN100(DIN 3202–F2)																			
DN	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	–	–	–	–
L–RF	mm	210	230	230	260	260	300	340	380	430	500	550	650	775	900	–	–	–	–
L–BW	mm	210	230	230	260	260	300	340	380	430	500	550	650	775	900	–	–	–	–
W	mm	210	248	275	355	395	450	494	531	588	650	715	813	–	–	–	–	–	–

Noted: We may provide other different actuators according to the customer's request,such as pneumatic,electic,hydraulic actuators,th e details of them according to the actual valve working conditlon.
Noted: The face to face demension of BW–end–valve is the same as that of flanged–end–valve.



Standards

Design and Manufacture: DIN 3356,BS 1873
Face to Face Dimensions: DIN3202,EN 558–1
Flange Ends Dimensions: DIN2543–2545,EN 1092–1
Test & Inspect: DIN 3230,BS EN 12569

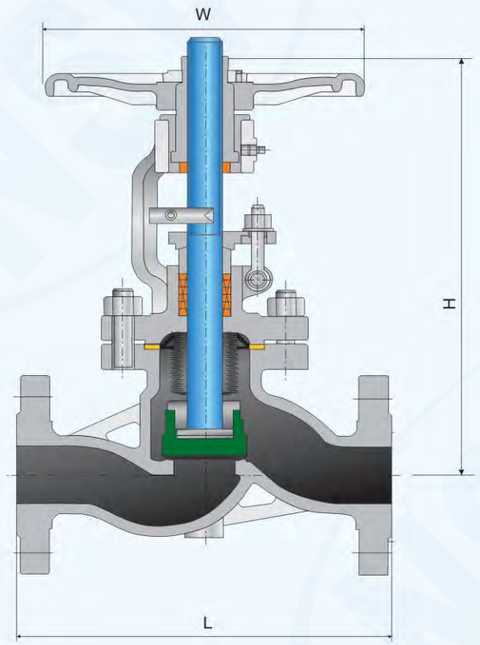
Structure Feature

1.Double seal，more reliable performance，
2.Stem lift position indication，more intuitive，
3.Small flow reJIStance，low pressure drop.

Parts and material list

Part Name		Material				
1	Body	DIN 17245 GS–C25+CR13	DIN 17245 GS–C25+STL	DIN 17245 GS–C25+STL	DIN 17445 1.4308	DIN 17445 1.4408
2	Disc	DIN 17245 GS–C25+CR13	DIN 17245 GS–C25+CR13	DIN 17245 GS–C25+STL	DIN 17445 1.4308	DIN 17445 1.4408
7	Bonnet	DIN 17245 GS–C25	DIN 17245 GS–C25	DIN 17245 GS–C25	DIN 17445 1.4308	DIN 17445 1.4408
3	Disc Cover	ASTM A182 F6a			ASTM A182 F304	ASTM A182 F316
4	Stem	ASTM A182 F6a			ASTM A182 F304	ASTM A182 F316
5	Bellows Seal	SS304			SS304	SS316
8	Bolt	ASTM A193 B7			ASTM A194 8	ASTM A194 8
9	Nut	ASTM A194 2H			ASTM A193 B8	ASTM A193 B8
11	Gland	ASTM A182 F6a			ASTM A182 F304	ASTM A182 F316
12	Gland Flange	DIN 17245 GS–C25			DIN 17445 1.4308	DIN 17445 1.4408
13	Guide Block	DIN 17245 GS–C25			DIN 17445 1.4308	DIN 17445 1.4408
6	Gasket	Flexibe Graphite+SS,TFE,or Reinforced PTFE				
10	Packing	Braided Craphite or reformed Graphite Ring or PTFE				
14	Stem Nut	Copper Alloy or A439 D2				
15	Hand wheel	Ductile Iron or Carbon steel				

Noted：Conection flange of series valve may be manufactured by customer's requirement.



Dimensions

PN16(DIN 3202–F1)															
DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
L	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980
H	195	200	220	225	235	250	260	265	370	400	515	550	600	630	680
W	120	120	140	160	160	180	200	220	250	300	350	400	450	500	500
PN25(DIN 3202–F1)															
DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
L	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980
H	195	200	220	225	235	250	260	265	370	400	515	550	600	630	680
W	120	140	140	160	160	180	200	220	250	300	350	400	450	500	500
PN40(DIN 3202–F1)															
DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
L–RF	130	150	160	180	200	230	290	310	350	400	480	600	730	850	980
H	195	200	220	225	235	250	260	265	370	400	515	550	600	630	680
W	120	140	140	160	160	180	200	220	250	300	350	400	450	500	500