

KOFLow

GLOBE VALVE SERIES

32-42P

FIGURE NUMBER SYSTEM

Steel Globe Valve Figure Number System



1	Size	Xxin; xx, mm					
2	Operation type	1-Bare Stem	2-Chain-Wheel Operated	4-Spur Gear Operated	5-Cone Gear Operated	9-Eledtrid Operated	Manual Operated (omit)
3	Valve Type	J-Globe Valve					
4	Pressure	0-PN1.0	1-PN1.6 class150	2-PN2.5	3-class300	4-PN4.0 class400	6-PN6.4 class600
		9-class900	10-PN10.0	15-class1500	16-PN16.0	20-PN20.0	25-class2500
5	Connection Ends	RF-Raised Face	FF-Flat Face	MFM-Male and Female Face	TG-Tongue and Groove face	RJ-Ring Joint	BW-Buttweld
6	Structure Type	1-Through Way type					
7	Basic Material	C-WCB	C-C5	C6-WC6	C9-WC9	BL-LCB	CL-LCC
		8-CF8	8M-CF8M	3-CF3	3M-CF3M	ML-MONEL	
8	Material of Seat face or Liner	H-S.S		E-18-8 S.S		R-Mo2Ti S.S	
		D-nitriding steel		M- Monel Alloy		Y-Stellted	

Note:

- 1、Use "W" to express seat sealing surface material which is processed directly by valve body.
- 2、When the materials of sealing surfaces are different, use low hardness material symbol to express.
- 3、Special requirements not shown ,should be indicated in the purchase order
- 4、The models listed in the sample book have no reference to pressure、 sizes and valve material symbols, they are to be decided by users.

For example

6 "-5J6RJ1CY

Globe valve, 6 " ANSI CLASS600, RTJ Flange Ends, Through Way Type, Body&Bonnet&Disc Cast Steel WCB, Hard face Seat, Cone Gear operated

65-J1RF1CH

Globe valve, DN65 PN16, Raised Face Ends, Through Way Type, Body&Bonnet& Disc Cast Steel WCB, Seat sealing Material 13Cr, Handwheel operated

GB GLOBE VALVE

Design characteristics of GB Globe Valve

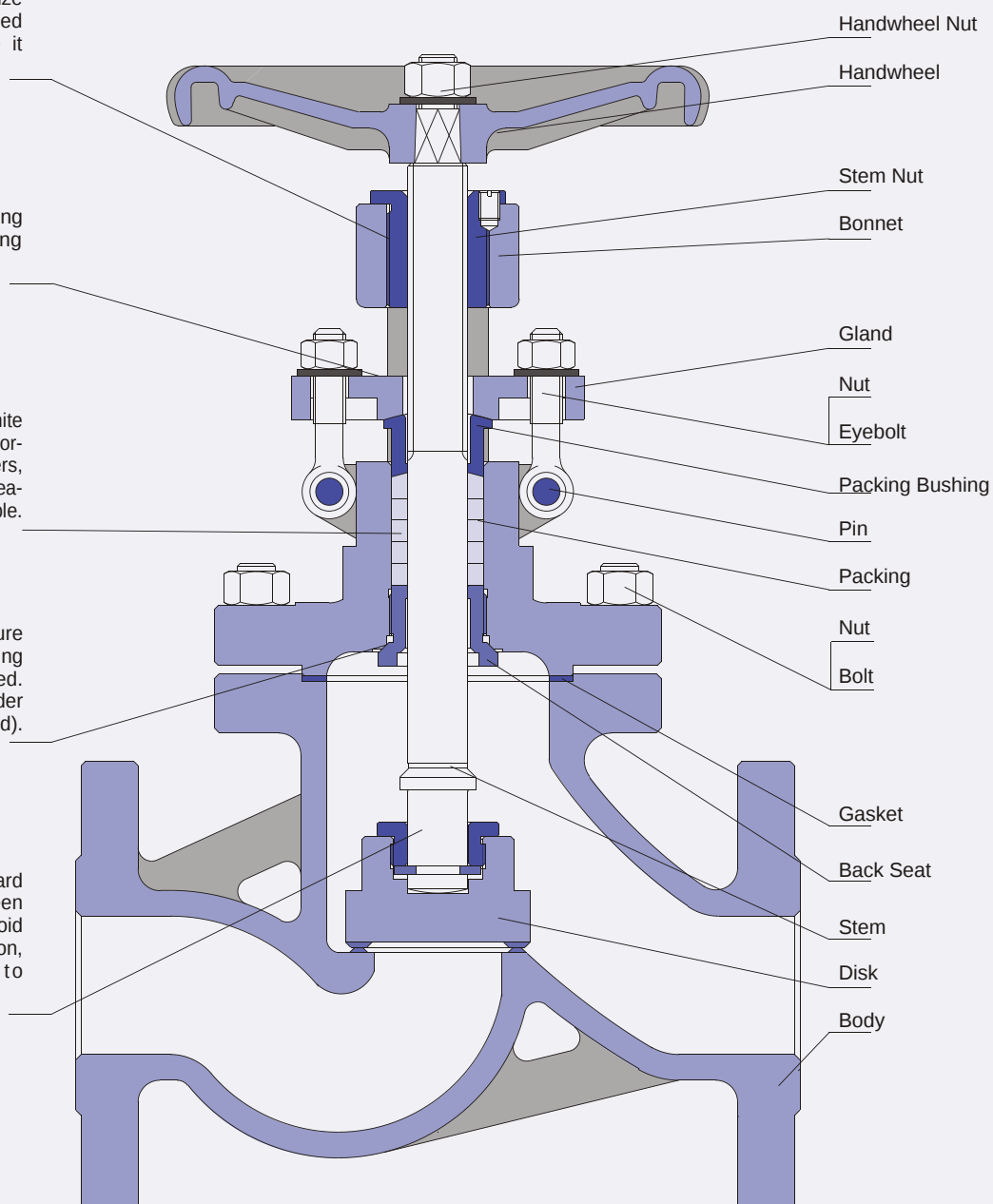
Stem nut uses aluminum bronze material. Large valve is provided with thrust bearing to make it opened easily and flexibly.

Two-piece design of packing gland to avoid stem clogging caused by squishing.

Packing uses flexible graphite for dependable sealing performance. If requested by users, packing spacer ring and greasing mechanism can be available.

Back seal design to ensure dependable packing and sealing when valve is fully opened. (Replacement of packing under pressure is not recommended).

Lift stem, with a piece of hard stainless steel inlaid between stem head and disc to avoid deformation caused by extrusion, and corrosion leading to inflexibility of disc action.



Remark:

- 1、 Type of end connection referred to Appendix I
- 2、 Seal Type of Disc and Seat referred to Appendix III
- 3、 Type of body and bonnet connection referred to Appendix IV
- 4、 Stem packing structure referred to Appendix V
- 5、 Valve operation referred to Appendix VI

GB GLOBE VALVE

Materials list for GB Cast steel Globe Valve

No.	Part Name	Carbon Steel	Stainless Steel	Alloy Steel	Low Temperature Steel
1	Body	WCB	CF8	WC6	LCB
3	Disk	WCB	CF8	WC6	LCB
4	Stem	1Cr13	0Cr18Ni9(304)	25Cr2Mo1VA(F22)	0Cr18Ni9(304)
5	Stud	35CrMoA	0Cr18Ni9(304)	35CrMoA	0Cr18Ni9(304)
6	Nut	35	0Cr18Ni9(304)	35CrMoA	0Cr18Ni9(304)
7	Back Seat	1Cr13	0Cr18Ni9(F304)	0Cr18Ni9(F304)	0Cr18Ni9(F304)
8	Gasket	Graphite+SS304			
9	Packing	Graphite			Graphite/PTFE
10	Pin	35	0Cr18Ni9(304)	1Cr13	0Cr18Ni9(F304)
11	Packing Bushing	2Cr13	0Cr18Ni9(F304)	1Cr13	0Cr18Ni9(F304)
12	Eyebolt	35CrMoA	0Cr18Ni9(304)	35CrMoA	0Cr18Ni9(304)
13	Eyebolt Nut	35	0Cr18Ni9(304)	35CrMoA	0Cr18Ni9(304)
14	Gland	WCB	CF8	WCB	LCB
15	Bonnet	WCB	CF8	WC6	LCB
16	Stem Nut	ZCuAl10Fe3	ZCuAl10Fe3	ZCuAl10Fe3	ZCuAl10Fe3
17	Handwheel	QT400-17	QT400-17	QT400-17	QT400-17
18	Handwheel Nut	35	0Cr18Ni9(F304)	35	0Cr18Ni9(F304)

Remark:

- 1、Select different materials for different working temperature and media
- 2、Trim materials and recommended service coverage referred to Appendix VII

GB Cast steel Globe valve Product Line

Pressure	Operated type	Size														
		10	15	20	25	32	40	50	65	80	100	125	150	200	250	300
PN1.6	Manual Operated	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Electric Operated							*	*	*	*	*	*	*	*	*
PN2.5	Manual Operated	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Electric Operated							*	*	*	*	*	*	*	*	*
PN4.0	Manual Operated	*	*	*	*	*	*	*	*	*	*	*	*	*		
	Electric Operated							*	*	*	*	*	*	*		
PN6.4	Manual Operated	*	*	*	*	*	*	*	*	*	*	*	*	*		
	Electric Operated							*	*	*	*	*	*	*		
PN10.0	Manual Operated	*	*	*	*	*	*	*	*	*	*	*	*	*		
	Electric Operated							*	*	*	*	*	*	*		
PN16.0	Manual Operated		*	*	*	*	*	*	*	*	*					
	Electric Operated							*	*	*	*	*	*	*		

For sizes and classes not shown, please contact our Sales Department

GB GLOBE VALVE

Torque Table

The torque values listed in the following table havenot been measured in practice but only serve asreference for selecting the actuator. The medium characteristics, internal parts and valve opening frequency remain to be takeinto account as extra factors.

Size	Pressure(MPa)						N.m
	PN1.6	PN2.5	PN4.0	PN6.4	PN10.0	PN16.0	
40	24	29	35	46	63	102	
50	38	43	60	66	125	196	
65	48	53	71	97	201	296	
80	79	86	138	207	296	588	
100	98	108	214	310	394	774	
125	161	171	322	414	592	116*9	
150	245	262	461	620	789	1623	
200	313	349	642	827	1154	2244	

Flow Coefficient Table

The flow coefficient of a valve is an index for measuring its flow capacity. The larger its flow coefficient value is, the smaller pressure loss it will have when the fluid flows through it. The following is the flow coefficient table for GB wedge gate valve (Cv stands for the US gallonage of +60° F (+16°C) water per minute flowing through the valve with a pressure drop of 1 lb./inch² (0.006894757MPa).

Cv

Size	80	100	125	150	200	250	300
Cv	105	189	318	428	798	1240	1859

Technical Specification

Design Standard		GB/T 12235					
Pressure-Temperature Rating		GB/T 12224					
Face-Face		GB/T 12221、GB/T15188.1					
Flange Ends		GB/T9113、JB/T79					
Butt welding Ends		GB/T 12224					
Inspection & Test		JB/T9092、GB/T13927					
Test Pressure	Normal Pressure	PN1.6	PN2.5	PN4.0	PN6.4	PN10.0	PN16.0
	Shell Test	2.4	3.75	6.0	9.6	15.0	24.0
	High Pressure Seal Test	1.76	2.75	4.4	7.04	11.0	17.6
	Low Pressure Seal Test	0.6					

GB GLOBE VALVE

Pressure: PN1.6~2.5

Main Dimensions & Weight

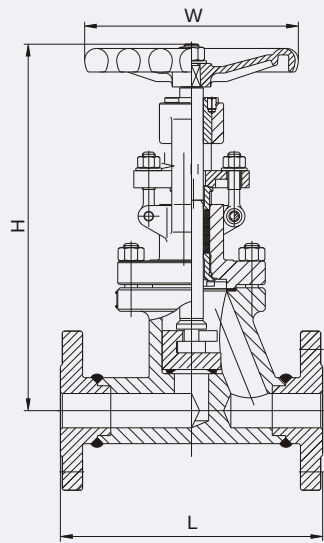


Fig.JRF1

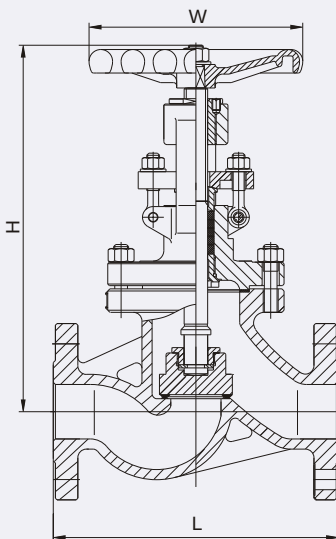


Fig.JRF1

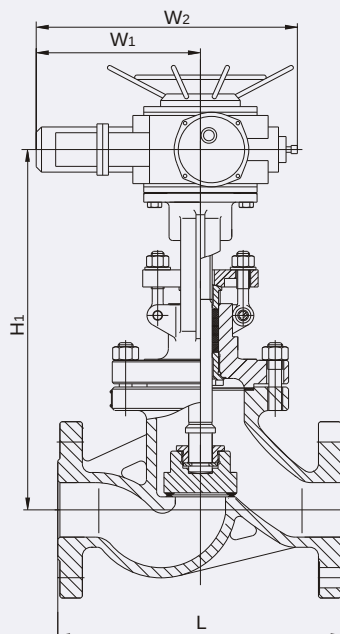


Fig.9JRF1

CLASS	Size	Dimensions						Operator	Weight (kg)	
		L	H	W	H ₁	W ₁	W ₂		Manual Operated	Electric
PN1.6	10	130	198	120	-	-	-	-	4.7	-
	15	130	218	120	-	-	-	-	5.2	-
	20	150	258	140	-	-	-	-	7.1	-
	25	160	275	160	-	-	-	-	7.4	-
	32	180	280	180	-	-	-	-	8.5	-
	40	200	330	200	-	-	-	-	12.5	-
	50	230	350	240	645	371	590	DZW10A	14	48
	65	290	355	280	690	371	590	DZW10A	22.5	60
	80	310	400	280	715	371	590	DZW10A	29	65
	100	350	415	320	770	371	590	DZW15A	32.5	71
	125	400	460	360	780	371	590	DZW20A	80	119
	150	480	510	400	810	371	590	DZW30A	93.5	210
	200	600	710	400	967	515	810	DZW45A	180	320
	250	650	786	450	1143	515	810	DZW60A	440	550
	300	750	925	500	1292	540	830	DZW90	648	785
PN2.5	10	130	198	120	-	-	-	-	4.9	-
	15	130	218	120	-	-	-	-	5.4	-
	20	150	258	140	-	-	-	-	7	-
	25	160	275	160	-	-	-	-	7.4	-
	32	180	280	180	-	-	-	-	8.5	-
	40	200	330	200	-	-	-	-	12.5	-
	50	230	350	240	645	371	590	DZW10A	16	50
	65	290	355	280	690	371	590	DZW10A	25	62
	80	310	400	280	715	371	590	DZW10A	30	67
	100	350	415	320	770	371	590	DZW15A	34.5	73
	125	400	460	360	780	371	590	DZW20A	89	127
	150	480	510	400	875	371	810	DZW30A	98	215
	200	600	710	400	967	515	810	DZW45A	180	322
	250	650	786	450	1153	515	830	DZW60A	446	585
	300	750	925	500	1292	540	830	DZW90	654	795

Note: the electric device listed is from YANGXIU.
If requested, other electric devices or drive units may be available.

GB GLOBE VALVE

Pressure: PN4.0~16.0

Main Dimensions & Weight

To be Continued

Pressure	Size	Dimensions						Operator	Weight (kg)	
		L	H	W	H ₁	W ₁	W ₂		Manual Operated	Electric
PN4.0	10	130	198	120	-	-	-	-	4.9	-
	15	130	233	120	-	-	-	-	5.7	-
	20	150	275	140	-	-	-	-	7	-
	25	160	285	160	-	-	-	-	8.8	-
	32	180	302	180	-	-	-	-	11.8	-
	40	200	355	200	-	-	-	-	16.5	-
	50	230	373	240	645	371	590	DZW10A	24	61
	65	290	408	280	690	371	590	DZW10A	33	75
	80	310	436	320	715	371	590	DZW20A	44	84
	100	350	480	360	770	371	590	DZW30A	60	101
	125	400	558	400	782	515	810	DZW45A	89	207
	150	480	611	400	875	515	810	DZW60A	98	226
	200	600	720	400	1160	540	830	DZW90	190	399
PN6.4	10	170	198	120	-	-	-	-	5.7	-
	15	170	195	140	-	-	-	-	10	-
	20	190	228	160	-	-	-	-	13	-
	25	210	275	180	-	-	-	-	14.5	-
	32	230	325	200	-	-	-	-	19	-
	40	260	360	240	-	-	-	-	25	-
	50	300	410	280	710	371	590	DZW10A	35	64
	65	340	450	320	750	371	590	DZW15A	48	77
	80	380	485	360	785	371	590	DZW30A	56	86
	100	430	537	400	837	515	810	DZW45A	125	171
	125	500	631	400	1031	515	810	DZW60A	131	243
	150	550	646	450	1066	540	830	DZW90	157	296
	200	650	813	500	1213	540	830	DZW120	283	420
PN10.0	10	170	198	120	-	-	-	-	6	-
	15	170	202	140	-	-	-	-	11	-
	20	190	228	160	-	-	-	-	13.2	-
	25	210	250	180	-	-	-	-	14	-
	32	230	326	220	-	-	-	-	15	-
	40	260	359	240	-	-	-	-	29	-
	50	300	414	280	710	371	590	DZW20A	49	81
	65	340	434	320	750	371	590	DZW30A	65	102
	80	380	547	400	785	515	810	DZW45A	95	175
	100	430	621	450	950	515	810	DZW60A	115	194
	125	500	732	450	1142	540	830	DZW90	149	285
	150	550	840	500	1240	540	830	DZW120	310	450
	200	650	925	550	1425	565	870	DZW180	590	850
PN16.0	15	170	148	140	-	-	-	-	12.2	-
	20	190	156	160	-	-	-	-	15	-
	25	210	175	180	-	-	-	-	17	-
	32	230	200	200	-	-	-	-	21.4	-
	40	260	231	240	-	-	-	-	32	-
	50	300	262	250	562	371	590	DZW30A	52	92
	65	340	303	320	743	515	810	DZW45A	69	165
	80	380	341	400	820	540	830	DZW90	98	216
	100	430	485	450	935	540	830	DZW120	119	238
	125	500	-	-	1180	565	870	DZW180	-	490
	150	550	-	-	1290	565	870	DZW250	-	674
	200	650	-	-	1495	770	1170	DZW350	-	1120

Note: the electric device listed is from YANGXIU. If requested, other electric devices or drive units may be available.