



# Contributing to safer and smarter pipe network flow control

## Bolted Bonnet Globe Valve

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# BRIFE INTRODUCTION

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Founded in 2012, KAMROO Holding Group is an innovative integrator focusing on "smart" manufacturing of valves. The core products are suitable for tough working applications such as low temperature, high temperature, high pressure, strong corrosion, and solids mixed medium. KAMROO products are suitable for industries such as Oil&Gas, Refinery, Chemical, Natural Gas, Power Plant, Metallurgy, Electronics, and new energy. The equivalent standards cover many industrial pipelines fields.

KAMROO strives to create an automation, digital, and intelligent platform, integrates profound technical accumulation and professional wisdom of the team. We also provide superior product support and technical services for domestic and international clients, as well as provide customized solutions for end user.

KAMROO adheres to customer-oriented principle and guarantees system compatibility. We will continue to maintain the attitude and belief of concentration and ingenuity, adhering to safer, more reliable and smarter pipeline flow control technology and advanced design concepts to help you optimize the working application, improve the efficiency and save the costs.

With a flexible and open attitude, KAMROO listens to the voice of the market and embraces multiculturalism. KAMROO focuses on the construction of a global service system, and strives to become the preferred partner in the field of flow control. No matter where you are in the world, we look forward to keeping in close contact with you to understand your specific needs and provide precise services.





CE



CE Cert



API 6D cert

EAC



EAC Cert



Service Cert

# QUALIFICATION CERTIFICATE



ISO



ISO 15848-1

ISO



ISO 14001

ISO



ISO 45001:2018

ISO



ISO 9001

# BOLTED BONNET GLOBE VALVE

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<b>DESIGN STANDARDS</b>	API623, BS1873, ASME B16.34, etc.
<b>SIZE RANGE</b>	NPS2~NPS24, DN50~DN600
<b>NOMINAL PRESSURE</b>	CLASS150~CLASS2500
<b>CONNECTION</b>	RF, RTJ, BW, etc.
<b>MATERIALS</b>	ASTM A216 WCB, ASTM A352 LCB, ASTM A217 WC6, ASTM A217 WC9, ASTM A351 CF8, ASTM A351 CF8M, A995 4A, etc.
<b>APPLICABLE TEMPERATURE</b>	-29°C~425°C
<b>APPLICABLE MEDIUM</b>	Oil, Gas, Water, Steam, etc.
<b>OPERATION</b>	Handwheel, Gear, Pneumatic, Electric, etc.

## OUTSIDE SCREW AND YOKE

The external side of the stem is threaded, while the section inside the valve is plain. Valve stem threads are isolated from medium by packing, which keeps the stem threads outside the valve body to avoid damage from high temperatures, corrosives, and solids within the valve. The external screw can be maintained from the outside, making it the preferred choice for demanding applications.

## BODY/BONNET CONNECTION

KAMROO globe valves are available with bolted and pressure-sealed bonnet, depending on its pressure rating or customer requirements.

## BODY/BONNET SEALING

KAMROO offers stainless steel with graphite spiral wound gaskets for bolted bonnet globe valves in pressure rating Class 15 to Class 600, and Octagonal ring fittings as standard for bolted bonnet globe valves in pressure rating Class 900 and above. Pressure seal bonnet design are usually used for valve pressure rating Class 900 and above to make it sealed. The common used material for the gasket is flexible steel ring or graphite.

## ONE-PIECE FORGED MATERIAL STEM

The stem of the globe valve provided by KAMROO is made of one-piece forged material. The precision thread machining and high surface finish of the stem ensure the reliable performance of the stem and the perfect tightness of the packing contact area.

## STEM PACKING

Molded flexible graphite is used for packing material. PTFE or composite packing material can also be used according to customer requirements. The inner surface of the stuffing box has a high surface finish at the contact area with the packing. The surface of the contact between the valve stem and the packing has been precisely machined to achieve the required high finish and density, ensuring the reliable sealing of the valve stem.

## BACK SEAT DESIGN

KAMROO globe valves adopt the back seat design. In most cases, the carbon steel globe valve is fitted with a renewable back seat. For the stainless steel globe valve, the back seat is machined directly in the bonnet or after welding. The sealing of the back-seat is reliable when the globe valve is in a fully open position.

## VARIOUS DISC TYPES

KAMROO globe valves are available of plug type disc, ball type disc, needle type disc and parabolic type disc. Plug type disc is most common used type of disc. It has a flat surface, designed to permit flow passage or stop without regulation, which is suitable for positive shut off service.

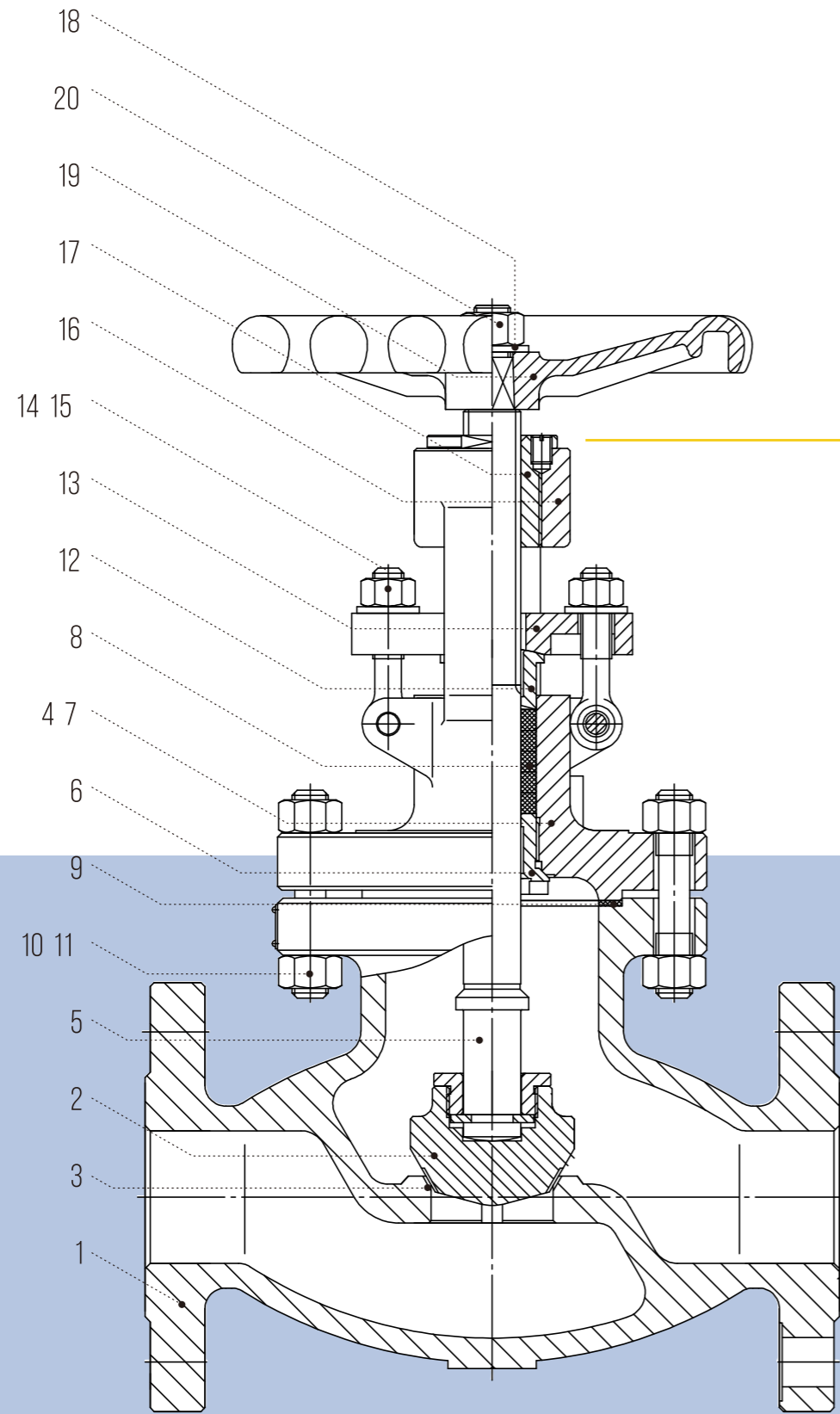
Ball type disc is designed for low-pressure and low-temperature systems with throttling capability, but is more commonly used for shut off service.

Needle type disc is designed to have better flow rate than other discs, which is commonly used for throttling service.

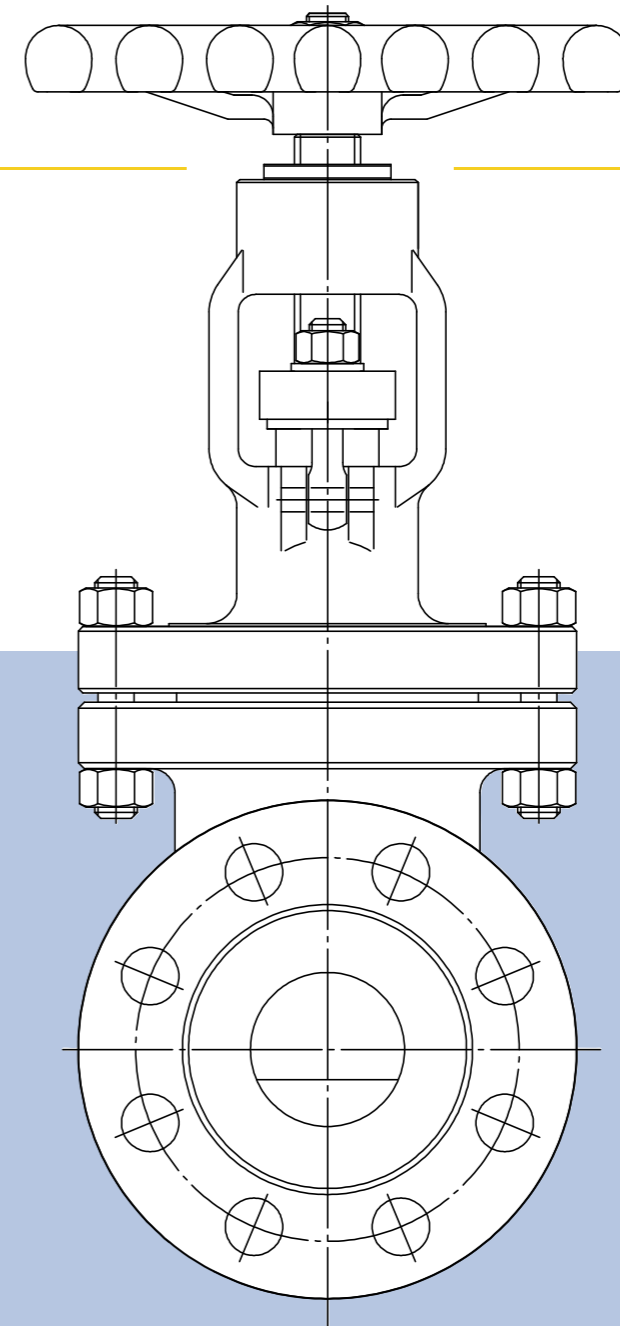
Parabolic type disc is similar to the ball type disc but with higher flow regulation capacity and better wear-resistance capability.

## REPLACEABLE AND INTEGRAL SEAT DESIGN

KAMROO cast steel globe valves are available of both replaceable seat and integral seat design. Carbon steel globe valves are usually with replaceable seat ring either threaded with welding or welded on to body directly. For stainless steel and high temperature alloy steel globe valves, it is recommended that the valve seat is designed as integral valve seat or body sealing surface with hard surfacing welding.



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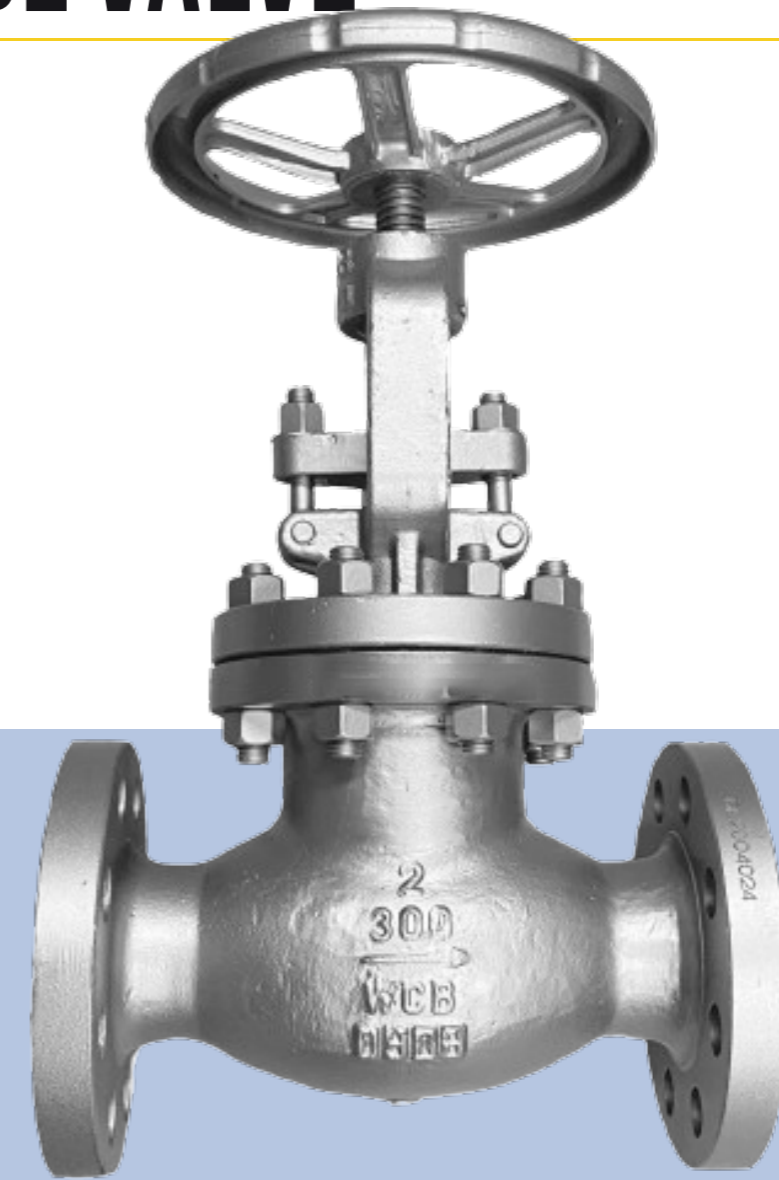
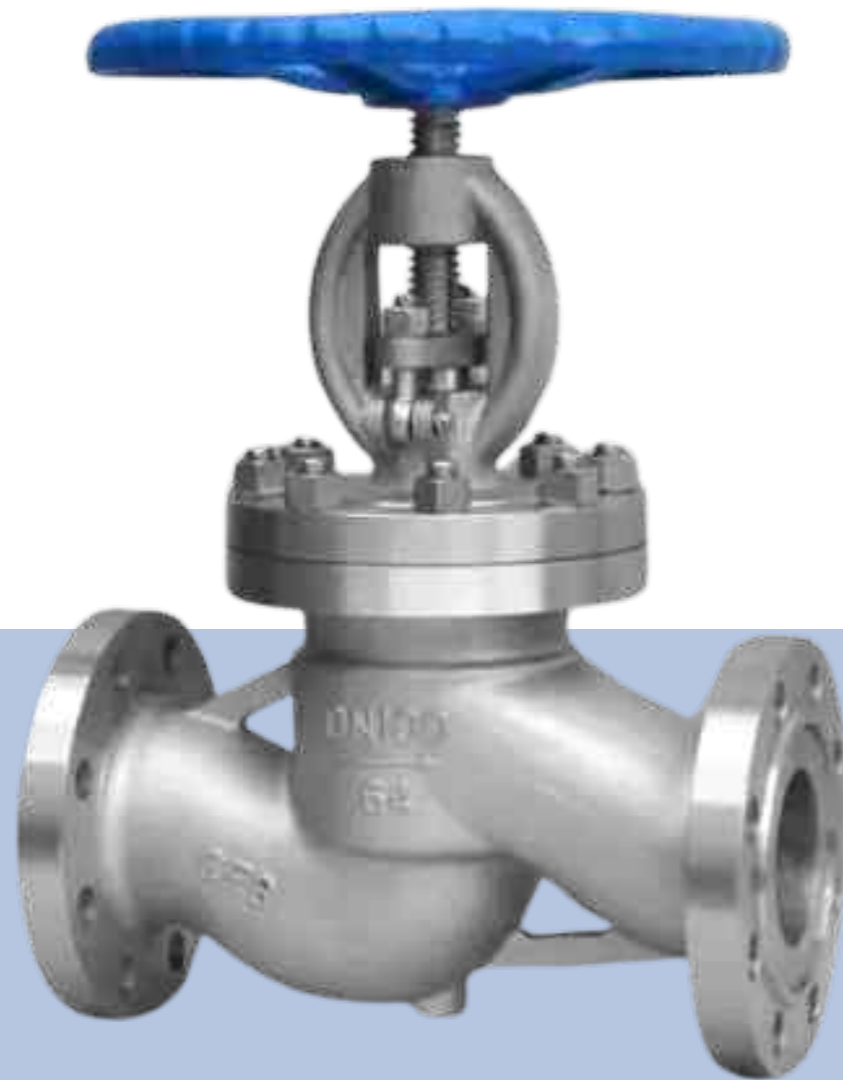
No.	Part Name	Carbon Steel	Cr-Mo Steel	Stainless Steel	L.T. Carbon Steel	Duplex Stainless Steel	AL-Bronze
1	Body	A216 WCB	A217 WC6	A351 CF8M	A352 LCB	A995 5A	B148 C95800
2	Disc	A105+13Cr	A182 F11+HF	A182 F316	A182 F304	A182 F53	B148 C95800
3	Seat	A105+13Cr	A182 F11+HF	A182 F316	A182 F304	A182 F53	B148 C95800
4	Bonnet	A216 WCB	A217 WC6	A351 CF8M	A352 LCB	A995 5A	B148 C95800
5	Stem	A182 F6a	A182 F6a	A182 F316	A182 F304	A182 F53	B148 C95800
6	Backseat	A276 410	A276 410	A182 F316	A182 F304	HF	INTEGRAL
7	Yoke	A216 WCB	A217 WC6	A351 CF8M	A352 LCB	A995 5A	B148 C95800
8	Packcing	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite	Flexible Graphite	PTFE
9	Gasket	SPW SS304+GRAPHITE	SPW SS304+GRAPHITE	SPW SS304+GRAPHITE	SPW SS304+GRAPHITE	SPW SS304+GRAPHITE	SPW SS304+GRAPHITE
10	Bonnet Blot	A193 B7	A193 B16	A193 B8	A320 L7	A193 B8M	A193 B8M
11	Bonnet Nut	A194 2H	A194 4	A194 8	A194 7	A194 8M	A194 8M
12	Packing Gland	A276 410	A276 410	A182 F316	A182 F304	A182 F53	B148 C95800
13	Gland Flange	A216 WCB	A217 WC6	A351 CF8M	A352 LCB	A995 5A	B148 C95800
14	Eye Bolt	A193 B7	A193 B16	A193 B8	A320 L7	A193 B8M	A193 B8M
15	Eye Bolt Nut	A194 2H	A194 4	A194 8	A194 7	A194 8M	A194 8M
16	Stem Nut	Aluminum-Bronze	Aluminum-Bronze	Aluminum-Bronze	Aluminum-Bronze	Aluminum-Bronze	Aluminum-Bronze
17	Grease Cup	Brass+Steel	Brass+Steel	Brass+Steel	Brass+Steel	Brass+Steel	Brass+Steel
18	Bearing Gland	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel
19	Hand Wheel	Malleable Iron	Malleable Iron	Malleable Iron	Malleable Iron	Malleable Iron	Malleable Iron
20	Lock Nut	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel

**Optional Body Material:**

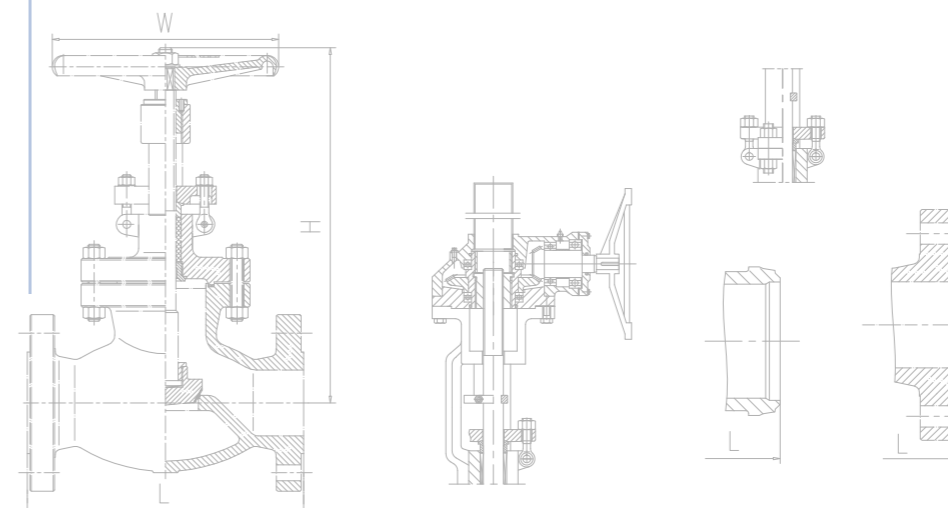
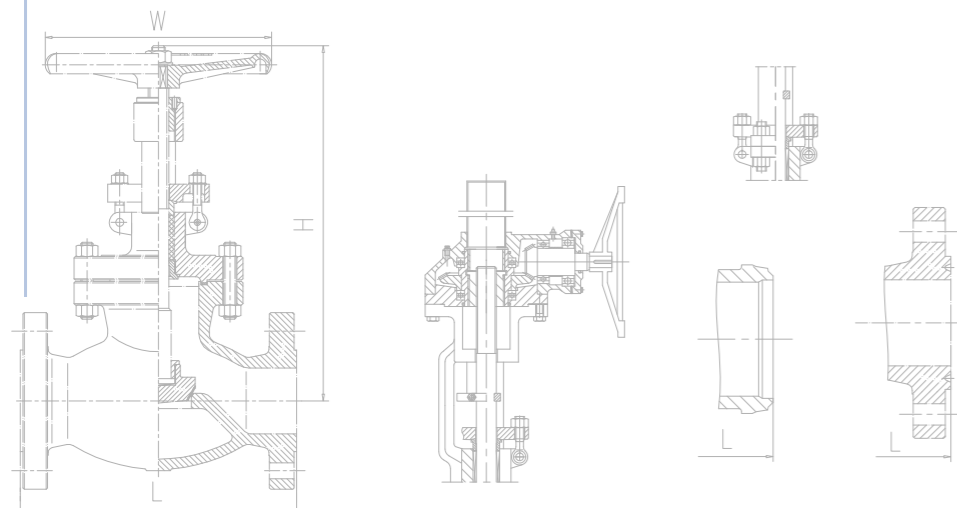
A105/WCC, A352 LCB/LCC, A351 CF8/CF3/CF8M/CF3M, A890 4A/5A/6A, B148 C95800, Alloy Steel ect..

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Remark: "/" in tablet are non-standard size, please confirm with KAMROO

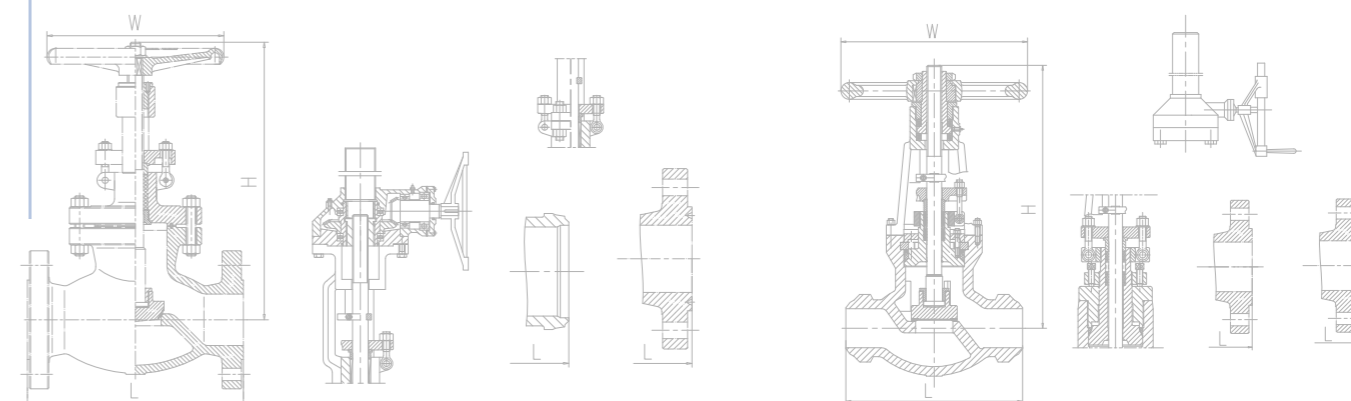
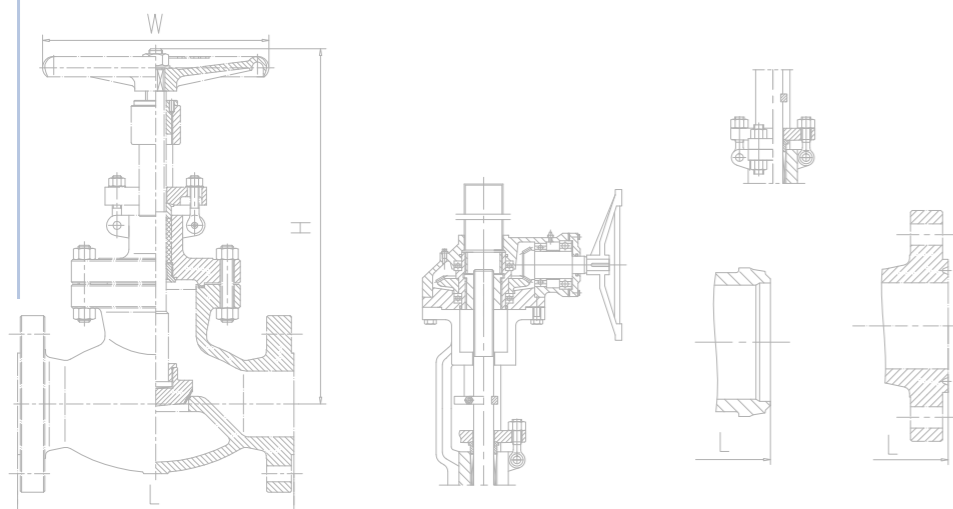
### CLASS 150

DN	NPS	RF/FF	L				Weight (kg)	
			BW	RTJ	H	W	RF	BW
50	2	203	203	216	350	220	21	18
65	2 1/2	216	216	229	362	250	29	24
80	3	241	241	254	385	280	34	30
100	4	292	292	305	490	320	54	47
125	5	356	356	369	455	320	72	58
150	6	406	406	419	537	400	93	75
200	8	495	495	508	706	450	175	135
250	10	622	622	635	785	500	268	215
300	12	698	698	711	820	600	400	295
350	14	787	787	800	895	600	650	550
400	16	914	914	927	930	720	850	725
450	18	978	978	991	980	720	920	800
500	20	978	978	-	1028	720	1450	1200
600	24	1295	1295	-	1135	850	1950	1675

### CLASS 300

DN	NPS	RF/FF	L				Weight (kg)	
			BW	RTJ	H	W	RF	BW
50	2	267	267	283	350	250	26	21
65	2 1/2	292	292	308	377	250	36	29
80	3	318	318	333	405	280	50	38
100	4	356	356	371	468	320	75	59
125	5	400	400	416	620	400	140	104
150	6	445	445	460	708	450	200	137
200	8	559	559	575	777	500	287	237
250	10	622	622	638	935	600	510	432
300	12	711	711	727	955	600	720	632
350	14	838	838	-	961	600	1120	975
400	16	864	864	-	1010	610	1650	1450
450	18	978	978	-	1060	610	2700	2400
500	20	1016	1016	-	1100	720	3650	3200
600	24	1346	1346	-	1249	720	-	-

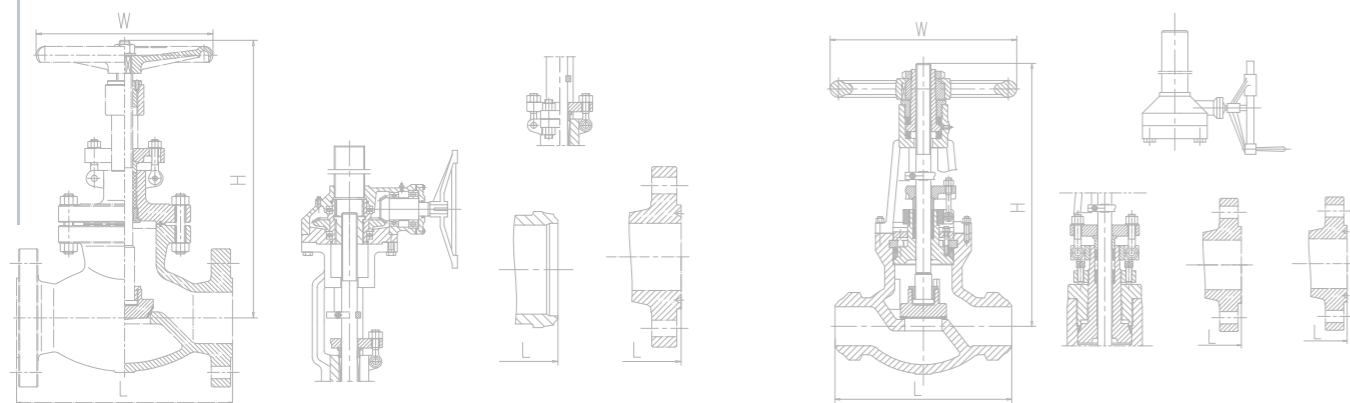



**CLASS 600**

DN	NPS	RF/FF	L				Weight (kg)	
			BW	RTJ	H	W	RF	BW
50	2	292	292	295	685	280	32	25
65	2 1/2	330	330	333	430	280	45	35
80	3	356	356	359	475	320	62	50
100	4	432	432	435	685	400	139	120
125	5	508	508	511	770	500	240	190
150	6	559	559	562	901	550	342	285
200	8	660	660	663	913	600	480	420
250	10	787	787	790	1060	700	870	785
300	12	838	838	841	1227	-	980	830
350	14	889	889	892	1320	-	1260	1050
400	16	991	991	994	1540	-	1650	1290
450	18	1092	1092	1095	1720	-	2300	1950

**CLASS 900**

DN	NPS	RF/FF	L				Weight (kg)	
			BW	RTJ	H	W	RF	BW
50	2	368	368	371	430	320	65	53
65	2 1/2	419	419	422	580	320	80	65
80	3	381	381	384	675	350	105	85
100	4	457	457	460	780	500	215	185
125	5	559	559	562	815	600	250	195
150	6	610	610	613	870	600	340	280
200	8	737	737	740	980	600	580	485
250	10	838	838	841	1010	800	780	640
300	12	965	965	968	1300	800	1100	920
350	14	1029	1029	1039	1395	800	1800	1580
400	16	1130	1130	1140	1590	800	2500	2230



**CLASS 1500**

			L				Weight (kg)	
DN	NPS	RF/FF	BW	RTJ	H	W	RF	BW
50	2	368	368	371	430	320	85	69
65	2 1/2	419	419	422	500	400	135	112
80	3	470	470	473	750	450	215	182
100	4	546	546	549	820	600	350	302
125	5	673	673	676	860	600	450	346
150	6	705	705	711	910	700	550	443
200	8	832	832	842	1015	800	960	786
250	10	991	991	1001	1135	-	1480	1200
300	12	1130	1130	1146	1350	-	2530	2140
350	14	1257	1257	1276	1460	-	-	-

**CLASS 2500**

			L				Weight (kg)	
DN	NPS	RF/FF	BW	RTJ	H	W	RF	BW
50	2	451	451	454	680	400	165	130
65	2 1/2	508	508	514	760	500	255	202
80	3	578	578	584	840	500	295	210
100	4	673	673	683	1180	600	730	615
125	5	794	794	807	1450	600	1150	900
150	6	914	914	927	1790	600	1850	1590
200	8	1022	1022	1036	2250	800	3950	3490
250	10	1270	1270	1292	2950	800	4960	3950