

API

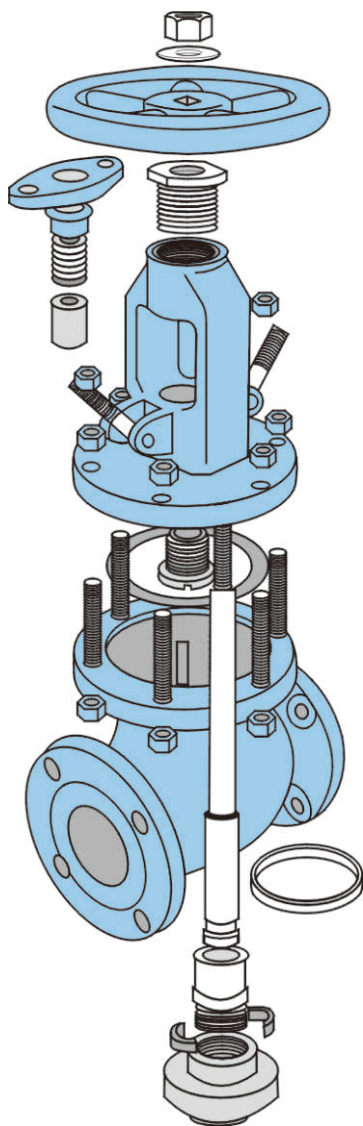
Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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Россия (495)268-04-70	Киргизия (996)312-96-26-47	Казахстан (7172)727-132	

Steel Globe Valve

TEK VALVE



Standards

Design and Manufacture: Cast steel globe valve to BS 1873 and ASME B16.34; Forged steel globe valve to API 602.
Inspection and Test: API 598.
End flange dimension: ASME B16.5.
BW end dimension: ASME B16.25.
Socket-weld dimension: ASME B16.11.
Face to face and end to end: ASME B16.10.
Pressure-temperature ratings: ASME B16.34.

The features of globe valve

Bolted Bonnet; Outside Screw and Yoke; Rising stems; Metallic seating surfaces.

Body and Bonnet Connection

The body and bonnet of Class150 ~ Class900 globe valves are usually with studs and nuts. And the body and bonnet of Class1500 ~ Class2500 globe valves are usually of pressure seal design.

Gasket of Cover Flange

Stainless steel + flexible graphite wounded gasket is used for Class150 and Class300 globe valve. Stainless steel + flexible graphite wounded gasket is used for Class 600, and ring joint gasket is also optional for Class600. Ring joint gasket is used for Class900 globe valve. Pressurized seal design is used for Class 1500 ~ Class2500 globe valve.

Actuation

Hand wheel, impact hand wheel & gear box is usually used for globe valve actuation. Chain wheel and electric actuator can be also used for globe valve actuation if being requested by the customers.

Packing Seal

Molded flexible graphite is used for packing material. PTFE or combined packing material can be also used if being requested by the customer. The internal surface of the stuffing box, of which area is contacted with the packing, is of excellent finish ($Ra\ 3.2\ \mu\text{m}$). The stem surface, contacting with the packing, should be rolled and pressed after being precisely machined, so as to reach to the high finish and com-pactness ($Ra\ 0.8\ \mu\text{m}$) and ensure the reliable tightness of the stem area.

Belleville Spring Loaded Packing Impacting System

If being requested by the customer, the Belleville spring loaded packing impacting can be adopted for enhancing the durability and reliability of the packing seal.

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Trim material

Trim code	Seat ring surface	Wedge seat surface	Stem & backseat bushing
1	13Cr	13Cr	A182 F6a
2	18Cr-8Ni	18Cr-8Ni	A182 F304
3	25Cr-20Ni	25Cr-20Ni	A182 F310
4	Hard 13Cr	Hard 13Cr	A182 F6a
5	Stellite	Stellite	A182 F6a
6	13Cr	Cu-Ni Alloy	Monel
7	13Cr	Hard 13Cr	A182 F6a
8	Stellite	13Cr	A182 F6a
9	Cu-Ni Alloy	Cu-Ni Alloy	Monel
10	18Cr-8Ni-Mo	18Cr-8Ni-Mo	A182 F316
11	Cu-Ni Alloy	Cu-Ni Alloy	Monel
12	Stellite	18Cr-8Ni-Mo	A182 F316
13	19Cr-29Ni	19Cr-29Ni	20 Alloy

ASTM Material list of BS1873 Cast Steel Globe Valve

No	Part Name	Carbon Steel to ASTM		Stainless Steel to ASTM				Alloy Steel to ASTM		
1	Body	A216 WCB	A352 LCB	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A217 WC6	A217 WC9	A217 C5
2	Bonnet	A216 WCB	A352 LCB	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A217 WC6	A217 WC9	A217 C5
3	Disc	A216 WCB	A352 LCB	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A217 WC6	A217 WC9	A217 C5
4	Seating Ring	A105N	A350LF2	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A182 F11	A182 F22	A182 F5
5	Gasket	Graphite+SS304, PTFE								
6	Stem	A182 F6a	A182 F304	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F304		
7	Disc Nut	A182 F6a	A182 F304	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F304		
8	Backseat Bushing	A182 F6a	A182 F304	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F304		
9	Stem Packing	Flexible Graphite								
10	Lantern Ring	A182 F6a	A182 F304	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F304		
11	Thrust Washer	A182 F6a	A182 F304	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F304		
12	Nut	A194 2H	A194 4	A194 8				A194 7		
13	Bolt	A193 B7	A320 L7	A193 B8				A193 B16		
14	Anti-rotating Device	ANSI 1020		A182 F304				ANSI 1020		
15	Gland	A194 2H		A194 8				A194 2H		
16	Screw	F6a	A182 F304	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F304		
17	Gland Flange	A216 WCB	A352 LCB	A351 CF8	A351 CF8	A351 CF8	A351 CF8	A217 WC6	A217 WC9	A217 C5
18	Gland Eyebolt	A193 B7		A193 B8				A193 B16		
19	Gland Nut	A194 2H		A194 8				A194 7		
20	Pin	ANSI 1045		A182 F304				ANSI 1045		
21	Stem Nut	A439 D2/ B148 952A								
22	Bearing	/								
23	Retaining Nut	ANSI 1020								
24	Nipple	Copper Alloy								
25	Bevel gearbox	/								

API SERIES

DIN SERIES

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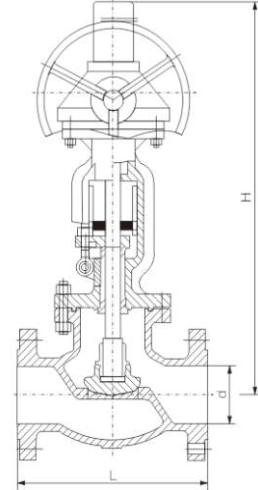
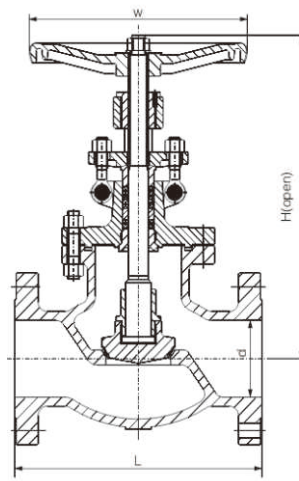
TEK VALVE

Construction feature

- Bolted bonnet
- Flat or plug type disc
- Renewable seat
(Threaded or welded seat ring)
- Λ 10° Thrust bearing design

API598 Pressure Test

- Pressure ratings . . Class150
- Hydraulic Shell test . . 3.2MPa
- Hydraulic Seat test . . 2.2MPa
- Air test . . 0.6MPa



Class	Size		Dimensions (mm)								Weight (Kg)	
	NPS	DN	L			d	H	H1	W	W1	H.W	G.O
			RF	RTJ	BW							
Class 150	2	50	203	216	203	51	330	-	200	-	19	-
	2 1/2	65	216	229	216	64	360	-	250	-	27	-
	3	80	241	254	241	76	390	-	280	-	36	-
	4	100	292	305	292	102	445	-	300	-	53	-
	5	125	356	369	356	127	480	-	350	-	75	-
	6	150	406	419	406	152	520	556	350	310	94	126
	8	200	495	508	495	203	600	658	400	310	148	180
	10	250	622	635	622	254	773	805	450	460	242	291
	12	300	698	711	698	305	880	955	500	460	438	480
	14	350	787	800	787	337	950	1100	600	460	-	600
	16	400	914	927	914	387	996	1175	600	460	-	850
	20	500	978	991	978	488	-	1450	-	600	-	1650
24	600	1295	1308	1295	590	-	1690	-	600	-	2200	

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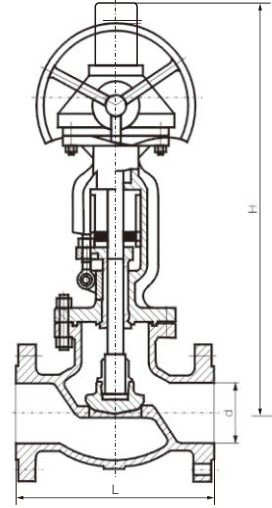
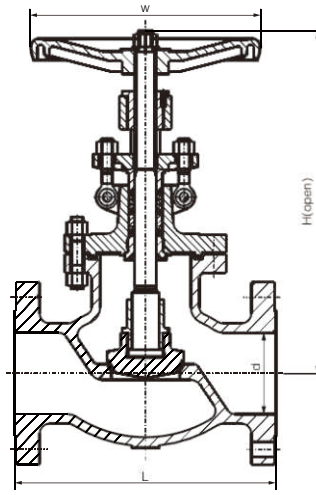
TEK VALVE

Construction feature

- Bolted bonnet
- Flat or plug type disc
- Renewable seat
(Threaded or welded seat ring)
- Λ 10° Thrust bearing design

API598 Pressure Test

- Pressure ratings .. Class300
- Hydraulic Shell test .. 7.8MPa
- Hydraulic Seat test .. 5.7MPa
- Air test .. 0.6MPa



Main size of outside & weight

Class	Size		Dimensions (mm)								Weight (Kg)	
	NPS	DN	L			d	H	H1	W	W1	H.W	G.O
			RF	RTJ	BW							
Class 300	2	50	267	283	267	51	385	-	200	-	25	-
	2 1/2	65	292	308	292	64	420	-	200	-	42	-
	3	80	318	333	318	76	440	-	280	-	46	-
	4	100	356	371	356	102	515	-	350	-	74	-
	5	125	400	416	400	127	580	-	350	-	111	-
	6	150	444	460	444	152	660	690	400	310	165	195
	8	200	559	575	559	203	900	950	550	460	275	327
	10	250	622	638	622	254	950	990	600	460	400	452
	12	300	711	727	711	305	1030	1080	700	460	624	725
	14	350	762	854	762	337	1130	1155	-	600	-	880
	16	400	864	879	864	387	1310	1325	-	600	-	1300
	18	450	977	-	977	431	-	1473	-	720	-	1600
20	500	1016	-	1016	482	-	1574	-	720	-	2100	

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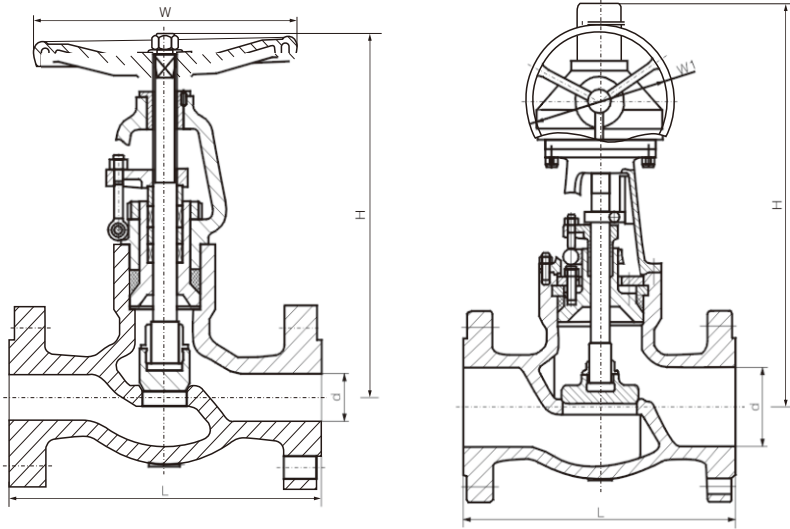
Construction feature

- Bolted bonnet
- Flat or plug type disc
- Renewable seat
(Threaded or welded seat ring)
- ∧ 6" Thrust bearing design

API598 Pressure Test

Pressure ratings .. Class600
 Hydraulic Shell test .. 15.6MPa
 Hydraulic Seat test .. 11.4MPa
 Air test .. 0.6MPa

Pressure ratings .. Class900
 Hydraulic Shell test .. 23.3MPa
 Hydraulic Seat test .. 17.1MPa
 Air test .. 0.6MPa



Main size of outside & weight

Class	Size		Dimensions (mm)							Weight (Kg)		
	NPS	DN	L			d	H	H1	W	W1	H.W	G.O
			RF	RTJ	BW							
Class 600		50	292	295	292	51	360	-	250	-	32	-
	2 1/2	65	330	333	330	64	410	-	280	-	42	-
		80	356	359	356	76	465	-	300	-	63	-
	3	100	432	435	432	102	545	575	400	310	107	138
	4	125	508	511	508	127	625	660	500	310	185	215
	5	150	559	562	559	152	785	820	550	460	290	342
Class 900		50	368	371	368	47	480	-	350	-	55	-
	2 1/2	65	419	422	419	57	520	-	350	-	68	-
		80	381	384	381	73	564	630	400	310	95	128
	3	100	457	460	457	98	685	720	450	310	160	210
	4	125	559	562	559	121	780	840	550	460	270	325
	5	150	610	613	610	146	950	1015	650	460	410	480

Class	DN		RTJ							
	mm	in	L	D	D1	D2	b	n-φd	H	D0
Class 1500	65	2 1/2	422	244	190.5	108.0	49.0	8-φ28.5	461	400
	80	3	473	267	203.2	136.5	55.7	8-φ32	554	450
	100	4	549	311	241.3	161.9	61.8	8-φ35	639	500
	125	5	676	375	292.1	193.7	81.1	8-φ41	780	560
	150	6	711	394	317.5	211.1	92.1	12-φ38	904	630
	200	8	841	483	393.7	269.9	103.0	12-φ44.5	1140	680

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