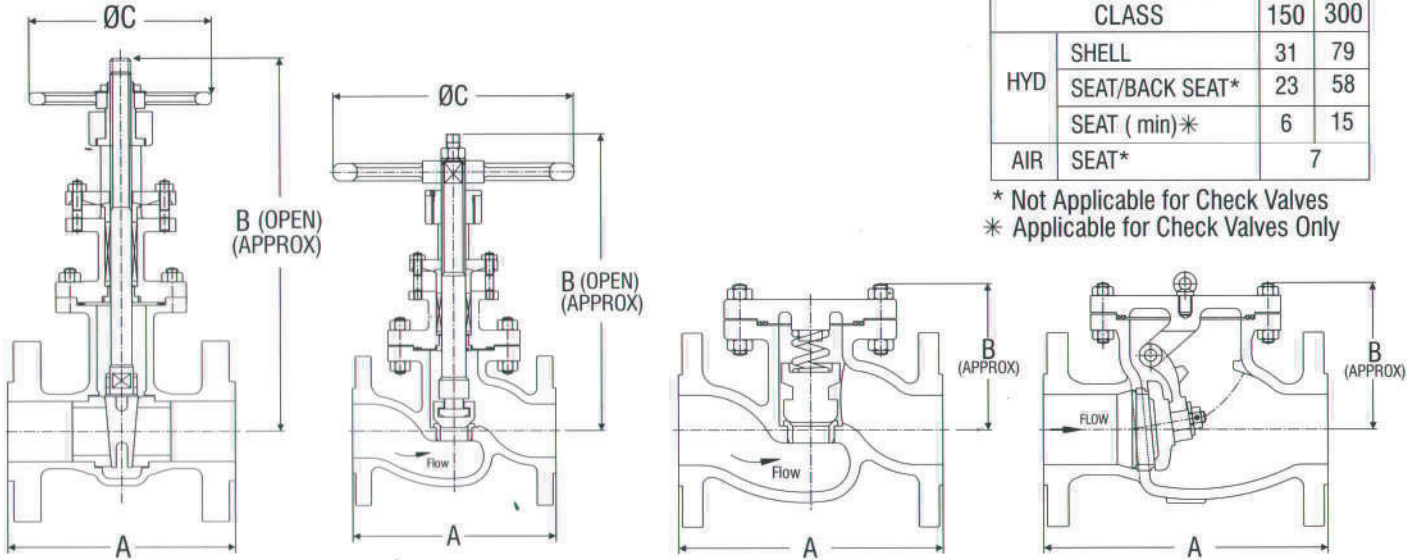


Design standard :

Gate Valve : API 600, API 6D, BS EN ISO 10434  
 Globe Valve : BS 1873  
 Check Valve : BS 1868

Testing standard : API 598, BS EN ISO 12266  
 Pressure rating : Class: 150 - 300  
 Ends : Flanged, class: 150 - 300



TEST PRESSURES in kg/cm <sup>2</sup> (g)			
CLASS		150	300
HYD	SHELL	31	79
	SEAT/BACK SEAT*	23	58
	SEAT (min)*	6	15
AIR	SEAT*	7	

\* Not Applicable for Check Valves  
 \* Applicable for Check Valves Only

All dimensions are in mm

SIZE	Gate Valve						Globe Valve						Lift check Valve				Swing check Valve			
	A		B		Ø C		A		B		Ø C		A		B		A		B	
	CLASS RATING		CLASS RATING		CLASS RATING		CLASS RATING		CLASS RATING		CLASS RATING		CLASS RATING		CLASS RATING		CLASS RATING		CLASS RATING	
	150	300	150	300	150	300	150	300	150	300	150	300	150	300	150	300	150	300	150	300
15	108	140	210	210	100	100	108	152	205	205	100	100	108	152	72	72	---	---	---	---
20	117	152	215	215	100	100	117	178	210	210	100	100	117	178	75	75	---	---	---	---
25	127	165	250	250	150	150	127	203	230	230	150	150	127	203	79	79	---	216	---	---
32	140	178	265	265	150	150	140	216	235	235	150	150	140	216	83	83	---	229	---	---
40	165	190	300	300	200	200	165	229	260	260	200	200	165	229	95	95	165	241	95	95
50	178	216	345	345	200	200	203	267	295	295	200	200	203	267	108	108	203	267	120	120

1) Dimension "A" as per ASME B16.10 2) Flanges as per ASME B16.5

Part Name	Materials of Construction
Body / Bonnet / Cover	WCB / LCB / CF8 / CF8M
Hand Wheel	Malleable iron
Gland / Seat ring / Stem / Bonnet bush	410 / 304 / 316
Yoke sleeve / Yoke bush	A 536 Gr.65 - 45 -12
Wedge / Disc	CA15 / CF8 / CF8M
Gland flange	Carbon steel - Galvanised
packing	Grafoil
Gasket	Spiral wound SS 304 with Grafoil filled
Body stud	A193 Gr.B7 - Zn. plated
Body nut	A194 Gr.2H - Zn. plated
Spring	304 / 316

SIZE	Weights (Approx) in kgs.							
	GTV		GLV		LCV		SCV	
	CLASS RATING							
	150	300	150	300	150	300	150	300
15	4.0	4.6	4.1	4.5	2.9	3.6	---	---
20	4.5	6.1	4.6	6.2	3.4	5.4	---	---
25	6.2	7.4	6.1	7.2	4.6	6.2	---	---
32	8.7	10.7	7.7	10.0	5.5	8.4	---	---
40	11.2	14.2	9.2	13.0	6.4	10.6	6.8	10.5
50	16.5	19.0	14.5	17.2	10.8	15.8	11.6	17.8

GTV = GATE VALVE, GLV = GLOBE VALVE  
 LCV = LIFT CHECK VALVE  
 SCV = SWING CHECK VALVE

- 1) Stellite trim, and other materials available on request
- 2) All Body and Bonnet in Corrosion resistant materials are investment casting and are radiographic quality as per ASTM E 446 Level III
- 3) Ring joint, Large or Small Tongue & Groove Flanges are available on requests
- 4) Butt Weld ends to ASME B16.25 are available on request
- 5) IBR III - C Certificate on request



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**aquavalves**

Design standard :

Gate Valve : API 600, API 6D, BS EN ISO 10434

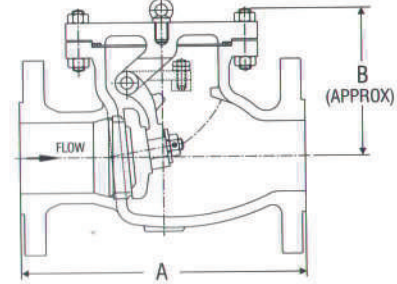
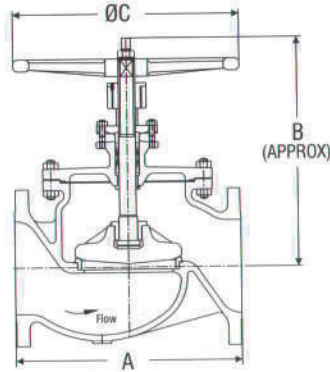
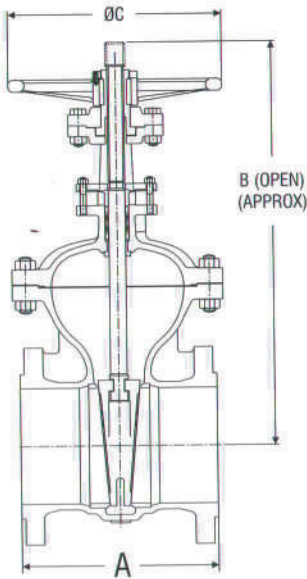
Globe Valve : BS 1873

Check Valve : BS 1868

Testing standard : API 598, BS EN ISO 12266

Pressure rating : Class: 150 - 300

Ends : Flanged, class: 150 - 300



TEST PRESSURES in kg/cm <sup>2</sup> (g)			
CLASS		150	300
HYD	SHELL	31	79
	SEAT/BACK SEAT*	23	58
	SEAT (min)*	6	15
AIR	SEAT*	7	

\* Not Applicable for Check Valves

\* Applicable for Check Valves Only

All dimensions are in mm & weights (Approx) In kgs.

SIZE	Gate Valve								Globe Valve								Swing check Valve					
	A		B		ØC		WEIGHT		A		B		ØC		WEIGHT		A		B		WEIGHT	
	CLASS RATING																					
	300	150	300	150	300	150	300	150	300	150	300	150	300	150	300	150	300	150	300	150	300	150
65	241	416	425	200	250	25	28	216	292	290	351	200	250	30	35	216	292	125	135	17	26	
80	282	478	490	250	250	27	37	241	318	345	362	250	300	36	46	241	318	135	145	20	31	
100	305	555	550	250	300	37	64	292	356	355	413	300	450	52	73	292	356	155	175	35	51	
125	381	690	700	300	450	55	96	356	400	410	471	300	450	77	95	330	400	185	205	43	65	
150	403	790	790	300	450	63	133	406	444	450	580	450	600	92	143	356	445	210	220	51	106	
200	419	950	988	450	450	125	215	495	559	553	780	600	750	163	185	495	533	226	255	103	160	
250	457	1160	1260	450	600	192	368	622	622	720	1250	600	GO	200	450	622	622	265	305	160	254	
300	502	1370	1450	600	600	290	475	698	711	850	1445	750	GO	265	735	699	711	320	360	224	355	
350	762	1580	1600	600	750	390	495	---	---	---	---	---	---	---	---	787	838	375	400	480	780	
400	838	1775	1872	600	900	450	850	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
450	914	1950	2290	750	GO	570	1185	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
500	991	2225	2440	750	GO	725	1545	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
600	1143	2560	2475	1000	GO	1305	1805	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

1) Dimension "A" as per ASME B16.10 2) Flanges as per ASME B16.5 3) GO = Gear operated.

4) Shell thickness as per ASME B16.34 for Gate Valve & Swing Check Valve

Part Name	Materials of Construction
Body / Bonnet / Cover	WCB / LCB / CF8 / CF8M
Seat ring / Wedge / Disc / Hinge	WCB* / LCB / CF8 / CF8M
Stem / Bonnet bush / Packing support ring / Disc washer / Hinge pin Spacer Washer / Thrust plate / Gland / Disc nut & Pin	410 / 304 / 316
Gland flange	Carbon steel
Packing	Grafoil
Gasket	Spiral wound SS 304 with Grafoil filled
Yoke sleeve / Yoke bush	A 536 Gr.65 - 45 -12
Hand Wheel	Malleable iron / Carbon steel
Body stud / nut	A193 Gr.B7 / A194 Gr.2H ( Zn. plated)

1) ■ Optional for corrosion resistant shell material

2) \* 13 % Cr.Overlay over WCB except Hinge

3) Stellite trim and other materials available on request

4) IBR III-C Certificate on request

5) Butt Weld ends to ASME B16.25 are available on request

6) Gear Actuators mandatory for sizes 450, 500 & 600 class 300 for Gate Valve

7) Gear Actuators mandatory for sizes 250, 300 class 300 for Globe Valve

8) Ring joint, Large or Small Tongue & Groove Flanges are available on requests



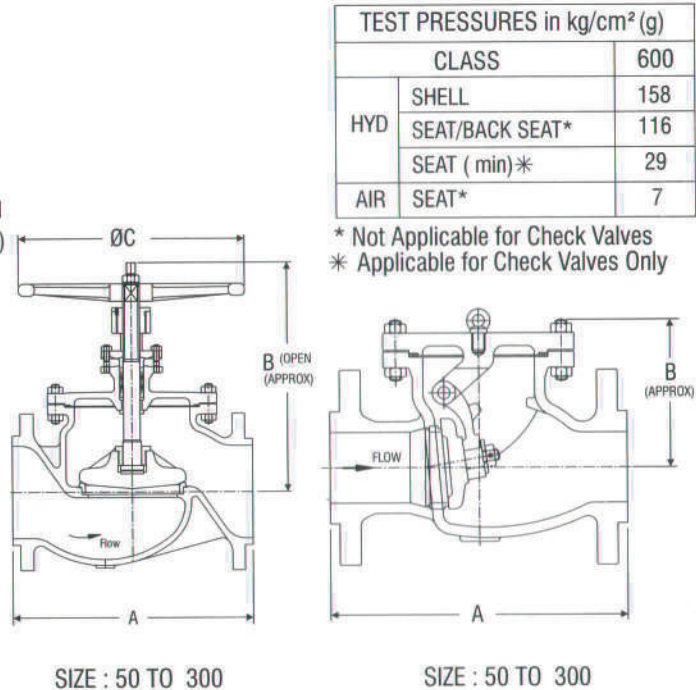
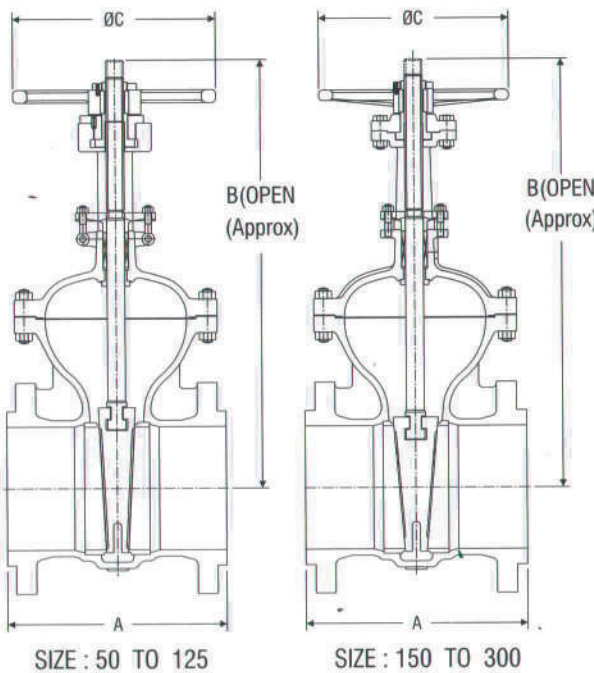
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**aqua valves**

Design standard :

Gate Valve : API 600, API 6D, BS EN ISO 10434  
 Globe Valve : BS 1873  
 Check Valve : BS 1868

Testing standard : API 598, BS EN ISO 12266  
 Pressure rating : Class: 600  
 Ends : Flanged, class: 600



TEST PRESSURES in kg/cm <sup>2</sup> (g)		
CLASS		600
HYD	SHELL	158
	SEAT/BACK SEAT*	116
	SEAT (min)*	29
AIR	SEAT*	7

\* Not Applicable for Check Valves  
 \* Applicable for Check Valves Only

All dimensions are in mm & weights (Approx) in kgs.

SIZE	Gate Valve				Globe Valve				Swing check Valve		
	A	B	Ø C	WEIGHT	A	B	Ø C	WEIGHT	A	B	WEIGHT
50	292	390	250	30	292	335	250	32	292	140	25
65	330	421	250	39	330	350	300	50	330	145	38
80	356	465	300	55	356	410	450	65	356	165	50
100	432	605	450	99	432	485	600	117	432	190	78
125	508	690	450	135	508	595	750	180	508	220	140
150	559	830	600	213	559	1180	GO	280	559	250	161
200	660	1065	600	375	660	1350	GO	400	660	285	280
250	787	1110	750	575	787	1485	GO	600	787	340	425
300	838	1770	GO	850	838	1545	GO	1000	838	395	447

- 1) Dimension "A" as per ASME B16.10 2) Flanges as per ASME B16.5 3) GO = Gear operated.  
 4) Shell thickness as per ASME B16.34 for Gate Valve & Swing Check Valve

Part Name	Materials of Construction
Body / Bonnet / Cover	WCB / LCB / CF8 / CF8M
Seat ring / Wedge / Disc / Hinge	WCB* / LCB / CF8 / CF8M
Stem / Bonnet bush / Packing support ring / Disc washer / Hinge pin Spacer Washer / Thrust plate / Gland / Disc nut & Pin	410 / 304 / 316
Gland flange	Carbon steel
Packing	Grafoil
Gasket	Spiral wound SS 304 with Grafoil filled
Yoke sleeve / Yoke bush	A 536 Gr.65 - 45 -12
Hand Wheel	Malleable iron / Carbon steel
Body stud / nut	A193 Gr.B7 / A194 Gr.2H ( Zn. plated)

- 1) ■ Optional for corrosion resistant shell material 5) Butt Weld ends to ASME B16.25 are available on request  
 2) \* 13 % Cr.Overlay over WCB except Hinge 6) Gear Actuators mandatory for sizes 300 for Gate Valve  
 3) Stellite trim and other materials available on request 7) Gear Actuators mandatory for sizes 150 to 300 Globe Valve  
 4) IBR III-C Certificate on request 8) Ring joint, Large or Small Tongue & Groove Flanges are available on requests



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# FORGED STEEL GATE - GLOBE & CHECK VALVES - REDUCED BORE

## CLASS 800

Design standard :

Gate Valve : API 602, BS 5352

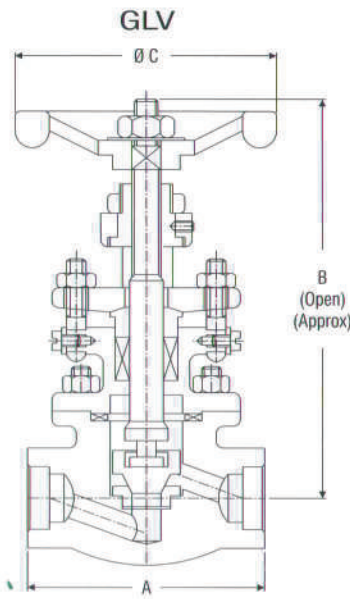
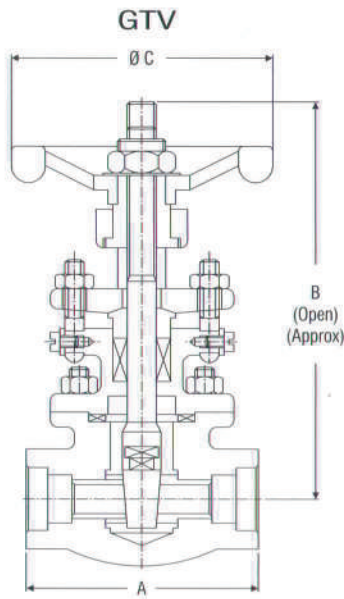
Globe Valve : BS 5352

Check Valve : BS 5352

Testing standard : API 598, BS 6755 PART 1

Pressure rating : Class: 800

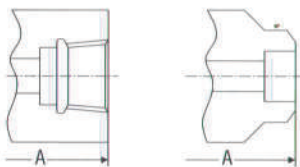
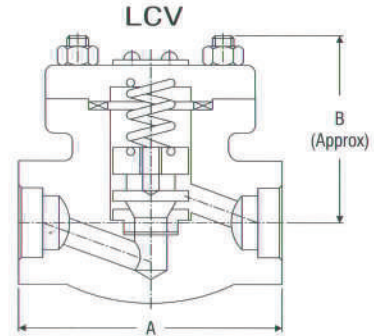
Ends : Screwed, Socket, Butt Weld



TEST PRESSURES in kg/cm <sup>2</sup> (g)		
CLASS		800
HYD	SHELL	211
	SEAT/BACK SEAT*	155
	SEAT ( min)*	39
AIR	SEAT*	7

\* Not Applicable for Check Valves

\* Applicable for Check Valves Only



USCREWED ENDS BUTT WELD ENDS

### SOCKET WELD ENDS

1. SCREWED END : NPT , ASME B1. 20.1

BSP } BS : 21 / IS : 554  
BSPT }

2. SOCKET WELD END : ASME B 16.11 Sch. 40,80,160

3. BUTT WELD END : ASME B 16.25 Sch. 40,80,160

All dimensions are in mm & weights (Approx) in kgs.

SIZE	Gate Valve				Globe Valve				Lift check Valve		
	A	B	Ø C	WEIGHT	A	B	Ø C	WEIGHT	A	B	WEIGHT
8	88	167	110	2.4	88	170	110	2.6	88	57	1.7
10	88	167	110	2.4	88	170	110	2.6	88	57	1.7
15	88	167	110	2.3	88	170	110	2.5	88	57	1.6
20	92	177	110	2.7	92	185	110	2.8	92	65	2.0
25	106	194	110	3.5	106	194	110	3.7	106	72	2.7
32	128	268	170	7.8	128	283	170	8.3	128	109	6.0
40	128	268	170	8.0	128	283	170	8.5	128	109	6.2
50	140	280	170	10.0	140	292	170	10.6	140	112	8.9

1) Dimension "A" as per Manufacturers Standard 2) IBR III - C Certificate on request

Part Name	Materials of Construction
Body / Bonnet / Cover	A105 / F304 / F316
Hand Wheel	Malleable iron
Stem / Seat ring / Gland	410 / 304 / 316
Yoke sleeve / Yoke bush	A 536 Gr.65 - 45 - 12
Wedge / Disc	CA15 / CF8 / CF8M
Gland flange	A105 - Galvanised
Packing	Grafoil
Gasket	Spiral wound SS 304 with Grafoil filled
Body stud / nut	A193 Gr.B7 / A194 Gr.2H ( Zn. plated)
Spring	304 / 316

1) Valves are available with weld - on - flanges of class 150,300 & 600, available on request. Face to Face dimensions for class 150 rating will be as per class 300.

2) Stellite trim and other materials available on request



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