G-17
CATALOG

Vogt®



API600 Cast Steel Valves





1890…

In the late 1890s, Vogt pioneered the early development of ammonia absorption refrigeration systems that made artificial ice.

This business, plus Vogt's emerging boiler business, created an internal need for quality valves that initiated Vogt's early entry into the valve manufacturing.

The early reputation of Vogt's quality valves and rapidly growing petroleum processing industry created an outside demand that would firmly establish Vogt in the mass production of high-quality forged steel valves.

For more than 100 years, Vogt's leadership has been evident in the production of forged steel gate, globe, angle and check valves in most popular materials, trims and bonnet configurations.

…2017

The OMB Valves group acquired in July 2017. In January 2018 the manufacturing facilities were relocated to Stafford TX in a brand new plant of 100,000 sq.ft. and a second plant for specialty valves opened in Milan, Italy.

Today Vogt Valves supports a worldwide network of distributors and customers with access to the world's largest capability for manufacturing of forged steel valves.

OMB Valves group

OMB Valves, headquartered in Cenate Sotto, Bergamo, Italy, is a diversified manufacturer of valves for the energy industries.

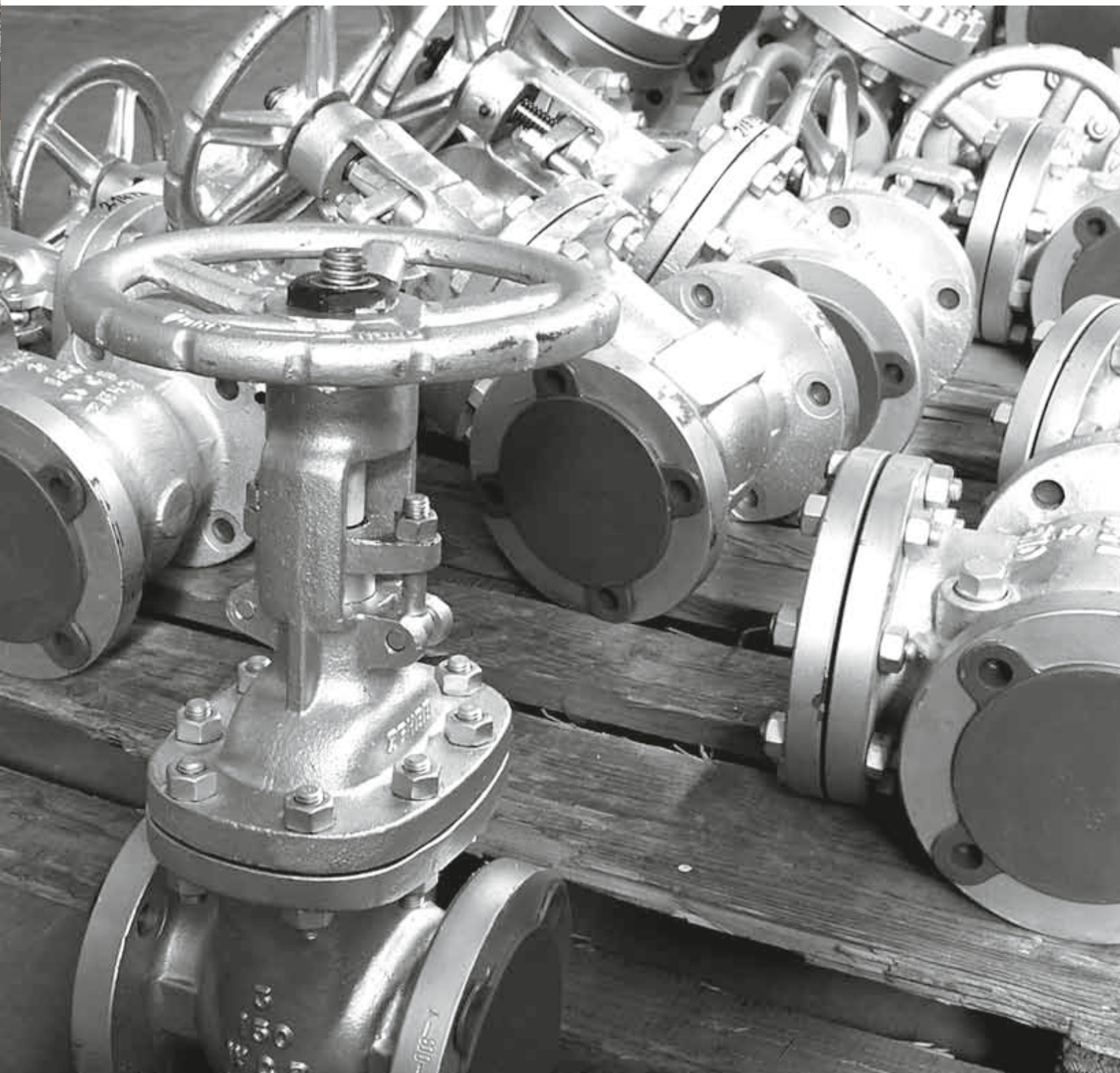
Founded by Mr. Roberto Brevi in 1973, OMB is a family owned and operated group which has become a globally recognised valve manufacturer with operations in Europe, Asia, USA and Middle East supported by a worldwide distribution network.

Vogt Valves introduces a redesigned line of API 600 Cast Steel Gate, Globe and Check valves to complete our growing range of products.

Vogt Valves offers an API600 Monogram licensed line of valves from #150 to #2500 class, in all main materials for the Oil & Gas, Power and general industries.

All Vogt Valves come with API622 qualified packings and meet the current API624 Fugitive Emissions standard. Vogt offer as well a full range of Bellows Seal valves to API600.

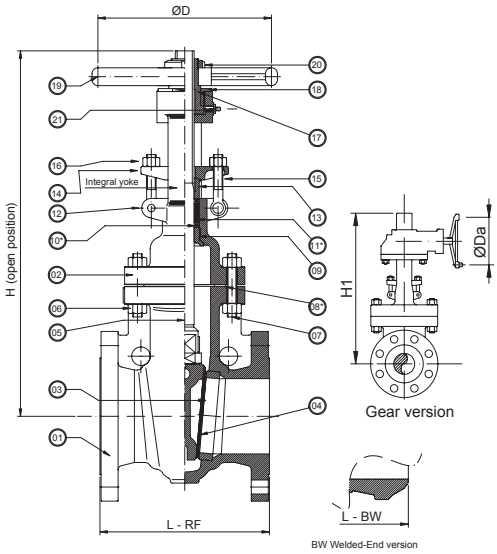
We source our castings worldwide from high qualified vendors meeting the most stringent inspection protocols.



Gate

CLASS 150

- Outside Screw & Yoke
- Bolted Bonnet with integral yoke up to Ø 8”
- Bolted Bonnet with bolted yoke from Ø 10”
- Welded Seat Ring
- Solid wedge up to Ø 2-1/2”
- Flexible Wedge from Ø 3” and greater
- Available with Grear Operator
- Special features according to Customer’s requirement



Design Standards	API 600 - ANSI B 16.34		
Face to Face Dimension	ANSI B16.10		
Flanges	Up to 24” ANSI B16.5 - From 26” MSS SP44 ANSI B16.47 API 605		
Butt-weld ends	ANSI B16.25		
Testing	API 598		
TEST PRESSURE TO API 598 Psi/bar	Shell (water)	Seat (water)	Seat (air)
	450/30	314/22	80/5.5

CLASS 150 Lb

TRIM NUMBER AS PER API 600									
No	**Part Name**	**1**	**2**	**8**	**5**	**9**	**10**	**12**	**16**
03	**Seat Ring**	**410**	**304**	**STL Gr6**	**STL Gr6**	**MONEL**	**316**	**STL Gr6**	**STL Gr6**
04	**Wedge**			**410**	**STL Gr6**			**316**	**STL Gr6**
05	**Stem**			**410**	**410**				**316**
09	**Backseat**								
	Lantern Ring								
13	**Gland**								

BILL OF MATERIALS STANDARD ACCORDING TO ASTM									
COMPONENT		**CARBON STEEL**		**ALLOY STEEL**		**STAINLESS STEEL**			
No	**Part Name**	**WCB**	**LCB**	**WC6**	**C5**	**CF8**	**CF8M**	**CF3**	**CF3M**
01	**Body**	A216 WCB	A352LCB	A217WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
02	**Bonnet**	A216 WCB	A352LCB	A217WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
06	**Bonnet Bolts**	A193-B7	A320-L7	A193-B16		A193-B8			
07	**Bonnet Nuts**	A194-2H	A194-4	A194-4		A194-8			
08	**Body/Bonnet Gasket**	304 SS + Graphite inhibited							
10-11	**Stem Packing**	Braided and Flexible Graphite							
12	**Eyebolts Pin**	A276-410							
14	**Gland Flange**	A216 WCB	A352LCB	A217WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
15	**Gland Eyebolts**	A193-B7	A320-L7	A193-B16		A193-B8			
16	**Gland Nuts**	A194-2H	A194-4	A194-4		A194-8			
17	**Stem Nut**	ASTM A439-D2							
18	**Retaining Nut**	Carbon Steel		410					
19	**Hand Wheel**	Ductile Iron or Steel							
20	**Hand Wheel Nut**	Carbon Steel				410			
21	**Grease Nipple**	Stainless Steel							

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CLASS 150 Lb

Product Range

SIZE		DIMENSION IN mm						WEIGHT	
INCHES	MM	L(RF)	L(BW)	H Open	H1	Ø D	Ø Da	Kg (handwheel)	Kg (gear operator)
2”	50	178	216	390	-	200	-	19	-
2-12”	65	190	241	520	-	250	-	24	-
3”	80	203	282	530	-	250	-	33	-
4”	100	229	305	605	-	350	-	49	-
6”	150	267	403	780	-	350	305	87	-
8”	200	292	419	960	-	350	305	132	-
10”	250	330	457	1210	-	450	305	203	-
12”	300	356	502	1415	1465	500	305	265	291
14”	350	381	572	1532	1600	600	305	490	516
16”	400	406	610	1765	1820	600	460	535	561
18”	450	432	660	1965	2015	600	460	640	689
20”	500	457	711	2130	2180	600	460	780	830
22”	550	508	762	2385	2450	700	460	990	1040
24”	600	508	813	2565	2630	700	460	1190	1240

ANSI CLASS 150 Lb

Pressure - temperature ratings to ANSI B16.34

TEMP.	WORKING PRESSURE (BAR .G)									
C°	CARBON STEEL		ALLOY STEEL				STAINLESS STEEL			
	WCB (a)	LCB (b)	WC6 (c)	WC9 (c)	C5 (g)	C12 (g)	CF8 (d)	CF8M (d)	CF3 (e)	CF3M (f)
-29 to 38	19.6	18.4	19.8	19.8	20	20	19	19	19	19
50	19.2	18.2	19.5	19.5	19.5	19.5	18.3	18.4	18.3	18.4
100	17.7	17.4	17.7	17.7	17.7	17.7	15.7	16.2	15.7	16.2
150	15.8	15.8	15.8	15.8	15.8	15.8	14.2	14.8	14.2	14.8
200	13.8	13.8	13.8	13.8	13.8	13.8	13.2	13.7	13.2	13.7
250	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
300	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
350	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
400	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
425	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
450	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
500	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
538	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
550	-	-	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
600	-	-	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
650	-	-	-	-	-	-	1.4	1.4	1.4	1.4
700	-	-	-	-	-	-	1.4	1.4	1.4	1.4
750	-	-	-	-	-	-	1.4	1.4	1.4	1.4
800	-	-	-	-	-	-	-	-	-	-

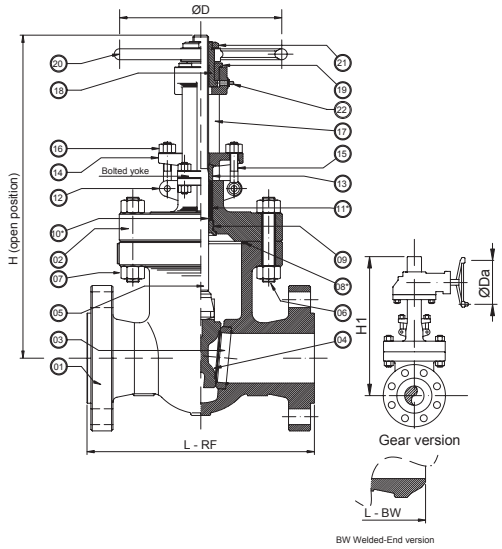
a) Permissible, but not recommended for prolonged usage above 425 °C
(b) Not be used over 345 °C.
(c) Permissible, but not recommended for prolonged usage above 595 °C Flanged End valve ratings terminate at 538°C.
(d) At temperature above 538 °C, use only when carbon content is 0.04 % or higher. Flanged End valve ratings terminate at 538°C
(e) Not be used over 425 °C. Flanged End valve ratings terminate at 538°C.
(f) Not be used over 455 °C. Flanged End valve ratings terminate at 538°C.
(g) Flanged End valve ratings terminate at 538°C.

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Gate

CLASS 300

- Outside Screw & Yoke
- Bolted Bonnet with integral yoke up to Ø 8”
- Bolted Bonnet with bolted yoke from Ø 10”
- Welded Seat Ring
- Solid wedge up to Ø 2-1/2”
- Flexible Wedge from Ø 3” and greater
- Available with Grear Operetor
- Special features according to Customer’s requirement



Design Standards	API 600 - ANSI B 16.34		
Face to Face Dimension	ANSI B16.10		
Flanges	Up to 24” ANSI B16.5 - From 26” MSS SP44 ANSI B16.47 API 605		
Butt-weld ends	ANSI B16.25		
Testing	API 598		
TEST PRESSURE TO API 598 Psi/bar	Shell (water)	Seat (water)	Seat (air)
	1125/78	825/57	80/5.5

CLASS 300 Lb

TRIM NUMBER AS PER API 600									
No	**Part Name**	**1**	**2**	**8**	**5**	**9**	**10**	**12**	**16**
03	**Seat Ring**	**410**	**304**	**STL Gr6**	**STL Gr6**	**MONEL**	**316**	**STL Gr6**	**STL Gr6**
04	**Wedge**			**410**	**STL Gr6**			**316**	**STL Gr6**
05	**Stem**			**410**	**410**				**316**
09	**Backseat**								
	Lantern Ring								
13	**Gland**								

BILL OF MATERIALS STANDARD ACCORDING TO ASTM									
BILL OF MATERIALS STANDARD ACCORDING TO ASTM									
COMPONENT		**CARBON STEEL**		**ALLOY STEEL**		**STAINLESS STEEL**			
No	**Part Name**	**WCB**	**LCB**	**WC6**	**C5**	**CF8**	**CF8M**	**CF3**	**CF3M**
01	**Body**	A216 WCB	A352LCB	A217WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
02	**Bonnet**	A216 WCB	A352LCB	A217WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
06	**Bonnet Bolts**	A193-B7	A320-L7	A193-B16		A193-B8			
07	**Bonnet Nuts**	A194-2H	A194-4	A194-4		A194-8			
08	**Body/Bonnet Gasket**	304 SS + Graphite inhibited							
10-11	**Stem Packing**	Braided and Flexible Graphite							
12	**Eyebolts Pin**	A276-410							
14	**Gland Flange**	A216 WCB	A352LCB	A217WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
15	**Gland Eyebolts**	A193-B7	A320-L7	A193-B16		A193-B8			
16	**Gland Nuts**	A194-2H	A194-4	A194-4		A194-8			
17	**Stem Nut**	ASTM A439-D2							
18	**Retaining Nut**	Carbon Steel		410					
19	**Hand Wheel**	Ductile Iron or Steel							
20	**Hand Wheel Nut**	Carbon Steel				410			
21	**Grease Nipple**	Stainless Steel							

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CLASS 300 Lb

Product Range

SIZE		DIMENSION IN mm						WEIGHT	
INCHES	MM	L(RF)	L(BW)	H Open	H1	Ø D	Ø Da	Kg (handwheel)	Kg (gear operator)
2”	50	216	216	410	-	200	-	24	-
2-12”	65	241	241	470	-	200	-	41	-
3”	80	282	282	536	-	250	-	54	-
4”	100	305	305	630	-	300	-	77	-
6”	150	403	403	810	860	350	240	143	161
8”	200	419	419	1010	1060	450	240	220	238
10”	250	457	457	1245	1300	500	310	370	396
12”	300	502	502	1460	1510	600	310	505	531
14”	350	762	762	1630	1670	600	310	765	791
16”	400	838	838	1800	1860	600	460	1010	1059
18”	450	914	914	2000	2050	600	460	1300	1349
20”	500	991	991	2200	2260	720	600	1700	1749
22”	550	1118	1118	2460	2510	900	600	2100	2198
24”	600	1143	1143	2640	2690	900	600	2420	2518

For Face-to-Face dimension L (RTJ), add +16 mm from size 2” up to 18” add +19 mm for size 20”, add +22 mm for sizes 22” and 24”

ANSI CLASS 300

Pressure - temperature ratings to ANSI B16.34

TEMP.	WORKING PRESSURE (BAR .G)									
C°	CARBON STEEL		ALLOY STEEL				STAINLESS STEEL			
	WCB (a)	LCB (b)	WC6 (c)	WC9 (c)	C5 (g)	C12 (g)	CF8 (d)	CF8M (d)	CF3 (e)	CF3M (f)
-29 to 38	51.1	48	51.7	51.7	51.7	51.7	49.6	49.6	49.6	49.6
50	50.1	47.5	51.7	51.7	51.7	51.7	47.8	48.1	47.8	48.1
100	46.6	45.3	51.5	51.5	51.5	51.5	40.9	42.2	40.9	42.2
150	45.1	43.9	49.7	50.3	50.3	50.3	37	38.5	37	38.5
200	43.8	42.5	48	48.6	48.6	48.6	34.5	35.7	34.5	35.7
250	41.9	40.8	46.3	46.3	46.3	46.3	32.5	33.4	32.5	33.4
300	39.8	38.7	42.9	42.9	42.9	42.9	30.9	31.6	30.9	31.6
350	37.6	36.4	40.3	40.3	40.3	40.3	29.6	30.3	29.6	30.3
400	34.7	32.6	36.5	36.5	36.5	36.5	28.4	29.4	28.4	29.4
425	28.8	27.3	35.2	35.2	35.2	35.2	28	29.1	28	29.1
450	23	21.6	33.7	33.7	33.7	33.7	27.4	28.8	27.4	28.8
500	11.8	11.1	25.7	28.2	28.2	28.2	26.5	28.2	26.5	28.2
538	5.9	5.9	14.9	18.4	13.7	17.5	24.4	25.2	24.4	25.2
550	-	-	12.7	15.6	12	15	23.6	25	23.6	25
600	-	-	6.1	6.9	6.2	7.2	16.9	19.9	16.9	19.9
650	-	-	-	-	-	-	11.3	12.7	11.3	12.7
700	-	-	-	-	-	-	8	8.4	8	8.4
750	-	-	-	-	-	-	5.8	5.9	5.8	5.9
800	-	-	-	-	-	-	-	-	-	-

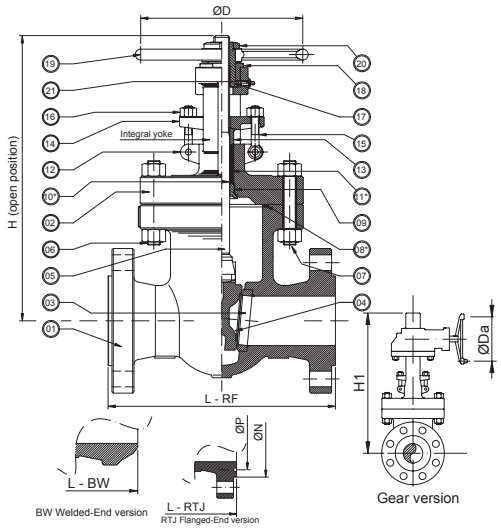
a) Permissible, but not recommended for prolonged usage above 425 °C
(b) Not be used over 345 °C.
(c) Permissible, but not recommended for prolonged usage above 595 °C Flanged End valve ratings terminate at 538°C.
(d) At temperature above 538 °C, use only when carbon content is 0.04 % or higher. Flanged End valve ratings terminate at 538°C
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Gate

CLASS 600

- Outside Screw & Yoke
- Bolted Bonnet with integral yoke up to Ø 6”
- Bolted Bonnet with bolted yoke from Ø 8”
- Welded Seat Ring
- Solid wedge up to Ø 2-1/2”
- Flexible Wedge from Ø 3” and greater
- Available with Grear Operetor
- Special features according to Customer’s requirement



Design Standards	API 600 - ANSI B 16.34		
Face to Face Dimension	ANSI B16.10		
Flanges	Up to 24” ANSI B16.5 - From 26” MSS SP44 ANSI B16.47 API 605		
Butt-weld ends	ANSI B16.25		
Testing	API 598		
TEST PRESSURE TO API 598 Psi/bar	Shell (water)	Seat (water)	Seat (air)
	2250/155	1650/114	80/5.5

CLASS 600 Lb

TRIM NUMBER AS PER API 600									
No	**Part Name**	**1**	**2**	**8**	**5**	**9**	**10**	**12**	**16**
03	**Seat Ring**	**410**	**304**	**STL Gr6**	**STL Gr6**	**MONEL**	**316**	**STL Gr6**	**STL Gr6**
04	**Wedge**			**410**	**STL Gr6**			**316**	**STL Gr6**
05	**Stem**			**410**	**410**				**316**
09	**Backseat**								
	Lantern Ring								
13	**Gland**								

BILL OF MATERIALS STANDARD ACCORDING TO ASTM									
COMPONENT		**CARBON STEEL**		**ALLOY STEEL**		**STAINLESS STEEL**			
No	**Part Name**	**WCB**	**LCB**	**WC6**	**C5**	**CF8**	**CF8M**	**CF3**	**CF3M**
01	**Body**	A216 WCB	A352LCB	A217WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
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07	**Bonnet Nuts**	A194-2H	A194-4	A194-4		A194-8			
08	**Body/Bonnet Gasket**	304 SS + Graphite inhibited							
10-11	**Stem Packing**	Braided and Flexible Graphite							
12	**Eyebolts Pin**	A276-410							
14	**Gland Flange**	A216 WCB	A352LCB	A217WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
15	**Gland Eyebolts**	A193-B7	A320-L7	A193-B16		A193-B8			
16	**Gland Nuts**	A194-2H	A194-4	A194-4		A194-8			
17	**Stem Nut**	ASTM A439-D2							
18	**Retaining Nut**	Carbon Steel		410					
19	**Hand Wheel**	Ductile Iron or Steel							
20	**Hand Wheel Nut**	Carbon Steel				410			
21	**Grease Nipple**	Stainless Steel							

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CLASS 600 Lb

Product Range

SIZE		DIMENSION IN mm						WEIGHT	
INCHES	MM	L(RF)	L(BW)	H Open	H1	Ø D	Ø Da	Kg (handwheel)	Kg (gear operator)
2”	50	292	292	425	-	200	-	33	-
2-12”	65	330	330	500	-	200	-	51	-
3”	80	356	356	570	-	250	-	70	-
4”	100	432	432	680	-	300	-	127	-
6”	150	559	559	895	940	500	500	280	306
8”	200	660	660	1085	1150	600	600	450	476
10”	250	787	787	1280	1310	600	600	760	809
12”	300	838	838	1500	1550	600	600	980	1029
14”	350	889	889	1660	1670	720	600	1240	1289
16”	400	991	991	1885	1940	720	800	1540	1638
18”	450	1092	1092	2040	2090	800	800	2250	2348
20”	500	1194	1194	2230	2280	1000	800	2700	2990
22”	550	1295	1295	2415	2470	1000	800	3200	3490
24”	600	1397	1397	2640	2690	1000	800	3800	4090

For Face-to-Face dimension L (RTJ), add +3 mm from size 2” up to 18” add +6 mm for size 20”, add +10 mm for sizes 22” and 24”

ANSI CLASS 600

Pressure - temperature ratings to ANSI B16.34

TEMP.	WORKING PRESSURE (BAR .G)									
C°	CARBON STEEL		ALLOY STEEL				STAINLESS STEEL			
	WCB (a)	LCB (b)	WC6 (c)	WC9 (c)	C5 (g)	C12 (g)	CF8 (d)	CF8M (d)	CF3 (e)	CF3M (f)
-29 to 38	102.1	96	103.4	103.4	103.4	103.4	99.3	99.3	99.3	99.3
50	100.2	94.9	103.4	103.4	103.4	103.4	95.6	96.2	95.6	96.2
100	93.2	90.7	103	103	103	103	81.7	84.4	81.7	84.4
150	90.2	87.9	99.5	100.3	100.3	100.3	74	77	74	77
200	87.6	85.1	95.9	97.2	97.2	97.2	69	71.3	69	71.3
250	83.9	81.6	92.7	92.7	92.7	92.7	65	66.8	65	66.8
300	79.6	77.4	85.7	85.7	85.7	85.7	61.8	63.2	61.8	63.2
350	75.1	72.8	80.4	80.4	80.4	80.4	59.3	60.7	59.3	60.7
400	69.4	65.2	73.3	73.3	73.3	73.3	56.9	58.9	56.9	58.9
425	57.5	54.6	70	70	70	70	56	58.3	56	58.3
450	46	43.2	67.7	67.7	67.7	67.7	54.8	57.7	54.8	57.7
500	23.5	22.1	51.5	56.5	42.8	56.5	53	56.5	53	56.5
538	11.8	11.8	29.8	36.9	27.4	35	48.9	50	48.9	50
550	-	-	25.4	31.3	24.1	30	47.1	49.8	47.1	49.8
600	-	-	12.2	13.8	12.5	14.4	33.8	39.8	33.8	39.8
650	-	-	-	-	-	-	22.5	25.3	22.5	25.3
700	-	-	-	-	-	-	16.1	16.8	16.1	16.8
750	-	-	-	-	-	-	11.6	11.7	11.6	11.7
800	-	-	-	-	-	-	-	-	-	-

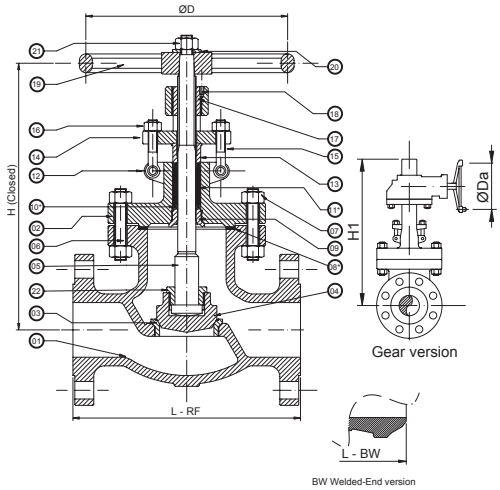
a) Permissible, but not recommended for prolonged usage above 425 °C
(b) Not be used over 345 °C.
(c) Permissible, but not recommended for prolonged usage above 595 °C Flanged End valve ratings terminate at 538°C.
(d) At temperature above 538 °C, use only when carbon content is 0.04 % or higher. Flanged End valve ratings terminate at 538°C
(e) Not be used over 425 °C. Flanged End valve ratings terminate at 538°C.
(f) Not be used over 455 °C. Flanged End valve ratings terminate at 538°C.
(g) Flanged End valve ratings terminate at 538°C.

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Globe

CLASS 150

- Outside Screw & Yoke – Rising Stem
- Rising Hand Wheel
- Bolted Bonnet Joint
- Screwed Seat Ring up to Ø 6”
- Welded Seat Ring from Ø 8”
- Swivel Plug Disc Standard Type
- Available with Gear Operator
- Special features according to Customer’s requirement



Design Standards	BS 1873 - ANSI B 16.34		
Face to Face Dimension	ANSI B16.10		
Flanges	Up to 24” ANSI B16.5 - From 26” MSS SP44 ANSI B16.47 API 605		
Butt-weld ends	ANSI B16.25		
Testing	API 598		
TEST PRESSURE TO API 598 Psi/bar	Shell (water)	Seat (water)	Seat (air)
	450/30	314/22	80/5.5

CLASS 150 Lb

TRIM NUMBER AS PER API 600									
No	**Part Name**	**1**	**2**	**8**	**5**	**9**	**10**	**12**	**16**
03	**Seat Ring**	**410**	**304**	**STL Gr6**	**STL Gr6**	**MONEL**	**316**	**STL Gr6**	**STL Gr6**
04	**Disc**			**410**	**STL Gr6**			**316**	**STL Gr6**
05	**Stem**			**410**	**410**				**316**
09	**Backseat**								
	Lantern Ring								
13	**Gland**								
22	**Disc Nut**								

BILL OF MATERIALS STANDARD ACCORDING TO ASTM									
COMPONENT		**CARBON STEEL**		**ALLOY STEEL**		**STAINLESS STEEL**			
No	**Part Name**	**WCB**	**LCB**	**WC6**	**C5**	**CF8**	**CF8M**	**CF3**	**CF3M**
01	**Body**	A216 WCB	A352LCB	A217WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
02	**Bonnet**	A216 WCB	A352LCB	A217WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
06	**Bonnet Bolts**	A193-B7	A320-L7	A193-B16		A193-B8			
07	**Bonnet Nuts**	A194-2H	A194-4	A194-4		A194-8			
08	**Body/Bonnet Gasket**	304 SS + Graphite inhibited							
10-11	**Stem Packing**	Braided and Flexible Graphite							
12	**Eyebolts Pin**	A276-410							
14	**Gland Flange**	A216 WCB	A352LCB	A217WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
15	**Gland Eyebolts**	A193-B7	A320-L7	A193-B16		A193-B8			
16	**Gland Nuts**	A194-2H	A194-4	A194-4		A194-8			
17	**Stem Nut**	ASTM A439-D2							
18	**Stem Nut Screw**	Carbon Steel		410					
19	**Hand Wheel**	Ductile Iron or Steel							
20	**Washer**	Carbon Steel				410			
21	**Hand Wheel Nut**	Stainless Steel							

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CLASS 150 Lb

Product Range

SIZE		DIMENSION IN mm						WEIGHT	
INCHES	MM	L(RF)	L(BW)	H Open	H1	Ø D	Ø Da	Kg (handwheel)	Kg (gear operator)
2”	50	203	203	380	-	200	-	22	-
2-12”	65	216	216	415	-	245	-	30	-
3”	80	241	241	390	-	285	-	40	-
4”	100	292	292	470	-	285	-	60	-
6”	150	406	406	540	-	400	-	105	-
8”	200	495	495	605	-	600	-	170	-
10”	250	622	622	860	900	600	305	315	341
12”	300	698	698	935	975	600	460	475	525
14”	350	787	787	1070	1090	700	460	580	630
16”	400	914	914	1150	1160	1000	610	790	890
18”	450	978	978	1205	1275	1000	610	1020	1120
20”	500	978	978	-	1420	-	610	1250	1540
22”	550	1067	1067	-	1570	-	610	-	-
24”	600	1295	1295	-	1720	-	610	1960	2260

ANSI CLASS 150

Pressure - temperature ratings to ANSI B16.34

TEMP.	WORKING PRESSURE (BAR .G)									
C°	CARBON STEEL		ALLOY STEEL				STAINLESS STEEL			
	WCB (a)	LCB (b)	WC6 (c)	WC9 (c)	C5 (g)	C12 (g)	CF8 (d)	CF8M (d)	CF3 (e)	CF3M (f)
-29 to 38	19.6	18.4	19.8	19.8	20	20	19	19	19	19
50	19.2	18.2	19.5	19.5	19.5	19.5	18.3	18.4	18.3	18.4
100	17.7	17.4	17.7	17.7	17.7	17.7	15.7	16.2	15.7	16.2
150	15.8	15.8	15.8	15.8	15.8	15.8	14.2	14.8	14.2	14.8
200	13.8	13.8	13.8	13.8	13.8	13.8	13.2	13.7	13.2	13.7
250	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
300	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
350	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
400	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
425	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
450	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
500	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
538	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
550	-	-	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
600	-	-	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
650	-	-	-	-	-	-	1.4	1.4	1.4	1.4
700	-	-	-	-	-	-	1.4	1.4	1.4	1.4
750	-	-	-	-	-	-	1.4	1.4	1.4	1.4
800	-	-	-	-	-	-	-	-	-	-

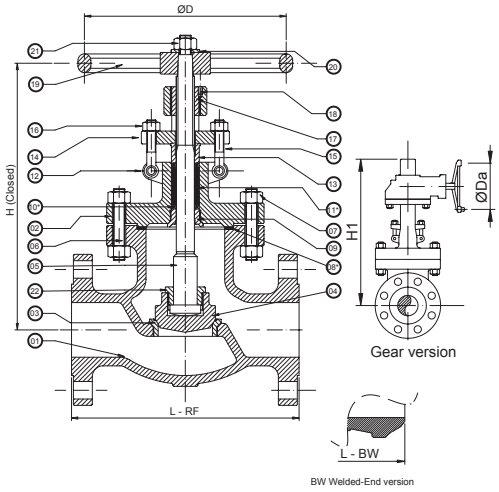
a) Permissible, but not recommended for prolonged usage above 425 °C
(b) Not be used over 345 °C.
(c) Permissible, but not recommended for prolonged usage above 595 °C Flanged End valve ratings terminate at 538°C.
(d) At temperature above 538 °C, use only when carbon content is 0.04 % or higher. Flanged End valve ratings terminate at 538°C
(e) Not be used over 425 °C. Flanged End valve ratings terminate at 538°C.
(f) Not be used over 455 °C. Flanged End valve ratings terminate at 538°C.
(g) Flanged End valve ratings terminate at 538°C.

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Globe

CLASS 300

- Outside Screw & Yoke - Rising Stem
- Rising Hand Wheel
- Bolted Bonnet Joint
- Screwed Seat Ring up to Ø 6”
- Welded Seat Ring from Ø 8”
- Swivel Plug Disc Standard Type
- Available with Gear Operator
- Special features according to Customer’s requirement



Design Standards	BS 1873 - ANSI B 16.34		
Face to Face Dimension	ANSI B16.10		
Flanges	Up to 24” ANSI B16.5 - From 26” MSS SP44 ANSI B16.47 API 605		
Butt-weld ends	ANSI B16.25		
Testing	API 598		
TEST PRESSURE TO API 598 Psi/bar	Shell (water)	Seat (water)	Seat (air)
	1125/78	825/57	80/5.5

CLASS 300 Lb

TRIM NUMBER AS PER API 600									
No	**Part Name**	**1**	**2**	**8**	**5**	**9**	**10**	**12**	**16**
03	**Seat Ring**	**410**	**304**	**STL Gr6**	**STL Gr6**	**MONEL**	**316**	**STL Gr6**	**STL Gr6**
04	**Disc**			**410**	**STL Gr6**			**316**	**STL Gr6**
05	**Stem**			**410**	**410**				**316**
09	**Backseat**								
	Lantern Ring								
13	**Gland**								
22	**Disc Nut**								

BILL OF MATERIALS STANDARD ACCORDING TO ASTM									
COMPONENT		**CARBON STEEL**		**ALLOY STEEL**		**STAINLESS STEEL**			
No	**Part Name**	**WCB**	**LCB**	**WC6**	**C5**	**CF8**	**CF8M**	**CF3**	**CF3M**
01	**Body**	A216 WCB	A352LCB	A217WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
02	**Bonnet**	A216 WCB	A352LCB	A217WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
06	**Bonnet Bolts**	A193-B7	A320-L7	A193-B16		A193-B8			
07	**Bonnet Nuts**	A194-2H	A194-4	A194-4		A194-8			
08	**Body/Bonnet Gasket**	304 SS + Graphite inhibited							
10-11	**Stem Packing**	Braided and Flexible Graphite							
12	**Eyebolts Pin**	A276-410							
14	**Gland Flange**	A216 WCB	A352LCB	A217WC6	A217 WC5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
15	**Gland Eyebolts**	A193-B7	A320-L7	A193-B16		A193-B8			
16	**Gland Nuts**	A194-2H	A194-4	A194-4		A194-8			
17	**Stem Nut**	ASTM A439-D2							
18	**Stem Nut Screw**	Carbon Steel		410					
19	**Hand Wheel**	Ductile Iron or Steel							
20	**Washer**	Carbon Steel				410			
21	**Hand Wheel Nut**	Stainless Steel							

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CLASS 300 Lb

Product Range

SIZE		DIMENSION IN mm						WEIGHT	
INCHES	MM	L(RF)	L(BW)	H Open	H1	Ø D	Ø Da	Kg (handwheel)	Kg (gear operator)
2”	50	267	267	385	-	200	-	28	-
2-12”	65	292	292	460	-	245	-	40	-
3”	80	318	318	430	-	285	-	54	-
4”	100	356	356	495	-	285	-	75	-
6”	150	444	444	590	635	450	305	155	181
8”	200	559	559	800	845	600	460	310	359
10”	250	622	622	915	960	700	610	485	583
12”	300	711	711	1040	975	700	610	690	788
14”	350	-	-	-	-	-	-	-	-
16”	400	-	-	-	-	-	-	-	-
18”	450	-	-	-	-	-	-	-	-
20”	500	-	-	-	-	-	-	-	-
22”	550	-	-	-	-	-	-	-	-
24”	600	-	-	-	-	-	-	-	-

For Face-to-Face dimension L (RTJ), add +16 mm from size 2” up to 12”

ANSI CLASS 300

Pressure - temperature ratings to ANSI B16.34

TEMP.	WORKING PRESSURE (BAR .G)									
C°	CARBON STEEL		ALLOY STEEL				STAINLESS STEEL			
	WCB (a)	LCB (b)	WC6 (c)	WC9 (c)	C5 (g)	C12 (g)	CF8 (d)	CF8M (d)	CF3 (e)	CF3M (f)
-29 to 38	51.1	48	51.7	51.7	51.7	51.7	49.6	49.6	49.6	49.6
50	50.1	47.5	51.7	51.7	51.7	51.7	47.8	48.1	47.8	48.1
100	46.6	45.3	51.5	51.5	51.5	51.5	40.9	42.2	40.9	42.2
150	45.1	43.9	49.7	50.3	50.3	50.3	37	38.5	37	38.5
200	43.8	42.5	48	48.6	48.6	48.6	34.5	35.7	34.5	35.7
250	41.9	40.8	46.3	46.3	46.3	46.3	32.5	33.4	32.5	33.4
300	39.8	38.7	42.9	42.9	42.9	42.9	30.9	31.6	30.9	31.6
350	37.6	36.4	40.3	40.3	40.3	40.3	29.6	30.3	29.6	30.3
400	34.7	32.6	36.5	36.5	36.5	36.5	28.4	29.4	28.4	29.4
425	28.8	27.3	35.2	35.2	35.2	35.2	28	29.1	28	29.1
450	23	21.6	33.7	33.7	33.7	33.7	27.4	28.8	27.4	28.8
500	11.8	11.1	25.7	28.2	28.2	28.2	26.5	28.2	26.5	28.2
538	5.9	5.9	14.9	18.4	13.7	17.5	24.4	25.2	24.4	25.2
550	-	-	12.7	15.6	12	15	23.6	25	23.6	25
600	-	-	6.1	6.9	6.2	7.2	16.9	19.9	16.9	19.9
650	-	-	-	-	-	-	11.3	12.7	11.3	12.7
700	-	-	-	-	-	-	8	8.4	8	8.4
750	-	-	-	-	-	-	5.8	5.9	5.8	5.9
800	-	-	-	-	-	-	-	-	-	-

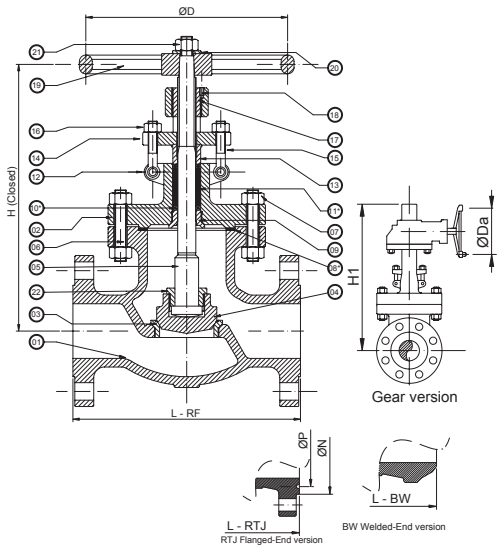
a) Permissible, but not recommended for prolonged usage above 425 °C
(b) Not be used over 345 °C.
(c) Permissible, but not recommended for prolonged usage above 595 °C Flanged End valve ratings terminate at 538°C.
(d) At temperature above 538 °C, use only when carbon content is 0.04 % or higher. Flanged End valve ratings terminate at 538°C
(e) Not be used over 425 °C. Flanged End valve ratings terminate at 538°C.
(f) Not be used over 455 °C. Flanged End valve ratings terminate at 538°C.
(g) Flanged End valve ratings terminate at 538°C.

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Globe

CLASS 600

- Outside Screw & Yoke – Rising Stem
- Rising Hand Wheel
- Bolted Bonnet Joint
- Screwed Seat Ring up to Ø 6”
- Welded Seat Ring from Ø 8”
- Swivel Plug Disc Standard Type
- Available with Gear Operator
- Special features according to Customer’s requirement



Design Standards	BS 1873 - ANSI B 16.34		
Face to Face Dimension	ANSI B16.10		
Flanges	Up to 24” ANSI B16.5 - From 26” MSS SP44 ANSI B16.47 API 605		
Butt-weld ends	ANSI B16.25		
Testing	API 598		
TEST PRESSURE TO API 598 Psi/bar	Shell (water)	Seat (water)	Seat (air)
	2250/155	1650/114	80/5.5

CLASS 600 Lb

TRIM NUMBER AS PER API 600									
No	**Part Name**	**1**	**2**	**8**	**5**	**9**	**10**	**12**	**16**
03	**Seat Ring**	**410**	**304**	**STL Gr6**	**STL Gr6**	**MONEL**	**316**	**STL Gr6**	**STL Gr6**
04	**Disc**			**410**	**STL Gr6**			**316**	**STL Gr6**
05	**Stem**			**410**	**410**				**316**
09	**Backseat**								
	Lantern Ring								
13	**Gland**								
22	**Disc Nut**								

BILL OF MATERIALS STANDARD ACCORDING TO ASTM									
COMPONENT		**CARBON STEEL**		**ALLOY STEEL**		**STAINLESS STEEL**			
No	**Part Name**	**WCB**	**LCB**	**WC6**	**C5**	**CF8**	**CF8M**	**CF3**	**CF3M**
01	**Body**	A216 WCB	A352LCB	A217WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
02	**Bonnet**	A216 WCB	A352LCB	A217WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
06	**Bonnet Bolts**	A193-B7	A320-L7	A193-B16		A193-B8			
07	**Bonnet Nuts**	A194-2H	A194-4	A194-4		A194-8			
08	**Body/Bonnet Gasket**	304 SS + Graphite inhibited							
10-11	**Stem Packing**	Braided and Flexible Graphite							
12	**Eyebolts Pin**	A276-410							
14	**Gland Flange**	A216 WCB	A352LCB	A217WC6	A217 WC5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
15	**Gland Eyebolts**	A193-B7	A320-L7	A193-B16		A193-B8			
16	**Gland Nuts**	A194-2H	A194-4	A194-4		A194-8			
17	**Stem Nut**	ASTM A439-D2							
18	**Stem Nut Screw**	Carbon Steel		410					
19	**Hand Wheel**	Ductile Iron or Steel							
20	**Washer**	Carbon Steel				410			
21	**Hand Wheel Nut**	Stainless Steel							

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CLASS 600 Lb

Product Range

SIZE		DIMENSION IN mm						WEIGHT	
INCHES	MM	L(RF)	L(BW)	H Open	H1	Ø D	Ø Da	Kg (handwheel)	Kg (gear operator)
2”	50	292	-	445	-	250	-	45	-
2-12”	65	330	-	-	-	-	-	52	-
3”	80	356	-	540	-	320	-	77	-
4”	100	432	-	645	-	450	305	125	151
6”	150	559	-	808	-	600	460	327	376
8”	200	660	-	945	990	700	610	496	594
10”	250	787	-	1050	1100	1000	610	720	1010
12”	300	838	-	1215	1218	1000	610	1070	1360
14”	350	889	-	1430	1295	-	-	1750	-
16”	400	991	-	-	1435	-	800	2260	2725
18”	450	1092	-	-	1570	-	800	2900	3365
20”	500	1194	-	-	1700	-	800	3500	3965
22”	550	1295	-	-	1845	-	800	-	-
24”	600	1397	-	-	2005	-	800	4600	5065

For Face-to-Face dimension L (RTJ), add +3 mm from size 2” up to 18” add +6 mm for size 20”, add +10 mm for sizes 22” and 24”

ANSI CLASS 600

Pressure - temperature ratings to ANSI B16.34

TEMP.	WORKING PRESSURE (BAR .G)									
C°	CARBON STEEL		ALLOY STEEL				STAINLESS STEEL			
	WCB (a)	LCB (b)	WC6 (c)	WC9 (c)	C5 (g)	C12 (g)	CF8 (d)	CF8M (d)	CF3 (e)	CF3M (f)
-29 to 38	102.1	96	103.4	103.4	103.4	103.4	99.3	99.3	99.3	99.3
50	100.2	94.9	103.4	103.4	103.4	103.4	95.6	96.2	95.6	96.2
100	93.2	90.7	103	103	103	103	81.7	84.4	81.7	84.4
150	90.2	87.9	99.5	100.3	100.3	100.3	74	77	74	77
200	87.6	85.1	95.9	97.2	97.2	97.2	69	71.3	69	71.3
250	83.9	81.6	92.7	92.7	92.7	92.7	65	66.8	65	66.8
300	79.6	77.4	85.7	85.7	85.7	85.7	61.8	63.2	61.8	63.2
350	75.1	72.8	80.4	80.4	80.4	80.4	59.3	60.7	59.3	60.7
400	69.4	65.2	73.3	73.3	73.3	73.3	56.9	58.9	56.9	58.9
425	57.5	54.6	70	70	70	70	56	58.3	56	58.3
450	46	43.2	67.7	67.7	67.7	67.7	54.8	57.7	54.8	57.7
500	23.5	22.1	51.5	56.5	42.8	56.5	53	56.5	53	56.5
538	11.8	11.8	29.8	36.9	27.4	35	48.9	50	48.9	50
550	-	-	25.4	31.3	24.1	30	47.1	49.8	47.1	49.8
600	-	-	12.2	13.8	12.5	14.4	33.8	39.8	33.8	39.8
650	-	-	-	-	-	-	22.5	25.3	22.5	25.3
700	-	-	-	-	-	-	16.1	16.8	16.1	16.8
750	-	-	-	-	-	-	11.6	11.7	11.6	11.7
800	-	-	-	-	-	-	-	-	-	-

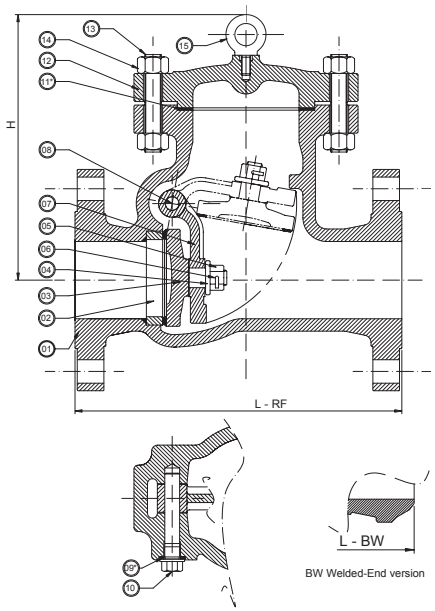
a) Permissible, but not recommended for prolonged usage above 425 °C
(b) Not be used over 345 °C.
(c) Permissible, but not recommended for prolonged usage above 595 °C Flanged End valve ratings terminate at 538°C.
(d) At temperature above 538 °C, use only when carbon content is 0.04 % or higher. Flanged End valve ratings terminate at 538°C
(e) Not be used over 425 °C. Flanged End valve ratings terminate at 538°C.
(f) Not be used over 455 °C. Flanged End valve ratings terminate at 538°C.
(g) Flanged End valve ratings terminate at 538°C.

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Swing

CLASS 150

- Full Opening
- Flow direction is stamped on body
- Bolted Cover Joint
- Welded Seat Ring
- Lifting Eyebolt from 30 Kg and heavier
- Special features according to Customer's requirement
- Available accessories:
- Outside lever with counter weight
- Shock absorber (pneumatic cylinder)
- Limit switch



Design Standards	API 6D - ANSI B16.34		
Face to Face Dimension	ANSI B16.10		
Flanges	Up to 24" ANSI B16.5 - From 26" MSS SP44 ANSI B16.47 API 605		
Butt-weld ends	ANSI B16.25		
Testing	API 598 / API 6D		
TEST PRESSURE TO API 598 Psi/bar	Shell (water)	Seat (water)	Seat (air)
	430/30	315/22	80/5.5

CLASS 150 Lb

TRIM NUMBER AS PER API 600									
No	**Part Name**	**1**	**2**	**8**	**5**	**9**	**10**	**12**	**16**
02	**Seat Ring**	**410**	**304**	**STL Gr6**	**STL Gr6**	**MONEL**	**316**	**STL Gr6**	**STL Gr6**
03	**Disc**			**410**	**STL Gr6**			**316**	**STL Gr6**
04	**Washer**			**410**	**410**				**316**
05	**Disc Nut**								
06	**Pin**								
08	**Disc Pin**								
10	**Plug**								

BILL OF MATERIALS STANDARD ACCORDING TO ASTM									
COMPONENT		**CARBON STEEL**		**ALLOY STEEL**		**STAINLESS STEEL**			
No	**Part Name**	**WCB**	**LCB**	**WC6**	**C5**	**CF8**	**CF8M**	**CF3**	**CF3M**
01	**Body**	A216 WCB	A352LCB	A217WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
07	**Disc Hinge**	A216 WCB	A352LCB	A217WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
12	**Cover**	A216 WCB	A352LCB	A217WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
13	**Bonnet Bolts**	A193-B7	A320-L7	A193-B16		A193-B8			
14	**Bonnet Nuts**	A194-2H	A194-4	A194-4		A194-8			
11	**Body / Cover gasket**	304 SS + Graphite inhibited							
09	**Plug Gasket**	304 SS + Graphite inhibited							
15	**Lifting Eyebolt**	Iron Steel							

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CLASS 150 Lb

Product Range

SIZE		DIMENSION IN mm			WEIGHT
INCHES	MM	L(RF)	L(BW)	H	Kg
2”	50	203	203	150	19
3”	80	241	241	175	29
4”	100	292	292	210	49
6”	150	356	356	315	77
8”	200	495	495	365	140
10”	250	622	622	445	207
12”	300	698	698	520	330
14”	350	787	787	600	410
16”	400	864	864	615	600
18”	450	978	978	655	680
20”	500	978	978	670	750
22”	550	1067	1067	725	-
24”	600	1295	1295	765	1280

ANSI CLASS 150

Pressure - temperature ratings to ANSI B16.34

TEMP.	WORKING PRESSURE (BAR .G)									
C°	CARBON STEEL		ALLOY STEEL				STAINLESS STEEL			
	WCB (a)	LCB (b)	WC6 (c)	WC9 (c)	C5 (g)	C12 (g)	CF8 (d)	CF8M (d)	CF3 (e)	CF3M (f)
-29 to 38	19.6	18.4	19.8	19.8	20	20	19	19	19	19
50	19.2	18.2	19.5	19.5	19.5	19.5	18.3	18.4	18.3	18.4
100	17.7	17.4	17.7	17.7	17.7	17.7	15.7	16.2	15.7	16.2
150	15.8	15.8	15.8	15.8	15.8	15.8	14.2	14.8	14.2	14.8
200	13.8	13.8	13.8	13.8	13.8	13.8	13.2	13.7	13.2	13.7
250	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
300	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
350	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
400	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
425	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
450	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
500	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
538	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
550	-	-	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
600	-	-	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
650	-	-	-	-	-	-	1.4	1.4	1.4	1.4
700	-	-	-	-	-	-	1.4	1.4	1.4	1.4
750	-	-	-	-	-	-	1.4	1.4	1.4	1.4
800	-	-	-	-	-	-	-	-	-	-

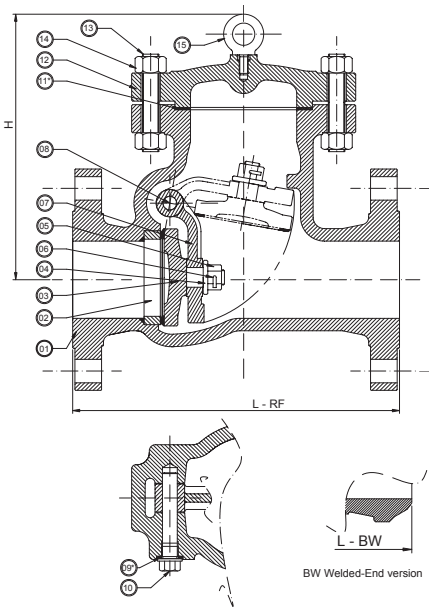
a) Permissible, but not recommended for prolonged usage above 425 °C
(b) Not be used over 345 °C.
(c) Permissible, but not recommended for prolonged usage above 595 °C Flanged End valve ratings terminate at 538°C.
(d) At temperature above 538 °C, use only when carbon content is 0.04 % or higher. Flanged End valve ratings terminate at 538°C
(e) Not be used over 425 °C. Flanged End valve ratings terminate at 538°C.
(f) Not be used over 455 °C. Flanged End valve ratings terminate at 538°C.
(g) Flanged End valve ratings terminate at 538°C.

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Swing

CLASS 300

- Full Opening
- Flow direction is stamped on body
- Bolted Cover Joint
- Welded Seat Ring
- Lifting Eyebolt from 30 Kg and heavier
- Special features according to Customer's requirement
- Available accessories:
- Outside lever with counter weight
- Shock absorber (pneumatic cylinder)
- Limit switch



Design Standards	API 6D - ANSI B16.34		
Face to Face Dimension	ANSI B16.10		
Flanges	Up to 24" ANSI B16.5 - From 26" MSS SP44 ANSI B16.47 API 605		
Butt-weld ends	ANSI B16.25		
Testing	API 598 / API 6D		
TEST PRESSURE TO API 598 Psi/bar	Shell (water)	Seat (water)	Seat (air)
	1100/76	800/55	80/5.5

CLASS 300 Lb

TRIM NUMBER AS PER API 600									
No	**Part Name**	**1**	**2**	**8**	**5**	**9**	**10**	**12**	**16**
02	**Seat Ring**	**410**	**304**	**STL Gr6**	**STL Gr6**	**MONEL**	**316**	**STL Gr6**	**STL Gr6**
03	**Disc**			**410**	**STL Gr6**			**316**	**STL Gr6**
04	**Washer**			**410**	**410**				**316**
05	**Disc Nut**								
06	**Pin**								
08	**Disc Pin**								
10	**Plug**								

BILL OF MATERIALS STANDARD ACCORDING TO ASTM									
COMPONENT		**CARBON STEEL**		**ALLOY STEEL**		**STAINLESS STEEL**			
No	**Part Name**	**WCB**	**LCB**	**WC6**	**C5**	**CF8**	**CF8M**	**CF3**	**CF3M**
01	**Body**	A216 WCB	A352LCB	A217WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
07	**Disc Hinge**	A216 WCB	A352LCB	A217WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
12	**Cover**	A216 WCB	A352LCB	A217WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
13	**Bonnet Bolts**	A193-B7	A320-L7	A193-B16		A193-B8			
14	**Bonnet Nuts**	A194-2H	A194-4	A194-4		A194-8			
11	**Body / Cover gasket**	304 SS + Graphite inhibited							
09	**Plug Gasket**	304 SS + Graphite inhibited							
15	**Lifting Eyebolt**	Iron Steel							

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CLASS 300 Lb

Product Range

SIZE		DIMENSION IN mm			WEIGHT
INCHES	MM	L(RF)	L(BW)	H	Kg
2”	50	267	267	180	24
3”	80	318	318	230	45
4”	100	356	356	270	75
6”	150	444	444	330	124
8”	200	533	533	410	190
10”	250	622	622	460	325
12”	300	711	711	550	475
14”	350	838	838	610	690
16”	400	864	864	670	900
18”	450	978	978	700	1100
20”	500	1016	1016	725	1330
22”	550	1118	1118	825	-
24”	600	1346	1346	1080	1950

For Face-to-Face dimension L (RTJ), add +16 mm from size 2” up to 18” add +19 mm for size 20”, add +22 mm for sizes 22” and 24”

ANSI CLASS 300

Pressure - temperature ratings to ANSI B16.34

TEMP.	WORKING PRESSURE (BAR .G)									
C°	CARBON STEEL		ALLOY STEEL				STAINLESS STEEL			
	WCB (a)	LCB (b)	WC6 (c)	WC9 (c)	C5 (g)	C12 (g)	CF8 (d)	CF8M (d)	CF3 (e)	CF3M (f)
-29 to 38	51.1	48	51.7	51.7	51.7	51.7	49.6	49.6	49.6	49.6
50	50.1	47.5	51.7	51.7	51.7	51.7	47.8	48.1	47.8	48.1
100	46.6	45.3	51.5	51.5	51.5	51.5	40.9	42.2	40.9	42.2
150	45.1	43.9	49.7	50.3	50.3	50.3	37	38.5	37	38.5
200	43.8	42.5	48	48.6	48.6	48.6	34.5	35.7	34.5	35.7
250	41.9	40.8	46.3	46.3	46.3	46.3	32.5	33.4	32.5	33.4
300	39.8	38.7	42.9	42.9	42.9	42.9	30.9	31.6	30.9	31.6
350	37.6	36.4	40.3	40.3	40.3	40.3	29.6	30.3	29.6	30.3
400	34.7	32.6	36.5	36.5	36.5	36.5	28.4	29.4	28.4	29.4
425	28.8	27.3	35.2	35.2	35.2	35.2	28	29.1	28	29.1
450	23	21.6	33.7	33.7	33.7	33.7	27.4	28.8	27.4	28.8
500	11.8	11.1	25.7	28.2	28.2	28.2	26.5	28.2	26.5	28.2
538	5.9	5.9	14.9	18.4	13.7	17.5	24.4	25.2	24.4	25.2
550	-	-	12.7	15.6	12	15	23.6	25	23.6	25
600	-	-	6.1	6.9	6.2	7.2	16.9	19.9	16.9	19.9
650	-	-	-	-	-	-	11.3	12.7	11.3	12.7
700	-	-	-	-	-	-	8	8.4	8	8.4
750	-	-	-	-	-	-	5.8	5.9	5.8	5.9
800	-	-	-	-	-	-	-	-	-	-

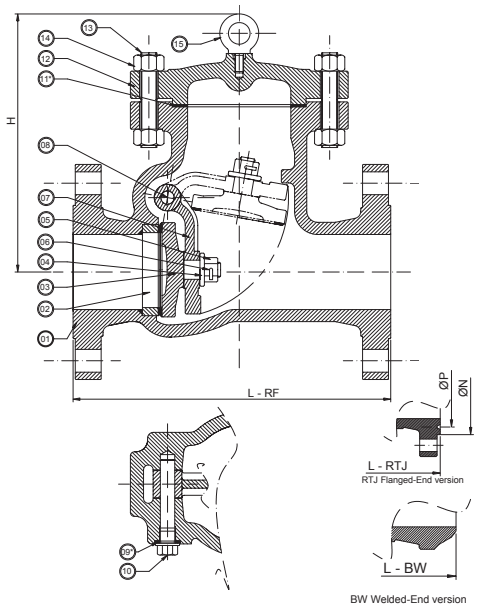
a) Permissible, but not recommended for prolonged usage above 425 °C
(b) Not be used over 345 °C.
(c) Permissible, but not recommended for prolonged usage above 595 °C Flanged End valve ratings terminate at 538°C.
(d) At temperature above 538 °C, use only when carbon content is 0.04 % or higher. Flanged End valve ratings terminate at 538°C
(e) Not be used over 425 °C. Flanged End valve ratings terminate at 538°C.
(f) Not be used over 455 °C. Flanged End valve ratings terminate at 538°C.
(g) Flanged End valve ratings terminate at 538°C.

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Swing

CLASS 600

- Full Opening
- Flow direction is stamped on body
- Bolted Cover Joint
- Welded Seat Ring
- Lifting Eyebolt from 30 Kg and heavier
- Special features according to Customer's requirement
- Available accessories:
- Outside lever with counter weight
- Shock absorber (pneumatic cylinder)
- Limit switch



Design Standards	API 6D - ANSI B16.34		
Face to Face Dimension	ANSI B16.10		
Flanges	Up to 24" ANSI B16.5 - From 26" MSS SP44 ANSI B16.47 API 605		
Butt-weld ends	ANSI B16.25		
Testing	API 598 / API 6D		
TEST PRESSURE TO API 598 Psi/bar	Shell (water)	Seat (water)	Seat (air)
	2175/150	1600/110	80/5.5

CLASS 300 Lb

TRIM NUMBER AS PER API 600									
No	**Part Name**	**1**	**2**	**8**	**5**	**9**	**10**	**12**	**16**
02	**Seat Ring**	**410**	**304**	**STL Gr6**	**STL Gr6**	**MONEL**	**316**	**STL Gr6**	**STL Gr6**
03	**Disc**			**410**	**STL Gr6**			**316**	**STL Gr6**
04	**Washer**			**410**	**410**				**316**
05	**Disc Nut**								
06	**Pin**								
08	**Disc Pin**								
10	**Plug**								

BILL OF MATERIALS STANDARD ACCORDING TO ASTM									
COMPONENT		**CARBON STEEL**		**ALLOY STEEL**		**STAINLESS STEEL**			
No	**Part Name**	**WCB**	**LCB**	**WC6**	**C5**	**CF8**	**CF8M**	**CF3**	**CF3M**
01	**Body**	A216 WCB	A352LCB	A217WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
07	**Disc Hinge**	A216 WCB	A352LCB	A217WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
12	**Cover**	A216 WCB	A352LCB	A217WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
13	**Bonnet Bolts**	A193-B7	A320-L7	A193-B16		A193-B8			
14	**Bonnet Nuts**	A194-2H	A194-4	A194-4		A194-8			
11	**Body / Cover gasket**	304 SS + Graphite inhibited							
09	**Plug Gasket**	304 SS + Graphite inhibited							
15	**Lifting Eyebolt**	Iron Steel							

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CLASS 600 Lb

Product Range

SIZE		DIMENSION IN mm			WEIGHT
INCHES	MM	L(RF)	L(BW)	H	Kg
2”	50	292	292	230	40
3”	80	356	356	270	60
4”	100	432	432	310	103
6”	150	559	559	400	230
8”	200	660	660	460	355
10”	250	787	787	580	627
12”	300	838	838	620	790
14”	350	889	889	660	820
16”	400	991	991	710	1400
18”	450	1092	1092	765	1800
20”	500	1194	1194	885	2300
22”	550	1295	1295	-	-
24”	600	1397	1397	1020	3330

For Face-to-Face dimension L (RTJ), add +16 mm from size 2” up to 18” add +19 mm for size 20”, add +22 mm for sizes 22” and 24”

ANSI CLASS 600

Pressure - temperature ratings to ANSI B16.34

TEMP.	WORKING PRESSURE (BAR .G)									
C°	CARBON STEEL		ALLOY STEEL				STAINLESS STEEL			
	WCB (a)	LCB (b)	WC6 (c)	WC9 (c)	C5 (g)	C12 (g)	CF8 (d)	CF8M (d)	CF3 (e)	CF3M (f)
-29 to 38	102.1	96	103.4	103.4	103.4	103.4	99.3	99.3	99.3	99.3
50	100.2	94.9	103.4	103.4	103.4	103.4	95.6	96.2	95.6	96.2
100	93.2	90.7	103	103	103	103	81.7	84.4	81.7	84.4
150	90.2	87.9	99.5	100.3	100.3	100.3	74	77	74	77
200	87.6	85.1	95.9	97.2	97.2	97.2	69	71.3	69	71.3
250	83.9	81.6	92.7	92.7	92.7	92.7	65	66.8	65	66.8
300	79.6	77.4	85.7	85.7	85.7	85.7	61.8	63.2	61.8	63.2
350	75.1	72.8	80.4	80.4	80.4	80.4	59.3	60.7	59.3	60.7
400	69.4	65.2	73.3	73.3	73.3	73.3	56.9	58.9	56.9	58.9
425	57.5	54.6	70	70	70	70	56	58.3	56	58.3
450	46	43.2	67.7	67.7	67.7	67.7	54.8	57.7	54.8	57.7
500	23.5	22.1	51.5	56.5	42.8	56.5	53	56.5	53	56.5
538	11.8	11.8	29.8	36.9	27.4	35	48.9	50	48.9	50
550	-	-	25.4	31.3	24.1	30	47.1	49.8	47.1	49.8
600	-	-	12.2	13.8	12.5	14.4	33.8	39.8	33.8	39.8
650	-	-	-	-	-	-	22.5	25.3	22.5	25.3
700	-	-	-	-	-	-	16.1	16.8	16.1	16.8
750	-	-	-	-	-	-	11.6	11.7	11.6	11.7
800	-	-	-	-	-	-	-	-	-	-

a) Permissible, but not recommended for prolonged usage above 425 °C
(b) Not be used over 345 °C.
(c) Permissible, but not recommended for prolonged usage above 595 °C Flanged End valve ratings terminate at 538°C.
(d) At temperature above 538 °C, use only when carbon content is 0.04 % or higher. Flanged End valve ratings terminate at 538°C
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(f) Not be used over 455 °C. Flanged End valve ratings terminate at 538°C.
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Materials

VALVE BODY AND BONNET MATERIAL - COMPARISON TABLE					
MATERIAL GROUP	**COMMON NAME**	**NOMINAL TYPE**	**CASTING SPEC.**	**FORGING SPEC. EQUIVALENT**	**APPLICATION NOTES**
Carbon Steel	CS	C-Mn-Fe	A216 WCB	A105N	Non corrosive service from -20°F (-29°C) to 800°F (427°C)
Low Temperature Carbon Steel	LTCS	C-Mn-Fe	A352 LCB		General non corrosive service from -50°F (-46°C) to 650°F (343°C), LF2 to 800°F (427°C)
			A352 LCC	A350 LF2	
Low Temperature Alloy Steel	Nickel Steel		A352 LC1	A350 LF1	**Temperature from:** LC1 -100°F (-50°C) to 650°F (343°C) LC2 -100°F (-73°C) to 650°F (343°C) LC3 -150°F (-101°C) to 650°F (343°C)
		2 - ½ Ni	A352 LC2		
		3 - ½ Ni	A352 LC3	A350 LF3	
Alloy Steel	Alloy Steel				**Temperature up to:**
		C- ½ Mo	A217 WC1	A182 F1	875°F (468°C)
		1-1/4 Cr - ½ Mo	A217 WC6	A182 F11	1100°F (593°C)
		2-1/4 Cr - 1 Mo	A217 WC9	A182 F22	1100°F (593°C)
		5 Cr - ½ Mo	A217 C5	A182 F5	1200°F (649°C)
		9 Cr - 1 Mo	A217 C12	A182 F9	1200°F (649°C)
		9 Cr - 1 Mo - V	A217 C12A	182 F91	
Stainless Steel	300 series Stainless Steel Austenitic Stainless Steel				**Temperature from -321°F (-196°C) to:**
		316: 16Cr-12Ni-2Mo	A351 CF8M	A182 F316	1000°F (538°C). Over 1000°F (538°C) with 0.04% min carbon
		316L: 16Cr-12Ni-2Mo	A351 CF3M	A182 F316L	850°F (454°C)
		304: 18Cr-8Ni	A351 CF8	A182 F304	1000°F (538°C). Over 1000°F (538°C) with 0.04% min carbon
		304L: 18Cr-8Ni	A351 CF3	A182 F304L	800°F (427°C)
		347: 18Cr-10Ni-Cb(Nb)	A351 CF8C	A182 F347	1000°F (538°C). Over 1000°F (538°C) with 0.04% min carbon
		321: 18Cr-10Ni-Ti		A182 F321	1000°F (538°C)
	Alloy 20	28Ni-19Cr-Cu-Mo	A351 CN7M	A182 F20	Temperature up to: 600°F (316°C)
	Duplex 2205	22Cr-5Ni-3Mo-N UNS S31803	A890 J92205 A890 4A	A182 F51	Temperature up to: 600°F (316°C)
	Super Duplex 2507	25Cr-5Ni-4Mo-N UNS S32750	A351 CD4MCu A890 5A	A182 F53	Temperature up to: 600°F (316°C)
	Super Austenitic 6Mo	20Cr-18Ni-6Mo UNS S31254	A351 CK3MCuN	A182 F44	Temperature up to: 600°F (316°C)
Nickel - Iron Alloy					**Temperature up to:**
	Incoloy 802	35Ni-35Fe-20Cr-Cb	A351 CT15C	B462 N08020	800°F (427°C)
	Incoloy 825	42Ni-21.5Cr-3Mo-2.3Cu	A494 CU5MCuC	B564 N08825	1000°F (538°C)
Nickel					Temperature up to: 600°F (316°C) for N02200, 200°F (648°C) for N02201
	Nickel	95/99Ni	A494 CZ-100	B160 N02200/1	
Nickel Copper	Monel 400	67Ni-30Cu	A494 M35-1	B564 N04400	900°F (482°C)
	Monel 500			B564 N05500	
Nickel Alloy	904 L			904 L N08904	
Nickel - Molybdenum					**Temperature up to:**
	Hastelloy B	62Ni-28Mo-5Fe	A494 N- 12MV	B335 N10001	800°F (427°C)
	Hastelloy B-2	65Ni-28Mo-2Fe	A494 N- 7M	B335 N10665	800°F (427°C)
Nickel Superalloy					Temperature up to:
	Inconel 600	72Ni-15Cr-8Fe	A494 CY40	B564 N06600	1200°F (649°C)
	Inconel 625	60Ni-22Cr-9Mo-305Cb	A494 - CW-6MC	B564 N06625	1200°F (649°C)
	Hastelloy C-4	61Ni-16Mo-16Cr	A494 CW-6M	B574 N06455	800°F (427°C)
	Hastelloy C-276	54Ni-16Mo-15Cr	A494 CW-2M	B574 N10276	1250°F (677°C)

VOGT Valves are manufactured in a wide range of materials, supplied by the best available steel mill. All the material can be certified in the chemical composition and the mechanical characteristic.

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Materials

The following tables shown main Standard combination of Body and Bonnet or Cover materials and Trim (stem, disc or wedge, seat, gland) composition. Different combinations are available upon request.

VOGT TRIM STANDARD DEFINITION				
TRIM NR.	**SEAT RING**	**WEDGE / DISC**	**STEM & BACKSEAT**	**GLAND**
1	13% Cr	13% Cr	13% Cr	13% Cr
2	304	304	304	304
8	Stellite	13% Cr	13% Cr	13% Cr
5	Stellite	Stellite	13% Cr	13% Cr
10	316	316	316	316
12	Stellite	316	316	316
16	316 + Stellite	316 + Stellite	316	316

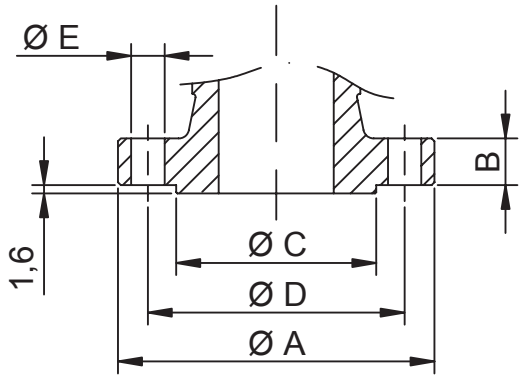
DESIGN AND MANUFACTURING STANDARDS	
REFERENCE	**TITLE**
EN 10204	Metallic products - Type of inspection documents
NACE MR01-75 / ISO 15156	Petroleum and natural gas industries - Materials for use in H2Scontaining environments in oil and gas production
MSS SP 25	Standard Marking System for Valves, Fittings, Flanges and Unions
MSS SP 45	By-pass and Drain Connections
MSS SP 54	Quality Standards for Steel Castings for Valves, Flanges, and Fittings and Other Piping Components – Radiographic Examination Method
MSS SP 55	Quality Standards for Steel Castings for Valves, Flanges, and Fittings and Other Piping Components - Visual Inspection
ASME B 16.5	Pipe Flanges and Flanged Fittings
ASME B16.10	Face-to-Face and End-to-End Dimension of Ferrous Valves
ASME B 16.25	Buttwelding Ends
ASME B 16.34	Valves-Flanged, Threaded, and Welding End
ASME B 16.47	Large Diameter Steel Flanges (NPS 26 through NPS 60)
ASTM A 216	Carbon Steel Castings Suitable for Fusion Welding for High-Temperature Service
ASTM A 217	Martensitic Stainless Steel and Alloy Steel Castings for Pressure Containing Parts Suitable for High Temperature Service
ASTM A 351	Austenitic Steel Castings for High Temperature Service
ASTM A 352	Ferritic Steel Castings for Pressure Containing Parts Suitable for Low Temperature Service
API 6D / ISO 10413	Specification for Pipeline Valves (Gate, Plug, Ball, and Check Valves)
API 598	Valve Inspection and Testing
API 600 / ISO 10434	Steel Gate Valves Flanged and Butt welding Ends
BS 1873	Steel Globe and Globe Stop and check Valves (Flanged and buut welding ends for the Petroleum)
97/23/EC	Pressure Equipment Directive
94/9/EC	Equipment for use in potentially explosive atmospheres
ASME V	Non-destructive Examination
ASME VIII division 1	Rules for Construction of Pressure Vessels
ASME Section IX	Welding and brazing qualifications

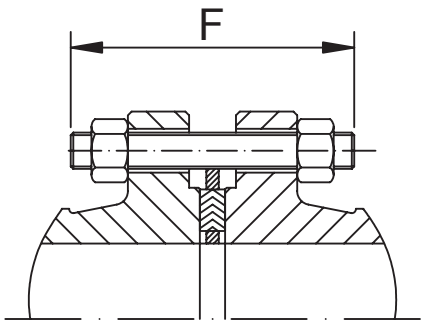
Note: These charts are for reference only. VOGT recommends Customer Engineers to analyse service requirements and specify the materials they consider optimum. VOGT can not be held liable for any damage occurred due to the use of the table.

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Facing Dimension - Raised Face

Facing Dimensions of Raised Face
Rating 150 - 300 # according to ASME B16.5





CLASS 150 RF (ISO PN 20)

NPS	A	B	C	D	E	Bolting		F
	mm	mm	mm	mm	mm	no.	Diam.	mm
2”	152,4	19,1 (*)	92,1	120,6	19,1	4	5/8	85,0
3”	190,5	23,9 (*)	127,0	152,4	19,1	4	5/8	95,0
4”	228,6	23,9	157,2	190,5	19,1	8	5/8	95,0
6”	279,4	25,4	215,9	241,3	22,4	8	3/4	100,0
8”	342,9	28,5	269,9	298,4	22,4	8	3/4	110,0
10”	406,4	30,3	323,8	361,9	25,4	12	7/8	120,0
12”	482,6	31,8	381,0	431,8	25,4	12	7/8	120,0
14”	533,4	35,1	412,7	476,2	28,6	12	1	135,0
16”	596,9	36,6	469,9	539,7	28,6	16	1	140,0
18”	635,0	39,7	533,4	577,8	31,8	16	1-1/8	150,0
20”	698,5	43,0	584,2	635,0	31,8	20	1-1/8	160,0
22”	749,3	46,0	641,2	692,1	35,1	20	1-1/4	175,0
24”	812,8	47,8	692,1	749,3	35,1	20	1-1/4	180,0

CLASS 300 RF (ISO PN 50)

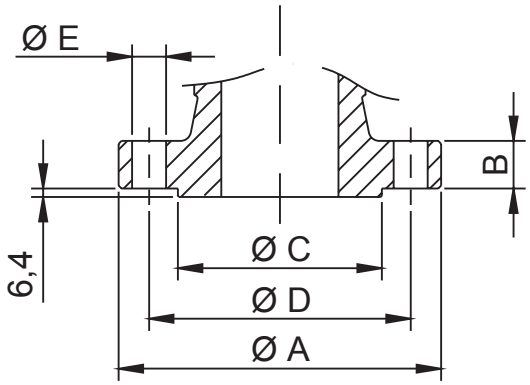
NPS	A	B	C	D	E	Bolting		F
	mm	mm	mm	mm	mm	no.	Diam.	mm
2”	165,1	22,4	92,1	127,0	19,1	8	5/8	90,0
3”	209,5	28,5	127,0	168,3	22,4	8	3/4	110,0
4”	254,0	31,8	157,2	200,0	22,4	8	3/4	115,0
6”	317,5	36,6	215,9	269,9	22,4	12	3/4	125,0
8”	381,0	41,2	269,9	330,2	25,4	12	7/8	140,0
10”	444,5	47,8	323,8	387,3	29,6	16	1	160,0
12”	520,7	50,8	381,0	450,8	31,8	16	1-1/8	170,0
14”	584,2	53,9	412,7	514,3	31,8	20	1-1/8	180,0
16”	647,2	57,2	469,9	571,5	35,1	20	1-1/4	190,0
18”	711,0	60,5	533,4	628,6	35,1	24	1-1/4	195,0
20”	774,5	63,5	584,2	685,8	35,1	24	1-1/4	210,0
22”	838,2	66,5	641,2	742,9	41,3	24	1-1/2	230,0
24”	914,4	69,9	692,1	812,8	41,3	24	1-1/2	235,0

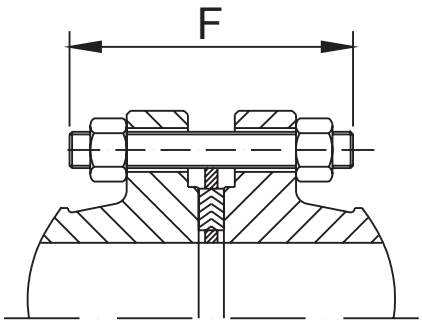
(1) The regular 1/16 inch (1,6 mm) raised face 150 and 300 lb flanges is not included in the minimum flange thickness given above.
* For integral Valve flange of Class 150, the dimension “B” became 15,8 for Ø 2” and 19,1 for Ø 3”.
This

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Facing Dimension - Raised Face

Facing Dimensions of Raised Face
Rating 600 - 900 # according to ASME B16.5





CLASS 600 RF (ISO PN 110)

NPS	A	B	C	D	E	Bolting		F
	mm	mm	mm	mm	mm	no.	Diam.	mm
2”	165,1	25,4	92,1	127,0	19,1	8	5/8	110,0
3”	209,6	31,8	127,0	168,3	22,4	8	3/4	125,0
4”	273,0	38,1	157,2	215,9	25,4	8	7/8	145,0
6”	355,6	47,8	215,9	292,1	28,6	12	1	170,0
8”	419,1	55,7	269,9	349,2	31,8	12	1-1/8	195,0
10”	508,0	63,5	323,8	431,8	35,1	16	1-1/4	215,0
12”	558,8	66,6	381,0	488,9	35,1	20	1-1/4	220,0
14”	603,2	69,9	412,7	527,0	38,1	20	1-3/8	235,0
16”	685,8	76,2	469,9	603,2	41,3	20	1-1/2	255,0
18”	742,9	82,6	533,4	654,0	44,5	20	1-5/8	275,0
20”	812,8	88,9	584,2	723,9	44,5	24	1-5/8	290,0
22”	869,9	95,3	641,2	777,9	47,8	24	1-3/4	310,0
24”	939,8	101,6	692,1	838,2	50,8	24	1-7/8	330,0

CLASS 900 RF (ISO PN 150)

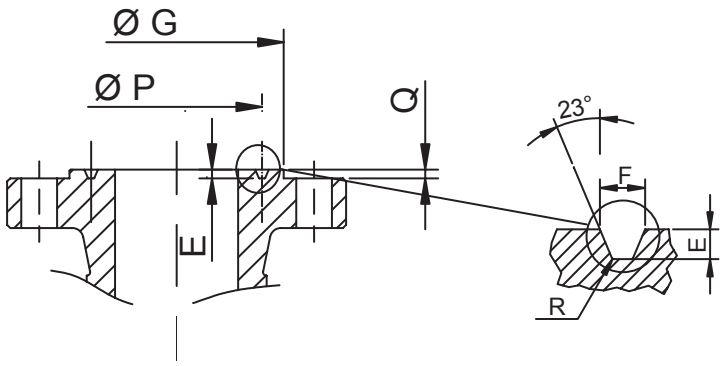
NPS	A	B	C	D	E	Bolting		F
	mm	mm	mm	mm	mm	no.	Diam.	mm
2”	216,0	38,1	92,1	165,1	25,4	8	7/8	145,0
3”	241,3	38,1	127,0	190,5	25,4	8	7/8	145,0
4”	292,0	44,5	157,2	235,0	31,8	8	1-1/8	170,0
6”	381,0	55,7	215,9	317,5	31,8	12	1-1/8	195,0
8”	470,0	63,5	269,9	393,7	38,1	12	1-3/8	220,0
10”	546,0	69,9	323,8	469,9	38,1	16	1-3/8	235,0
12”	609,5	79,3	381,0	533,4	38,1	20	1-3/8	255,0
14”	641,5	85,9	412,7	558,8	41,3	20	1-1/2	275,0
16”	705,0	88,9	469,9	616,0	45,0	20	1-5/8	265,0
18”	787,5	101,6	533,4	685,8	51,0	20	1-7/8	325,0
20”	857,5	108,0	584,2	749,3	54,0	20	2	345,0
22”	-	-	-	-	-	-	-	-
24”	1041,5	139,7	692,1	901,7	66,5	20	2-1/2	440,0

The regular 1/4 inch (6,4 mm) raised face of 600 and 900 Lbs flanges is not included in the minimum flange thickness given above.

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Facing Dimension - Ring Joint

Facing Dimensions of Ring Joint Grooves
Rating 150 - 300 - 600 – 900 – 1500 # according to ASME B16.5



TOLERANCES

Dim. E = + 0,40

Dim. F = ± 0,20

Dim. P = ± 0,150

Dim. Q = + 0,40

23° = ± 1/2°

R ≤ 1,6 + 0,8

R > 1,6 ± 0,8

RATING 150 LBS

NPS	RJ	P	F	G	E	R
2”	R22	82,5	8,7	101,6	6,4	0,8
3”	R29	114,3	8,7	133,3	6,4	0,8
4”	R36	149,2	8,7	171,4	6,4	0,8
6”	R43	193,7	8,7	219,1	6,4	0,8
8”	R48	247,6	8,7	273	6,4	0,8
10”	R52	304,8	8,7	330,2	6,4	0,8
12”	R56	381	8,7	406,4	6,4	0,8
14”	R59	396,9	8,7	425,4	6,4	0,8
16”	R64	454	8,7	482,6	6,4	0,8
18”	R68	517,5	8,7	546,1	6,4	0,8
20”	R72	558,8	8,7	596,9	6,4	0,8
22”	R80	615,9	8,7	647,7	6,4	0,8
24”	R76	673,1	8,7	711,2	6,4	0,8

RATING 300 - 600 LBS

NPS	RJ	P	F	G	E	R
2”	R23	82,5	11,9	107,9	7,9	0,8
3”	R31	123,8	11,9	146	7,9	0,8
4”	R37	149,2	11,9	174,6	7,9	0,8
6”	R45	211,1	11,9	241,3	7,9	0,8
8”	R49	269,9	11,9	301,6	7,9	0,8
10”	R53	323,8	11,9	355,6	7,9	0,8
12”	R57	381	11,9	412,7	7,9	0,8
14”	R61	419,1	11,9	457,2	7,9	0,8
16”	R65	469,9	11,9	508	7,9	0,8
18”	R69	533,4	11,9	574,7	7,9	0,8
20”	R73	584,2	13,5	635	9,5	1,6
22”	R81	635	15,1	685,8	11,1	1,6
24”	R77	692,1	16,7	749,3	11,1	1,6

RATING 900 LBS

NPS	RJ	P	F	G	E	R
2”	R24	95,2	11,9	123,8	7,9	0,8
3”	R31	123,8	11,9	155,6	7,9	0,8
4”	R37	149,2	11,9	181	7,9	0,8
6”	R45	211,1	11,9	241,3	7,9	0,8
8”	R49	269,9	11,9	308	7,9	0,8
10”	R53	323,8	11,9	361,9	7,9	0,8
12”	R57	381	11,9	419,1	7,9	0,8
14”	R62	419,9	16,7	466,7	11,1	1,6
16”	R66	469,9	16,7	523,9	11,1	1,6
18”	R70	533,4	19,8	593,7	12,7	1,6
20”	R74	584,2	19,8	647,7	12,7	1,6
24”	R78	691,1	27	771,5	15,9	2,4

RATING 300 - 600 LBS

NPS	RJ	P	F	G	E	R
2”	R24	95,2	11,9	123,8	7,9	0,8
3”	R35	136,5	11,9	168,5	7,9	0,8
4”	R39	161,9	11,9	193,7	7,9	0,8
6”	R46	211,1	13,5	247,6	9,5	1,6
8”	R50	269,9	16,7	317,5	11,1	1,6
10”	R54	323,8	16,7	371,5	11,1	1,6
12”	R58	881	23	438,1	14,3	1,6
14”	R63	419,1	27	488,9	15,9	2,4
16”	R67	469,9	30,2	546,1	17,5	2,4
18”	R71	533,4	30,2	612,8	17,5	2,4
20”	R75	584,2	33,3	673,1	17,5	2,4
24”	R79	692,1	36,5	793,77,9	20,6	2,4

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