

DT2210

Live Technology & Valuable Valves

DoTEC® FORGED STEEL VALVES





YOUR BEST PARTNER

A BRAND depicting superior quality and meeting global practice standards ABOUT US

We, DoTEC CO., LTD. are a professional & specialist valve manufacturing company with many years of proven track record.

We are dedicated to design, develop and manufacture a wide range of superior quality valves and customer-orientated in offering prompt service. This catalog illustrates the types and range of valves we manufacture and market; many of which are manufactured by us and some, with in-house QC tests and certification by our professional engineers.

Our products are supplied locally and overseas worldwide for new and upgrading projects in chemical plants, petrochemical & thermal plants, oil-field and refinery applications-both onshore and offshore.

We are capable of providing timely technical solutions to meet customers specific applications and needs and will promptly attend to any urgent enquiry.

With our long-standing experience & in-depth engineering knowledge in valve manufacturing we hope to satisfy your service & technical expectations in terms of quality, price, delivery and after sales service.

We always regard and value our customers as enduring partners in business and technological advancement.

With best wishes and kindness regards,
Yours sincerely,

Jonathan Koo

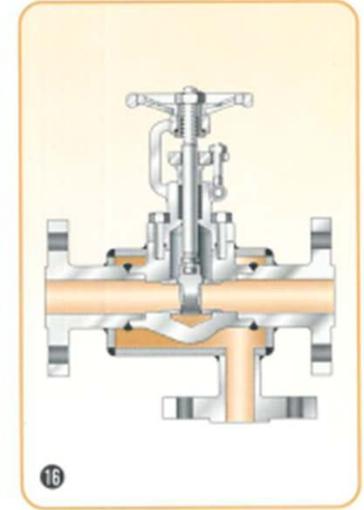
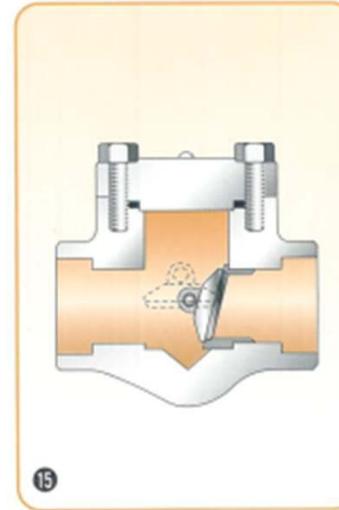
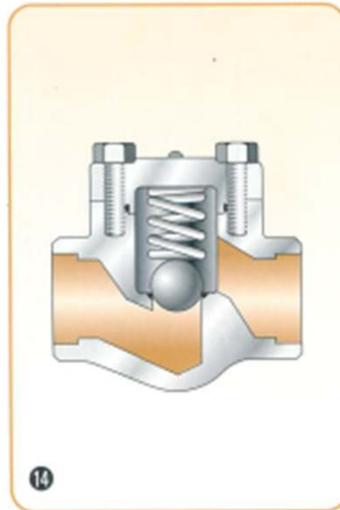
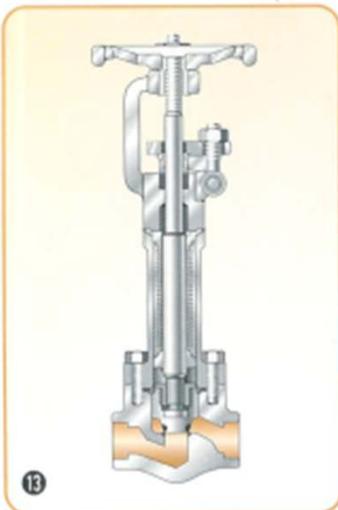
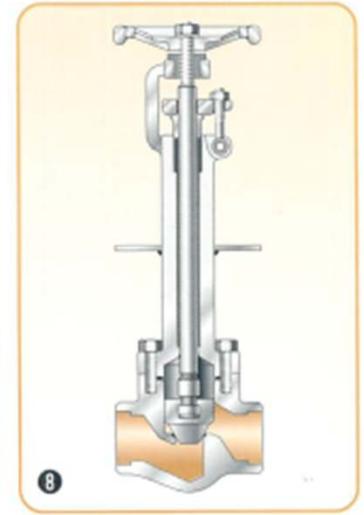
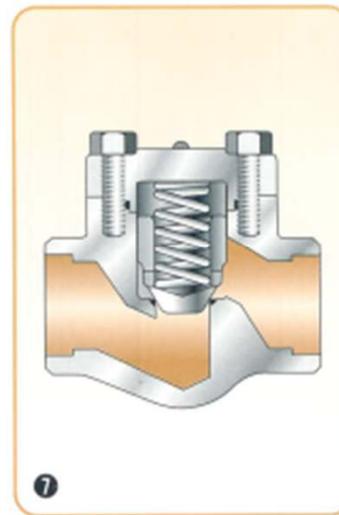
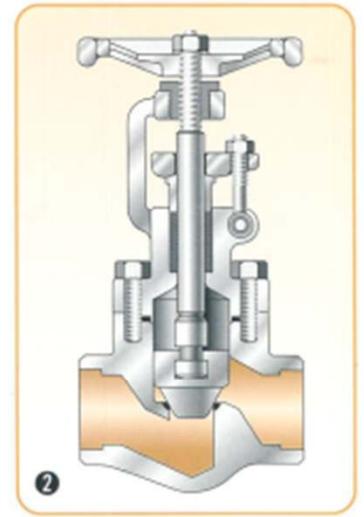
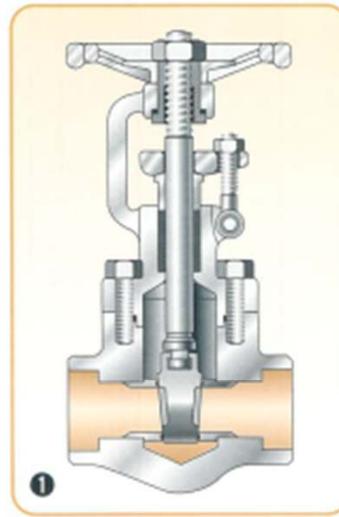
Ph. D. / President

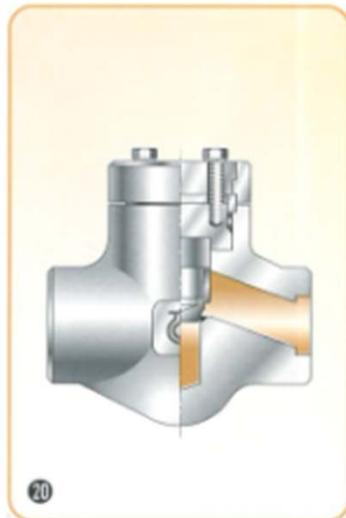
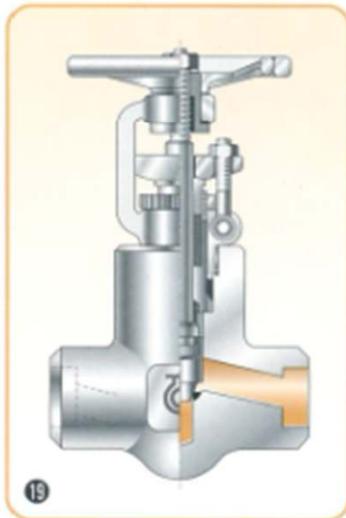
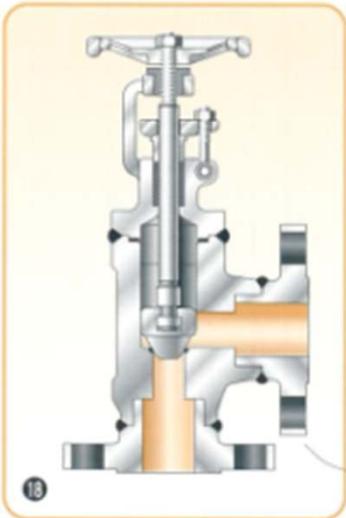
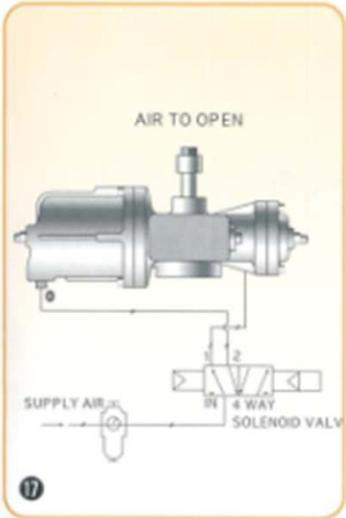
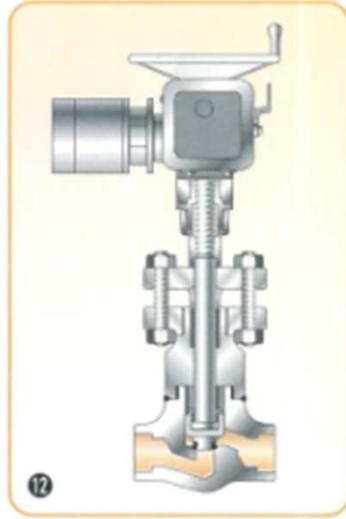
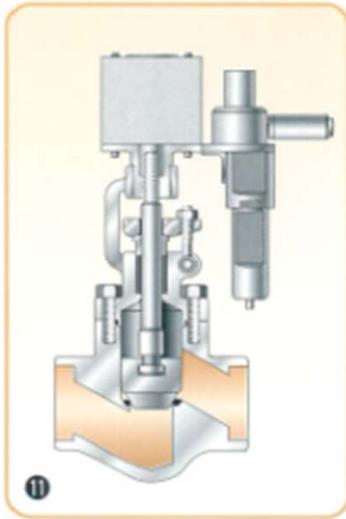
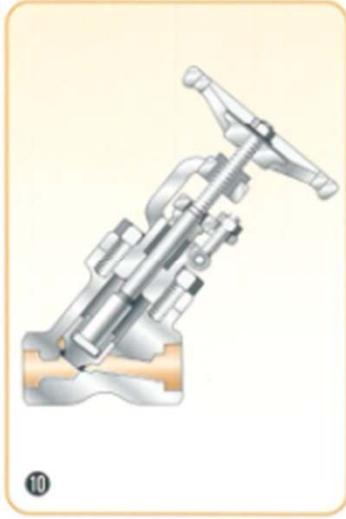
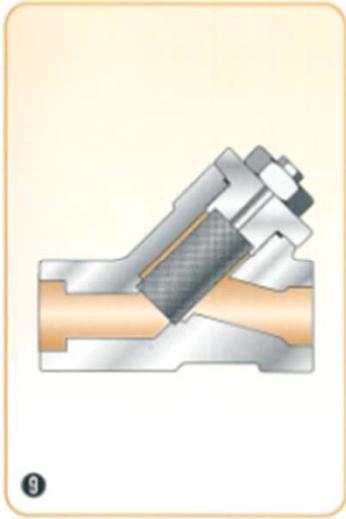
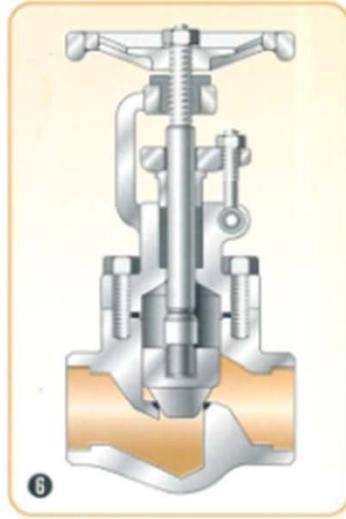
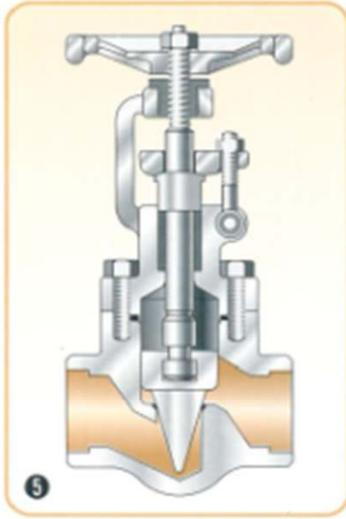
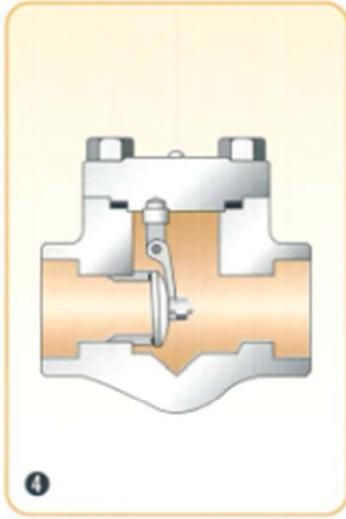
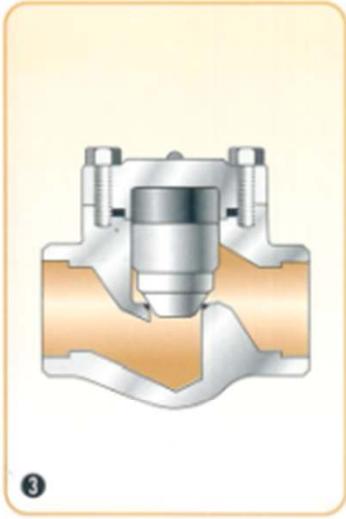


PRODUCT VALVE LIST

**DESCRIBED VALVES ARE CURRENTLY
PRODUCED BY DoTEC CO., LTD**

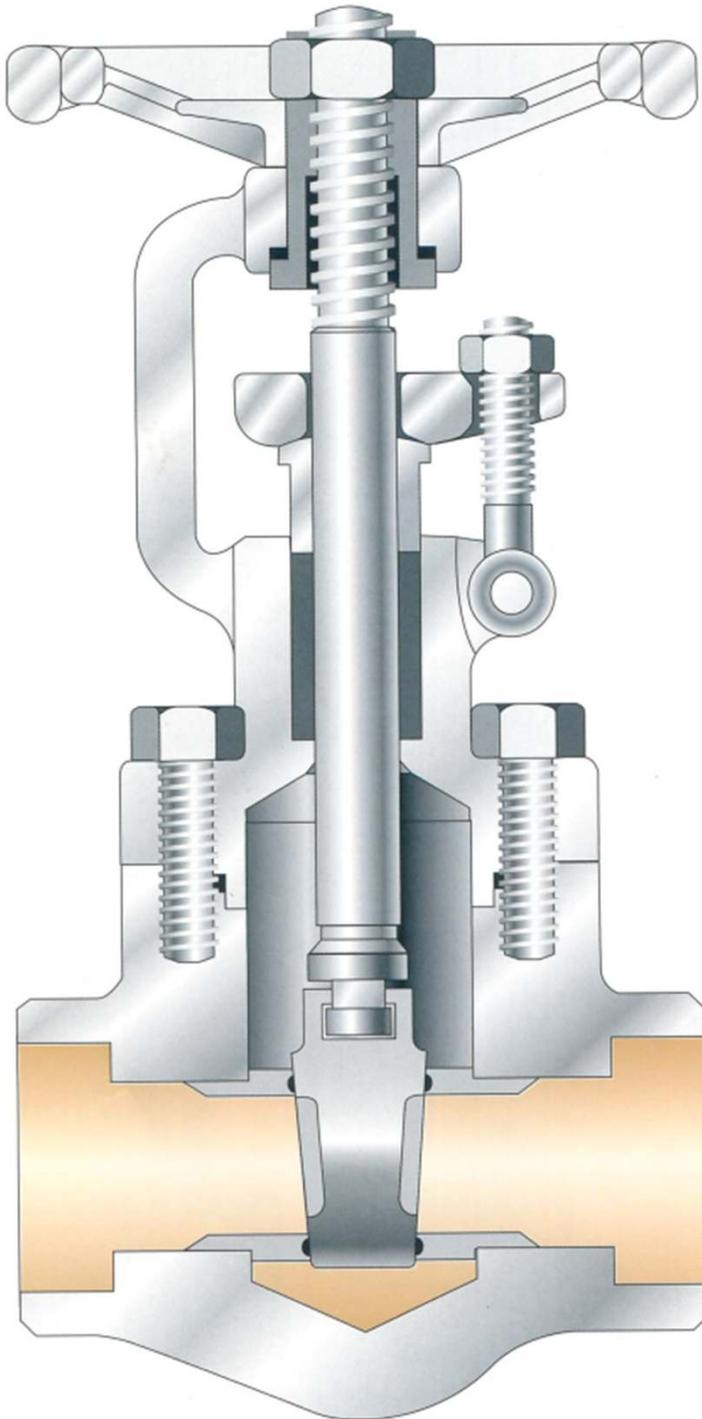
1. GATE VALVE
2. GLOBE VALVE
3. LIFT CHECK VALVE
4. SWING CHECK VALVE
5. NEEDLE VALVE
6. GLOBE CHECK VALVE
7. PISTON CHECK VALVE (W/SPRING)
8. CRYOGENIC GLOBE VALVE
9. Y-STRAINER
10. Y-GLOBE VALVE
11. PNEUMATICALLY OPERATED GLOBE VALVE
12. MOTOR OPERATED VALVE (M.O.V)/GLOBE
13. BELLOW GLOBE VALVE
14. BALL CHECK VALVE (W/SPRING)
15. TILTING CHECK VALVE
16. HEATING JACKET VALVE
17. PNEUMATICALLY OPERATED
18. ANGLE VALVE
19. PRESSURE SEAL BONNET (GLOBE)
20. CHECK VALVE PRESSURE SEAL BONNET







GATE VALVES



DESCRIPTION

Serves as efficient stop valves with flow in either direction.

They are commonly used where a minimum of pressure drop is important because they offer practically no resistance to flow when fully open.

Throttling is not conducive to accurate and consistent flow control. Also the valves may be damaged by the high velocity across the seats. They function best fully open or fully closed.

CLASS

API 800, 1500

ANSI 150, 300, 600, 900, 1500, 2500

SIZE

3/8", 1/2", 3/4", 1", 1 1/4", 1 1/2", 2"

MATERIAL

ASTM A105, A182-F5, A182-F9, A182-F11,

A182-F22, A182-F304, A182-F316, A182-F304L,

A182-F316L, A350-LF2

END CONNECTION

SOCKET WELDING, THREADED,

BUTT WELDING, FLANGED

FEATURE

BOLTED BONNET OR WELDED BONNET

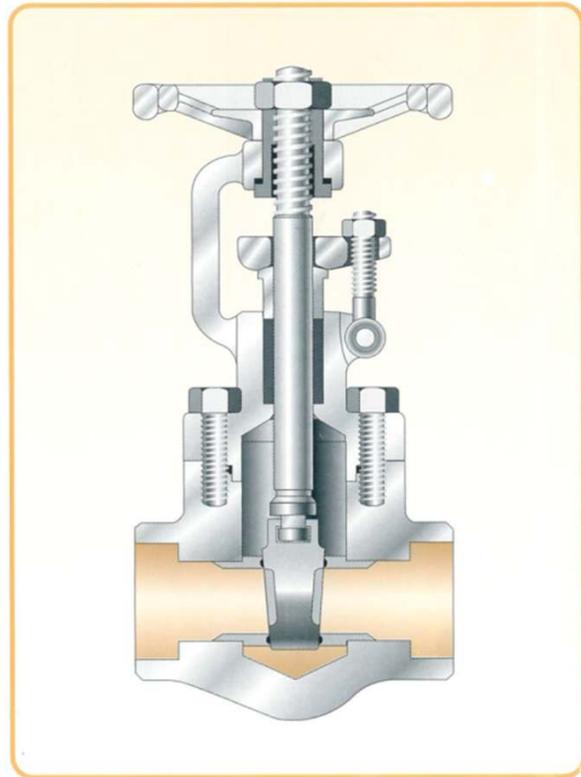
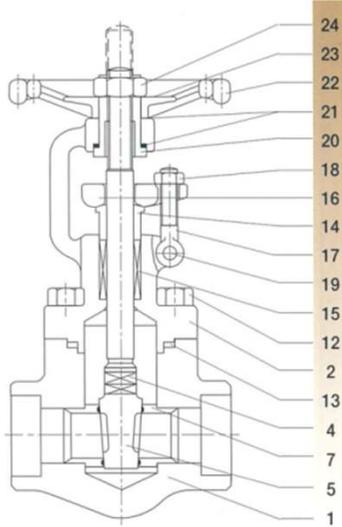
OUTSIDE SCREW & YOKE

SOLID WEDGE DISC

RENEWABLE SEAT



**FORGED STEEL GATE VALVES
BOLTED BONNET OS & Y**



PARTS NOMENCLATURE

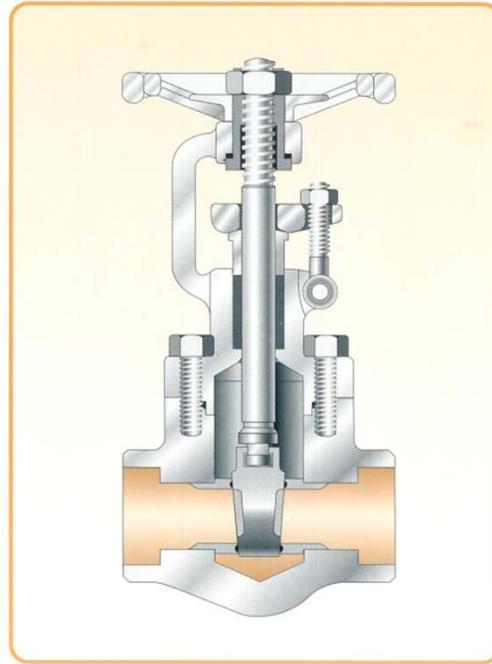
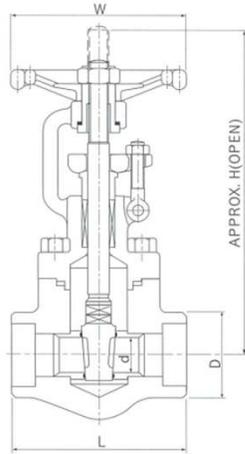
Part No.	Part Name	Q'ty	ASTM Specifications (Specs.-Grades/Types)									
			A105	A182				A182				
				F304	F304L	F316	F316L	F1	F5	F9	F11	F22
1	Body	1	A105	A182-F304	A182-F304L	A182-F316	A182-F316L	A182-F1	A182-F5	A182-F9	A182-F11	A182-F22
2	Bonnet	1	A105	A182-F304	A182-F304L	A182-F316	A182-F316L	A182-F1	A182-F5	A182-F9	A182-F11	A182-F22
4	Stem	1	A276-410	A276-304	A276-316		A276-410					
5	Disc	1	A217-CA15	A351-CF8	A351-CF8M		A217-CA15					
7	Seat Ring	2	A276-410	A276-304	A276-316		A276-410					
12	Bonnet Bolt	4	A193-B7	A193-B8		A193-B7						
13	Gasket	1	SS304+ Graphite	SS304+Graphite		SS304+Graphite						
14	Gland	1	A276-410	A276-304	A276-316		A276-410					
15	Gland Packing	1set	Graphite W/ Monel® Wire	Graphite		Graphite W/Monel® Wire						
16	Gland Flange	1	A105	A182-F304		A105						
17	Gland Bolt	2			A276-304							
18	Gland Bolt Nut	2	A194-2H	A194-8		A194-2H						
19	Gland Bolt Pin	2			A276-304							
20	Sleeve	1			A276-410							
21	Sleeve Washer	2			A276-410							
22	Handwheel	1			A197							
23	Nameplate	1			Aluminum							
24	Handwheel Nut	1			A108-1020							



GATE VALVES

CLASS 600 & 800

FORGED STEEL GATE VALVES
BOLTED BONNET OS & Y



DIMENSIONS & WEIGHTS

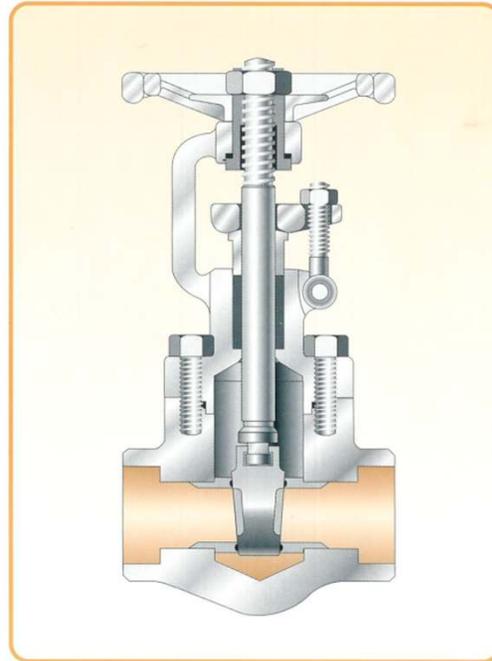
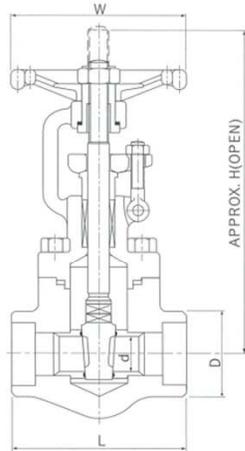
CLASS	Port	Valve Size		Center to Top, Open		End to End		Handwheel Diameter		End Hub Diameter		Port Diameter		Approx. Weight	
				H		L		W		D		d			
		DN	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
600 & 800	Reduced	10	3/8	139	5.47	73	2.87	75	2.95	32	1.26	8	0.31	1.5	3.3
		15	1/2	139	5.47	73	2.87	75	2.95	32	1.26	10	0.39	1.4	3.1
		20	3/4	151	5.95	87	3.43	95	3.74	38	1.50	13	0.51	1.9	4.2
		25	1	181	7.13	96	3.77	95	3.74	46	1.81	19	0.75	2.7	6.0
		32	1 1/4	213	8.39	123	4.84	135	5.32	55	2.17	25	0.98	4.8	10.6
		40	1 1/2	226	8.90	142	5.59	135	5.32	62	2.44	30	1.18	5.4	11.9
		50	2	260	10.24	163	6.42	160	6.30	76	2.99	38	1.50	8.9	19.6
	Full	10	3/8	139	5.47	73	2.87	75	2.95	32	1.26	10	0.39	1.4	3.1
		15	1/2	151	5.95	87	3.43	95	3.74	38	1.50	13	0.51	1.9	4.2
		20	3/4	181	7.13	96	3.77	95	3.74	46	1.81	19	0.75	2.7	6.0
		25	1	213	8.37	123	4.84	135	5.32	55	2.17	25	0.98	4.8	10.6
		32	1 1/4	226	8.90	142	5.59	135	5.32	62	2.44	30	1.18	5.4	11.9
		40	1 1/2	260	10.24	163	6.42	160	6.30	76	2.99	38	1.50	8.9	19.6
		50	2	388	15.3	172	6.77	180	7.08	80	3.14	45	1.77	25.4	56.0



GATE VALVES

CLASS 900 & 1500

FORGED STEEL GATE VALVES
BOLTED BONNET OS & Y



DIMENSIONS & WEIGHTS

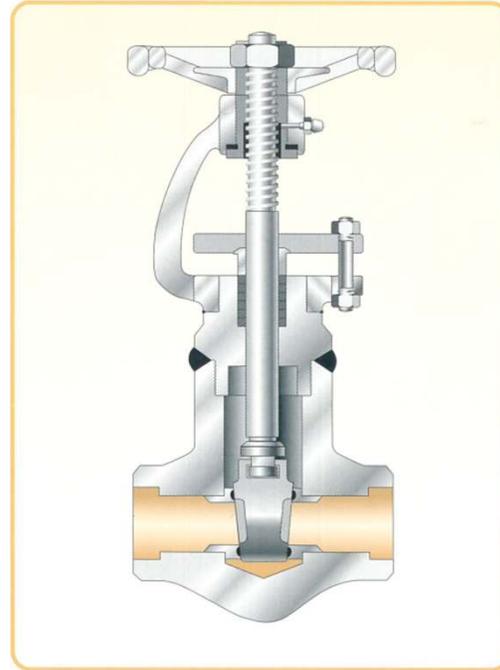
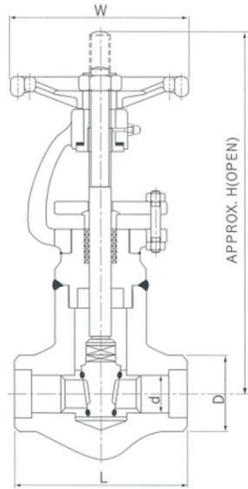
CLASS	Port	Valve Size		Center to Top, Open		End to End		Handwheel Diameter		End Hub Diameter		Port Diameter		Approx. Weight	
				H		L		W		D		d			
		DN	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
900 & 1500	Reduced	10	3/8	151	5.51	87	3.43	95	3.74	38	1.50	8	0.31	1.9	4.2
		15	1/2	151	5.51	87	3.43	95	3.74	38	1.50	10	0.51	1.9	4.2
		20	3/4	181	7.13	96	3.77	95	3.74	46	1.81	13	0.51	2.3	5.1
		25	1	213	8.39	123	4.84	135	5.32	55	2.17	19	0.75	4.8	10.6
		32	1 1/4	226	8.90	142	5.59	135	5.32	62	2.44	25	1.00	5.4	11.9
		40	1 1/2	260	10.24	163	6.42	160	6.30	76	2.99	30	1.19	8.9	19.6
		50	2	365	18.0	172	6.77	180	7.08	80	3.14	40	1.57	20.4	44.9
	Full	10	3/8	181	7.28	98	3.86	95	3.74	46	1.81	13	0.51	2.3	5.1
		15	1/2	181	7.13	96	3.77	95	3.74	46	1.81	13	0.51	2.3	5.1
		20	3/4	213	8.27	123	4.84	135	5.32	55	2.17	19	0.75	4.8	10.6
		25	1	226	9.41	142	5.59	135	5.32	62	2.44	25	1.00	5.4	11.9
		32	1 1/4	260	10.98	163	6.42	160	6.30	76	2.99	30	1.19	8.9	19.6
		40	1 1/2	284	12.6	172	6.77	180	7.08	80	3.14	40	1.44	15.2	34.5
		50	2	388	15.3	200	7.87	230	9.06	84	3.31	45	1.77	25.4	56.0



GATE VALVES

CLASS 2500

FORGED STEEL GATE VALVES
WELDED BONNET OS & Y

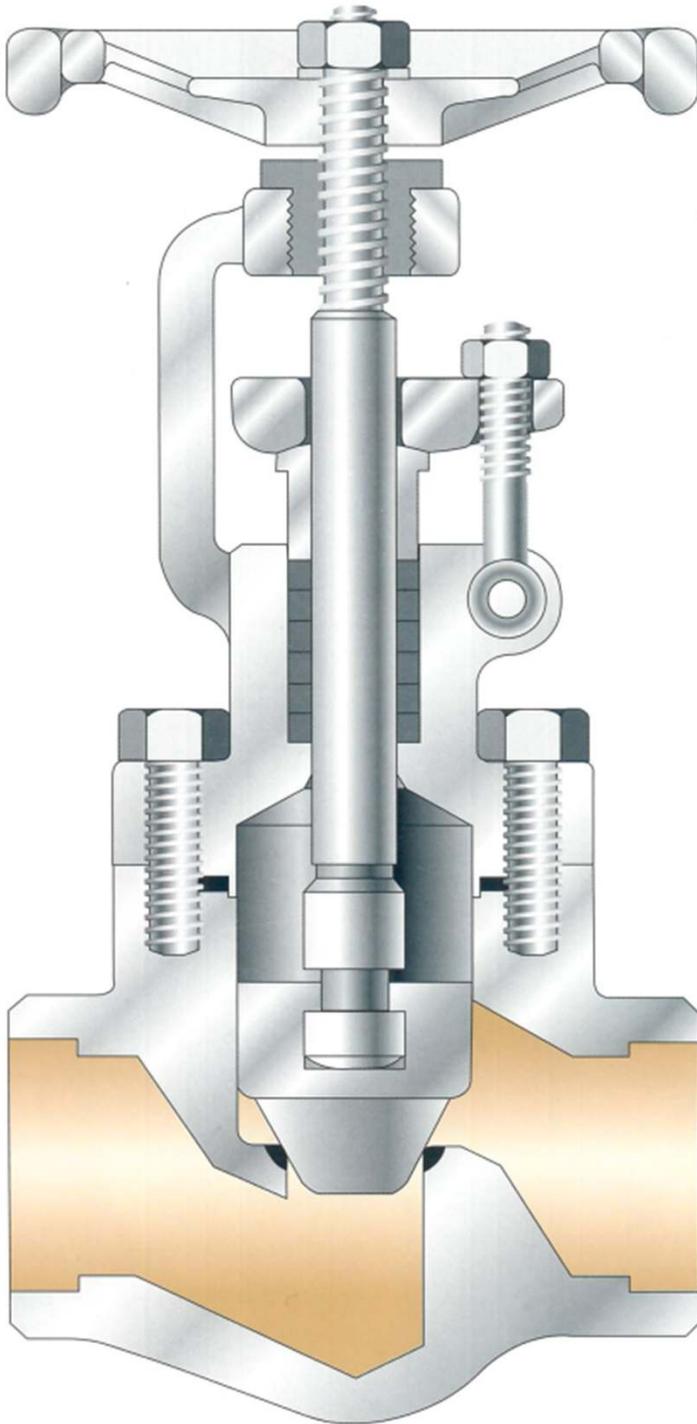


DIMENSIONS & WEIGHTS

CLASS	Port	Valve Size		Center to Top, Open		End to End		Handwheel Diameter		End Hub Diameter		Port Diameter		Approx. Weight	
				H		L		W		D		d			
		DN	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
2500	Full	15	1/2	181	7.13	96	3.77	95	3.74	46	1.81	12	0.47	2.9	6.39
		20	3/4	213	8.39	123	4.84	135	5.31	55	2.16	16	0.62	4.8	10.5
		25	1	226	8.90	143	5.62	135	5.31	62	2.44	21	0.82	5.4	11.9
		32	1 1/4	260	10.24	163	6.41	160	6.29	96	2.99	26	1.02	8.9	19.6
		40	1 1/2	388	15.3	172	6.77	180	7.08	80	3.14	28	1.10	26.8	59.1
		50	2	499	19.6	220	8.66	250	9.84	96	3.77	34	1.33	33.4	73.6



GLOBE VALVES



DESCRIPTION

are ideal for throttling service. Their flow characteristics permit accurate and repeatable flow control. However, caution must be exercised to avoid extremely close throttling when pressure drop exceeds 20%. This creates excessive noise, vibration, and possibly damage to valves and piping. When these conditions are anticipated, consult DoTEC for recommendation.

CLASS

API 800, 1500

ANSI 150, 300, 600, 900, 2500, 4500

SIZE

3/8", 1/2", 3/4", 1", 1 1/4", 1 1/2", 2"

MATERIAL

ASTM A105, A182-F5, A182-F9, A182-F11,

A182-F22, A182-F304, A182-F316, A182-F304L,

A182-F316L, A350-LF2

END CONNECTION

SOCKET WELDING, THREADED,

BUTT WELDING, FLANGED

FEATURE

BOLTED BONNET OR WELDED BONNET

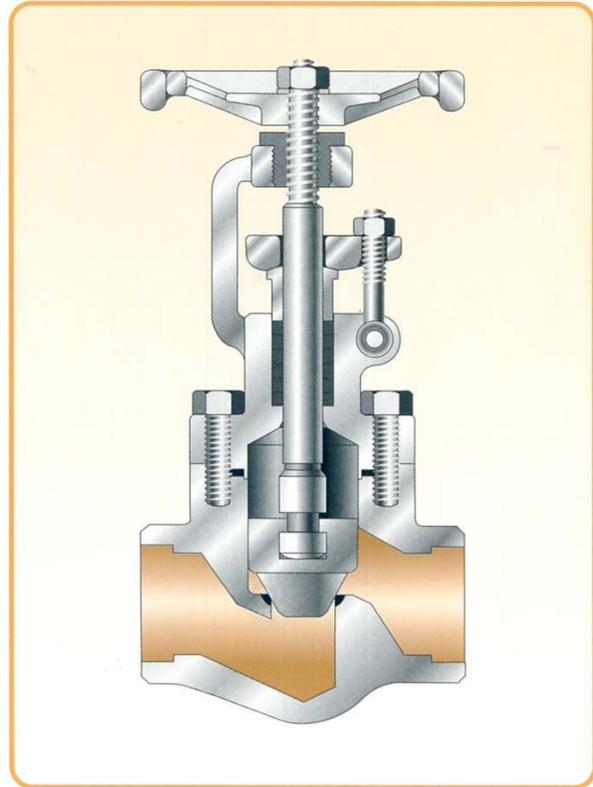
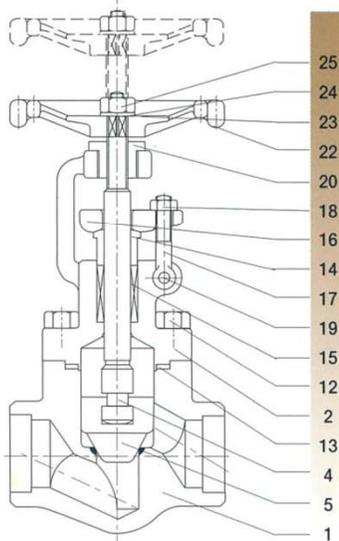
OUTSIDE SCREW & YOKE

PLUG DISC

INTEGRAL SEAT



**FORGED STEEL GLOBE VALVES
BOLTED BONNET OS & Y**



PARTS NOMENCLATURE

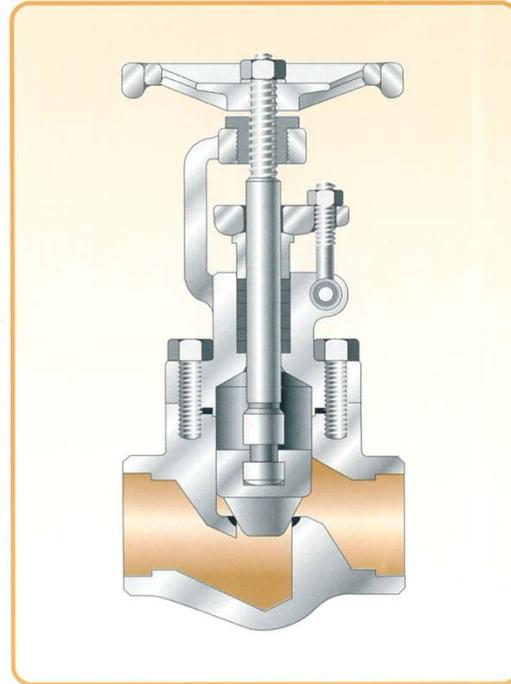
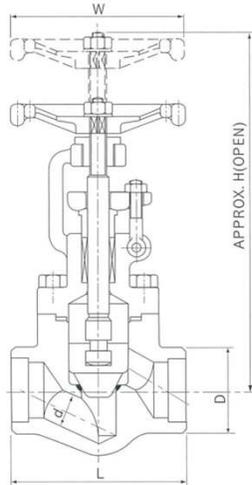
Part No.	Part Name	Q'ty	ASTM Specifications (Specs.-Grades/Types)									
			A105	A182				A182				
				F304	F304L	F316	F316L	F1	F5	F9	F11	F22
1	Body	1	A105	A182-F304	A182-F304L	A182-F316	A182-F316L	A182-F1	A182-F5	A182-F9	A182-F11	A182-F22
2	Bonnet	1	A105	A182-F304	A182-F304L	A182-F316	A182-F316L	A182-F1	A182-F5	A182-F9	A182-F11	A182-F22
4	Stem	1	A276-410	A276-304		A276-316					A276-410	
5	Disc	1	A217-CA15	A351-CF8		A351-CF8M					A217-CA15	
7	Seat Ring	2	A276-410	A276-304		A276-316					A276-410	
12	Bonnet Bolt	4	A193-B7			A193-B8					A193-B7	
13	Gasket	1	SS304+ Graphite			SS304+Graphite					SS304+Graphite	
14	Gland	1	A276-410	A276-304		A276-316			A276-410			
15	Gland Packing	1set	Graphite W/Monel® Wire			Graphite			Graphite W/Monel® Wire			
16	Gland Flange	1	A105			A182-F304				A105		
17	Gland Bolt	2					A276-304					
18	Gland Bolt Nut	2	A194-2H			A194-8					A194-2H	
19	Gland Bolt Pin	2					A276-304					
20	Sleeve	1					A276-410					
22	Handwheel	1					A197					
23	Nameplate	1					Aluminum					
24	Handwheel Washor	1					A108-1020					
25	Handwheel Net	1					A194-2H					



GLOBE VALVES

CLASS 600 & 800

FORGED STEEL GLOBE VALVES
BOLTED BONNET OS & Y



DIMENSIONS & WEIGHTS

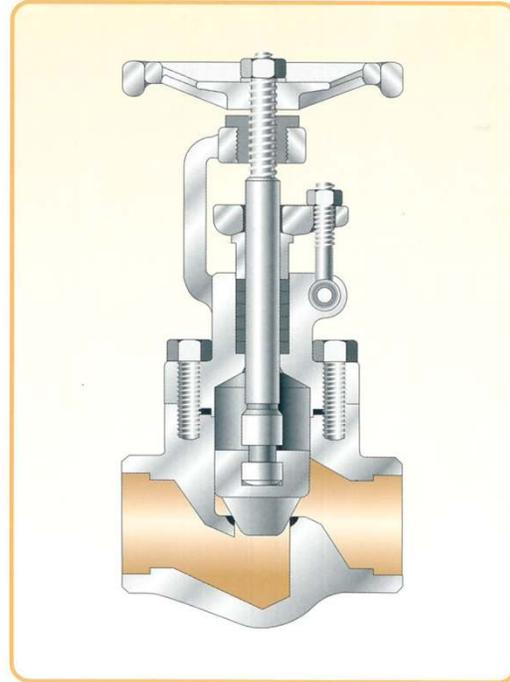
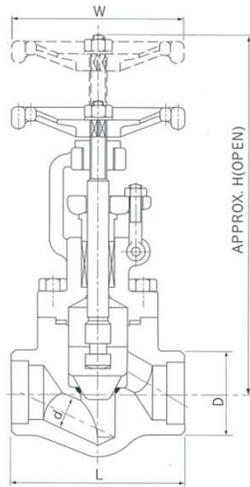
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				H		L		W		D		d			
		DN	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
600 & 800	Reduced	10	3/8	134	5.28	73	2.87	75	2.95	32	1.26	8	0.31	1.5	3.3
		15	1/2	134	5.28	73	2.87	75	2.95	32	1.26	10	0.39	1.4	3.1
		20	3/4	148	5.82	87	3.42	95	3.74	38	1.50	13	0.51	1.9	4.2
		25	1	180	7.09	96	3.77	95	3.74	46	1.81	19	0.75	2.7	6.0
		32	1 1/4	210	8.27	123	4.84	135	5.31	55	2.17	25	0.98	4.9	10.8
		40	1 1/2	223	8.78	143	5.63	135	5.31	62	2.44	30	1.43	5.8	12.8
		50	2	255	10.04	163	6.41	160	6.30	76	2.99	37	1.46	9.3	20.5
	Full	10	3/8	134	5.28	73	2.87	75	2.95	32	1.26	10	0.39	1.4	3.1
		15	1/2	148	5.82	87	3.42	95	3.74	38	1.50	12	0.48	1.9	4.2
		20	3/4	180	7.09	96	3.77	95	3.74	46	1.81	18	0.70	2.7	6.0
		25	1	210	8.29	123	4.84	135	5.31	55	2.17	22	0.87	4.9	10.8
		32	1 1/4	223	8.78	143	5.63	135	5.31	62	2.44	28	1.10	5.8	12.8
		40	1 1/2	255	10.04	163	6.41	160	6.30	76	2.99	33	1.30	9.3	20.5
		50	2	382	15.04	172	6.77	180	7.08	80	3.14	45	1.77	26.2	57.8



GLOBE VALVES

CLASS 900 & 1500

FORGED STEEL GLOBE VALVES
BOLTED BONNET OS & Y



DIMENSIONS & WEIGHTS

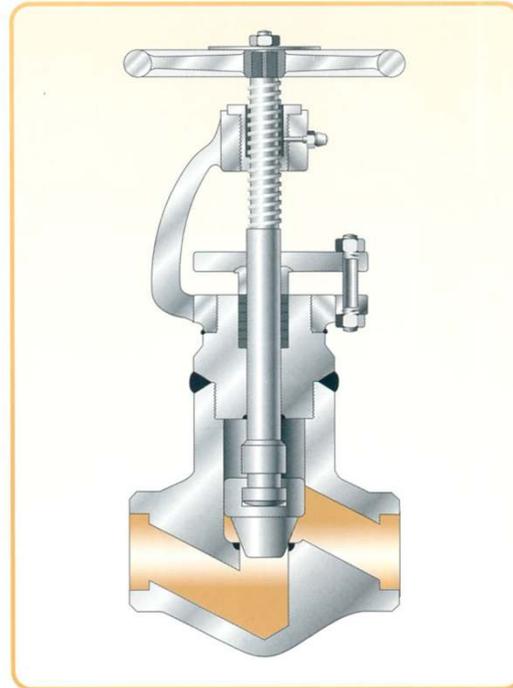
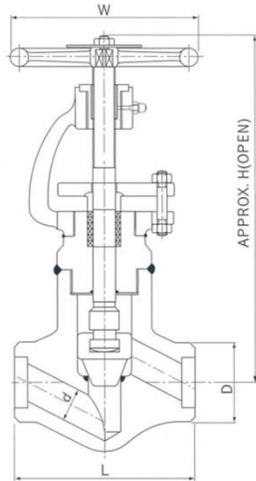
CLASS	Port	Valve Size		Center to Top, Open		End to End		Handwheel Diameter		End Hub Diameter		Port Diameter		Approx. Weight	
				H		L		W		D		d			
		DN	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
900 & 1500	Reduced	10	3/8	148	5.83	87	3.42	95	3.74	38	1.49	8	0.31	1.9	4.2
		15	1/2	148	5.83	87	3.42	95	3.74	38	1.49	10	0.39	1.9	4.2
		20	3/4	180	7.09	96	3.77	95	3.74	46	1.81	13	0.51	2.7	6
		25	1	210	8.27	123	4.84	135	5.31	55	2.16	19	0.68	4.9	10.8
		32	1 1/4	223	8.78	143	5.62	135	5.31	62	2.44	25	0.94	5.8	12.8
		40	1 1/2	255	10.04	163	6.41	160	6.29	76	2.99	30	1.22	9.3	20.5
		50	2	364	13.11	172	6.77	180	7.08	80	3.31	38	1.46	20.4	44.9
	Full	10	3/8	180	7.09	96	3.77	95	3.74	46	1.81	10	0.39	2.7	6
		15	1/2	180	7.09	96	3.77	95	3.74	46	1.81	13	0.51	2.7	6
		20	3/4	210	8.27	123	4.84	135	5.31	55	2.16	19	0.68	4.9	10.8
		25	1	223	8.78	143	5.62	135	5.31	62	2.44	25	0.94	5.8	12.8
		32	1 1/4	255	10.04	163	6.41	160	6.29	76	2.99	30	1.22	9.3	20.5
		40	1 1/2	364	14.3	172	6.77	180	7.08	80	3.14	38	1.48	20.5	44.9
		50	2	388	15.3	172	6.77	180	7.08	80	3.14	45	1.77	25.8	58.9



GLOBE VALVES

CLASS 2500 & 4500

FORGED STEEL GLOBE VALVES
WELDED BONNET OS & Y



DIMENSIONS & WEIGHTS

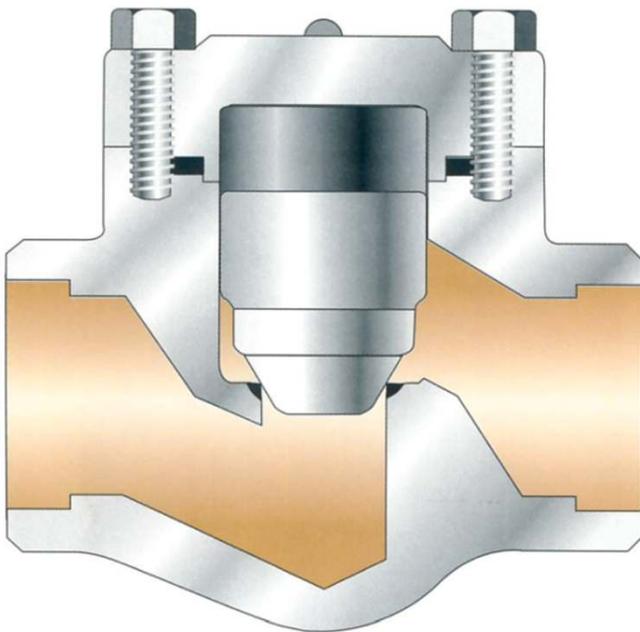
CLASS	Port	Valve Size		Center to Top, Open		End to End		Handwheel Diameter		End Hub Diameter		Port Diameter		Approx. Weight	
				H		L		W		D		d			
		DN	in	mm	in	mm	in	mm	in	mm	in	mm	in	kg	lb
2500	Full	15	1/2	180	7.08	96	3.77	95	3.7	46	1.81	12	0.47	2.9	6.39
		20	3/4	210	8.26	123	4.84	135	5.31	55	2.16	16	0.62	4.9	10.8
		25	1	223	8.77	143	5.62	135	5.31	62	2.44	21	0.82	5.8	12.7
		32	1 1/4	255	10.0	163	6.41	160	6.29	76	2.99	26	1.02	9.3	20.5
		40	1 1/2	382	15.0	172	6.77	180	7.08	80	3.14	28	1.10	26.4	58.2
		50	2	458	18.2	220	8.66	250	9.84	96	3.77	34	1.33	33.5	73.9
4500	Full	15	1/2	324	12.8	163	6.41	160	6.30	76	2.99	8	0.31	9.8	21.4
		20	3/4	324	12.8	163	6.41	160	6.30	76	2.99	12	0.47	9.7	21.3
		25	1	324	12.8	163	6.41	160	6.30	76	2.99	14	0.55	9.6	21.2
		32	1 1/4	382	15.0	172	6.77	180	7.08	80	3.14	18	0.71	26.4	58.4
		40	1 1/2	382	15.0	172	6.77	180	7.08	80	3.14	22	0.87	26.4	58.2
		50	2	456	18.3	220	8.66	250	9.84	98	3.85	25	0.98	33.0	72.8



LIFT CHECK VALVES

DESCRIPTION

Have an advantage over most other types of check valves in that they need only a relatively short lift to obtain full valve opening. The lift check valve uses a free-moving closure element that is placed above the seat. It prevents backflow and maintains pressure. The lift check valve is recommended to install in horizontal piping lines because the disc is pushed up by the flow until the flow reverses when gravity and down stream pressure close the closure element against the seat



LIFT CHECK

CLASS

API 800, 1500

ANSI 150, 300, 600, 900, 1500, 2500, 4500

SIZE

3/8", 1/2", 3/4", 1", 1 1/4", 1 1/2", 2"

MATERIAL

ASTM A105, A182-F5, A182-F9, A182-F11,

A182-F22, A182-F304, A182-F316, A182-F304L,

A182-F316L, A350-LF2

END CONNECTION

SOCKET WELDING, THREADED,

BUTT WELDING, FLANGED

FEATURE

BOLTED BONNET OR WELDED COVER

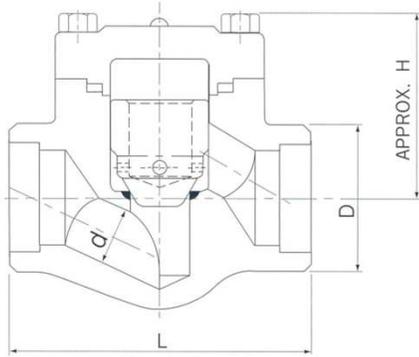
INTEGRAL SEAT



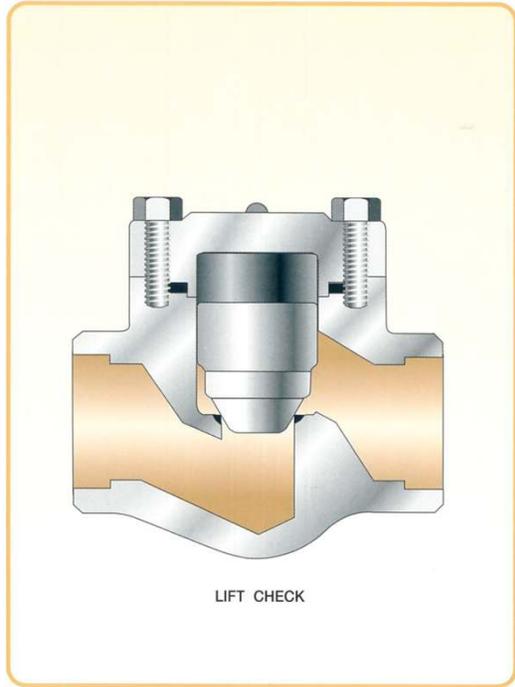
LIFT CHECK VALVES

CLASS 800 & 1500

FORGED STEEL LIFT CHECK VALVES
BOLTED COVER



LIFT CHECK



LIFT CHECK

DIMENSIONS & WEIGHTS

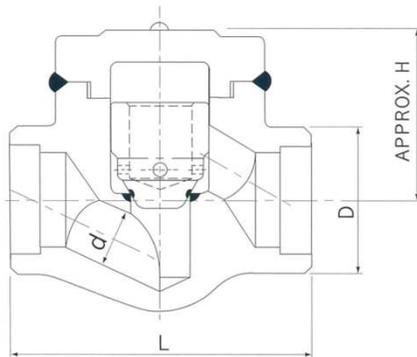
CLASS	Port	Valve Size		Center to Top, Open		End to End		End Hub Diameter		Port Diameter		Approx. Weight	
				H		L		D		d			
		DN	in	mm	in	mm	in	mm	in	mm	in	kg	lb
800	Reduced	10	3/8	51	2.00	73	2.87	32	1.26	8	0.31	1.3	2.9
		15	1/2	51	2.00	73	2.87	32	1.26	10	0.39	1.2	2.6
		20	3/4	55	2.17	87	3.42	38	1.50	13	0.51	1.3	2.9
		25	1	65	2.56	96	3.77	46	1.81	19	0.75	2.1	4.6
		32	1 1/4	76	2.99	123	4.84	55	2.17	25	0.98	4.0	8.8
		40	1 1/2	84	3.31	143	5.62	62	2.44	30	1.18	4.7	10.4
	Full	50	2	101	3.98	163	6.41	76	2.99	37	1.46	7.1	15.6
		10	3/8	51	2.00	73	2.87	32	1.26	10	0.39	1.3	2.9
		15	1/2	55	2.17	87	3.42	38	1.50	13	0.51	1.3	2.9
		20	3/4	65	2.56	96	3.77	46	1.81	19	0.75	2.1	4.6
		25	1	76	2.99	123	4.84	55	2.17	25	0.98	4.0	8.8
		32	1 1/4	84	3.31	143	5.62	62	2.44	30	1.18	4.7	10.4
		40	1 1/2	101	3.98	163	6.41	76	2.99	37	1.46	7.1	15.6
		50	2	116	4.57	172	6.77	80	3.14	45	1.77	10.7	23.5
1500	Reduced	10	3/8	55	2.17	87	3.42	38	1.50	8	0.31	1.2	2.6
		15	1/2	55	2.17	87	3.42	38	1.50	10	0.39	1.2	2.6
		20	3/4	65	2.56	96	3.77	46	1.81	13	0.51	2.1	4.6
		25	1	76	2.99	123	4.84	55	2.17	19	0.75	4.0	8.8
		32	1 1/4	84	3.31	143	5.62	62	2.44	25	0.98	4.7	10.4
		40	1 1/2	101	3.98	163	6.41	76	2.99	30	1.18	7.1	15.6
	Full	50	2	116	4.57	172	6.77	80	3.14	37	1.46	10.5	23.1
		10	3/8	65	2.56	96	3.77	46	1.81	10	0.39	3.1	4.6
		15	1/2	65	2.56	96	3.77	46	1.81	13	0.51	2.1	4.6
		20	3/4	76	2.99	123	4.84	55	2.17	19	0.75	4.0	8.8
		25	1	84	3.31	143	5.62	62	2.44	25	0.98	4.7	10.4
		32	1 1/4	101	3.98	163	6.41	76	2.99	30	1.18	7.1	15.6
		40	1 1/2	116	4.57	172	6.77	80	3.14	37	1.46	10.5	23.1
		50	2	136	5.35	220	8.66	96	3.77	44	1.73	12.5	27.5



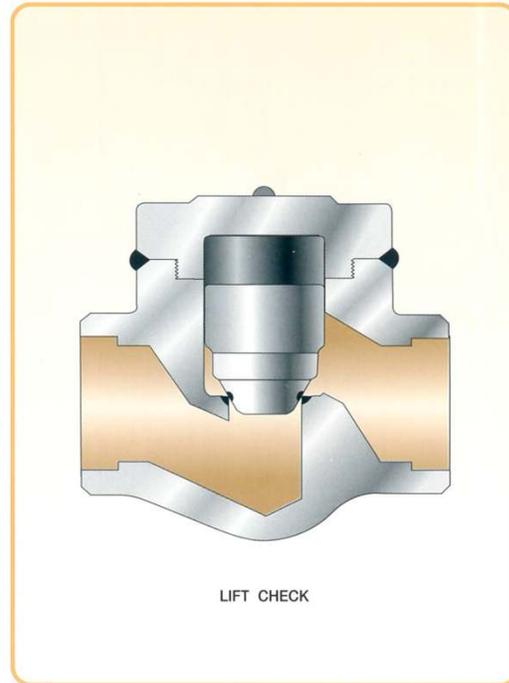
LIFT CHECK VALVES

CLASS 2500 & 4500

FORGED STEEL LIFT CHECK VALVES
WELDED COVER



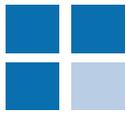
LIFT CHECK



LIFT CHECK

DIMENSIONS & WEIGHTS

CLASS	Port	Valve Size		Center to Top, Open		End to End		End Hub Diameter		Port Diameter		Approx. Weight	
				H		L		D		d			
		DN	in	mm	in	mm	in	mm	in	mm	in	kg	lb
2500	Full	15	1/2	65	2.56	96	3.77	46	1.81	12	0.47	2.1	4.6
		20	3/4	76	2.99	123	4.84	55	2.16	16	0.62	4.0	8.8
		25	1	84	3.31	143	5.62	62	2.44	21	0.82	4.7	10.4
		32	1 1/4	101	3.98	163	6.41	76	2.99	26	1.02	7.1	15.6
		40	1 1/2	116	4.57	172	6.77	80	3.14	28	1.10	10.7	23.5
		50	2	136	5.35	220	8.66	96	3.77	34	1.33	12.5	27.5
4500	Full	15	1/2	101	3.98	163	6.41	76	2.99	8	0.31	7.1	15.6
		20	3/4	101	3.98	163	6.41	76	2.99	12	0.47	7.1	15.6
		25	1	101	3.98	163	6.41	76	2.99	14	0.55	7.1	15.6
		32	1 1/4	116	4.57	172	6.77	80	3.14	18	0.71	10.7	23.5
		40	1 1/2	116	4.57	172	6.77	80	3.14	22	0.87	10.7	23.5
		50	2	136	5.35	220	8.66	98	3.85	25	0.98	12.5	27.5



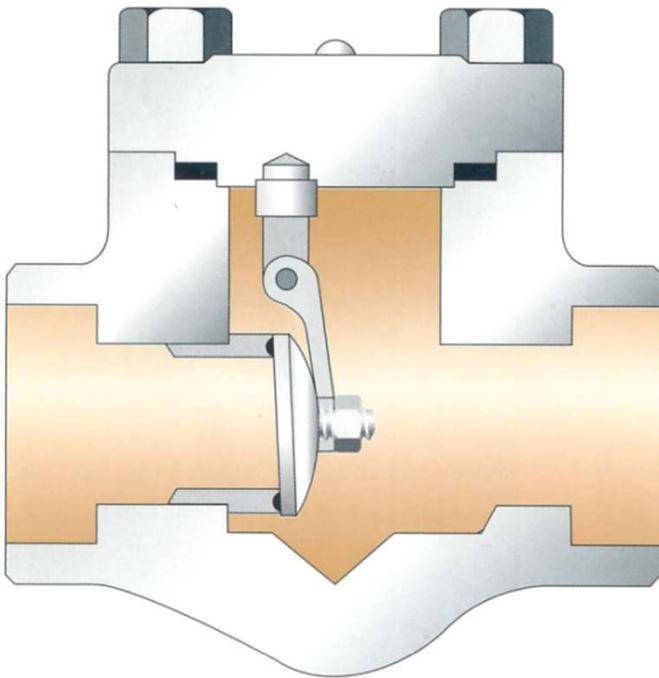
SWING CHECK VALVES

DESCRIPTION

Prevent reversal of flow through pipe lines.

The swing check valve uses a hinged door to open during flow and to close against a pressure reversal.

Most DoTEC swing check valves can be installed in horizontal or vertical upward flow piping. They offer low resistance to flow and are particularly suited to low velocity service.



SWING CHECK

CLASS

API 800, 1500

ANSI 150, 300, 600, 900, 1500

SIZE

3/8", 1/2", 3/4", 1", 1 1/4", 1 1/2", 2"

MATERIAL

ASTM A105, A182-F5, A182-F9, A182-F11,

A182-F22, A182-F304, A182-F316, A182-F304L,

A182-F316L, A350-LF2

END CONNECTION

SOCKET WELDING, THREADED,

BUTT WELDING, FLANGED

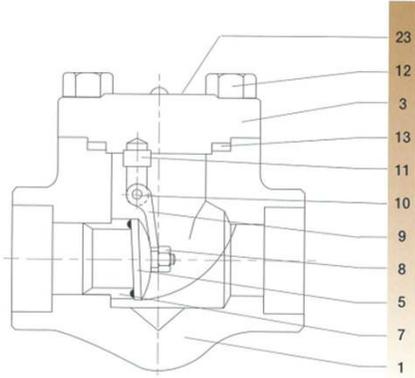
FEATURE

BOLTED COVER OR WELDED COVER

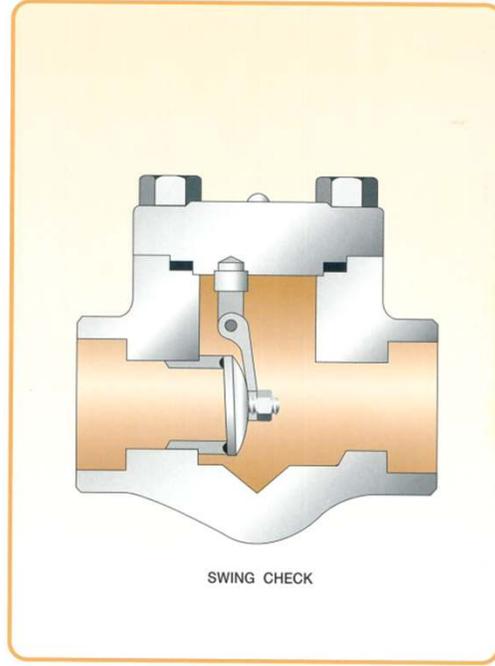
RENEWABLE SEAT



**FORGED STEEL SWING CHECK VALVES
BOLTED COVER**



SWING CHECK



SWING CHECK

PARTS NOMENCLATURE

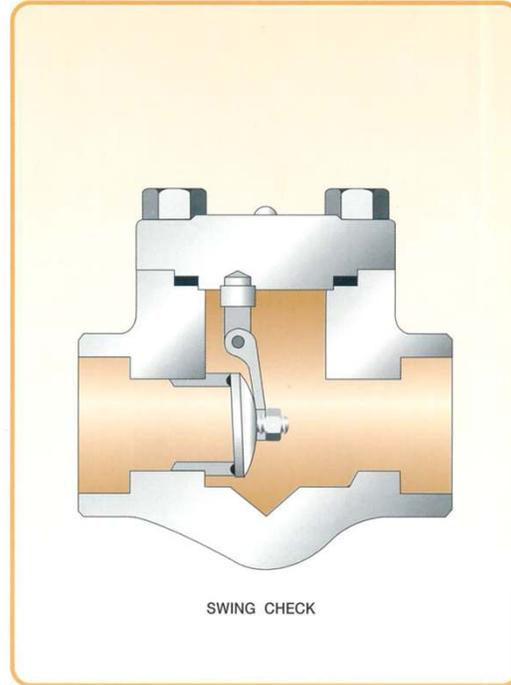
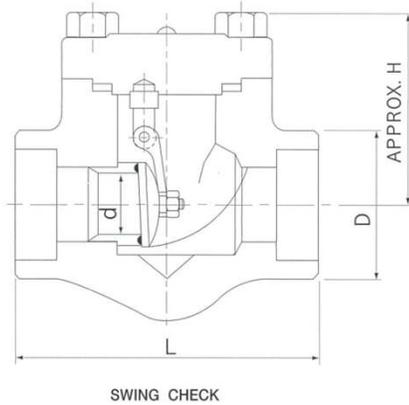
No.	Part Name	Q'ty	MATERIAL - ASTM				
			A105	F304	F304L	F316	F316L
1	Body	1	A105	A182-F304	A182-F304L	A182-F316	A182-F316L
3	Cover	1	A105	A182-F304	A182-F304L	A182-F316	A182-F316L
5	Disc	1	A217-CA15	A351-CF8		A351-CF8M	
7	Seat Ring	1	A276-410	A182-304		A182-316	
8	Retaining Nut	1	A194-2H		A194-8		
9	Hinge	1	A743-CA40	A351-CF8		A351-CF8M	
10	Hinge Pin	1			A276-304		
11	Supporter	1	A276-410	A276-304		A276-316	
12	Cover Bolt	4	A193-B7		A193-B8		
13	Gasket	1	SS304+ Graphite		SS304+Graphite		
23	Nameplate	1			Aluminum		



SWING CHECK VALVES

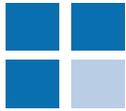
CLASS 800 & 1500

FORGED STEEL SWING CHECK VALVES
BOLTED COVER

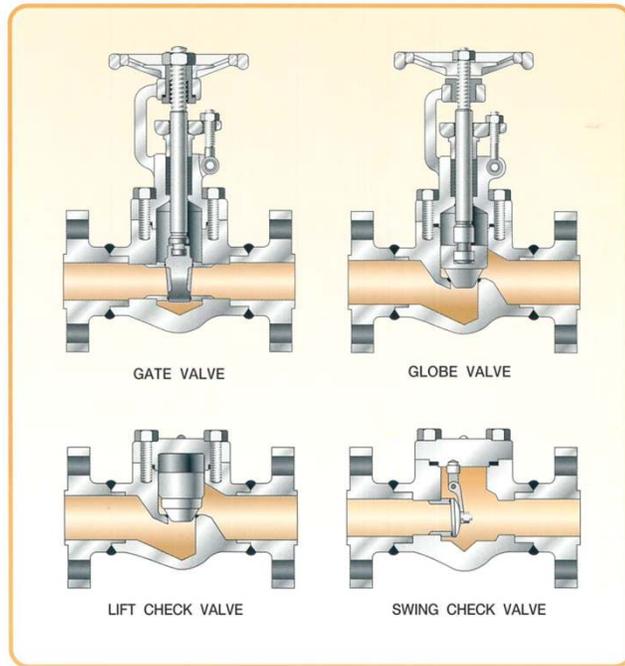
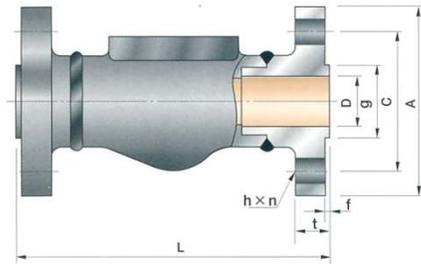


DIMENSIONS & WEIGHTS

CLASS	Port	Valve Size		Center to Top, Open		End to End		End Hub Diameter		Port Diameter		Approx. Weight	
				H		L		D		d			
		DN	in	mm	in	mm	in	mm	in	mm	in	kg	lb
800	Reduced	10	3/8	51	2.00	73	2.87	32	1.26	8	0.31	1.1	2.42
		15	1/2	51	2.00	73	2.87	32	1.26	10	0.39	1.0	2.2
		20	3/4	55	2.17	87	3.42	38	1.50	13	0.51	1.4	3.0
		25	1	65	2.56	96	3.77	46	1.81	19	0.75	2.2	4.85
		32	1 1/4	76	2.99	123	4.84	55	2.17	25	0.98	4.0	8.8
		40	1 1/2	84	3.31	143	5.62	62	2.44	30	1.18	4.1	9.0
		50	2	101	3.98	163	6.41	76	2.99	38	1.50	6.0	13.2
	Full	10	3/8	51	2.00	73	2.87	32	1.26	10	0.39	1.0	2.2
		15	1/2	55	2.17	87	3.42	38	1.50	13	0.51	1.4	3.0
		20	3/4	65	2.56	96	3.77	46	1.81	19	0.75	2.2	4.85
		25	1	76	2.99	123	4.84	55	2.17	25	0.98	4.0	8.8
		32	1 1/4	84	3.31	143	5.62	62	2.44	30	1.18	4.1	9.0
		40	1 1/2	101	3.98	163	6.41	76	2.99	38	1.50	6.0	13.2
		50	2	116	4.57	172	6.77	80	3.14	44.5	1.75	10.6	23.3
1500	Reduced	10	3/8	55	2.17	87	3.42	38	1.50	8	0.31	1.4	3.2
		15	1/2	55	2.17	87	3.42	38	1.50	10	0.39	1.4	3.2
		20	3/4	65	2.56	96	3.77	46	1.81	13	0.51	2.2	5.0
		25	1	76	2.99	123	4.84	55	2.17	19	0.75	4.0	9.2
		32	1 1/4	84	3.31	143	5.62	62	2.44	25	0.98	4.1	9.4
		40	1 1/2	101	3.98	163	6.41	76	2.99	30	1.18	6.0	13.8
		50	2	116	4.57	172	6.77	80	3.14	38	1.50	9.3	20.5
	Full	10	3/8	65	2.56	96	3.77	46	1.81	10	0.39	2.2	5.0
		15	1/2	65	2.56	96	3.77	46	1.81	13	0.51	2.2	5.0
		20	3/4	76	2.99	123	4.84	55	2.17	19	0.75	4.0	9.2
		25	1	84	3.31	143	5.62	62	2.44	25	0.98	4.1	9.4
		32	1 1/4	101	3.98	163	6.41	76	2.99	30	1.18	6.0	13.8
		40	1 1/2	116	4.57	172	6.77	80	3.14	38	1.50	9.3	20.5
		50	2	136	5.35	220	8.66	96	3.77	46	1.81	12.8	28.2



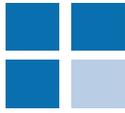
FLANGED END DIMENSIONS



JIS STANDARD

(Unit: mm)

Pressure Rating	Valve Size		DIMENSIONS (JIS B 2210)										Number of Bolts n
			L			D	A	C	g	t	f	h	
	Gate	Globe L/Check	Swing Check	DN	In.								
10Kg/cm ²	15	1/2	108	108	108	17	95	70	51	12		15	4
	20	3/4	117	117	117	23	100	75	56	14	1	15	
	25	1	127	127	127	29	125	90	67	14		19	
	32	1 1/4	140	140	140	35	135	100	76	16		19	
	40	1 1/2	165	165	165	40	140	105	81	16	2	19	
	50	2	178	203	203	52	155	120	96	16		19	
20Kg/cm ²	15	1/2	140	152	152	17	95	70	51	14		15	4
	20	3/4	152	178	178	23	100	75	56	16	1	15	
	25	1	165	203	216	29	125	90	67	16		19	
	32	1 1/4	178	216	229	35	135	100	76	18		19	
	40	1 1/2	190	229	241	40	140	105	81	18	2	19	
	50	2	216	267	267	52	155	120	96	18		19	
30Kg/cm ²	15	1/2	140	152	152	17	115	80	55	18		19	4
	20	3/4	152	178	178	23	120	85	60	18	1	19	
	25	1	165	203	216	29	130	95	70	20		19	
	32	1 1/4	178	216	229	35	140	105	80	22		19	
	40	1 1/2	190	229	241	40	160	120	90	22	2	23	
	50	2	216	267	267	52	165	130	105	22		19	
40Kg/cm ²	15	1/2	165	165	165	17	115	80	55	20		19	4
	20	3/4	190	190	190	23	120	85	60	20	1	19	
	25	1	216	216	216	29	130	95	70	22		19	
	32	1 1/4	229	229	229	35	140	105	80	24		19	
	40	1 1/2	241	241	241	40	160	120	90	24	2	23	
	50	2	292	292	292	52	165	130	105	26		19	
63Kg/cm ²	15	1/2	216	216	216	17	120	85	55	23		19	4
	20	3/4	229	229	229	23	135	95	60	25	1	23	
	25	1	254	254	254	29	140	100	70	27		23	
	32	1 1/4	279	279	279	35	150	110	80	30		23	
	40	1 1/2	305	305	305	40	175	130	90	32	2	25	
	50	2	368	368	368	52	185	145	105	34		23	

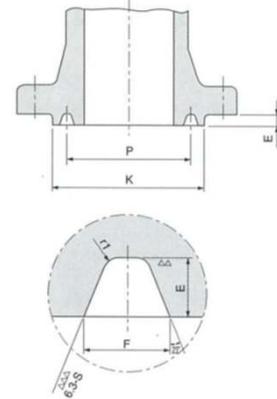


FLANGED END DIMENSIONS

ANSI STANDARD

(Unit: mm/in)

Pressure Rating	Valve	DIMENSIONS (ANSI B 16.5 & B 16.10)																		Number of Bolts n			
		L Gate		Globe		Swing		D		A		C		g		t		f			h		
		DN	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.		mm	in.	
150 Lb/in ²	15 1/2	108	4.25	108	4.25	108	4.25	17	0.67	89	3.50	60.3	2.37	34.9	1.38	11.5	0.44			16	0.62	4	
	20 3/4	117	4.62	117	4.62	117	4.62	23	0.91	98	3.86	69.9	2.75	42.9	1.69	13.0	0.50			16	0.62		
	25 1	127	5.00	127	5.00	127	5.00	29	1.14	108	4.25	79.4	3.13	50.8	2.00	14.5	0.56			16	0.62		
	32 1 1/4	140	5.50	140	5.50	140	5.50	35	1.38	117	4.61	88.9	3.50	63.5	2.50	16.0	0.62			16	0.62		
	40 1 1/2	165	6.50	165	6.50	165	6.50	40	1.57	127	5.00	98.4	3.87	73.0	2.88	17.5	0.69			16	0.62		
	50 2	178	7.00	203	8.00	203	8.00	52	2.05	152	5.98	120.6	4.75	92.1	3.62	19.5	0.75			20	0.75		
300 Lb/in ²	15 1/2	140	5.50	152	6.00	152	6.00	17	0.67	95	3.75	66.7	2.63			14.5	0.56			16	0.62	4	
	20 3/4	152	6.00	178	7.00	178	7.00	23	0.91	117	4.61	82.5	3.25			16.0	0.56			20	0.75		
	25 1	165	6.50	203	8.00	216	8.50	29	1.14	124	4.88	88.9	3.50	Same As Class 150		17.5	0.60			20	0.75		
	32 1 1/4	178	7.00	216	8.50	229	9.00	35	1.38	133	5.24	98.4	3.87	Same As Class 150		19.5	0.75			20	0.75		
	40 1 1/2	190	7.50	229	9.00	241	9.50	40	1.57	156	6.14	114.3	4.50	Same As Class 150		21.0	0.81			22	0.87		
	50 2	216	8.50	267	10.50	267	10.50	52	2.05	165	6.50	127.0	5.00	Same As Class 150		22.5	0.88			20	0.75		
600 Lb/in ²	15 1/2	165	6.50													21.5	0.84					4	
	20 3/4	190	7.50													23.0	0.90						
	25 1	216	8.50	Same As Gate												24.5	0.96			7	0.25		Same As Class 300
	32 1 1/4	229	9.00	Same As Gate												28.0	1.10						300
	40 1 1/2	241	9.50	Same As Gate												29.5	1.16						
	50 2	292	11.50	Same As Gate												32.5	1.27						
900 Lb/in ²	15 1/2	216	8.50					17	0.67	121	4.76	82.5	3.24			29.5	0.89			23	0.91	4	
	20 3/4	229	9.01					23	0.91	130	5.11	88.7	3.50			32.5	1.00			23	0.91		
	25 1	254	10	Same As Gate				29	1.14	149	5.86	101.6	4.00	Same As Class 150		36.0	1.14			26	1.02		
	32 1 1/4	279	10.9	Same As Gate				35	1.38	159	6.25	111.1	4.37	Same As Class 150		36.0	1.14			26	1.02		
	40 1 1/2	305	12.0	Same As Gate				40	1.57	178	7.00	123.8	4.87	Same As Class 150		39.0	1.26			29	1.14		
	50 2	368	14.4	Same As Gate				52	2.05	216	8.50	165.1	6.50	Same As Class 150		45.5	1.52			26	1.02		
1500 Lb/in ²	15 1/2	216	8.50					17	0.67	121	4.76	82.5	3.24			29.5	0.89			23	0.91	4	
	20 3/4	229	9.01					23	0.91	130	5.11	88.9	3.50			32.5	1.00			23	0.91		
	25 1	254	10	Same As Gate				29	1.14	149	5.86	101.6	4.00	Same As Class 150		36.0	1.14			26	1.02		
	32 1 1/4	279	10.9	Same As Gate				35	1.38	159	6.25	111.1	4.37	Same As Class 150		36.0	1.14			26	1.02		
	40 1 1/2	305	12.0	Same As Gate				40	1.57	178	7.00	123.8	4.87	Same As Class 150		39.0	1.26			29	1.14		
	50 2	368	14.4	Same As Gate				52	2.05	216	8.50	165.1	6.5	Same As Class 150		45.5	1.52			26	1.02		
2500 Lb/in ²	15 1/2	264	10.3					17	0.67	133	5.23	88.9	3.5			37.5	0.81			23	0.91	4	
	20 3/4	273	10.7					23	0.91	140	5.51	95.2	3.74			39.0	0.87			23	0.91		
	25 1	307	12.0	Same As Gate				29	1.14	159	5.94	107.9	4.21	Same As Class 150		42.0	0.94			26	1.02		
	32 1 1/4	349	13.7	Same As Gate				35	1.38	184	7.24	130.2	5.12	Same As Class 150		45.5	1.06			29	1.14		
	40 1 1/2	384	15.1	Same As Gate				40	1.57	203	7.99	146.0	5.74	Same As Class 150		51.5	1.13			32	1.26		
	50 2	451	17.7	Same As Gate				52	2.05	235	9.25	171.4	6.74	Same As Class 150		58.0	1.25			29	1.14		



RING JOINT

PN/ Glass	VALVE SIZE	Dia of Raised Face for Ring Joint	Ring No.	Pitch Dia. of Ring Globe	RTJ TYPE		
					Depth of Globe	Width of Globe	Radius of Globe
DN	in.	K	P	(min)	E	F	r1
20/150	15 1/2	-	-	-	-	-	-
	20 3/4	-	-	-	-	-	-
	25 1	63.5	47.62	R15	6.35	8.74	0.8
	32 1 1/4	73.0	57.15	R17	6.35	8.74	0.8
	40 1 1/2	82.5	69.07	R19	6.35	8.74	0.8
50/300	50 2	102	82.55	R22	6.35	8.74	0.8
	15 1/2	51.0	34.14	R11	5.56	7.14	0.8
	20 3/4	63.5	42.88	R13	6.35	8.74	0.8
	25 1	70.0	50.80	R16	6.35	8.74	0.8
	32 1 1/4	79.5	60.32	R18	6.35	8.74	0.8
100/600	40 1 1/2	90.5	68.28	R20	6.35	8.74	0.8
	50 2	108	82.55	R23	7.92	11.91	0.8
	15 1/2	51.0	34.14	R11	5.56	7.14	0.8
	20 3/4	63.5	42.88	R13	6.35	8.74	0.8
	25 1	70.0	50.80	R16	6.35	8.74	0.8
150/900	32 1 1/4	79.5	60.32	R18	6.35	8.74	0.8
	40 1 1/2	90.5	68.28	R20	6.35	8.74	0.8
	50 2	108	82.55	R23	7.92	11.91	0.8
	15 1/2	60.5	39.67	R12	6.35	8.74	0.8
	20 3/4	66.5	44.45	R14	6.35	8.74	0.8
250/1500	25 1	71.5	50.80	R16	6.35	8.74	0.8
	32 1 1/4	81.0	60.32	R18	6.35	8.74	0.8
	40 1 1/2	92.0	68.28	R20	6.35	8.74	0.8
	50 2	124	95.25	R24	7.92	11.91	0.8
	15 1/2	60.5	39.67	R12	6.35	8.74	0.8
420/2500	20 3/4	66.5	44.45	R14	6.35	8.74	0.8
	25 1	71.5	50.80	R16	6.35	8.74	0.8
	32 1 1/4	81.0	60.32	R18	6.35	8.74	0.8
	40 1 1/2	114	82.55	R23	7.92	11.91	0.8
	50 2	133	101.6	R26	7.92	11.91	0.5



METAL SEAT BALL VALVE REPAIR



GLOBE VALVE



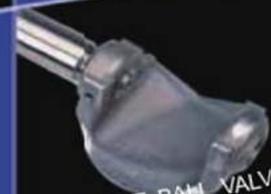
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GATE VALVE



CHECK VALVE



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