

Vogt

Pressure Seal Valves



Vogt reserves the right to incorporate our latest design and material changes without notice or obligation.

Design features, materials of construction and dimensional data, as described in this catalogue, are provided for your information only and should not be relied upon unless confirmed in writing.

For more information visit www.vogtvalves.com

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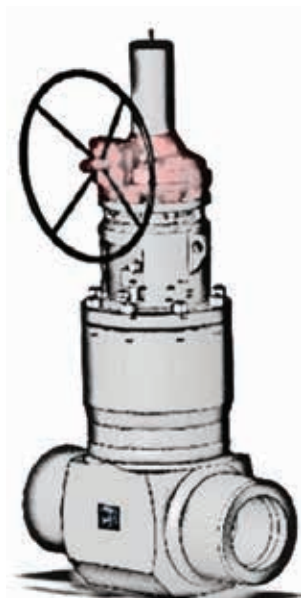
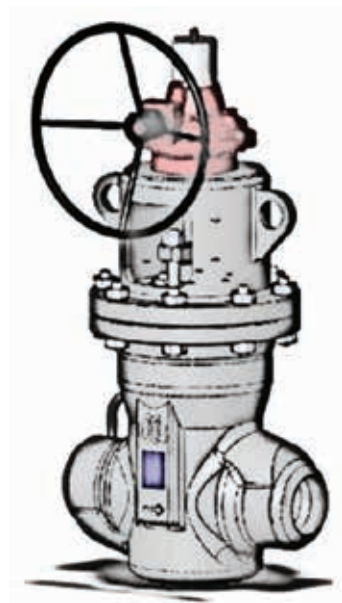
ISSUED 07/2018 revision 01

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Vogt Valves A History in the Making

In the late 1890s, Vogt pioneered the early development of ammonia absorption refrigeration systems that made artificial ice. This business, plus Vogt's fledgling boiler business, created an internal need for quality valves that initiated Vogt's early entry into the valve manufacturing business. 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. Today, Vogt valves support a worldwide network of distributors with access to the world's largest capability for manufacturing of forged steel valves.



VOGT OFFERS FORGED STEEL PRESSURE SEAL VALVES

Class 900 to Class 4500 for the Oil & Gas, Power and Petrochemical Industries.

FORGED PRESSURE SEAL VALVES ARE PREFERRED FOR:

- Severe Service
- Higher reliability
- Stringent leakage rate
- Service to nominal pressure up to class 4500#

AVAILABLE CONFIGURATION:

- Flexible Wedge Gate
- Parallel Slide Gate
- T Pattern Globe
- Y Pattern Globe
- Swing Check
- Tilting Check
- Stop Check

MATERIALS:

Carbon steel: A105 – LF2

Stainless steel:

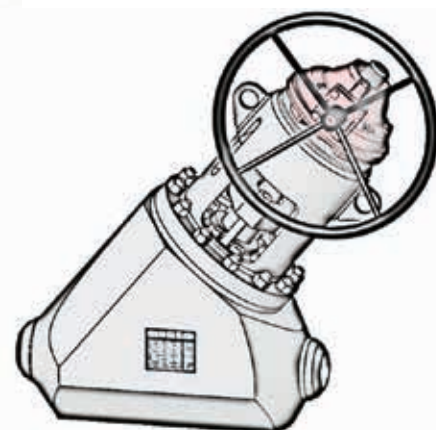
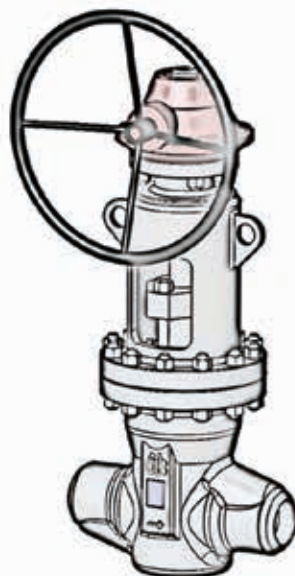
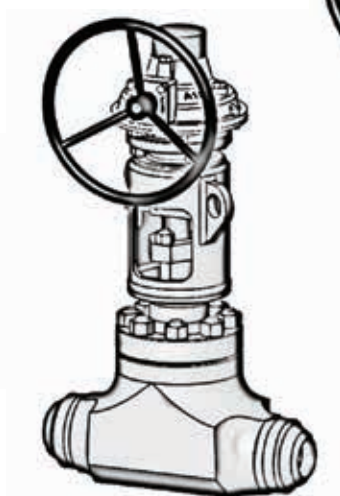
F304 – F316 – F321H – F347H

Low alloyed material: F1 – F5 – F11 – F22 – F9 – F91 – F92

Nickel based: 825 – 625 – Hastelloy® C276 – Hastelloy® C22

DESIGN AND MANUFACTURING STANDARDS

API 600	Steel Gate Valves Flanged and Butt-welding Ends, Bolted Bonnets
API 623	Steel Globe Valves-Flanged and Butt welding Ends, Bolted Bonnets
API 594	Check valves: Flanged, Lug, Wafer and Butt welding
ASME B16.5	Pipe flanges and flanged fittings ISO5210 [NPS ½ through NPS 24]
ASME B16.10	Face to face and end to end dimensions of valves
ASME B16.25	Butt-welding ends
ASME B16.34	Valves-flanged threaded and welding end



QUALITY ASSURANCE

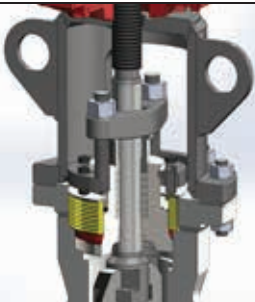
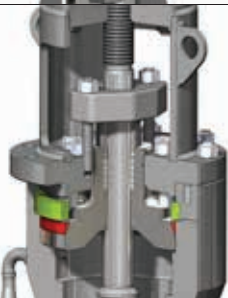
Our activities are organized in accordance to procedures qualified to ISO 9001:2015
TÜV süd

DESIGN AND MANUFACTURING STANDARDS

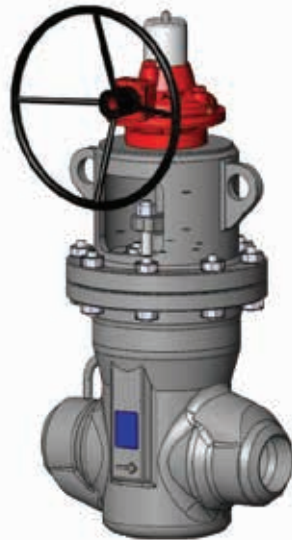
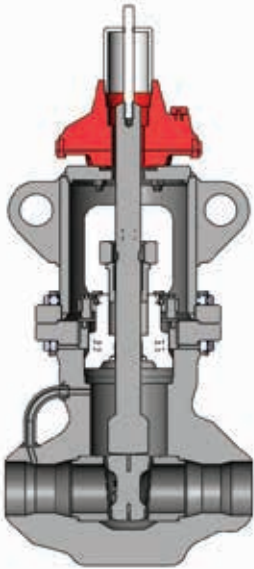
DESIGN AND MANUFACTURING STANDARDS	
API 624	Fugitive emissions testing
API 622	Type testing of process valve packing for fugitive emissions
API 6FA	Specification for fire test for valves
API 607	Fire Safe for quarter turn valves and valves equipped with non metallic seats
ISO 15848-1 & 2	Fugitive emissions testing for valve stem seal and body joint
NACE MR01.75 / ISO15156	Petroleum petrochemical and natural gas industries, materials for use in H ₂ S containing environments oil and gas production

	GATE						GLOBE						CHECK					
	WEDGE			PARALLEL SLIDE			T PATTERN			Y PATTERN			SWING			TILTING		
	#900	#1500	#2500	#900	#1500	#2500	#900	#1500	#2500	#900	#1500	#2500	#900	#1500	#2500	#900	#1500	#2500
1/2"																		
3/4"																		
1"																		
1 1/2"																		
2"																		
2 1/2"																		
3"																		
4"																		
6"																		
8"																		
10"																		
12"																		
14"																		
16"																		
18"																		
20"																		
24"																		

Larger size details available on request • Class 4500 details available on request

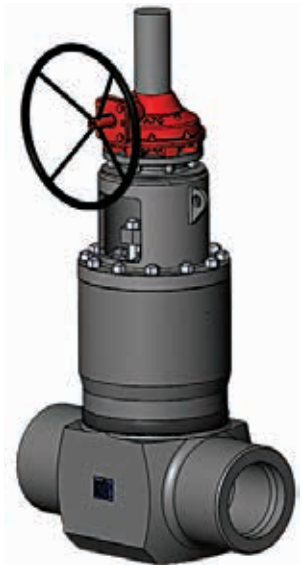
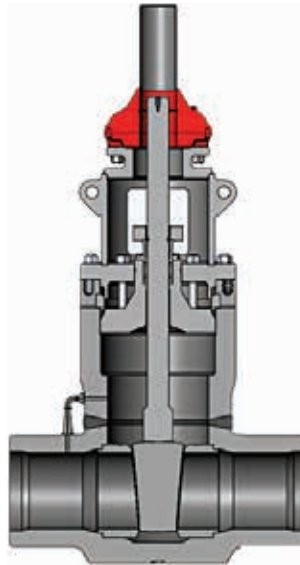
	GATE	GLOBE	CHECK
	TBP - Threaded Body - one forged piece with Pillars		TB - Threaded Body one forged piece
	TBY - Threaded Body - one forged piece with Yoke		
	SR1 - Segmented ring - one forged piece with Yoke		SR - Segmented ring one forged piece
	SR2 - Segmented ring - two forged piece with Yoke		

Weight figures are relevant to BW end valves. For dimensions and weights in larger sizes or flanged valves consult the factory.
Dimensions and weights are subject to change without notice.



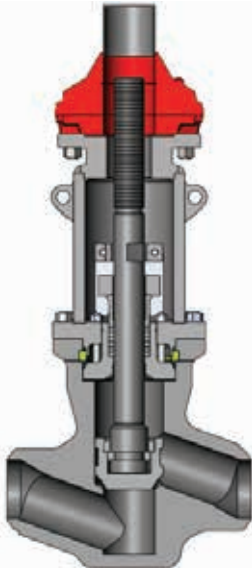
GATE one piece

- Sizes ½" through 6"
- Closed Die Forging
- B16.34 design
- Class 900
- Class 1500
- Class 2500
- Wedge
- Parallel slide



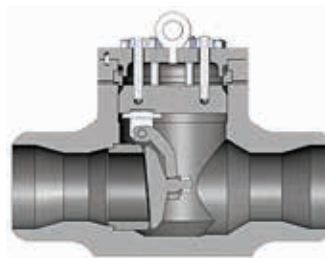
GATE two pieces welded

- Sizes 8" through 24"
- Open Die Forging
- B16.34 design
- Class 900
- Class 1500
- Class 2500
- Wedge
- Parallel slide



GLOBE

- Sizes ½" through 24"
- Closed Die Forging
- B16.34 design
- Class 900
- Class 1500
- Class 2500
- T-Pattern
- Y-Pattern
- Stop Check



CHECK

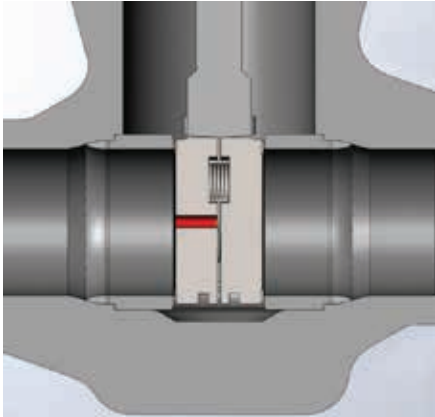
- Sizes ½" through 24"
- Closed Die Forging
- Open Die Forging
- B16.34 design
- Class 900
- Class 1500
- Class 2500
- Swing
- Tilting disc

Weight figures are relevant to BW end valves. For dimensions and weights in larger sizes or flanged valves consult the factory.
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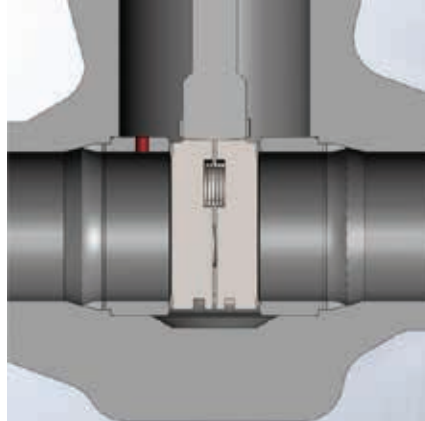


Overpressure Release

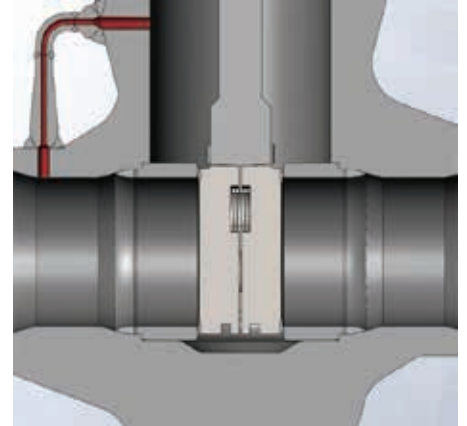
Equalizer pipe, relief valve or drilled seat available to avoid body cavity overpressure.
Body cavity can be pressure equalized upstream by means of:



HOLE IN THE DISC



HOLE IN THE SEAT

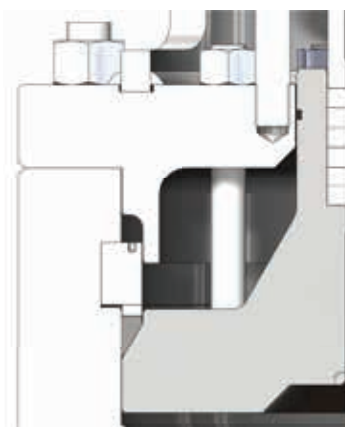


EQUALIZER PIPE

Overpressure relief configurations render the valve unidirectional.

Main Body Seal

Sealing material, composite or metallic, available in triangular shape as standard. Encapsulated rectangular shape available upon request.



PRESSURE SEAL

Bypass and Drain

Bypass and drain are available with on/off globe or gate valves. In case bypass is requested body cavity can still be pressure equalized or pressure relieved. With these configurations the valve will be bidirectional.



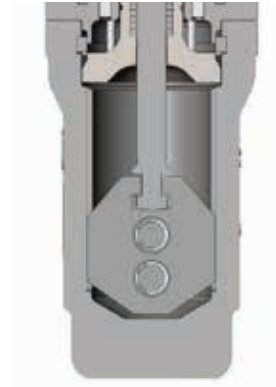
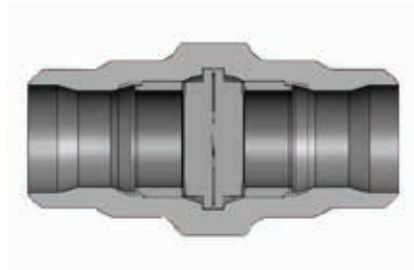
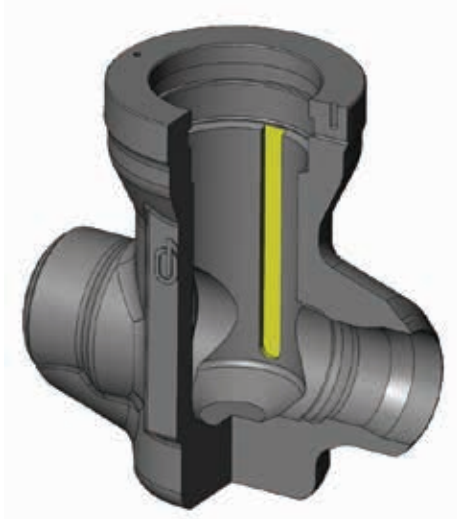
BYPASS WITH ONE
GLOBE VALVE +
PRESSURE RELIEF



BYPASS WITH
TWO GLOBE VALVES +
EQUALIZER PIPE

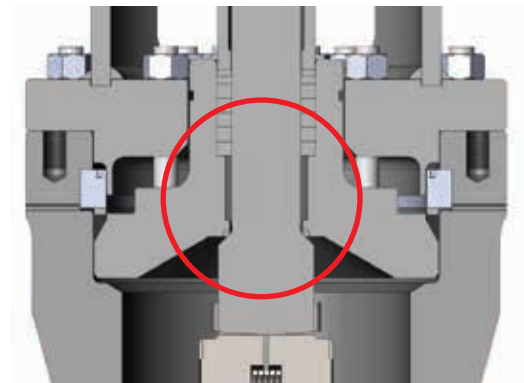
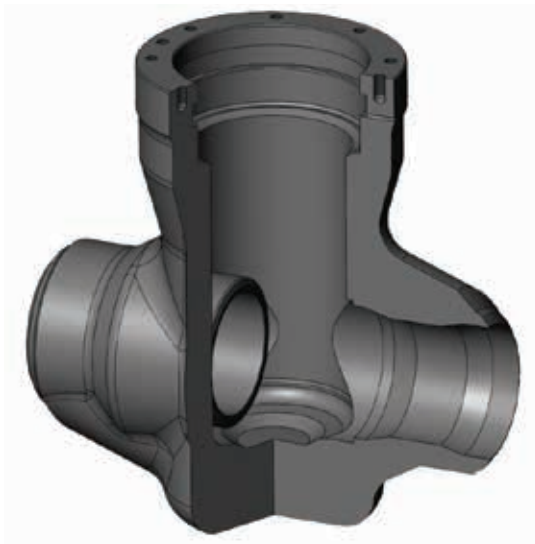
Body Guided Design

Gate standard design has female machined guides in the body
Stem guided design without body grooves available on request



Stem Guided Design

Stem guided by the bushing
Stem and bearing can be Chrome carbide coated



NOTE: Fully supported “pocket” design available





Choice of Operators

Manual, Electric, Hydraulic Actuator, Pneumatic linear Standard operator interfaces connections are designed to ISO5210



BEVEL GEARBOX



ELECTRIC ACTUATOR



HYDRAULIC ACTUATOR



PNEUMATIC LINEAR ACTUATOR

In consideration of the high number of turns required to operate large size valves, Vogt suggests use of an actuator to minimize operating or stroke time.

Double start stem design available to decrease operating time.

Actuator flanges are standardized to ISO 5210 mounting interfaces, allowing interchangeability at any time.

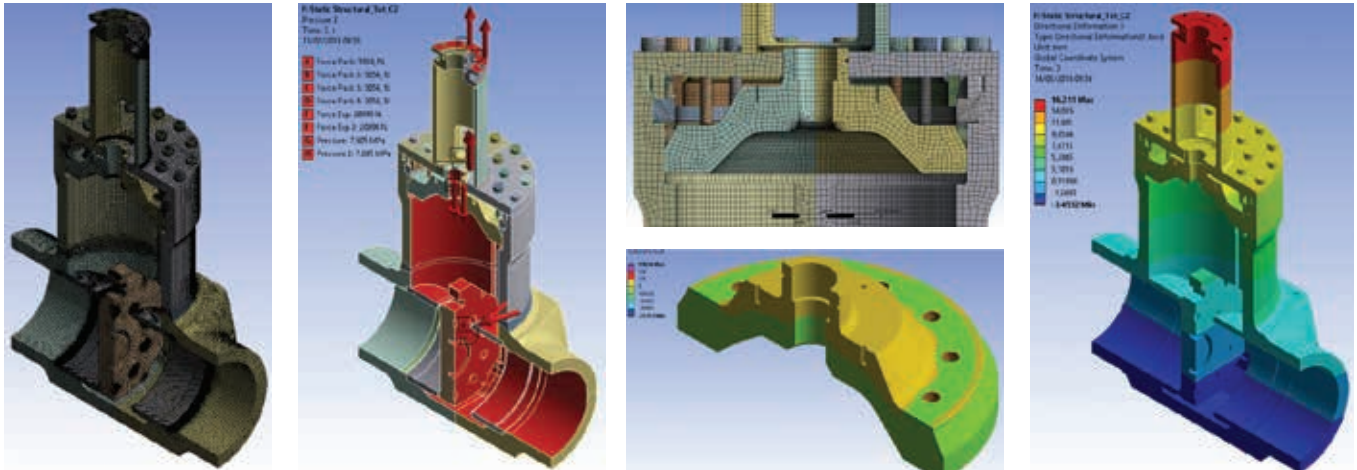
On wedge configuration gear and actuators can be supplied with high temp stem expansion compensator.

DESIGN VERIFICATION

Finite Element Analysis is performed on all designs to evaluate the product performance in simulated min./max. service conditions. Computational Fluid Dynamics calculations and 3D solid design analysis are executed in house.

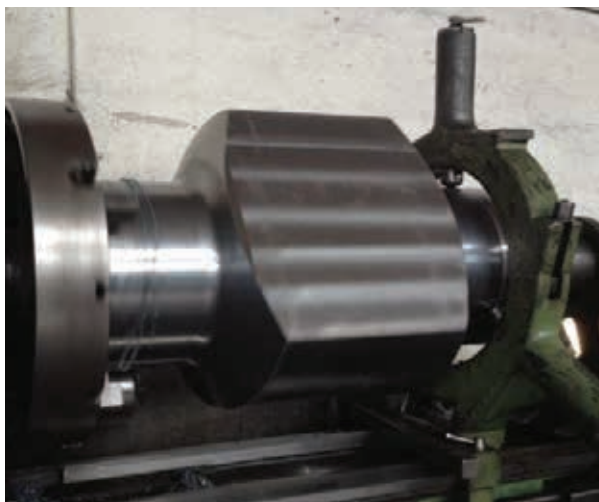
Design analysis is performed in addition to code to mitigate stress and or fatigue introduced by temperature/pressure, maximize flow, minimize erosion and optimize each component part.

DESIGNED BY ANALYSIS AND DESIGNED TO CODE



IN PROCESS QUALITY CONTROL

Forgings up to 50 tons are machined to final shape in any alloyed steel material; strict surveillance of machining tolerances ensure proper mating of parts during assembly. Two piece bodies are full penetration welded with post weld heat treatment and 100% radiographic inspection as standard. All other welding activities are inspected using UT or RX. All component parts are inspected in one of our laboratories, by our NDE technicians and/or our QA/QC level II/III inspectors to guarantee the highest level of reliability.

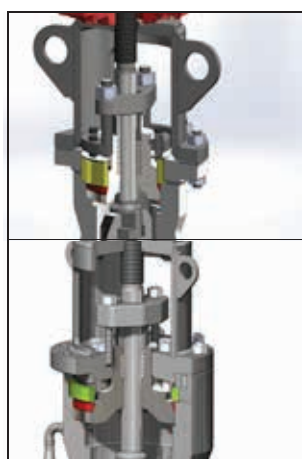


WEDGE GATE VALVES PARALLEL SLIDE GATE VALVES



GATE

	WEDGE			PARALLEL SLIDE		
	#900	#1500	#2500	#900	#1500	#2500
1/2"						
3/4"						
1"						
1 1/2"						
2"						
2 1/2"						
3"						
4"						
6"						
8"						
10"						
12"						
14"						
16"						
18"						
20"						
24"						



GATE	
	TBP - Threaded Body - one forged piece with Pillars
	TBY - Threaded Body - one forged piece with Yoke
	SR1 - Segmented ring - one forged piece with Yoke
	SR2 - Segmented ring - two forged piece with Yoke

WEDGE GATE VALVES PARALLEL SLIDE GATE VALVES

Body Bonnet Construction	Pressure Seal
Body Feature	Forged closed die or open die
Body Assembly	1 integral or 2 piece with full penetration weld
ASME Class	900, 1500, 2500, 4500 details available on request
Bore Construction	Full Bore According to ASME B16.34
Face to Face	According to ASME B16.10 Short Pattern
Valve Ends	Butt Weld according to ASME B16.25. Flanged valves details available on request
Gate Design	Wedge or parallel slide

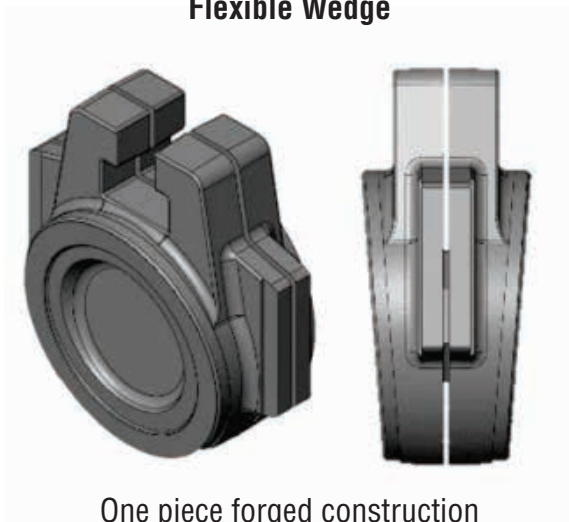
Gate valves are available in two different designs:

- Flexible Wedge (Rigid wedge on request)
- Parallel Slide (Spring energized)

Both gates are guided into the body by integral ribs or guides to avoid any rotation and keep aligned during the stroke.

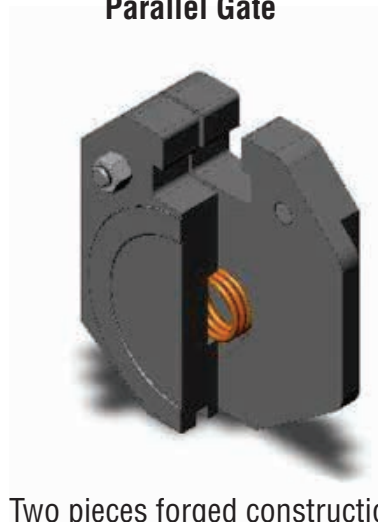
Seats are pressed up to 2" and seal welded above up to 24".

Flexible Wedge

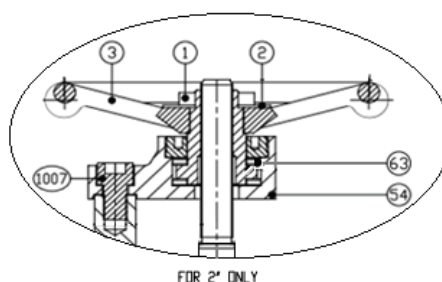
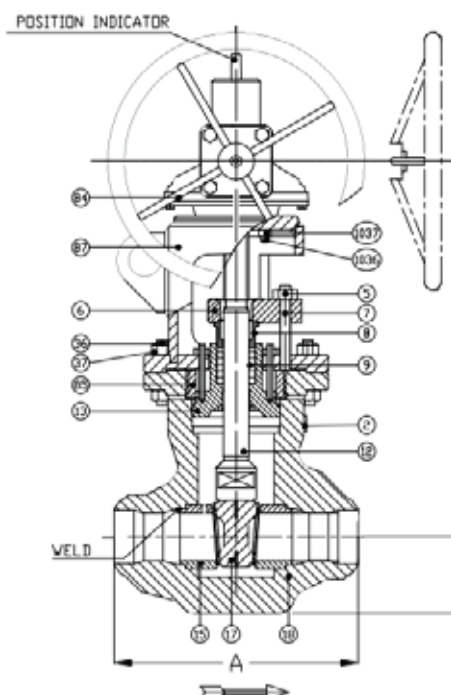


One piece forged construction

Parallel Gate



Two pieces forged construction



SEATS PRESSED INTO THE BODY
BUTT WELDING ENDS ACCORDING TO ASME B16.25
DESIGN ACCORDING TO ASME B16.34
END TO END ACCORDING TO ASME B16.10

DESCRIPTION		MATERIAL SPECIFICATION			
		ASTM A105N	ASTM A182 F11	ASTM A182 F22	ASTM A182 F91
1	WHEEL NUT	CARBON STEEL			
2	NAMEPLATE	AISI 316			
4	YOKE NUT	AISI 416			
5	GLAND NUT	ASTM A194 2H	ASTM A194 Gr.7		
6	GLAND FLANGE	ASTM A105			
7	GLAND STUD	ASTM A193 B7	ASTM A193 B16		
8	GLAND	ASTM A479 410			
9	PACKING	GRAPHITE			
12	STEM	ASTM A479 410			ASTM A479 XM-19
13	BONNET	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A739 B22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
15	SEAT RING	TRIM 5			TRIM 16
17	FLEXIBLE WEDGE	TRIM 5			TRIM 16
18	BODY	ASTM A105N	ASTM A182 F11	ASTM A182 F22 Cl.3	ASTM A182 F91
35	GASKET	S.S. 316			
63	ROLLER BEARING	CARBON STEEL			
66	WASHER	ASTM A516 Gr.70			
3	HANDWHEEL	CARBON STEEL			
1007	PILLAR BOLTS	ASTM A193 B7			
37	PILLAR NUTS	ASTM A194 2H			
85	SCREWED RING	ASTM A479 410			ASTM A479XM-19
54	YOKE FLANGE	ASTM A105N			
87	YOKE	ASTM A105			
2039	BONNET BOLTS	ASTM A193 B8			
1052	COUPLING FLANGE	ASTM A105			
1075	SEGMENTED RING	ASTM A182 F6a CL.2			

CLASS 900

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
½"	140	5.51	40	1.57	240	9.45	8	18
¾"	140	5.51	45	1.77	265	10.43	12	27
1"	140	5.51	50	1.97	280	11.02	15	34
1 ½"	178	7.01	55	2.17	390	15.35	25	56
2"	216	8.50	60	2.36	340	13.39	25	56

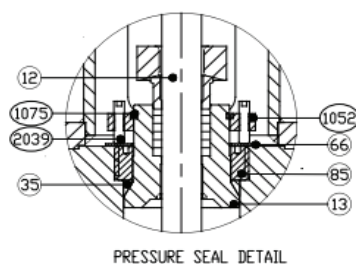
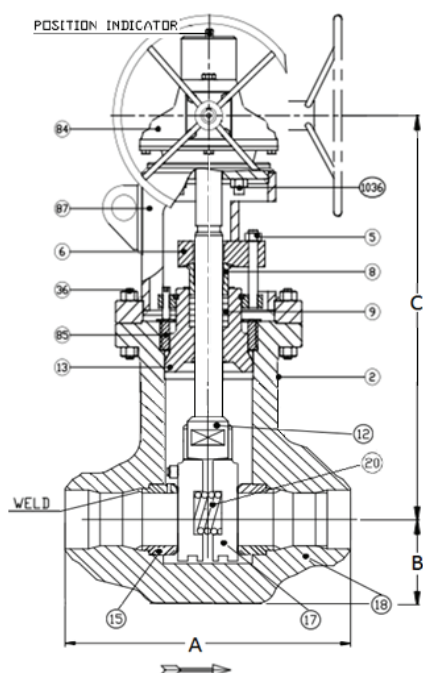
CLASS 1500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
½"	150	5.91	43	1.69	260	10.24	9	20
¾"	178	7.01	60	2.36	286	11.26	14	31
1"	180	7.09	60	2.36	290	11.42	16	36
1 ½"	235	9.25	60	2.36	345	13.58	28	62
2"	216	8.50	70	2.76	346	13.62	28	62

CLASS 2500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
½"	150	5.91	56	2.20	265	10.43	16	36
¾"	150	5.91	56	2.20	290	11.42	18	40
1"	210	8.27	60	2.36	300	11.81	25	56
1 ½"	235	9.25	70	2.76	345	13.58	27	60
2"	279	10.98	75	2.95	395	15.55	43	95

One single piece - closed die forging | Threaded body with pillars



BUTT WELDING ENDS ACCORDING TO ASME B16.25
 DESIGN ACCORDING TO ASME B16.34
 SEAL WELDED SEATS
 END TO END ACCORDING TO ASME B16.10 SHORT PATTERN

DESCRIPTION		MATERIAL SPECIFICATION			
		ASTM A105N	ASTM A182 F11	ASTM A182 F22	ASTM A182 F91
2	NAMEPLATE	AISI 316			
5	GLAND NUT	ASTM A194 2H	ASTM A194 Gr.7		
6	GLAND FLANGE	ASTM A105			
7	GLAND STUD	ASTM A193 B7	ASTM A193 B16		
8	GLAND	ASTM A479 410			
9	PACKING	GRAPHITE			
12	STEM	ASTM A479 410			ASTM A479 XM-19
13	BONNET	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A739 B22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
15	SEAT	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A739 B22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
17	FLEXIBLE WEDGE	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A739 B22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
18	BODY	ASTM A105N	ASTM A182 F11	ASTM A182 F22 Cl.3	ASTM A182 F91
35	GASKET	GRAPHITE + SS.316			
36	STUD BOLTS/NUT	ASTM A193 B7 /2H	ASTM A193 B16 / Gr.7		
66	WASHER	CARBON STEEL			
84	BEVEL GEAR	DUCTILE IRON			
85	SCREWED RING	ASTM A182 F6A CL.2			ASTM A182 FXM-19
87	YOKE	ASTM A105			
1036	STUDS FOR GEAR	ASTM A193 B7			
1037	STUD NUT FOR GEAR	ASTM A194 2H			
1052	COUPLING FLANGE	ASTM A105			
1075	SEGMENTED RING	ASTM A182 F6a CL.2			
2039	BONNET BOLTS	ASTM A193 B8			

Weight figures are relevant to BW end valves. For dimensions and weights in larger sizes or flanged valves consult the factory.
 Dimensions and weights are subject to change without notice.

CLASS 900

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
2 ½"	254	10	65	2.56	400	15.75	38	84
3"	305	12.01	85	3.35	450	17.72	72	159
4"	356	14.02	115	4.53	510	20.08	125	276

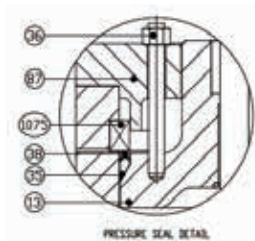
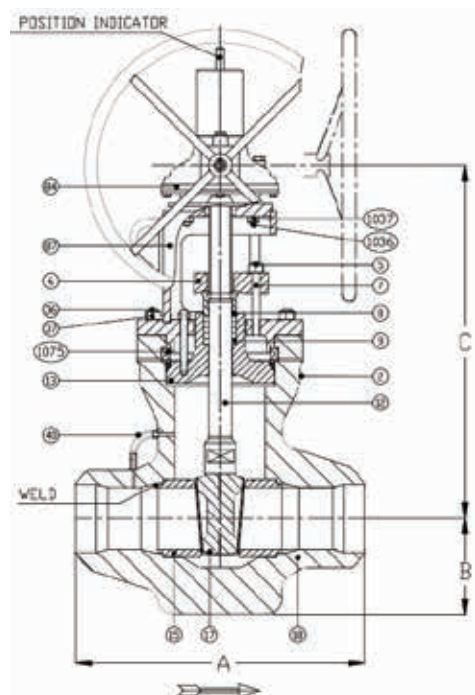
CLASS 1500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
2 ½"	254	10	65	2.56	370	14.57	35	78
3"	305	12.01	95	3.74	470	18.50	80	177
4"	406	15.98	120	4.72	550	21.65	145	320

CLASS 2500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
2 ½"	330	12.99	75	2.95	395	15.55	45	100
3"	368	14.49	95	3.74	475	18.70	83	183
4"	457	17.99	120	4.72	590	23.23	180	397

One single piece - closed die forging | Threaded body with yoke



BUTT WELDING ENDS ACCORDING TO ASME B16.25

DESIGN ACCORDING TO ASME B16.34

SEAL WELDED SEATS

ND TO END ACCORDING TO ASME B16.10

DESCRIPTION		MATERIAL SPECIFICATION			
		ASTM A105N	ASTM A182 F11	ASTM A182 F22	ASTM A182 F91
2	NAMEPLATE	AISI 316			
5	GLAND NUT	ASTM A194 2H	ASTM A194 Gr.7		
6	GLAND FLANGE	ASTM A105			
7	GLAND STUD	ASTM A193 B7	ASTM A193 B16		
8	GLAND	ASTM A479 410			
9	PACKING	GRAPHITE			
12	STEM	ASTM A479 410			ASTM A479 XM-19
13	BONNET	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A739 B22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
15	SEAT	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A739 B22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
17	FLEXIBLE WEDGE	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A182 F22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
18	BODY	ASTM A105N	ASTM A182 F11	ASTM A182 F22 Cl.3	ASTM A182 F91
35	GASKET	GRAPHITE + SS.316			
36	STUDS	ASTM A193 B7	ASTM A193 B16		
37	STUD NUT	ASTM A194 2H	ASTM A194 Gr.7		
38	SPACER RING	ASTM A105			F316
40	EQUALIZER	ASTM A106 Gr.B	ASTM A335 P22		ASTM A335 P91
84	BEVEL GEAR	DUCTILE IRON			
87	YOKE	ASTM A105			
1036	STUDS FOR GEAR	ASTM A193 B7			
1037	STUD NUT FOR GEAR	ASTM A194 2H			
1075	SEGMENTED RING	ASTM A182 F6a CL.2			ASTM A182 FXM-19

CLASS 900

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
6"	508	20	145	5.71	710	27.95	240	530
8"	660	25.98	205	8.07	795	31.30	490	1081

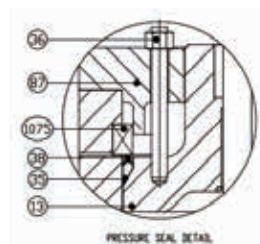
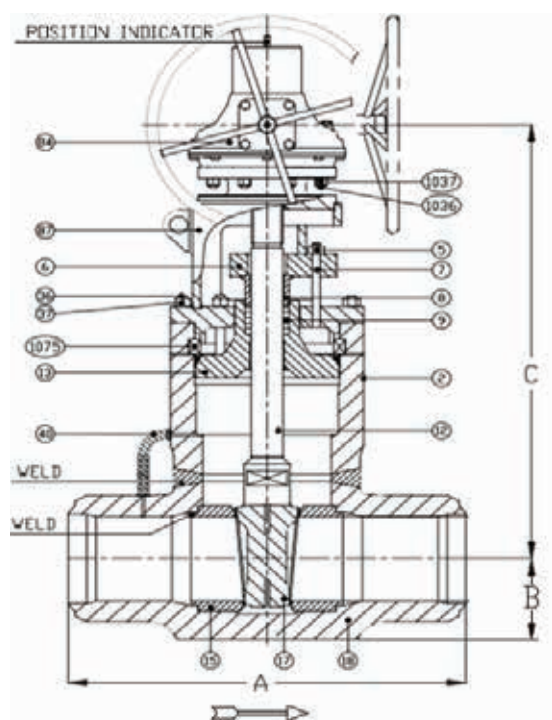
CLASS 1500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
6"	559	22.01	165	6.50	685	26.97	275	607
8"	771	27.99	200	7.87	825	32.48	565	1246

CLASS 2500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
6"	610	24.02	145	5.71	805	31.69	462	1019
8"	-	-	-	-	-	-	-	-

One single piece - closed die forging | Segmented ring design



BUTT WELDING ENDS ACCORDING TO ASME B16.25
DESIGN ACCORDING TO ASME B16.34
SEAL WELDED SEATS
ND TO END ACCORDING TO ASME B16.10 SHORT PATTERN

DESCRIPTION		MATERIAL SPECIFICATION			
		ASTM A105N	ASTM A182 F11	ASTM A182 F22	ASTM A182 F91
2	NAMEPLATE	AISI 316			
5	GLAND NUT	ASTM A194 2H	ASTM A194 Gr.7		
6	GLAND FLANGE	ASTM A105			
7	GLAND STUD	ASTM A193 B7	ASTM A193 B16		
8	GLAND	ASTM A479 410			
9	PACKING	GRAPHITE			
12	STEM	ASTM A479 410			ASTM A479 XM-19
13	BONNET	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A739 B22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
15	SEAT	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A739 B22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
17	FLEXIBLE WEDGE	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A182 F22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
18	BODY	ASTM A105N	ASTM A182 F11	ASTM A182 F22 Cl.3	ASTM A182 F91
35	GASKET	GRAPHITE + SS.316			
36	STUDS	ASTM A193 B7	ASTM A193 B16		
37	STUD NUT	ASTM A194 2H	ASTM A194 Gr.7		
38	SPACER RING	ASTM A105			F316
40	EQUALIZER	ASTM A106 Gr.B	ASTM A335 P22		ASTM A335 P91
84	BEVEL GEAR	DUCTILE IRON			
87	YOKE	ASTM A105			
1036	STUDS FOR GEAR	ASTM A193 B7			
1037	STUD NUT FOR GEAR	ASTM A194 2H			
1075	SEGMENTED RING	ASTM A182 F6a CL.2			ASTM A182 FXM-19

CLASS 900

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
8"	-	-	-	-	-	-	-	-
10"	787	30.98	195	7.68	865	34.06	730	1610
12"	914	35.98	225	8.86	1105	43.50	1300	2867
14"	991	39.02	250	9.84	1295	50.98	1820	4013
16"	1092	42.99	270	10.63	1450	57.09	2884	6359
18"	1219	47.99	300	11.81	1560	61.42	3753	8274
20"	1321	52.01	335	13.19	1800	70.87	5662	12483
24"	1549	60.98	400	15.75	1980	77.95	8303	18305

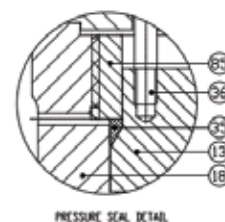
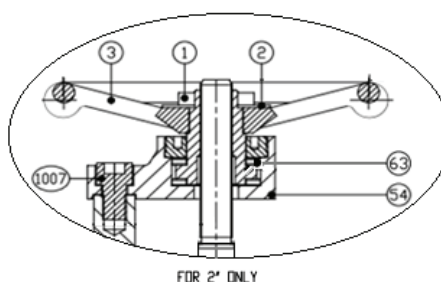
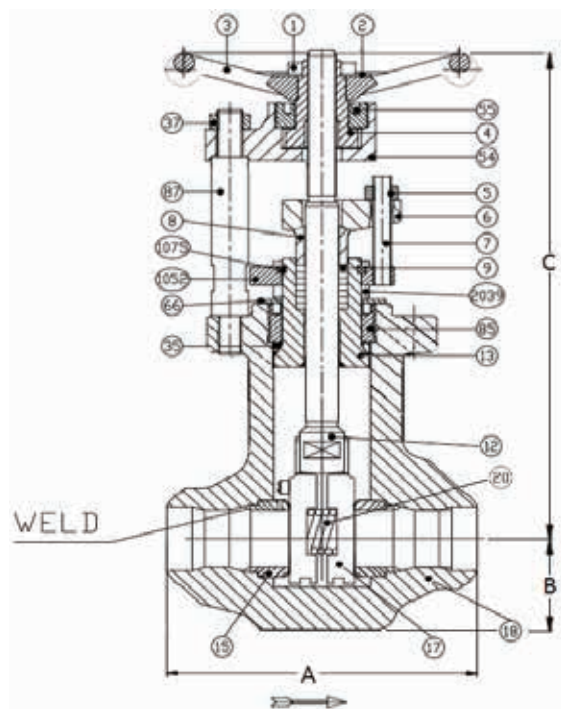
CLASS 1500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
8"	-	-	-	-	-	-	-	-
10"	864	34.02	210	8.27	1050	41.34	925	2040
12"	991	39.02	230	9.06	1255	49.41	1585	3495
14"	1067	42.01	265	10.43	1400	55.12	2060	4542
16"	1194	47.01	295	11.61	1575	62.01	3035	6692
18"	1346	52.99	320	12.60	1670	65.75	3950	8709
20"	1473	57.99	365	14.37	2015	79.33	5960	13140
24"	1943	76.50	550	21.65	2180	85.83	9460	20856

CLASS 2500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
8"	762	30	190	7.48	1070	42.13	940	2073
10"	914	35.98	245	9.65	1270	50	1750	3859
12"	1041	40.98	278	10.94	1450	57.09	2500	5512
14"	1118	44.02	330	12.99	1570	61.81	2830	6240
16"	1245	49.02	368	14.49	1790	70.47	3900	8599
18"	1397	55	435	17.13	1890	74.41	4700	10362
20"	1473	57.99	485	19.09	2100	82.68	6500	14331
24"	1943	76.50	670	26.38	2260	88.98	11000	24251

Two pieces welded - open die forgings | Segmented ring design



SEAL WELDED SEAT RING
BUTT WELDING ENDS ACCORDING TO ASME B16.25
DESIGN ACCORDING TO ASME B16.34
END TO END ACCORDING TO ASME B16.10 SHORT PATTERN

DESCRIPTION		MATERIAL SPECIFICATION			
		ASTM A105N	ASTM A182 F11	ASTM A182 F22	ASTM A182 F91
1	WHEEL NUT	CARBON STEEL			
2	NAMEPLATE	AISI 316			
4	YOKE NUT	AISI 416			
5	GLAND NUT	ASTM A194 2H	ASTM A194 Gr.7		
6	GLAND FLANGE	ASTM A105			
7	GLAND STUD	ASTM A193 B7	ASTM A193 B16		
8	GLAND	ASTM A479 410			
9	PACKING	GRAPHITE			
12	STEM	ASTM A479 410			ASTM A479 XM-19
13	BONNET	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A739 B22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
15	SEAT RING	TRIM 5			TRIM 16
17	WEDGE PARALLEL	TRIM 5			TRIM 16
18	BODY	ASTM A105N	ASTM A182 F11	ASTM A182 F22 Cl.3	ASTM A182 F91
20	SPRING DISC	ALLOY X-750			
35	GASKET	S.S. 316			
66	WASHER	ASTM A516 Gr.70			
3	HANDWHEEL	CARBON STEEL			
1007	PILLAR BOLTS	ASTM A193 B7			
37	PILLAR NUTS	ASTM A194 2H			
85	SCREWED RING	ASTM A479 410			ASTM A479 XM-19
54	YOKE FLANGE	ASTM A105N			
55	RING NUT YOKE	ASTM A479 410			
87	PILLARS	ASTM A105			
2039	BONNET BOLTS	ASTM A193 B8			
1052	COUPLING FLANGE	ASTM A105			
1075	SEGMENTED RING	ASTM A182 F6			

Weight figures are relevant to BW end valves. For dimensions and weights in larger sizes or flanged valves consult the factory.
Dimensions and weights are subject to change without notice.

CLASS 900

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
½"	140	5.51	40	1.57	248	10	8	19
¾"	140	5.51	45	1.77	273	11	13	29
1"	140	5.51	50	1.97	289	12	16	37
1 ½"	178	7.01	55	2.17	402	16	27	61
2"	216	8.50	60	2.36	351	14	27	61

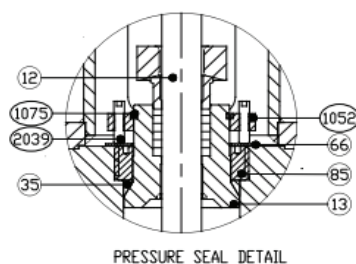
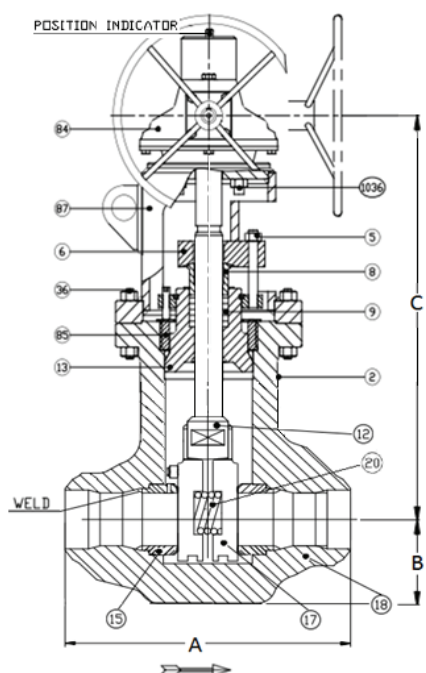
CLASS 1500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
½"	150	5.91	43	1.69	268	11	9	22
¾"	178	7.01	60	2.36	295	12	15	34
1"	180	7.09	60	2.36	299	12	17	39
1 ½"	235	9.25	60	2.36	356	14	30	68
2"	216	8.50	70	2.76	357	15	30	68

CLASS 2500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
½"	150	5.91	56	2.20	273	11	17	39
¾"	150	5.91	56	2.20	299	12	19	44
1"	210	8.27	60	2.36	309	13	27	61
1 ½"	235	9.25	70	2.76	356	14	29	66
2"	279	10.98	75	2.95	407	17	47	104

One single piece - closed die forging | Threaded body with pillars



BUTT WELDING ENDS ACCORDING TO ASME B16.25
DESIGN ACCORDING TO ASME B16.34
SEAL WELDED SEATS
END TO END ACCORDING TO ASME B16.10 SHORT PATTERN

DESCRIPTION		MATERIAL SPECIFICATION			
		ASTM A105N	ASTM A182 F11	ASTM A182 F22	ASTM A182 F91
2	NAMEPLATE	AISI 316			
5	GLAND STUD & NUT	ASTM A193 B7 / 2H	ASTM A193 B16 / Gr.7		
6	GLAND FLANGE	ASTM A105			
8	GLAND	ASTM A479 410			
9	PACKING	GRAPHITE			
12	STEM	ASTM A479 410			ASTM A479 XM-19
13	BONNET	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A739 B22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
15	SEAT RING	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A739 B22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
17	WEDGE PARALLEL	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A739 B22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
18	BODY	ASTM A105N	ASTM A182 F11	ASTM A182 F22 Cl.3	ASTM A182 F91
20	SPRING	ALLOY X-750			
35	GASKET	GRAPHITE + SS.316			
36	Â STUD BOLTS/NUT	ASTM A193 B7 /2H	ASTM A193 B16 / Gr.7		
66	WASHER	CARBON STEEL			
84	BEVEL GEAR	DUCTILE IRON			
85	SCREWED RING	ASTM A182 F6A CL.2			ASTM A182 FXM-19
87	YOKE	ASTM A105			
1036	STUDS FOR GEAR	ASTM A193 B7 / 2H			
1052	COUPLING FLANGE	ASTM A105			
1075	SEGMENTED RING	ASTM A182 F6			
2039	BONNET BOLTS	ASTM A193 B8			

CLASS 900

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
2 ½"	254	10	65	2.56	412	17	41	92
3"	305	12.01	85	3.35	464	19	79	174
4"	356	14.02	115	4.53	526	21.1	137	303

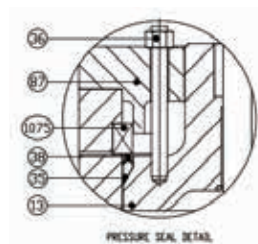
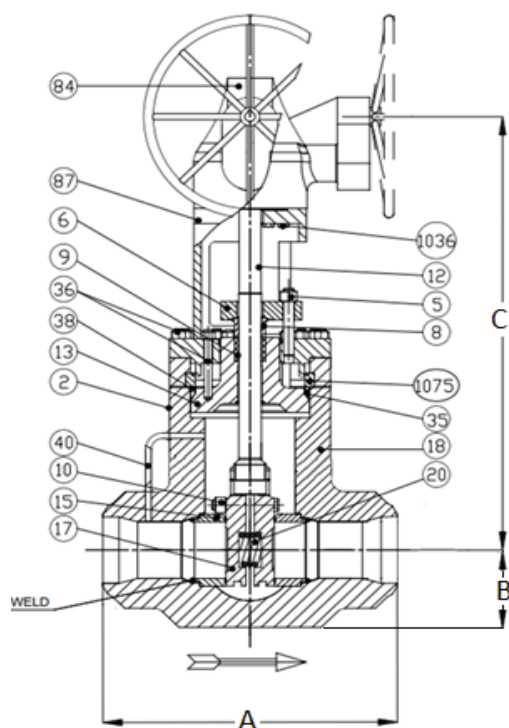
CLASS 1500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
2 ½"	254	10	65	2.56	382	16	38	85
3"	305	12.01	95	3.74	485	20	88	194
4"	406	15.98	120	4.72	567	22.7	159	352

CLASS 2500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
2 ½"	330	12.99	75	2.95	407	17	49	110
3"	368	14.49	95	3.74	490	20	91	201
4"	457	17.99	120	4.72	608	24.4	198	436

One single piece - closed die forging | Threaded body with yoke



BUTT WELDING ENDS ACCORDING TO ASME B16.25

DESIGN ACCORDING TO ASME B16.34

SEAL WELDED SEATS

END TO END ACCORDING TO ASME B16.10 SHORT PATTERN

DESCRIPTION		MATERIAL SPECIFICATION			
		ASTM A105N	ASTM A182 F11	ASTM A182 F22	ASTM A182 F91
2	NAMEPLATE	AISI 316			
5	GLAND BOLT/NUT	ASTM A193 B7 / 2H	ASTM A193 B16 / Gr. 7		
6	GLAND FLANGE	ASTM A105			
8	GLAND	ASTM A479 410			
9	PACKING	GRAPHITE			
10	DISC BOLT	ASTM A193 B8 / ASTM A194 Gr.8			
12	STEM	ASTM A479 410			ASTM A479 XM-19
13	BONNET	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A739 B22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
15	SEAT RING	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A739 B22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
17	WEDGE PARALLEL	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A182 F22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
18	BODY	ASTM A105N	ASTM A182 F11	ASTM A182 F22 Cl.3	ASTM A182 F91
20	SPRING	ALLOY X-750			
35	GASKET	GRAPHITE + SS.316			
36	STUDS	ASTM A193 B7	ASTM A193 B16		
37	STUD NUT	ASTM A194 2H	ASTM A194 Gr.7		
38	SPACER RING	ASTM A105			F316
40	EQUALIZER	ASTM A106 Gr.B	ASTM A335 P22		ASTM A335 P91
84	BEVEL GEAR	DUCTILE IRON			
87	YOKE	ASTM A105			
1036	STUD/NUT FOR GEAR	ASTM A193 B7 / ASTM A194 2H			
1075	SEGMENTED RING	ASTM A182 F6a CL.2			ASTM A182 FXM-19

CLASS 900

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
6"	508	20	145	5.71	718	29	264	583
8"	660	25.98	205	8.07	803	32	539	1189

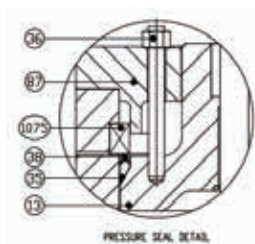
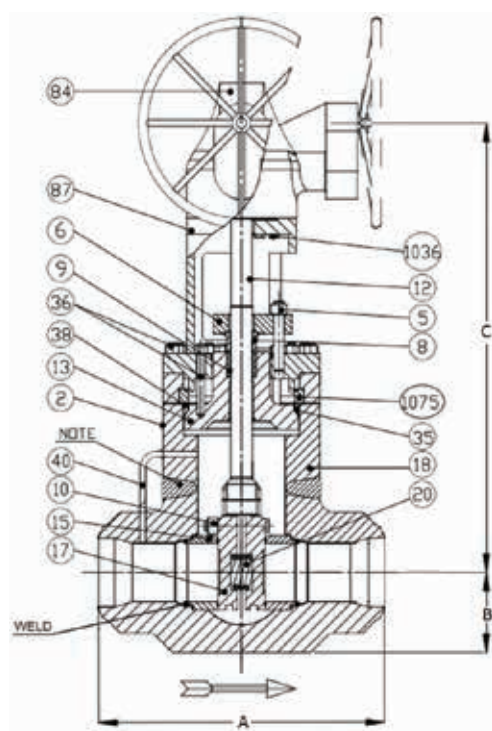
CLASS 1500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
6"	559	22.01	165	6.50	692	28	302	667
8"	771	27.99	200	7.87	834	33	621	1370

CLASS 2500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
6"	610	24.02	145	5.71	814	33	508	1120
8"	-	-	-	-	-	-	-	-

One single piece - closed die forging | Segmented ring design



BUTT WELDING ENDS ACCORDING TO ASME B16.25

SEAL WELDED SEATS

DESIGN ACCORDING TO ASME B16.34

END TO END ACCORDING TO ASME B16.10 SHORT PATTERN

FULL PENETRATION WELD ACCORDING TO ASME SECT. IX

DESCRIPTION		MATERIAL SPECIFICATION			
		ASTM A105N	ASTM A182 F11	ASTM A182 F22	ASTM A182 F91
2	NAMEPLATE	AISI 316			
5	GLAND STUD/NUT	ASTM A193 B7 / 2H	ASTM A193 B16 / Gr.7		
6	GLAND FLANGE	ASTM A105			
8	GLAND	ASTM A479 410			
9	PACKING	GRAPHITE			
10	DISC BOLT	ASTM A193 B8 / Gr.8			
12	STEM	ASTM A479 410			ASTM A479 XM-19
13	BONNET	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A739 B22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
15	SEAT RING	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A739 B22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
17	Â WEDGE PARALLEL	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A182 F22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
18	BODY	ASTM A105N	ASTM A182 F11	ASTM A182 F22 Cl.3	ASTM A182 F91
20	SPRING	ALLOY X-750			
35	GASKET	GRAPHITE + SS.316			
36	STUD / NUT	ASTM A193 B7 / 2H	ASTM A193 B16 / Gr.7		
38	SPACER RING	ASTM A105			F316
40	EQUALIZER	ASTM A106 Gr.B	ASTM A335 P22		ASTM A335 P91
84	BEVEL GEAR	DUCTILE IRON			
87	YOKE	ASTM A105			
1036	STUD/NUT FOR GEAR	ASTM A193 B7 / 2H			
1075	SEGMENTED RING	ASTM A182 F6a CL.2			ASTM A182 FXM-19

Weight figures are relevant to BW end valves. For dimensions and weights in larger sizes or flanged valves consult the factory.
Dimensions and weights are subject to change without notice.

CLASS 900

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
8"	-	-	-	-	-	-	-	-
10"	787	30.98	195	7.68	874	35	803	1771
12"	914	35.98	225	8.86	1117	44	1430	3153
14"	991	39.02	250	9.84	1308	52	2002	4414
16"	1092	42.99	270	10.63	1465	58	3172	6994
18"	1219	47.99	300	11.81	1576	63	4128	9101
20"	1321	52.01	335	13.19	1818	72	6228	13731
24"	1549	60.98	400	15.75	2000	78.7	9133	20135

CLASS 1500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
8"	-	-	-	-	-	-	-	-
10"	864	34.02	210	8.27	1061	42	1017	2244
12"	991	39.02	230	9.06	1268	50	1743	3844
14"	1067	42.01	265	10.43	1414	56	2266	4996
16"	1194	47.01	295	11.61	1591	63	3338	7361
18"	1346	52.99	320	12.60	1687	67	4345	9579
20"	1473	57.99	365	14.37	2036	81	6556	14454
24"	1943	76.50	550	21.65	2202	86.69	10406	22942

CLASS 2500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
8"	762	30	190	7.48	1081	43	1034	2280
10"	914	35.98	245	9.65	1283	51	1925	4244
12"	1041	40.98	278	10.94	1465	58	2750	6063
14"	1118	44.02	330	12.99	1586	63	3113	6864
16"	1245	49.02	368	14.49	1808	72	4290	9458
18"	1397	55	435	17.13	1909	76	5170	11398
20"	1473	57.99	485	19.09	2121	84	7150	15764
24"	1943	76.50	670	26.38	2283	89.9	12100	26676

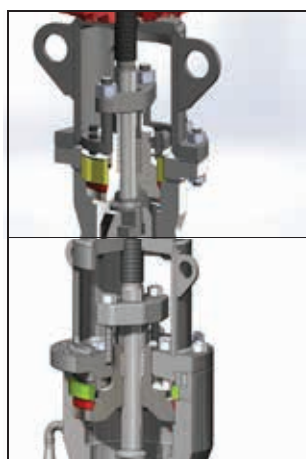
Two pieces welded - open die forging | Segmented ring design

GLOBE T VALVES GLOBE Y VALVES - STOP CHECK



GLOBE

	T-PATTERN			Y-PATTERN		
	#900	#1500	#2500	#900	#1500	#2500
½"						
¾"						
1"						
1 ½"						
2"						
2 ½"						
3"						
4"						
6"						
8"						
10"						
12"						
14"						
16"						
18"						
20"						
24"						

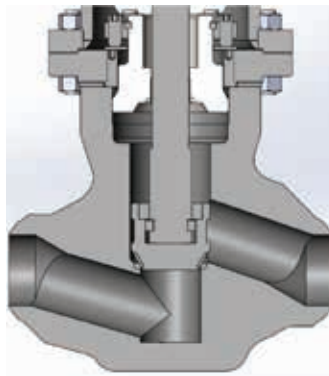


GLOBE
TBP - Threaded Body - one forged piece with Pillars
TBy - Threaded Body - one forged piece with Yoke
SR1 - Segmented ring - one forged piece with Yoke
SR2 - Segmented ring - two forged piece with Yoke

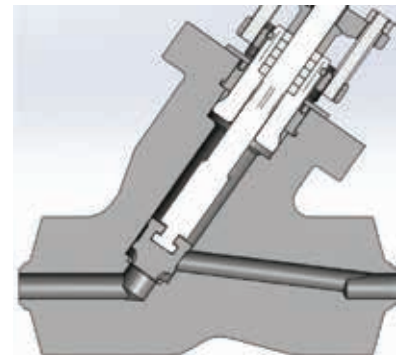
GLOBE T VALVES GLOBE Y VALVES - STOP CHECK

Body Bonnet Construction	Pressure Seal
Body Feature	Forged closed die or open die
Body Assembly	1 integral or 2 piece with full penetration weld
ASME Class	900, 1500, 2500, 4500 details available on request
Bore Construction	Full Bore According to ASME B16.34
Face to Face	According to ASME B16.10 Short Pattern
Valve Ends	Butt Weld according to ASME B16.25. Flanged valves details available on request
Disc Design	Plug Parabolic & Stop Check

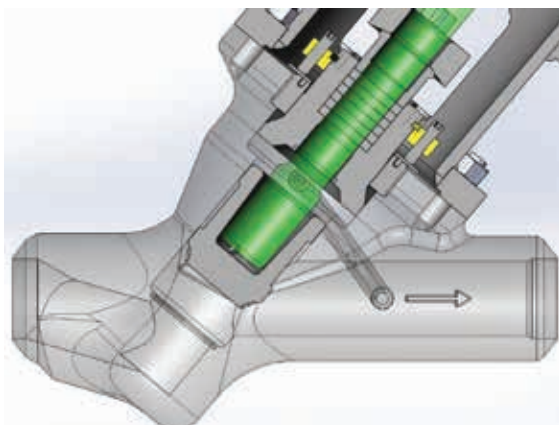
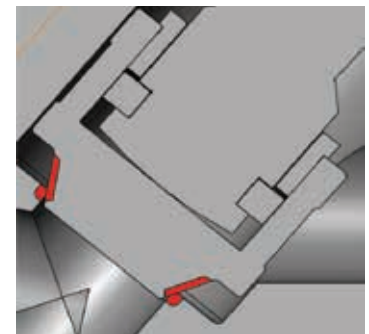
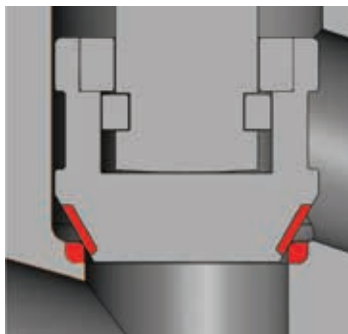
Vertical stem Globe "T" have the stem orientation 90 degrees from the flow line.



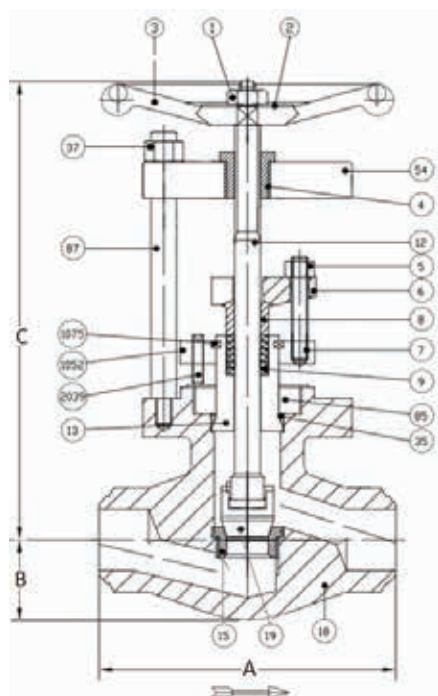
"Y" Pattern Globe have 40-50 degrees inclined stem from the flow line to increase the CV



Stellite hard-faced both on seat and disc allows to keep valve reliable without damages for many life cycles.



The stop check design has a connecting pipe from body cavity to downstream side. The differential pressure that occurs stabilizes the disc position avoiding chattering and vibrations up and down along the stem axis.



BUTT WELDING ENDS ACCORDING TO ASME B16.25

DESIGN ACCORDING TO ASME B16.34

END TO END ACCORDING TO ASME B16.10 SHORT PATTERN

DESCRIPTION		MATERIAL SPECIFICATION			
		ASTM A105N	ASTM A182 F11	ASTM A182 F22	ASTM A182 F91
1	WHEEL NUT	CARBON STEEL			
2	NAMEPLATE	AISI 316			
5	GLAND NUT	ASTM A194 2H	ASTM A194 Gr.7		
6	GLAND FLANGE	ASTM A105			
7	GLAND STUD	ASTM A193 B7	ASTM A193 B16		
8	GLAND	ASTM A479 410			
9	PACKING	GRAPHITE			
12	STEM	ASTM A479 410			ASTM A479 XM-19
13	BONNET	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A739 B22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
15	SEAT RING	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A739 B22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
19	DISC PLUG	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A182 F22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
18	BODY	ASTM A105N	ASTM A182 F11	ASTM A182 F22 Cl.3	ASTM A182 F91
35	GASKET	S.S. 316			
37	PILLAR NUT	ASTM A194 2H			
3	HANDWHEEL	CARBON STEEL			
54	YOKE FLANGE	ASTM A105			AISI 316
85	SCREWED RING	ASTM A479 410			ASTM A479 XM-19
87	PILLAR	ASTM A105			
4	BUSHING	AISI 416			
1052	COUPLING FLANGE	ASTM A105			
2039	BONNET BOLTS	ASTM A193 B8			
1075	SEGMENTED RING	ASTM A182 F6			

Weight figures are relevant to BW end valves. For dimensions and weights in larger sizes or flanged valves consult the factory.
Dimensions and weights are subject to change without notice.

CLASS 900

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
½"	110	4.33	43	1.69	250	9.84	10	23
¾"	180	7.09	60	2.36	290	11.42	16	36
1"	155	6.10	60	2.36	310	12.20	18	40
1 ½"	235	9.25	70	2.76	340	13.39	27	60
2"	368	14.49	90	3.54	400	15.75	32	71

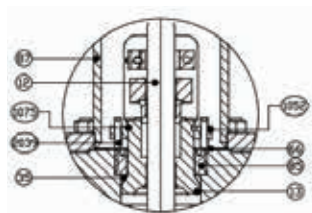
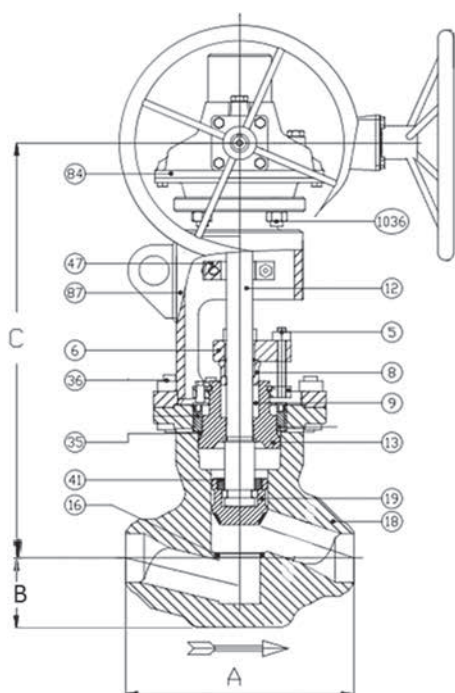
CLASS 1500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
½"	110	4.33	43	1.69	250	9.84	10	23
¾"	180	7.09	60	2.36	290	11.42	16	36
1"	155	6.10	60	2.36	310	12.20	18	40
1 ½"	235	9.25	70	2.76	340	13.39	27	60
2"	216	8.50	70	2.76	360	14.17	35	78

CLASS 2500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
½"	150	5.91	56	2.20	280	11.02	16	36
¾"	150	5.91	56	2.20	290	11.42	17	38
1"	170	6.69	70	2.76	340	13.39	25	56
1 ½"	235	9.25	70	2.76	345	13.58	27	60
2"	279	10.98	75	2.95	450	17.72	87	192

One single piece - closed die forging | Threaded body with pillars



BUTT WELDING ENDS ACCORDING TO ASME B16.25

DESIGN ACCORDING TO ASME B16.34

END TO END ACCORDING TO ASME B16.10 SHORT PATTERN

DESCRIPTION		MATERIAL SPECIFICATION			
		ASTM A105N	ASTM A182 F11	ASTM A182 F22	ASTM A182 F91
2	NAMEPLATE	AISI 316			
5	GLAND NUT	ASTM A194 2H	ASTM A194 Gr.7		
6	GLAND FLANGE	ASTM A105			
7	GLAND STUD	ASTM A193 B7	ASTM A193 B16		
8	GLAND	ASTM A479 410			
9	PACKING	GRAPHITE			
12	STEM	ASTM A479 410			ASTM A479 XM-19
13	BONNET	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A739 B22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
16	INTEGRAL SEAT	STELLITE Gr.6			
19	DISC PLUG	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A182 F22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
18	BODY	ASTM A105N	ASTM A182 F11	ASTM A182 F22 Cl.3	ASTM A182 F91
35	GASKET	GRAPHITE + SS.316			
36	BODY BOLTS	ASTM A193 B7 / 2H	ASTM A193 B16 / Gr.7		
41	SCREWED DISC RING	ASTM A479 410			
47	INDICATOR	ASTM A105			AISI 316
85	SCREWED RING	ASTM A182 F6a CL.2			ASTM A182 FXM-19
66	WASHER	ASTM A516 Gr.70			
84	GEAR	DUCTILE IRON			
87	YOKE	ASTM A105			
1036	GEAR BOLTS	ASTM A193 B7 / ASTM A194 2H			
1052	COUPLING FLANGE	ASTM A105			
1075	SEGMENTED RING	ASTM A182 F6			

Weight figures are relevant to BW end valves. For dimensions and weights in larger sizes or flanged valves consult the factory.
Dimensions and weights are subject to change without notice.

CLASS 900

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
2 ½"	254	10	100	3.94	480	18.90	50	111
3"	305	12.01	125	4.92	580	22.83	85	188
4"	356	14.02	150	5.91	600	23.62	120	265

CLASS 1500

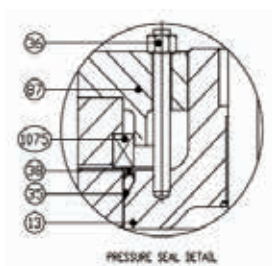
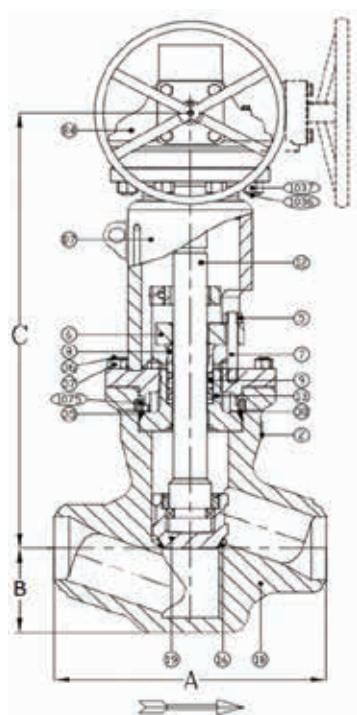
SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
2 ½"	254	10	100	3.94	480	18.90	50	111
3"	305	12.01	95	3.74	565	22.24	92	203
4"	406	15.98	140	5.51	745	29.33	125	276

CLASS 2500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
2 ½"	330	12.99	95	3.74	470	18.5	98	217
3"	368	14.49	105	4.13	590	23.23	170	375
4"	457	17.99	120	4.72	795	31.3	140	309

One single piece - closed die forging | Threaded body with yoke





BUTT WELDING ENDS ACCORDING TO ASME B16.25

DESIGN ACCORDING TO ASME B16.34

END TO END ACCORDING TO ASME B16.10 SHORT PATTERN

DESCRIPTION		MATERIAL SPECIFICATION			
		ASTM A105N	ASTM A182 F11	ASTM A182 F22	ASTM A182 F91
2	NAMEPLATE	AISI 316			
5	GLAND NUT	ASTM A194 2H	ASTM A194 Gr.7		
6	GLAND FLANGE	ASTM A105			
7	GLAND STUD	ASTM A193 B7	ASTM A194 B16		
8	GLAND	ASTM A479 410			
9	PACKING	GRAPHITE			
12	STEM	ASTM A479 410			ASTM A479 XM-19
13	BONNET	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A739 B22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
16	INTEGRAL SEAT	STELLITE Gr.6			
19	DISC PLUG	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A182 F22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
18	BODY	ASTM A105N	ASTM A182 F11	ASTM A182 F22 Cl.3	ASTM A182 F91
35	GASKET	GRAPHITE + SS.316			
36	BODY BOLTS	ASTM A193 B7 / 2H	ASTM A193 B16 / Gr.7		
47	INDICATOR	ASTM A105			F316
37	STUD NUTS	ASTM A194 2H	ASTM A193 B16 / Gr.7		
38	SPACER RING	ASTM A105			F316
84	GEAR	DUCTILE IRON			
87	YOKE	ASTM A105			
1036	GEAR BOLTS	ASTM A193 B7			
1037	GEAR STUD NUTS	ASTM A194 2H			
1075	SEGMENTED RING	ASTM A182 F6a CL.2			ASTM A182 FXM-19

Weight figures are relevant to BW end valves. For dimensions and weights in larger sizes or flanged valves consult the factory.
Dimensions and weights are subject to change without notice.

CLASS 900

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
6"	508	20	190	7.48	700	27.56	250	552
8"	660	25.98	240	9.45	1060	41.73	430	948

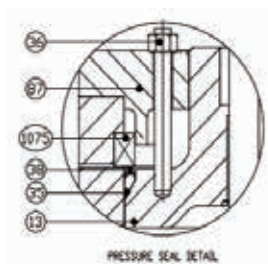
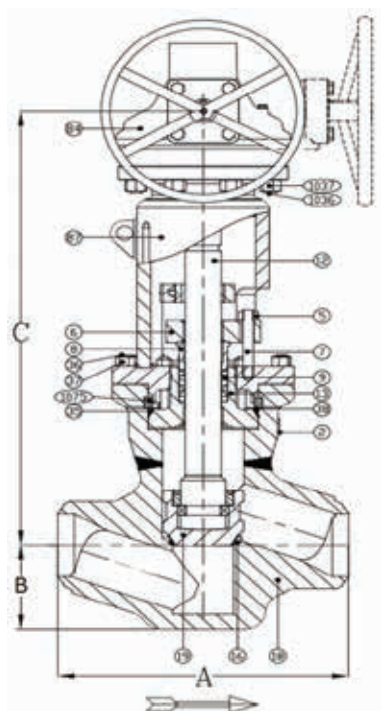
CLASS 1500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
6"	559	22.01	190	7.48	895	35.24	275	607
8"	771	27.99	230	9.06	1190	46.85	510	1125

CLASS 2500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
6"	610	24.02	190	7.48	950	37.40	310	684
8"	-	-	-	-	-	-	-	-

One single piece - closed die forging | Segmented ring design



BUTT WELDING ENDS ACCORDING TO ASME B16.25

DESIGN ACCORDING TO ASME B16.34

END TO END ACCORDING TO ASME B16.10 SHORT PATTERN

DESCRIPTION		MATERIAL SPECIFICATION			
		ASTM A105N	ASTM A182 F11	ASTM A182 F22	ASTM A182 F91
2	NAMEPLATE	AISI 316			
5	GLAND NUT	ASTM A194 2H	ASTM A194 Gr.7		
6	GLAND FLANGE	ASTM A105			
7	GLAND STUND	ASTM A193 B7	ASTM A193 B16		
8	GLAND	ASTM A479 410			
9	PACKING	GRAPHITE			
12	STEM	ASTM A479 410			ASTM A479 XM-19
13	BONNET	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A739 B22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
16	INTEGRAL SEAT	STELLITE Gr.6			
19	DISC PLUG	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A739 F22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
18	BODY	ASTM A105N	ASTM A182 F11	ASTM A182 F22 Cl.3	ASTM A182 F91
35	GASKET	GRAPHITE + SS.316			
36	BODY BOLTS	ASTM A193 B7 / 2H	ASTM A193 B16 / Gr.7		
47	INDICATOR	ASTM A105			AISI 316
37	STUD NUTS	ASTM A194 2H	ASTM A194 Gr.7		
38	SPACER RING	ASTM A105			F316
84	GEAR	DUCTILE IRON			
87	YOKE	ASTM A105			
1036	GEAR BOLTS	ASTM A193 B7			
1037	GEAR STUD NUTS	ASTM A194 2H			
1075	SEGMENTED RING	ASTM A182 F6a CL.2			ASTM A182 FXM-19

Weight figures are relevant to BW end valves. For dimensions and weights in larger sizes or flanged valves consult the factory.
Dimensions and weights are subject to change without notice.

CLASS 900

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
8"	-	-	-	-	-	-	-	-
10"	787	30.98	290	11.42	1125	44.29	690	1522
12"	914	35.98	340	13.39	1350	53.15	910	2007
14"	991	39.02	395	15.55	1560	61.42	1080	2381
16"	1092	42.99	435	17.13	1680	66.14	1175	2591
18"	1219	47.99	505	19.88	1950	76.77	1396	3078
20"	1321	52.01	540	21.26	2100	82.68	1620	3572
24"	1549	60.98	610	24.02	2280	89.76	1968	4339

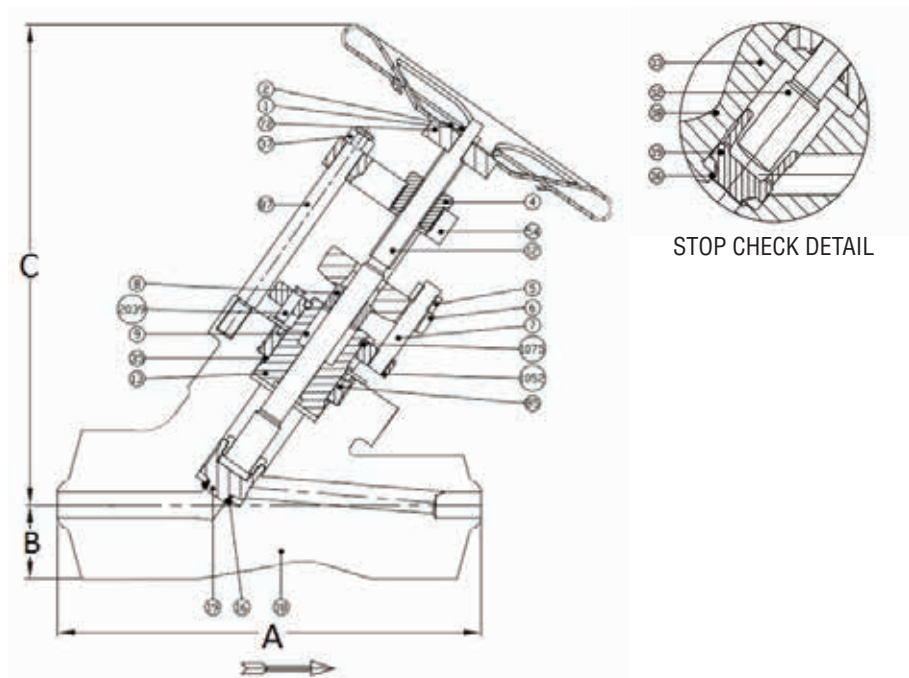
CLASS 1500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
8"	-	-	-	-	-	-	-	-
10"	864	34.02	285	11.22	1200	47.24	863	1902
12"	991	39.02	330	12.99	1410	55.51	1138	2508
14"	1067	42.01	400	15.75	1500	59.06	1350	2977
16"	1194	47.01	450	17.72	1690	66.54	1469	3239
18"	1397	55.00	495	19.49	1900	74.80	1815	4001
20"	1473	57.99	565	22.24	2080	81.89	2106	4643
24"	1676	65.98	650	25.59	2360	92.91	2558	5641

CLASS 2500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
8"	762	30.00	230	9.06	1200	47.24	630	1389
10"	914	35.98	290	11.42	1230	48.43	1078	2377
12"	1041	40.98	335	13.19	1380	54.33	1422	3135
14"	1095	43.11	410	16.14	1540	60.63	1701	3751
16"	1245	49.02	460	18.11	1670	65.75	1836	4048
18"	1397	55.00	510	20.08	1930	75.98	2359	5202
20"	1473	57.99	580	22.83	2068	81.42	2738	6036
24"	1676	65.98	670	26.38	2246	88.43	3326	7333

Two pieces welded - open die forging | Segmented ring design



BUTT WELDING ENDS ACCORDING TO ASME B16.25

DESIGN ACCORDING TO ASME B16.34

END TO END ACCORDING TO ASME B16.10 SHORT PATTERN

DESCRIPTION		MATERIAL SPECIFICATION			
		ASTM A105N	ASTM A182 F11	ASTM A182 F22	ASTM A182 F91
1	WHEEL NUT	CARBON STEEL			
2	NAMEPLATE	AISI 316			
5	GLAND NUT	ASTM A194 2H	ASTM A194 Gr.7		
6	GLAND FLANGE	ASTM A105			
7	GLAND STUD	ASTM A193 B7	ASTM A194 B16		
8	GLAND	ASTM A479 410			
9	PACKING	GRAPHITE			
12	STEM	ASTM A479 410			ASTM A479 XM-19
13	BONNET	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A739 B22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
16	INTEGRAL SEAT	STELLITE Gr.6			
19	DISC PLUG	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A182 F22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
18	BODY	ASTM A105N	ASTM A182 F11	ASTM A182 F22 Cl.3	ASTM A182 F91
35	GASKET	S.S. 316			
37	PILLAR NUT	ASTM A194 2H			ASTM A194 Gr.8
72	HANDWHEEL	CARBON STEEL			
54	YOKE FLANGE	ASTM A105			AISI 316
85	SCREWED RING	ASTM A479 410			ASTM A479 XM-19
87	PILLAR	ASTM A105			
4	BUSHING	AISI 416			
1052	COUPLING FLANGE	ASTM A105			
2039	BONNET BOLTS	ASTM A193 B8			
1075	SEGMENTED RING	ASTM A182 F6			

Weight figures are relevant to BW end valves. For dimensions and weights in larger sizes or flanged valves consult the factory.
Dimensions and weights are subject to change without notice.

CLASS 900

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
½"	110	4.33	20	0.79	149	5.87	7	16
¾"	110	4.33	20	0.79	175	6.89	9	20
1"	142	5.59	28	1.10	185	7.28	12	27
1 ½"	170	6.69	38	1.50	283	11.14	16	36
2"	368	14.49	43	1.69	350	13.78	56	124

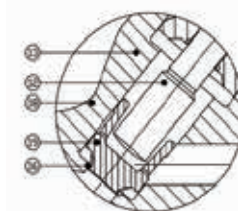
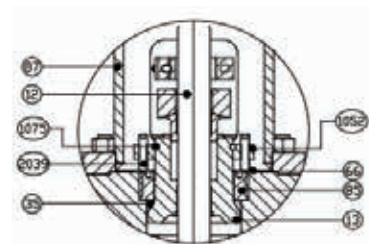
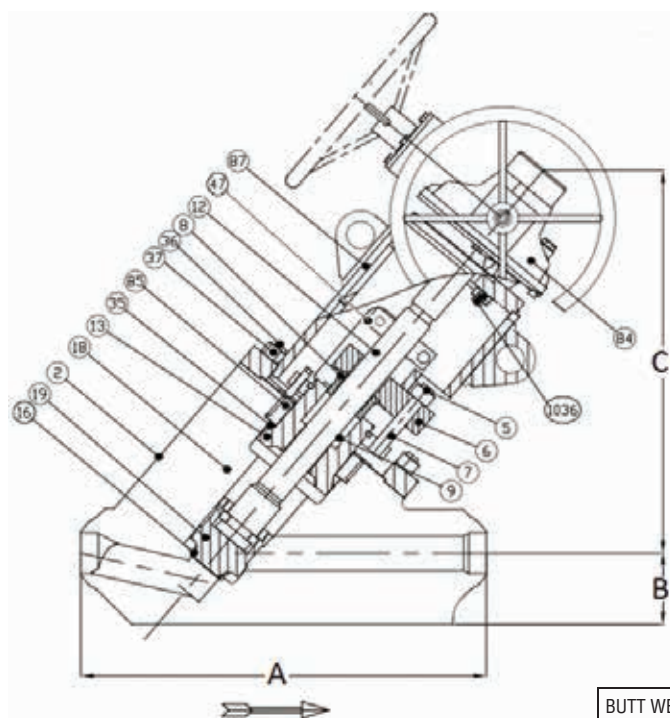
CLASS 1500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
½"	142	5.59	25	0.98	240	9.45	10	23
¾"	226	8.90	42	1.65	265	10.43	19	42
1"	254	10.00	42	1.65	305	12.01	20	45
1 ½"	305	12.01	42	1.65	360	14.17	26	58
2"	368	14.49	58	2.28	360	14.17	80	177

CLASS 2500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
½"	246	9.69	42	1.65	310	12.20	21	47
¾"	273	10.75	42	1.65	350	13.78	25	56
1"	308	12.13	33	1.30	350	13.78	27	60
1 ½"	384	15.12	45	1.77	395	15.55	34	75
2"	451	17.76	58	2.28	420	16.54	100	221

Stop Check design available | One single piece - closed die forging | Threaded body with pillars



STOP CHECK DETAIL

BUTT WELDING ENDS ACCORDING TO ASME B16.25
DESIGN ACCORDING TO ASME B16.34
END TO END ACCORDING TO ASME B16.10 SHORT PATTERN

DESCRIPTION		MATERIAL SPECIFICATION			
		ASTM A105N	ASTM A182 F11	ASTM A182 F22	ASTM A182 F91
2	NAMEPLATE	AISI 316			
5	GLAND NUT	ASTM A194 2H	ASTM A194 Gr.7		
6	GLAND FLANGE	ASTM A105			
7	GLAND STUD	ASTM A193 B7	ASTM A193 B16		
8	GLAND	ASTM A479 410			
9	PACKING	GRAPHITE			
12	STEM	ASTM A479 410			ASTM A479 XM-19
13	BONNET	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A739 B22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
16	INTEGRAL SEAT	STELLITE Gr.6			
19	DISC PLUG	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A182 F22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
18	BODY	ASTM A105N	ASTM A182 F11	ASTM A182 F22 Cl.3	ASTM A182 F91
35	GASKET	GRAPHITE + SS.316			
36	BODY BOLTS	ASTM A193 B7 / 2H	ASTM A193 B16 / Gr.7		
85	SCREWED RING	ASTM A182 F6a CL.2			ASTM A182 FXM-19
47	INDICATOR	ASTM A105			AISI 316
1075	SEGMENTED RING	ASTM A479 410			
66	WASHER	ASTM A516 Gr.70			
84	GEAR	DUCTILE IRON			
87	YOKE	ASTM A105			
2039	BONNETS BOLTS	ASTM A193 B8			
1036	GEAR BOLTS & NUTS	ASTM A193 B7 / ASTM A194 2H			
1052	COUPLING FLANGE	ASTM A105			

Weight figures are relevant to BW end valves. For dimensions and weights in larger sizes or flanged valves consult the factory.
Dimensions and weights are subject to change without notice.

CLASS 900

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
2 ½"	368	14.49	53	2.09	420	16.54	82	181
3"	381	15.00	62	2.44	510	20.08	110	243
4"	457	17.99	82	3.23	550	21.65	340	750

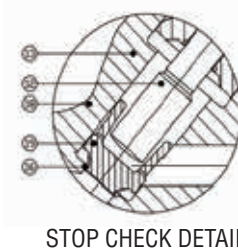
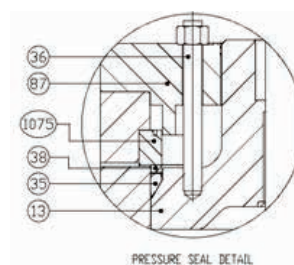
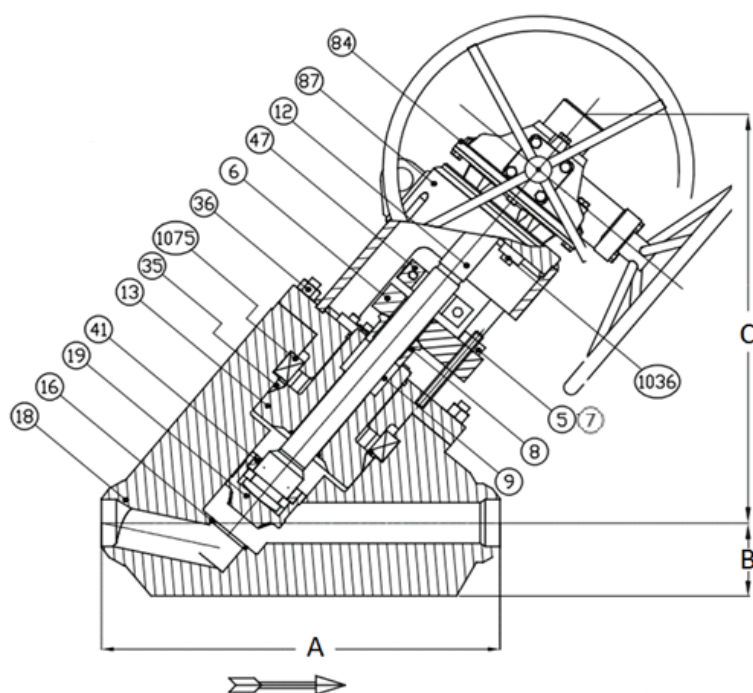
CLASS 1500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
2 ½"	384	15.12	62	2.44	430	16.93	106	234
3"	470	18.50	68	2.68	540	21.26	130	287
4"	546	21.50	90	3.54	645	25.39	190	419

CLASS 2500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
2 ½"	508	20.00	76	2.99	454	17.87	146	322
3"	578	22.76	110	4.33	540	21.26	170	375
4"	-	-	-	-	-	-	-	-

Stop Check design available | One single piece - closed die forging | Threaded body with yoke



BUTT WELDING ENDS ACCORDING TO ASME B16.25
 DESIGN ACCORDING TO ASME B16.34
 END TO END ACCORDING TO ASME B16.10 SHORT PATTERN

DESCRIPTION		MATERIAL SPECIFICATION			
		ASTM A105N	ASTM A182 F11	ASTM A182 F22	ASTM A182 F91
2	NAMEPLATE	AISI 316			
5	GLAND NUT	ASTM A194 2H	ASTM A194 Gr.7		
6	GLAND FLANGE	ASTM A105			
7	GLAND STUD	ASTM A193 B7	ASTM A193 B16		
8	GLAND	ASTM A479 410			
9	PACKING	GRAPHITE			
12	STEM	ASTM A479 410			ASTM A479 XM-19
13	BONNET	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A739 B22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
16	INTEGRAL SEAT	STELLITE Gr.6			
19	DISC PLUG	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A182 F22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
18	BODY	ASTM A105N	ASTM A182 F11	ASTM A182 F22 Cl.3	ASTM A182 F91
35	GASKET	GRAPHITE + SS.316			
36/37	BODY BOLTS	ASTM A193 B7 / 2H	ASTM A193 B16 / Gr.7		
41	SCREWED DISC RING	ASTM A479 410			
47	INDICATOR	ASTM A105			AISI 316
1075	SEGMENT RING	ASTM A182 F6a CL.2			ASTM A182 FXM-19
38	SPACER RING	ASTM A105			F316
84	GEAR	DUCTILE IRON			
87	YOKE	ASTM A105			
1036	GEAR BOLTS NUTS	ASTM A193 B7 / ASTM A194 2H			

Weight figures are relevant to BW end valves. For dimensions and weights in larger sizes or flanged valves consult the factory.
 Dimensions and weights are subject to change without notice.

CLASS 900

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
4"	-	-	-	-	-	-	-	-
6"	508	20.00	122	4.80	700	27.56	410	904
8"	660	25.98	163	6.40	830	32.68	760	1676
10"	787	30.98	203	8.00	1020	40.16	950	2095
12"	914	35.98	244	9.60	1150	45.28	1290	2844
14"	991	39.02	284	11.20	1280	50.39	1560	3440
16"	1092	42.99	325	12.80	1400	55.12	2020	4454
18"	1219	47.99	366	14.40	1530	60.24	2900	6394
20"	1321	52.01	406	16.00	1700	66.93	3180	7011
24"	1549	60.98	488	19.20	1850	72.83	3750	8268

CLASS 1500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
4"	-	-	-	-	-	-	-	-
6"	559	22.01	152	6	630	24.80	430	948
8"	711	27.99	203	8	810	31.89	920	2029
10"	864	34.02	254	10	930	36.61	1110	2448
12"	991	39.02	305	12	1200	47.24	1620	3572
14"	1067	42.01	356	14	1320	51.97	1780	3925
16"	1194	47.01	406	16	1450	57.09	2450	5402
18"	1346	52.99	457	18	1560	61.42	3600	7937
20"	1473	57.99	508	20	1680	66.14	3960	8731
24"	1943	76.50	610	24	1830	72.05	4760	10494

CLASS 2500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
4"	673	26.50	125	4.92	690	27.17	550	1213
6"	610	24.02	183	7.20	650	25.59	605	1334
8"	762	30.00	244	9.60	850	33.46	1120	2470
10"	914	35.98	305	12.00	970	38.19	1360	2999
12"	1041	40.98	366	14.40	1250	49.21	2280	5027
14"	1118	44.02	427	16.80	1380	54.33	2425	5347
16"	1245	49.02	488	19.20	1550	61.02	3490	7695
18"	1397	55.00	549	21.60	1650	64.96	4300	9480
20"	1537	60.51	610	24.00	1730	68.11	5120	11288
24"	1994	78.50	732	28.80	1990	78.35	6950	15323

Stop Check design available | One single piece - open die forging | Segmented ring design

Weight figures are relevant to BW end valves. For dimensions and weights in larger sizes or flanged valves consult the factory.
Dimensions and weights are subject to change without notice.

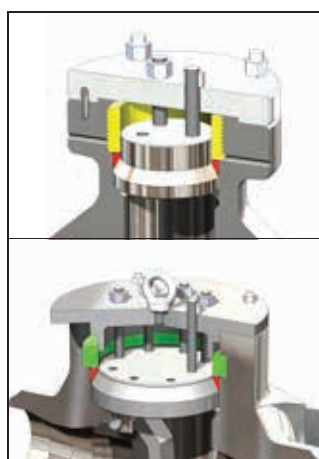


NON RETURN VALVES SWING & TILTING CHECK VALVES



CHECK

	SWING			TILTING		
	#900	#1500	#2500	#900	#1500	#2500
½"						
¾"						
1"						
1 ½"						
2"						
2 ½"						
3"						
4"						
6"						
8"						
10"						
12"						
14"						
16"						
18"						
20"						
24"						



CHECK
TB - Threaded Body one forged piece
SR - Segmented ring one forged piece

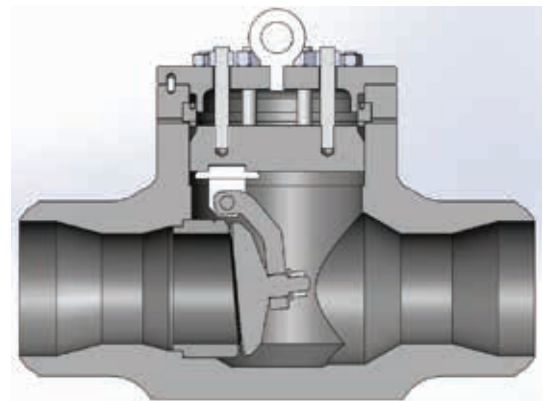
NON RETURN VALVES SWING & TILTING CHECK VALVES

Body Bonnet Construction	Pressure Seal
Body Feature	Forged closed die or open die
Body Assembly	1 integral or 2 piece with full penetration weld
ASME Class	900, 1500, 2500, 4500 details available on request
Bore Construction	Full Bore According to ASME B16.34
Face to Face	According to ASME B16.10 Short Pattern
Valve Ends	Butt Weld according to ASME B16.25. Flanged valves details available on request
Disc Design	Swing Disc and Tilting Disc Type - Balanced

SWING CHECK

Seat – obturator surface contact is 4,75° inclined to have perfect bubbletight sealing.

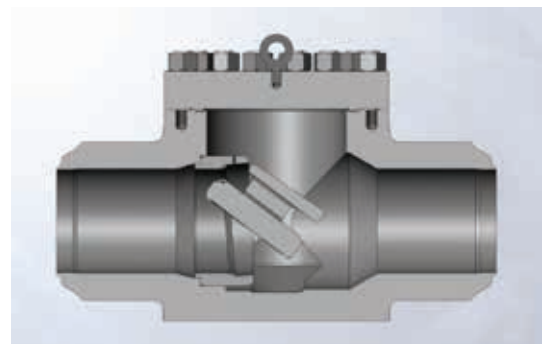
Obturator and its arm lever are connected and free to move around the hinge pin to close by weight itself when flow is missing.

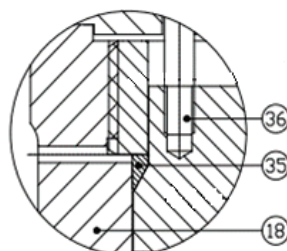
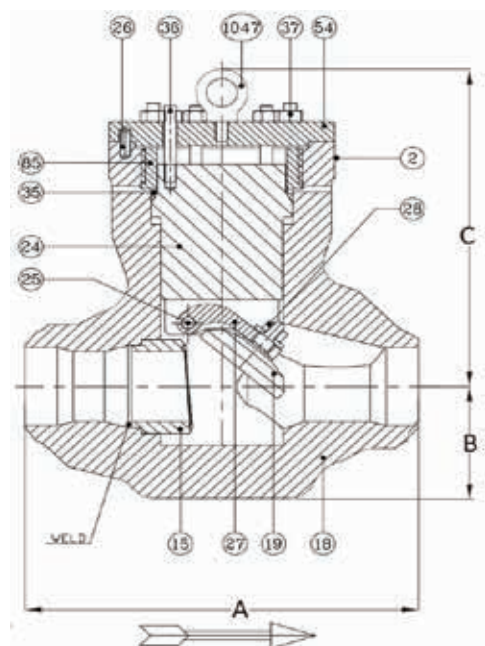


TILTING DISC CHECK

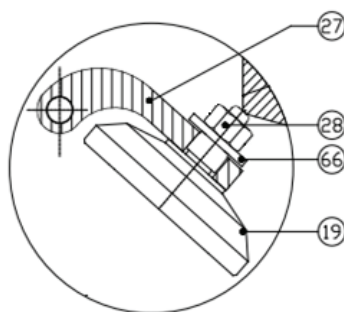
Seat – obturator surface contact is 5° inclined to have perfect bubble sealing.

Obturator design include detailed rotation and centre of gravity analysis. The valve is designed to close as quickly as possible, minimizing loud, damaging slamming and vibration noises caused by high-velocity reverse flow in high-pressure and high-temperature applications.





PRESSURE SEAL DETAIL



BUTT WELDING ENDS ACCORDING TO ASME B16.25

DESIGN ACCORDING TO ASME B16.34

END TO END ACCORDING TO ASME B16.10 SHORT PATTERN

DESCRIPTION		MATERIAL SPECIFICATION			
		ASTM A105N	ASTM A182 F11	ASTM A182 F22	ASTM A182 F91
2	NAMEPLATE	AISI 316			
1047	EYE BOLT	STAINLESS STEEL			
26	PIN	ASTM A105			
27	ARM DISC LEVER	ASTM A105N			ASTM A739 B22
25	HINGE PIN	ASTM A479 410			ASTM A479 316
24	BONNET	ASTM A105N	ASTM A182 F11	ASTM A739 F22	ASTM A182 F91
15	SEAT RING	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A739 B22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
19	DISC	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A739 B22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
18	BODY	ASTM A105N	ASTM A182 F11	ASTM A182 F22 Cl.3	ASTM A182 F91
35	GASKET	GRAPHITE + SS.316			
66	WASHER	AISI 316			
37	STUD NUT	ASTM A194 2H	ASTM A194 Gr.7		
36	BOLTS	ASTM A193 B7	ASTM A193 B16		
85	SCREWED RING	ASTM A182 F6a CL.2			ASTM A182 FXM-19
28	DISC BOLT	ASTM A193 B8			
54	COUPLING FLANGE	ASTM A105			

Weight figures are relevant to BW end valves. For dimensions and weights in larger sizes or flanged valves consult the factory.
Dimensions and weights are subject to change without notice.

CLASS 900

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
½"	216	8.50	50	1.97	140	5.51	13	29
¾"	229	9.02	50	1.97	150	5.91	14	31
1"	254	10.00	60	2.36	170	6.69	16	36
1 ½"	305	12.01	60	2.36	180	7.09	20	45
2"	368	14.49	70	2.76	180	7.09	30	67
2 ½"	254	10.00	85	3.35	205	8.07	43	95
3"	305	12.01	95	3.74	225	8.86	53	117
4"	356	14.02	120	4.72	235	9.25	80	177

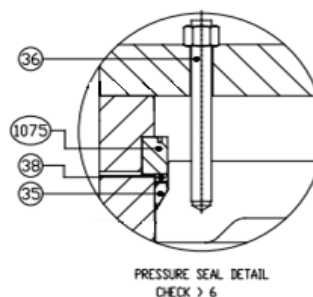
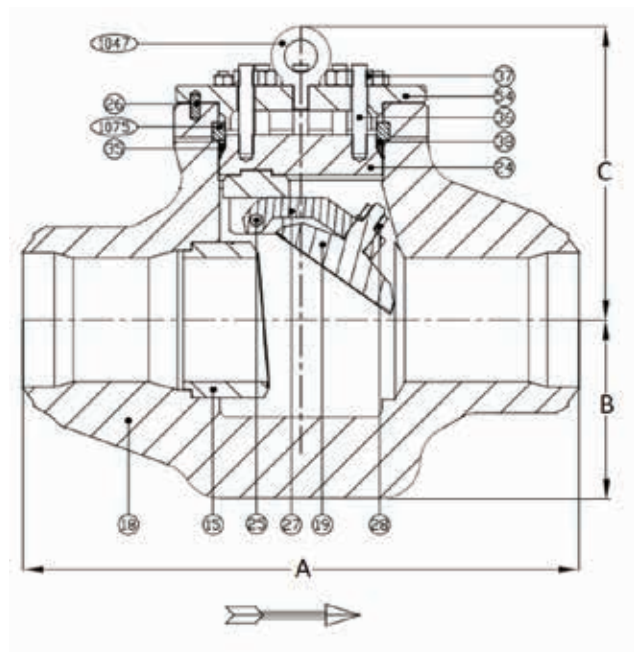
CLASS 1500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
½"	216	8.50	50	1.97	140	5.51	15	34
¾"	229	9.02	50	1.97	150	5.91	15	34
1"	254	10.00	60	2.36	170	6.69	16	36
1 ½"	305	12.01	60	2.36	180	7.09	20	45
2"	216	8.50	70	2.76	190	7.48	35	78
2 ½"	254	10.00	85	3.35	235	9.25	45	100
3"	305	12.01	95	3.74	250	9.84	55	122
4"	406	15.98	120	4.72	260	10.24	90	199

CLASS 2500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
½"	264	10.39	55	2.17	150	5.91	18	40
¾"	273	10.75	60	2.36	167	6.57	18	40
1"	308	12.13	60	2.36	167	6.57	19	42
1 ½"	384	15.12	68	2.68	193	7.60	33	73
2"	279	10.98	75	2.95	205	8.07	40	89
2 ½"	330	12.99	85	3.35	250	9.84	56	124
3"	368	14.49	95	3.74	275	10.83	65	144
4"	457	17.99	150	5.9	320	12.60	120	265

One single piece - closed die forging | Threaded body design



BUTT WELDING ENDS ACCORDING TO ASME B16.25

DESIGN ACCORDING TO ASME B16.34

END TO END ACCORDING TO ASME B16.10 SHORT PATTERN

DESCRIPTION		MATERIAL SPECIFICATION			
		ASTM A105N	ASTM A182 F11	ASTM A182 F22	ASTM A182 F91
2	NAMEPLATE	AISI 316			
1047	EYE BOLT	STAINLESS STEEL			
26	PIN	ASTM A105			
27	ARM DISC LEVER	ASTM A105N			ASTM A739 B22
25	HINGE PIN	ASTM A479 410			ASTM A479 316
24	BONNET	ASTM A105N	ASTM A182 F11	ASTM A739 F22	ASTM A182 F91
15	SEAT RING	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A739 B22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
19	DISC	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A739 B22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
18	BODY	ASTM A105N	ASTM A182 F11	ASTM A182 F22 Cl.3	ASTM A182 F91
35	GASKET	GRAPHITE + SS.316			
38	WASHER	AISI 316			
37	STUD NUT	ASTM A194 2H	ASTM A194 Gr.7		
36	BOLTS	ASTM A193 B7	ASTM A193 B16		
1075	SEGMENT RING	ASTM A182 F6a CL.2			ASTM A182 FXM-19
28	DISC BOLT	ASTM A193 B8			
54	COUPLING FLANGE	ASTM A105			

Weight figures are relevant to BW end valves. For dimensions and weights in larger sizes or flanged valves consult the factory.
Dimensions and weights are subject to change without notice.

CLASS 900

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
6"	508	20.00	135	5.31	340	13.39	160	353
8"	660	25.98	230	9.06	360	14.17	300	662
10"	787	30.98	260	10.24	440	17.32	530	1169
12"	914	35.98	305	12.01	480	18.90	735	1621
14"	991	39.02	310	12.20	530	20.87	1020	2249
16"	1092	42.99	320	12.60	575	22.64	1630	3594
18"	1219	47.99	370	14.57	550	21.65	1780	3925
20"	1321	52.01	410	16.14	585	23.03	1940	4277
24"	1549	60.98	500	19.69	610	24.02	2200	4851

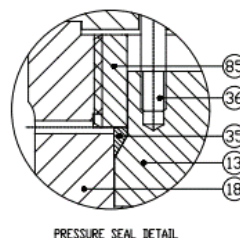
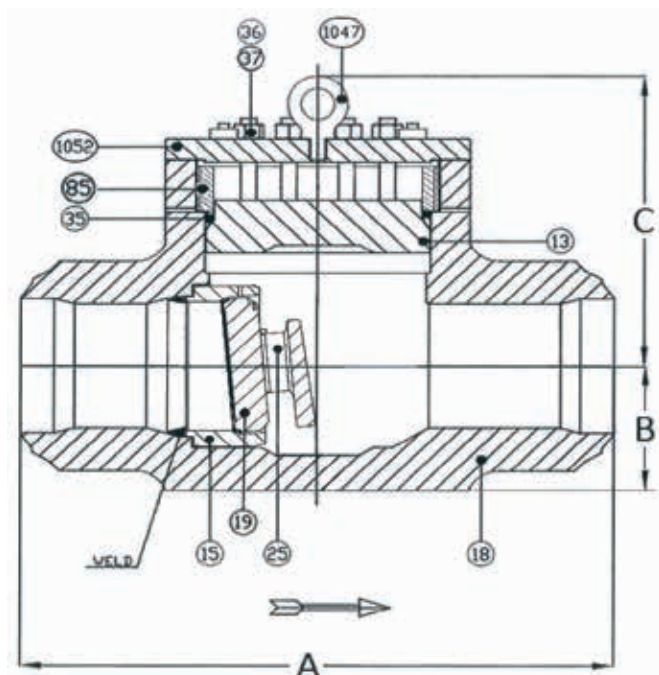
CLASS 1500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
6"	559	22.01	140	5.51	350	13.78	182	402
8"	711	27.99	230	9.06	360	14.17	340	750
10"	864	34.02	275	10.83	450	17.72	550	1213
12"	991	39.02	295	11.61	510	20.08	785	1731
14"	1067	42.01	310	12.20	550	21.65	1460	3219
16"	1194	47.01	320	12.60	580	22.83	1650	3638
18"	1537	60.51	375	14.76	600	23.62	1830	4035
20"	1664	65.51	420	16.54	625	24.61	2060	4542
24"	1943	76.50	530	20.87	700	27.56	2340	5159

CLASS 2500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
6"	610	24.02	165	6.50	380	14.96	365	805
8"	762	30.00	175	6.89	425	16.73	655	1445
10"	914	35.98	270	10.63	480	18.90	840	1852
12"	1041	40.98	300	11.81	550	21.65	1250	2756
14"	1118	44.02	310	12.20	580	22.83	1400	3087
16"	1245	49.02	320	12.60	600	23.62	1700	3748
18"	1397	55.00	370	14.57	610	24.02	2000	4410
20"	1319	51.93	500	19.69	650	25.59	2400	5292
24"	1320	51.97	650	25.59	760	29.92	2940	6482

One single piece - open die forging | Segmented ring design



BUTT WELDING ENDS ACCORDING TO ASME B16.25
DESIGN ACCORDING TO ASME B16.34
END TO END ACCORDING TO ASME B16.10 SHORT PATTERN

DESCRIPTION		MATERIAL SPECIFICATION			
		ASTM A105N	ASTM A182 F11	ASTM A182 F22	ASTM A182 F91
2	NAMEPLATE	AISI 316			
1047	EYE BOLT	STAINLESS STEEL			
25	HINGE PIN	ASTM A479 410			ASTM A479 316
24	BONNET	ASTM A105N	ASTM A182 F11	ASTM A739 F22	ASTM A182 F91
15	SEAT RING	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A739 B22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
19	DISC	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A739 B22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
18	BODY	ASTM A105N	ASTM A182 F11	ASTM A182 F22 Cl.3	ASTM A182 F91
35	GASKET	GRAPHITE + SS.316			
37	STUD NUT	ASTM A194 2H	ASTM A194 Gr.7		
36	BOLTS	ASTM A193 B7	ASTM A193 B16		
85	SCREWED RING	ASTM A182 F6a CL.2			ASTM A182 FXM-19
54	COUPLING FLANGE	ASTM A105			

Weight figures are relevant to BW end valves. For dimensions and weights in larger sizes or flanged valves consult the factory.
Dimensions and weights are subject to change without notice.

CLASS 900

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
½"	216	8.50	50	1.97	140	5.51	13	29
¾"	229	9.02	50	1.97	150	5.91	14	31
1"	254	10.00	60	2.36	170	6.69	16	36
1 ½"	305	12.01	60	2.36	180	7.09	20	45
2"	254	10.00	70	2.76	190	7.48	35	78
2 ½"	254	10.00	85	3.35	205	8.07	43	95
3"	305	12.01	95	3.74	220	8.66	61	135
4"	356	14.02	120	4.72	230	9.06	92	203

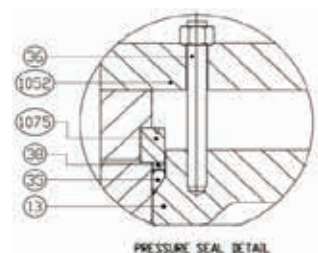
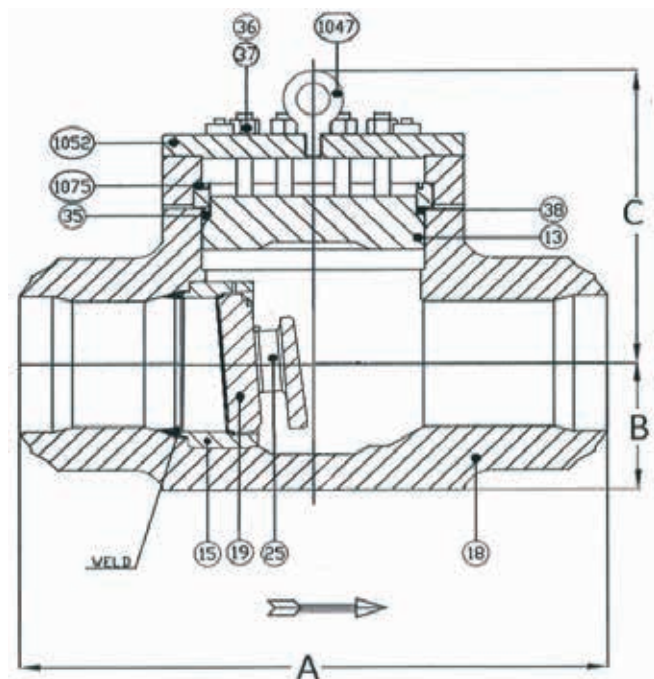
CLASS 1500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
½"	216	8.50	50	1.97	140	5.51	15	34
¾"	229	9.02	50	1.97	150	5.91	15	34
1"	254	10.00	60	2.36	170	6.69	16	36
1 ½"	305	12.01	60	2.36	180	7.09	20	45
2"	216	8.50	70	2.76	180	7.09	41	91
2 ½"	254	10.00	85	3.35	190	7.48	45	100
3"	305	12.01	95	3.74	200	7.87	64	142
4"	406	15.98	120	4.72	240	9.45	104	230

CLASS 2500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
½"	264	10.39	55	2.17	150	5.91	18	40
¾"	273	10.75	60	2.36	167	6.57	18	40
1"	308	12.13	60	2.36	167	6.57	19	42
1 ½"	384	15.12	68	2.68	193	7.60	33	73
2"	279	10.98	75	2.95	200	7.87	46	102
2 ½"	330	12.99	85	3.35	250	9.84	56	124
3"	368	14.49	95	3.74	270	10.63	75	166
4"	457	17.99	120	4.72	315	12.40	120	265

One single piece - closed die forging | Threaded body design



BUTT WELDING ENDS ACCORDING TO ASME B16.25
DESIGN ACCORDING TO ASME B16.34
END TO END ACCORDING TO ASME B16.10 SHORT PATTERN

DESCRIPTION		MATERIAL SPECIFICATION			
		ASTM A105N	ASTM A182 F11	ASTM A182 F22	ASTM A182 F91
2	NAMEPLATE	AISI 316			
1047	EYE BOLT	STAINLESS STEEL			
25	HINGE PIN	ASTM A479 410			ASTM A479 316
24	BONNET	ASTM A105N	ASTM A182 F11	ASTM A739 F22	ASTM A182 F91
15	SEAT RING	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A739 B22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
19	DISC	ASTM A105N+STELLITE Gr.6	ASTM A182 F11+STELLITE Gr.6	ASTM A739 B22+STELLITE Gr.6	ASTM A182 F91+STELLITE Gr.6
18	BODY	ASTM A105N	ASTM A182 F11	ASTM A182 F22 Cl.3	ASTM A182 F91
35	GASKET	GRAPHITE + SS.316			
38	WASHER	AISI 316			
37	STUD NUT	ASTM A194 2H	ASTM A194 Gr.7		
36	BOLTS	ASTM A193 B7	ASTM A193 B16		
1075	SEGMENT RING	ASTM A182 F6a CL.2			ASTM A182 FXM-19
54	COUPLING FLANGE	ASTM A105			

Weight figures are relevant to BW end valves. For dimensions and weights in larger sizes or flanged valves consult the factory.
Dimensions and weights are subject to change without notice.

CLASS 900

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
6"	508	20.00	135	5.31	335	13.19	225	497
8"	660	25.98	230	9.06	355	13.98	345	761
10"	787	30.98	260	10.24	435	17.13	610	1345
12"	914	35.98	305	12.01	475	18.70	846	1866
14"	991	39.02	310	12.20	525	20.67	1173	2587
16"	1092	42.99	320	12.60	570	22.44	1875	4134
18"	1219	47.99	502	19.76	600	23.62	1920	4233
20"	1321	52.01	558	21.97	610	24.02	2300	5071
24"	1549	60.98	670	26.38	720	28.35	2910	6416

CLASS 1500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
6"	559	22.01	140	5.51	305	12.01	220	486
8"	711	27.99	230	9.06	375	14.76	395	871
10"	864	34.02	275	10.83	445	17.52	633	1396
12"	991	39.02	295	11.61	500	19.69	903	1991
14"	1067	42.01	310	12.20	545	21.46	1679	3702
16"	1194	47.01	320	12.60	565	22.24	1920	4233
18"	1537	60.51	500	19.69	620	24.41	2050	4520
20"	1664	65.51	560	22.05	620	24.41	2500	5512
24"	1943	76.50	700	27.56	750	29.53	3300	7276

CLASS 2500

SIZE	A		B		C		W	
	mm	Inch	mm	Inch	mm	Inch	Kg	Lbs
6"	610	24.02	165	6.50	375	14.76	300	662
8"	762	30.00	175	6.89	420	16.54	470	1037
10"	914	35.98	270	10.63	475	18.70	705	1555
12"	1041	40.98	300	11.81	545	21.46	1438	3171
14"	1118	44.02	390	15.35	600	23.62	1823	4020
16"	1245	49.02	404	15.91	672	26.46	2060	4542
18"	1397	55.00	530	20.87	700	27.56	2380	5247
20"	1219	47.99	550	21.65	740	29.13	2900	6394
24"	1320	51.97	550	21.65	700	27.56	2740	60.41

One single piece - open die forging | Segmented ring design

Weight figures are relevant to BW end valves. For dimensions and weights in larger sizes or flanged valves consult the factory.
Dimensions and weights are subject to change without notice.



