



xanik®



**bolted
bonnet valves**

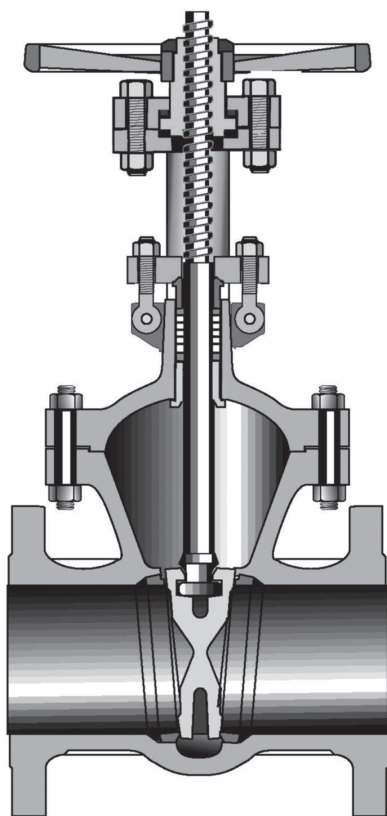


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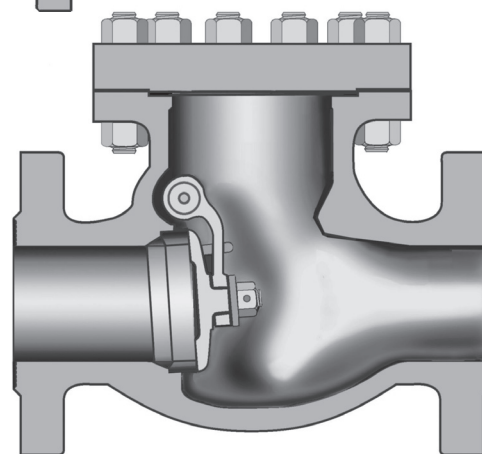
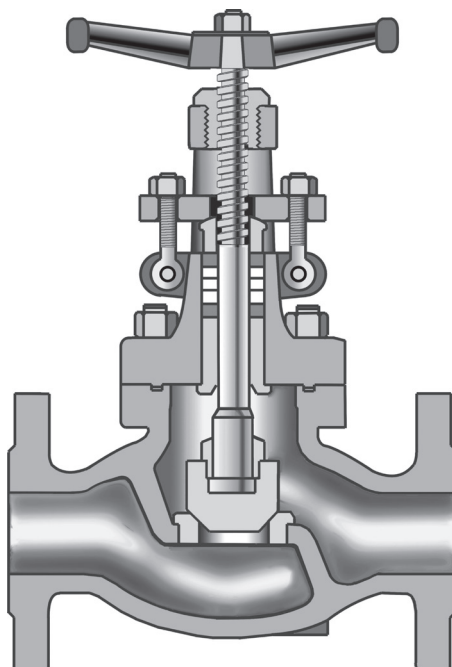
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Bolted Bonnet Valves



ASME Classes 150 - 2500



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Bolted bonnet valves

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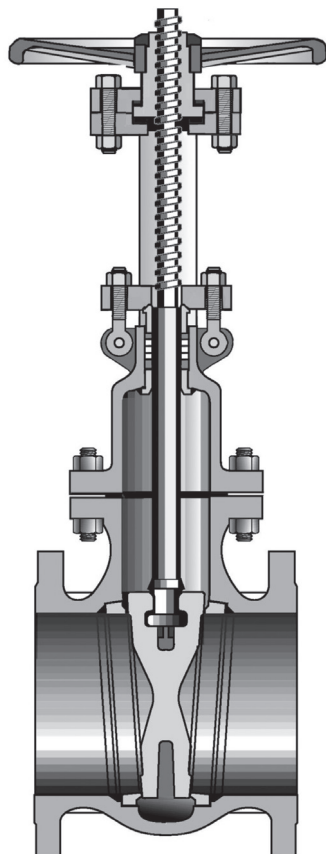
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Bolted bonnet valves index

Description	Pressure Rating	Ends	Size	Page No.
Gate Flexible Wedge (Optional Solid Wedge or Split Wedge)	Class 150	Butt Weld Ends & Flanged	1 1/2 thru 54	BB -13
	Class 300	Butt Weld Ends & Flanged	1 1/2 thru 36	BB -14
	Class 600	Butt Weld Ends & Flanged	1 1/2 thru 36	BB -15
	Class 900	Butt Weld Ends & Flanged	3 thru 24	BB -16
	Class 1500	Butt Weld Ends & Flanged	2 thru 16	BB -17
	Class 2500	Butt Weld Ends & Flanged	2 thru 12	BB -18
"T" Pattern Globe & Stop Check Valves	Class 150	Butt Weld Ends & Flanged	1 1/2 thru 20	BB -21
	Class 300	Butt Weld Ends & Flanged	1 1/2 thru 20	BB -22
	Class 600	Butt Weld Ends & Flanged	1 1/2 thru 12	BB -23
	Class 900	Butt Weld Ends & Flanged	3 thru 12	BB -24
	Class 1500	Butt Weld Ends & Flanged	2 thru 12	BB -25
	Class 2500	Butt Weld Ends & Flanged	2 thru 6	BB -26
Swing Check Valves	Class 150	Butt Weld Ends & Flanged	1 1/2 thru 36	BB -29
	Class 300	Butt Weld Ends & Flanged	1 1/2 thru 36	BB -30
	Class 600	Butt Weld Ends & Flanged	1 1/2 thru 24	BB -31
	Class 900	Butt Weld Ends & Flanged	3 thru 12	BB -32
	Class 1500	Butt Weld Ends & Flanged	2 thru 18	BB -33
	Class 2500	Butt Weld Ends & Flanged	2 thru 6	BB -34

standard components in bolted bonnet valves



COMPRESSION PACKING SYSTEMS	
From Cryogenic to 1200°F in non - oxidizing atmosphere. Limited to + 1000°F (+538°C) in oxidizing service.	Standard service for all classes Brided graphite yarn in top & bottom rings with die formed graphite intermediate rings Emmision Packing Set . For low fugitive emmisions Garlock ® 9000 EVSP or John Crane® EPS-2 System can be specified.
	For Fire safe Garlock ® Style 1303 FEP can be specified.

Cryogenic Service and Oxygen service . Limited to + 500°F (+260°C) also used for Strong Acids and Chlorine service	Goretex® GR (PTFE) OR KLINGER® PTFE 2000
--	--

GASKET SELECTION ACCORDING TO BODY MATERIAL			
Gasket Type		Depending upon application the available choises can be:	
Type	CLASS	RTJ ring, winding strip or wrapped metal	Filler Material for spiral wound gasket or corrugated metal gasket
Double jacketed gasket.	150 - 300	Mild Steel (AISI 1010)	Flexicarb (flexible graphite) PTFE Non asbestos flexite super.
Spiral wound gasket.	150 - 1500	Stainless steel 304	
Ring joint type gasket.	600 - 4500	Stainless steel 316	
		Stainless steel 304L	
		Stainless steel 316L	
		Stainless steel 347	
		Alloy 20 Monel 400	
		Titanium Nickel 200	
		Nickel 201	
		Inconel 600 Inconel 625 Inconel X - 750	
		Hastelloy B2	
		Hastelloy C - 276	
		Hastelloy C - 22	
		Incoloy 800	
		Incoloy 825	
		Duplex	
		Zirconium	
		Tantalum	
		Copper	
		Phos - Bronze	

BOLTING MATERIAL		
BODY / BONNET	BOLTS / NUTS	GLAND BOLTS OR EYE BOLTS
Carbon Steel & Low Alloy Steel	A - 193 - B7 / A - 194 - 2H	A - 193 - B7 / A - 194 - 2H
	For Sour Service: A - 193 - B7 Max Rc22 / 2H Optional :A - 193 - B7M / A - 194 - 2HM	For Sour Service: A - 193 - B7 Max Rc22 / 2H Optional A - 193 - B7M / A - 194 - 2HM
Alloy Steel Above 850 F	A - 193 - B16 / A - 194 - 7	A - 193 - B7 / A - 194 - 2H
Carbon SteelTemp. Lower than - 50 F	A - 320 - L7 / A - 194 - 4	A - 193 - B8 / A - 194 - 8Strain Hardener
CryogenicServiceTemp. Lower than - 150 F	A - 193 - B8 / A - 194 - 8Strain Hardener	A - 193 - B8 / A - 194 - 8Strain Hardener
Corrosive Service	Defined upon application	Defined upon application

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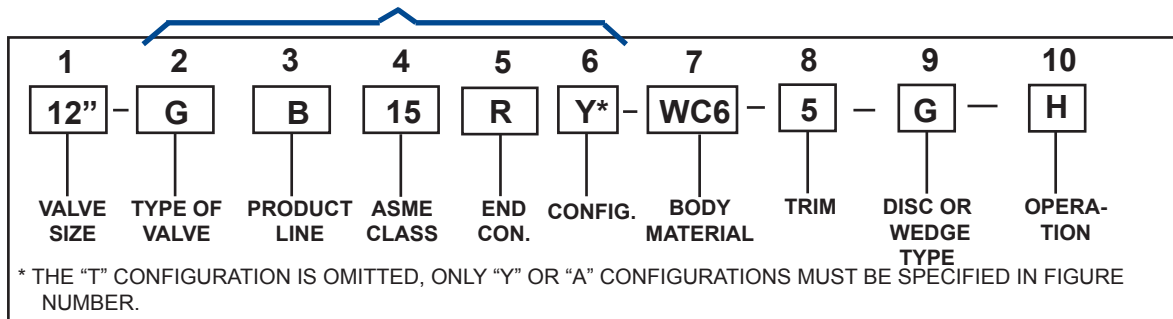
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how to order bolted bonnet valves

FIGURE NUMBER SYSTEM

BASIC FIGURE NUMBER



1. - Valve size

{1/2"}	{3"}	{16"}	{30"}
{3/4"}	{4"}	{18"}	{36"}
{1"}	{6"}	{20"}	{42"}
{1 1/4"}	{8"}	{22"}	{48"}
{1 1/2"}	{10"}	{24"}	{54"}
{2"}	{12"}	{26"}	{60"}
{2 1/2"}	{14"}	{28"}	{66"}

2. - Valve Type

{G} Gate
{B} Globe
{W} Swing Check
{S} Stop Check
{L} Lift Check
{T} Tilting Disc check

3. - Product Line

{B} Bolted Bonnet
{S} Welded Bonnet
{C} Cryogenic

4. - ASME Class

{01} 150	{09} 900	{25} 2500
{03} 300	{15} 1500	{27} 2700
{06} 600	{17} 1700	{45} 4500
{08} 800		

5. - End Connections

{R} Raised Face
{J} Ring Type Joint
{B} Butt Weld
{F} Flat Face
{W} Socket Weld
{T} Threaded

6. - Configuration

{T} "T" Pattern
{Y} "Y" Pattern
{A} Angle Pattern

7. - Body material

See pages BB-6 to BB-9 for material codification

8. - Trim Material

See pages BB-10 and BB-11 for trim codification

9. - Disc or wedge type

{F} Flexible Wedge
{R} Solid Wedge
{C} Split Wedge (Double Disc)
{S} Parallel Slide Discs Spring Loaded
{G} Guided Plug Disc (Globe)
{V} Swivel Plug Disc (Globe)
{T} Tilting Disc
{P} Piston Disc (Stop or Lift Check)
{W} Swing Check Disc (Swing Check)
{B} Ball Check Disc (Check)

10. - Operation

{H} Handwheel
{I} Impact Handwheel
{W} Chain Wheel
{E} Enclosed Bevel Gear
{B} Bevel Gear with Impact Handwheel
{U} Bevel Gear with Nut for Air Gun
{C} Bevel Gear with Chain Wheel
{M} Electric Motor Actuator
{P} Pneumatic Cylinder Linear Actuator
{D} Diaphragm Pneumatic Linear Actuator
{Y} Hydraulic Cylinder Linear Actuator
{S} Check with outside Snubber (Damped check)
{T} Bare Stem (For customer actuator installation)
{N} Without Operator (Check Valves)

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BODY MATERIAL

Material		Product form						
		Forgings			Castings			Bars
		MATERIAL No	Spec. No.	Grade	MATERIAL No.	Spec. No.	Grade	
Comercial Name	Nominal Designation							
Unalloyed Titanium Grade 2	Ti	TF2	B381	Gr 2	TC2	B367	Gr 2	Gr 2 B348
Titanium Grade 7	Ti - Pd	TF7	B381	Gr 7	TC7	B367	Gr 7	Gr 7 B348
Aluminium Bronze	Cu - Al - Ni	630	B150	C63000	958	B148	C95800	C63000 B150
Unalloyed Zirconium	Zr	702	B493	R60702	02C	B752	702C	702 B550 R60702
Zirconium w/ Stannium	Zr - Sn				04C	B752	704C	
Zirconium w/ Columbium	Zr - Cb	705	B493	R60705	05C	B752	705C	705 B550 R60705

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TRIM MATERIAL

Trim No.	Description	API 600 Trim No.	Seal Material Type	Body Seat Ring Surfaces	Disc Seat Surfaces	Stem and Other Trim Parts
1	F6	1	13Cr	13% Chromium	13% Chromium	13% Chromium Stem 200 HBN min
2	304	2	18Cr-8Ni	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
2H	304 Hardfaced	15	Co Cr - A	Stellite 6	Stellite 6	304 Stainless Steel
2S	304 with Hardfaced seat-rings	N/A	18Cr-8Ni Co Cr - A	Stellite 6	304 Stainless Steel	304 Stainless Steel
3	F310	3	25Cr - 20Ni	310 Stainless Steel	310 Stainless Steel	310 Stainless Steel
3H	310 Hardfaced	N/A	Co Cr - A	Stellite 6	Stellite 6	310 Stainless Steel
3S	310 with Hardfaced seat-rings	N/A	25Cr - 20Ni Co Cr - A	Stellite 6	310 Stainless Steel	310 Stainless Steel
5	F6 Hardfaced	5	Co Cr - A	Stellite 6	Stellite 6	13% Chromium Stem 200 HBN min
5A	F6 with Ni-Cr Alloy seat-rings	5A	Ni-Cr Alloy 350 HBN min	Ni-Cr Alloy 350 HBN min	Ni-Cr Alloy 350 HBN min	13% Chromium Stem 200 HBN min
6	F6 and Ni-Cu	6	F6 Ni-Cu	Monel	13% Chromium	13% Chromium Stem 200 HBN min
7	Hard F6	7	Hard 13Cr	13% Chromium 750 HBN min.	13% Chromium 750 HBN min.	13% Chromium Stem 200 HBN min
8	F6 with Hardfaced seat-rings	8	13 Cr Co Cr - A	Stellite 6	13% Chromium	13% Chromium Stem 200 HBN min
8A	F6 with Ni-Cr Alloy seat-rings	8A	13 Cr Ni-Cr Alloy	Ni-Cr Alloy 350 HBN min	13% Chromium	13% Chromium Stem 200 HBN min
9	Monel	9	Ni-Cu Alloy	Monel	Monel	Monel K500
9H	Monel Hardfaced	N/A	Co Cr - A	Stellite 6	Stellite 6	Monel K500
9S	Monel with Hardfaced seat-rings	11	Monel Co Cr - A	Stellite 6	Monel	Monel K500
10	316	10	16Cr-12 Ni- 2Mo	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel
10H	316 Hardfaced	16	Co Cr - A	Stellite 6	Stellite 6	316 Stainless Steel
10S	316 with Hardfaced seat-rings	12	16Cr-12 Ni- 2Mo Co Cr - A	Stellite 6	316 Stainless Steel	316 Stainless Steel
13	Alloy 20	13	19-29 Cr-Ni	Alloy 20	Alloy 20	Alloy 20
13H	Alloy 20 Hardfaced	18	Co Cr - A	Stellite 6	Stellite 6	Alloy 20
13S	Alloy 20 with Hardfaced seat-rings	14	Alloy 20 Co Cr - A	Stellite 6	Alloy 20	Alloy 20
13C	Alloy 20 Hardfaced w/ Hastelloy C	14A	Hastelloy C(350 HB)	Hastelloy C(350 HB)	Hastelloy C(350 HB)	Alloy 20
15	304L	N/A	Low C. S.S	304L Stainless Steel	304L Stainless Steel	304L Stainless Steel
15H	304L Hardfaced	N/A		Stellite 6	Stellite 6	304L Stainless Steel
15S	304L with Hardfaced seat-rings	N/A	Low C. S.S Co Cr - A	Stellite 6	304L Stainless Steel	304L Stainless Steel
16	316L	N/A	Low C 316SS	316L Stainless Steel	316L Stainless Steel	316L Stainless Steel
16H	316L Hardfaced	N/A	Low C 316SS	Stellite 6	Stellite 6	316L Stainless Steel
16S	316L with Hardfaced seat-rings	N/A	Low C 316SS Co Cr-A	Stellite 6	316L Stainless Steel	316L Stainless Steel
17	317 OR 317L	N/A	317 OR 317LSS	317 OR 317LSS	317 OR 317LSS	317 OR 317LSS
17H	317 OR 316L Hardfaced	N/A	317 OR 317LSS	Stellite 6	Stellite 6	317 OR 317LSS
17S	317 OR 317L with Hardfaced seat-rings	N/A	Low C 316SS Co Cr-A	Stellite 6	317 OR 317LSS	317 OR 317LSS

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TRIM MATERIAL

Trim No.	Nominal Trim	API Trim No.	Seal Material Type	Body Seat Surfaces	Disc Seat Surfaces	Stem and Other Trim Parts
17P	17-4PH Hardfaced	5 Mod.17-4PH Stem	Co Cr - A	Stellite 6	Stellite 6	17-4PH H1150
T9H	F6 Harfacedw / Tribaloy	5 Mod.Tribaloy Seats	CoCrNiMo	Tribaloy T900	Tribaloy T900	13% Chromium Stem 200 HBN min
T9P	17-4PH Hardfacedw / Tribaloy	5 Mod.(17-4PH & Tribaloy)	CoCrNiMo	Tribaloy T900	Tribaloy T900	17-4PH H1150
66H	Alloy 660 Hardfaced	5 Mod Alloy 660 Stem	Co Cr - A	Stellite 6	Stellite 6	A638-660
66T	Alloy 660 Hardfacedw / Tribaloy	5 Mod (660 & Tribaloy)	CoCrNiMo	Tribaloy T900	Tribaloy T900	A638-660
18	Hastelloy B2	N/A	Hastelloy B-2	Hastelloy B-2	Hastelloy B-2	Hastelloy B-2
19	Hastelloy C-276 or Hastelloy C-4	N/A	Hastelloy C-276, C-4	Hastelloy C-276, C-4	Hastelloy C-276, C-4	Hastelloy C-276, C-4
19H	Hastelloy C-276, C-4 Hardfaced	N/A	Co Cr - A	Stellite 6	Stellite 6	Hastelloy C-276, C-4
19S	Hastelloy C-276, C-4 with hardfaced seat-rings	N/A	Hastelloy C-276, C-4 Co Cr - A	Stellite 6	Hastelloy C-276, C-4	Hastelloy C-276, C-4
321	321 SS	N/A	18Cr - 10Ni - Ti	321 Stainless Steel	321 Stainless Steel	321 Stainless Steel
21H	321 Hardfaced	N/A	Co Cr - A	Stellite 6	Stellite 6	321 Stainless Steel
21S	321 with Hardfaced seat-rings	N/A	18Cr - 10Ni - Cb Co Cr - A	Stellite 6	321 Stainless Steel	321 Stainless Steel
347	347 SS	N/A	18Cr - 10Ni - Cb	347 Stainless Steel	347 Stainless Steel	347 Stainless Steel
47H	347 Hardfaced	N/A	Co Cr - A	Stellite 6	Stellite 6	347 Stainless Steel
47S	347 with Hardfaced seat-rings	N/A	18Cr - 10Ni - Cb Co Cr - A	Stellite 6	347 Stainless Steel	347 Stainless Steel
600	Inconel 600	N/A	72Ni-15Cr-8Fe	Inconel 600	Inconel 600	Inconel 600
60H	Inconel 600 Hardfaced	N/A	Co Cr - A	Stellite 6	Stellite 6	Inconel 600
625	Inconel 625	N/A	60Ni-22Cr-9Mo-3.5Cb	Inconel 625	Inconel 625	Inconel 625
62H	Inconel 625 Hardfaced	N/A	Co Cr - A	Stellite 6	Stellite 6	Inconel 625
800	Incoloy 800 or 800H	N/A	33Ni-42Fe-21Cr	Incoloy 800 or 800H	Incoloy 800 or 800H	Incoloy 800 or 800H
80H	Incoloy 800 or 800H Hardfaced	N/A	Co Cr - A	Stellite 6	Stellite 6	Incoloy 800 or 800H
825	Incoloy 825	N/A	42Ni-21.5Cr-3Mo-2.3Cu	Incoloy 825	Incoloy 825	Incoloy 825
80H	Incoloy 825 Hardfaced	N/A	Co Cr - A	Stellite 6	Stellite 6	Incoloy 825
21	Aluminum Bronze	N/A	Aluminum Bronze	Aluminum Bronze	Aluminum Bronze	Aluminum Bronze
22	Titanium	N/A	Titanium	Titanium	Titanium	Titanium
23	Duplex S.S.	N/A	Duplex S.S.	Duplex S.S.	Duplex S.S.	Duplex S.S.
23H	Duplex S.S. Hardfaced	N/A	Co Cr - A	Stellite 6	Stellite 6	Duplex S.S.
25	Super-Duplex S.S.	N/A	Super-Duplex S.S.	Super-Duplex S.S.	Super-Duplex S.S.	Super-Duplex S.S.
25H	Super-Duplex S.S. Hardfaced	N/A	Co Cr - A	Stellite 6	Stellite 6	UNS-32750
24	904L S.S.	N/A	44Fe-25Ni-21Cr-Mo	UNS - N08904	UNS - N08904	UNS - N08904
24	904L S.S. Hardfaced	N/A	Co Cr - A	Stellite 6	Stellite 6	UNS - N08904
26	Zirconium	Zirconium	Zirconium	Zirconium	Zirconium	Zirconium
ZNN	Other	Defined by user	- to specify by user -			

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Xanik® bolted bonnet gate valves are designed and manufactured to provide maximum service life and dependability. All gate valves are full ported and meet the design requirements of AP1-600 and ANSI B16.34. Valves are available in a complete range of body/bonnet materials and trims.

Swing Eye Bolts – facilitate maintenance and packing replacement

Packing Box –Designed According to MSS-SP-120, Alignment and allowances. Live load arrangements to compensate packing relaxation can be provided. Optional lantern rings and grease injectors are available.

Backseat – machined bonnet stem bushing provides back-up stem seal. Can be Hard Faced for severe applications

Body/Bonnet Joint – joint design varies with ASME class rating. Normally 600 class and higher are furnished with ring type joint (RTJ)

Body – full ported, heavy duty body with API 600 wall thickness for maximum service life. Provided with bosses for optional by-passes or drains.

Seat Rings – Renewable heavy duty, full ported rings for easy maintenance.

Handwheel – large handwheels for easy operation. Also available with gearing, motor actuators or cylinder actuators.

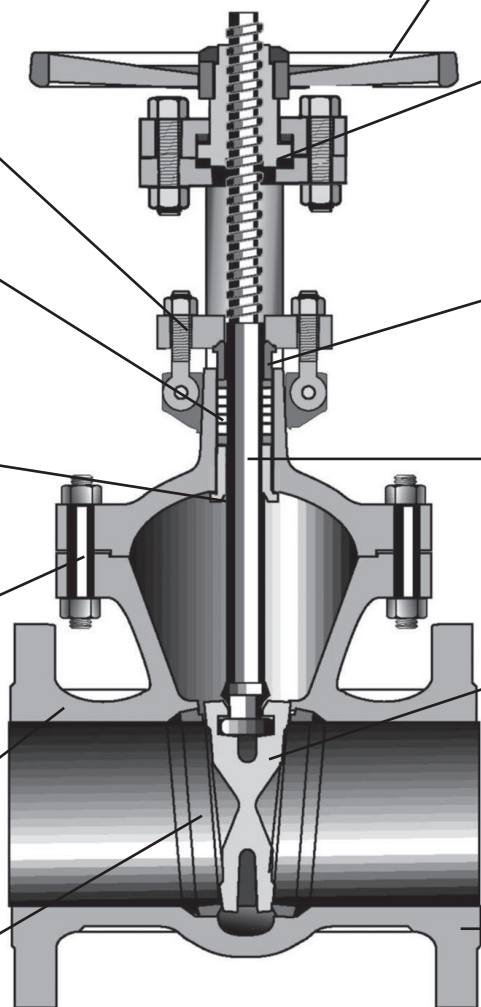
Stem Nut – Top entry design to facilitate maintenance. Needle or ball Bearings are provided to reduce operating torque. Aluminum-bronze is the standard material. Ni-resist can also be furnished.

Gland – two-piece gland and gland flange is self-aligning to eliminate stem damage and provide uniform packing compression.

Stem – **Xanik®** wedge gate valves are provided with integral T-head stems. The strength of the head is larger than the Stem threads to comply with API 591 and API 600. This design also allows the wedge to self-align.

Wedge – Fully guided wedge precision fitted to body seats to exceed API 598 requirements. Available in solid, flex split and High Performance Seats designs.

End Connections –a choice of flanged or butt weld ends. Graylock Ends can also be provided.



Body/bonnet materials include Carbon and low carbon steels, low alloy and stainless steels. For special applications they can be supplied in other grades of alloys. There's a full range of trim materials to match any service. Optional packing and gasket materials are available for a full range of service conditions. (See pages BB-4 to BB-11)

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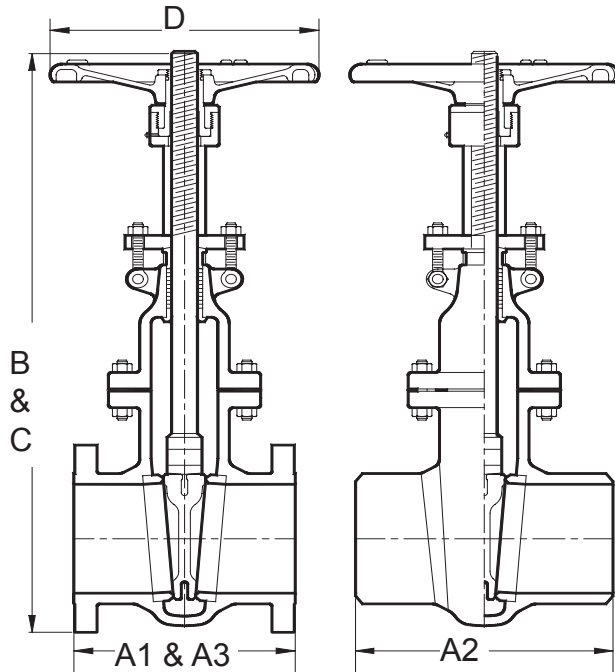


Fig. GB01R (A1)
Fig. GB01J (A3)

Fig. GB01B (A2)

Fig. No:

GB01R

Flanged RF

GB01J

Flanged RTJ

GB01B

Weld Ends

FEATURES

- Flexible wedge design.(Choice of solid or split wedge available)
- Full range of body materials.
-See page BB-6 to BB-9
- Full range of trim materials.
-See page BB-10 to BB-11
- Flanged or butt weld ends.
- OS & Y construction.
- Full port design according to ASME B16.34 Annex A.
- Renewable seat rings - seal welded.
- Meet design requirements of ASME B16.34 and API 600.
- Flanges according to ASME B16.5.
- Flanges larger than 24" according to ASME B16.47.
- Bevel Gear operators recommended on sizes 28" and larger.
- For bonnet gasket, packing material and bolting material -See page BB-4

dim	description	1.5	2	3	4	6	8	10	12	14	16	18	20	24	28	30	36	42	48	54
A1	face to face RF	in	6.5	7.0	8.0	9.0	10.5	11.5	13.0	14.0	15.0	16.0	17.0	18.0	20.0	24.0	28.0	32.0	36.0	
		mm	165	178	203	229	267	267	330	356	381	406	432	457	508	610	711	813	914	
A2	end to end BW	in	6.5	8.5	11.13	12.0	15.88	16.5	18.0	19.75	22.5	24.0	26.0	28.0	32.0	36.0	40.0	-----	-----	
		mm	165	216	283	305	403	419	457	502	572	610	660	711	813	915	1,016	-----	-----	
A3	face to face RTJ	in	7.00	7.5	8.5	9.5	11.0	12.0	13.5	14.5	15.5	16.5	17.5	18.5	20.5	-----	-----	-----	-----	
		mm	178	191	216	241	279	305	343	368	394	419	445	470	521	-----	-----	-----	-----	
B	end to top closed	in	17.2	18	20	28	33	41	48	55	59	68	74	81	96	114	129	142	163	182
		mm	437	467	503	710	843	1051	1224	1395	1503	1734	1877	2057	2438	2902	3286	3607	4128	4616
C	end to top open	in	19.4	21	23	33	40	50	60	67	73	84	92	100	120	142	159	178	205	230
		mm	493	527	586	830	1013	1280	1511	1710	1865	2140	2326	2548	3054	3613	4048	4521	5194	5836
D	handwheel	plg	8	8	8	10	14	14	20	20	24	24	30	30	36	G.O.	G.O.	G.O.	G.O.	G.O.
		mm	203	203	203	254	356	356	508	508	610	610	762	762	914	914				
	weight RF / RTJ	lbs	65	66	81.5	121	194	298	446	646	851	1213	1625	1980	3014	4861	5334	8092	11323	13950
		kg	29	30	37	55	88	135	202	293	386	550	737	898	1367	2205	2419	3670	5135	6327
	weight BW	lbs	61	62	71	110	181	287	408	536	697	992	1389	1709	2562	4759	5012	7402	10472	13241
		kg	28	28	32	50	82	130	185	243	316	450	630	775	1162	2163	2273	3357	4760	6005

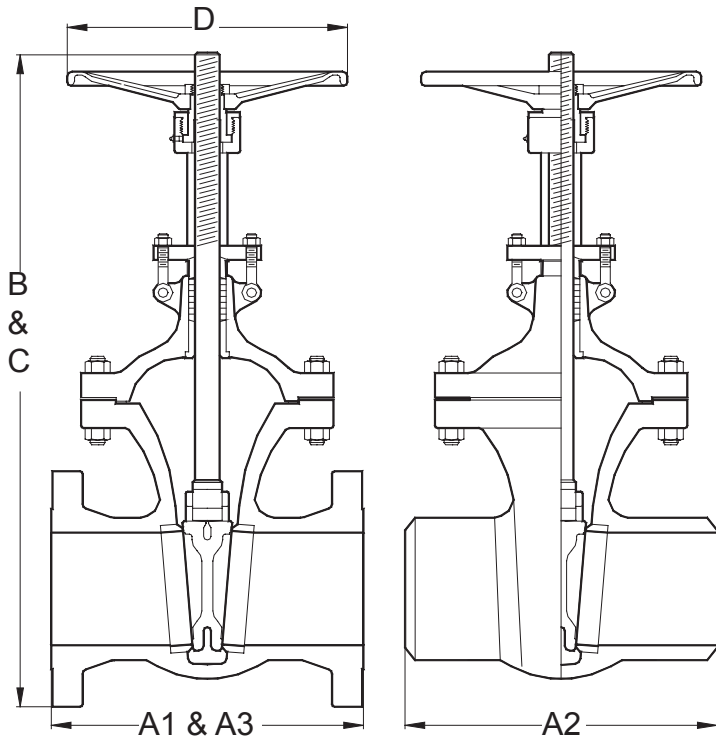


Fig. GB03R (A1)
Fig. GB03J (A3)

Fig. GB03B (A2)

Fig No:
GB03R
GB03J
GB03B

Flanged RF
Flanged RTJ
Weld Ends.

FEATURES

- Flexible wedge design.(Choice of solid or split wedge available)
- Full range of body materials.
-See page BB-6 to BB-9
- Full range of trim materials.
-See page BB-10 to BB-11
- Flanged or butt weld ends.
- OS & Y construction.
- Full port design according to ASME B16.34 Annex A.
- Renewable seat rings - seal welded.
- Meet design requirements of ASME B16.34 and API 600.
- Flanges according to ASME B16.5
- Flanges larger than 24" according to ASME B16.47.
- Bevel Gear operators recommended on sizes 20" and larger.
- Male and female bonnet joint standard.
- For bonnet gasket, packing material and bolting material -See page BB-4

dim	description		1.5	2	3	4	6	8	10	12	14	16	18	20	24	30	36
A1	face to face RF	in	7.5	8.5	11.13	12.0	15.88	16.5	18.0	19.75	30.0	33.0	36.0	39.0	45.0	55.0	68.0
		mm	191	216	283	305	403	419	457	502	762	838	914	991	1143	1397	1727
A2	end to end BW	in	7.5	8.5	11.13	12.0	15.88	16.5	18.0	19.75	30.0	33.0	36.0	39.0	45.0	55.0	68.0
		mm	191	216	283	305	403	419	457	502	762	838	914	991	1143	1397	1727
A3	face to face RTJ	in	8.00	9.13	11.75	12.63	16.5	17.13	18.63	20.38	30.63	33.63	36.63	39.63	45.88	56.0	69.13
		mm	203	232	299	321	419	435	473	518	778	854	930	1007	1165	1422	1756
B	end to top closed	in	18	18	22.5	27	36	44.5	54	61.5	67	74.5	90.5	86	118	148	169
		mm	457	457	572	686	914.5	1130	1372	1562	1702	1892	2299	2184	2997	3759	4293
C	end to top open	in	20.5	20.5	26	31.5	42.5	53	65	74	81.5	91	109	106.5	142.5	179	205
		mm	521	521	660	800	1080	1346	1651	1880	2070	2311	2769	2705	3620	4547	5207
D	handwheel	plg	10	10	10	14	14	20	24	30	30	30	36	G.O.	G.O.	G.O.	G.O.
		mm	254	254	254	356	356	508	610	762	762	762	914				
	weight RF / RTJ	lbs	62	62	112	198	340	516	774	1080	1647	2813	3653	3960	4917	10584	15104
		kg	28	28	51	90	154	234	351	490	747	1276	1657	1796	2230	4800	6850
	weight BW	lbs	49	49	86	174	287	406	642	860	1334	2436	2977	3312	3881	9526	1349
		kg	22	22	39	79	130	184	291	390	605	1105	1350	1502	1760	4320	6120

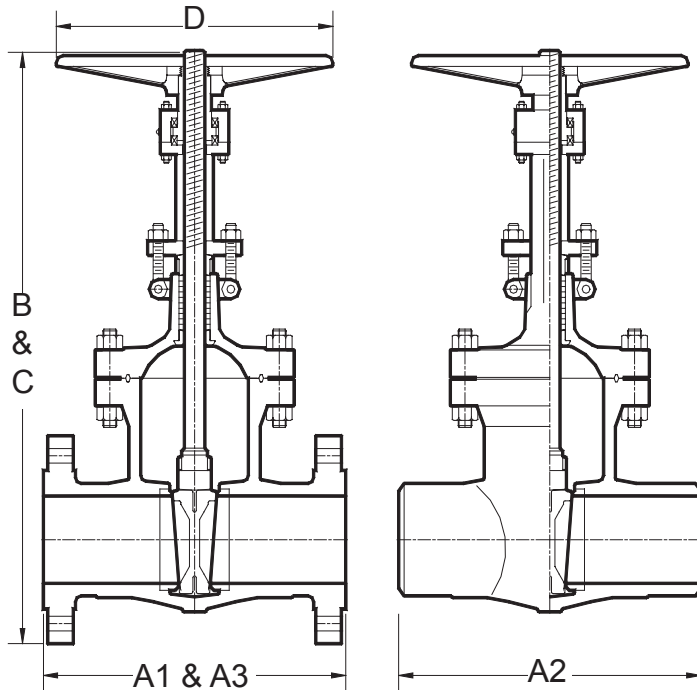


Fig. GB06R (A1)
Fig. GB06J (A3)

Fig. GB06B (A2)

Fig. No:

GB06R

Flanged RF

GB06J

Flanged RTJ

GB06B

Weld Ends.

FEATURES

- Flexible wedge design.(Choice of solid or split wedge available)
- Full range of body materials.
-See page BB-6 to BB-9
- Full range of trim materials.
-See page BB-10 to BB-11
- Flanged or butt weld ends.
- OS & Y construction.
- Full port design according to ASME B16.34 Annex A.
- Renewable seat rings - seal welded.
- Meet design requirements of ASME B16.34 and API 600.
- Flanges according to ASME B16.5
- Flanges larger than 24" according to ASME B16.47.
- Bevel Gear operators recommended on sizes 18" and larger.
- Ring joint bonnet gasket standard.
- For bonnet gasket, packing material and bolting material -See page BB-4

dim	description		1.5	2	3	4	6	8	10	12	14	16	18	20	24	30	36
A1	face to face RF	in	9.5	11.5	14.0	17.0	22.0	26.0	31.0	33.0	35.0	39.0	43.0	47.0	55.0	65.0	82.0
		mm	241	292	356	432	559	660	787	838	889	991	1092	1194	1397	1651	2083
A2	end to end BW	in	9.5	11.5	14.0	17.0	22.0	26.0	31.0	33.0	35.0	39.0	43.0	47.0	55.0	65.0	82.0
		mm	241	292	356	432	559	660	787	838	889	991	1092	1194	1397	1651	2083
A3	face to face RTJ	in	9.63	11.63	14.13	17.13	22.13	26.13	31.13	33.13	35.13	39.13	43.13	47.25	55.37	65.5	82.63
		mm	244.6	295	359	435	562	664	791	842	892	994	1096	1200	1406	1664	2099
B	end to top closed	in	18.5	18.5	25.5	29	37	43	52	58	64	70	85	99	104	127	146
		mm	470	470	648	737	940	1092	1321	1473	1626	1778	2159	2514	2642	3226	3708
C	end to top open	in	21	21	29	34	44	52	63	71	78	89	102	109	111	155	182
		mm	533	533	737	864	1118	1321	1600	1803	1981	2261	2591	2769	2819	3937	4623
D	handwheel	plg	8	8	10	14	20	24	30	30	36	36	G.O.	G.O.	G.O.	G.O.	G.O.
		mm	203	203	254	356	508	610	762	762	914	914					
	weight RF / RTJ	lbs	93	93	185	302	525	983	1737	2313	3208	4022	5532	7080	9407	16141	25380
		kg	42	42	84	137	238	446	788	1049	1455	1824	2509	3211	4266	7320	11510
	weight BW	lbs	75	75	154	232	359	759	1398	1854	2679	3303	4624	5865	7409	13693	22756
		kg	34	34	70	105	163	344	634	841	1215	1498	2097	2660	3360	6210	10320

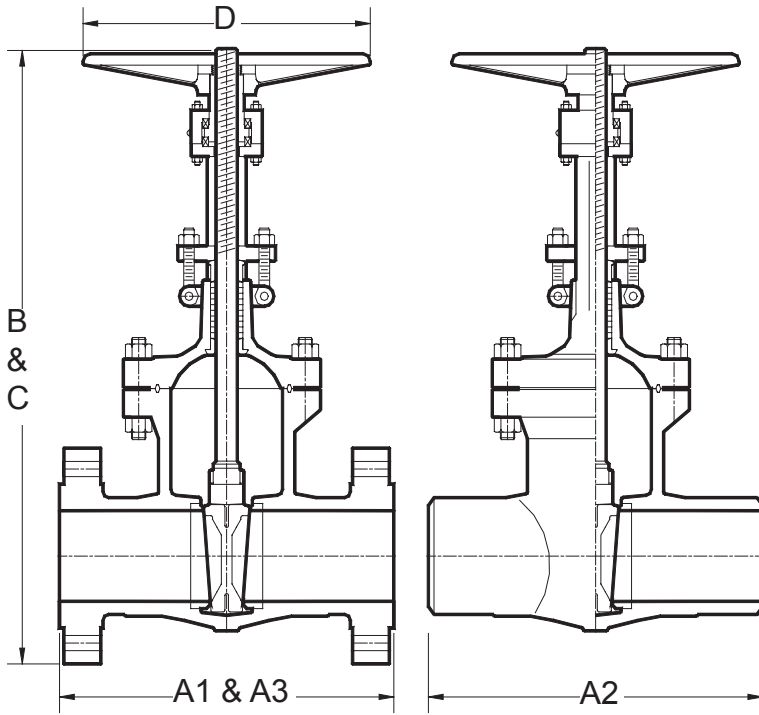


Fig. GB09R (A1)
Fig. GB09J (A3)

Fig. GB09B (A2)

THROUGH OR BLIND BOLT

Fig. No:

GB09R

Flanged RF

GB09J

Flanged RTJ

GB09B

Weld Ends

FEATURES

- Flexible wedge design.(Choice of solid or split wedge available)
- Full range of body materials.
-See page BB-6 to BB-9
- Full range of trim materials.
-See page BB-10 to BB-11
- Flanged or butt weld ends.
- OS & Y construction.
- Full port design according to ASME B16.34 Annex A.
- Renewable seat rings - seal welded.
- Meet design requirements of ASME B16.34 and API 600.
- Flanges according to ASME B16.5
- Flanges larger than 24" according to ASME B16.47.
- Bevel Gear operators recommended on sizes 10" and larger.
- Ring joint bonnet gasket standard.
- For bonnet gasket, packing material and bolting material -See page BB-4

dim	description	1.5	2	3	4	6	8	10	12	14	16	18	20	24
A1	face to face RF	in	Use class 1500 on this size	15.0	18.0	24.0	29.0	33.0	38.0	40.5	44.5	48.0	52.0	61
		mm		381	457	610	737	838	965	1029	1130	1219	1321	1549
A2	end to end BW	in		15.0	18.0	24.0	29.0	33.0	38.0	40.5	44.5	48.0	52.0	61
		mm		381	457	610	737	838	965	1029	1130	1219	1321	1549
A3	face to face RTJ	in		15.13	18.13	24.13	29.13	33.13	38.13	40.88	44.88	48.5	52.5	61.75
		mm		384	460	613	740	841	968	1038	1140	1232	1334	1568
B	end to top closed	in		30	33	44	53	65	76	85	91	98	105	127
		mm		762	838	1118	1346	1651	1930	2159	2311	2489	2667	3226
C	end to top open	in		33.5	38	50	62	75	87	100	103	116	126	152
		mm		851	965	1270	1575	1905	2210	2540	2616	2946	3200	3861
D	hand wheel	plg		14	14	24	30	30	G.O.	G.O.	G.O.	G.O.	G.O.	G.O.
		mm		356	508	610	762	762						
	weight RF / RTJ	lbs		368	584	990	1601	2732	3583	4134	4443	5138	7923	12425
		kg		167	265	449	726	1239	1625	1875	2015	2330	4500	5635
	weight BW	lbs		306	478	774	1257	2242	2933	3376	3528	3843	8339	9466
		kg		139	217	351	570	1017	1330	1531	1600	1743	3782	4293

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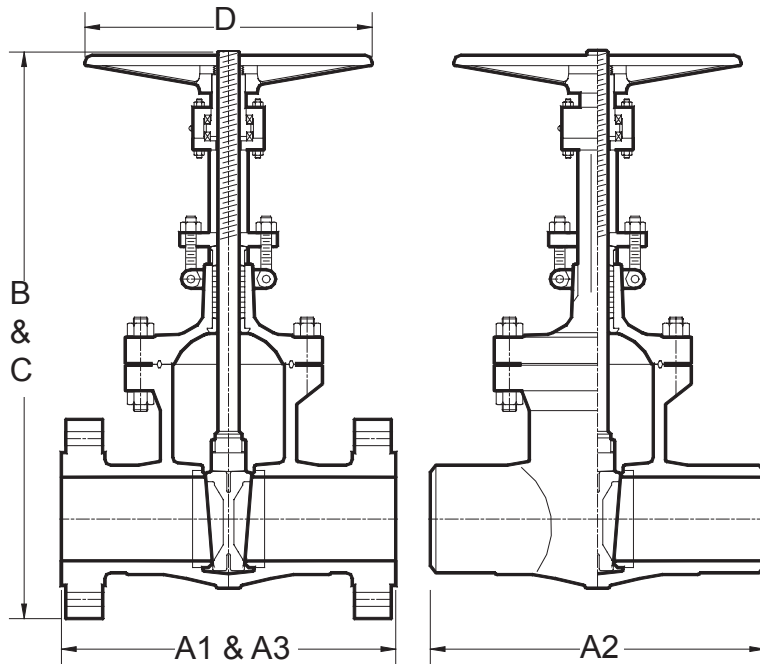


Fig. GB15R (A1)
Fig. GB15J (A3)

Fig. GB15B (A2)

THROUGH OR BLIND BOLT

Fig. No:

GB15R Flanged RF
GB15J Flanged RTJ
GB15B Weld Ends.

FEATURES

- Flexible wedge design. (Choice of solid or split wedge available)
- Full range of body materials.
-See page BB-6 to BB-9
- Full range of trim materials.
-See page BB-10 to BB-11
- Flanged or butt weld ends.
- OS & Y construction.
- Full port design according to ASME B16.34 Annex A.
- Renewable seat rings - seal welded.
- Meet design requirements of ASME B16.34 and API 600.
- Flanges according to ASME B16.5
- Bevel Gear operators recommended on sizes 8" and larger.
- Ring joint bonnet gasket standard.
- For bonnet gasket, packing material and bolting material -See page BB-4

dim	description		1.5	2	3	4	6	8	10	12	14	16
A1	face to face RF	in	12.00	14.5	18.5	21.5	27.75	32.75	39	44.5	49.5	54.5
		mm	305	368	470	546	705	832	991	1130	1257	1384
A2	end to end BW	in	12.00	14.5	18.5	21.5	27.75	32.75	39	44.5	49.5	54.5
		mm	305	368	470	546	705	832	991	1130	1257	1384
A3	face to face RTJ	in	12.00	14.63	18.63	21.63	28	33.13	39.38	45.13	50.25	55.38
		mm	305	372	473	549	711	841	1000	1146	1276	1407
B	end to top closed	in	27	27	35	39	49	62	75	88	91	97
		mm	689	689	876	981	1238	1575	1911	2242	2299	2464
C	end to top open	in	30	30	38	43	55	70	85	99	102	113
		mm	739	749	959	1083	1388	1765	2146	2521	2591	2870
D	hand wheel	plg	14	14	20	20	30	G.O	G.O	G.O	G.O	G.O
		mm	356	356	508	508	762					
	weight RF / RTJ	lbs	309	309	474	677	1621	2822	4664	6670	9744	12379
		kg	140	140	215	307	735	1280	2115	3025	4419	5614
	weight BW	lbs	260	260	379	531	1515	2306	3793	5338	7942	10650
		kg	118	118	172	241	687	1046	1720	2421	3602	4831

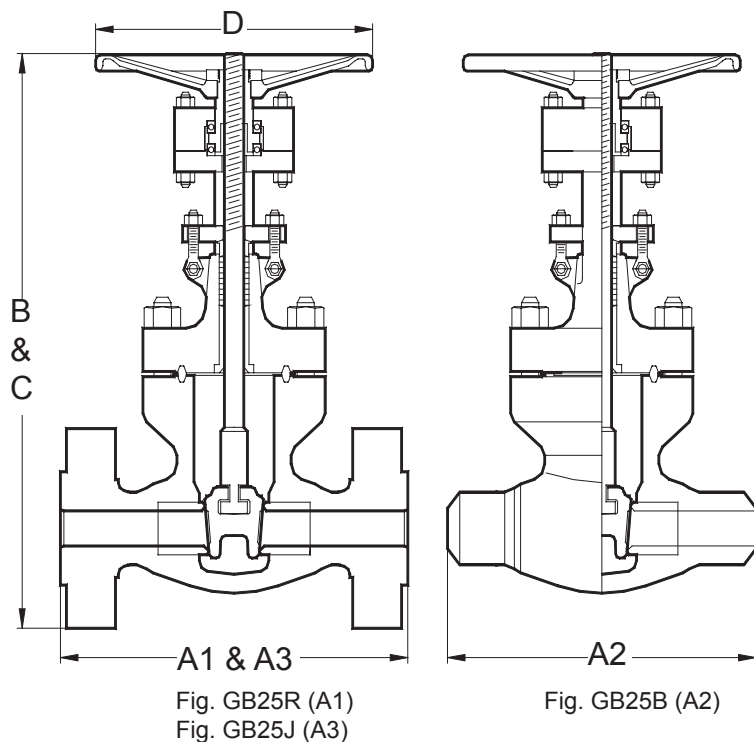


Fig. No:

GB25R

Flanged RF

GB25J

Flanged RTJ

GB25B

Weld Ends.

FEATURES

- Flexible wedge design.(Choice of solid wedge available)
- Full range of body materials.
-See page BB-6 to BB-9
- Full range of trim materials.
-See page BB-10 to BB-11
- Flanged or butt weld ends.
- OS & Y construction.
- Full port design according to ASME B16.34 Annex A.
- Renewable seat rings - seal welded.
- Meet design requirements of ASME B16.34 and API 600.
- Flanges according to ASME B16.5
- Bevel Gear operators recommended on sizes 8" and larger.
- Ring joint bonnet gasket standard.
- For bonnet gasket, packing material and bolting material -See page BB-4

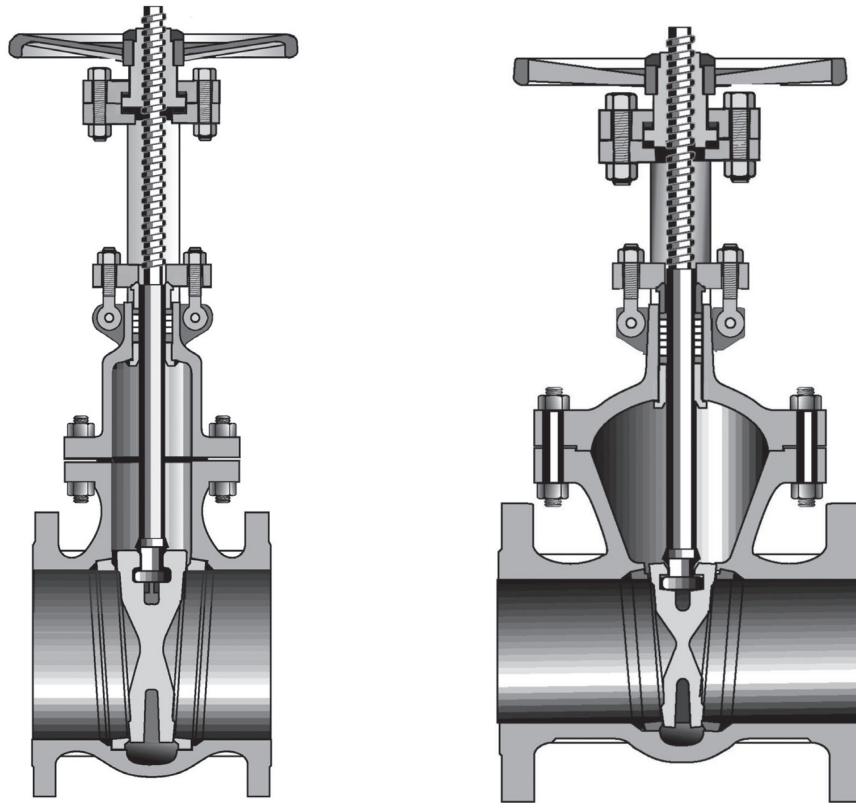
dim	description		2	3	4	6	8	10	12
A1	face to face RF	in	17.75	22.75	26.5	36	40.25	50	56
		mm	451	578	673	914	1022	1270	1422
A2	end to end BW	in	11	14.5	18	24	30	36	41
		mm	279	368	457	610	762	914	1041
A3	face to face RTJ	in	17.88	23	26.88	36.5	40.88	50.88	56.88
		mm	454	584	683	927	1038	1292	1445
B	end to top closed	in	26.63	36	40	49	57	70	77
		mm	676	914	1016	1245	1448	1778	1956
C	end to top open	in	29	39	44	54	65	79	88
		mm	737	991	1118	1372	1651	2007	2235
D	hand wheel	plg	14	20	G.O.	G.O.	G.O.	G.O.	G.O.
		mm	356	508					
	weight RF / RTJ	lbs	456	511	639	1572	2648	4410	6886
		kg	207	232	290	713	1201	2000	3123
	weight BW	lbs	313	368	430	1020	1650	2756	3850
		kg	142	167	195	463	748	1250	1740



Gate valves

Gate valves are the most commonly used shutoff valve in the industry today. They are used where minimum pressure drop and bi-directional on-off service is required. Gate valves are not designed for throttling service. Prolonged use in the partially open position will generally damage seating surfaces. Gate valves are available with a number of wedge configurations (solid, flexible and split) to best meet the specific service conditions.

Gate valves normally are handwheel operated, but are also available with gearing, electric motor actuators, or cylinder (pneumatic or hydraulic) actuators for remote operation. See Technical Data section for more detail.



Selection

Type and size – Select the best type of gate valve for the intended service. Gate and globe valves are available with a selection of wedge configurations for different services. Valves may be sized to match existing lines.

Ratings – Valves must only be used in operating conditions within the appropriate ASME pressure-temperature ratings for valve class rating and body/bonnet material (see Technical Data section).

Temperature limitations – Only use valves within the temperature limitations of their construction. Temperature limitations of body/bonnet materials, trim, bolting, packing and gaskets must all be considered. Special construction for extended service temperatures are available on application.

Material and service – Bolted bonnet valves are available in a variety of body/bonnet materials and trims. See pages BB -6 to BB -11. Consult plant for specific service recommendations.

globe & stop check valve features

"T" pattern globe & stop check valves

Xanik® bolted bonnet globe & stop check valves provide maximum service life and dependability. Valves meet the design requirements of AP1-600 and ANSI B16.34. Valves are available in a complete range of body/bonnet materials and trims.

Swing Eye Bolts – facilitate maintenance and packing replacement

Packing Box – Designed According to MSS-SP-120, Alignment and allowances. Live load arrangements to compensate packing relaxation can be provided. Optional lantern rings and grease injectors are available.

Backseat – machined bonnet stem bushing provides back-up stem seal. Can be Hard Faced for severe applications

Body/Bonnet Joint – joint design varies with ASME class rating. Normally 600 class and higher are furnished with ring type joint (RTJ)

Body – Heavy duty body with API 600 wall thickness for maximum service life. Provided with bosses for optional by-passes or drains.

Seat Rings – Renewable heavy duty, seat rings for easy maintenance.

STOP CHECK VALVES

Stop check valves are globe valves with the added ability to prevent flow reversal. In the open position, they function as a lift check valve. In the closed position, they are seated by thrust from the stem like a globe valve. Stop check valves must be installed with the stem vertical and flow from below the disc. When the stem is opened, pressure from below the disc opens the valve and flow proceeds until it reverses. Most common use is to protect equipment from reverse flow.

Handwheel – large handwheels for easy operation. Also available with impact handwheel, gearing, motor actuators or cylinder actuators.

Stem Nut – Top entry design to facilitate maintenance. Needle or ball Bearings are provided to reduce operating torque. Aluminum-bronze is the standard material. Ni-resist can also be furnished.

Gland – two-piece gland and gland flange is self-aligning to eliminate stem damage and provide uniform packing compression.

Stem – **Xanik®** wedge gate valves are provided with integral T-head stems. The stem Disc connection is made without undercut in the stem diameter.

End Connections

–a choice of flanged or butt weld ends. Graylock Ends can also be provided.

Stop check Disc/Stem assembly detail

Body/bonnet materials include Carbon and low carbon steels, low alloy and stainless steels. For special applications they can be supplied in other grades of alloys. There's a full range of trim materials to match any service. Optional packing and gasket materials are available for a full range of service conditions. (See pages BB-4 to BB-11)

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“T” pattern globe & stop check valves

asme class 150.
size 1 1/2” - 20”

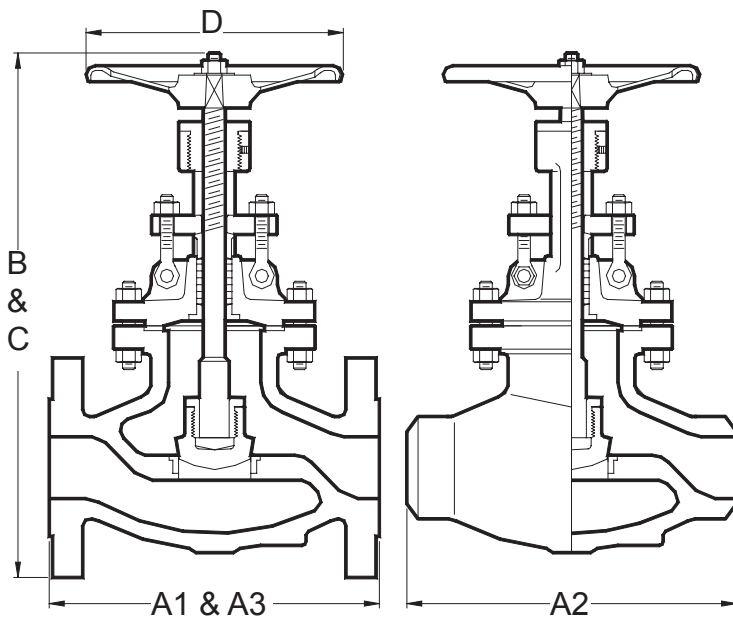


Fig. BB01R (A1)
Fig. SB01R (A1)
Fig. BB01J (A3)
Fig. SB01J (A3)

Fig. BB01B (A2)
Fig. SB01B (A2)

Fig. No:

BB01R Globe Flanged RF
BB01J Globe Flanged RTJ
BB01B Globe Weld Ends.

SB01R Stop Check Flanged RF
SB01J Stop Check Flanged RTJ
SB01B Stop Check Weld Ends

FEATURES

- Full range of body materials.
-See page BB-6 to BB-9
- Full range of trim materials.
-See page BB-10 to BB-11
- Flanged or butt weld ends.
- OS & Y construction.
- Full port design according to ASME B16.34 Annex A.
- Renewable seat rings - seal welded.
- Meet design requirements of ASME B16.34 and API 600.
- Flanges according to ASME B16.5
- Bevel Gear operators recommended on sizes 12” and larger.
- Male and female bonnet joint standard.
- For bonnet gasket, packing material and bolting material -See page BB-4

dim	description		1.5	2	3	4	6	8	10	12	14	16	18	20
A1	face to face RF	in	6.5	8.0	9.5	11.5	16.0	19.5	24.5	27.5	31.0	36.0	38.5	38.5
		mm	165	203	241	292	406	495	622	699	787	914	978	978
A2	end to end BW	in	6.5	8.0	9.5	11.5	16.0	19.5	24.5	27.5	31.0	36.0	38.5	38.5
		mm	165	203	241	292	406	495	622	699	787	914	978	978
A3	face to face RTJ	in	7.00	8.5	10.0	12.0	16.5	20.0	25.0	28.0	31.5	36.5	39.0	39.0
		mm	178	216	254	305	419	508	635	711	800	927	991	991
B	end to top closed	in	16	16	19	21	25	29	34	44	58	59	63	70
		mm	406	406	476	537	632	746	873	1115	1461	1502	1600	1778
C	end to top open	lbs	17	17	20	22	27	32	37	47	61	63	71	79
		kg	425	425	502	568	676	803	943	1197	1556	1610	1803	2007
D	hand wheel	plg	10	10	10	14	20	20	20	24	G.O.	G.O.	G.O.	G.O.
		mm	254	254	254	356	508	508	508	610				
	weight RF / RTJ	lbs	57	57	95	135	247	456	673	953	1200	1600	1950	2700
		kg	26	26	43	61	112	207	305	432	544	726	886	1227
	weight BW	lbs	46	46	77	108	209	381	595	878	1041	1374	1730	2430
		kg	21	21	35	49	95	173	270	398	472	623	786	1105

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asme class 300.
size 1 1/2" - 20"

"T" pattern globe & stop check valves

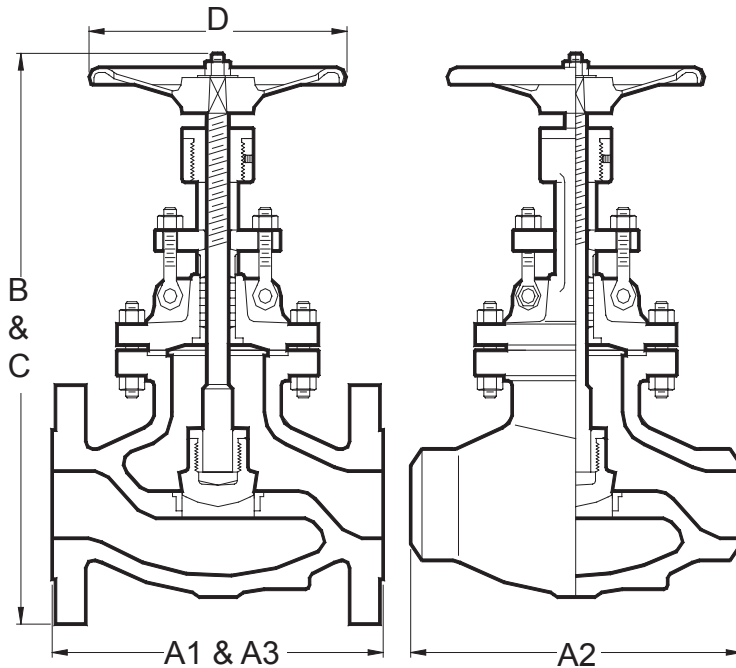


Fig. BB03R (A1)
Fig. SB03R (A1)
Fig. BB03J (A3)
Fig. SB03J (A3)

Fig. BB03B (A2)
Fig. SB03B (A2)

Fig. No:

BB03R Globe Flanged RF
BB03J Globe Flanged RTJ
BB03B Globe Weld Ends.

SB03R Stop Check Flanged RF
SB03J Stop Check Flanged RTJ
SB03B Stop Check Weld Ends

FEATURES

- Full range of body materials.
-See page BB-6 to BB-9
- Full range of trim materials.
-See page BB-10 to BB-11
- Flanged or butt weld ends.
- OS & Y construction.
- Full port design according to ASME B16.34 Annex A.
- Renewable seat rings - seal welded.
- Meet design requirements of ASME B16.34 and API 600.
- Flanges according to ASME B16.5
- Bevel Gear operators recommended on sizes 10" and larger.
- Male and female bonnet joint standard.
- For bonnet gasket, packing material and bolting material -See page BB-4

dim	description		1.5	2	3	4	6	8	10	12	14	16	18	20
A1	face to face RF	in	9.00	10.5	12.5	14.0	17.5	22.0	24.5	28.0	30.0	34.0	38.5	40.0
		mm	229	267	318	356	445	559	622	711	762	864	978	1016
A2	end to end BW	in	9.00	10.5	12.5	14.0	17.5	22.0	24.5	28.0	30.0	34.0	38.5	40.0
		mm	229	267	318	356	445	559	622	711	762	864	978	1016
A3	face to face RTJ	in	9.5	11.13	13.13	14.63	18.13	22.68	25.13	28.63	30.63	34.63	39.12	40.75
		mm	241	283	334	372	461	576	638	727	778	880	994	1035
B	end to top closed	in	17	17	20	23	28	34	41	47	59	60	77	89
		mm	425	425	508	572	715	851	1048	1181	1486	1527	1956	2261
C	end to top open	in	18	18	21	24	30	36	44	50	62	64	83	97
		mm	445	445	534	603	759	908	1118	1264	1581	1635	2108	2464
D	hand wheel	plg	10	10	10	14	20	24	30	G.O.	G.O.	G.O.	G.O.	G.O.
		mm	254	254	254	356	508	610	762					
	weight RF / RTJ	lbs	73	73	132	194	375	635	1058	1740	2373	3010	3500	4850
		kg	33	33	60	88	170	288	480	789	1076	1365	1591	2205
	weight BW	lbs	57	57	104	150	298	503	897	1508	2042	2595	3050	4250
		kg	26	26	47	68	135	228	407	684	926	1177	1386	1932

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“T” pattern globe & stop check valves

asme class 600.
size 1 1/2” - 12”

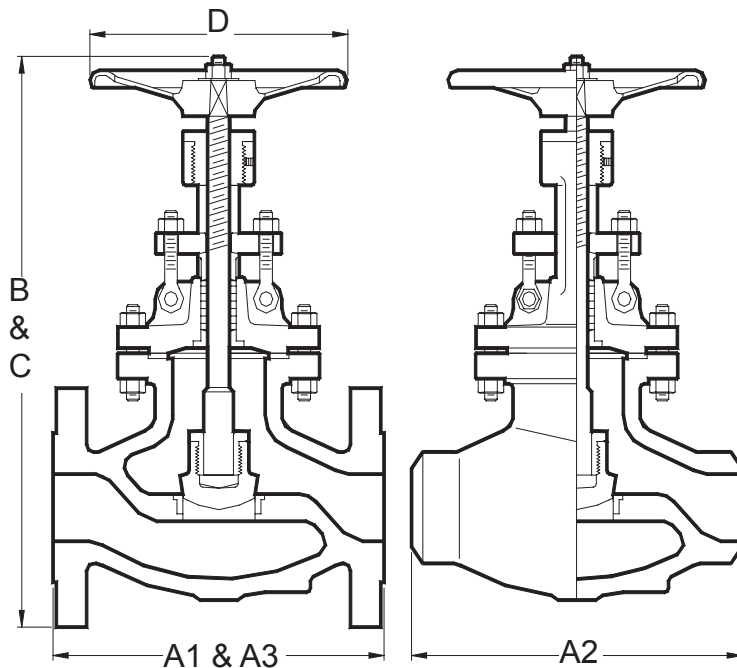


Fig. BB06R (A1)
Fig. SB06R (A1)
Fig. BB06J (A3)
Fig. SB06J (A3)

Fig. BB06B (A2)
Fig. SB06B (A2)

Fig. No:

BB06R
BB06J
BB06B

Globe Flanged RF
Globe Flanged RTJ
Globe Weld Ends.

SB06R
SB06J
SB06B

Stop Check Flanged RF
Stop Check Flanged RTJ
Stop Check Weld Ends

FEATURES

- Full range of body materials.
-See page BB-6 to BB-9
- Full range of trim materials.
-See page BB-10 to BB-11
- Flanged or butt weld ends.
- OS & Y construction.
- Full port design according to ASME B16.34 Annex A.
- Renewable seat rings - seal welded.
- Meet design requirements of ASME B16.34
- Flanges according to ASME B16.5
- Bevel Gear operators recommended on sizes 6” and larger.
- Ring joint bonnet gasket standard.
- For bonnet gasket, packing material and bolting material -See page BB-4

dim	description		1.5	2	3	4	6	8	10	12
A1	face to face RF	in	9.5	11.5	14.0	17.0	22.0	26.0	31.0	33.0
		mm	241	292	356	432	559	660	787	838
A2	end to end BW	in	9.5	11.5	14.0	17.0	22.0	26.0	31.0	33.0
		mm	241	292	356	432	559	660	787	838
A3	face to face RTJ	in	9.5	11.63	14.13	17.13	22.13	26.13	31.13	33.13
		mm	241	295	359	435	562	664	791	831
B	end to top closed	in	21	21	26	32	43	50	55	56
		mm	540	540	664	810	1083	1270	1391	1416
C	end to top open	in	23	23	27	34	46	53	58	63
		mm	578	578	695	851	1159	1346	1484	1603
D	hand wheel	plg	10	10	14	20	G.O.	G.O.	G.O.	G.O.
		mm	254	254	356	508				
	weight RF / RTJ	lbs	97	97	172	331	783	1226	1650	3220
		kg	44	44	78	150	355	556	726	1460
	weight BW	lbs	82	82	159	287	662	1098	1300	2810
		kg	37	37	72	130	300	498	590	1274

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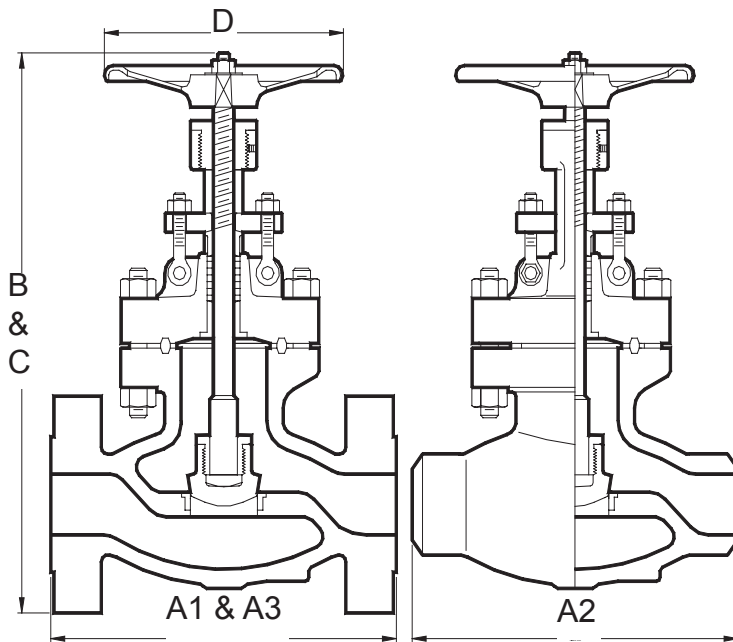


Fig. BB09R (A1)
Fig. SB09R (A1)
Fig. BB09J (A3)
Fig. SB09J (A3)

Fig. BB09B (A2)
Fig. SB09B (A2)

THROUGH OR BLIND BOLT

Fig. No:

BB09R Globe Flanged RF
BB09J Globe Flanged RTJ
BB09B Globe Weld Ends.

SB09R Stop Check Flanged RF
SB09J Stop Check Flanged RTJ
SB09B Stop Check Weld Ends

FEATURES

- Full range of body materials.
-See page BB-6 to BB-9
- Full range of trim materials.
-See page BB-10 to BB-11
- Flanged or butt weld ends.
- OS & Y construction.
- Full port design according to ASME B16.34 Annex A.
- Renewable seat rings - seal welded.
- Meet design requirements of ASME B16.34
- Bevel Gear operators recommended on sizes 6" and larger.
- Ring joint bonnet gasket standard.
- For bonnet gasket, packing material and bolting material -See page BB-4

dim	description		1.5	2	3	4	6	8	10	12
A1	face to faceRF	in	Use class 1500 on this size		15.0	18.0	24.0	29.0	33.0	38.0
		mm			381	457	610	737	838	965
A2	end to endBW	in			15.0	18.0	24.0	29.0	33.0	38.0
		mm			381	457	610	737	838	965
A3	face to faceRTJ	in			15.13	18.13	24.13	29.13	33.13	38.13
		mm			384	460	613	740	842	969
B	end to topclosed	in			35	41	46	49	56	62
		mm			887	1040	1175	1245	1422	1575
C	end to topopen	in			37	43	48	53	61	68
		mm			938	1091	1207	1346	1549	1727
D	handwheel	plg			20	24	G.O.	G.O.	G.O.	G.O.
		mm			508	610				
	weightRF / RTJ	lbs			419	639	950	1650	2638	3950
		kg			140	290	431	750	1199	1795
	weightBW	lbs			340	556	765	1458	2325	3358
		kg			154	252	347	663	1057	1526



"T" pattern globe & stop check valves

asme class 1500.
size 2" - 12"

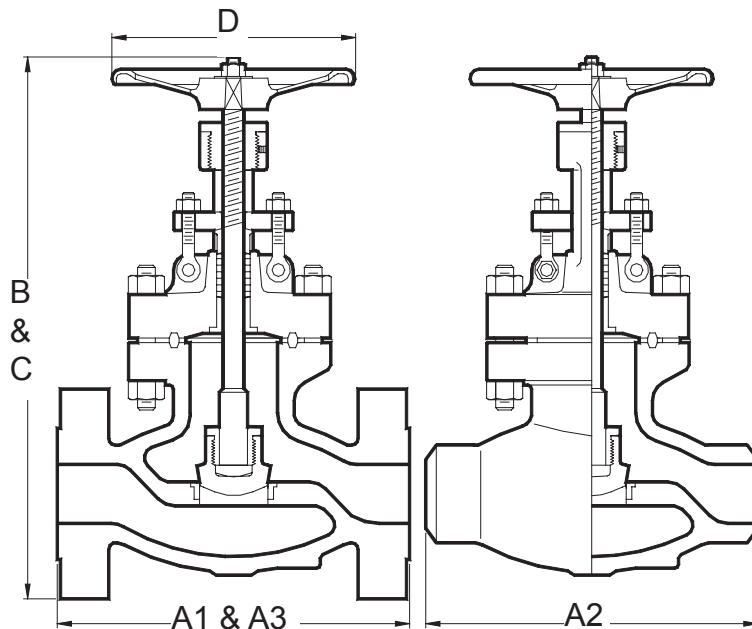


Fig. BB15R (A1)
Fig. SB15R (A1)
Fig. BB15J (A3)
Fig. SB15J (A3)

Fig. BB15B (A2)
Fig. SB15B (A2)

THROUGH OR BLIND BOLT

Fig. No:

BB15R Globe Flanged RF
BB15J Globe Flanged RTJ
BB15B Globe Weld Ends.

SB15R Stop Check Flanged RF
SB15J Stop Check Flanged RTJ
SB15B Stop Check Weld Ends

FEATURES

- Full range of body materials.
-See page BB-6 to BB-9
- Full range of trim materials.
-See page BB-10 to BB-11
- Flanged or butt weld ends.
- OS & Y construction.
- Full port design according to ASME B16.34 Annex A.
- Renewable seat rings - seal welded.
- Meet design requirements of ASME B16.34
- Bevel Gear operators recommended on sizes 4" and larger.
- Ring joint bonnet gasket standard.
- For bonnet gasket, packing material and bolting material -See page BB-4

dim	description		2	3	4	6	8	10	12
A1	face to face RF	in	14.5	18.5	21.5	27.75	32.75	39.0	44.5
		mm	368	470	546	705	832	991	1130
A2	end to end BW	in	14.5	18.5	21.5	27.75	32.75	39.0	44.5
		mm	368	470	546	705	832	991	1130
A3	face to face RTJ	in	14.63	18.63	21.63	28.00	33.13	39.38	45.13
		mm	372	473	549	711	842	1000	1146
B	end to top closed	in	32	38	41	50	54	59	68
		mm	816	959	1038	1264	1372	1499	1727
C	end to top open	in	33	39	42	52	57	63	72
		mm	835	984	1070	1314	1448	1600	1829
D	hand wheel	plg	20	24	G.O.	G.O.	G.O.	G.O.	G.O.
		mm	508	610					
	weight RF / RTJ	lbs	195	315	580	1300	2500	4150	5850
		kg	88	143	263	590	1136	1886	2659
	weightBW	lbs	155	245	470	1050	2190	3428	4605
		kg	70	111	213	476	995	1558	2093

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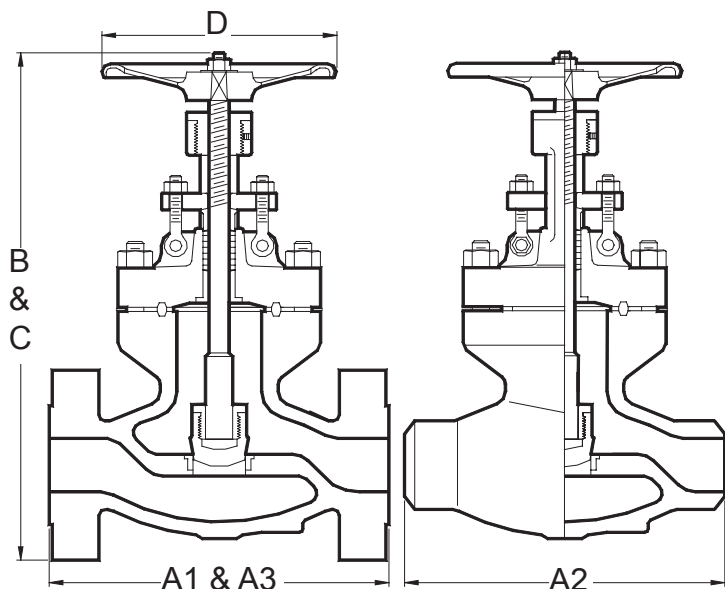


Fig. BB25R (A1)
Fig. SB25R (A1)
Fig. BB25J (A3)
Fig. SB25J (A3)

Fig. BB25B (A2)
Fig. SB25B (A2)

IN THIS CLASS BW ENDS ARE AC-
CORDING TO SHORT PATTERN END
TO END DIMENSIONS

Fig. No:

BB25R Globe Flanged RF
BB25J Globe Flanged RTJ
BB25B Globe Weld Ends.

SB25R Stop Check Flanged RF
SB25J Stop Check Flanged RTJ
SB25B Stop Check Weld Ends

FEATURES

- Full range of body materials.
-See page BB-6 to BB-9
- Full range of trim materials.
-See page BB-10 to BB-11
- Flanged or butt weld ends.
- OS & Y construction.
- Full port design according to ASME B16.34 Annex A.
- Renewable seat rings - seal welded.
- Meet design requirements of ASME B16.34
- Bevel Gear operators recommended on sizes 3" and larger.
- Ring joint bonnet gasket standard.
- For bonnet gasket, packing material and bolting material -See page BB-4

dim	valve size		2	2.5	3	4	6	8	10	12
A2	end to end BW	in	13	13	15	18	24	29	33	38
		mm	330	330	381	457	609	736	838	965
A1	face to face RF	in	20	20	22.75	26.5	36	40.25	50	56
		mm	508	508	578	673	914	1022	1270	1422
A3	face to face RTJ	in	20.25	20.25	23	26.88	36.5	40.88	50.88	56.88
		mm	514	514	584	683	927	1039	1293	1445
B	center to top	in	20	20	24	27	38	47	56	60
		mm	495	495	603	685	971	1200	1416	1524
C	hand wheel	in	16	16	16	GO	GO	GO	GO	GO
		mm	406	406	406	GO	GO	GO	GO	GO
	weight weld ends	lbs	165	165	253	310	1013	1693	2911	4200
		kg	74	74	114	140	459	767	1320	1905
	weight flanged ends	lbs	260	260	430	575	1700	2730	4900	7300
		kg	117	117	195	260	770	1238	2222	3310



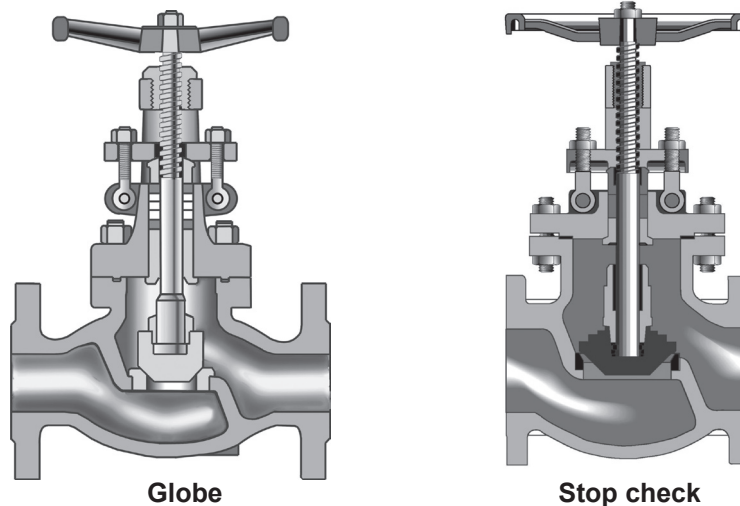
Globe valves

Globe valves are used where throttling or both throttling and shutoff are required. They can also be used for on-off service, but because of high pressure drop, this is generally confined to applications where the valve is normally closed and pressure drop is not important when the valve is open. Normally globe valves are installed with flow under the disc, but under certain conditions flow over the disc may have advantages. Standard globe valves, because they are designed for both throttling and shutoff, should not be used for prolonged throttling at less than 10% open. Internal damage can occur. For continuous severe throttling it is required to use a control valve.

Globe valves are available with a complete range of manual or remote actuators. See Technical Data section for more detail.

Stop check valves

Stop check valves are globe valves with the added ability to prevent flow reversal. In the open position, they function as a lift check valve. In the closed position, they are seated by thrust from the stem like a globe valve. Stop check valves must be installed with the stem vertical and flow from below the disc. When the stem is opened, pressure from below the disc opens the valve and flow proceeds until it reverses. Most common use of this type valve is to replace an isolation valve (gate, globe or angle) and a check valve on the discharge of pumps or to protect equipment from reverse flow from a common header. Stop check valves are available with a complete range of manual or remote actuators. See Technical Data section for more detail.



Selection

Type and size – Select the best type of globe and stop check valve for the intended service. Globe and Stop valves are available with a selection of disc configurations for different services. Valves may be sized to match existing lines, but stop-check valves should also be sized according to flow conditions for maximum service life.

Ratings – Valves must only be used in operating conditions within the appropriate ASME pressure-temperature ratings for valve class rating and body/bonnet material (see Technical Data section).

Temperature limitations – Only use valves within the temperature limitations of their construction. Temperature limitations of body/bonnet materials, trim, bolting, packing and gaskets must all be considered. Special construction for extended service temperatures are available on application.

Material and service – Bolted bonnet valves are available in a variety of body/bonnet materials and trims. See pages BB -6 to BB -11. Consult plant for specific service recommendations.



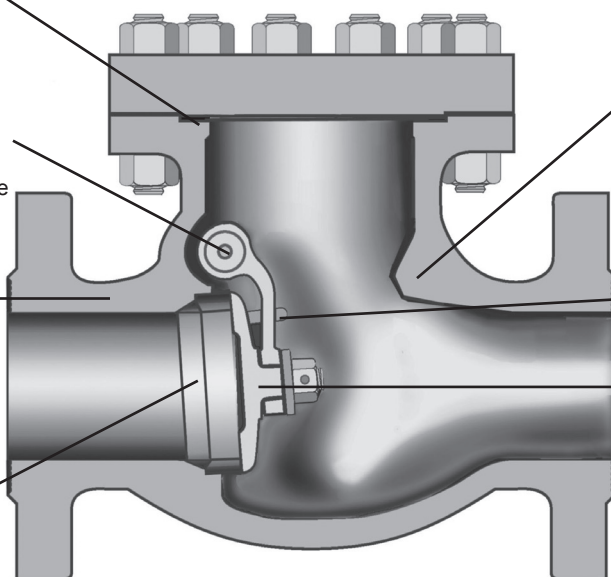
Xanik® bolted bonnet swing check valves can be furnished in a complete range of body/bonnet materials and trims. Hard faces in seat ring and disc are recommended for a long service life. All swing check valves are full ported, have full API 600 wall thickness, and meet the design requirements of ANSI B16.34.

Body/Bonnet Joint – joint design varies with ASME class rating. Normally 600 class and higher are furnished with ring type joint (RTJ)

Hanger Pin – Machined solid pin for maximum strength and service life. Alloy selected for corrosion and wear resistance according with service

Body – Heavy duty body with API 600 wall thickness for maximum service life. Provided with bosses for optional by-passes or drains.

Seat Rings – Renewable heavy duty full port seat rings for easy maintenance. Hard face overlay is recommended for a long service life.



Disc Stop – provides positive stop in open position. The stop can be modified from factory for adjusting the valve to low flow conditions. (see Technical Data section for minimum flow velocity under standard design)

Spinning limiters – lugs prevent disc from spinning, avoiding wear.

Disc – rugged disc is bolted and pinned to hanger. Seating surface is grinded and mated to seat ring for positive shutoff. Hard face overlay is recommended for long service life

End Connections – a choice of flanged or butt weld ends. Graylock Ends can also be provided.

Sizing Swing Check Valves

Swing Check valves under low flow condition present disc vibrations resulting in repeated impacts against the disc stop that caused fracture in the disc hanger or hanger pin, producing excessive wearing in the pin, which make the valve inoperable. For properly size a swing check valve, see our Technical Data section and look for the minimum flow velocity required for each different valve size and class.

There is not a universal rule for sizing check valves; changes in opening angles, weigh of disc and flow density produce different minimum required flow velocities for holding the disc against the stop in an stable position.

Also the disc stop can be factory modified to accommodate the impinging angle of the dis to low flow conditions that can be dangerous in some piping systems. **Xanik®** swing check valves are designed to restrict the disc impignig angle at 38 degrees approximately. The valves open fully at relatively low flow in most of applications.

Influence of Valve Position

Swing check valves can be adversely affected by turbulence if placed too closely to other piping components such as pumps, control valves, meters, reducers, tees, elbows, etc. In general a 10 pipe diameters of straight pipe should be provided upstream of a swing check valve to minimize adverse conditions.

Body/bonnet materials

Include Carbon and low carbon steels, low alloy and stainless steels. For special applications they can be supplied in other grades of alloys. There's a full range of trim materials to match any service. Optional packing and gasket materials are available for a full range of service conditions. (See pages BB-4 to BB-11)



swing check valves

asme class 150.
size 1 1/2" - 36"

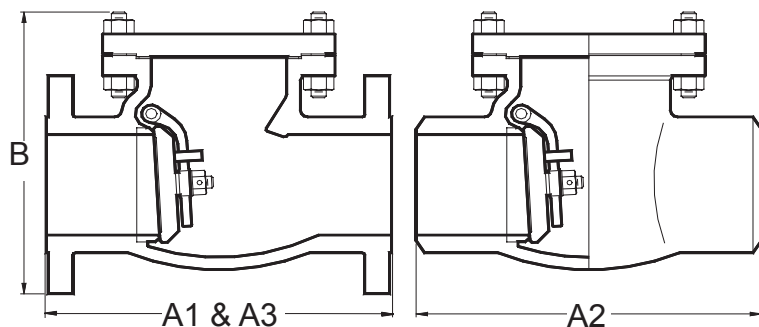


Fig. WB01R (A1)
Fig. WB01J (A3)

Fig. WB01B (A2)

Fig. No:

WB01R

Flanged RF

WB01J

Flanged RTJ

WB01B

Weld Ends.

FEATURES

- Anti - Rotation disc.
- Full range of body materials.
-See page BB-6 to BB-9
- Full range of trim materials.
-See page BB-10 to BB-11
- Flanged or butt weld ends.
- Full port design according to ASME B16.34 Annex A.
- Renewable seat rings - seal welded.
- Meet design requirements of ASME B16.34
- Flanges according to ASME B16.5
- Flanges larger than 24" according to ASME B16.47.
- Male and female cap joint standard.
- Horizontal or vertical service.
- For bonnet gasket, packing material and bolting material -See page BB-4

dim	description		1.5	2	3	4	6	8	10	12	14	16	18	20	24	30	36
A1	face to face RF	in	6.5	8.0	9.5	11.5	14.0	19.5	24.5	27.5	31.0	34.0	38.5	38.5	51.0	60.0	77.0
		mm	165	203	241	292	356	495	622	699	787	864	978	978	1295	1524	1956
A2	end to end BW	in	6.5	8.0	9.5	11.5	14.0	19.5	24.5	27.5	31.0	34.0	38.5	38.5	51.0	60.0	77.0
		mm	165	203	241	292	356	495	622	699	787	864	978	978	1295	1524	1956
A3	face to face RTJ	in	7.00	8.5	10.0	12.0	14.5	20.0	25.0	28.0	31.5	34.5	39.0	39.0	51.5	61.0	77.5
		mm	216	216	254	305	368	508	635	711	800	876	991	991	1308	1550	1969
B	end to top	in	10	10	11	13	16	20	21	27	30	34	37	40	47	59	69
		mm	248	248	283	327	400	495	543	673	772	857	940	1013	1187	1489	1753
	weight RF / RTJ	lbs	35	35	71	101	157	318	437	648	765	1488	1616	2042	3054	4267	6795
		kg	16	16	32	46	71	144	198	294	347	675	733	926	1385	1935	3089
	weight BW	lbs	26	26	55	77	126	273	375	551	646	1352	1568	1830	2761	3788	5963
		kg	12	12	25	35	57	124	170	250	293	613	711	830	1252	1718	2710

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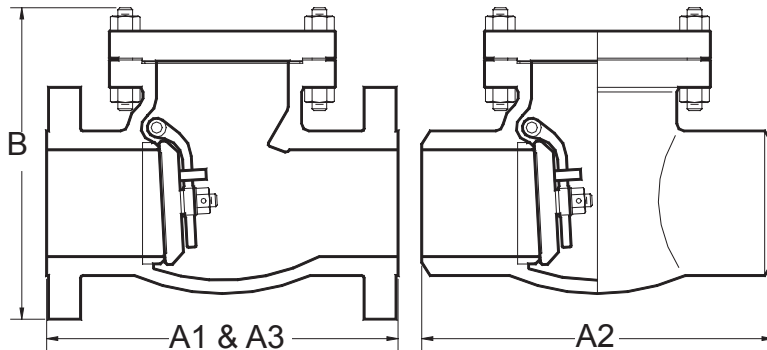


Fig. WB03R (A1)
Fig. WB03J (A3)

Fig. WB03B (A2)

Fig. No:

WB03R

Flanged RF

WB03J

Flanged RTJ

WB03B

Weld Ends.

FEATURES

- Anti - Rotation disc.
- Full range of body materials.
-See page BB-6 to BB-9
- Full range of trim materials.
-See page BB-10 to BB-11
- Flanged or butt weld ends.
- Full port design according to ASME B16.34 Annex A.
- Renewable seat rings - seal welded.
- Meet design requirements of ASME B16.34
- Flanges according to ASME B16.5
- Flanges larger than 24" according to ASME B16.47
- Male and female cap joint standard.
- Horizontal or vertical service.
- For bonnet gasket, packing material and bolting material -See page BB-4

dim	description		1.5	2	3	4	6	8	10	12	14	16	18	20	24	30	36
A1	face to face RF	in	9.5	10.5	12.5	14.0	17.5	21.0	24.5	28.0	33.0	34.0	38.5	40.0	53.0	62.75	82.0
		mm	241	267	318	356	445	533	622	711	838	864	978	1015	1346	1594	2083
A2	end to end BW	in	9.5	10.5	12.5	14.0	17.5	21.0	24.5	28.0	33.0	34.0	38.5	40.0	53.0	62.75	82.0
		mm	241	267	318	356	445	533	622	711	838	864	978	1015	1346	1594	2083
A3	face to face RTJ	in	10.0	11.13	13.13	14.63	18.13	21.63	25.13	28.63	33.63	34.63	39.13	40.75	53.88	63.75	83.13
		mm	254	283	334	372	461	550	639	728	855	880	994	1036	1369	1619	2112
B	end to top	in	11	11	13	15	18	21	25	28	32	36	39	43	50	61	72
		mm	267	267	327	375	464	527	629	718	819	911	981	1096	1257	1543	1829
	weight RF / RTJ	lbs	62	62	95	152	295	445	659	732	1018	1969	2428	3319	5689	6604	11853
		kg	28	28	43	69	134	202	299	332	462	813	1101	1505	2580	2995	5388
	weight BW	lbs	51	51	73	115	240	406	536	756	794	1680	2068	2882	5043	5702	10123
		kg	23	23	33	52	109	184	243	343	360	762	938	1307	2287	2586	4601



swing check valves

asme class 600.
size 1 1/2" - 24"

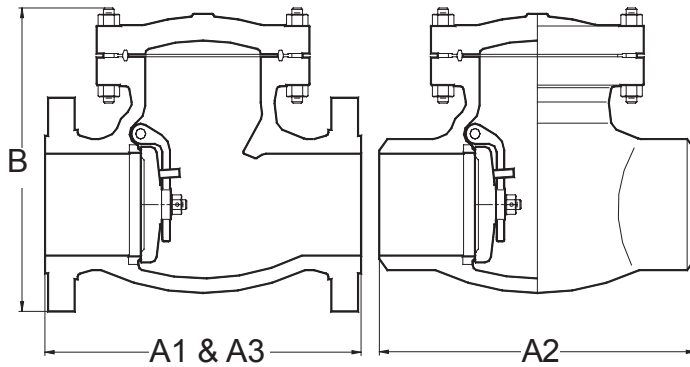


Fig. WBO6R (A1)
Fig. WBO6J (A3)

Fig. WBO6B (A2)

Fig. No:

WB06R

Flanged RF

WB06J

Flanged RTJ

WB06B

Weld Ends.

FEATURES

- Anti - Rotation disc.
- Full range of body materials.
-See page BB-6 to BB-9
- Full range of trim materials.
-See page BB-10 to BB-11
- Flanged or butt weld ends.
- Full port design according to ASME B16.34 Annex A.
- Renewable seat rings - seal welded.
- Meet design requirements of ASME B16.34
- Flanges according to ASME B16.5
- Ring joint gasket standard.
- Horizontal or vertical service.
- For bonnet gasket, packing material and bolting material -See page BB-4

dim	description		1.5	2	3	4	6	8	10	12	14	16	18	20	24
A1	face to face RF	in	9.5	11.5	14.0	17.0	22.0	26.0	31.0	33.0	35.0	39.0	43.0	47.0	55.0
		mm	241	292	356	432	559	660	787	838	889	991	1092	1194	1397
A2	end to end BW	in	9.5	11.5	14.0	17.0	22.0	26.0	31.0	33.0	35.0	39.0	43.0	47.0	55.0
		mm	241	292	356	432	559	660	787	838	889	991	1092	1194	1397
A3	face to face RTJ	in	10	11.63	14.13	17.13	22.13	26.13	31.13	33.13	35.13	39.13	43.13	47.25	55.38
		mm	254	295	359	435	562	664	791	841	892	994	1096	1200	1407
B	end to top	in	11	11	14	17	21	25	30	32	38	43	47	51	57
		mm	286	286	346	426	527	626	753	810	956	1092	1191	1292	1454
	weight RF / RTJ	lbs	73	73	137	236	479	745	1211	1530	1879	2950	3471	5200	7700
		kg	33	33	62	107	217	338	549	694	852	1338	1574	2358	3492
	weight BW	lbs	60	60	110	181	419	595	935	1208	1504	2350	2589	4300	6400
		kg	27	27	50	82	190	270	424	548	682	1065	1174	1950	2902

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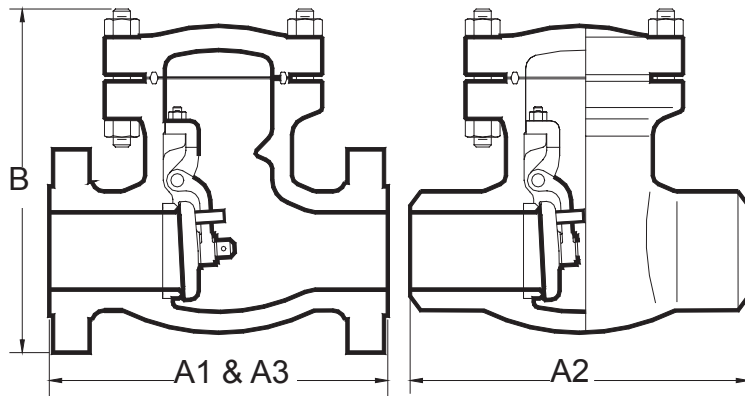


Fig. WB09R (A1)
Fig. WB09J (A3)

Fig. WB09B (A2)

THROUGH OR BLIND BOLT

Fig. No:

WB09R

Flanged RF

WB09J

Flanged RTJ

WB09B

Weld Ends.

FEATURES

- Anti - Rotation disc.
- Full range of body materials.
-See page BB-6 to BB-9
- Full range of trim materials.
-See page BB-10 to BB-11
- Flanged or butt weld ends.
- Full port design according to ASME B16.34 Annex A.
- Renewable seat rings - seal welded.
- Meet design requirements of ASME B16.34
- Bevel Gear operators recommended on sizes 6" and larger.
- Ring joint bonnet gasket standard.
- For bonnet gasket, packing material and bolting material -See page BB-4

dim	description		1.5	2	3	4	6	8	10	12
A1	face to face RF	in	Use class 1500 on this size		15.0	18.0	24.0	29.0	33.0	38.0
		mm			381	457	610	737	838	965
A2	end to end BW	in			15.0	18.0	24.0	29.0	33.0	38.0
		mm			381	457	610	737	838	965
A3	face to face RTJ	in			15.13	18.13	24.13	29.13	33.13	38.13
		mm			384	460	613	740	841	968
B	end to top	in			16	19	23	29	32	36
		mm			400	476	572	724	819	914
	weight RF / RTJ	lbs			175	331	660	1100	1750	2400
		kg			79	150	299	499	794	1088
	weight BW	lbs			115	200	470	750	1250	1800
		kg			52	91	213	340	567	816



swing check valves

asme class 1500.
size 2" - 12"

Fig. No:

WB15R

Flanged RF

WB15J

Flanged RTJ

WB15B

Weld Ends.

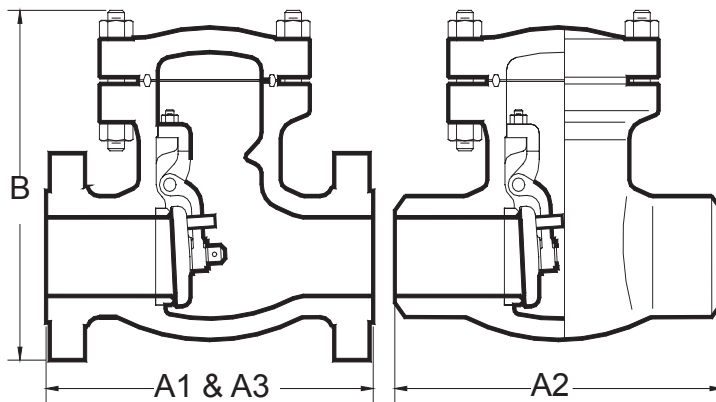


Fig. WB15R (A1)

Fig. WB15B (A2)

Fig. WB15J (A3)

THROUGH OR BLIND BOLT

FEATURES

- Anti - Rotation disc.
- Full range of body materials.
-See page BB-6 to BB-9
- Full range of trim materials.
-See page BB-10 to BB-11
- Flanged or butt weld ends.
- Full port design according to ASME B16.34 Annex A.
- Renewable seat rings - seal welded.
- Meet design requirements of ASME B16.34
- Ring joint cap jacket standard.
- Internal hinge pin standard.
- Horizontal or vertical service.
- For bonnet gasket, packing material and bolting material -See page BB-4

dim	description		2	3	4	6	8	10	12	14	18
A1	face to face RF	in	14.5	18.5	21.5	27.75	32.75	39.0	44.5	49.5	60.5
		mm	368	470	546	705	832	991	1130	1257	1538
A2	end to end BW	in	14.5	18.5	21.5	27.75	32.75	39.0	44.5	49.5	60.5
		mm	368	470	546	705	832	991	1130	1257	1538
A3	face to face RTJ	in	14.63	18.63	21.63	28.0	33.13	39.38	45.13	50.25	61.38
		mm	372	473	549	711	842	1000	1146	1277	1559
B	end to top	in	15	18	21	27	34	39.0	47	40	58
		mm	387	457	537	683	867	991	1197	1016	1474
	weight RF / RTJ	lbs	230	380	590	1328	2100	3500	4800	5511	9590
		kg	104	172	268	602	952	1587	2177	2500	4350
	weight BW	lbs	173	307	460	1108	1600	2650	3500	4630	7937
		kg	78	139	209	502	726	1202	1587	2100	3600

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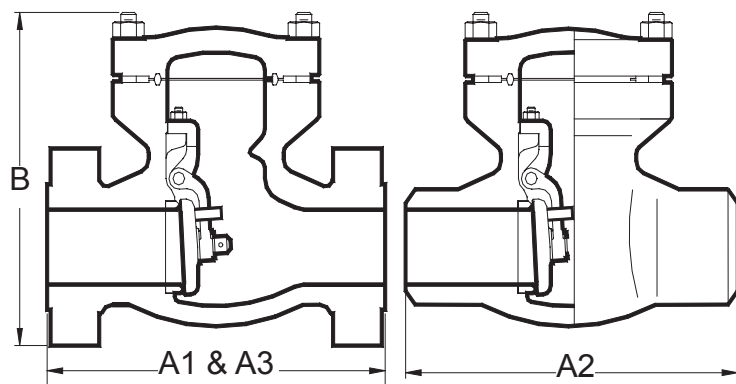


Fig. WB25R (A1)
Fig. WB25J (A3)

Fig. WB25B (A2)

Fig. No:

WB25R

Flanged RF

WB25J

Flanged RTJ

WB25B

Weld Ends.

FEATURES

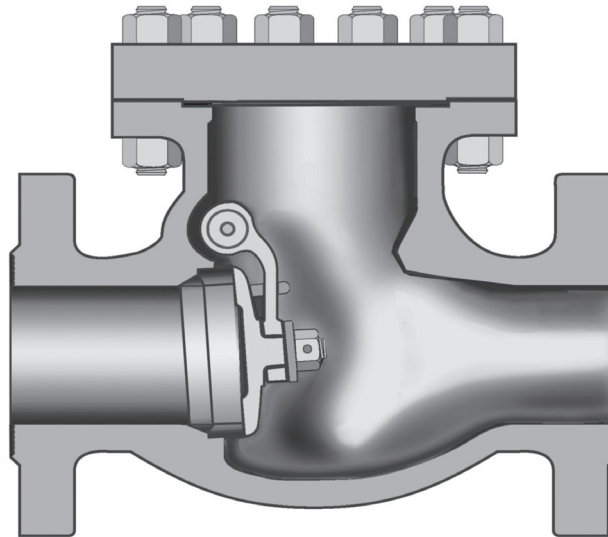
- Anti - Rotation disc.
- Full range of body materials.
-See page BB-6 to BB-9
- Full range of trim materials.
-See page BB-10 to BB-11
- Flanged or butt weld ends.
- Full port design according to ASME B16.34 Annex A.
- Renewable seat rings - seal welded.
- Meet design requirements of ASME B16.34
- Ring joint cap jacket standard.
- Internal hinge pin standard.
- Horizontal or vertical service.
- For bonnet gasket, packing material and bolting material -See page BB-4

dim	description		2	3	4	6
A1	face to face RF	in	17.75	22.75	26.5	36.0
		mm	451	578	673	914
A2	end to end BW	in	11	14.5	18.00	24.00
		mm	279	368	457	610
A3	face to face RTJ	in	17.88	23.0	26.88	36.5
		mm	454	584	683	927
B	end to top	in	12.5	15.9	18.0	26.50
		mm	318	404	457	673
	weight RF / RTJ	lbs	316	450	600	1491
		kg	147	205	273	678
	weight BW	lbs	173	307	391	942
		kg	78	139	178	428



Swing check valves

Swing check valves are used to prevent flow reversal in piping systems. They are suitable for service in horizontal or vertical (flow up through valve only) piping runs. Swing check valves have low pressure drop and are best suited for moderate velocity applications. Correct sizing of swing check valves is important (see Technical Data section for minimum allowable flow velocity). Either too low a line velocity or too high a velocity can damage valve internals and shorten valve life. Service in systems involving rapid and frequent flow reversals, pulsation or turbulent flow should be avoided. Relocating swing check valves within the piping system can often minimize or eliminate problems caused by this type of application. Consult plant for recommendations .



Selection

Type and size – Select the best type of swing check valve for the intended service. Valves may be sized to match existing lines, but swing check valves should also be sized according to flow conditions for maximum service life.

Ratings – Valves must only be used in operating conditions within the appropriate ASME pressure-temperature ratings for valve class rating and body/bonnet material (see Technical Data section).

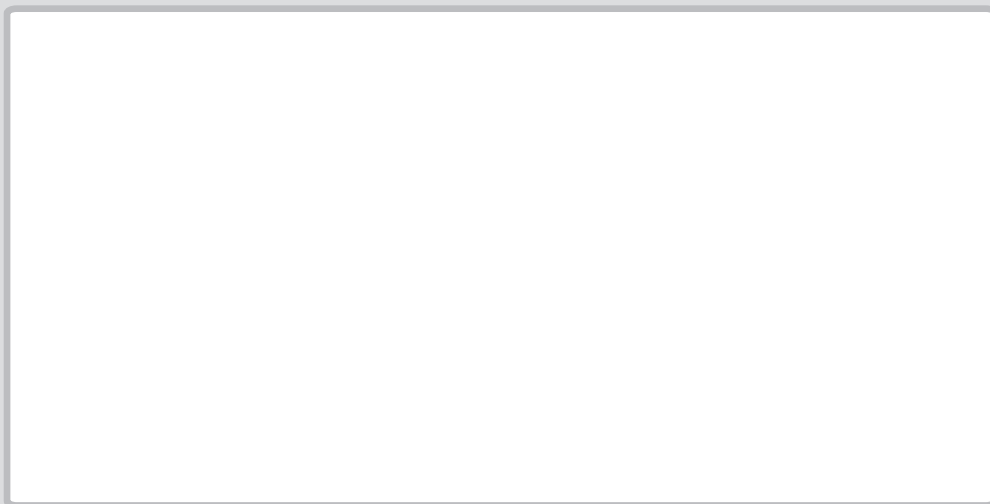
Temperature limitations – Only use valves within the temperature limitations of their construction. Temperature limitations of body/bonnet materials, trim, bolting, packing and gaskets must all be considered. Special construction for extended service temperatures are available on application.

Material and service – Bolted bonnet valves are available in a variety of body/bonnet materials and trims. See pages BB -6 to BB -11. Consult plant for specific service recommendations.

[illegible]



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