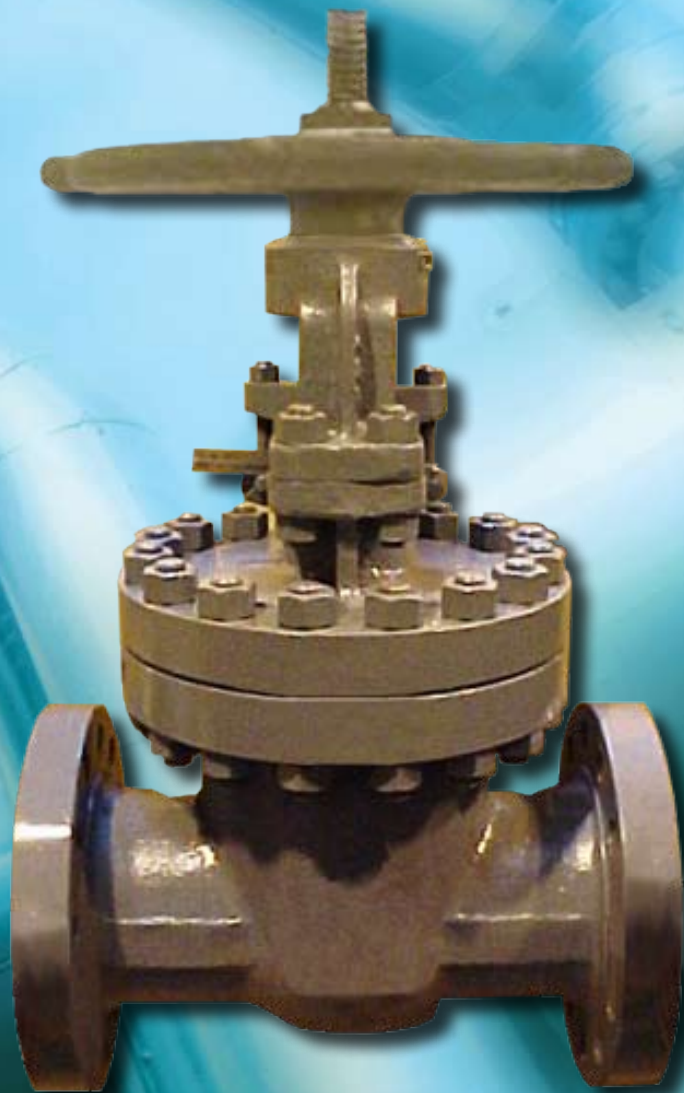




***Cast Steel Flex Wedge
Gate Valves for Boiler Applications
Pressure Classes 150/300/600***



Experience In Motion

Preface

Cast steel flex wedge gate valves for boiler applications. Body materials include A216-WCB and A217-WC9. Seating surfaces are Stellite.

The major components and assemblies for the valves listed in this catalog are globally sourced. The valves are inspected, final assembled and tested at Flowserve - Raleigh and include the Flowserve warranty.

Power-actuated valves include actuators selected and added to the final assemblies by Flowserve - Raleigh.

For further information on these Flowserve products, please consult your Flowserve - Raleigh sales representative.

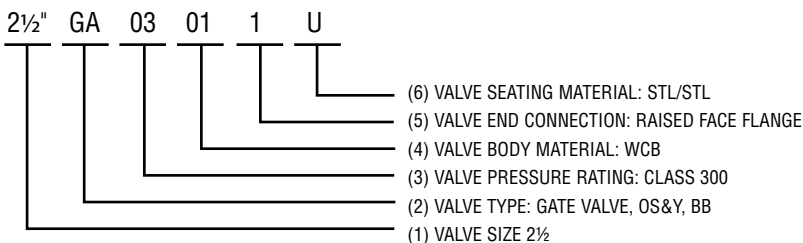
Valve Figure Description - How to Order

Figure numbers are designed to cover essential features. When ordering, please show figure numbers to preclude any misunderstanding of your requirements. A detailed description for specials must always accompany your order.

The following description may provide a basic guideline in the specification of valves:

Size (1)	Type (2)	Pressure Rating (3)	Body Materials (4)	End Connection (5)	Seating Code (Disc/Body) (6)
2 ½"	GA-Gate Valve OS&Y, BB	01-CLASS 150	01-WCB; A105	1-Raised Face Flange	U-STL/STL (STELLITE)
		03-CLASS 300	09-WC9; F22	3-Butt Welding	
	GP-Gate Valve OS&Y, Pressure Seal	06-CLASS 600			
		09-CLASS 900			
12"		15-CLASS 1500			

EXAMPLE: 2"GA03011XU



Notes:

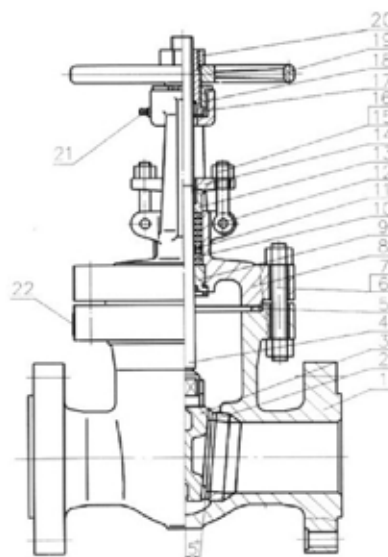
1. All the cast steel gate valves are provided with flexible wedge gate.
2. Design and construction details are subject to change without notice.

Gate Valve

Pressure Classes 150/300/600

Trim Material

Seating Code	Seat Ring Surface Part No. 2	Wedge Seat Surface Part No. 3	Stem Part No. 4	Backseat Bushing Part No. 9
U	Stellite	Stellite	F6	F6



Standard Material Specifications

Part Name	Carbon Steel to ASTM	Alloy Steel to ASTM
1 Body	A216WCB	A217WC9
8 Bonnet	A216WCB	A217WC9
6 Bolts	A193B7	A193B16
7 Nuts	A1942H	A1944
11 Lantern*	410	410
12 Pins	Steel	Steel
13 Gland	A182F6	A182F6
14 Gland Flange	A105	A105
15 Gland Eyebolts	A193B7	A193B7
16 Nuts	A1942H	A1942H
5 Gasket	SS Spiral Wound W/Graphite	
10 Packing	Braided Graphite or Dieformed Graphite Ring	
17 Stem Nut	A439-D2 or A276-410	
18 Lock Nut	Steel	
19 Handwheel	Ductile Iron	
20 Handwheel Nut	Steel	
21 Lubricator	Steel	
22 Nameplate	Stainless Steel or Aluminum	

* Class 150 gate valve is not provided with Lantern.

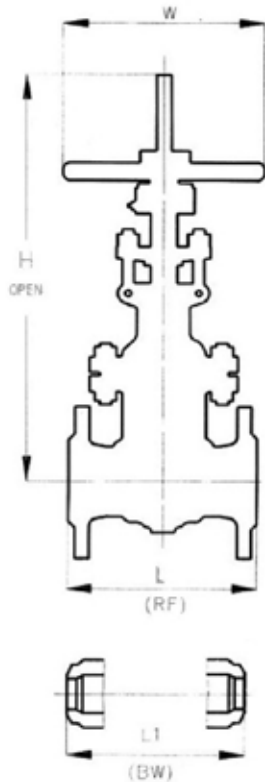
Gate Valve

Pressure Class 150

Figures:

GA01011U GA01091U
 GA01013U GA01093U

OS&Y, Rising Stem, Flexible Solid Wedge
 Bolted Bonnet, Welded Seat Ring



STANDARDS COMPLIANCE:

Basic Design: API 600 and ASME B16.34

Face-to-Face Dimension: ANSI B16.10

End-to-End Dimension: ANSI B16.10

End Flange Dimension:

2-1/2" - 12" to ANSI B16.5

B.W. Ends to ANSI B16.25 or Customer Requirement

Shell Wall Thickness:

2-1/2" - 12" to API 600 and ASME B16.34

Dimensions and Weights

NPS DN	in mm	2-1/2 65	3 80	4 100	6 150	8 200	10 250	12 300
L (RF)	in mm	7-1/2 190	8 203	9 229	10-1/2 267	11-1/2 292	13 330	14 356
L1 (BW)	in mm	9-1/2 241	11-1/8 283	12 305	15-7/8 403	16-1/2 419	18 457	19-3/4 502
H OPEN	in mm	18-9/16 472	20-15/16 532	24-1/8 612	31-3/4 806	39 990	46-11/16 1186	55-5/16 1405
W	in mm	7-7/8 200	9-7/8 250	9-7/8 250	11-13/16 300	13-3/4 350	17-11/16 450	19-11/16 500
WT KG LB	RF	25 55	31 68	45 99	73 161	111 244	179 394	262 576
KG LB	BW	22 48	27 59	43 95	64 141	99 218	162 356	240 528
Cv		390	550	1025	2420	4860	7615	11,400

Gate Valve

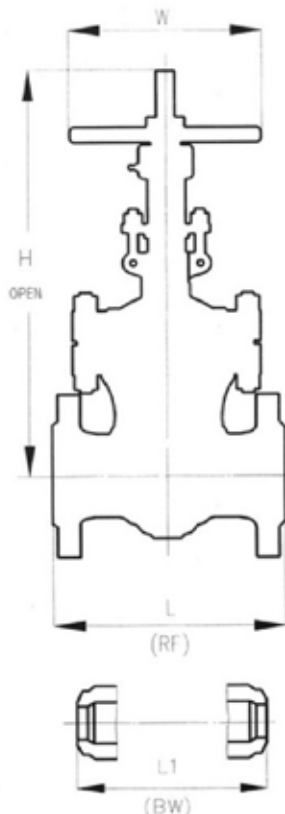
Pressure Class 300

Figures:

GA03011U GA03091U

GA03013U GA03093U

OS&Y, Rising Stem, Flexible Solid Wedge
Bolted Bonnet, Welded Seat Ring



STANDARDS COMPLIANCE:

Basic Design: API 600 and ASME B16.34

Face-to-Face Dimension: ANSI B16.10

End-to-End Dimension: ANSI B16.10

End Flange Dimension:

2-1/2" - 12" to ANSI B16.5

B.W. Ends to ANSI B16.25 or Customer Requirement

Shell Wall Thickness:

2-1/2" - 12" to API 600 and ASME B16.34

Dimensions and Weights

NPS DN	in mm	2-1/2 65	3 80	4 100	6 150	8 200	10 250	12 300
L-L1 (RF-BW)	in mm	9-1/2 241	11-1/8 283	12 305	15-7/8 403	16-1/2 419	18 457	19-3/4 502
H OPEN	in mm	18-3/4 477	21-3/8 543	25-5/8 650	34-5/8 880	40-13/16 1037	50-3/16 1275	56-5/8 1438
W	in mm	9-7/8 250	9-7/8 250	11-13/16 300	13-3/4 350	17-11/16 450	19-11/16 500	22-1/16 560
WT KG LB	RF BW	36 79	48 106	73 161	139 306	207 455	311 684	427 939
KG LB		31 68	40 88	58 128	120 264	175 385	250 550	335 737
Cv		390	550	1025	2420	4860	7615	11,400

Gate Valve

Pressure Class 600

Figures:

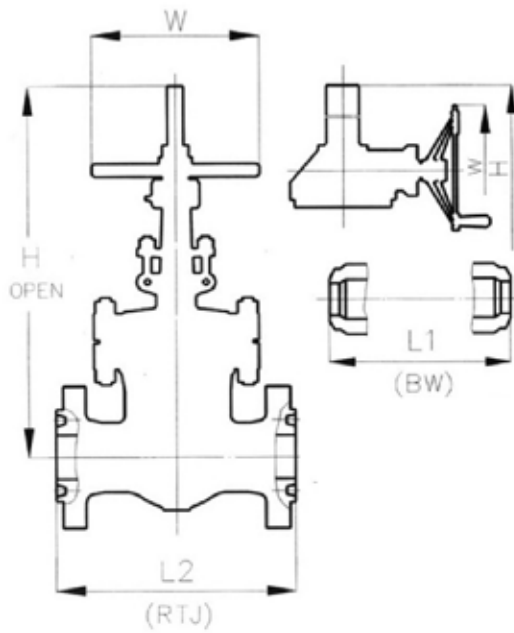
GA06011U

GA06091U

GA06013U

GA06093U

OS&Y, Rising Stem, Flexible Solid Wedge
Bolted Bonnet, Threaded or Welded Seat Ring



STANDARDS COMPLIANCE:

Basic Design: API 600 and ASME B16.34

Face-to-Face Dimension: ANSI B16.10

End-to-End Dimension: ANSI B16.10

End Flange Dimension:

2-1/2" - 12" to ANSI B16.5

B.W. Ends to ANSI B16.25 or Customer Requirement

Shell Wall Thickness:

2-1/2" - 12" to API 600 and ASME B16.34

Dimensions and Weights

NPS DN	in mm	2-1/2 65	3 80	4 100	6 150	8 200	10 250	12 300
L-L1 (RF-BW)	in mm	13 330	14 356	17 432	22 559	26 660	31 787	33 838
H OPEN	in mm	21-3/4 553	23-3/8 593	28-1/16 713	38-3/16 970	44-3/16 1122	52-3/8 1330	59-13/16 1519
W	in mm	9-7/8 250	11-13/16 300	13-3/4 350	19-11/16 500	22-1/16 560	26-3/8 720	24 610
WT KG LB	RF	51 112	68 150	122 268	255 561	400 880	638 1404	852 1874
KG LB		BW	43 95	53 117	105 231	210 462	415 913	510 1122
Cv		390	550	1025	2420	4715	7255	10,875

Maintenance

FLOWSERVE EDWARD VALVES ON-SITE FIELD SERVICE REPAIR CAPABILITIES

Flowserve is totally committed to customer service satisfaction. Our entire manufacturing operation guarantees we will stand behind all field service repair work to maximize customer support.

OUR FACILITY OFFERS

- Mobile machine shop trailer for on-site repairs
- After-hours plant-based service team for around-the-clock coverage
- Expertly trained field service personnel capable of handling any size field service job
- Special equipment for seat refinishing, body boring, welding and stress relieving
- In-house valve repair and return remanufacturing to original specifications with new valve warranty
- Experience in turnkey jobs to help the customer with one-stop shopping
- 180,000-square-foot manufacturing facility with state-of-the-art machining and engineering capability and ISO 9001 certification
- Flowserve-Raleigh is ISO 9001 certified
- Flowserve-Raleigh is authorized by ASME to use the "NR" symbol

Staying online with Flowserve

We design and manufacture all our valves for 40 years' life in the field. That means not just building a reliable product, but ensuring it is easy to maintain and service. It also means providing a team of experienced, dedicated professionals to keep your Flowserve valves operating at peak performance.

Highly Experienced Technicians

Flowserve brings unmatched experience to the field. Our service technicians have an average of 20 years in the industry, and 15 years with Flowserve. Each has special skills, such as welding and machining, that we can target for the needs of the individual job.

Comprehensive Record-Keeping

Our files include original specifications for every Flowserve valve sold since 1908. All valves are coded for easy identification. On new and replacement orders, Flowserve stands ready to provide the complete lot-traceability required for nuclear and other critical services.

In-Line Service

We are dedicated to on-site service whenever possible. To this end, we not only provide highly experienced, expert personnel, but we also support those technicians with field equipment, including portable boring, lapping, welding and weld-cutting machines. Major parts, such as disks or bonnets, can be air-shipped back to the factory for service and repaired while service personnel perform other tasks.

Parts Replacement

Our comprehensive record-keeping system also facilitates replacement of parts. Our computer database can quickly tell us if we have the part in stock or on order, or how we can best coordinate raw materials and factory resources for the quickest possible turnaround time.

New 90-Day Warranty

On all valves repaired to Flowserve's standards, we will issue a new 90-day warranty.

Factory Repair & Upgrading

Our After-Hours Coverage Team (AHCT) specialists are on-call around the clock, seven days a week, to deliver on our commitment to provide immediate response to our customers' requirements. Whether your requirements are for a planned outage, preventive maintenance or an emergency demand, Flowserve will remanufacture or upgrade valves to the original or most current specification. Our in-house engineering and quality assurance support is committed to meet the required turnaround time.

Planned & Emergency Outages

Our service managers will coordinate scheduled maintenance and also get technical assistance to your facility quickly for emergency needs.

**Phone Toll-Free
24 Hours a Day
365 Days a Year
(Day) 1-800-225-6989
(Night) 1-800-543-3927**





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FCD EVENCT0006-00 09/08

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