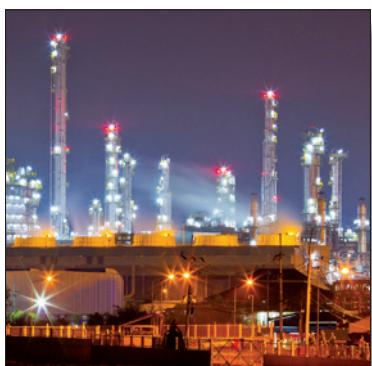




**SCV VALVE**  
Innovative Valve Solutions®



## Bolted Bonnet Globe Valves - BS1873 & B16.34

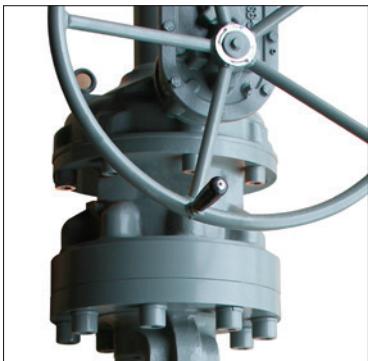
Class: 150 - 2500

Sizes: 2" - 18"





**SCV VALVE** manufactures superior cast body, bolted bonnet globe valves in a variety of materials, trims, packing types, sizes [2" thru 18"] and pressure classes [150 thru 2500]. The mechanical characteristics [moveable disc and stationary seat ring] make the SCV globe valve ideal for repeatable pipeline unidirectional throttling applications and frequent operation.



The valve design conforms to API 598 and B16.34. Face-to-face and end-to-end dimensions conform to ANSI B16.5 and B16.25.



**Innovative Valve Solutions.®**



# SCV Bolted Bonnet Globe Valves

## Bolted Bonnet Globe Valve - BS1873 & B16.34

- Basic Design: BS 1873 & ANSI/ASME B 16.34
- Wall Thickness: BS 1873 & ANSI/ASME B 16.34
- Face-to-Face Dimension: ANSI/ASME B16.10
- Flange End Dimension: ANSI/ASME B16.5
- Butt-Weld End Dimension: ANSI/ASME B16.25
- Inspection & Testing: API 598



**Note:** SCV reserves the right to change any technical design and dimensional data without prior notice. Please contact SCV to confirm all Dimensions and Data offered in this catalog.



SCV Valve's product lines include commodity valves as well as specialty valves in all sizes, pressure classes & metallurgy; including carbon steel, stainless steel & exotic alloys. The valve types include:

- Thru Conduit Gates - Slab & Expanding Gate Designs
- 3-Piece Trunnion Mounted Balls
- Floating Balls
- Wedge Gates
- Globes
- Full Port Swing Checks
- Piston Checks
- Dual Plate Checks - Wafer & Lug Designs
- Pressure Balanced Lubricated Plugs

SCV Valve's high quality standards demand 100% pressure testing of every valve to insure its reliability and full customer satisfaction. We pride ourselves with high quality products, timely deliveries, and competitive prices.

## Company History

The SCV valve brand was established in 1972. The primary focus of the Company was to provide full inline field service for valve maintenance as well as in house valve modifications. While serving the Power Industry, Paper & Pulp, Oil & Gas, and the Petro Chemical Industry; through years of dedication and commitment to quality and service, SCV had become one of the largest full range, field service companies, with a reputation for superior quality.

In the mid 1970s, the SCV brand entered the valve manufacturing industry, primarily serving the Power Industry. Since that time, the SCV brand has expanded its products to cover a broad range of valves. SCV Valve holds the API 6A & API 6D Monogram, API Q1 Quality Management System, and ASME "R" stamp. The manufacturing facility, sales and projects office is located in Santa Fe, Texas.

## Mission Statement

SCV Valve is committed to consistently providing products that meet or exceed customer and regulatory specifications. SCV Valve aims to enhance customer satisfaction through implementing the highest levels of quality standards while assuring full conformity to those requirements.

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# Complete Product Line

Call SCV Valve today @ [281] 482-4728 for all your valve needs or visit us on the web @ [www.scvalve.com](http://www.scvalve.com).

## THRU CONDUIT GATES - SLAB & EXPANDING

### Design: API 6D

Sizes: 2" - 42"

Class: 150 - 1500

Standard stock.

### Design: API 6A

Sizes: 9", 11" & 13-5/8"

Pressure: 2000, 3000, 5000

Limited inventory availability.

All sizes and pressure classes made to order.



## PISTON CHECKS

### Design: API 6D

Sizes: 2" - 24"

Class: 150 - 2500

Standard stock.

## 3-PIECE TRUNNION BALLS

### Design: API 6D

Sizes: 2" - 42"

Class: 150 - 2500

Standard stock.

### Design: API 6A

Sizes: 2-1/16" - 7-1/6"

Pressure: 2000, 3000, 5000

Limited inventory availability.

All sizes and pressure classes made to order.



## GLOBES

### Design: API 623

Sizes: 2" - 24"

Class: 150 - 2500

Limited inventory availability.

All sizes and pressure classes made to order.



## FULL PORT SWING CHECKS

### Design: API 6D

Sizes: 2" - 36"

Class: 150 - 2500

Standard stock.



## WEDGE GATES

### Design: API 600

Sizes: 2" - 48"

Class: 150 - 2500

Limited inventory availability. All sizes and pressure classes made to order.



## FLOATING BALL VALVES

### Design: B16.34

Sizes: 1/2" - 12"

Class: 150 - 1500

Standard stock.



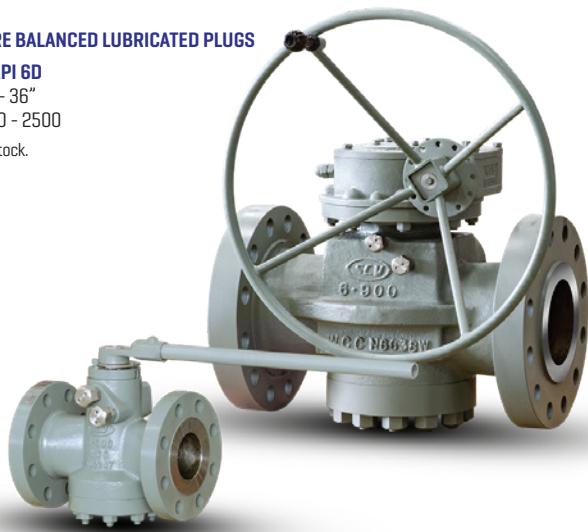
## PRESSURE BALANCED LUBRICATED PLUGS

### Design: API 6D

Sizes: 2" - 36"

Class: 150 - 2500

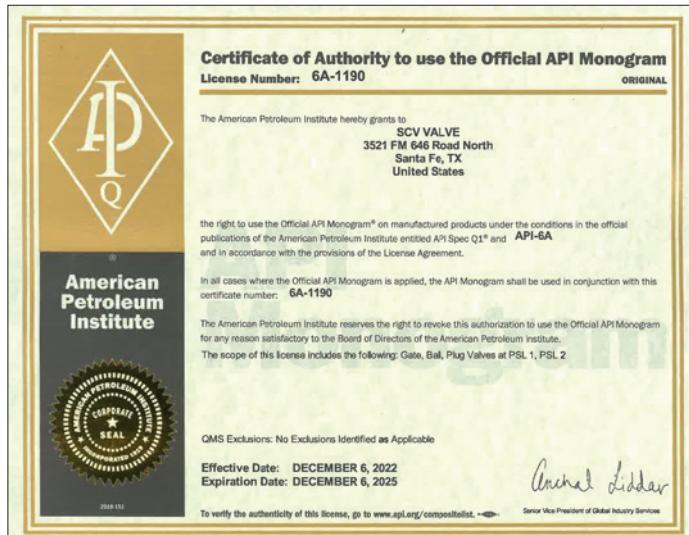
Standard stock.



# Certifications & Registrations

## American Petroleum Institute (API)

### API 6A Certification



Note: Extension letter available on our website.

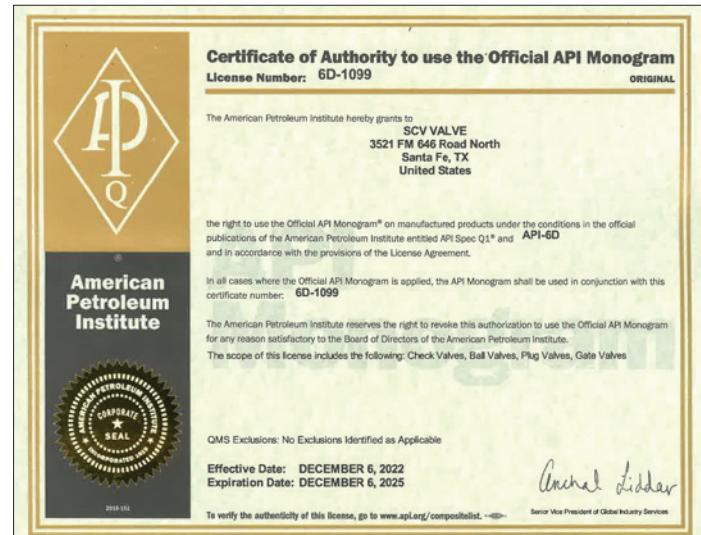
### ISO 9001:2015 Certificate



### Canadian Registration Number

Alberta - OC07063.2	New Brunswick - OC07063.27	Northwest Territory - OC07063.25	Nunavut - OC07063.2N	Ontario - OC07063.25	Yukon - OC07063.22
British Columbia - OC07063.21	Newfoundland & Labrador - OC07063.20	Novascotia - OC07063.27	Manitoba - OC07063.24	Prince Edward Island - OC07063.29	

### API 6D Certification



Note: Extension letter available on our website.

### CE PED Certificate



## SCV Figure Number Chart

**Note:** SCV Figure Chart is subject to change without notice.

9

10

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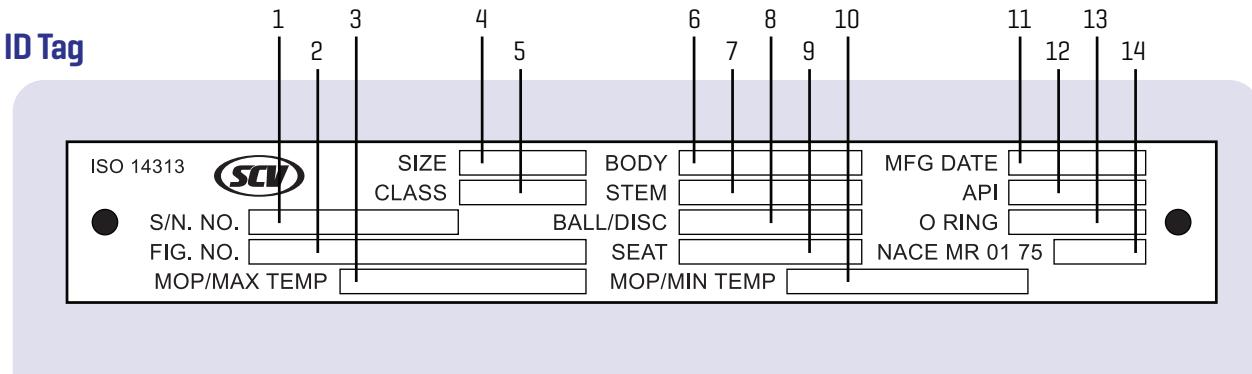
## Sample Figure Numbers & Descriptions

**Note:** Subject to change without notice.

Control #: MSF 3.5-16 rev 17

# Valve ID Tag & Valve Markings Identification

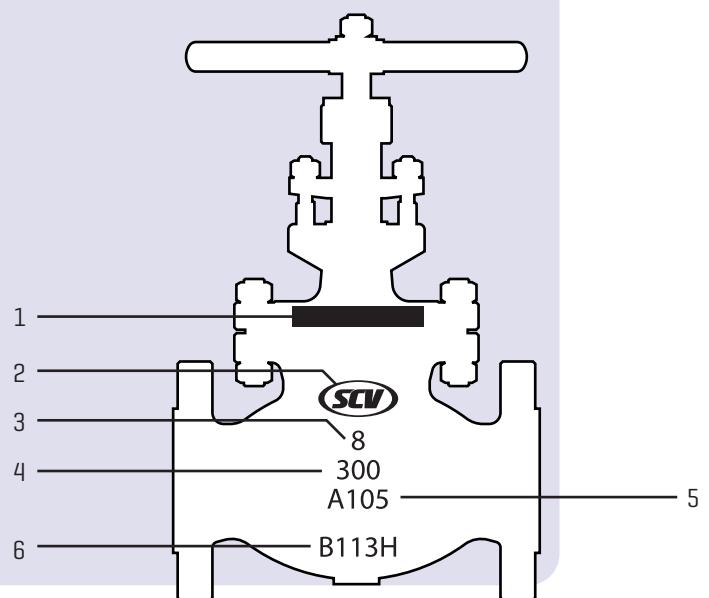
## Valve ID Tag



No.	Figure Number Code	Description
1	Serial Number	Identifies certified manufacturers serial number
2	Figure Number	Identifies the detailed valve configuration [valve type, bore size, pressure class, materials, etc.]
3	MOP/Max. Temp.	Identifies the maximum operating pressure in PSI and maximum operating temperature in Fahrenheit
4	Size	Identifies bore size
5	Pressure Class	Identifies pressure classifications per API requirements
6	Body Material	Identifies body metal material composition [A105, WCB, F51, CF8M, etc.]
7	Stem Material	Identifies stem material material composition [A105, 410SS, 17-4ph, etc.]
8	Ball/Disc Material	Identifies ball/disc material composition [A105, 316SS, ENP, etc.]
9	Seat Material	Identifies seat material composition [PEEK, Teflon, Nylon, etc.]
10	MOP/Min. Temp.	Identifies the maximum operating pressure in PSI and minimum operating temperature in Fahrenheit
11	Manufacturing Date	Identifies the date the valve manufacturing completion date
12	API Conformance	Identifies API conformance [600, 6D, 6A, etc.]
13	O Ring	Identifies the O Ring material composition [Viton, Viton GLT, etc.]
14	NACE MR 01 75	Identifies corrosion resistance

## Valve Markings

No.	Valve ID Components
1	Tag
2	Brand
3	Size
4	Pressure Class
5	Body Material
6	Heat Number



**Note:** SCV reserves the right to modify our products for improvement without prior notice.



## Bolted Bonnet Globe Valves

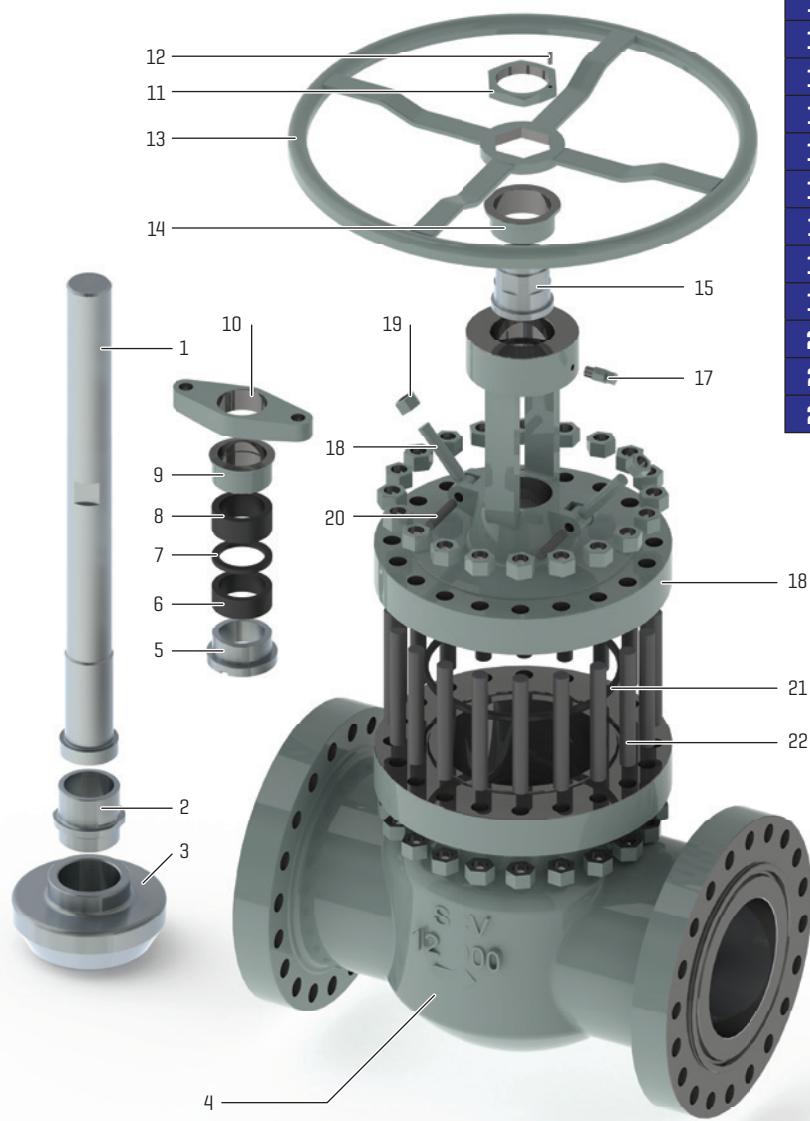
Class: 150 - 2500/Sizes: 2" - 18"

Design and Manufacturing Standards	
Basic Design	API 623
Wall Thickness	API 623
Face-to-Face Dimension	ANSI/ASME B16.10
Flange End Dimension	ANSI/ASME B16.5
Butt-Weld End Dimension	ANSI/ASME B16.25
Inspection & Testing	API 598



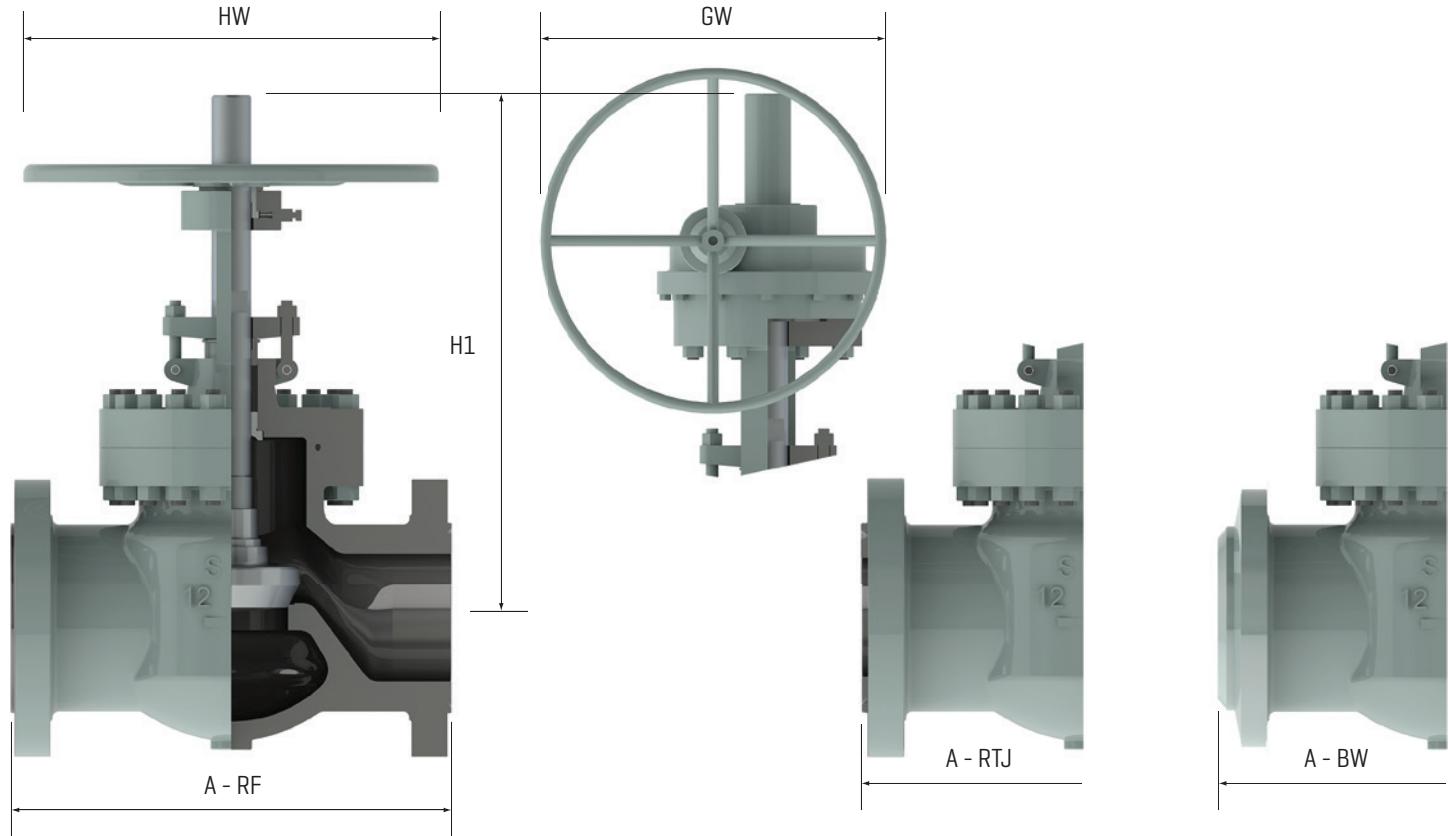
# Bolted Bonnet Globe Valves - BS1873, B16.34

No	Part	Material
1	Stem	ASTM A182 GR F6a
2	Disc Nut	ASTM A276 Type 410
3	Disc	ASTM A105 + 1 Cr13
4	Body	ASTM A216 GR WCB
5	Bonnet Bushing	ASTM A276 Type 410
6	Packing Spacer	Graphite
7	Packing Washer	Graphite
8	Packing	Graphite
9	Gland	ASTM A276 Type 410
10	Gland Flange	ASTM A216 GR WCB
11	Nut	ASTM A194 2HM
12	Set Screw	Carbon Steel
13	Handwheel	Ductile Iron
14	Locking Nut	ASTM A439 GR D-2
15	Stem Nut	Copper Alloy
16	Bonnet	ASTM A216 GR WCB
17	Grease Fitting	316 Stainless Steel
18	Eye Bolt	ASTM A193 B7M
19	Heavy Hex Nut	ASTM A194 2HM
20	Gland Pin	Carbon Steel
21	RTJ Gasket	Soft Iron
22	Stud	ASTM A193 B7M



# Bolted Bonnet Globe Valves

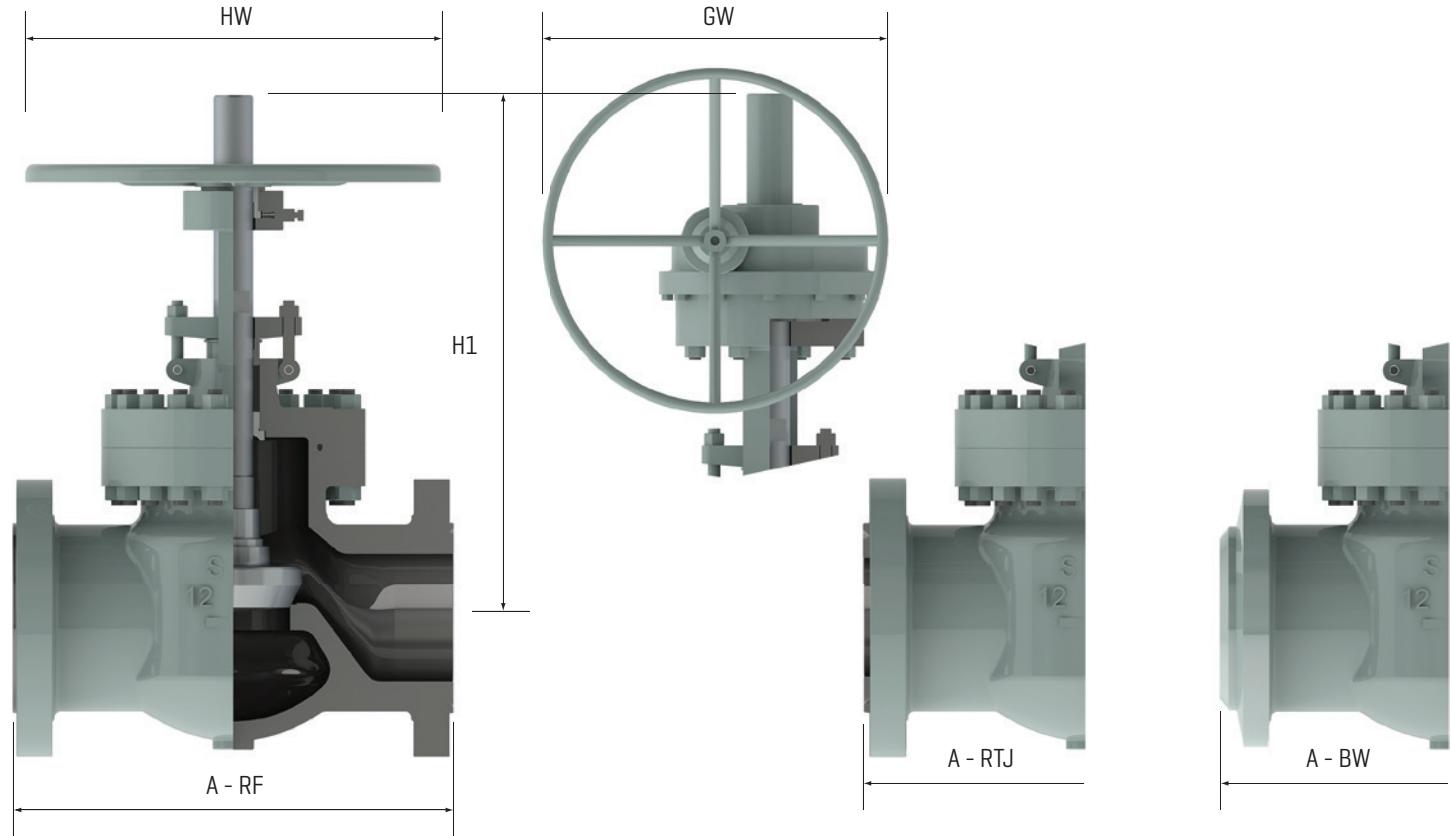
Size: 2" - 18" Class: 150



CLASS 150	SIZE		END-TO-END			H1	HW	GW	WEIGHTS LBS/KG	
			A - RF	A - RTJ	A - BW				FLANGED	
	IN	2	8.0	8.5	8.0	13.58	8	/	48	
MM	50		203	216	203	345	200	/	22	
IN	2.5		8.5	9.0	8.5	16.34	8	/	70	
MM	65		216	229	216	415	200	/	32	
IN	3		9.5	10.0	9.5	15.94	10	/	83	
MM	80		241	254	241	405	250	/	38	
IN	4		11.5	12.0	11.5	19.09	12	/	136	
MM	100		292	305	292	485	300	/	62	
IN	6		16.0	16.5	16.0	20.47	14	/	229	
MM	150		406	419	406	520	350	/	104	
IN	8		19.5	20.0	19.5	23.62	18	/	350	
MM	200		495	508	495	600	450	/	159	
IN	10		24.5	25.0	24.5	30.0	20	/	679	
MM	250		622	635	622	762	500	/	308	
IN	12		27.5	28.0	27.5	33.94	25	/	1188	
MM	300		698	711	698	862	640	/	539	
IN	14		31.0	31.5	31.0	38.58	25	/	1344	
MM	350		787	800	787	980	640	/	610	
IN	16		36.0	36.5	36.0	47.05	/	24*	1940	
MM	400		914	927	914	1195	/	610*	880	
IN	18		38.5	39.0	38.5	51.18	/	24*	2535	
MM	450		978	991	978	1300	/	610*	1150	

# Bolted Bonnet Globe Valves

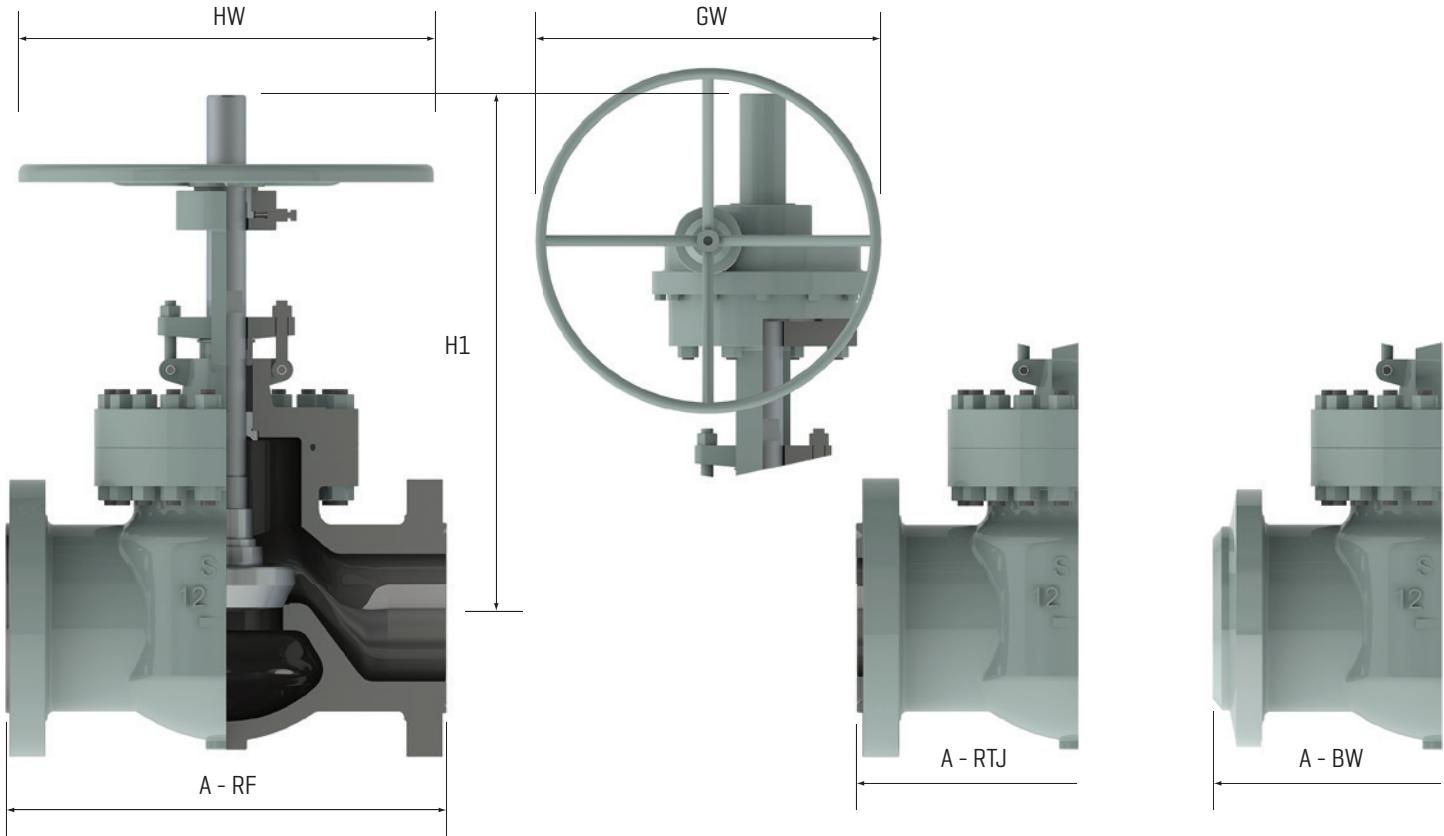
Size: 2" - 14" Class: 300



CLASS 300	SIZE		END-TO-END			H1	HW	GW	WEIGHTS LBS/KG	
			A - RF	A - RTJ	A - BW				FLANGED	
	IN	2	10.5	11.12	10.5	14.57	8	/	61	
MM	50		267	283	267	370	10	/	28	
IN	2.5		11.5	12.12	11.5	18.66	10	/	105	
MM	65		292	308	292	474	250	/	48	
IN	3		12.5	13.12	12.5	17.32	10	/	123	
MM	80		318	333	318	440	250	/	56	
IN	4		14.0	14.62	14.0	20.67	14	/	180	
MM	100		356	371	356	525	350	/	82	
IN	6		17.5	18.12	17.5	24.41	18	/	339	
MM	150		445	460	445	620	450	/	154	
IN	8		22.0	22.62	22.0	35.83	22	/	529	
MM	200		559	575	559	910	560	/	240	
IN	10		24.5	25.12	24.5	37.36	24	/	703	
MM	250		622	638	622	949	600	/	319	
IN	12		28.0	28.62	28.0	40.63	25	/	1393	
MM	300		711	727	711	1032	640	/	632	
IN	14		33.0	39.62	33.0	42.91	/	24	2149	
MM	350		838	838	838	1090	/	610	975	

# Bolted Bonnet Globe Valves

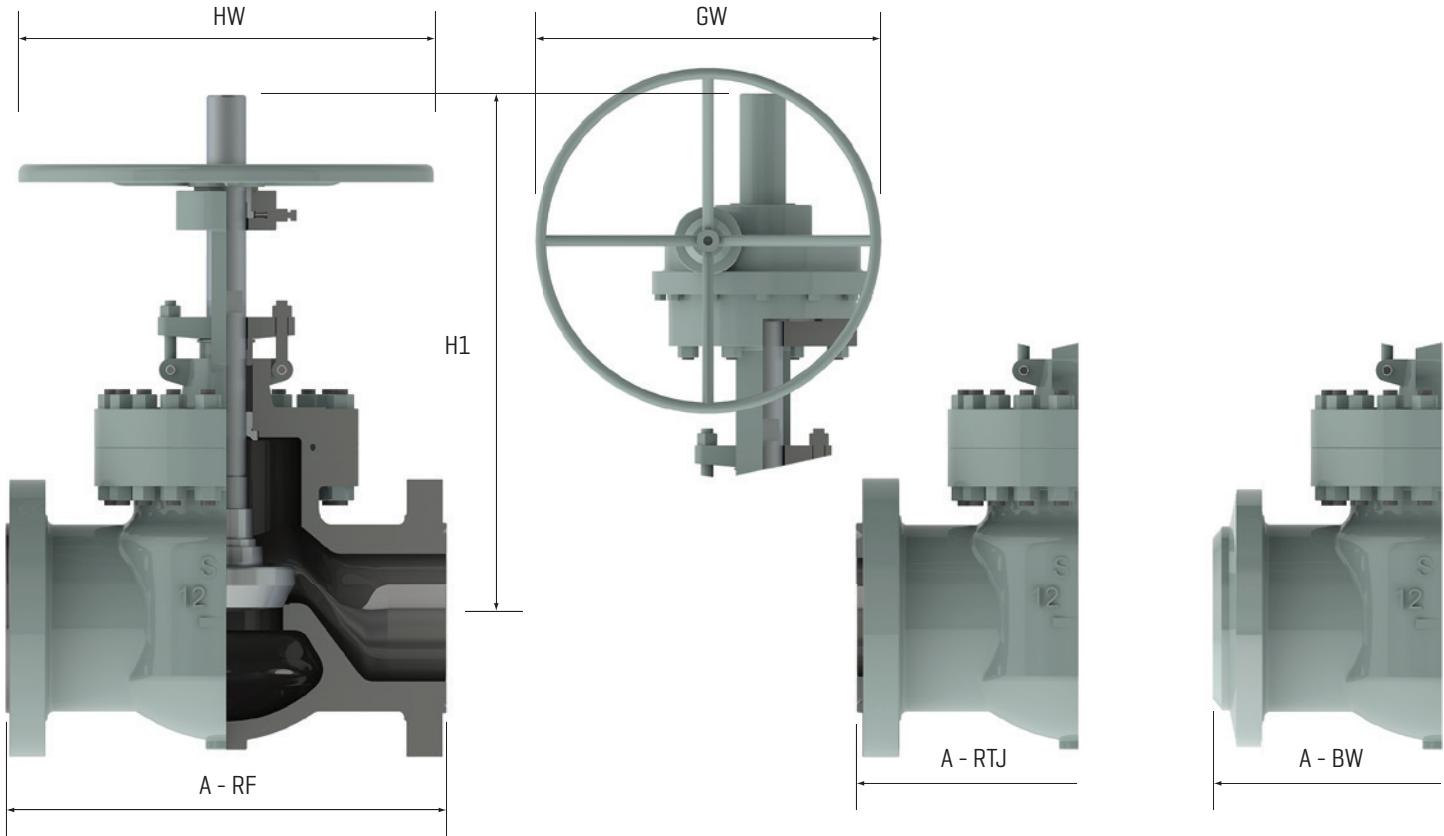
Size: 2" - 12" Class: 600



CLASS 600	SIZE		END-TO-END			H1	HW	GW	WEIGHTS LBS/KG	
			A - RF	A - RTJ	A - BW				FLANGED	
	IN	2	11.5	11.62	11.5	18.19	10	/	79	
	MM	50	292	295	292	462	250	/	36	
	IN	2.5	13.0	13.12	13.0	21.26	10	/	154	
	MM	65	330	333	330	540	250	/	70	
	IN	3	14.0	14.12	14.0	23.03	12	/	187	
	MM	80	356	359	356	585	350	/	85	
	IN	4	17.0	17.12	17.0	26.38	18	/	271	
	MM	100	432	435	432	670	450	/	123	
	IN	6	22.0	22.12	22.0	34.88	20	/	890	
	MM	150	559	562	559	886	500	/	404	
	IN	8	26.0	26.12	26.0	36.69	25	/	992	
	MM	200	660	664	660	932	640	/	450	
	IN	10	31.0	31.12	31.0	40.94	/	24	1543	
	MM	250	787	790	787	1040	/	610	700	
	IN	12	33.0	33.12	33.0	50.39	/	24	1984	
	MM	300	838	841	838	1280	/	610	900	

# Bolted Bonnet Globe Valves

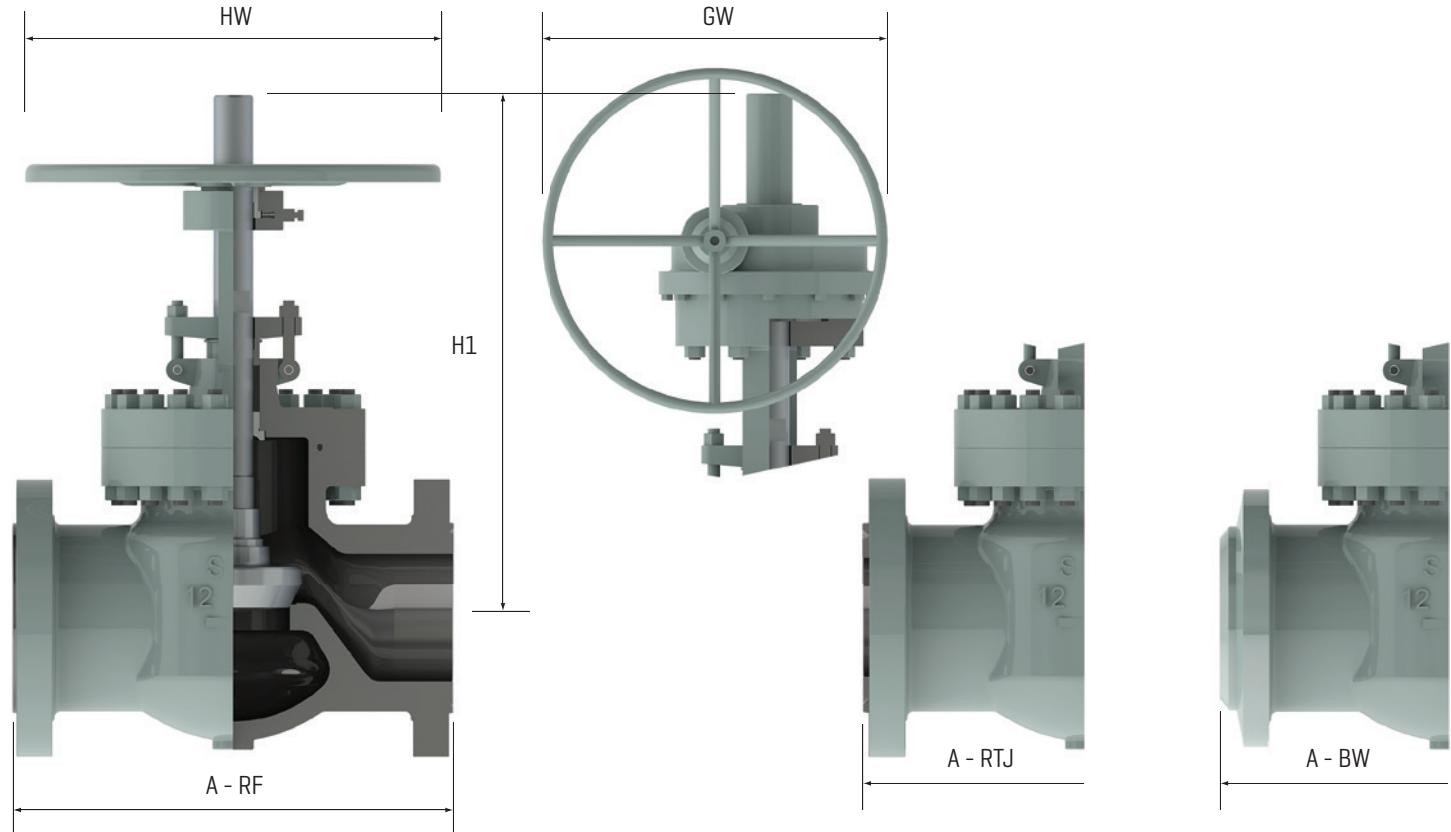
Size: 2" - 8" Class: 900



CLASS 900	SIZE		END-TO-END			H1	HW	GW	WEIGHTS LBS/KG	
			A - RF	A - RTJ	A - BW				FLANGED	UNFLANGED
	IN	2	14.5	14.62	14.5	23.62	14	/	209	195
	MM	50	368	371	368	600	350	/	95	85
	IN	2.5	16.5	16.62	16.5	25.98	14	/	304	280
	MM	65	419	422	419	660	350	/	138	125
	IN	3	15.0	15.12	15.0	26.18	18	/	268	245
	MM	80	381	384	381	665	450	/	122	110
	IN	4	18.0	18.12	18.0	31.50	20	/	429	395
	MM	100	457	460	457	800	500	/	195	175
	IN	6	24.0	24.12	24.0	43.62	/	24	959	850
	MM	150	610	613	610	1108	/	610	435	380
	IN	8	29.0	29.12	29.0	46.61	/	24	1609	1450
	MM	200	737	740	737	1184	/	610	730	650

# Bolted Bonnet Globe Valves

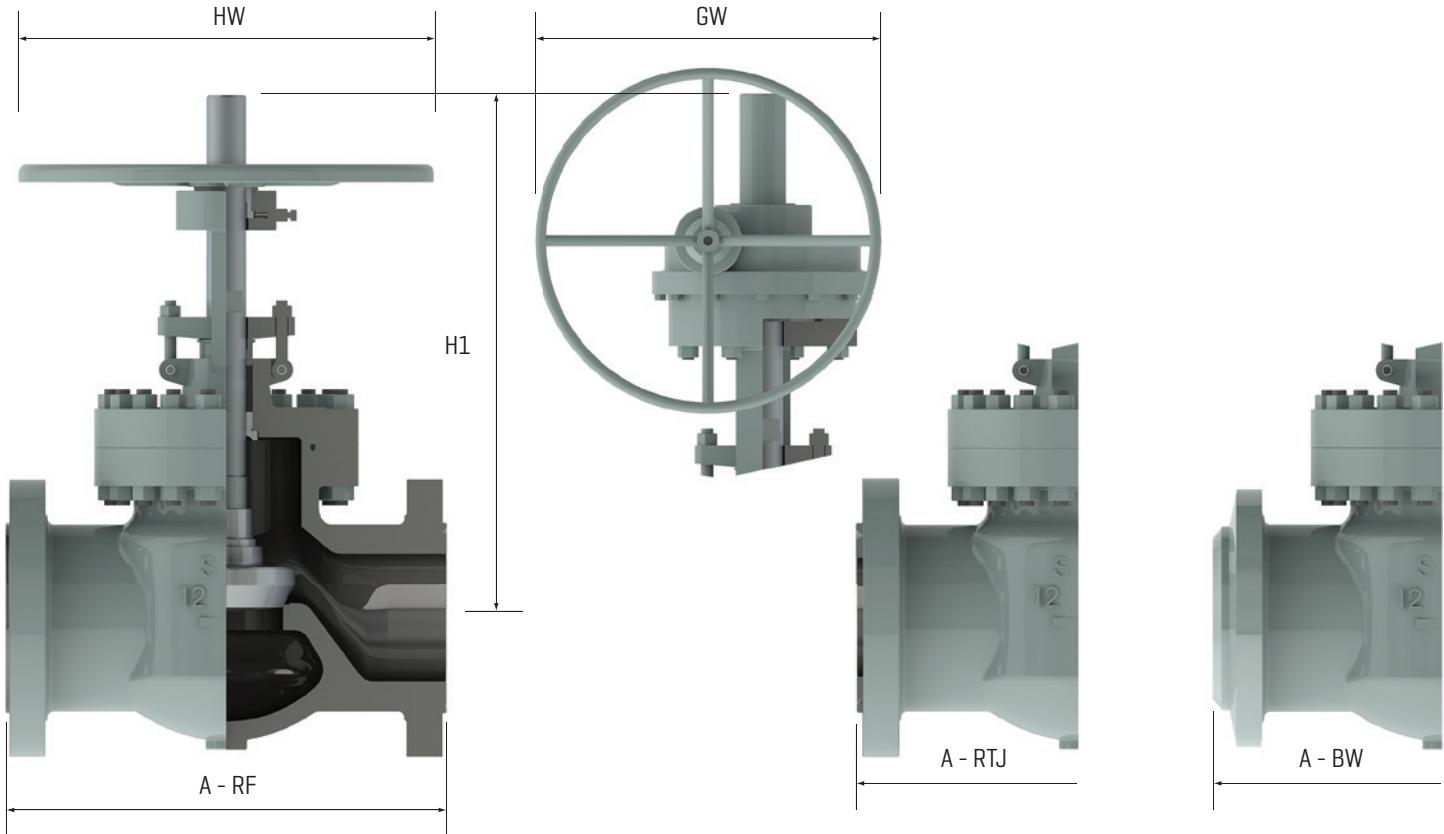
Size: 2" - 8" Class: 1500



CLASS 1500	SIZE		END-TO-END			H1	HW	GW	WEIGHTS LBS/KG	
			A - RF	A - RTJ	A - BW				FLANGED	
	IN	2	14.5	14.62	14.5	25.98	14	/	209	
MM	50		368	371	368	660	350	/	95	
IN	2.5		16.5	16.62	16.5	25.98	14	/	304	
MM	65		419	422	419	660	350	/	138	
IN	3		18.5	18.62	18.5	30.31	20	/	551	
MM	80		470	473	470	770	500	/	250	
IN	4		21.5	21.62	21.5	33.46	22	/	959	
MM	100		546	549	546	850	560	/	435	
IN	6		27.75	28.0	27.75	45.08	/	24	1190	
MM	150		705	711	705	1145	/	610	540	
IN	8		32.75	33.13	32.75	52.95	/	24	2138	
MM	200		832	841	832	1345	/	610	970	

# Bolted Bonnet Globe Valves

Size: 2" - 8" Class: 2500



CLASS 2500	SIZE		END-TO-END			H1	HW	GW	WEIGHTS LBS/KG	
			A - RF	A - RTJ	A - BW				FLANGED	
	IN	2	17.75	17.87	17.75	28.35	16	/	388	
MM	50		451	454	451	720	400	/	176	
IN	2.5		20.0	20.25	20.0	31.50	20	/	582	
MM	65		508	514	508	800	500	/	264	
IN	3		22.75	23.0	22.75	34.84	22	/	679	
MM	80		578	584	578	885	560	/	308	
IN	4		26.5	26.88	26.5	49.61	/	24*	1673	
MM	100		673	683	673	1260	/	610	759	
IN	6		36.0	36.5	36.0	75.00	/	24	4387	
MM	150		914	927	914	1905	/	610	1990	
IN	8		40.25	40.87	40.25	97.05	/	24	9678	
MM	200		1022	1038	1022	2465	/	610	4390	

# Bolted Bonnet Globe Valves

Size: 2" - 18" Class: 150 - 2500

## Flow Coefficients Cv Values

The Flow Coefficiency (Cv) of a valve is the rate of gallons per minute of water at 60° F through a fully opened valve at a pressure drop of 1 PSI across the valve.

Size	150	300	600	900	1500	2500
2	42	42	42	45	/	/
2.5	67	67	67	/	/	/
3	100	100	100	90	95	65
4	185	185	185	170	170	1005
6	440	440	440	400	395	265
8	810	810	780	710	695	470
10	1260	1260	1200	1100	1085	750
12	1890	1890	1810	/	/	1100
14	2441	2141	1960	/	/	1328
16	3234	3234	/	/	/	1737
18	4308	4183	/	/	/	2279

# Pressure Temperature Ratings - ASME B16.34

Note: Pressures in PSI

	Temp. F	A105	WCB	LF2	WCC	LCB	WC6	LCC	C5	C12	C12A	316	CF8M	F51	F53
150	-20 to 100	285	285	285	290	265	290	290	290	290	290	275	275	290	290
	200	260	260	260	260	255	260	260	260	260	260	235	235	260	260
	300	230	230	230	230	230	230	230	230	230	230	215	215	230	230
	400	200	200	200	200	200	200	200	200	200	200	195	195	200	200
	500	170	170	170	170	170	170	170	170	170	170	170	170	170	170
	600	140	140	140	140	140	140	140	140	140	140	140	140	140	140
	650	125	125	125	125	125	125	125	125	125	125	125	125	125	125
	700	110	110	110	110	110	110	110	110	110	110	110	110	110	110
	750	95	95	95	95	95	95	95	95	95	95	95	95	95	95
	800	80	80	80	80	80	80	80	80	80	80	80	80	/	/
	850	65	65	65	65	65	65	65	65	65	65	65	65	/	/
	900	50	50	50	50	50	50	50	50	50	50	50	50	/	/
	950	35	35	35	35	35	35	35	35	35	35	35	35	/	/
	1000	20	20	20	20	20	20	20	20	20	20	20	20	/	/
	1050	/	/	/	/	/	20	/	20	20	20	20	20	/	/
	1100	/	/	/	/	/	20	/	20	20	20	20	20	/	/
	1150	/	/	/	/	/	20	/	20	20	20	20	20	/	/
	1200	/	/	/	/	/	15	/	15	20	20	20	20	/	/
	1250	/	/	/	/	/	/	/	/	/	/	20	20	/	/
	1300	/	/	/	/	/	/	/	/	/	/	20	20	/	/
	1350	/	/	/	/	/	/	/	/	/	/	20	20	/	/
	1400	/	/	/	/	/	/	/	/	/	/	20	20	/	/
	1450	/	/	/	/	/	/	/	/	/	/	20	20	/	/
	1500	/	/	/	/	/	/	/	/	/	/	15	15	/	/
300	Temp. F	A105	WCB	LF2	WCC	LCB	WC6	LCC	C5	C12	C12A	316	CF8M	F51	F53
	-20 to 100	740	740	740	750	695	750	750	750	750	750	720	720	750	750
	200	680	680	680	750	660	750	750	750	750	750	620	620	745	745
	300	655	655	655	730	640	720	730	730	730	730	560	560	665	665
	400	635	635	635	705	615	695	705	705	705	705	515	515	615	615
	500	605	605	605	665	585	665	665	665	665	665	480	480	580	580
	600	570	570	570	605	550	605	605	605	605	605	450	450	555	555
	650	550	550	550	590	535	590	590	590	590	590	440	440	545	545
	700	530	530	530	555	510	570	555	570	570	570	435	435	540	540
	750	505	505	505	505	475	530	505	530	530	530	425	425	530	530
	800	410	410	410	410	390	510	410	510	510	510	420	420	/	/
	850	320	320	320	320	300	485	320	485	485	485	420	420	/	/
	900	230	230	230	225	200	450	225	375	450	450	415	415	/	/
	950	135	135	135	135	135	320	135	275	375	385	385	385	/	/
	1000	85	85	85	85	85	215	85	200	255	365	365	365	/	/
	1050	/	/	/	/	/	145	/	145	170	360	160	160	/	/
	1100	/	/	/	/	/	95	/	100	115	300	305	305	/	/
	1150	/	/	/	/	/	65	/	60	75	225	235	235	/	/
	1200	/	/	/	/	/	40	/	35	50	145	185	185	/	/
	1250	/	/	/	/	/	/	/	/	/	/	145	145	/	/
	1300	/	/	/	/	/	/	/	/	/	/	115	115	/	/
	1350	/	/	/	/	/	/	/	/	/	/	95	95	/	/
	1400	/	/	/	/	/	/	/	/	/	/	75	75	/	/
	1450	/	/	/	/	/	/	/	/	/	/	60	60	/	/
	1500	/	/	/	/	/	/	/	/	/	/	40	40	/	/

# Pressure Temperature Ratings - ASME B16.34

Note: Pressures in PSI

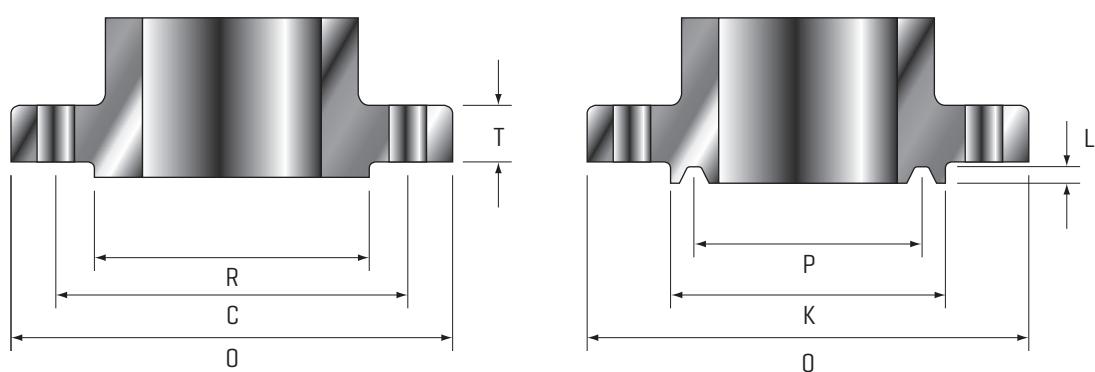
	Temp. F	A105	WCB	LF2	WCC	LCB	WC6	LCC	C5	C12	C12A	316	CF8M	F51	F53
600	-20 to 100	1480	1480	1480	1500	1395	1500	1500	1500	1500	1500	1440	1440	1500	1500
	200	1360	1360	1360	1500	1320	1500	1500	1500	1500	1500	1240	1240	1490	1490
	300	1310	1310	1310	1455	1275	1445	1455	1455	1455	1455	1120	1120	1335	1335
	400	1265	1265	1265	1405	1230	1385	1405	1410	1410	1410	1025	1025	1230	1230
	500	1205	1205	1205	1330	1175	1330	1330	1330	1330	1330	995	995	1160	1160
	600	1135	1135	1135	1210	1105	1210	1210	1210	1210	1210	900	900	1115	1115
	650	1100	1100	1100	1175	1065	1175	1175	1175	1175	1175	885	885	1095	1095
	700	1060	1060	1060	1110	1025	1135	1110	1135	1135	1135	870	870	1085	1085
	750	1015	1015	1015	1015	955	1065	1015	1065	1065	1065	855	855	1065	1065
	800	825	825	825	825	780	1015	825	1015	1015	1015	845	845	/	/
	850	640	640	640	640	595	975	640	975	975	975	835	835	/	/
	900	460	460	460	445	405	900	445	745	900	900	830	830	/	/
	950	275	275	275	275	275	640	275	550	755	775	775	/	/	/
	1000	170	170	170	170	170	430	170	400	505	725	725	725	/	/
	1050	/	/	/	/	/	290	/	290	345	720	720	720	/	/
	1100	/	/	/	/	/	190	/	200	225	605	610	610	/	/
	1150	/	/	/	/	/	130	/	125	150	445	475	475	/	/
	1200	/	/	/	/	/	80	/	70	105	290	370	370	/	/
	1250	/	/	/	/	/	/	/	/	/	/	295	295	/	/
	1300	/	/	/	/	/	/	/	/	/	/	235	235	/	/
	1350	/	/	/	/	/	/	/	/	/	/	190	190	/	/
	1400	/	/	/	/	/	/	/	/	/	/	150	150	/	/
	1450	/	/	/	/	/	/	/	/	/	/	115	115	/	/
	1500	/	/	/	/	/	/	/	/	/	/	85	85	/	/
900	Temp. F	A105	WCB	LF2	WCC	LCB	WC6	LCC	C5	C12	C12A	316	CF8M	F51	F53
	-20 to 100	2220	2220	2220	2250	2090	2250	2250	2250	2250	2250	2160	2160	2250	2250
	200	2035	2035	2035	2250	1980	2250	2250	2250	2250	2250	1860	1860	2230	2230
	300	1965	1965	1965	2185	1915	2165	2185	2185	2185	2185	1680	1680	2000	2000
	400	1900	1900	1900	2110	1845	2080	2110	2115	2115	2115	1540	1540	1845	1845
	500	1810	1810	1810	1995	1760	1995	1995	1995	1995	1995	1435	1435	1740	1740
	600	1705	1705	1705	1815	1655	1815	1815	1815	1815	1815	1355	1355	1670	1670
	650	1650	1650	1650	1765	1600	1765	1765	1765	1765	1765	1325	1325	1640	1640
	700	1590	1590	1590	1665	1535	1705	1665	1705	1705	1705	1305	1305	1625	1625
	750	1520	1520	1520	1520	1430	1595	1520	1595	1595	1595	1280	1280	1595	1595
	800	1235	1235	1235	1235	1175	1525	1235	1525	1525	1525	1265	1265	/	/
	850	955	955	955	955	895	1460	955	1460	1460	1460	1255	1255	/	/
	900	690	690	690	670	605	1350	670	1120	1350	1350	1245	1245	/	/
	950	410	410	410	410	410	955	410	825	1130	1160	1160	1160	/	/
	1000	255	255	255	255	255	650	255	595	760	1090	1090	1090	/	/
	1050	/	/	/	/	/	430	/	430	515	1080	1080	1080	/	/
	1100	/	/	/	/	/	290	/	300	340	905	915	915	/	/
	1150	/	/	/	/	/	195	/	185	225	670	710	710	/	/
	1200	/	/	/	/	/	125	/	105	155	430	555	555	/	/
	1250	/	/	/	/	/	/	/	/	/	/	440	440	/	/
	1300	/	/	/	/	/	/	/	/	/	/	350	350	/	/
	1350	/	/	/	/	/	/	/	/	/	/	290	290	/	/
	1400	/	/	/	/	/	/	/	/	/	/	225	225	/	/
	1450	/	/	/	/	/	/	/	/	/	/	175	175	/	/
	1500	/	/	/	/	/	/	/	/	/	/	125	125	/	/

# Pressure Temperature Ratings - ASME B16.34

Note: Pressures in PSI

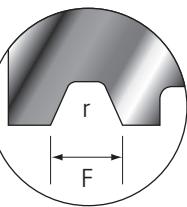
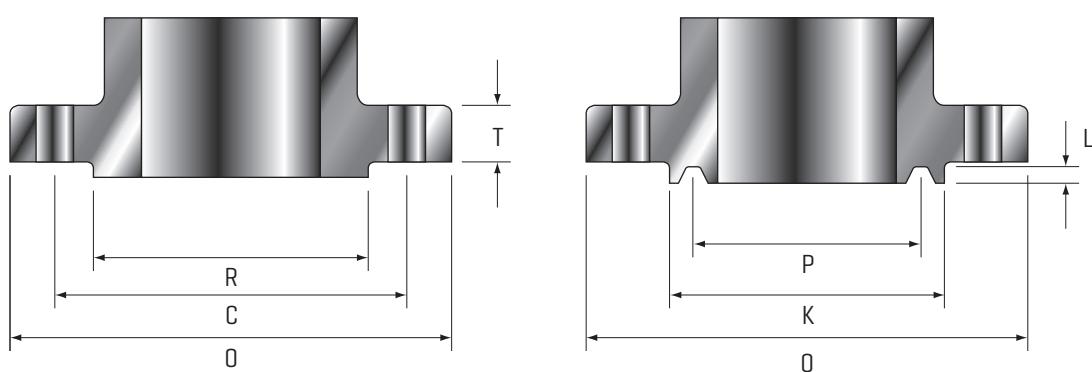
	Temp. F	A105	WCB	LF2	WCC	LCB	WC6	LCC	C5	C12	C12A	316	CF8M	F51	F53
1500	-20 to 100	3705	3705	3705	3750	3480	3750	3750	3750	3750	3750	3600	3600	3750	3750
	200	3395	3395	3395	3750	3300	3750	3750	3750	3750	3750	3095	3095	3720	3720
	300	3270	3270	3270	3640	3190	3610	3640	3640	3640	3640	2795	2795	3335	3335
	400	3170	3170	3170	3520	3075	3465	3520	3530	3530	3530	2570	2570	3070	3070
	500	3015	3015	3015	3325	2930	3325	3325	3325	3325	3325	2390	2390	2905	2905
	600	2840	2840	2840	3025	2755	3025	3025	3025	3025	3025	2255	2255	2785	2785
	650	2745	2745	2745	2940	2665	2940	2940	2940	2940	2940	2210	2210	2735	2735
	700	2665	2665	2665	2775	2560	2840	2775	2840	2840	2840	2170	2170	2710	2710
	750	2535	2535	2535	2535	2385	2660	2535	2660	2660	2660	2135	2135	2660	2660
	800	2055	2055	2055	2055	1955	2540	2055	2540	2540	2540	2110	2110	/	/
	850	1595	1595	1595	1595	1490	2435	1595	2435	2435	2435	2090	2090	/	/
	900	1150	1150	1150	1115	1010	2245	1115	1870	2245	2245	2075	2075	/	/
	950	685	685	685	685	685	1591	685	1370	1885	1930	1930	1930	/	/
	1000	430	430	430	430	430	1080	430	995	1270	1820	1820	1820	/	/
	1050	/	/	/	/	/	720	/	720	855	1800	1800	1800	/	/
	1100	/	/	/	/	/	480	/	495	565	1510	1525	1525	/	/
	1150	/	/	/	/	/	325	/	310	375	1115	1185	1185	/	/
	1200	/	/	/	/	/	205	/	170	255	720	925	925	/	/
	1250	/	/	/	/	/	/	/	/	/	/	735	735	/	/
	1300	/	/	/	/	/	/	/	/	/	/	585	585	/	/
	1350	/	/	/	/	/	/	/	/	/	/	480	480	/	/
	1400	/	/	/	/	/	/	/	/	/	/	380	380	/	/
	1450	/	/	/	/	/	/	/	/	/	/	290	290	/	/
	1500	/	/	/	/	/	/	/	/	/	/	205	205	/	/
2500	Temp. F	A105	WCB	LF2	WCC	LCB	WC6	LCC	C5	C12	C12A	316	CF8M	F51	F53
	-20 to 100	6170	6170	6170	6250	5805	6250	6250	6250	3250	6250	6000	6000	6250	6250
	200	5655	5655	5655	6250	5505	6250	6250	6250	6250	6250	5160	5160	6200	6200
	300	5450	5450	5450	6070	5315	6015	6070	6070	6070	6070	4660	4660	5560	5560
	400	5280	5280	5280	5865	5125	5775	5865	5880	5880	5880	4280	4280	5120	5120
	500	5025	5025	5025	5540	4885	5540	5540	5540	5540	5540	3980	3980	4840	4840
	600	4730	4730	4730	5040	4595	5040	5040	5040	5040	5040	3760	3760	4640	4640
	650	4575	4575	4575	4905	4440	4905	4905	4905	4905	4905	3680	3680	4560	4560
	700	4425	4425	4425	4630	4270	4730	4630	4730	4730	4730	3620	3620	4520	4520
	750	4230	4230	4230	4230	3970	4430	4230	4430	4430	4430	3560	3560	4430	4430
	800	3430	3430	3430	3430	3255	4230	3430	4230	4230	4230	3520	3520	/	/
	850	2655	2655	2655	2655	2485	4060	2655	4060	4060	4060	3480	3480	/	/
	900	1915	1915	1915	1855	1685	3745	1855	3115	3745	3745	3460	3460	/	/
	950	1145	1145	1145	1145	1145	3655	1145	2285	3145	3220	3220	3220	/	/
	1000	715	715	715	715	715	1800	715	1655	2115	3030	3030	3030	/	/
	1050	/	/	/	/	/	1200	/	1200	1430	3000	3000	3000	/	/
	1100	/	/	/	/	/	800	/	830	945	2515	2545	2545	/	/
	1150	/	/	/	/	/	545	/	515	630	1855	1970	1970	/	/
	1200	/	/	/	/	/	345	/	285	770	1200	1545	1545	/	/
	1250	/	/	/	/	/	/	/	/	/	/	1230	1230	/	/
	1300	/	/	/	/	/	/	/	/	/	/	970	970	/	/
	1350	/	/	/	/	/	/	/	/	/	/	800	800	/	/
	1400	/	/	/	/	/	/	/	/	/	/	630	630	/	/
	1450	/	/	/	/	/	/	/	/	/	/	485	485	/	/
	1500	/	/	/	/	/	/	/	/	/	/	345	345	/	/

# Flange Dimensions - ANSI B16.5 & B16.47



Class	Size	Flg. Dia.	Flg. Thick.	Raised Face Dia.	Drilling			Face Dia.	Ring Joint				
					Bolt Circle Dia.	# of Bolts	Hole Dia.		Pitch Dia.	Grv. Depth	Grv. Width	Btm. Radius	Ring No.
					O	T	R		K	P	L	F	r
150	2	6.00	0.75	3.62	4.75	4	0.75	4.00	3.250	0.250	0.344	0.03	R22
	2.5	7.00	0.88	4.12	5.50	4	0.75	4.75	4.000	0.250	0.344	0.03	R25
	3	7.50	0.94	5.00	6.00	4	0.75	5.25	4.500	0.250	0.344	0.03	R29
	4	9.00	0.94	6.19	7.50	8	0.75	6.75	5.875	0.250	0.344	0.03	R36
	6	11.00	1.00	8.50	9.50	8	0.88	8.62	7.625	0.250	0.344	0.03	R43
	8	13.50	1.12	10.62	11.75	8	0.88	10.75	9.750	0.250	0.344	0.03	R48
	10	16.00	1.19	12.75	14.25	12	1.00	13.00	12.000	0.250	0.344	0.03	R52
	12	19.00	1.25	15.00	17.00	12	1.00	16.00	15.000	0.250	0.344	0.03	R56
	14	21.00	1.38	16.25	18.75	12	1.12	16.75	15.625	0.250	0.344	0.03	R59
	16	23.50	1.44	18.50	21.25	16	1.12	19.00	17.875	0.250	0.344	0.03	R64
	18	25.00	1.56	21.00	22.75	16	1.25	21.50	20.375	0.250	0.344	0.03	R68
	20	27.50	1.69	23.00	25.00	20	1.25	23.50	22.000	0.250	0.344	0.03	R72
	22	29.50	1.81	25.25	27.25	20	1.38	/	/	/	/	/	/
	24	32.00	1.88	27.25	29.50	20	1.38	28.00	26.500	0.250	0.344	0.03	R76
	26	34.25	2.69	29.50	31.75	24	1.38	/	29.500	0.500	0.781	0.060	R93
	28	36.50	2.81	31.50	34.00	28	1.38	/	31.500	0.500	0.781	0.060	R94
	30	38.75	2.94	33.75	36.00	28	1.38	/	33.750	0.500	0.781	0.060	R95
	32	41.75	3.19	36.00	38.50	28	1.62	/	36.000	0.562	0.906	0.060	R96
	34	43.75	3.25	38.00	40.50	32	1.62	/	38.000	0.562	0.906	0.060	R97
	36	46.00	3.56	40.25	42.75	32	1.62	/	40.250	0.562	0.906	0.060	R98
300	2	6.50	0.88	3.62	5.00	8	0.75	4.25	3.250	0.312	0.469	0.03	R23
	2.5	7.50	1.00	4.12	5.88	8	0.88	5.00	4.000	0.312	0.469	0.03	R26
	3	8.25	1.12	5.00	6.62	8	0.88	5.75	4.875	0.312	0.469	0.03	R31
	4	10.00	1.25	6.19	7.88	8	0.88	6.88	5.875	0.312	0.469	0.03	R37
	6	12.50	1.44	8.50	10.62	12	0.88	9.50	8.312	0.312	0.469	0.03	R45
	8	15.00	1.62	10.62	13.00	12	1.00	11.88	10.625	0.312	0.469	0.03	R49
	10	17.50	1.88	12.75	15.25	16	1.12	14.00	12.750	0.312	0.469	0.03	R53
	12	20.50	2.00	15.00	17.75	16	1.25	16.25	15.000	0.312	0.469	0.03	R57
	14	23.00	2.12	16.25	20.25	20	1.25	18.00	16.500	0.312	0.469	0.03	R61
	16	25.50	2.25	18.50	22.50	20	1.38	20.00	18.500	0.312	0.469	0.03	R65
	18	28.00	2.38	21.00	24.75	24	1.38	22.62	21.000	0.312	0.469	0.03	R69
	20	30.50	2.50	23.00	27.00	24	1.38	25.00	23.000	0.375	0.531	0.06	R73
	22	33.00	2.62	25.25	29.25	24	1.62	27.00	25.000	0.438	0.594	0.06	R81
	24	36.00	2.75	27.25	32.00	24	1.62	29.50	27.250	0.438	0.656	0.06	R77
	26	38.25	3.31	29.50	34.50	28	1.75	31.88	29.500	0.500	0.781	0.06	R93
	28	40.75	3.56	31.50	37.00	28	1.75	33.88	31.500	0.500	0.781	0.06	R94
	30	43.00	3.75	33.75	39.25	28	1.88	36.12	33.750	0.500	0.781	0.06	R95
	32	45.25	3.94	36.00	41.50	28	2.00	38.75	36.000	0.562	0.906	0.06	R96
	34	47.50	4.12	38.00	43.50	28	2.00	40.75	38.000	0.562	0.906	0.06	R97
	36	50.00	4.38	40.25	46.00	32	2.12	43.00	40.250	0.562	0.906	0.06	R98

# Flange Dimensions - ANSI B16.5 & B16.47



Groove Detail

Class	Size	Flg. Dia.	Flg. Thick.	Raised Face Dia.	Drilling			Face Dia.	Ring Joint					
					Bolt Circle Dia.	# of Bolts	Hole Dia.		K	P	L	F	r	Ring No.
		O	T	R	C									
600	2	6.50	1.00	3.62	5.00	8	0.75	4.25	3.250	0.312	0.469	0.03	0.03	R23
	2.5	7.50	1.12	4.12	5.88	8	0.88	5.00	4.000	0.312	0.469	0.03	0.03	R26
	3	8.25	1.25	5.00	6.62	8	0.88	5.75	4.875	0.312	0.469	0.03	0.03	R31
	4	10.75	1.50	6.19	8.50	8	1.00	6.88	5.875	0.312	0.469	0.03	0.03	R37
	6	14.00	1.88	8.50	11.50	12	1.12	9.50	8.312	0.312	0.469	0.03	0.03	R45
	8	16.50	2.19	10.62	13.75	12	1.25	11.88	10.625	0.312	0.469	0.03	0.03	R49
	10	20.00	2.50	12.75	17.00	16	1.38	14.00	12.750	0.312	0.469	0.03	0.03	R53
	12	22.00	2.62	15.00	19.25	20	1.38	16.25	15.000	0.312	0.469	0.03	0.03	R57
	14	23.75	2.75	16.25	20.75	20	1.5	18.00	16.500	0.312	0.469	0.03	0.03	R61
	16	27.00	3.00	18.50	23.75	20	1.62	20.00	18.500	0.312	0.469	0.03	0.03	R65
	18	29.25	3.25	21.00	25.75	20	1.75	22.62	21.000	0.312	0.469	0.03	0.03	R69
	20	32.00	3.50	23.00	28.50	24	1.75	25.00	23.000	0.375	0.531	0.06	0.06	R73
	22	34.25	3.75	25.25	30.62	24	1.88	27.00	25.000	0.438	0.594	0.06	0.06	R81
	24	37.00	4.00	27.25	33.00	24	2.00	29.50	27.250	0.438	0.659	0.06	0.06	R77
900	2	8.5	1.5	3.62	6.5	8	1	4.88	3.75	0.312	0.469	0.03	0.03	R24
	2.5	9.62	1.62	4.12	7.50	8	1.12	5.39	4.250	0.312	0.469	0.03	0.03	R27
	3	9.50	1.50	5.00	7.50	8	1.00	6.12	4.875	0.312	0.469	0.03	0.03	R31
	4	11.50	1.75	6.19	9.25	8	1.25	7.12	5.875	0.312	0.469	0.03	0.03	R37
	6	15.50	2.19	8.50	12.50	12	1.25	9.50	8.312	0.312	0.469	0.03	0.03	R45
	8	18.50	2.50	10.62	15.50	12	1.50	12.12	10.625	0.312	0.469	0.03	0.03	R49
	10	21.50	2.75	12.75	18.50	16	1.50	14.25	12.750	0.312	0.469	0.03	0.03	R53
	12	24.00	3.12	15.00	21.00	20	1.50	16.50	15.000	0.312	0.469	0.03	0.03	R57
	14	25.25	3.38	16.25	22.00	20	1.62	18.38	16.500	0.438	0.656	0.06	0.06	R62
	16	27.75	3.50	18.50	24.25	20	1.75	20.62	18.500	0.438	0.656	0.06	0.06	R66
	18	31.00	4.00	21.00	27.00	20	2.00	23.38	21.00	0.500	0.781	0.06	0.06	R70
	20	33.75	4.25	23.00	29.50	20	2.12	25.50	23.000	0.500	0.781	0.06	0.06	R74
	24	41.00	5.50	27.25	35.50	20	2.62	30.38	27.250	0.625	1.062	0.09	0.09	R78
1500	2	8.50	1.50	3.62	6.50	8	1.00	4.88	3.750	0.312	0.469	0.03	0.03	R24
	2.5	9.62	1.62	4.12	7.50	8	1.12	5.38	4.250	0.312	0.469	0.03	0.03	R27
	3	10.50	1.88	5.00	8.00	8	1.25	6.62	5.375	0.312	0.469	0.03	0.03	R35
	4	12.25	2.12	6.19	9.50	8	1.38	7.62	6.375	0.312	0.469	0.03	0.03	R39
	6	15.50	3.25	8.50	12.50	12	1.50	9.75	8.312	0.375	0.531	0.06	0.06	R46
	8	19.00	3.62	10.62	15.50	12	1.75	12.50	10.625	0.438	0.656	0.06	0.06	R50
	10	23.00	4.25	12.75	19.00	12	2.00	14.62	12.750	0.438	0.656	0.06	0.06	R54
	12	26.00	4.88	15.00	22.50	16	2.12	17.25	15.000	0.562	0.906	0.06	0.06	R58
	14	29.50	5.25	16.25	25.00	16	2.38	19.25	16.500	0.625	1.062	0.09	0.09	R63
	16	32.50	5.75	18.50	27.75	16	2.62	21.50	18.500	0.688	1.188	0.09	0.09	R67
	18	36.00	6.38	21.00	30.50	16	2.88	24.12	21.000	0.688	1.188	0.09	0.09	R71
	20	38.75	7.00	23.00	32.75	16	3.12	26.50	23.000	0.688	1.312	0.09	0.09	R75
	24	46.00	8.00	27.25	39.00	16	3.62	31.25	27.250	0.812	1.438	0.09	0.09	R79
2500	2	9.25	2.00	3.62	6.75	8	1.00	4.48	4.000	0.312	0.469	0.030	0.030	R26
	2.5	10.50	2.25	4.12	7.75	8	1.13	5.86	4.375	0.375	0.531	0.060	0.060	R28
	3	12.00	2.62	5.00	9.00	8	1.25	6.61	5.000	0.375	0.531	0.060	0.060	R32
	4	14.00	3.00	6.19	10.75	8	1.50	7.99	6.188	0.438	0.656	0.060	0.060	R38
	5	16.50	3.62	7.31	12.75	8	1.75	9.48	7.500	0.500	0.781	0.060	0.060	R40
	6	19.00	4.25	8.50	14.50	8	2.00	10.98	9.000	0.500	0.781	0.060	0.060	R47
	8	21.75	5.00	10.62	17.25	12	2.00	13.38	11.000	0.562	0.906	0.060	0.060	R51
	10	26.50	6.50	12.75	21.75	12	2.50	16.73	13.500	0.688	1.188	0.090	0.090	R55
	12	30.00	7.25	15.00	24.38	12	2.75	19.48	16.000	0.688	1.312	0.090	0.090	R60

# LOW F.E. PROVEN

[www.scvalve.com](http://www.scvalve.com)

## Performance Exceeds Requirements for ISO 15848-1:2015 Fugitive Emission Testing

**SCV Valve's** newly designed API 6D 3-Piece Trunnion Mounted Ball Valve was built to exceed the performance requirements for specification ISO 15848-1:2015 [Fugitive Emission Testing\*].

### Standard Features

- Low fugitive emissions rated
- Triple barrier stem seal system
- Spring energized self-relieving seats standard stocking configuration
- Double piston effect sealing
- Double block and bleed capability standard with SPE design
- Secondary sealant injections
- Large ready-to-ship inventory in classes 150 thru 2500
- Short lead times
- Over 6,000 valves in stock

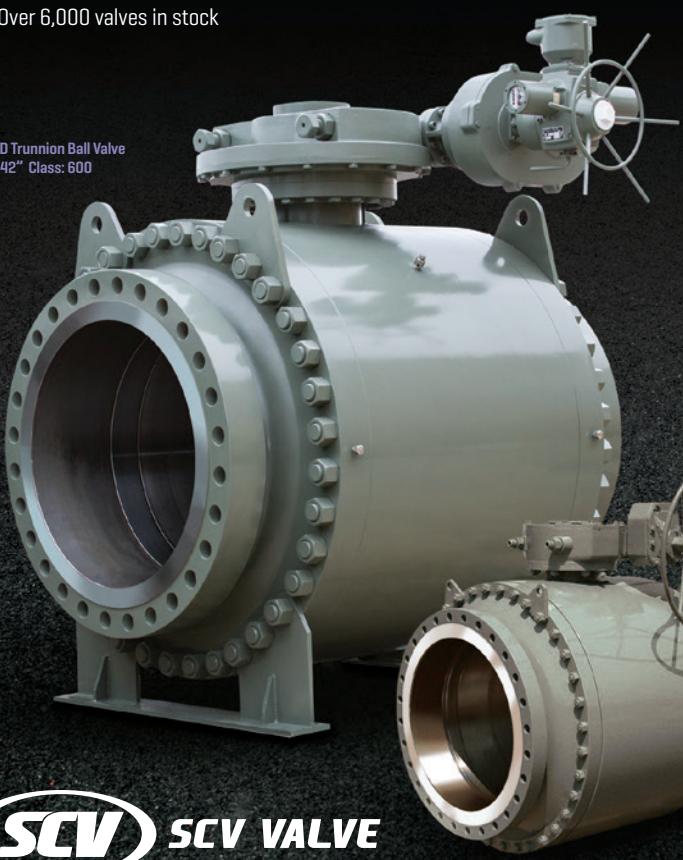
### 3-Piece Trunnion Ball Valves - API 6D

#### Full & Reduced Port

- Basic Design: API 6D
- Wall Thickness: API 6D
- Face-to-Face Dimension: API 6D
- Flange End Dimension: ANSI/ASME B16.5 [1" to 24"], ANSI/ASME B16.47 [26" & up]
- Butt-Weld End Dimension: ANSI/ASME B16.25
- Inspection & Testing: API 6D
- Fire Safe Design: API 607/API 6FA
- Fugitive Emission Design: ISO 15848-1:2015

\* = SCV Valve API 6D Trunnion Mounted Ball Valves in sizes 3" thru 20" in classes 150, 300, & 600 have been certified to ISO 15848-1:2015 by 3rd party inspection. However, all other SCV Valve API 6D products are built to this standard and can be 3rd party tested and certified upon request.

API 6D Trunnion Ball Valve  
Size: 42" Class: 600



API 6D Trunnion Ball Valve  
Size: 36" Class: 600  
Bore Coating: Scotchkote™ 134



SCV\_FE\_122617.1

# Industry Standards for Valve Manufacturing

This information is for reference only.

## American Society of Mechanical Engineers (ASME)

ASME Code - Boiler & pressure vessel code  
ASME A13.1 - Scheme for the identification of piping systems  
ASME B1.1 - Unified inch screw threads, UN, & UNR thread form  
ASME B1.5 - ACME screw threads  
ASME B1.7M - Nomenclature, definitions, & letter symbols for screw threads  
ASME B1.8 - Stub ACME screw threads  
ASME B1.12 - Class 5 interference - fit threads  
ASME B1.20.1 - Pipe threads, general purpose, inch  
ASME B1.20.3 - Dry-seal pipe threads, inch  
ANSI/ASME B16.1 - Cast iron pipe flanges & flanged fittings  
ANSI/ASME B16.5 - Pipe flanges & flanged fittings: NPS 1/2" - 24"  
ASME B16.9 - Factory made wrought steel buttwelding fittings  
ANSI/ASME B16.10 - Face-to-face & end-to-end dimensions of valves  
ASME B16.11 - Forged fittings, socket welding & threaded  
ASME B16.20 - Metallic gaskets for pipe flanges: ring joint spiral wound & jacketed  
ASME B16.21 - Non-metallic flat gaskets for pipe flanges  
ASME B16.25 - Butt welding ends  
ANSI/ASME B16.33 - Manually operated metallic gas valves for use in gas piping systems up to 125 PSI [sizes NPS 1/2" - 2"]  
ANSI/ASME B31.1 - Power piping  
ANSI/ASME B31.3 - Process piping  
ANSI/ASME B16.34 - Valves flanged, threaded & welding end  
ANSI/ASME B16.36 - Orifice flanges  
ANSI/ASME B16.38 - Large metallic valves for gas distribution [manually operated, NPS 2-1/2" - 12", 125 PSIG maximum]  
ANSI/ASME B16.42 - Ductile iron pipe flanges & flanged fittings: classes 150 & 300  
ANSI/ASME B16.47 - Large diameter steel flanges  
ANSI B17.1 - Keys & keyseats  
ANSI B18.2.2 - Square & hex nuts  
ASME B31.4 - Pipeline transportation systems for liquid hydrocarbons & other ammonia & alcohols  
ANSI/ASME B31.8 - Gas transmission & distribution piping systems  
ANSI/ASME B36.10 - Welded & seamless wrought steel pipe  
ANSI/ASME B36.19 - Stainless steel pipe  
ANSI FCI-2 - Control valve seat leakage

## American Society Non-destructive Test (ASNT)

ASNT-TC-1A - Recommended practice no. SNT-TC-1A 1996

## American Society for Testing and Materials (ASTM)

### American Petroleum Institute (API)

API RP 574 - Inspection practices for piping system components  
API 589 - Fire test for evaluation of valve stem packing  
API RP 591 - Process valve qualification procedure  
API 594 - Check valves-flanged, lug, wafer & buttwelding  
API 597 - Steel venturi gate valves, flanged, buttwelding ends  
API 598 - Valve inspection & testing  
API 599 - Metal plug valves - flanged, welding ends  
API 601 - Metallic gaskets for raised-face pipe flanges & flanged connections [double-jacketed corrugated & spiral wound]  
API 600 - Bolted bonnet steel gate valves for petroleum & natural gas industries "ISO adoption from ISO 10434"  
API 602 - Steel gate, globe, & check valves for sizes DN100 and smaller for the petroleum & natural gas industries  
API 603 - Corrosion-resistant, bolted bonnet gate valves-flanged & buttweld ends  
API 604 - Ductile iron gate valves, flanged ends  
API 605 - Large-diameter carbon steel flanges [nominal pipe sizes 26" - 60", classes 75, 150, 300, 400, 600, & 900 (replaced by ANSI/ASME B16.47)]  
API 606 - Compact steel gate valves, extended body [included in API 602] fire test for soft-seated quarter-turn valves "ISO adoption from ISO 10497-5 2004"  
API 607 - Fire test for soft-seated quarter-turn valves "ISO adoption from ISO 10497-5 2004"  
API 608 - Metal ball valves, flanged, threaded, & welding ends  
API 609 - Butterfly valves-double flanged, lug- & wafer-type  
API RP 94L - Steel for hydrogen service at elevated temperatures & pressures in petroleum refineries & petrochemical plants  
API RP 520, Part 1 - Sizing, selection & installation of pressure relieving devices in refineries  
API RP 520, Part 2 - Sizing, selection & installation of pressure relieving devices in refineries devices in refineries  
API Spec 6A - Specification for wellhead & christmas tree equipment  
API Spec 6D - Specifications for pipeline valves  
API Spec 14D - Specifications for wellhead surface safety valves & underwater safety valves for offshore service  
API 5B - Threading, gauging thread inspection of coring, tubing, & line pipe threads  
API 6AM - Material toughness  
API 6FA - Fire test for valves  
API 6FC - Fire test for valves with backseats  
API 6FD - Specification for fire test for check valves  
API Q1 - Specification for quality programs for the petroleum, petrochemical, & natural gas

## National Association of Corrosion Engineers (NACE)

MR0175 - Sulfide stress cracking resistant metallic materials for oil field equipment  
MR0103 - Materials resistant to sulfide stress cracking in corrosive petroleum refining environments

## Canadian Standards Association

B51-97 - Boiler, pressure vessel, & pressure piping code  
Z245.15-96 - Steel valves  
CAN3-z299.4-85 - Quality assurance program - Category 4  
CAN3-z299.3-85 - Quality assurance program - Category 3

## British Standards Institute (BS)

BS 1414 - Gate, wedge & double disk valves: steel  
BS 1868 - Check valves: steel  
BS 1873 - Globe & check valves: steel  
BS 2080 - Flanged & buttweld end steel valves  
BS 5146 - [withdrawn] Replaced by BS 6755 p.1 steel valves testing [1986] & BS 6755 p.2 [1984]  
BS 5152 - Globe & check: cast iron  
BS 5153 - Check: cast iron  
BS 5159 - Ball: cast iron & carbon steel  
BS 5160 - Globe & check: steel  
BS 5163 - Gate, wedge & double disk: cast iron  
BS 5351 - Ball: steel  
BS 5352 - Globe & check: steel  
BS 5418 - [withdrawn] Replaced by BS EN 19 [1992] marking: general purpose industrial  
BS 5840 - Valve mating details for actuator operation  
BS 6364 - Cryogenic  
BS 6683 - Guide: installation & use of valves  
BS 6755: Part 1 - Specification for production pressure testing requirements  
BS 6755: Part 2 - Specification for fire type-testing requirements  
BS EN 19 - Marking of general purpose industrial valves

## International Organization for Standardization

ISO 5211/1 - Industrial valves- part-turn actuator attachments  
ISO 5211/2 - Part-turn valve actuator attachment-flange & coupling performance characteristics  
ISO 5211/3 - Part-turn valve actuator attachment-dimensions of driving components  
ISO 5752 - Metal valves for use in flanged pipe systems face-to-face & center-to-face dimensions  
ISO 9000 - Quality management systems and fundamentals & vocabulary  
ISO 10012-1 - Quality assurance requirements for measuring equipment

## Manufacturers Standardization Society

SP-6 - Standard finishes for contact faces of pipe flanges & connecting-end flanges of valves & fittings  
SP-9 - Spot facing for bronze, iron & steel flanges  
SP-25 - Standard marking system for valves, fittings, flanges & unions  
SP-42 - Class 150 corrosion resistant gate, globe, angle, & check valves with flanged & buttweld ends  
SP-44 - Steel pipeline flanges  
SP-45 - Bypass & drain connections  
SP-51 - Class 150/w corrosion resistant cast flanges & flanged fittings  
SP-53 - Quality standard for steel castings & forgings for valves, flanges, & fittings & other piping components: magnetic particle exam method  
SP-54 - Quality standard for steel castings for valves, flanges, & fittings and other piping components: radiographic examination method  
SP-55 - Quality standard for steel castings for valves, flanges other piping components-visual method for evaluation of surface irregularities  
SP-60 - Connecting flange joint between tapping sleeves & tapping valves  
SP-61 - Pressure testing of steel valves  
SP-65 - High pressure chemical industry flanges & threaded stubs for use with lens gaskets  
SP-67 - Butterfly valves  
SP-69 - ANSI/MSS edition pipe hangers & supports, selection & application  
SP-70 - Cast iron gate valves, flanged & threaded ends  
SP-71 - Gray iron swing check valves, flanged & threaded ends  
SP-72 - Ball valves with flanged or butt-welding ends for general service  
SP-79 - Socket-welding reducer inserts  
SP-81 - Stainless steel, bonnetless, flanged knife gate valves  
SP-82 - Valve pressure testing methods  
SP-84 - Valves - socket welding & threaded ends  
SP-85 - Cast iron globe & angle valves, flanged & threaded ends  
SP-86 - Guidelines for metric data in standards for valves, flanges, fittings & actuators  
SP-88 - Diaphragm valves  
SP-91 - Guidelines for manual operation of valves  
SP-92 - MSS valve user guide  
SP-93 - Quality standard for steel castings & forgings for valves, flanges & fittings & other piping components-liquid penetrant exam method  
SP-94 - Quality standard for ferritic & martensitic steel castings for valves, flanges, & fittings and others piping components - ultrasonic exam method  
SP-96 - Guidelines on terminology for valves & fittings  
SP-98 - Protective coatings for the interior of valves, hydrants, & fittings  
SP-99 - Instrument valves  
SP-101 - Part-turn valve actuator attachment-flange and driving component dimensions & performance characteristics  
SP-102 - Multi-turn valve actuator attachment: flange and driving component dimensions & performance characteristics  
SP-110 - Ball valves threaded, socket-welding, solder joint, grooved, & flared ends  
SP-117 - Bellows seals for globe & gate valves  
SP-118 - Compact steel globe and check valves-flanged, flangeless, threaded & welding ends [chemical & petroleum refinery service]  
SP-120 - Flexible graphite packing system for rising stem steel valves [design requirements]  
SP-121 - Qualification testing methods for stem packing for rising stem steel valves

# Terms & Conditions

## Quotation Validity

This quotation is valid for 30 days from the date quotation is sent. Validity on special metals, including Stainless Steel, is 14 days from the date the quotation is sent. All products offered from stock are subject to prior sale.

## Shipments

All items quoted are EXW our Dock - [Ex Works - SCV Valve Facility Santa Fe, Texas 77510] - unless otherwise noted and agreed to in writing. Shipment may be billed either third party billing to the buyer or freight collect. Shipment dates offered above are forecasted delivery lead times and are estimated from the date payment terms [acceptable to seller] are established, clarification is received on all technical information, and resolution of customer's written approval of drawings is received [when required]. The equipment quoted shall be packed in accordance with seller's standard packing procedure unless otherwise noted and agreed to in writing by the seller.

## Force Majeure

If in the case of an act of God, war, riot, fire, explosion, flood, or any other circumstances of whatsoever nature which are beyond the control of the seller and which in any way affect the ability of the seller to fulfill its delivery obligations, the delivery is hindered, impeded, or delayed the seller shall be exonerated from all responsibilities and reserves the right to postpone the delivery beyond the original schedule.

## Payment terms

All terms are to be negotiated. Credit cards accepted [Master Card, Visa, American Express].

## Purchase Orders

All buyer's purchase orders supplied to the seller are to be written in the English language.

## Prices

All prices quoted are in USD as per the preceding pricing schedule. The minimum order value is \$5,000.00 [five thousand dollars], unless otherwise agreed to by seller. If for some reason any items are changed or additions to the order required, seller reserves the right to adjust prices accordingly. All sales are subject to approval of seller's credit department. If buyer fails to meet the agreed upon and established commercial terms of the contract, the seller may withhold all subsequent deliveries until such time that the original commercial terms of the contract have been met by the buyer [or subsequent commercial terms have been agreed upon by the seller with the buyer].

## Intellectual Property

All specifications, illustrations, drawings, certificates, and other particulars supplied by seller remain the intellectual property of the seller and should not be disclosed to any third party without the prior written consent of seller.

## Governing Law; Arbitration; Jurisdiction

The terms and conditions of this quotation and any subsequent purchase order shall be construed, interpreted, and performed exclusively according to the laws of the State of Texas, USA. The courts of such state shall have exclusive jurisdiction out of all controversies arising out of or in connection with this agreement. The parties consent that process may be served upon them in any such action by registered mail at the address stated for Buyer on its purchase order, and upon SCV Valve at the address noted above in Santa Fe, Texas, or personally within or without the State of Texas. Any legal action with respect to any agreement must be commenced within one year after the cause of action has accrued. The provisions of the Uniform Commercial Code as adopted by the State of Texas, and not under the United Nations Convention on Contracts for the International Sale of Goods, shall apply.

## Warranty

All seller's products are guaranteed against defects in workmanship for a period of twelve [12] months after being placed in service, but not exceeding eighteen [18] months after shipment, when products are properly installed per seller specifications and used within the service and pressure range for which they were manufactured. Full risk of loss shall pass to the buyer upon delivery at FOB point, or destination port in case of CIF. This guarantee is limited to the replacement of any valve parts/components found to be defective either in material or workmanship. This guarantee does not extend to costs of labor, freight, or any other consequential charges. The unauthorized use of third party components and workmanship in seller's products voids this warranty.

## Limitation of Liability

The liability of the seller under this agreement or with respect to any products supplied or services performed pursuant to this agreement, whether in contract, in tort, in strict liability or otherwise, shall not exceed the purchase price paid by the buyer with respect thereto. In no event will the seller be liable in contract, in tort, in strict liability or otherwise for any special, indirect, incidental, or consequential damages. This is including but not limited to loss of anticipated profits or revenues, loss of use, non-operation or increased expense of operation of equipment, cost of capital, or claims from customer or buyer for failure or delay in achieving anticipated profits or products.

## Cancellation

No contract may be canceled by the buyer except upon written notice to seller and upon payment to seller of all costs incurred by the contract arising out of, or in connection with, the contract. Export of goods covered hereby is subject to United States Customs Control. Standard stocking items will be subject to a twenty-five percent [25%] restocking and/or cancellation charge. Non-standard stocking items will be subject to a one-hundred percent [100%] restocking and/or cancellation charge.

## Cancellation Charge

The following indicates the rates of cancellation charge of contract value for project manufactured items and/or special engineered items at various stages of production:

- |   |                                  |
|---|----------------------------------|
| • Time of cancellation: Order Acknowledgement and prior to Engineering engagement.          | <b>Cancellation Charge: 10%</b>  |
| • Time of cancellation: After start of engineering but prior to release to production.      | <b>Cancellation Charge: 30%</b>  |
| • Time of cancellation: After release to production but prior to completion of fabrication. | <b>Cancellation Charge: 80%</b>  |
| • Time of cancellation: After completion of fabrication.                                    | <b>Cancellation Charge: 100%</b> |

## Return of Goods

No product shall be returned to seller without written authorization and shipping instructions having been obtained from seller. Products authorized for returns are to be shipped freight pre-paid to the SCV Valve Facility identified in writing, unless otherwise notified, and are subject to seller's standard re-stocking fees.

## Documentation

MTR's are available at no charge upon request. The seller's standard document package is per ISO 10474 3.1B requirements. Additional requested documentation is subject to charge.

## Inspection

The customer or his authorized representative may, with four [4] weeks prior notice given to seller, visually inspect products manufactured by seller. Such seller approved inspections will be carried out in accordance with seller's standard or seller approved customer inspection procedures. If any inspection or documentation requested by the customer is over and beyond the scope and criteria initially agreed to by the seller, any costs incurred by conducting such inspection or preparation of special documents shall be paid by the buyer prior to release of the items for shipment.

## Witness Hydro-testing

Witness hydro-testing is available at a cost. A scope of buyers inspection request is to be provided to seller at order placement. Late notice of such requested inspection is subject to additional costs. The cost associated with such witness hydro request is to be agreed on prior to any such testing taking place. Payment of this type of testing to be negotiated. Additionally, any costs associated with a third party inspector will not be at the sellers expense.

The SCV valve brand was established in 1972 as a maintenance and modification company with the ability to provide full in-line valve service and repair. In the mid-1970's, after experiencing many shortcomings of other valve products in the industry, the first SCV valve was manufactured. Since that time, the SCV brand has been expanded its manufactured products to cover a broad range of valves. Industries served include the power, paper and pulp, oil and gas, and petro-chemical sectors.

SCV Valve takes sincere pride in our ability to manufacture both commodity and specialty valves that meet and exceed the needs of our customers. All sizes, pressure classes, and metallurgical compositions are managed in house utilizing the strictest quality control measures to ensure the customer's total satisfaction.

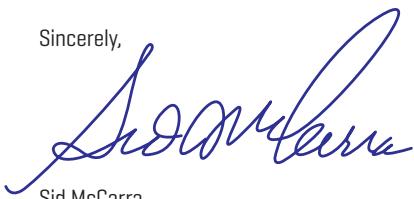
SCV Valve products include thru conduit gates, trunnion mounted balls, floating balls, wedge gates, full port swing checks, piston checks, and lubricated plugs. Valves utilized throughout the industry must meet rigorous quality and production standards.

SCV Valve has earned its API 6A, API 6D, ISO: 9001, CE-PED, and CRN certifications while operating under the API Q1 Quality Management System.

With years of dedication and commitment to quality, design, and service, SCV Valve has grown to be one of the premier valve manufacturers in the industry with the largest inventory of high pressure ball, gate, and check valves. We pride ourselves on our high quality products, timely delivery capabilities, and competitive prices.

On behalf of all of the members at SCV Valve, we thank you for the opportunity to earn your business.

Sincerely,



Sid McCarra  
President  
SCV Valve, LLC

Since 1972, the SCV brand has been committed to providing quality flow control products to the Power, Paper & Pulp, Oil & Gas, and Petro Chemical industries.

As one of the largest valve manufacturers, SCV Valve's reputation is unparalleled for producing high quality commodity and specialty valves. Products range in sizes 1/2" - 48", in pressure classes from 150# - 2500# and are backed by timely deliveries and competitive prices.

Call SCV today at [281]482-4728 for all your valve needs or visit us on the web @ [www.scvalve.com](http://www.scvalve.com).

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3521 FM 646 Rd. North  
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