



Southern California Valve



(281) 482-4728 • www.scvvalve.com



Piston Check Valves

Class: 150 - 2500

Sizes: 2" - 36"

Dual Plate Check Valves - Wafer & Lug

Wafer Design

Class: 150 - 2500

Sizes: 1.5" - 84"

Lug Design

Class: 150 - 900

Sizes: 2" - 36"





Southern California Valve



SOUTHERN CALIFORNIA VALVE manufactures a premium array of check valves. Our products are manufactured and tested in accordance with respective API, ASME, and ANSI standards.

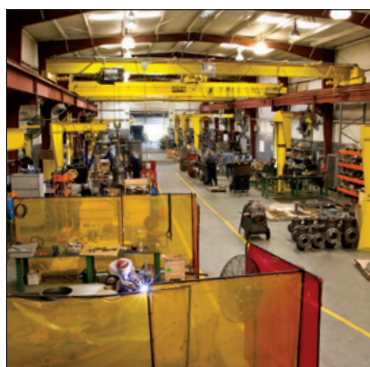
SCV Piston Check Valves are quiet operating valves that effectively prevent backflow. The “flapperless” design is gentle on the seat as the piston rises and lowers with increased and decreased flow rates.



SCV Dual Plate Check Valve design naturally reduces fluid drag allowing easy opening and fast closure with minimal “hammering”. Our dual plate check design weighs a fraction of the full-bodied Swing or Piston Check valves.



The SCV designs offers many features and options beneficial for oil, liquid gas, and liquid applications.



Innovative valve solutions.®

For more information call us @ (281) 482-4728 or visit our website @ www.scvvalve.com

Piston Check Valves - API 6D

- Basic Design: API 6D
- Shell Wall Thickness: API 6D
- Face-to-Face: As stated
- Flange End Dimensions: ANSI/ASME 16.5
- Butt-Weld End Dimensions: ANSI/ASME B16.25
- Inspection and Testing: API 6D

Dual Plate Check Valves - Lug & Wafer Designs - API 594

- Basic Design: API 594
- Face-to-Face: Flanged API 594 & ANSI/ASME B16.10
- Flange Dimensions: ANSI/ASME B16.5
- Inspection and 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.





Southern California Valve

Southern California 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 Gate, Globe, Swing Check - Bolted Bonnet & Pressure Seal Bonnet, Ball - floating, trunnion, rising stem, Thru-Conduit Gate - slab and expanding, Swing Check - Full and Regular Port, Lubricated Plugs, Dual Plate Checks - wafer and lug. Southern California Valve's High Quality Standards demand 100% pressure testing of every valve to insure its reliability and full customer satisfaction.

At Southern California Valve, we pride ourselves with high quality products in the commodity and specialty valve lines, as well as, timely deliveries, and competitive prices.

Company History ■ ■ ■ ■ ■ ■ ■ ■ ■ ■

Southern California Valve 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, Southern California Valve has become one of the largest West Coast full range, field service companies, with a reputation for superior quality.

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

Mission Statement ■ ■ ■ ■ ■ ■ ■ ■ ■ ■

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

	Page
Table of Contents.....	1
Complete Product Line.....	2
Certifications	3
• American Petroleum Institute (API)	
• ISO 9001:2008	
• Canadian Registration Numbers	
• CE PED	
Figure Number Chart.....	4 & 5
Valve ID Tag & Valve Markings Identification	6
PISTON CHECK VALVES - API 6D.....	7
Piston Check Valve Expanded View & Bill of Materials	8
Piston Check Valves Dimensions.....	9 & 10
DUAL PLATE CHECK VALVES - WAFER & LUG DESIGNS.....	11
Dual Plate Check - Wafer Design Expanded View & Bill of Materials	12
Dual Plate Check - Wafer Design Dimensions.....	13, 14, 15 & 16
Dual Plate Check - Lug Design Dimensions.....	17, 18 & 19
Flange Dimensions	22 & 23
Butt-welding Dimensions	24 & 25
Industry Standards for Valve Manufacturing	26
Terms and Conditions.....	27

Complete Product Line

Call SCV today @ (281) 482-4728 for all your valve needs or visit us on the web @ www.scvvalve.com.

Carbon & Stainless Bolted Bonnet Gates

Sizes: 2" - 60"
Class: 150 - 2500
Design: API 600



Carbon & Stainless Pressure Seal Gates

Sizes: 2" - 24"
Class: 600 - 2500
Design: API 600



Carbon Steel Thru Conduit Slab & Expandin

Sizes: 2" - 36"
Class: 150 - 1500
Design: API 6D



Carbon & Stainless Bolted Bonnet Globes

Sizes: 2" - 24"
Class: 150 - 2500
Design: BS1873
B16.34



Carbon & Stainless Pressure Seal Globes

Sizes: 2" - 16"
Class: 600 - 2500
Design: BS1873
B16.34



Carbon & Stainless Pressure Seal Checks

Sizes: 2" - 24"
Class: 600 - 2500
Design: API 600
B16.34



Carbon & Stainless Bolted Cover Full Port Swing Checks

Sizes: 2" - 52"
Class: 150 - 2500
Design: API 6D



Carbon Steel Bolted Cover Piston Checks

Sizes: 1" - 24"
Class: 150 - 2500
Design: API 6D



Dual Plate Checks Wafer & Lug

Wafer Sizes: 1.5" - 84"
Wafer Class: 150 - 2500
Lug Sizes: 2" - 48"
Lug Class: 150 - 900
Design: API 594



Carbon & Stainless 2-Piece Floating Balls

Sizes: 1/2" - 12"
Class: 150 - 300
Design: B16.34



Carbon & Stainless 3-Piece Trunnion Balls

Sizes: 2-1/16" - 13-5/8"
Pressure: 2000, 3000 & 5000
Design: API 6A



Carbon & Stainless 3-Piece Trunnion Balls Bolted & Welded Body

Sizes: 2" - 48"
Class: 150 - 2500
Design: API 6D



Carbon & Stainless Double Block & Bleed Trunnion Balls

Sizes: 2" - 24"
Class: 150 - 2500



Sub-Sea 3-Piece & Top Entry Trunnion Balls Bolted & Welded Body

Sizes: 2" - 24"
Class: 150 - 2500
Pressure: 2000 - 15000
Design: API 6D
API 6DSS



Carbon & Stainless 3-Piece Full Port Balls

Sizes: 1/4" - 3"
Class: 3705 W.O.G.
Design: B16.34



Forged Steel Gates

Sizes: 3/8" - 2"
Class: 800 - 2500
Design: API 602



Forged Steel Globes

Sizes: 3/8" - 2"
Class: 800 - 2500
Design: API 602



Forged Steel Swing Checks

Sizes: 3/8" - 2"
Class: 800 - 2500
Design: API 602



Forged Steel Piston Checks

Sizes: 3/8" - 2"
Class: 800 - 2500
Design: API 602



Carbon Steel Dual Seal Expanding Plugs

Sizes: 2" - 24"
Class: 150 - 900
Design: API 6D



Carbon Steel Lubricated Plugs

Sizes: 1/2" - 36"
Class: 150 - 2500
Design: API 6D



Carbon & Stainless Rising Stem Balls

Sizes: 2" - 24"
Class: 150 - 1500
Design: API 6D



Texas Facility: API 6A Certification



- Alberta
 - 0C07063.2
- New Brunswick
 - 0C07063.27
- New Foundland & Laborador
 - 0C07063.20
- Northwest Territory
 - 0C07063.25
- Novascotia
 - 0C07063.27
- Nunavut
 - 0C07063.2N
- Manitoba
 - 0C07063.24
- Ontario
 - 0C07063.25
- Prince Edward island
 - 0C07063.29
- Yukon
 - 0C07063.2

SCV Figure Number Chart

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

1

2

3

4

5

6

Valve Type	Bore Size	Pressure Class	Body/Bonnet	Body Material		Trim Material
BAL = Ball	.02 = 1/16"	.5 = 50	B = Bolted	01 = Cast Iron	90 = Titanium	10 = CR13
DBV = Double Ball Valve	.03 = 1/8"	.7 = 75	H = Bar Stock	02 = A352/LCC	91 = Tantalum	11 = CR13/HF
DCK = Dual Wafer Check	.25 = 1/4"	12 = 125	L = Lug	03 = A352/LC2	96 = Zirconium	12 = CR13 HF/HF
DSP = Dual Seal Plug	.50 = 1/2"	01 = 150	N = NRS Bolted	04 = CF8		13 = A105/ENP
FCK = Full Port Check	.07 = 9/16"	02 = 200	P = Pressure Seal	05 = Ductile		14 = Steel/Chrome
GAT = Gate	.08 = 13/16"	03 = 300	R = Threaded Body	06 = CF8M		15 = LF2/ENP
GLB = Globe	.75 = 3/4"	04 = 400	S = Seal Weld	08 = A216 WCC		16 = 416
PCK = Piston Check	01 = 1"	06 = 600	T = Top Entry	09 = WC9/F22		17 = 17 4-PH
PLG = Plug	1.2 = 1-1/16"	08 = 800	U = Union	10 = A216 WCB		18 = LF3+ENP
RSB = Rising Stem Ball	1.3 = 1-1/8"	09 = 900	W = Wafer	11 = A352 LCB		20 = Alloy 20
SCK = Swing Check	1.4 = 1-1/4"	11 = 1000	Y = Y-Pattern	12 = A350 LF2		21 = Alloy 20/HF
TCG = Thru Conduit Gate	1.5 = 1-1/2"	15 = 1500		13 = A105		22 = F-22
TCK = Tilting Disc Check	1.8 = 1-13/16"	17 = 175		14 = LC3/LF3		25 = Inconel Overlay
WCK = Wafer Check	02 = 2"	20 = 2000		15 = A217 C5		28 = Sanicro 28
	2.2 = 2-1/16"	25 = 2500		16 = WC6/F11		30 = 4130
	2.3 = 2-1/8"	30 = 3000		17 = 17-4 PH		31 = 321
	2.5 = 2-1/2"	37 = 3705		18 = A108		32 = 316L
	2.7 = 2-9/16"	45 = 4500		19 = LF4		33 = 304/HF
	03 = 3"	50 = 5000		20 = Alloy 20		34 = 304
	3.3 = 3-16"	60 = 6000		21 = LF6		35 = 316/HF
	04 = 4"	10 = 10000		22 = F-22		36 = 316
	4.2 = 4-1/16"	05 = 15000		24 = 254 SMO		37 = 317/HF
	05 = 05"			25 = F5		38 = 317
	06 = 06"			26 = F91		39 = 1040
	08 = 08"			27 = C12A		41 = 410/F6a
	10 = 10"			28 = Sanicro 28		42 = Full Teflon
	12 = 12"			29 = C12/F9		44 = F44 Duplex
	14 = 14"			30 = AISI 4130		47 = 347
	16 = 16"			31 = 321		48 = 347/HF
	18 = 18"			32 = 321L		49 = Carpenter
	20 = 20"			33 = 304L		50 = Monel
	22 = 22"			34 = 304		51 = F51 Duplex
	24 = 24"			35 = 316L		52 = Nickel Alloy
	26 = 26"			36 = 316		53 = F53 Duplex
	30 = 30"			37 = 317L		54 = A516/ENP
	32 = 32"			38 = 317		55 = F55 Duplex
	36 = 36"			40 = AISI 4140		56 = A36/ENP
	40 = 40"			41 = 410/F6a		57 = A537/ENP
	42 = 42"			44 = F44 Duplex		60 = Duplex
	48 = 48"			47 = 347		61 = Super Duplex
	50 = 50"			48 = 347L		62 = Inconel 625
	54 = 54"			49 = Carpenter		63 = Inconel 600
	60 = 60"			50 = Monel		69 = Naval Brass
	72 = 72"			51 = F51 Duplex		70 = Bronze
	78 = 78"			52 = Nickel Alloy		71 = Aluminum
	72 = 72"			53 = F53 Duplex		78 = Inconel 718
	78 = 78"			54 = ASTM A516		80 = Alu/Brz
				55 = F55 Duplex		81 = Ni Alu/Brz
				56 = ASTM A36		82 = Inconel 825
				57 = ASTM A537		83 = Hastelloy
				60 = Duplex		86 = 8026
				61 = Super Duplex		87 = 487
				62 = Inconel 625		88 = A890-4A
				63 = Inconel 600		89 = A890-5A
				65 = F65		90 = Titanium
				69 = Naval Brass		91 = Tantalum
				70 = Bronze		92 = Inconel 925
				71 = Aluminum		93 = Tungsten Carbide
				78 = Inconel 718		96 = Zirconium
				80 = Alu Bronze		97 = Nickel Boron
				81 = Ni Alu/Brz		
				82 = Inconel 825		
				83 = Hastelloy B		
				84 = Hastelloy C		
				86 = AISI 8026		
				87 = 487		
				88 = A890-4A		
				89 = A890-5A		

7

8

9

10

11

12

Ends	Operation	Configuration	Seal Material	Seat Material	Special
A = RF x BW	B = Bare Stem	32 = 3 Way 2 Port	4 = 304 Ring	D = Devlon	By Pass
B = RTJ x BW	D = Dual Acting	3F = 3 Way Floater	6 = 316 Ring	G = Graphite	Cadium Coat
C = Clamp	E = Electric	3T = 3 Way Trunnion	A = Aflas O-Ring	K = PCTFE	Cryogenic
D = RF x RTJ	G = Gear	43 = 4 Way 3 Port	B = Buna	M = Metal Seated	Epoxy Paint
F = Flat	H = Handwheel	4F = 4 Way Floater	E = EPDM	N = Nylon	Lip Seal
H = Hub	L = Lever	4T = 4 Way Trunnion	F = Fluorosilicone	O = Nova	Metal Hardface
J = RTJ	O = Oil/Gas	EX = Expanding	G = Grafoil	P = PEEK	Metal Tungsten Carbide
N = Nipples	S = S/Return	FF = Full Floater	H = HNBR	R = RPTFE	Nitride
M = SW x TH	Y = Hydraulic	FT = Full Trunnion	K = Kalrez	T = Teflon	Outside WT
O = ODD		RF = Red, Floater	L = Lip Seal		QPQ Inturnal
R = RF		RT = Red, Trunnion	N = Neoprene		Slam Retard
S = SW		SJ = Steam Jacket	P = Polyurethane		Stancoat
T = TH			R = NBR		Sub Sea
W = WE			S = Silicone		Teflon Lined
			T = Teflon		Top Extension
			U = Floursint		Zinc Base
			V = Viton		

Figure Number Profile

1	2	3	4	5	6	7	8	9	10	11	12	
BAL	02	01	B	13	13	R	L	FT	-	H	D	X

No.	Figure Number Code	Description
1	Valve Type	Identifies the valve body design (gate, globe, ball, plug, etc.)
2	Bore Size	Identifies nominal port size (1/4" to 78")
3	Pressure Class	Identifies pressure classes ranging from 50 to 15,000
4	Body/Bonnet	Identifies body and bonnet material configuration (bolted bonnet, pressure seal, top entry, etc.)
5	Body Material	Identifies body material composition (A105, WCB, Stainless Steel, F51, etc.)
6	Trim Material	Identifies trim material composition (ENP, 316, F6, Cr13, HF, etc.)
7	Ends	Identifies end connection configuration (weld end, RTJ, socket weld, hub, etc.)
8	Operation	Identifies valve operation mechanism (electric, gear, hydraulic, lever, etc.)
9	Configuration (ball & expanding gate only)	Identifies valve configuration (floater, trunnion, etc.)
10	Seal Material	Identifies seal material composition (Buna, EPDM, Grafoil, HNBR, Neoprene, Teflon, etc.)
11	Seat Material	Identifies seat material composition (Devlon, Graphite, PCTFE, Nylon, PEEK, Teflon, etc.)
12	Special	Identifies special treatments or configurations (when applicable)

Sample Figure Numbers & Descriptions

Valve Type	Sample Figure #	Description
Trunnion Ball	BAL0201B1313RLFF-HD	Ball Valve, 2", 150#, Bolted Bonnet, A105 Body, ENP Trim, HNBR Seals, Devlon Seats, Raised Face, Lever Operated, Full Port, Trunnion Mtd.
Floating Ball	BAL0201B1036RLFF-T	Ball Valve, 2", 150#, Bolted Bonnet, A216 WCB Body, 316SS Trim, PTFE Seats, Raised Face, Lever Oper., Full Port, Floating Ball
Dual Plate Wafer Check	DCK0406W1035R	Dual Plate Wafer Check, 4", 600#, Wafer Style, A216 WCB Body, 316SS/HF Trim, Raised Face
Full Port Swing Check	FCG0409B1011J	Full Port Swing Check, 4", 900#, Bolted Bonnet, A216 WCB Body, Cr13/HF Trim, Ring Type Joint
Wedge Gate	GAT0303P1035RH	Wedge Gate, 3", 300#, Pressure Seal, WCB, 316SS/HF Trim, Raised Face, Hand Wheel Operated
Globe	GLB0803B1011RH	Globe, 8", 300#, Bolted Bonnet, WCB, Cr13/HF Trim, Raised Face, Hand Wheel Operated
Swing Check	SCK0601B1036R	Swing Check, 6", 150#, Bolted Bonnet, WCB, Cr13/HF Trim, Raised Face
Lubricated Plug	PLG0803B1041RL-VM	Lubricated Plug Valve, 8", 300#, Bolted Bonnet, WCB, 410SS Trim, Viton Seals, Hardface Seats, Raised Face, Lever Operated
Dual Seal Plug	DSP0803B1011RG	Dual Seal Plug, 8", 300#, bolted Bonnet, WCB, Cr13/HF Trim, Raised Face, Gear Operated
Thru Conduit Gate	TCG0603B1036RG-VM	Thru Conduit Gate, 6", 300#, Bolted Bonnet, WCB, 316SS Trim, Viton Seals, Hardface Seats, Raised Face, Gear Operated
Expanding Gate	TCG0603B1036RGEX-VM	Thru Conduit Gate, 6", 300#, Bolted Bonnet, WCB, 316SS Trim, Viton Seals, Hardface Seats, Raised Face, Gear Operated, Expanding
Rising Stem Ball	RSB1006B1036RGFT-HR	Rising Stem Ball, 10", 600#, Bolted Bonnet, WCB Body, 316SS Trim, HNBR Seals, RPTFE Seats, Raised Face, Gear Operated

Note: Wedge Gates, Globes, Swing Checks, Piston Checks, Wafer Checks are metal-to-metal seats as standard.

Note: Subject to change without notice.

Control #: 7.5.3-114 rev6

Valve ID Tag & Valve Markings Identification

Valve ID Tag

The Valve ID Tag form is a rectangular label with 14 numbered fields for identification. The fields are arranged in two rows. The top row contains fields 1 through 10, and the bottom row contains fields 11 through 14. The fields are labeled as follows:

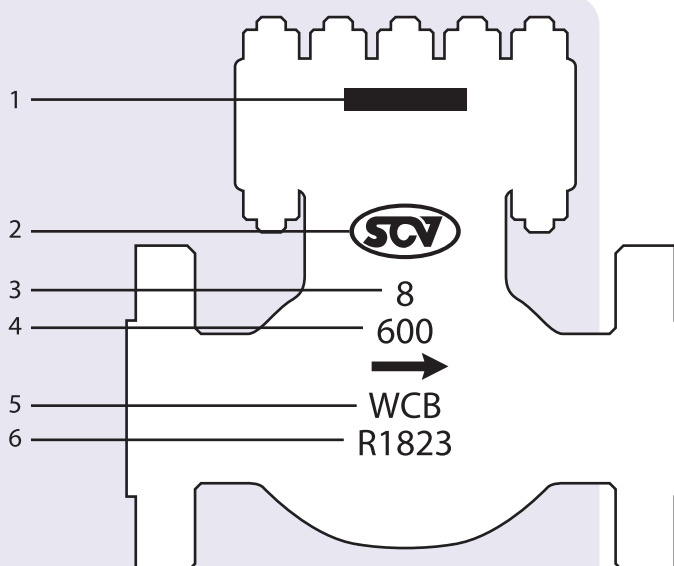
- 1: S/N. NO.
- 2: FIG. NO.
- 3: MOP/MAX TEMP
- 4: SIZE
- 5: CLASS
- 6: BODY
- 7: STEM
- 8: BALL/DISC
- 9: SEAT
- 10: MOP/MIN TEMP
- 11: MFG DATE
- 12: API
- 13: O RING
- 14: NACE MR 01 75

The form also includes the ISO 14313 standard logo and the SCV logo.

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 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





Southern California Valve

[Click here to access
PRINTABLE PDF.](#)

Piston Check Valves - API 6D

Class: 150 - 2500/Sizes: 1" - 24"

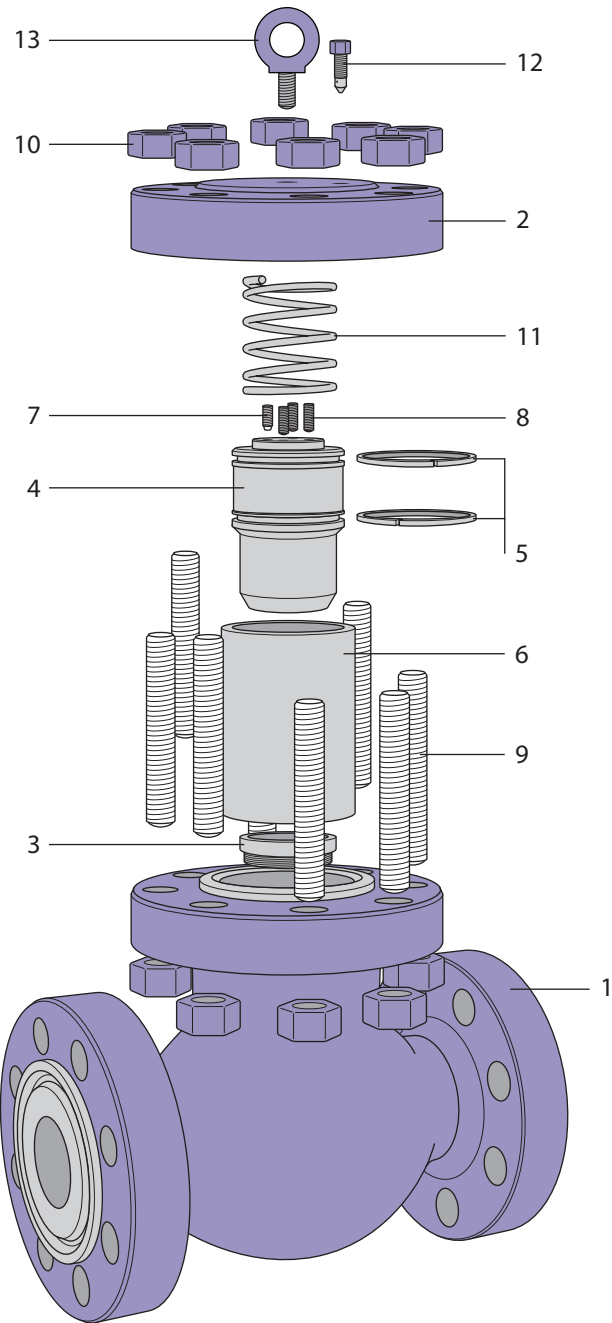


Design and Manufacturing Standards	
Basic Design	API 6D
Shell Wall Thickness	ANSI/ASME B16.34
Face to Face Dimension	As stated
Flange End Dimension	ANSI/ASME B16.5
Butt-Weld End Dimension	ANSI/ASME B16.25
Inspection & Testing	API 6D



Piston Check Valve

[Expanded View & Bill of Materials]

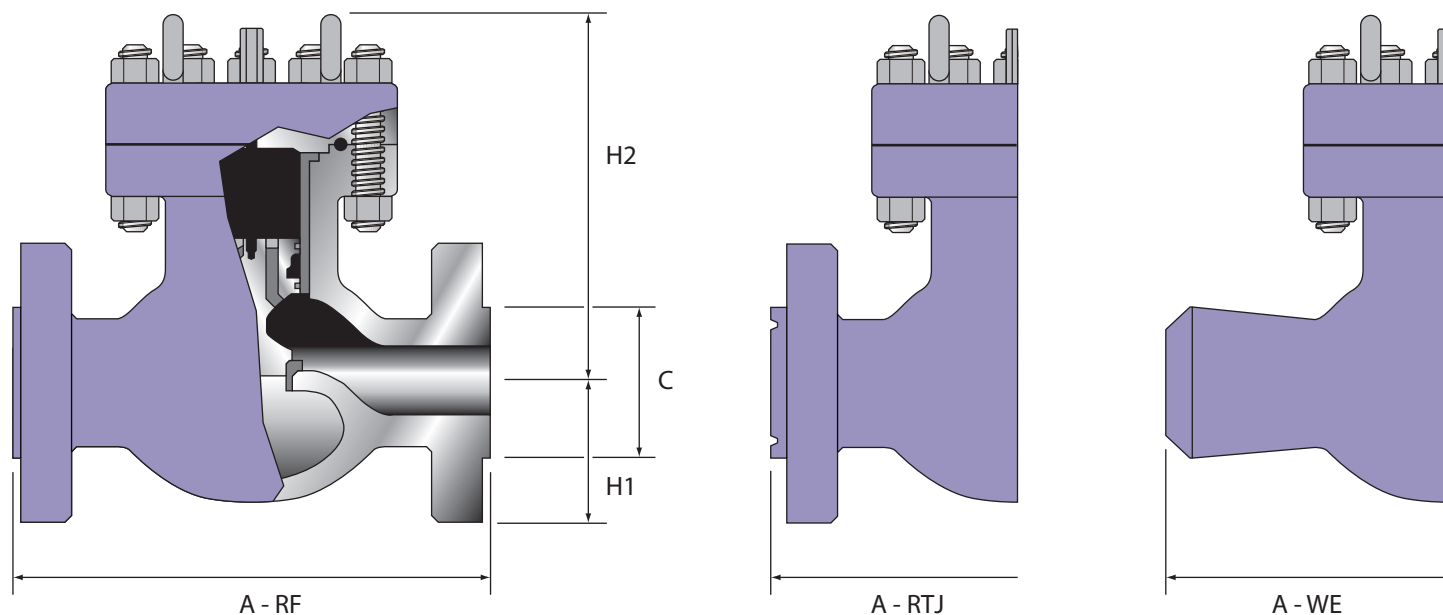


Bill of Materials			
No.	Part	WCC	LCC
1	Body	A216 WCC	A352 LCC
2	Cover	A105	A350 LF2
3	Seat Ring	A105+13HF	LF2+HF
4	Piston	A216 WCC+13Cr	LF2+CR13
5	Piston Rings	Chromium Molybdenum Ci	
6	Piston Liner	A29 5140+ENP	5140+ENP
7	Orifice	Carbon Steel	SS
8	Ball Check	SS/CS	SS
9	Stud	A193 B7M	A320 L7
10	Nut	A194 2HM	A194 7M
11	Spring	304 SS	304 SS
12	Vent	A29 1035	SS
13	Eye Bolt	Steel	
* All piston check valves 2" thru 6", in all pressures, comes standard with a 304ss spring installed. Note: Available in other materials upon request.			

Piston Check Valve Dimensions

Size: 2" - 36"

Class: 150 - 2500



CLASS 150	SIZE	NPS	2	3	4	6	8	10	12	14	16	18	20	24
		DN	50	80	100	150	200	250	300	350	400	450	500	600
	A - RF	IN	8.0	9.5	11.5	16	19.5	24.5	27.5	31	36	38.5	38.5	51
		MM	203	241	292	406	495	622	699	787	914	978	978	1295
	H1	IN	3.25	4.875	5	6.75	9.25	11.75	13.25	14.875	17	/	/	/
		MM	83	124	127	171	235	298	337	378	432	/	/	/
	H2	IN	7.0	8.35	10.23	14.56	17.83	22.48	25.51	27.25	30.125	/	/	/
		MM	178	212	260	370	451	571	648	692	765	/	/	/
	WGT (RF)	LB	64	124	201	332	610	1040	1328	2010	2480	/	/	/
		MM	29	56	91	151	277	472	602	912	1125	/	/	/

CLASS 300	SIZE	NPS	2	3	4	6	8	10	12	14	16
		DN	50	80	100	150	200	250	300	350	400
	A - RF	IN	10.25	14.75	17.625	19.375	22.5	29.625	32	35.25	39.125
		MM	260	375	448	492	572	752	813	895	994
	H1	IN	3.25	4.875	5	6.75	9.25	11.75	13.25	14.875	17
		MM	83	124	127	171	235	298	337	378	432
	H2	IN	8.5	10.25	12.5	17.5	20.125	23.75	24.375	27.25	30.125
		MM	216	260	318	445	511	603	619	692	765
	WGT (RF)	LB	80	155	250	415	750	1300	1660	2500	3100
		MM	36	70	114	187	341	591	755	1136	1409

Piston Check Valve Dimensions

CLASS 600	SIZE	NPS	2	3	4	6	8	10	12	14	16	18	20	24
		DN	50	80	100	150	200	250	300	350	400	450	500	600
	A - RF	IN	11	14.75	18.5	20.75	24	30.875	33.625	37	41.25	46	55.5	60
		MM	279	375	470	527	610	784	854	940	1048	1168	1410	1524
	A - RTJ	IN	11.375	14.875	18.625	20.875	24.125	30.875	33.75	37.125	41.375	46.125	55.75	60.125
		MM	283	378	461	530	613	787	857	943	1051	1172	1413	1527
	H1	IN	3.25	5.25	5.375	7	9.25	11.75	13.125	14.875	17	19.25	20.875	22.125
		MM	83	133	137	178	235	298	333	378	432	489	530	561
	H2	IN	8.5	10.25	12.125	18	20.25	24.25	25.125	28.125	31.25	32.875	35.25	38.78
		MM	216	260	308	457	514	616	638	714	794	835	895	985
WGT (RF)	LB	85	175	290	550	810	1650	2450	2900	3700	4600	7900	10200	
	MM	39	80	132	250	368	750	1114	1318	1682	2091	3591	4636	

CLASS 900	SIZE	NPS	2	3	4	6	8	10	12	14	16	18	20	24
		DN	50	80	100	150	200	250	300	350	400	450	500	600
	A - RF	IN	13.625	14.875	19.375	21.875	24.875	31.375	33.875	/	/	/	/	/
		MM	346	378	492	556	632	797	860	/	/	/	/	/
	A - RTJ	IN	13.75	15	19.5	22	25	31.5	33.125	/	/	/	/	/
		MM	349	381	495	559	635	800	857	/	/	/	/	/
	H1	IN	3.25	5.25	5.375	7	9.25	11.75	13.125	/	/	/	/	/
		MM	83	133	137	178	235	298	333	/	/	/	/	/
	H2	IN	8.5	10.25	12.125	18	20.25	24.25	25.125	/	/	/	/	/
		MM	216	260	308	457	514	616	638	/	/	/	/	/
WGT (RF)	LB	85	175	290	550	810	1650	2450	/	/	/	/	/	/
	MM	39	80	132	250	368	750	1114	/	/	/	/	/	/

CLASS 1500	SIZE	NPS	2	3	4	6	8	10	12	14	16	18
		DN	50	80	100	150	200	250	300	350	400	450
	A - RF	IN	13.625	17.25	20.25	24	32.375	34.375	41	50.5	/	/
		MM	346	438	514	610	822	873	1041	1283	/	/
	A - RTJ	IN	13.75	17.325	20.375	24.25	32.75	35	41.675	51.25	55.39	61.38
		MM	349	440	518	616	832	889	1059	1302	1407	1559
	H1	IN	3.25	5.25	5.375	7	9.25	11.75	13.125	14.875	/	/
		MM	83	133	137	178	235	298	333	378	/	/
	H2	IN	8.5	10.25	12.125	18	20.25	24.25	25.125	28.125	33.62	36.42
		MM	216	260	308	457	514	616	638	714	854	925
WGT (RF)	LB	85	175	290	550	810	1650	2450	2900	/	/	/
	MM	39	80	132	250	368	750	1114	1318	/	/	/

CLASS 2500	SIZE	NPS	2	3	4	6	8	10
		DN	50	80	100	150	200	250
	A - RF	IN	14.875	20.25	23.125	32	37.375	40.375
		MM	378	512	587	813	949	1026
	A - RTJ	IN	15	20.5	23.5	32.5	38	41.25
		MM	381	521	597	826	965	1022
	H1	IN	3.25	5.25	5.375	7	9.25	11.75
		MM	83	133	137	178	235	298
	H2	IN	8.5	10.25	12.125	18	20.25	24.25
		MM	216	260	308	457	514	616
WGT (RF)	LB	85	175	290	550	810	1650	1650
	MM	39	80	132	250	368	750	750



Southern California Valve

[Click here to access
PRINTABLE PDF.](#)



Dual Plate Check Valves - Wafer & Lug

Wafer Design

Class: 150 - 2500/Sizes: 1.5" - 84"

Lug Design

Class: 150 - 900/Sizes: 2" - 36"

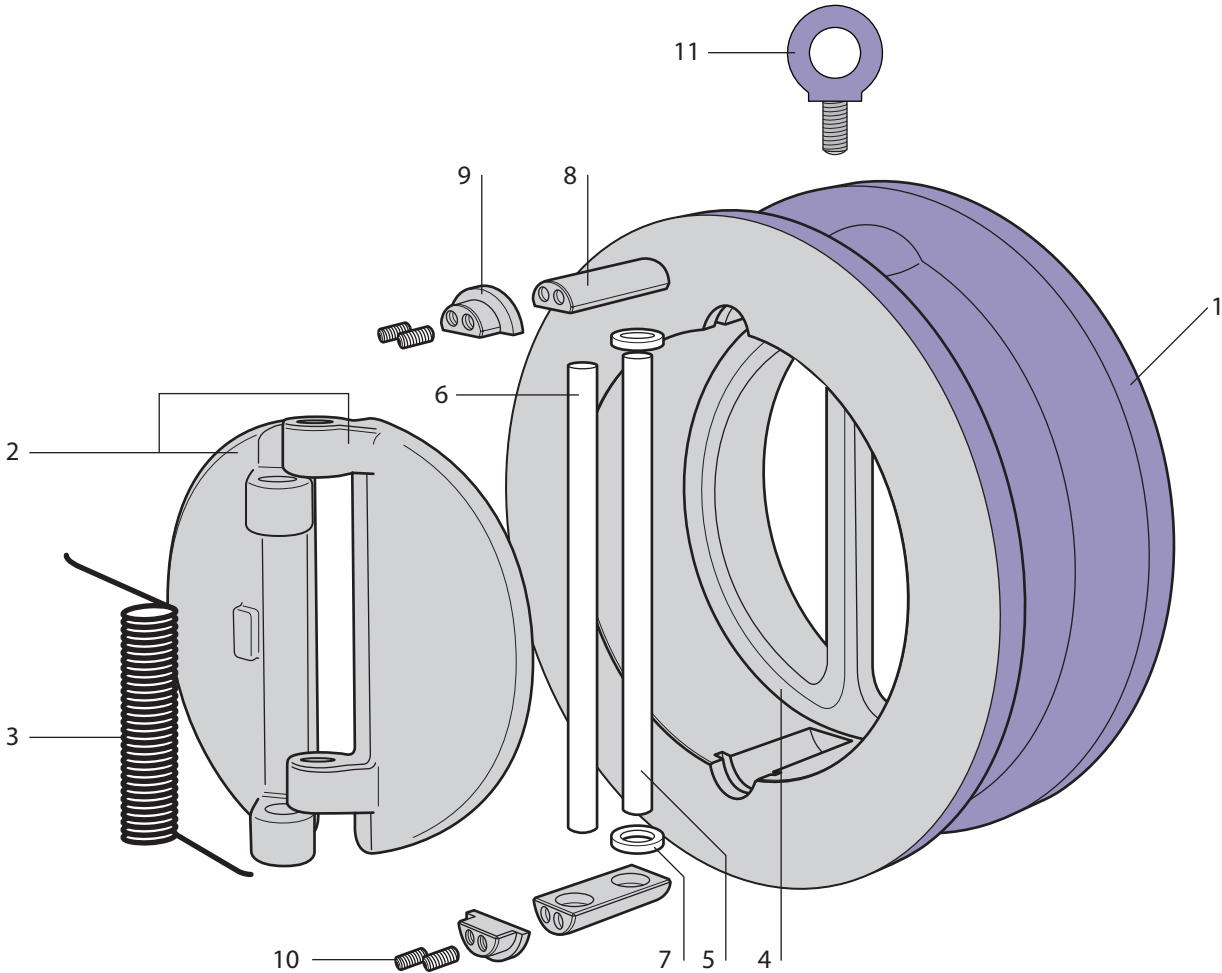
Design and Manufacturing Standards

Basic Design	API 594
Face to Face Dimension	API 594 & ANSI/ASME B16.10
Flange End Dimension	ANSI/ASME B16.5
Inspection & Testing	API 598



[Expanded View & Bill of Materials]

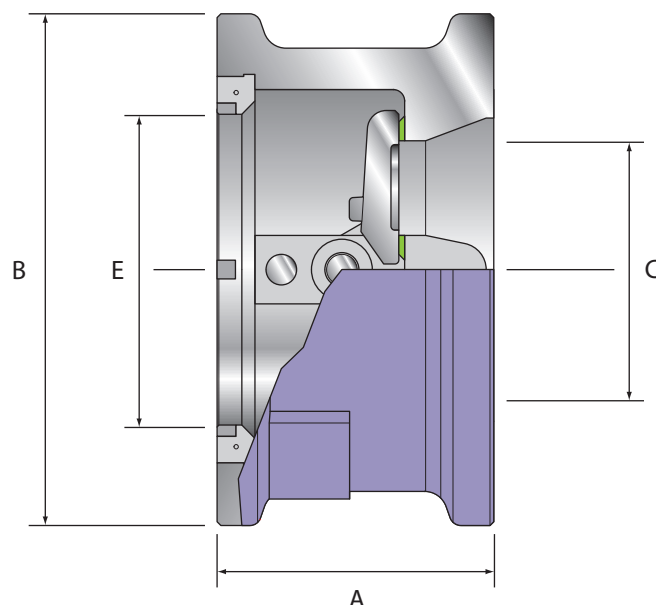
Bill of Materials			
No.	Part	WCB	CF8M
1	Body	A216-WCB	A351-CF8M
2	Disc	CF8M	A351-CF8M
3	Spring	Inconel X750	
4	Seat	Stellite 6	
5	Hinge Pin	316 SS	
6	Stop	316 SS	
7	Thrust Washer	316 SS	
8	Hinge Pin Guide Support	Carbon Steel	316 SS
9	Retainer	Carbon Steel	316 SS
10	Set Screw	Carbon Steel	316 SS
11	Eye Bolt	Carbon Steel	



Dual Plate Check Valve - Wafer Design Dimensions

Size: 2" - 84"

Class: 150 - 2500

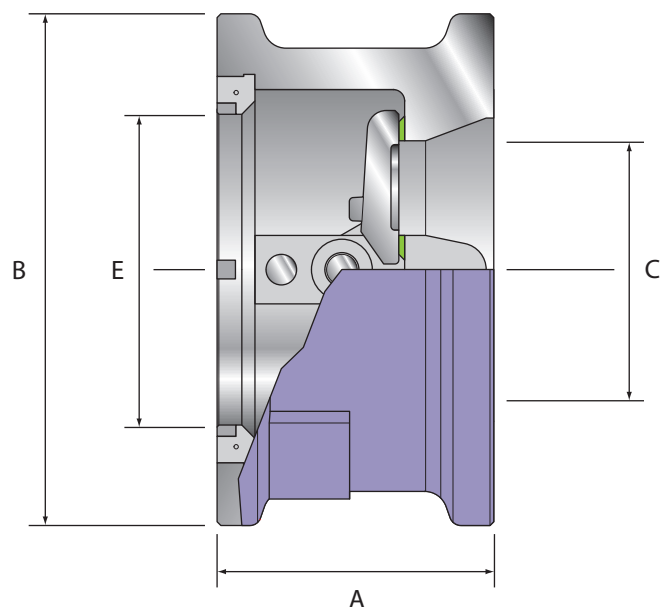


SIZE	CLASS	END FACING	A	B	BORE	E	STUD SELECTION			APPROX WT	
					C		NO	DIA	LENGTH	LB	KG
1.5 nps (40 DN)	150	RF	2.00	3.38	0	1.97	4	0.5	5	4	1.8
	300	RF/RJ-20	2.00	3.75	.87	1.97	4	0.75	6.5	4	1.8
	600	RF/RJ-20	2.00	3.75	.87	1.97	4	0.75	6.5	4	1.8
2 (50 DN)	150	RF	2.38	4.13	.87	2.25	4	0.625	6	7	3.2
	300	RF/RJ-23	2.38	4.38	.87	2.25	8	0.625	6.875	8	3.2
	600	RF/RJ-23	2.38	4.38	.87	2.25	8	0.625	6.875	8	3.2
	900	RF/RJ-24	2.75	5.63	.87	2.25	8	0.875	8.75	18	8.2
	1500	RF/RJ-24	2.75	5.63	.87	2.25	8	0.875	8.75	18	8.2
	2500	RF/RJ-26	2.75	5.75	.87	2.25	8	1	10	29	13.1
2.5 (65 DN)	150	RF	2.63	4.88	1.57	2.94	4	0.625	6.375	11	5
	300	RF	2.63	5.13	1.57	2.94	8	0.75	6.875	13	5
3 (80 DN)	150	RF	2.88	5.38	2	3.42	4	0.625	7	14	6.4
	300	RF	2.88	5.88	2	3.42	8	0.75	8.125	17	7.7
	600	RF	2.88	5.88	2	3.42	8	0.75	8.125	17	7.7
	900	RF/RJ-31	3.25	6.63	2.375	3.42	8	0.875	9.5	26	11.8
	1500	RF/RJ-35	3.25	6.88	2.375	3.42	8	1.125	10.5	28	12.7
	2500	RF/RJ-32	3.38	7.75	2.375	3.42	8	1.25	12.25	35	15.9
4 (100 DN)	150	RF	2.88	6.88	3.5	4.45	8	0.625	7	21	9.5
	300	RF	2.88	7.13	3.5	4.45	8	0.75	8.125	23	10.5
	600	RF/RJ-37	3.13	7.63	3.5	4.45	8	0.875	9.5	28	12.7
	900	RF/RJ-37	4.00	8.13	3.25	4.45	8	1.125	11	42	19.1
	1500	RF/RJ-39	4.00	8.25	3.25	4.45	8	1.25	12	45	20.5
	2500	RF/RJ-38	4.13	9.25	3.25	4.45	8	1.5	14.625	64	29.1
5 (125 DN)	150	RF	3.38	7.75	4.813	5.875	8	0.75	7.375	28	12.7
	300	RF	3.38	8.50	4.813	5.875	8	0.75	8.125	31	14.1
6 (150 DN)	150	RF	3.88	8.75	5.5	6.52	8	0.75	8.25	36	16
	300	RF	3.88	9.88	5.5	6.52	12	0.75	9.625	45	20
	600	RF/RJ-45	5.38	10.50	3.5	6.52	12	1	12.375	80	36
	900	RF/RJ-45	6.25	11.38	3.5	6.52	12	1.125	14	119	54
	1500	RF/RJ-46	6.25	11.13	3.5	6.52	12	1.375	16.75	116	52
	2500	RF/RJ-47	6.25	12.50	3.5	6.52	8	2	20.5	154	70

Dual Plate Check Valve - Wafer Design Dimensions

Size: 2" - 84"

Class: 150 - 2500

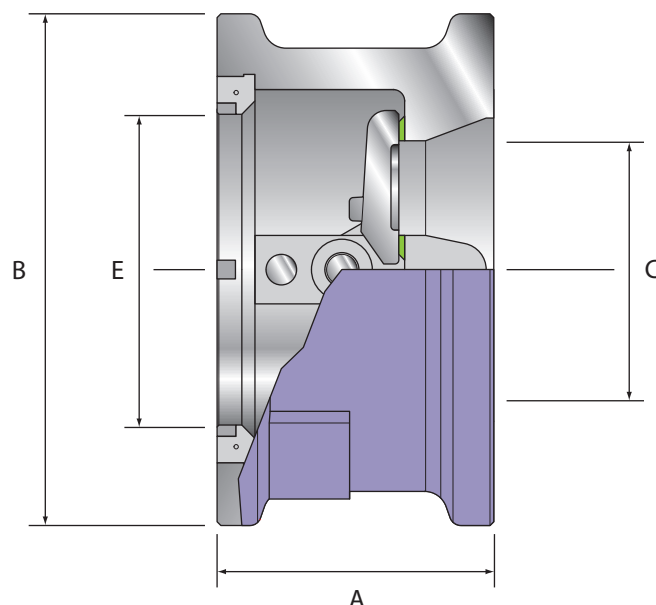


SIZE	PRESSURE RATING	END FACING	A	B	BORE	E	STUD SELECTION			APPROX WT	
					C		NO	DIA	LENGTH	LB	KG
8 (200 DN)	150	RF	5.00	11.00	6.75	8.13	8	0.75	9.75	80	36
	300	RF	5.00	12.13	6.75	8.13	12	0.875	11.125	88	40
	600	RF/RJ-49	6.50	12.63	6.625	8.13	12	1.125	14.5	160	72
	900	RF/RJ-49	8.13	14.13	5.125	8.13	12	1.375	17.125	271	122
	1500	RF/RJ-50	8.13	13.88	5.125	8.13	12	1.625	20.25	257	116
	2500	RF/RJ-51	8.13	15.25	5.625	8.13	12	2	24	293	132
10 (250 DN)	150	RF	5.75	13.38	9.25	10.25	12	0.875	11	116	52
	300	RF	5.75	14.25	9.25	10.25	16	1	12.75	124	56
	600	RF/RJ-53	8.38	15.75	7.875	10.25	16	1.25	17.125	260	118
	900	RF/RJ-53	9.50	17.13	7.688	10.25	16	1.375	19	434	196
	1500	RF/RJ-54	9.75	17.13	7.25	10.25	12	1.875	23.5	449	203
	2500	RF/RJ-55	10.00	18.75	7.5	10.25	12	2.5	30.5	480	217
12 (300 DN)	150	RF	7.13	16.13	10.25	11.82	12	0.875	12.25	215	97
	300	RF	7.13	16.63	10.25	11.82	16	1.125	14.625	217	98
	600	RF/RJ-57	9.00	18.00	9.125	11.82	20	1.25	18	360	164
	900	RF/RJ-57	11.50	19.625	8.125	11.82	20	1.375	21.75	644	293
	1500	RF/RJ-58	12.00	20.50	8.25	11.82	16	2	27.5	824	373
	2500	RF/RJ-60	12.00	21.63	8.875	11.82	12	2.75	34.5	870	394
14 (350 DN)	150	RF	7.25	17.75	11.25	13.34	12	1	13	270	123
	300	RF	8.75	19.13	11.25	13.34	20	1.125	16.5	390	176
	600	RF/RJ-61	10.75	19.38	9.125	13.34	20	1.375	20.25	410	186
	900	RJ/RJ-62	14.00	20.50	9.45	13.34	20	1.5	25.5	872	396
	1500	RF/RJ-63	14.00	22.75	7.87	13.34	16	2.25	31.5	1068	484
16 (400 DN)	150	RF	7.50	20.25	13.063	15.25	16	1	13.5	295	133
	300	RF	9.13	21.25	13	15.25	20	1.25	17.375	458	207
	600	RF/RJ-65	12.00	22.25	13	15.25	20	1.5	22.25	728	331
	900	RF/RJ-66	15.13	22.63	6.375	15.25	20	1.625	27.125	1174	532
	1500	RF/RJ-67	15.125	25.25	6.375	15.25	16	2.5	34.25	1295	587
18 (450 DN)	150	RF	8.00	21.63	15.563	17.25	16	1.125	14.5	312	141
	300	RF	10.38	23.50	15.375	17.25	24	1.25	18.875	650	294
	600	RF/RJ-69	14.25	24.13	13	17.25	20	1.625	25.25	870	394
	900	RF/RJ-70	17.75	25.13	9.625	17.25	20	1.875	34.5	1344	611
	1500	RF/RJ-71	18.44	27.75	7.25	17.25	16	2.75	39.75	1745	791

Dual Plate Check Valve - Wafer Design Dimensions

Size: 2" - 84"

Class: 150 - 2500

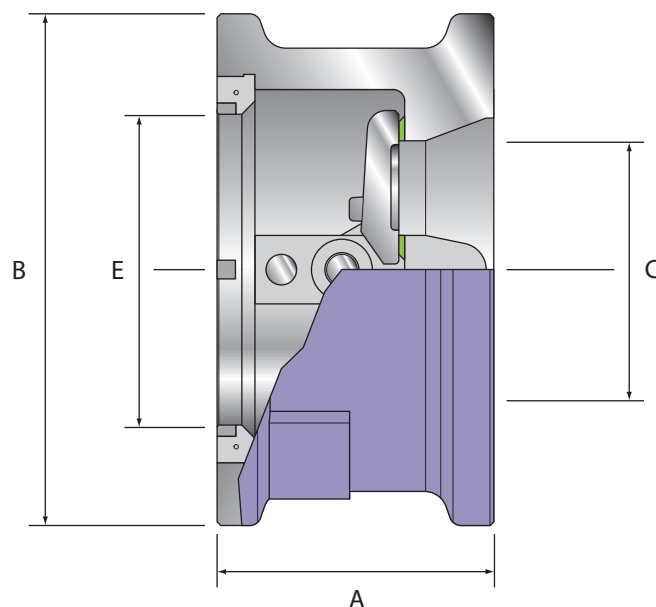


SIZE	CLASS	END FACING	A	B	BORE	E	STUD SELECTION			APPROX WT	
					C		NO	DIA	LENGTH	LB	KG
20 (500 DN)	150	RF	8.63	23.88	17.25	19.19	20	1.125	15.125	472	215
	300	RF	11.50	25.75	17.25	19.19	24	1.25	20.5	801	363
	600	RF/RJ-73	14.50	26.88	17	19.19	24	1.625	26.25	1196	544
	900	RF/RJ-74	17.75	27.50	16	19.19	20	2	32.5	1406	637
	1500	RF/RJ-75	21.00	29.75	8.25	19.19	16	3	44.25	2812	1275
24 (600 DN)	150	RF	8.75	28.25	21.125	22.78	20	1.25	16.25	788	358
	300	RF	12.50	30.50	20.625	22.78	24	1.5	22.75	1150	521
	600	RF/RJ-77	17.25	31.13	20.063	22.78	24	1.875	30.75	1802	819
	900	RF/RJ-78	19.50	33.00	17.5	22.78	20	2.5	38	2713	1230
	1500	RF/RJ-79	22.00	35.50	15.375	22.78	16	3.5	48.5	5968	2713
26 (600 DN)	150	RF	14.00	30.50	23.5	24.78	24	1.25	23.125	1056	680
	300	RF	14.00	32.88	23.5	24.78	28	1.625	24.75	1619	735
	600	RF/RJ-73	18.00	34.13	22.75	24.78	28	1.875	31.5	1855	842
	900	RF/RJ-100	21.00	34.75	22	24.78	20	2.75	38.75	2605	1182
	1500	RF	15.00	32.75	25.5	26.78	28	1.25	24.375	1196	544
28 (700 DN)	300	RF	15.00	35.38	25.5	26.78	28	1.625	26.25	1612	733
	600	RF/RJ-94	19.00	36.00	24.75	26.78	28	2	33	1916	871
	900	RF/RJ-101	22.50	37.25	24	26.78	20	3	41	3170	1441
	1500	RF	12.00	34.75	25.25	28.93	28	1.25	21	1456	662
	300	RF	14.50	37.50	25.25	28.93	28	1.75	26.5	2100	952
30 (750 DN)	600	RF/RJ-95	19.88	38.25	23	28.93	28	2	34.125	3472	1578
	900	RF/RJ-102	25.00	39.75	23	28.93	20	3	44	4024	182
	1500	RF	14.00	37.00	25.25	30.87	28	1.5	24.625	1556	707
	300	RF	16.00	39.63	25.25	30.87	28	1.875	28.75	3597	1635
	600	RF/RJ-96	21.00	40.25	24	30.87	28	2.25	36	3835	1743
32 (800 DN)	900	RF/RJ-105	26.00	42.25	24	30.87	20	3.25	46.25	4475	2034
	1500	RF	14.50	41.25	25.5	34.04	32	1.5	25.875	1505	682
	300	RF	19.00	44.00	25.5	34.04	32	2	32.5	2799	1269
	600	RF/RJ-98	25.00	44.50	20.75	34.04	28	2.5	45	4664	2120
	900	RF/RJ-105	28.25	47.25	14	34.04	20	3.5	50.75	7183	3259

Dual Plate Check Valve - Wafer Design Dimensions

Size: 2" - 84"

Class: 150 - 2500

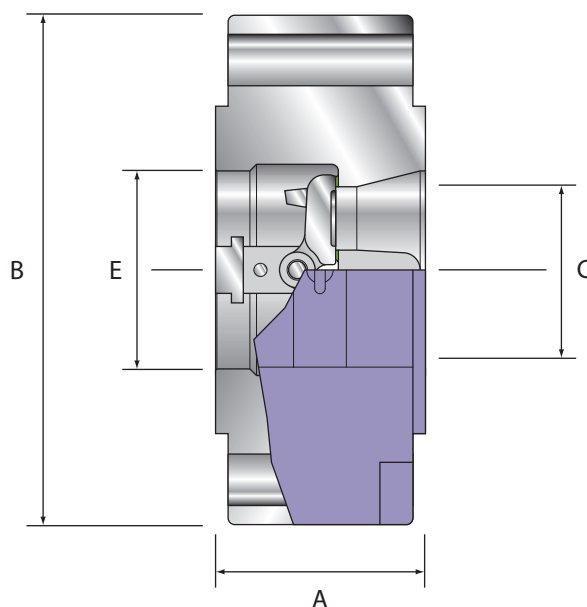


SIZE	CLASS	END FACING	A	B	BORE	E	STUD SELECTION			APPROX WT	
					C		NO	DIA	LENGTH	LB	KG
40 (1000 DN)	150	RF	17.00	45.75	34.75	38.87	36	1.5	27.375	1980	900
	300	RF	21.50	43.88	29.5	35.78	32	1.625	35	4015	1825
	600	RF	26.00	45.50	29.25	35.78	32	2.25	44.25	8250	3750
	900	RF	30.00	49.25	29	35.78	24	3.5	53.75	8738	3972
42 (1050 DN)	150	RF	17.00	48.00	36.813	41.81	36	1.5	28.875	2500	1134
	300	RF	22.38	45.88	32.938	39.98	32	1.625	37	5800	2630
	600	RF	27.63	48.00	25.5	38.26	28	2.5	47.125	6897	3135
	900	RF	31.00	51.25	23	38.26	24	3.5	59.25	8074	3670
48 (1200 DN)	150	RF	20.63	54.50	40.813	46.98	44	1.5	33.375	6616	3007
	300	RF	24.75	52.13	38	44.73	32	1.875	40.5	8600	3909
	600	RF	31.00	54.75	35	44.73	32	2.75	54	9715	4416
54 (1400 DN)	150	RF	23.25	61.00	43	50.45	44	1.75	38.25	7097	3225
	300	RF	28.25	58.75	43	50.45	28	2.25	47.25	8532	3878
60 (1500 DN)	150	RF	26.00	67.50	47.5	55.97	52	1.75	42	9126	4148
	300	RF	33.00	64.75	47.5	55.97	32	2.25	53	11863	5392
66 (1650 DN)	150	RF	31.00	74.25	56.5	65.46	52	1.75	45	16800	7636
72 (1800 DN)	150	RF	33.50	80.75	60.25	71.58	60	1.75	48	18900	8590
78 (1950 DN)	150	RF	36.50	87	65.5	77.716	64	2	52	22522	10237
84 (2100 DN)	150	RF	41.00	93.5	69	95.5	64	2	57	28111	12777

Dual Plate Check Valve - Lug Design Dimensions

Size: 2" - 36"

Class: 150 - 900

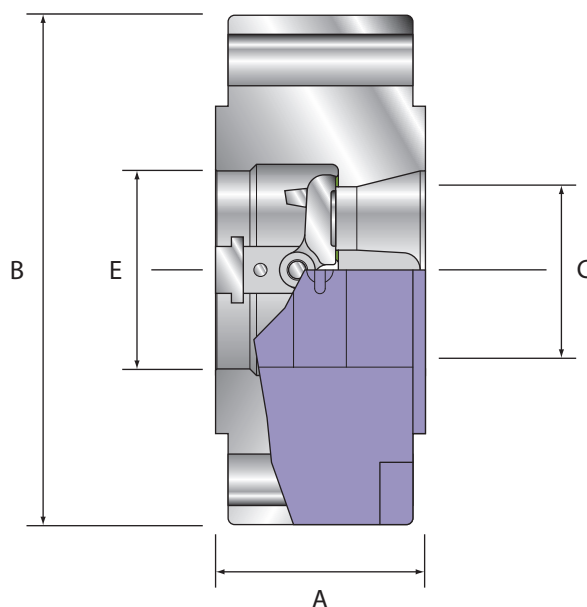


SIZE	CLASS	A	B	BORE	E	STUD SELECTION			APPROX WT	
				C		NO	DIA	LENGTH	LB	KG
2 (50 DN)	150	2.375	6.5	.87	2.25	4	0.625	6	17	9
	300	2.375	6.5	.87	2.25	8	0.625	6.875	18	8
	600	2.375	6.5	.87	2.25	8	0.625	6.875	18	8
	900	2.75	8.5	.87	2.25	8	0.875	8.75	37	17
2.5 (65 DN)	150	2.625	7.5	1.57	2.94	4	0.625	6.375	17	8
	300	2.625	7.5	1.57	2.94	8	0.75	6.875	22	10
	600	2.625	7.5	1.57	2.94	8	0.75	6.875	22	10
3 (80 DN)	150	2.875	8.25	2	3.42	4	0.625	7	17	8
	300	2.875	8.25	2	3.42	8	0.75	8.125	30	14
	600	2.875	8.25	2	3.42	8	0.75	8.125	30	14
	900	3.75	9.5	2.375	3.42	8	0.875	9.5	57	26
4 (100 DN)	150	2.875	9	3.5	4.45	8	0.625	7	28	13
	300	2.875	10	3.5	4.45	8	0.75	8.125	36	16
	600	3.125	10.75	3.5	4.45	8	0.875	9.5	50	23
	900	4	11.5	3.25	4.45	8	1.125	11	98	45
5 (125 DN)	150	3.38	10	4.813	5.875	8	0.75	7.375	36	16
	300	3.38	11	4.813	5.875	8	0.75	8.125	51	23
6 (150 DN)	150	3.88	11	5.5	6.52	8	0.75	8.25	48	22
	300	3.88	12.25	5.5	6.52	12	0.75	9.625	84	38
	600	5.38	14	3.5	6.52	12	1	12.375	183	83
	900	6.25	15	3.5	6.52	12	1.125	14	252	114
8 (200 DN)	150									
	300	3.875	15	6.75	8.13	12	0.875	11.125	135	61
	600	5.375	16.5	6.625	8.13	12	1.125	14.5	295	134
	900	6.25	18.5	5.125	8.13	12	1.375	17.125	441	200
10 (250 DN)	150									
	300	5.75	17.5	9.25	10.25	16	1	12.75	270	123
	600	8.375	20	7.875	10.25	16	1.25	17.125	540	245
	900	9.5	21.5	7.688	10.25	16	1.375	19	787	357

Dual Plate Check Valve - Lug Design Dimensions

Size: 2" - 36"

Class: 150 - 900

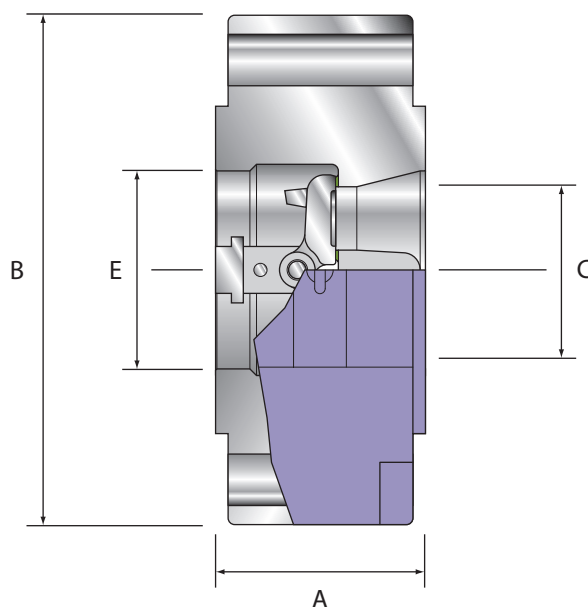


SIZE	CLASS	A	B	BORE	E	STUD SELECTION			APPROX WT	
				C		NO	DIA	LENGTH	LB	KG
12 (300 DN)	150	7.125	19	10.25	11.82	12	0.875	5.5	276	125
	300	7.125	20.5	10.25	11.82	16	1.125	7.5	338	153
	600	9	22	9.125	11.82	20	1.25	9	527	239
	900	11.5	24	8.125	11.82	20	1.375	10.25	767	347
14 (350 DN)	150	7.25	21	11.25	13.34	12	1	6	318	144
	300	8.75	23	11.25	13.34	20	1.125	7.75	456	207
	600	10.75	23.75	9.125	13.34	20	1.375	9.5	835	378
	900	14	25.25	9.45	13.34	20	1.5	11.25	1235	560
16 (400 DN)	150	7.5	23.5	13.063	15.25	16	1	6	388	176
	300	9.125	25.5	13	15.25	20	1.25	8.25	664	301
	600	12	27	13	15.25	20	1.5	10.25	996	451
	900	15.125	27.75	6.375	15.25	20	1.625	11.75	1206	547
18 (450 DN)	150	8	25	15.563	17.25	16	1.125	6.5	464	210
	300	10.375	28	15.375	17.25	24	1.25	8.5	862	3925
	600	14.25	29.25	13	17.25	20	1.625	11	1319	598
	900	17.75	31	9.625	17.25	20	1.875	13.5	1842	835
20 (500 DN)	150	8.625	27.5	17.25	19.19	20	1.125	7	596	270
	300	11.5	30.5	17.25	19.19	24	1.25	9	1080	489
	600	14.5	32	17	19.19	24	1.625	11.75	1680	762
	900	17.75	33.75	16	19.19	20	2	14.5	3931	1783
24 (600 DN)	150	8.75	32	21.125	22.78	20	1.25	7.5	842	381
	300	12.5	36	20.625	22.78	24	1.5	10.25	1664	756
	600	17.25	37	20.063	22.78	24	1.875	13.5	2520	1143
	900	19.5	41	17.5	22.78	20	2.5	18.25	4164	1888
26 (650 DN)	150	14	34.25	23.5	24.78	24	1.25	9	2215	1007
	300	14	38.25	23.5	24.78	28	1.625	11	2724	1238
	600	18	40	22.75	24.78	28	1.875	14.625	3120	1418
	900	21	42.75	22	24.78	20	2.75	19.125	4380	1991

Dual Plate Check Valve - Lug Design Dimensions

Size: 2" - 36"

Class: 150 - 900



SIZE	CLASS	A	B	BORE	E	STUD SELECTION			APPROX WEIGHT	
				C		NO.	DIAMETER	LENGTH	LB	KG
28 (700 DN)	150	12	36.5	25.5	26.78	28	1.25	9.25	2255	1025
	300	15	40.75	25.5	26.78	28	1.625	11.5	2464	1120
	600	19	42.25	24.75	26.78	28	2	15.375	3227	1467
	900	22.5	46	24	26.78	20	3	20.5	5337	2426
30 (750 DN)	150	12	38.75	25.25	28.93	28	1.25	9.5	1745	793
	300	14.5	43	25.25	28.93	28	1.75	12	3527	1603
	600	19.875	44.5	23	28.93	28	2	16	5379	2445
	900	25	48.5	23	28.93	20	3	21.375	6776	3080
32 (800 DN)	150	14	41.75	25.25	30.87	28	1.5	10.5	5168	2349
	300	16	45.25	25.25	30.87	28	1.875	12.625	6057	2753
	600	21	47	24	30.87	28	2.25	17.125	6457	2935
	900	26	51.75	24	30.87	20	3.25	22.75	7535	3425
36 (900 DN)	150	14.5	46	25.5	34.04	32	1.5	11.25	2526	1148
	300	19	50	25.5	34.04	32	2	13.75	4701	2137
	600	25	51.75	20.75	34.04	28	2.5	18.75	10417	4735
	900	28.25	57.5	14	34.04	20	3.5	24.875	t	t

THE GATE KEEPERS

SCV can calm your worries in any project storm.

Harness the power of quality and fast deliveries from our \$45 million ready-to-ship inventory.



SOUTHERN CALIFORNIA VALVE

manufactures some of the most dependable cast steel Thru Conduit Slab and Expanding Gate Valves in the industry. Both designs utilize flanged and butt-weld end connections, and are manufactured and tested in accordance with API 6D. The full port bi-directional flow capability minimizes pressure drop and turbulence. The **SCV** design offers many features and options beneficial for oil, gas, and liquid applications making it one of the most demanded Thru Conduit Gate valves on the market.

SCV also offers a complete line of gates, globes, checks, balls, plugs, and sub-sea designs in all sizes, pressure classes, and metallurgical compositions.

SCV valves are built to meet and exceed the most rigorous quality and production standards. **SCV** operates under the API Q1 Quality Management System and holds API 6A, API 6D, ISO: 9001:2008, CE-PED, and CRN certifications.

For more than 40 years, SCV has served industries including the power, paper and pulp, oil and gas, transmission, and petrochemical sectors. We pride ourselves on our high quality products, timely delivery capabilities, and competitive prices.



Southern California Valve
Innovative Valve Solutions™

www.scvvalve.com • 281.482.4728





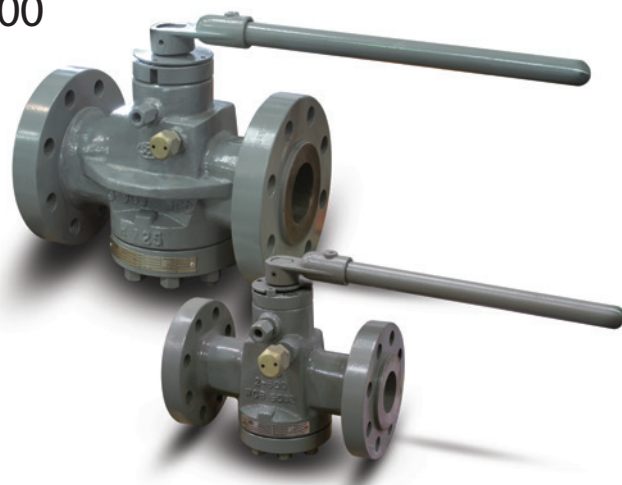
Superior Performance Plug Valves

Available Sizes: 2" thru 36" | Class: 150 thru 2500

Stocking Sizes: 2" thru 16" | Class: 150 thru 2500

Southern California Valve Pressure Balanced, Lubricated Plug Valves are ideal for the following applications:

- Oil & Gas Distribution, Processing, & Transmission
- Wastewater Collection & Treatment
- Crude Handling & Treatment
- Petro Chemical & Refineries
- Waste Transfer & Processing
- Slurry Transfer & Processing
- Steam Systems
- General Industries



API 6D | Pressure Balanced | Lubricated | Metal-to-Metal Seal | API 6FA Firesafe Design | 410SS Trim | NACE MR 01 75

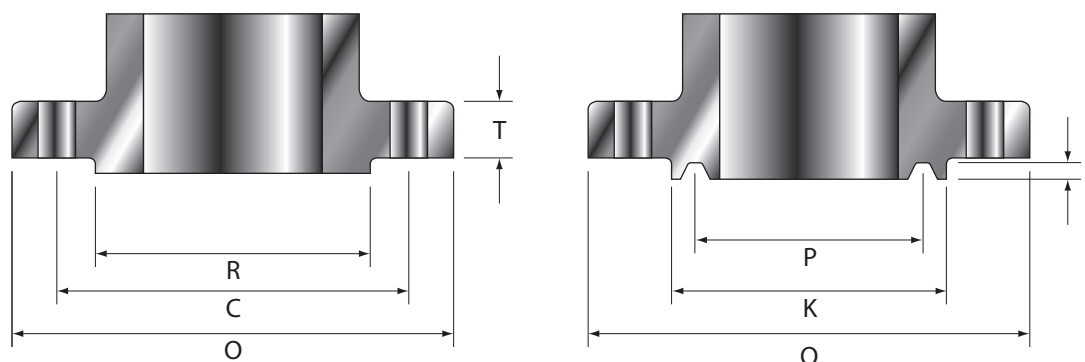
SCV is Certified: API 6A, API 6D, CE PED, CRN (Alberta, Manitoba, & Ontario)



Southern California Valve
Innovative Valve Solutions®

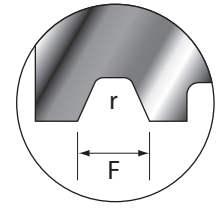
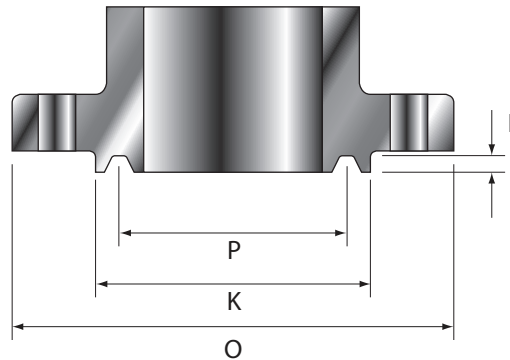
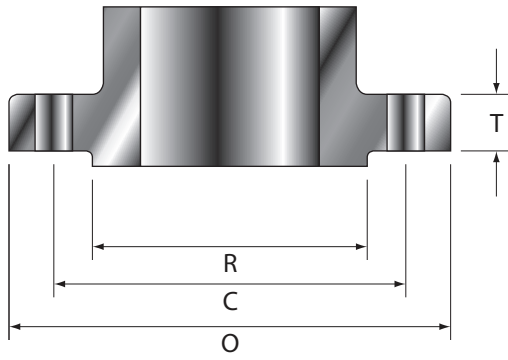
www.scvvalve.com
Phone: 281.482.4728

Flange Dimensions - ANSI B16.5 & B16.47



Class	Size	Flg. Dia.	Flg. Thick.	Raised Face Dia.	Drilling			Face Dia.	Ring Joint				
		O	T		Bolt Circle Dia.	# of Bolts	Hole Dia.		Pitch Dia.	Grv. Depth	Grv. Width	Btm. Radius	Ring No.
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.	Circle Raise	Drilling			Face Dia.	Ring Joint				
		O	T	R	Bolt Circle Dia.	# of Bolts	Hole Dia.	K	Pitch Dia.	Grv. Depth	Grv. Width	Btm. Radius	Ring No.
600	2	6.50	1.00	3.62	5.00	8	0.75	4.25	3.250	0.312	0.469	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	R26
	3	8.25	1.25	5.00	6.62	8	0.88	5.75	4.875	0.312	0.469	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	R37
	6	14.00	1.88	8.50	11.50	12	1.12	9.50	8.312	0.312	0.469	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	R49
	10	20.00	2.50	12.75	17.00	16	1.38	14.00	12.750	0.312	0.469	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	R57
	14	23.75	2.75	16.25	20.75	20	1.5	18.00	16.500	0.312	0.469	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	R65
	18	29.25	3.25	21.00	25.75	20	1.75	22.62	21.000	0.312	0.469	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	R73
900	2	8.5	1.5	3.62	6.5	8	1	4.88	3.75	0.312	0.469	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	R27
	3	9.50	1.50	5.00	7.50	8	1.00	6.12	4.875	0.312	0.469	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	R37
	6	15.50	2.19	8.50	12.50	12	1.25	9.50	8.312	0.312	0.469	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	R49
	10	21.50	2.75	12.75	18.50	16	1.50	14.25	12.750	0.312	0.469	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	R57
	14	25.25	3.38	16.25	22.00	20	1.62	18.38	16.500	0.438	0.656	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	R66
	18	31.00	4.00	21.00	27.00	20	2.00	23.38	21.00	0.500	0.781	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	R74
1500	2	8.50	1.50	3.62	6.50	8	1.00	4.88	3.750	0.312	0.469	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	R27
	3	10.50	1.88	5.00	8.00	8	1.25	6.62	5.375	0.312	0.469	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	R39
	6	15.50	3.25	8.50	12.50	12	1.50	9.75	8.312	0.375	0.531	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	R50
	10	23.00	4.25	12.75	19.00	12	2.00	14.62	12.750	0.438	0.656	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	R58
	14	29.50	5.25	16.25	25.00	16	2.38	19.25	16.500	0.625	1.062	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	R67
	18	36.00	6.38	21.00	30.50	16	2.88	24.12	21.000	0.688	1.188	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	R75
2500	24	46.00	8.00	27.25	39.00	16	3.62	31.25	27.250	0.812	1.438	0.09	R79
	2	9.25	2.00	3.62	6.75	8	1.00	4.48	4.000	0.312	0.469	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	R28
	3	12.00	2.62	5.00	9.00	8	1.25	6.61	5.000	0.375	0.531	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	R38
	5	16.50	3.62	7.31	12.75	8	1.75	9.48	7.500	0.500	0.781	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	R47
	8	21.75	5.00	10.62	17.25	12	2.00	13.38	11.000	0.562	0.906	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	R55
	12	30.00	7.25	15.00	24.38	12	2.75	19.48	16.000	0.688	1.312	0.090	R60

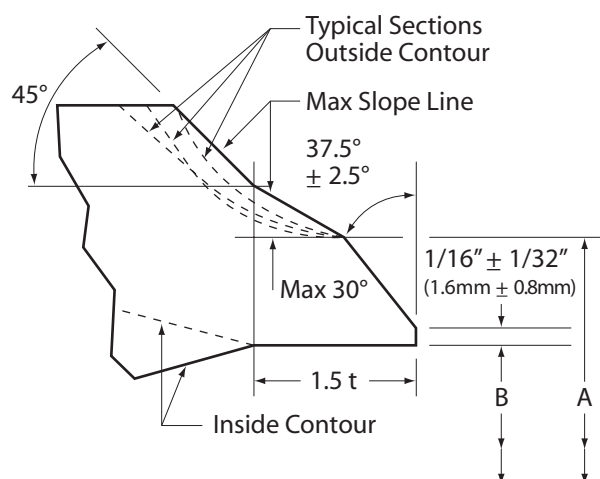
Butt-welding Dimensions - ANSI B16.25

Nominal Pipe Size	Schedule Number or Wall	Outside Diameter (Cast Steel Valves) A		Nominal Inside Diameter B		Machined Inside Diameter C		Nominal Wall Thickness t	
		Inches	mm	Inches	mm	Inches	mm	Inches	mm
3	xxs	3-19/32	91.282	2.300	58.42	2.409	61.19	0.600	15.24
4	xxs	4-5/8	117.48	3.152	80.06	3.279	83.29	0.674	17.12
5	160	5-11/16	144.46	4.313	109.55	4.428	112.47	0.625	15.88
	xxs			4.063	103.20	4.209	106.91	0.750	19.05
6	120	6-25/32	172.34	5.501	139.72	5.600	142.24	0.562	14.27
	160			5.189	131.80	5.327	135.31	0.719	18.26
	xxs			4.897	124.38	5.072	128.83	0.864	21.95
8	100	8-23/32	223.04	7.439	188.93	7.546	191.67	0.594	15.09
	120			7.189	182.60	7.327	186.11	0.719	18.26
	140			7.001	177.83	7.163	181.94	0.812	20.62
	xxs			6.875	174.63	7.053	179.15	0.875	22.23
	160			6.813	173.05	6.998	177.75	0.960	23.01
10	50	10-15/16	277.81	9.564	242.93	9.671	245.64	0.594	15.09
	100			9.314	236.58	9.452	240.08	0.719	18.26
	120			9.064	230.23	9.234	234.54	0.844	21.44
	140			8.750	222.25	8.959	227.56	1.000	25.40
	160			8.500	215.90	8.740	222.00	1.125	28.58
12	60	12-31/32	329.41	11.626	295.30	11.725	297.82	0.562	14.27
	80			11.376	288.95	11.507	292.28	0.688	17.48
	100			11.064	281.03	11.234	284.34	0.844	21.44
	120			10.750	273.05	10.959	278.36	1.000	25.40
	140			10.500	266.70	10.740	272.80	1.125	28.58
	160			10.126	257.20	10.413	264.49	1.312	33.32
14	60	14-1/4	361.95	12.814	352.48	12.921	328.19	0.594	15.09
	80			12.500	317.50	12.646	321.21	0.750	19.05
	100			12.126	308.00	12.319	312.90	0.938	23.83
	120			11.814	300.08	12.046	305.97	1.094	27.79
	140			11.500	292.10	11.771	298.98	1.250	31.75
	160			11.188	284.18	11.498	292.05	1.406	35.71
16	60	16-1/4	412.75	14.688	373.08	14.811	376.20	0.656	16.66
	80			14.314	363.58	14.484	367.89	0.844	21.44
	100			13.938	354.03	14.155	359.54	1.031	26.19
	120			13.564	344.53	13.827	351.21	1.219	30.96
	140			13.124	333.35	13.442	341.43	1.438	36.53
	160			12.814	325.48	13.171	334.54	1.594	40.49
18	40	18-9/32	464.34	16.876	428.65	16.975	431.17	0.562	14.27
	60			16.500	419.10	16.646	422.81	0.750	19.05
	80			16.126	409.60	16.319	414.50	0.938	23.83
	100			15.688	398.48	15.936	404.50	1.156	29.36
	120			15.250	387.35	15.553	395.05	1.375	34.93
	140			14.876	377.85	15.225	386.72	1.562	39.67
	160			14.438	366.73	14.842	376.99	1.781	45.24
	160			14.438	366.73	14.842	376.99	1.781	45.24
20	40	20-5/16	515.94	18.814	477.88	18.921	480.59	0.594	15.09
	60			18.376	466.75	18.538	470.87	0.812	20.62
	80			17.938	455.63	18.155	461.14	1.031	26.19
	100			17.438	442.93	17.717	450.01	1.281	32.54
	120			17.000	431.80	17.334	440.28	1.500	38.10
	140			16.500	419.10	16.896	429.16	1.750	44.45
	160			16.064	408.03	16.515	419.48	1.969	50.01
	160			16.064	408.03	16.515	419.48	1.969	50.01
24	30	24-3/8	619.13	22.876	581.05	22.975	583.57	0.562	14.27
	40			22.626	574.70	22.757	578.03	0.688	17.48
	60			22.064	560.43	22.265	565.53	0.969	24.61
	80			21.564	547.73	21.827	554.41	1.219	30.96
	100			20.938	531.83	21.280	540.51	1.531	38.89
	120			20.376	517.55	20.788	528.02	1.812	46.02
	140			19.876	504.85	20.350	516.89	2.062	52.37
	160			19.314	490.58	19.859	504.42	2.344	59.54

Butt-welding Dimensions - ANSI B16.25

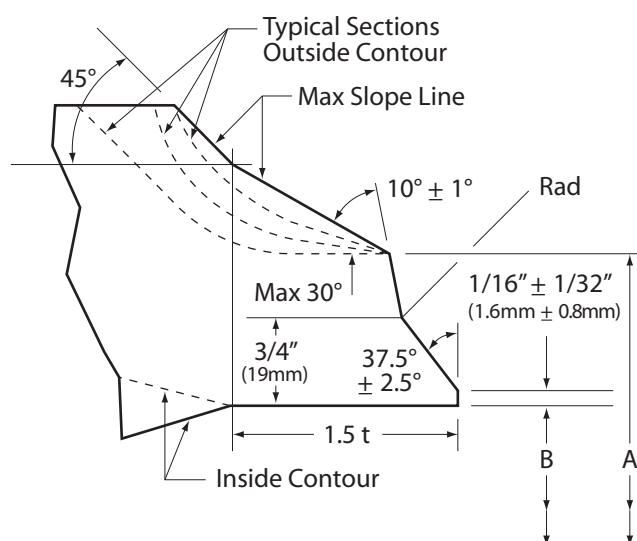
Plain Bevel Butt-welding End for Pipe Wall Thickness is 7/8" (22.23mm) or less.

Welding end details for cast components for use without backing ring or with split backing ring.



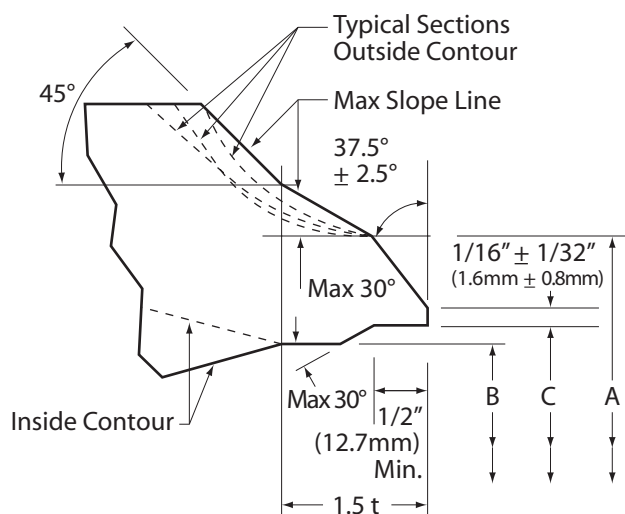
Compound Bevel Butt-welding End for Pipe Wall Thickness Greater than 7/8" (22.23mm).

Welding end details for cast components for use without backing ring or with split backing ring.



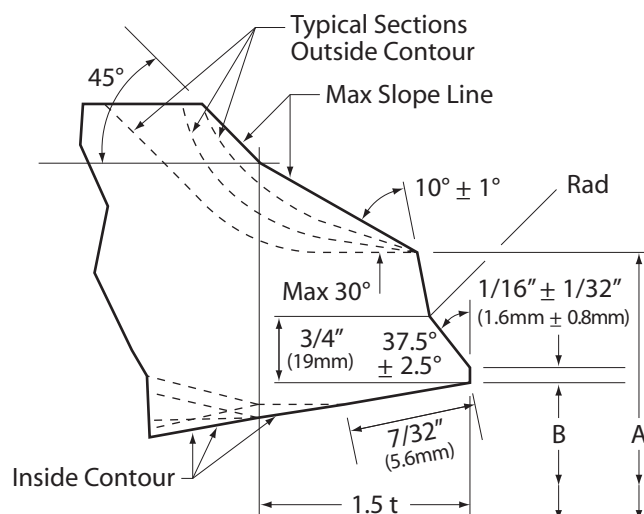
Plain Bevel Butt-welding End for Pipe Wall Thickness is 7/8" (22.23mm) or less.

Welding end details for cast components for use with continuous rectangular or tapered backing ring.



Compound Bevel Butt-welding End for Pipe Wall Thickness Greater than 7/8" (22.23mm).

Welding end details for cast components for use with continuous rectangular or tapered backing ring.



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 thread
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 butt welding 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 & butt welding
API 597 - Steel venturi gate valves, flanged, butt welding 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 & butt weld 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 941 - 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

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 & butt weld 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

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

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 & butt weld 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 other 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 Facility Santa Fe Spings, California 90670) - 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 with-hold 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 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. | Cancellation Charge: 10% |
| • Time of cancellation: After start of engineering but prior to release to production. | Cancellation Charge: 30% |
| • Time of cancellation: After release to production but prior to completion of fabrication. | Cancellation Charge: 80% |
| • Time of cancellation: After completion of fabrication. | Cancellation Charge: 100% |

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 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.

Southern California Valve 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 the shortcomings of other valve products in service, SCV manufactured its first valve. Since that time, Southern California Valve has expanded our manufactured products to cover a broad range of valves. Industries served include the power, paper and pulp, oil and gas, and petro-chemical sectors.

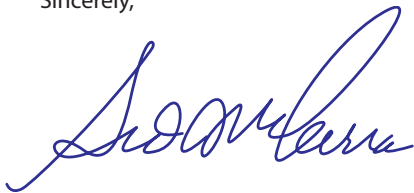
Southern California Valve takes sincere pride in our ability to manufacture both commodity and specialty valves that meet and exceed the needs of our customers. All sizes, pressure classes, and metallurgical compositions are managed in house utilizing the strictest quality control measures to ensure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

Southern California Valve products include gates, globes, checks, balls, and plugs. Valves utilized throughout the industry must meet rigorous quality and production standards. Southern California 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, Southern California 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 on the West Coast. We pride ourselves on our high quality products, timely delivery capabilities, and competitive prices.

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

Sincerely,



Sid McCarra
President - Texas Operations
Southern California Valve

Since 1972, Southern California Valve 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 on the West Coast, Southern California Valve's reputation is unparalleled for producing high quality commodity and specialty valves. Products range in sizes 1/4" - 84", 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.scvvalve.com.

**SALES, PROJECTS, ENGINEERING,
MANUFACTURING, & WAREHOUSING**

3521 FM 646 Rd. North
Santa Fe, TX 77510
Phone: (281) 482-4728
Fax: (281) 482-9728

Hours: 8:00 a.m. to 5:00 p.m. Central Standard
Email: sales@scvvalve.com

**MANUFACTURING &
WAREHOUSING**

13903 Maryton Ave.
Santa Fe Springs, CA 90670
Phone: (562) 404-2246
Toll Free: (800) 554-6421

Fax: (562) 404-2836
Hours: 8:00 a.m. to 5:00 p.m. Pacific



Southern California Valve

(281) 482-4728 • www.scvvalve.com