



(281) 482-4728 · www.scvvalve.com







SCV 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.

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

Innovative Valve Solutions.®

[Product Preview]

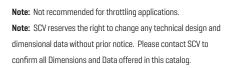
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For more information call us @ (281) 482-4728 or visit our website @ www.scvvalve.com

Piston Check Valves - API 6D

- Basic Design: API 6D
- 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 & Testing: API 6D





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.scvvalve.com.



Design: B16.34 Sizes: 1/2" - 12" Class: 150 - 1500 Standard stock.



Design: API 6D Sizes: 2" - 36" Class: 150 - 2500 Standard stock

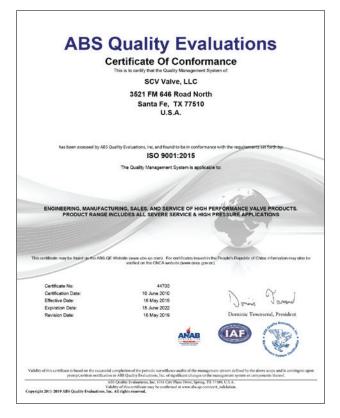
American Petroleum Institute (API)

API 6A Certification



Note: Extension letter availavle on our website.

ISO 9001:2015 Certificate



Canadian Registration Number

- Alberta - 0C07063.2
- British Columbia - 0C07063.21
- 0C07063.27 • New Foundland & Laborador 🔗 Novascotia - 0C07063.20

New Brunswick

- Northwest Territory - 0C07063.25
 - OCO7063.27

API 6D Certification



Note: Extension letter available on our website

CE PED Certificate





- 0C07063.24

Manitoba

Ontario - 0C07063.25

 Yukon - 0C07063.2

 Prince Edward island - 0C07063.29

SCV Figure Number Chart

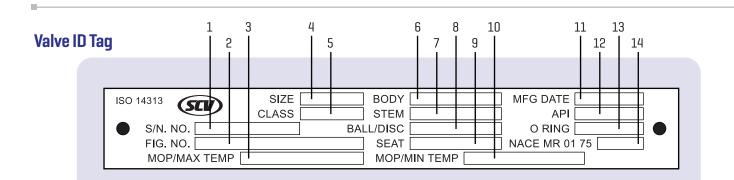
1	2	3	4	5	6	7	8
Valve Type	Bore Size	Pressure Class	Body/Bonnet	Body Material	Trim Material	Ends	Operator
BAL = Trunnion Ball Valve	49 = 1/4"	01 = 150	B = Bolted	02 = A352 LCC	02 = A352 LCC + ENP	A = RF x WE	B = Bare Stem
DBV = Double Ball Valve	50 = 1/2"	02 = 200	L = Lug Style	04 = A351 CF8	04 = A352 LCB + ENP	B = RTJ x WE	D = Dual Acting Actuator
DCK = Dual Plate Check Valve	75 = 3/4"	03 = 300	P = Pressure Seal	05 = A351 CF8C	06 = A216 WCC + ENP	C = Clamp	E = Electric Actuator
EPG = Expanding Gate Valve	01 = 1"	04 = 400	S = Seal Weld	06 = A351 CF8M	08 = A216 WCB + ENP	D = RF x RTJ	G = Gear
FBV = Floating Ball Valve	15 = 1-1/2"	06 = 600	T = Top Entry	08 = A216 WCC	09 = A351 CF8M	E = RTJ x RF	H = Handwheel
FCK = Full Port Swing Check Valve	02 = 2"	08 = 800	U = Union	09 = A217 WC9	10 = CR13	F = Flat	L = Lever
GAT = Wedge Gate Valve	21 = 2-1/16"	09 = 900	W = Wafer	10 = A216 WCB	11 = CR13 HF	H = Hub	0 = Oil/Gas Actuator
GLB = Globe Valve	25 = 2-1/2"	11= 1000		11 = A352 LCB	12 = CR13 HF + HF	J = RTJ	S = Spring Return Actuator
PCK = Piston Check Valve	27 = 2-9/16"	15 = 1500		12 = A350 LF2	13 = A105 + ENP	K = WE x RF	Y = Hydraulic Actuator
PLG = Lubricated Plug Valve	03 = 3"	20 = 2000		13 = A105	15 = A350 LF2 + ENP	L = WE x RTJ	
RSB = Rising Stem Ball Valve	31 = 3-1/8"	25 = 2500		14 = A352 LC3	16 = A216 WCC + 316	N = TH x SW	
SCK = Conv. Port Swing Check Valve	37 = 3-9/16"	30 = 3000		15 = A217 C5	17 = 17-4 PH	M = SW x TH	
TCG = Slab Gate Valve	04 = 4"	37 = 3705		16 = A217 WC6	18 = A350 LF3 + ENP	R = RF	
	41 = 4-1/16"	45 = 4500		17 = 17-4 PH	20 = Alloy 20	S = SW	
	05 = 5"	50 = 5000		19 = A350 LF4	21 = Alloy 20 HF	T = TH	
	51 = 5-1/8"	60 = 6000		20 = Alloy 20	22 = A182 F22	W = WE	
	06 = 6"	10 = 10000		21 = A182 F11	30 = A29 4130		
	71 = 7-1/16"	05 = 15000		22 = A182 F22	31 = A182 321		
	08 = 8"	50 = 5000		23 = A350 LF3	32 = A182 316L		
	09 = 9"	60 = 6000		26 = A182 F91	33 = A182 304 HF		
	10 = 10"	10 = 10000		28 = A182 F9	34 = A182 304		
	11 = 11"	05 = 15000		29 = A217 C12	35 = A182 316 HF		
	12 = 12"	00 10000		30 = A29 4130	36 = A182 316		
	13 = 13-5/8"			31 = A182 321	37 = A182 317 HF		
	14 = 14"				38 = A182 317		
				32 = A182 321L			
	16 = 16"			33 = A182 304L	39 = A29 1040		
	17 = 16-3/4"			34 = A182 304	40 = A29 4140		
	18 = 18"			35 = A182 316L	41 = A182 F6a Class 2		
	20 = 20"			36 = A182 316	44 = A182 F44 Duplex		
	22 = 22"			37 = A182 317L	47 = A182 347		
	24 = 24"			38 = A182 317	48 = A182 347 HF		
	26 = 26"			40 = A29 4140	50 = Monel		
	30 = 30"			41 = A182 F6A Class 2	51 = A182 F51 Duplex		
	32 = 32"			44 = A182 F44 Duplex	53 = A182 F53 Duplex		
	36 = 36"			47 = A182 347	55 = A182 F55 Duplex		
	40 = 40"			48 = A182 347L	57 = A537 Class 1 + ENP		
	42 = 42"			50 = Monel	60 = A105 + HF		
	48 = 48"			51 = A182 F51 Duplex	61 = A105 + Nitride + HF		
	52 = 52"			53 = A182 F53 Duplex	62 = Inconel 625		
	56 = 56"			55 = A182 F55 Duplex	63 = A352 LCC + Tungsten Carbide		
	60 = 60"			62 = Inconel 625	64 = A352 LCC + Nickel Boron		
				83 = Hastelloy B	65 = A216 WCC + Tungsten Carbide		
				84 = Hastelloy C	66 = A216 WCC + Nickel Boron		
				87 = A487 4C	67 = A105 + Tungsten Carbide		
				88 = A890-4A	68 = A105 + Nickel Boron		
				89 = A890-5A	69 = A350 LF2 + Tungsten Carbide		
				90 = Titanium	70 = A350 LF2 + Nickel Boron		
					71 = CR13 + Tungsten Carbide		
					72 = CR13 + Nickel Boron		
					73 = A182 410 +Tungsten Carbide		
					74 = A182 410 + Nickel Boron		
					78 = Inconel 718		
					81 = A350 LF2 + Nitride + HF		
					84 = A743 CA15		
					87 = A487 4C		
					88 = A890-4A		
					88 = A890-4A 89 = A890-5A		
					UJ - MUJU-JA		
					00 – Titopium		
					90 = Titanium 92 = Inconel 925		

9	10	11	12	13	14	15
Bore Type	Seal Material	Seat Material	Seat Insert/Overlay Material	Stem Material	Packing Material	Service
F = Full Port	A = Aflas	08 = A216 WCB	B = Nickel Boron	A = A350 LF2 + ENP	B = Braided Graphoil	A = Stem Extension
R = Reduced Port	B = Buna	10 = CR13	D = Devlon	B = A105 + ENP	G = Graphite	B = By Pass
C = Conventional	E = EPDM	11 = CR13 HF	F = PTFE	C = A182 F6a Class 2	T = Teflon	C = Cryogenic
T = Regular Pattern	F = Fluorosilicone	13 = A105 + ENP	G = RTFE - Glass filled	D = 17-4 PH	V = Viton Duck	D = Double Piston Effect
U = Short Pattern	G = Graphite	14 = A105	H = Hard Face (Stellite 6)	E = 4130 + ENP		E = External Coating
V = Venturi Pattern	H = HNBR	15 = A350 LF2 + ENP	K = PCTFE	F = A182 F316		F = Dampener
	K = Kalrez	16 = A350 LF2	N = Nylon	G = A182 F51 Duplex		G = Geothermal
	L = Lip Seal	17 = 17-4 PH	P = Peek	H = A182 F56 Duplex		H = High Temperature
	N = Neoprene	20 = Alloy 20	R = RTFE - Carbon Filled	l = Inconel 625		I = Internal Coating
	P = Polyuerethane	30 = A29 4130	T = Tungsten Carbide			J = Linear Actuator (short yoke)
	R = NBR	31 = A182 321	V = Viton			L = Lock Open Device
	S = Silicone	32 = A182 316L	3 = 316			P = Pipe Pups
	T = Teflon	34 = A182 304	W = UHMWE			S = Standard Service
	U = Floursint	36 = A182 316				T = Special Thermal Relief
	V = Viton	37 = A182 317				W = Sub Sea
	3 = 304 Ring	38 = A182 317L				X = Special
	4 = 304 / Graphite	41 = A182 F6a Class 2				Y = Teflon Bolting
	5 = 316 Ring	47 = A182 347				Z = Zinc Bolting
	6 = 316 / Graphite	50 = Monel				
	7 = Soft Iron Ring	51 = F51 Duplex				
		53 = F53 Duplex				
		55 = F55 Duplex				
		62 = Inconel 625				
		78 = Inconel 718				
		84 = Hastelloy C				
		90 = Titanium				

Sample Figure Numbers & Descriptions

	Figure No. Chart Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Pressure Classes	Туре	Size	Class	Body Conf.	Body	Obturator	End	Oper	Bore Type	Seal	Seat.base	Seat/Insert	Stem	Packing	Service
	150, 300, 600	BAL	12	06	В	12	15	R	G	F	Н	15	D	A	1	S
TRUNNION	12° 600 Trunnion Ball Valve, Bolted A350 LF2 Body, LF2 + ENP Obturator, RF Ends, Gear Operated, Full Bore, HNBR AED Seals, A350 LF2 + ENP Seat Base Material, Devlon Seat Inserts, A350 LF2 + ENP Stem, Standard Service, API 30 Design and Test, NACE MR-01-75 Compliant															
BALL	900, 1500, 2500	BAL	12	15	В	12	41	J	G	F	Н	41	D	С	/	S
	12" 1500 Trunnion Ball Valve, Bolted Configuration, A350 LF2 Body, A182 F6a Class 2 Obturator, RTJ Ends, Gear Operated, Full Bore, HNBR AED Seals, A182 F6a Class 2 Seat Base Material, Devlon Seat Inserts, A182 F6a Class 2 Stern, Standard Service, API 6D Design and Test, NACE MR-01-75 Compliant															
	ALL	FBV	12	01	В	10	36	R	L	F	3	36	R	F	/	S
FLOATING BALL	12" 150 Floating Ball Valve, Bolted Configuration, A216 WCB Body, A182 F316 Obturator, RF Ends, Lever Operated, Full Bore, A182 F316 Seat Base Material, Devlon Seat Inserts, A182 F316 Stem, Standard Service, API 608 Design, API 598 Test, NACE MR-01-75 Compliant															
DUAL PLATE	ALL	DCK	12	06	W	10	09	R		C		08	H			S
WAFER CHECK	12" GOD Cub Plate Check Valve, Wafer Configuration, A216 WCB Body, A351 CF8M Obturator, RF Ends, Conventional Bore, A216 WCB Seat Base Material, Hardface Seat Overlay, Standard Service, API 594 Design, API 598 Test, NACE MR-01-75 Compliant															
	ALL	TCG	12	06	В	08	13	R	В	F	V	13	R	D	V	S
SLAB GATE	12" 600 Thru Conduit Slab Gate Valve, Bolted A216 WCC Body, A105 + ENP Obturator, RF Ends, Bare Stem, Full Bore, Viton AED Seals, A105 + ENP Seat Base Material, RTFE Seat Inserts, 17-4 PH Stem, Viton Duck Packing, Standard Service, API 6D Design and Test, NACE MR-01-75 Compliant															
EXPANDING	ALL	EPG	12	06	В	08	06	R	В	F	V	13	R	D	V	S
GATE	12" 600 Thru Conduit Expanding Gate Valve, Bolted A216 WCC Body, A216 WCC + ENP Obturator, RF Ends, Bare Stem, Full Bore, Viton AED Seals, A105 + ENP Seat Base Material, RTFE Seat Inserts, 17-4 PH Stem, Viton Duck Packing, Standard Service, API 6D Design and Test, NACE MP-01-75 Compliant															
FULL PORT	ALL	FCK	12	06	В	08	16	R		F	V	11	V			S
SWING CHECK	12" 600 Full Port Swing Check Valve, Bolted A216 WCC Body, A216 WCC + 316 Obturator, RF Ends, Full Bore, Viton AED Seals, CR13 HF Seat Base Material, Viton Seat Inserts, Standard Service, API 6D Design and Test, NACE MR-01-75 Compliant															
	150, 300, 600, 900	PCK	12	06	В	08	61	R	/	C	V	14	Н		/	S
PISTON CHECK	12" 600 Piston Check Valve, Bolted MR-01-75 Compliant	A216 WC0	C Body, A	105 + Nitri	de + HF Obturator	, RF Ends,	Coventional Bor	e, Viton /	AED Seals	, A105 Seat Basi	e Material,	Hardface Seat O	verlay, Standard Ser	vice, API 6I) Design and T	est, NACE
	1500, 2500	PCK	12	15	В	08	61	R	/	С	V	41	Н			S
	12" 1500 Piston Check Valve, Bolter Test, NACE MR-01-75 Compliant	d A216 W0	C Body,	A105 + Nit	ride + HF Obturato	or, RF Ends	s, Coventional Bo	ore, Viton	AED Seal	s, A182 F6a Clas	is 2 Seat B	ase Material, Har	dface Seat Overlay,	Standard S	Service, API 6D	Design and
LUBRICATED	ALL	PLG	12	06	В	10	84	R	L	С	V		/	/	G	S
PLUG	12" 600 Lubricated Plug Valve, Bolt	ed A216 V	/CB Body	, A743 CA1	.5 Obturator, RF Ei	nds, Lever	Operated, Cover	ntional B	ore, Viton	AED Seals, Stan	dard Servi	ce, API 6D Desigr	n and Test, NACE MR	-01-75 Cor	npliant	
	ALL	GAT	12	06	В	10	7	R	H	С	4	14	Н	С	G	S
WEDGE GATE	12" 600 Wedge Gate Valve, Bolted A Stem, Graphite Packing, Standard S							erated, (Conventio	nal Bore, 304 + (Graphite Ga	isket, A105 Seat	Base Material, Hard	face Seat (Iverlay, A182 F	6a Class 2
	ALL	GLB	12	06	В	10	60	R	Н	С	4	14	Н	С	G	S
GLOBE	12" 600 GlobeValve, Bolted A216 W Graphite Packing, Standard Service							entional	Bore, 304	l + Graphite Gasl	et, A105 S	eat Base Materia	al, Hardface Seat Ove	erlay, A182	F6a Class 2 St	iem,

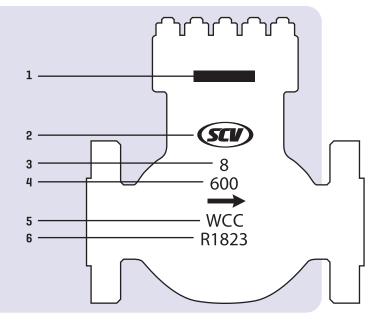
Valve ID Tag & Valve Markings Identification



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	0 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										











Piston Check Valves - API 6D Class: 150 - 2500/Sizes: 2" - 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								

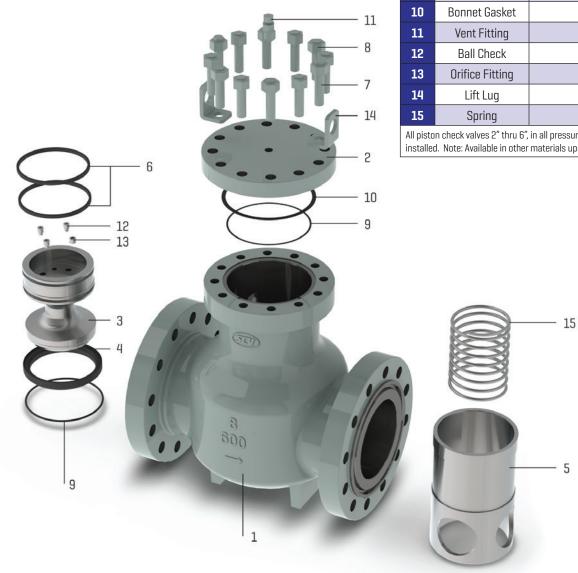


Piston Check Valve

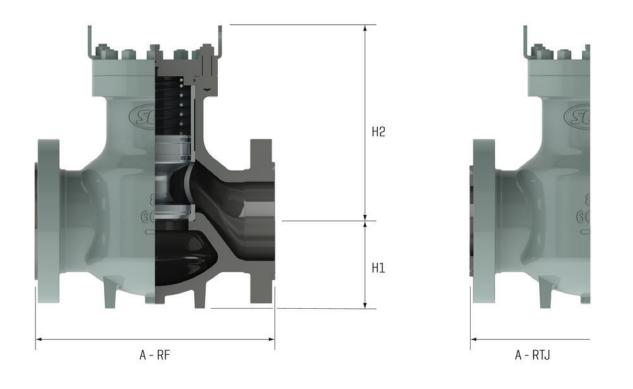
[Expanded View & Bill of Materials]

Part	WCC						
Body	A216 WCC						
Bonnet	A105						
Piston	A105+NI-TRID+ST. 6						
Seat	A105+St. 6						
Cage	A105+ENP						
Piston Ring	PEEK/Glass Filled						
Stud A193 B7M							
Heavy Hex Nut A193 2HM							
0-ring	Viton AED						
Bonnet Gasket	SS/Graphite						
Vent Fitting	316 SS						
Ball Check	316 SS						
Orifice Fitting	316 SS						
Lift Lug	Steel						
Spring	X-750						
	Body Bonnet Piston Seat Cage Piston Ring Stud Stud Heavy Hex Nut D-ring Bonnet Gasket Vent Fitting Ball Check Orifice Fitting						

All piston check valves 2" thru 6", in all pressures, comes standard with a X-750 spring installed. Note: Available in other materials upon request.



Piston Check Valve Dimensions Size: 2" - 36" Class: 150 - 2500

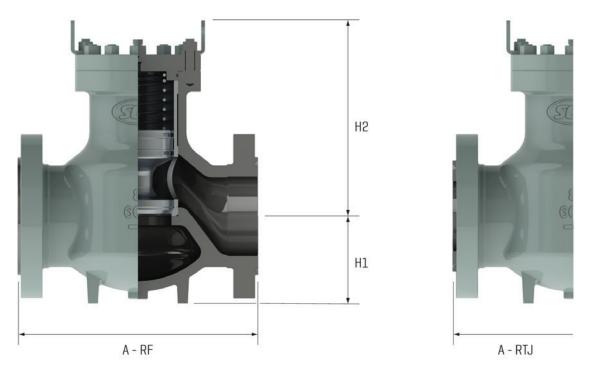


Note: Butt Weld configuration is available upon request.

	SIZE	NPS	2	3	4	6	8	10	12	14	16	18	20	24
	SIZE	DN	50	80	100	150	200	250	300	350	400	450	500	600
50	A - RF	IN	8.0	9.5	11.5	16	19.5	24.5	27.5	31	36	38.5	38.5	51
12	A - KF	ММ	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	/		/
S	пт	ММ	83	124	127	171	235	298	337	378	432	1		/
CLASS	H2	IN	7.0	8.35	10.23	14.56	17.83	22.48	25.51	27.25	30.125	/	/	/
IJ	Π <u>2</u>	ММ	178	212	260	370	451	571	648	692	765	1		/
	WGT	LB	64	124	201	332	610	1040	1328	2010	2480	/	/	1
	(RF)	KG	29	56	91	151	277	472	602	912	1125	/		/

	0175	NPS	2	3	4	6	8	10	12	14	16
	SIZE	DN	50	80	100	150	200	250	300	350	400
0	A - RF	IN	10.25	14.75	17.625	19.375	22.5	29.625	32	35.25	39.125
30	А-КГ	ММ	260	375	448	492	572	752	813	895	994
S	H1	IN	3.25	4.875	5	6.75	9.25	11.75	13.25	14.875	17
AS:	пт	ММ	83	124	127	171	235	298	337	378	432
A	110	IN	8.5	10.25	12.5	17.5	20.125	23.75	24.375	27.25	30.125
L L	H2	ММ	216	260	318	445	511	603	619	692	765
	WGT	LB	80	155	250	415	750	1300	1660	2500	3100
	(RF)	KG	36	70	114	187	341	591	755	1136	1409

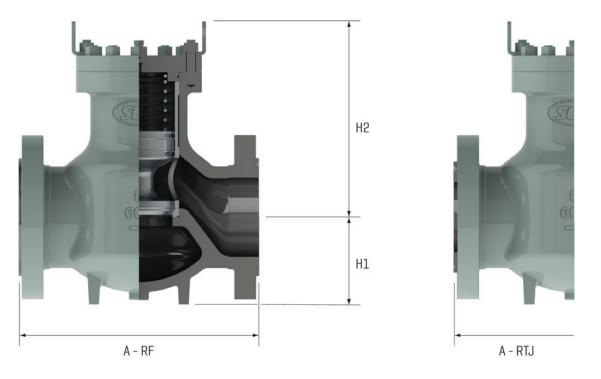
Piston Check Valve Dimensions Size: 2" - 36" Class: 150 - 2500



	SIZE	NPS	2	3	4	6	8	10	12	14	16	20	24
	312E	DN	50	80	100	150	200	250	300	350	400	500	600
	A - RF	IN	11	14.75	18.5	20.75	24	30.88	33.625	37	41.25	55.5	60
0	А-КГ	ММ	279	375	470	527	610	784	854	940	1048	1410	1524
60	A - RTJ	IN	11.375	14.875	18.625	20.875	24.125	31	33.75	37.125	41.375	55.75	60.125
	A-KIJ	ММ	283	378	461	530	613	787	857	943	1051	1413	1527
ASS	H1	IN	3.25	5.25	5.375	7	9.25	11.75	13.125	14.875	17	20.875	22.125
	пт	ММ	83	133	137	178	235	298	333	378	432	530	561
C	H2	IN	8.5	10.25	12.125	18	20.25	24.25	25.125	28.125	31.25	35.25	38.78
	ΠĽ	ММ	216	260	308	457	514	616	638	714	794	895	985
	WGT	LB	71	136	215	485	782	1291	1880	2391	3788	5871	8507
	(RF)	KG	32	62	98	220	355	586	853	1084	1718	2663	3858

	SIZE	NPS	3	4	6	8	10	12
	912E	DN	80	100	150	200	250	300
	A - RF	IN	14.875	19.375	21.875	24.875	31.375	33.875
0	А-КГ	ММ	378	492	556	632	797	860
90	A - RTJ	IN	15	19.5	22	25	31.5	33.125
	A-RIJ	ММ	381	495	559	635	800	857
ASS	H1	IN	5.25	5.375	7	9.25	11.75	13.125
	пт	ММ	133	137	178	235	298	333
0	H2	IN	10.25	12.125	18	20.25	24.25	25.125
	ΠĽ	ММ	260	308	457	514	616	638
	WGT	LB	159	285	590	948	1655	2301
	(RF)	KG	72	129	268	430	751	1044

Piston Check Valve Dimensions Size: 2" - 36" Class: 150 - 2500

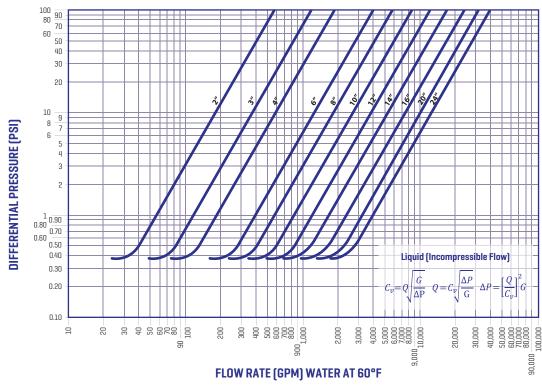


Note: Butt Weld configuration is available upon request.

	SIZE	NPS	2	3	4	6	8	10	12
	SIZE	DN	50	80	100	150	200	250	300
	A - RF	IN	13.625	17.25	20.25	24	32.375	34.375	41
0		ММ	346	438	514	610	822	873	1041
150	A - RTJ	IN	13.75	17.325	20.375	24.25	32.75	35	41.675
	A-RIJ	ММ	349	440	518	616	832	889	1059
SS	H1	IN	3.25	5.25	5.375	7	9.25	11.75	13.125
	пт	ММ	83	133	137	178	235	298	333
CL	H2	IN	8.5	10.25	12.125	18	20.25	24.25	25.125
	п <u>с</u>	ММ	216	260	308	457	514	616	638
	WGT	LB	111	207	362	803	1320	2183	2301
	(RF)	KG	50	94	164	364	599	990	1044

	SIZE	NPS	2	3	4	6	8
	SIZE	DN	50	80	100	150	200
	A - RF	IN	14.875	20.25	23.125	32	37.375
0	A - KF	ММ	378	512	587	813	949
50	A - RTJ	IN	15	20.5	23.5	32.5	38
Ñ	A-RIJ	ММ	381	521	597	826	965
ASS	H1	IN	3.25	5.25	5.375	7	9.25
A	пт	ММ	83	133	137	178	235
CI	H2	IN	8.5	10.25	12.125	18	20.25
	ΠĽ	ММ	216	260	308	457	514
	WGT	LB	151	320	513	1327	2068
	(RF)	KG	68	145	233	602	938

Liquid: Pressure Loss Curves for Piston Check Valves

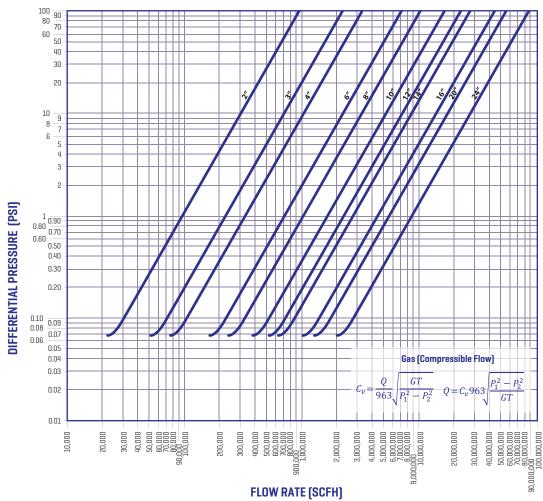


Flow Coefficient for Fully Open Valves							
2	59						
3	125						
4	193						
6	400						
8	587						
10	868						
12	1,196						
14	1,604						
16	2,193						
20	3,114						
24	4,082						

The equations listed are the basis for the above graph. The formulas can be used to find the actual flow coefficient for a given condition of flow.

	Glossary of Terms
Q	Flow Rate, Liquids - GPM
Cv	Flow Coefficient
P 1	Inlet Pressure
P2	Outlet Pressure
ΔP	Pressure Drop (P1 - P2)
G	Specific Graqvity (Water = 1)

Gas: Pressure Loss Curves for Piston Check Valves



Flow Coefficient for Fully Open Valves						
2	45					
3	99					
4	150					
6	327					
8	479					
10	757					
12	1,025					
14	1,250					
16	2,001					
20	2,689					
2/1	<u>non</u>					

The equations listed are the basis for the above graph. The formulas can be used to find the actual flow coefficient for a given condition of flow.

	Glossary of Terms						
Q	Flow Rate - (SCFH)						
Cv	Flow Coefficient						
P 1	Inlet Pressure - (psi)						
P ₂	Outlet Pressure - (psi)						
ΔΡ	Pressure Drop (P1 - P2)						
G	Specific Graqvity (Dry Air = 1)						
Т	Temperature (°F+460)						

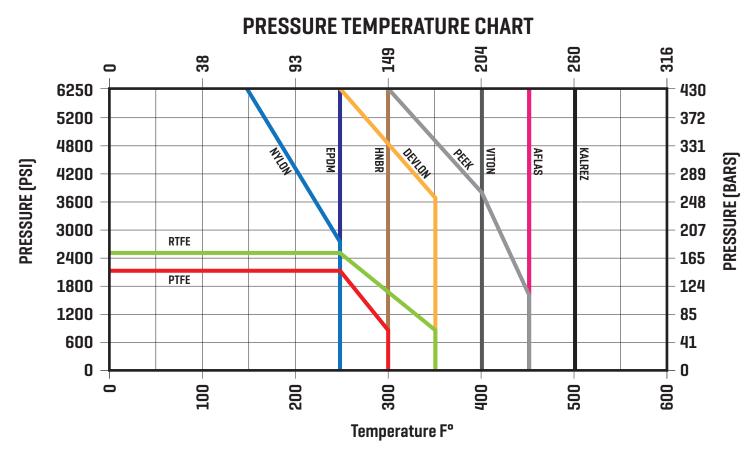
Seal & Seat Pressure Temperature Chart

This chart depicts pressure and temperature ratings for common plastics and elastomers used in SCV Valve products.

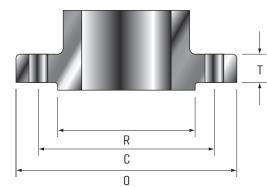
SCV VALVE SOFT GOOD CHEMICAL COMPATIBILITY

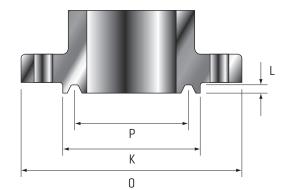
	S	EAL MATERI	AL.	SEAT MATERIAL						
	Viton	HNBR	Kalrez	RTFE	Nylon	Devlon	PEEK			
Amines	X	X	•	•	X	X	•			
Ammonia	X	Х	•	•	•	•	•			
Butane	•	•	•	•	•	•	•			
Carbon Dioxide	•	•	•	•	•	•	•			
Crude Oil	•	•	•	•	•	•	•			
Ethane	•	•	•	•	X	X	•			
Ethylene	•	•	•	•	•	•	•			
Glycol	•	•	•	•	•	X	•			
Hydrocarbon	•	•	•	•	•	•	•			
Hydrogen	•	•	•	•	•	•	•			
Jet Fuel	*	*	•	•	X	X	•			
Methane	•	•	•	•	•	•	•			
Natural Gas	•	•	•	•	•	•	•			
Nitrogen	•	•	•	•	•	•	•			
Propane	•	•	•	•	•	•	•			
Propylene	•	X	•	•	•	•	•			

* Viton OK for JP-3/4/5/6/8/9/10. * HNBR OK for JP-3/4/5/6.



Flange Dimensions - ANSI B16.5 & B16.47

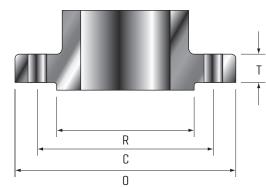


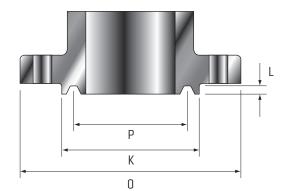




				Raised		Drilling		_			Ring Joint	t	
Class	Size	Flg. Dia.	Flg. Thick.	Face Dia.	Bolt CIrcle Dia.	# of Bolts	Hole Dia.	Face Dia.	Pitch Dia.	Grv. Depth	Grv. Width	Btm. Radius	Ring No.
		0	T	R	C	Donta	Dia.	K	Р	L	F	r	NU.
	2	6.00	0.75	3.62	4.75	4	0.75	4.00	3.250	0.250	0.344	0.03	R22
	2.5	7.00	0.88	4.12	5.50	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
150	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
	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
0	14	23.00	2.12	16.25	20.25	20	1.25	18.00	16.500	0.312	0.469	0.03	R61
300	16	25.50	2.25	18.50	22.50	20	1.38	20.00	18.500	0.312	0.469	0.03	R65
с С	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







				Raised		Drilling		U			Ring Joint	t	
Class	Size	Flg. Dia.	Flg. Thick.	Face Dia.	Bolt CIrcle Dia.	# of Bolts	Hole Dia.	Face Dia.	Pitch Dia.	Grv. Depth	Grv. Width	Btm. Radius	Ring No.
		0	Т	R	C	DUILS	Did.	K	Р	L	F	r	NU.
	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
600	10	20.00	2.50	12.75	17.00	16	1.38	14.00	12.750	0.312	0.469	0.03	R53
9	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
	22	34.25	3.75	25.25	30.62	24	1.88	27.00	25.000	0.438	0.594	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	R77
	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
906	10	21.50	2.75	12.75	18.50	16	1.50	14.25	12.750	0.312	0.469	0.03	R53
90	10	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
	24	41.00	5.50	27.25	35.50	20	2.62	30.38	27.250	0.625	1.062	0.09	R78
	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
1500	10	23.00	4.25	12.75	19.00	12	2.00	14.62	12.750	0.438	0.656	0.06	R54
N	12	26.00	4.88	15.00	22.50	16	2.12	17.25	15.000	0.562	0.906	0.00	R58
	14	29.50	5.25	16.25	25.00	16	2.38	19.25	16.500	0.625	1.062	0.00	R63
	16	32.50	5.75	18.50	27.75	16	2.62	21.50	18.500	0.688	1.188	0.03	R67
	18	36.00	6.38	21.00	30.50	16	2.88	24.12	21.000	0.688	1.188	0.03	R71
	20	38.75	7.00	23.00	32.75	16	3.12	26.50	23.000	0.688	1.312	0.09	R75
	20	46.00	8.00	27.25	39.00	16	3.62	31.25	27.250	0.812	1.438	0.09	R79
	24	9.25	2.00	3.62	6.75	8	1.00	4.48	4.000	0.812	0.469	0.030	R26
	2.5	10.50	2.00	4.12	7.75	8	1.13	5.86	4.000	0.375	0.469	0.060	R28
	2.5	12.00	2.62	5.00	9.00	8	1.15	6.61	5.000	0.375	0.531	0.060	R32
0	4	14.00	3.00	6.19	10.75	8	1.25	7.99	6.188	0.375	0.656	0.060	R32 R38
2500	5	14.00	3.62	7.31	12.75	8	1.50	9.48	7.500	0.438	0.838	0.060	R30 R40
<u>л</u>	6	19.00	4.25	8.50	14.50	8	2.00	10.98	9.000	0.500	0.781	0.060	R40
		21.75	i	10.62	1	12	2.00	1		0.500	0.906	1	R51
	8 10	26.50	5.00 6.50	10.62	17.25 21.75	12	2.00	13.38 16.73	11.000 13.500	0.688	1.188	0.060	R51 R55
	10	30.00	7.25	15.00	24.38	12	2.50	19.48	16.000	0.688	1.188	0.090	R60
	10	00.00	7.CJ	13.00	L-1.30	<u> </u>		10.40	10.000	0.000	T'NTC	0.030	NUU

Butt-welding Dimensions - ANSI B16.25

Nominal Pipe Size	Schedule Number or Wall	Outside Diameter (Cast Steel Valves) A		Nom Inside D E	iameter	Mact Inside D (iameter	Nom Wall Thi t	ckness
		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
_	160			4.313	109.55	4.428	112.47	0.625	15.88
5	XXS	5-11/16	144.46	4.063	103.20	4.209	106.91	0.750	19.05
	120			5.501	139.72	5.600	142.24	0.562	14.27
6	160	6-25/32	172.34	5.189	131.80	5.327	135.31	0.719	18.26
	XXS	0 20/02	2, 210 1	4.897	124.38	5.072	128.83	0.864	21.95
	100			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
8	140	8-23/32	223.04	7.001	177.83	7.163	181.94	0.812	20.62
	XXS	0 20/02		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
	50			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
10	100	10-15/16	277.81	9.064	230.38	9.432	234.54	0.844	21.44
10	140	T0-T9\T0	277.81	8.750	230.23	8.959	234.54	1.000	21.44
	140			8.750	215.90	8.959	227.56	1.125	25.40
	60			8.500	215.90	8.740	222.00	0.562	28.58
12	80		329.41	11.376	288.95	11.507	292.28	0.688	17.48
	100	12-31/32		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			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	14-1/4	361.95	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
	60	- - - 16-1/4		14.688	373.08	14.811	376.20	0.656	16.66
	80		412.75	14.314	363.58	14.484	367.89	0.844	21.44
16	100			13.938	354.03	14.155	359.54	1.031	26.19
10	120	10 1/1		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
	40			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
18	100	18-9/32	464.34	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
	40			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
20	100	20-5/16	515.94	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
	30			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
2/1	80	0/1 0/0	£10.19	21.564	547.73	21.827	554.41	1.219	30.96
24	100	24-3/8	619.13	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

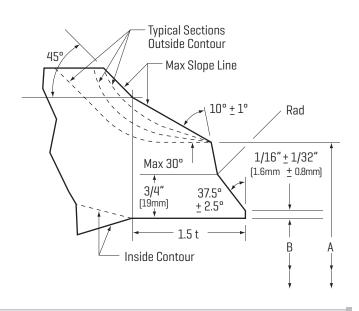
Plain Bevel Butt-welding End for Pipe Wall Thickness is 7/8" (22.23mm) or less.

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

Typical Sections Outside Contour 45° Max Slope Line 37.5° $\pm 2.5^{\circ}$ $1/16'' \pm 1/32''$ $(1.6mm \pm 0.8mm)$ \downarrow Inside Contour

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.

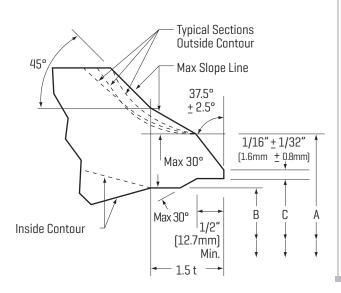


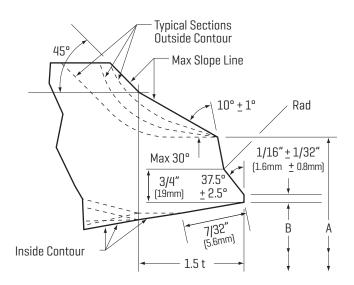
Plain Bevel Butt-welding End for Pipe Wall Thickness is 7/8" (22.23mm) or less.

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.





PISTON CHECK VALVES

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RAPID CLOSING, BACKFLOW PREVENTION

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



Standard Features

- Sizes: 2" thru 24"
- Class: 150 2500
- Basic Design: API 6D
- 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 & Testing: API 6D

SCV VALVE

Call **(281) 482-4728** today for fast delivery!

SCV Product Line

- Lubricated Plugs
- Full Port Swing Checks
- Piston Checks
- Globes
 - Trunnion Mounted Balls
- Floating Balls
- Thru Conduit GatesWedge Gates



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 Sante 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 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 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.
- Time of cancellation: After start of engineering but prior to release to production.
- Time of cancellation: After release to production but prior to completion of fabrication.
- Time of cancellation: After completion of fabrication.

Cancellation Charge: 10% Cancellation Charge: 30% Cancellation Charge: 80% 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 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, globes, full port swing checks, piston checks, dual plate 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, Maria

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.scvvalve.com.

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