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# CATÁLOGO DE PRODUCTOS 2021

LÍDER MUNDIAL EN VÁLVULAS ESPECIALIZADAS DE USO INDUSTRIAL



**SCV VALVE**  
Innovative Valve Solutions®



[281] 482-4728 • [www.scvvalve.com](http://www.scvvalve.com)

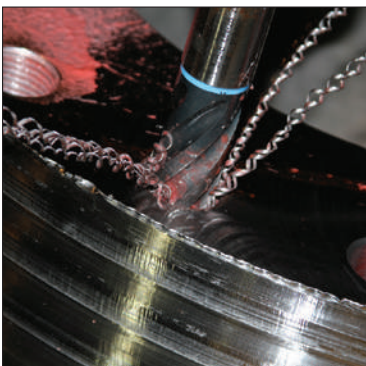


## Thru Conduit Slab & Expanding Gate Valves - API 6A & API 6D

Class: 150 - 1500  
Sizes: 2" - 42"







**SCV 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 design minimizes pressure drop and turbulence. The SCV design offers many features and options beneficial for oil, gas, and liquid applications making it the most demanded Thru Conduit Gate on the market.

**Innovative Valve Solutions.®**

# SCV Thru Conduit Slab & Expanding Gate Valves

[ Product Preview ]

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

## SCV Thru Conduit Slab & Expanding Gate Valves

- Basic Design: API 6D
- Face-to-Face Dimension: ANSI B16.10
- Flange End Dimension: ANSI/ASME B16.5 [2" to 24"], ANSI/ASME B16.47 & MSS SP-44 [26" & up]
- Butt-Weld End Dimension: ANSI/ASME B16.25
- Inspection & Testing: API 6D
- Fire Safe Design: API 6FA

## SCV Thru Conduit Slab Gate (Bi-Directional)

- Pressure assisted seats for high pressure sealing
- Spring loaded seat for low pressure sealing
- Double block and bleed capabilities
- Internal pressure relieving through self relieving seats
- Secondary sealant injection at seats and stems
- Full port thru conduit for passage of pigs

## SCV Thru Conduit Expanding Gate (Bi-Directional) with Preferred Pressure Side

- Expanding mechanical gate forms positive tight sealing
- Seals at low and high pressure
- Double block and bleed capabilities
- Secondary sealant injections at seats and stems
- Optional by-pass system for thermal cavity relief venting
- Full port thru conduit for passage of pigs

**Note:** Not recommended for throttling applications.

**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.





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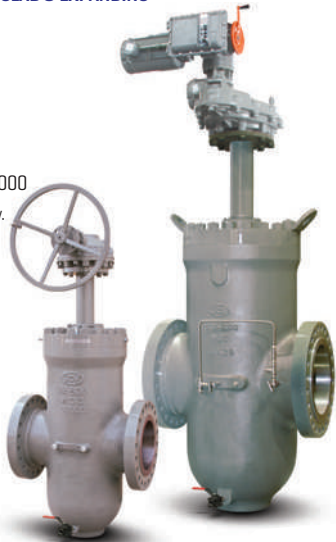
# Complete Product Line

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

## THRU CONDUIT GATES - SLAB & EXPANDING

**Design: API 6D**  
 Sizes: 2" - 42"  
 Class: 150 - 1500  
 Standard stock.

**Design: API 6A**  
 Sizes: 9", 11" & 13-5/8"  
 Pressure: 2000, 3000, 5000  
 Limited inventory availability.  
 All sizes and pressure classes made to order.



## PISTON CHECKS

**Design: API 6D**  
 Sizes: 2" - 24"  
 Class: 150 - 2500  
 Standard stock.



## GLOBES

**Design: API 623**  
 Sizes: 2" - 24"  
 Class: 150 - 2500  
 Limited inventory availability.  
 All sizes and pressure classes made to order.



## 3-PIECE TRUNNION BALLS

**Design: API 6D**  
 Sizes: 2" - 42"  
 Class: 150 - 2500  
 Standard stock.

Bore Coating: Scotchkote™ 134

**Design: API 6A**  
 Sizes: 2-1/16" - 7-1/6"  
 Pressure: 2000, 3000, 5000  
 Limited inventory availability.  
 All sizes and pressure classes made to order.



## FULL PORT SWING CHECKS

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



Exterior Coating: Epoxy

## WEDGE GATES

**Design: API 600**  
 Sizes: 2" - 48"  
 Class: 150 - 2500  
 Limited inventory availability. All sizes and pressure classes made to order.



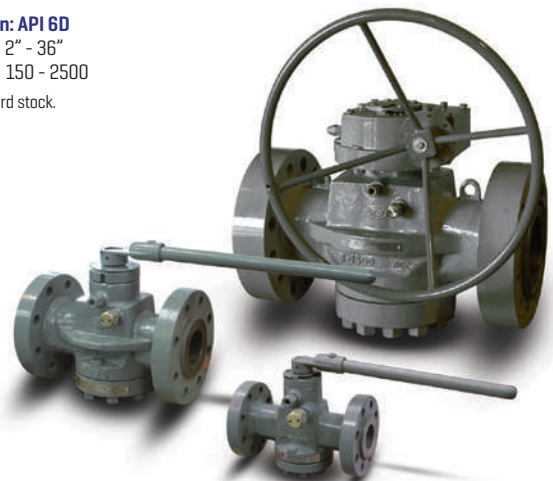
## FLOATING BALL VALVES

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



## PRESSURE BALANCED LUBRICATED PLUGS

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





# Certifications & Registrations

## American Petroleum Institute (API)

### API 6A Certification



Note: Extension letter available on our website.

### API 6D Certification



Note: Extension letter available on our website.

### ISO 9001:2015 Certificate



### CE PED Certificate



### Canadian Registration Number

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



# SCV Figure Number Chart

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

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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	O = 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"			30 = A29 4130	36 = A182 316		
	13 = 13-5/8"			31 = A182 321	37 = A182 317 HF		
	14 = 14"			32 = A182 321L	38 = A182 317		
	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		
					89 = A890-5A		
					90 = Titanium		
					92 = Inconel 925		
					99 = A105+NI+TRID-ST.6		

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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	I = Inconel 625		I = Internal Coating
	P = Polyurethane	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

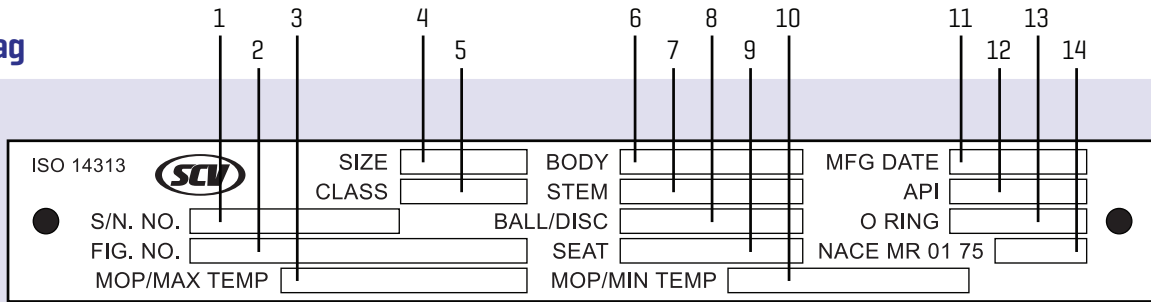
	Figure No.	Chart Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Pressure Classes	Type	Size	Class	Body Conf.	Body	Obturator	End	Oper	Bore Type	Seal	Seat,base	Seat/Insert	Stem	Packing	Service	
TRUNNION BALL	150, 300, 600	BAL	12	06	B	12	15	R	G	F	H	15	D	A	/	S	
	12" 600 Trunnion Ball Valve, Bolted A350 LF2 Body, 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 6D Design and Test, NACE MR-01-75 Compliant																
	900, 1500, 2500	BAL	12	15	B	12	41	J	G	F	H	41	D	C	/	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 Stem, Standard Service, API 6D Design and Test, NACE MR-01-75 Compliant																	
FLOATING BALL	ALL	FBV	12	01	B	10	36	R	L	F	3	36	R	F	/	S	
	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 WAFFER CHECK	ALL	DCK	12	06	W	10	09	R	/	C	/	08	H	/	/	S	
	12" 600 Dual 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																
SLAB GATE	ALL	TCG	12	06	B	08	13	R	B	F	V	13	R	D	V	S	
	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 GATE	ALL	EPG	12	06	B	08	06	R	B	F	V	13	R	D	V	S	
	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 MR-01-75 Compliant																
FULL PORT SWING CHECK	ALL	FCK	12	06	B	08	16	R	/	F	V	11	V	/	/	S	
	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																
PISTON CHECK	150, 300, 600, 900	PCK	12	06	B	08	61	R	/	C	V	14	H	/	/	S	
	12" 600 Piston Check Valve, Bolted A216 WCC Body, A105 + Nitride + HF Obturator, RF Ends, Conventional Bore, Viton AED Seals, A105 Seat Base Material, Hardface Seat Overlay, Standard Service, API 6D Design and Test, NACE MR-01-75 Compliant																
	1500, 2500	PCK	12	15	B	08	61	R	/	C	V	41	H	/	/	S	
12" 1500 Piston Check Valve, Bolted A216 WCC Body, A105 + Nitride + HF Obturator, RF Ends, Conventional Bore, Viton AED Seals, A182 F6a Class 2 Seat Base Material, Hardface Seat Overlay, Standard Service, API 6D Design and Test, NACE MR-01-75 Compliant																	
LUBRICATED PLUG	ALL	PLG	12	06	B	10	84	R	L	C	V	/	/	/	G	S	
	12" 600 Lubricated Plug Valve, Bolted A216 WCC Body, A743 CA15 Obturator, RF Ends, Lever Operated, Conventional Bore, Viton AED Seals, Standard Service, API 6D Design and Test, NACE MR-01-75 Compliant																
WEDGE GATE	ALL	GAT	12	06	B	10	7	R	H	C	4	14	H	C	G	S	
	12" 600 Wedge Gate Valve, Bolted A216 WCC Body, A216 WCC + Hardface Obturator, RF Ends, Handwheel Operated, Conventional Bore, 304 + Graphite Gasket, A105 Seat Base Material, Hardface Seat Overlay, A182 F6a Class 2 Stem, Graphite Packing, Standard Service, API 600 Design, API 598 Test, NACE MR-01-75 Compliant																
GLOBE	ALL	GLB	12	06	B	10	60	R	H	C	4	14	H	C	G	S	
	12" 600 Globe Valve, Bolted A216 WCC Body, A105 + Hardface Obturator, RF Ends, Handwheel Operated, Conventional Bore, 304 + Graphite Gasket, A105 Seat Base Material, Hardface Seat Overlay, A182 F6a Class 2 Stem, Graphite Packing, Standard Service, API 623 Design, API 598 Test, NACE MR-01-75 Compliant																

Note: Subject to change without notice.

Control #: MSF 3.5-16 rev 12

# Valve ID Tag & Valve Markings Identification

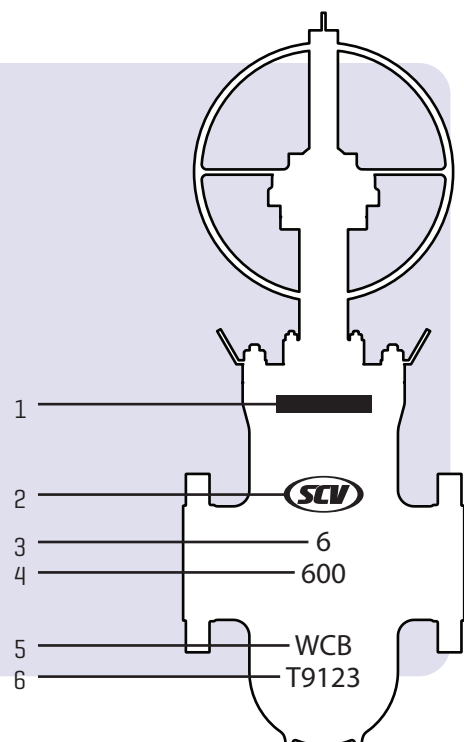
## Valve ID Tag



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

## Valve Markings

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



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





## Thru Conduit Slab & Expanding Gate Valves

Class: 150 - 1500/Sizes: 2" - 42"

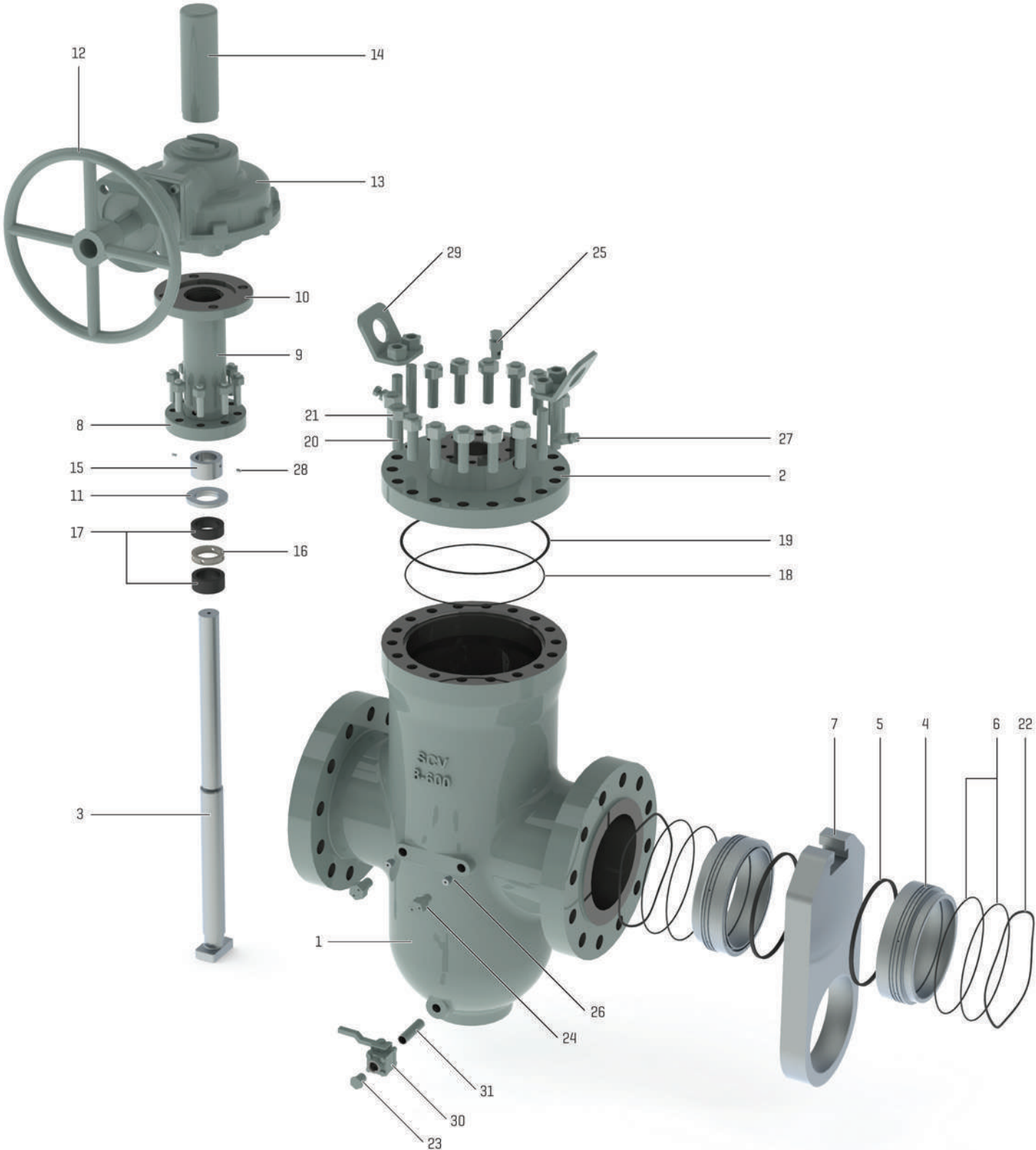


Design and Manufacturing Standards	
Basic Design	API 6D
Face-to-Face Dimension	ANSI B16.10
Flange End Dimension	ANSI/ASME B16.5 [2" to 24"] ANSI/ASME B16.47 & MSS SP-44 [26" & up]
Butt-Weld End Dimension	ANSI/ASME B16.25
Inspection & Testing	API 6D
Fire Safe Design	API 6FA



# Thru Conduit Slab Gate Valve (Bi-Directional)

[ Expanded View ]



# Thru Conduit Slab Gate Valve (Bi-Directional) ■■■■■■■■■■

[ Bill of Materials ]

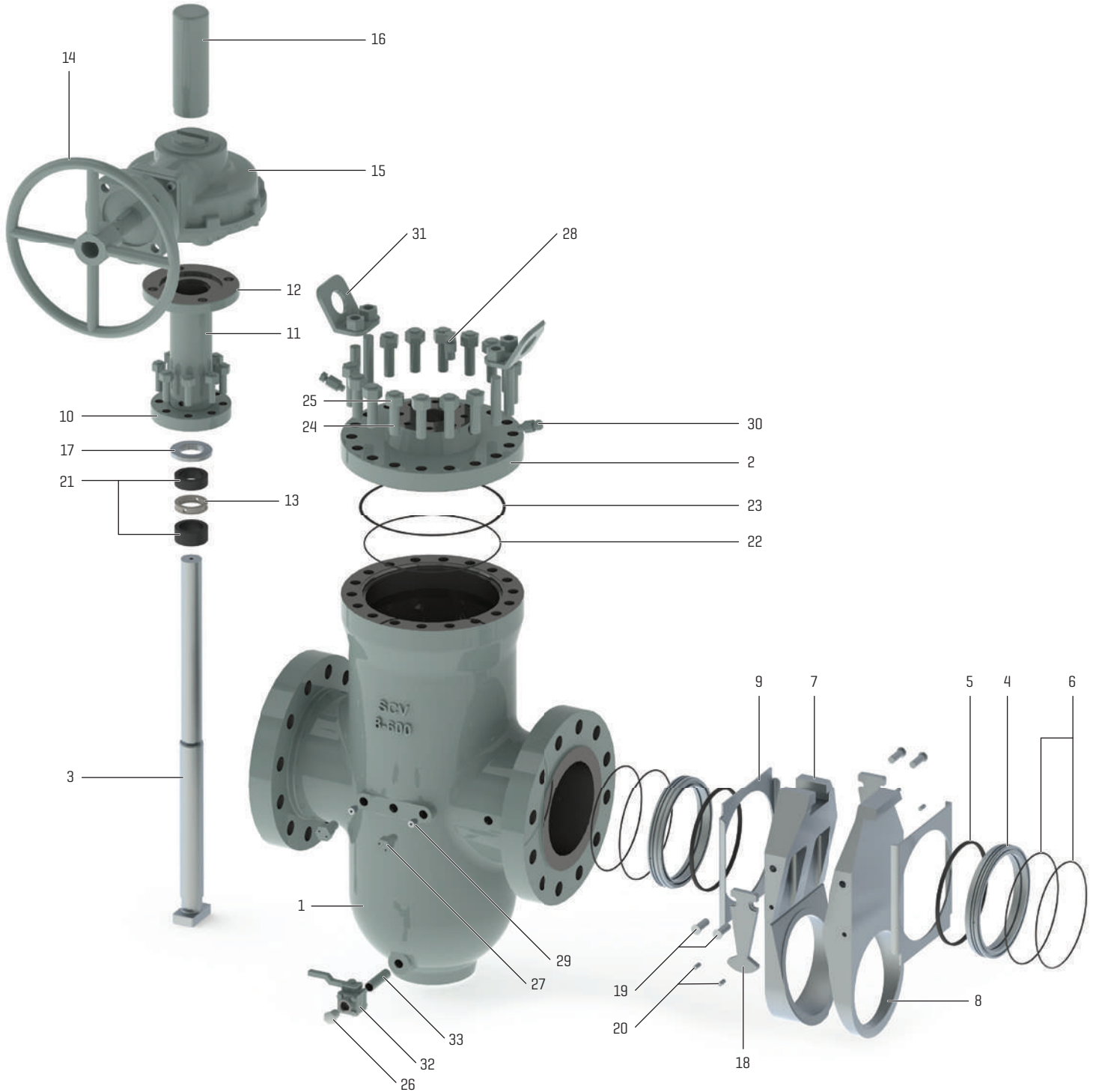
No.	Part	Material		
		Figure Number: 0813-VN	Figure Number: 0813-VR	Figure Number: 0215-HD
1	Body	ASTM A216 WCC		ASTM A352 LCC
2	Bonnet	ASTM A105		ASTM A350 LF2
3	Stem	ASTM A564 T Type 630, 17-4		
4	Seat	ASTM A105 + ENP		ASTM A350 LF2 + ENP
5	Seat Insert	Nylon	RTFE	Devlon
6	Seat O-Rings	Viton AED		HNBR
7	Gate	ASTM A105 + ENP		ASTM A350 LF2 + ENP
8	Yoke Base	ASTM A105		
9	Yoke Tube	ASTM A106 Gr. B Pipe		
10	Yoke Top	ASTM A105		
11	Lantern Ring	PEEK		
12	Handwheel	Carbon Steel		
13	Gear	Carbon Steel		
14	Stem Protector	Clear Plastic		
15	Internal Stop Nut	ASTM A105		
16	Gland	ASTM A105		
17	Packing	Viton/Duck		
18	Bonnet O-Ring	Viton AED		HNBR
19	Gasket	Stainless Steel/Graphite - GHE		
20	Stud	ASTM A193 B7M		ASTM A320 L7M
21	Heavy Hex Nut	ASTM A194 2HM		ASTM A320 L7M
22	Wavespring	17-7 Stainless Steel		
23	NPT Plug	316 Stainless Steel		
24	Grease Fitting, GBH	316 Stainless Steel		
25	Vent Fitting	316 Stainless Steel		
26	Ball Check	316 Stainless Steel		
27	Packing Injection Fitting	316 Stainless Steel		
28	Set Screw	B7M		
29	Lift Plate	A36		
30	Ball Valve	Carbon Steel		
31	Pipe Nipple	ASTM A106		

**Note:** Backup Rings (PEEK) are utilized on Class 1500 and 2500



# Thru Conduit Expanding Gate Valve [Bi-Directional] with Preferred Pressure Side

[ Expanded View ]



# Thru Conduit Expanding Gate Valve (Bi-Directional) with Preferred Pressure Side

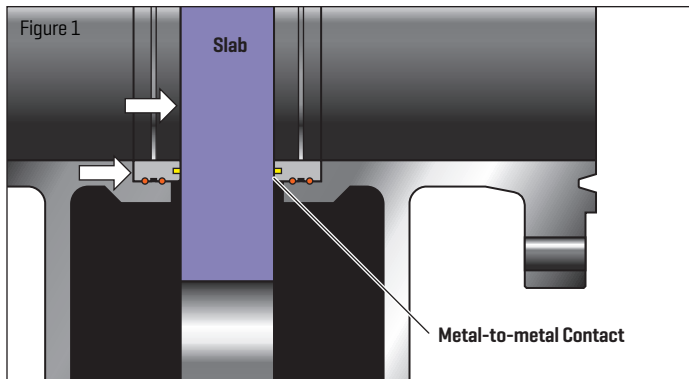
[ Bill of Materials ]

No.	Part	Material		
		Figure Number: 0813-VN	Figure Number: 0813-VR	Figure Number: 0215-HD
1	Body	ASTM A216 WCC		ASTM A352 LCC
2	Bonnet	ASTM A105		ASTM A350 LF2
3	Stem	ASTM A564 TType 630, 17-4		
4	Seat	ASTM A105 + ENP		ASTM A350 LF2 + ENP
5	Seat Insert	Nylon	RTFE	Devlon
6	Seat O-Rings	Viton AED		HNBR
7	Gate	ASTM A216 WCC + ENP		ASTM A352 LCC + ENP
8	Segment	ASTM A216 WCC + ENP		ASTM A352 LCC + ENP
9	Skirt	ASTM A573 Gr. 50		
10	Yoke Base	ASTM A105		
11	Yoke Tube	ASTM A106 Gr. B Pipe		
12	Yoke Top	ASTM A105		
13	Lantern Ring	PEEK		
14	Handwheel	Carbon Steel		
15	Gear	Carbon Steel		
16	Stem Protector	Clear Plastic		
17	Gland	ASTM A105		
18	Lever Lock Arm	ASTM A514 Gr. B		
19	Lever Arm Pins	4130 Alloy Steel		
20	Gate Pins	ASTM A105		
21	Packing	Viton/Duck		
22	Bonnet O-Ring	Viton AED		HNBR
23	Gasket	Stainless Steel/Graphite - GHE		
24	Stud	ASTM A193 B7M		ASTM A320 L7M
25	Heavy Hex Nut	ASTM A194 2HM		ASTM A320 L7M
26	NPT Plug	316 Stainless Steel		
27	Grease Fitting, GBH	316 Stainless Steel		
28	Vent Fitting	316 Stainless Steel		
29	Ball Check	316 Stainless Steel		
30	Packing Injection Fitting	316 Stainless Steel		
31	Lift Plate	A36		
32	Ball Valve	Carbon Steel		
33	Pipe Nipple	ASTM A106		

# Slab Gate Advanced Mechanical Details

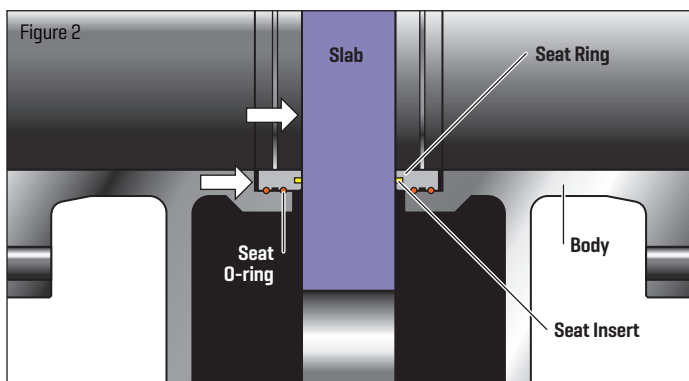
Through its simple design and efficient performance, the slab gate's two spring loaded floating seats are pressure energized. This allows for complete sealing, both upstream and downstream.

## [ Features Overview ]



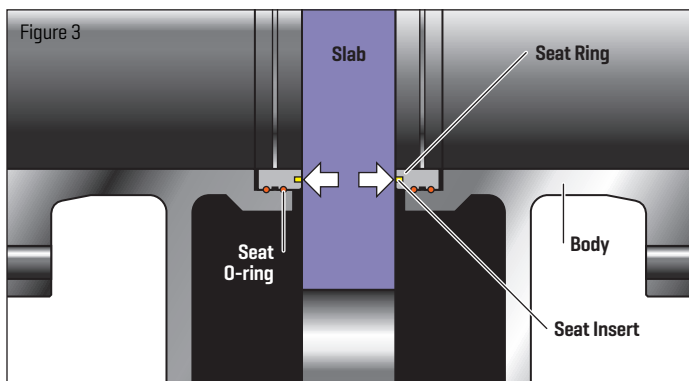
### Seats - Soft & Metal

The spring loaded double O-ring design seats maintain a perfect seal with the gate in both low and high pressure applications. The soft seat inserts help to ensure that the primary sealing occurs at the gate. In the event of soft seat damage, the seating of metal to metal will function as a secondary seal. **(Figure 1)**

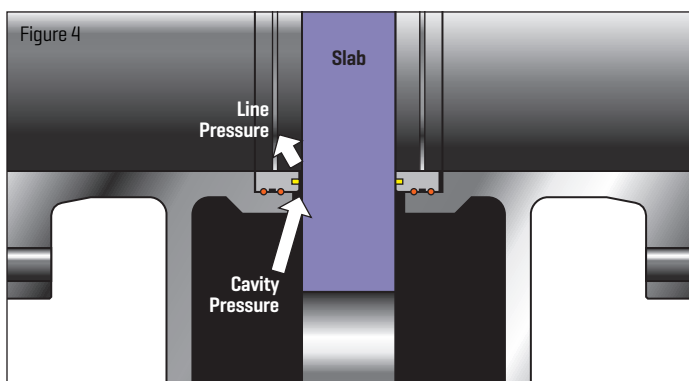


### Double Block

When the valve is in the closed position and also has equal or no pressure, both spring loaded seats can shut off line pressure independently of upstream and downstream pressure. This creates a double block scenario. **(Figure 2)**



When line pressure is applied, the pressure forces the slab gate to float against the downstream seat and form a tight seal. At the same time, the upstream line pressure forces the upstream seat on the slab gate to form an upstream seal. **(Figure 3)**

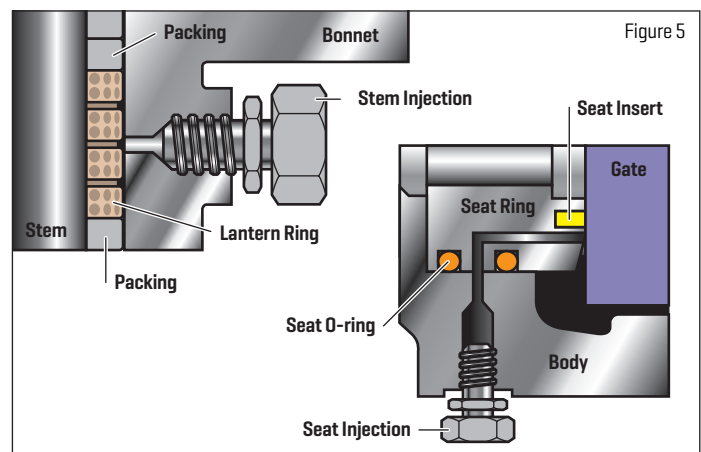


### Self Relieving Cavity

The double block and bleed slab gate design, in the closed position, may experience an increase in cavity pressure due to thermal expansion. When the cavity pressure exceeds the line pressure, the seat is forced away from the gate surface allowing the excess cavity pressure to be vented into the line. This allows for a pressure balance between the body cavity and the line. The valve body pressure will relieve to the lower differential side. **(Figure 4)**

### Secondary Sealant and Packing Injection System

All valves will have secondary sealant injection fittings for the stem and seats. If the seat inserts or O-rings become damaged, leakage from the seat can be prevented by injecting sealant into the fittings. **(Figure 5)**

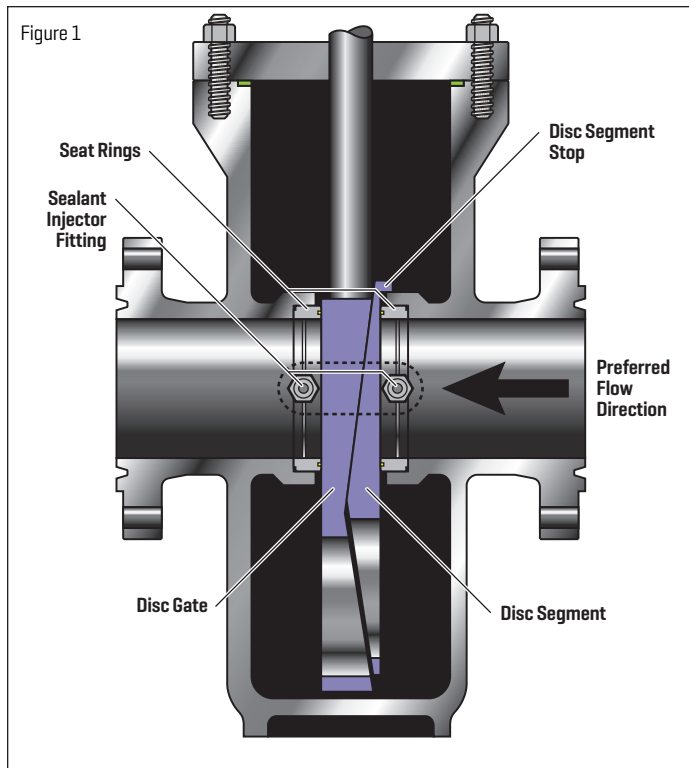




# Expanding Gate Advanced Mechanical Details

The SCV Expanding Gate valve design provides a mechanical seal between the seats and the gate in both high and low pressure applications. The expanding gate valve does not require line pressure to seal and is recommended when a tight mechanical seal is required.

## [ Features Overview ]



### Full Expanded Closed

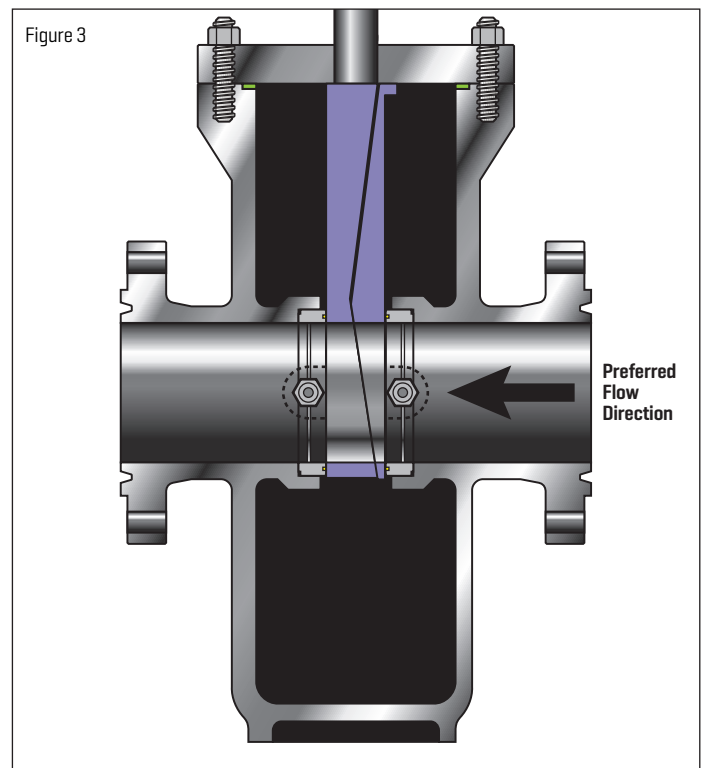
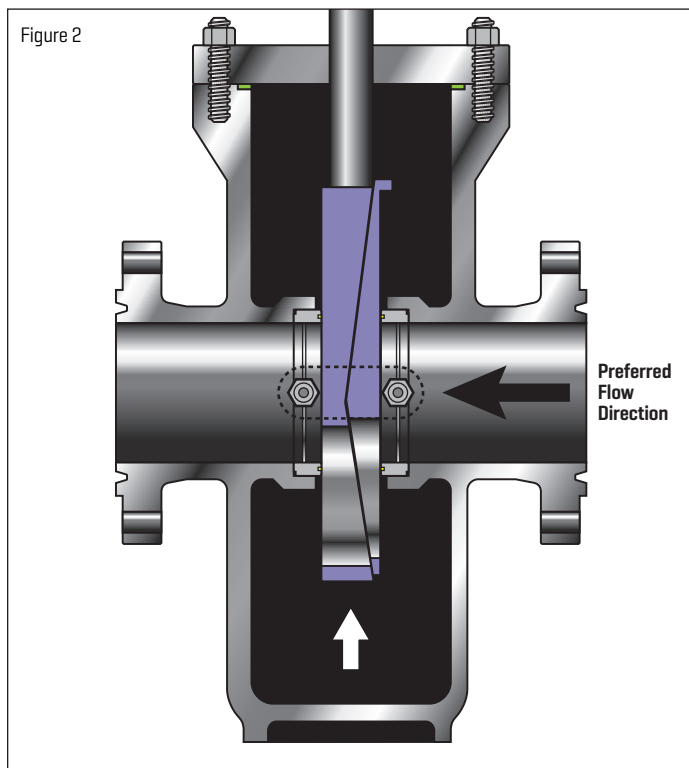
In the full expanded closed position, the segment stop has engaged with the lower body stop and the gate is wedged downward, expanding the gate and segment to form a tight seal against the upstream and downstream seats. Body cavity venting will assist to provide tight shut off. **(Figure 1)**

### Mid Position

When operating towards the open position, the gate travels across the wedge angle of the segment. This retracts the assembly so that it will slide freely between the seat faces. **(Figure 2)**

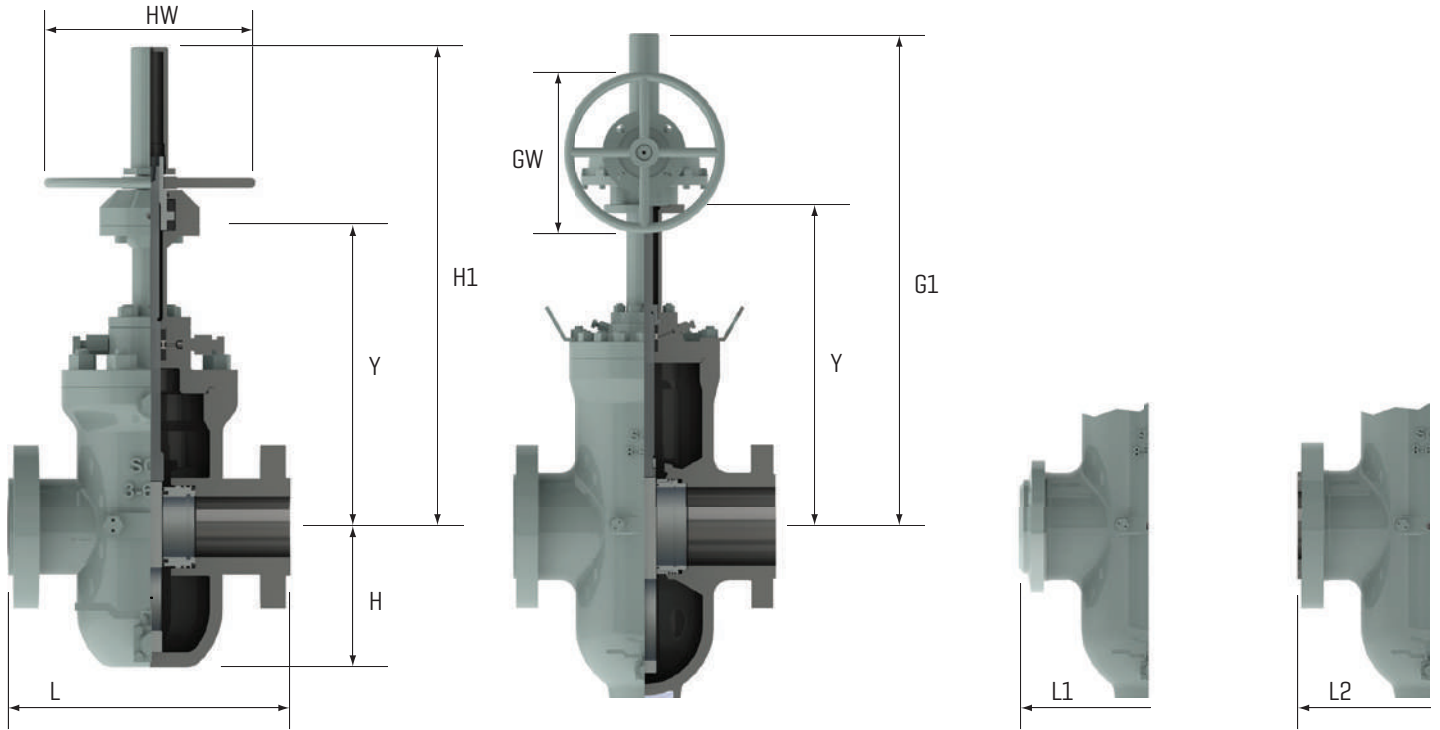
### Full Expanded Open

In the full expanded open position, the segment stop has engaged the upper body stop and the gate is wedged upward. This expands the segment and the gate into the seats, isolating the flow from the cavity. **(Figure 3)**



# Slab Gate Valve Dimensions

Size: 2" - 42"  
Class: 150



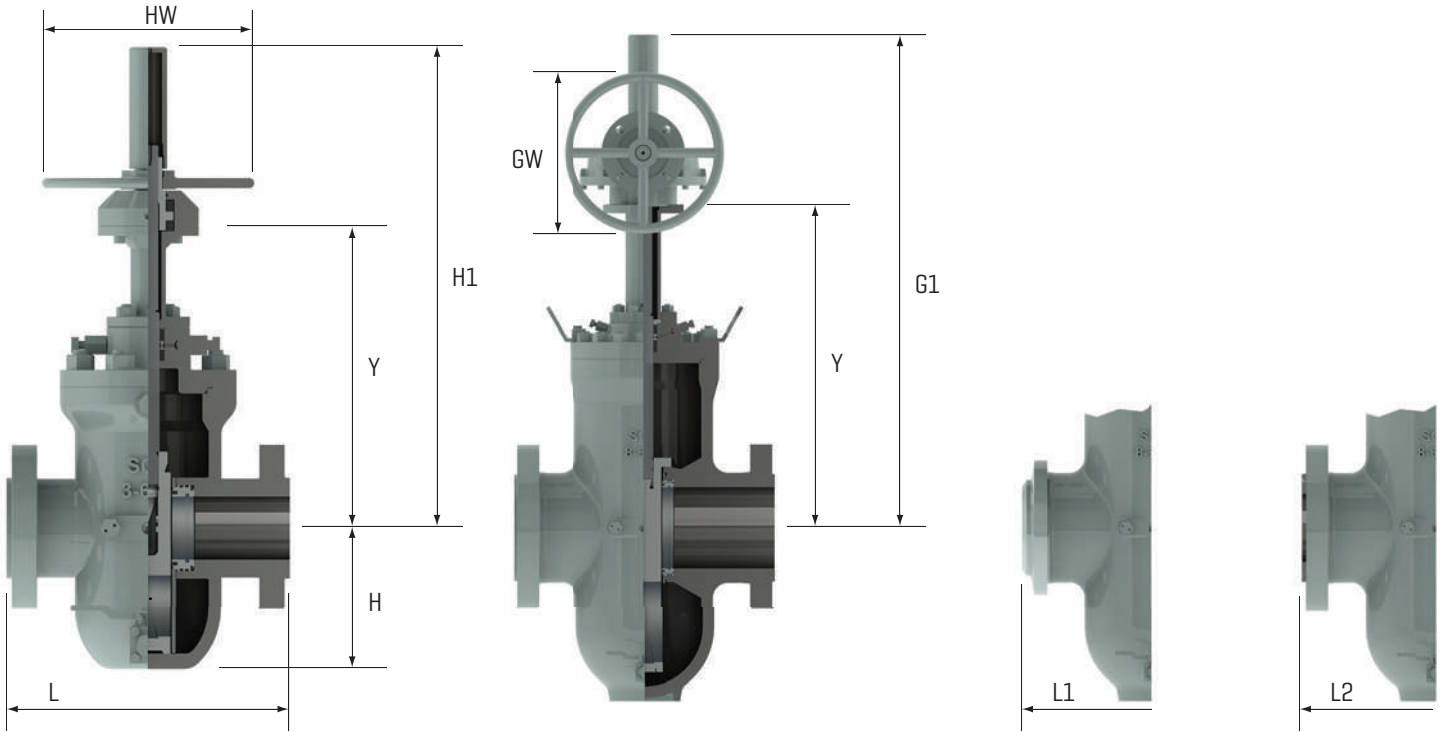
CLASS 150	SIZE		BORE	END-TO-END		CENTER-TO-BOTTOM	CENTER-TO-TOP OF YOKE	HANDWHEEL OPERATED	GEAR OPERATED		WEIGHTS	
	IN	MM	F	RF - L	BW - L1	H	Y	H1	HW	G1	GW	LBS/KG
	2	50	2.06	7.00	/	5.7	11.7	19.0	10	19.0	10	88
	3	80	3.13	8.00	/	7.3	14.5	22.9	10.0	22.9	10.0	120
	4	100	4.06	9.00	/	9.0	16.9	26.2	10.0	26.2	10.0	150
	6	150	6.06	10.50	/	11.5	21.6	33.7	12.0	33.7	12.0	202
	8	200	8.06	11.50	/	15.3	27.7	42.1	18.0	42.1	18.0	373
	10	250	10.06	13.00	/	18.1	33.1	50.7	18.0	50.7	18.0	536
	12	300	12.06	14.00	/	22.0	38.6	58.4	18.0	58.4	18.0	868
	14	350	13.25	15.00	/	23.8	41.4	62.4	18.0	62.4	18.0	1125
	16	400	15.25	16.00	/	26.5	46.7	70.5	18.0	70.5	18.0	1516
	18	450	17.25	17.00	/	29.5	51.3	78.2	18.0	78.2	18.0	1893
	20	500	19.25	18.00	/	33.2	57.2	85.1	24.0	85.1	24.0	2561
	24	600	23.25	20.00	/	39.7	68.6	101.2	24.0	101.2	24.0	4245
	28	700	27.00	24.00	/	46.0	80.5	117.4	24.0	117.4	24.0	6556
	30	750	29.00	26.00	/	49.3	84.0	122.5	24.0	122.5	24.0	7778
	32	800	30.75	28.00	/	52.6	88.8	129.9	24.0	129.9	24.0	9119
	36	900	34.50	32.00	/	58.0	97.2	141.0	24.0	141.0	24.0	11860
	40	1000	38.50	36.00	/	64.8	110.0	158.3	24.0	158.3	24.0	15466
	42	1050	40.25	36.00	/	67.4	114.5	169.7	24.0	169.7	24.0	17304

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. Larger sizes can be engineered if needed.

# Expanding Gate Valve Dimensions

Size: 2" - 40"

Class: 150



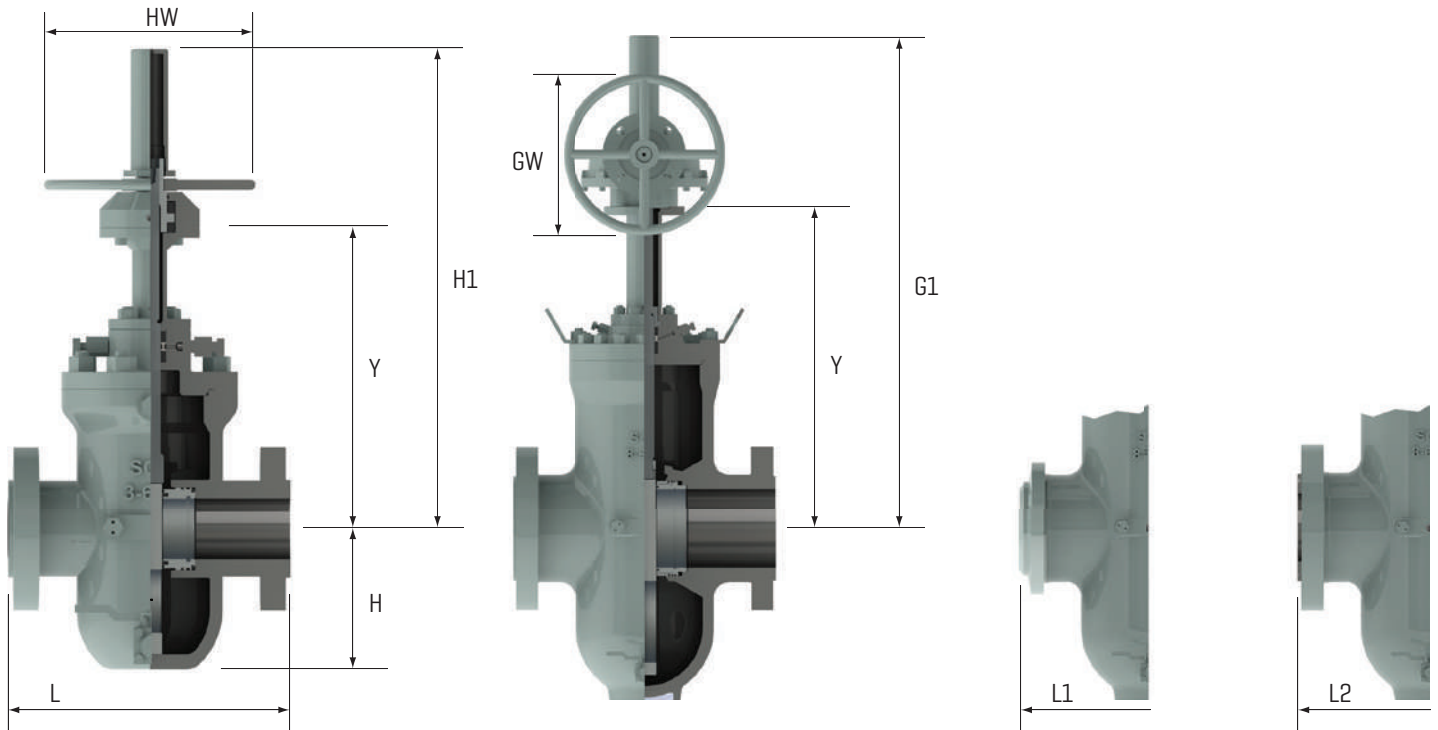
CLASS 150	SIZE		BORE	END-TO-END		CENTER-TO-BOTTOM	CENTER-TO-TOP OF YOKE	HANDWHEEL OPERATED		GEAR OPERATED		WEIGHTS LBS/KG
	IN	MM	F	RF - L	BW - L1	H	Y	H1	HW	G1	GW	
	3	80	3.13	11.13	/	7.0	14.9	23.8	10.0	23.8	10.0	155
	4	100	4.06	9.00	/	9.0	16.9	27.4	10.0	27.4	10.0	150
	6	150	6.06	10.50	/	12.1	21.7	34.0	12.0	34.0	12.0	232
	8	200	8.06	11.50	/	15.9	27.9	43.1	18.0	43.1	18.0	434
	10	250	10.06	13.00	/	19.4	33.5	51.6	18.0	51.6	18.0	713
	12	300	12.06	14.00	/	22.6	39.1	59.2	18.0	59.2	18.0	1053
	16	400	15.25	16.00	/	28.0	47.9	72.0	18.0	72.0	18.0	1922
	18	450	/	/	/	/	/	/	/	/	/	/
	20	500	19.25	18.00	/	34.5	58.0	86.1	24.0	86.1	24.0	3361
	22	550	21.25	19.00	/	38.8	/	99.3	24.0	99.3	24.0	4495
	24	600	23.25	20.00	/	40.8	70.4	103.1	24.0	103.1	24.0	5172
	30	750	29.00	26.00	/	50.4	83.9	125.4	24.0	125.4	24.0	9589
	32	800	30.75	/	/	/	/	/	/	/	/	/
	36	900	34.50	34.50	/	59.5	98.6	145.4	24.0	145.4	24.0	14060
	40	1000	38.50	36.00	/	66.5	110.7	159.0	24.0	159.0	24.0	21077
	40	1000	978	914	/	1689	2812	4039	610	4039	610	9560

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. Larger sizes can be engineered if needed.



# Slab Gate Valve Dimensions

Size: 2" - 40"  
Class: 300



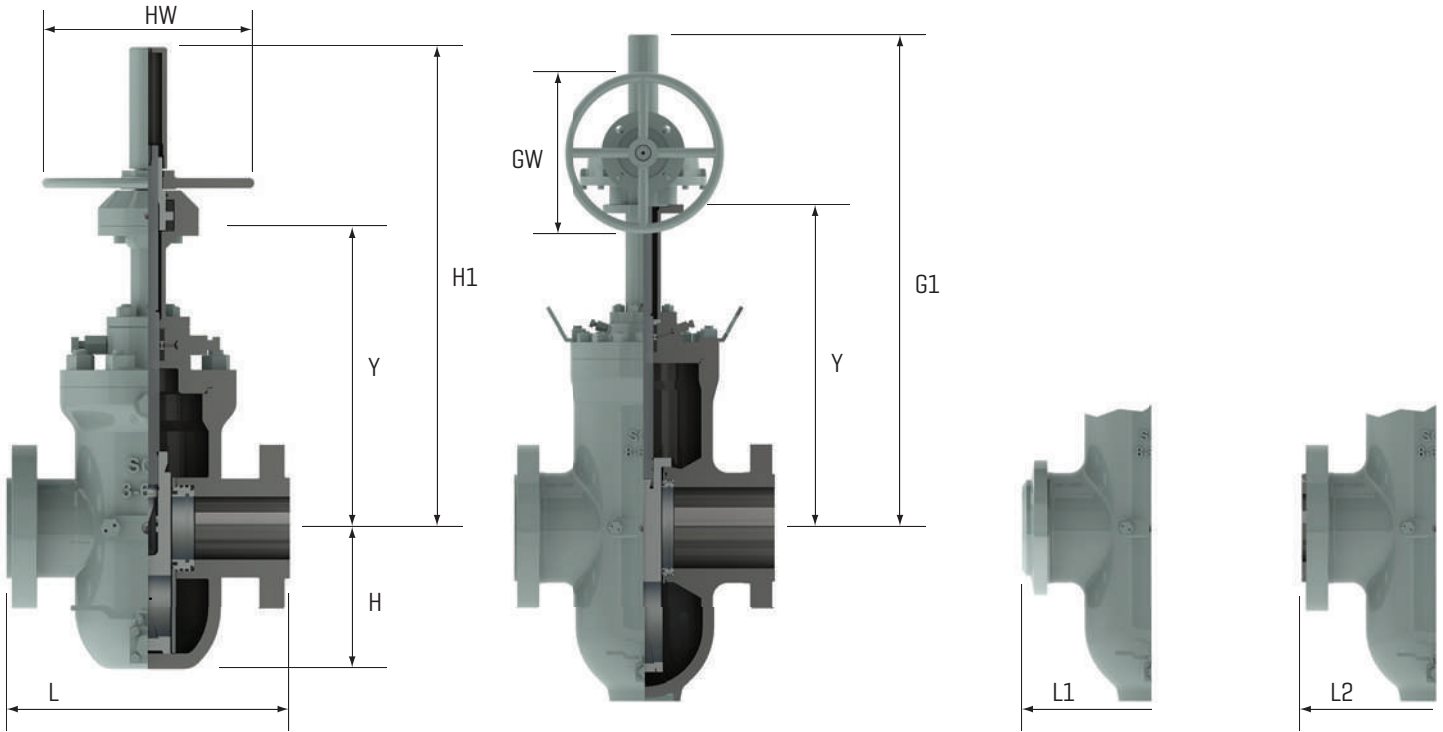
CLASS 300	SIZE		BORE	END-TO-END		CENTER-TO-BOTTOM	CENTER-TO-TOP OF YOKE	HANDWHEEL OPERATED		GEAR OPERATED		WEIGHTS
	IN	MM	F	RF - L	BW - L1	H	Y	H1	HW	G1	GW	LBS/KG
	2	50	2.06	8.50	/	5.7	11.7	19.0	10	19.0	10	124
	3	80	3.13	11.13	/	7.3	14.5	22.9	10.0	22.9	10.0	163
	4	100	4.06	12.00	/	9.0	16.9	26.2	10.0	26.2	10.0	181
	6	150	6.06	15.88	/	11.5	21.6	33.7	12.0	33.7	12.0	335
	8	200	8.06	16.50	/	15.3	27.7	42.1	18.0	42.1	18.0	609
	10	250	10.06	18.00	/	18.1	33.1	50.7	18.0	50.7	18.0	1000
	12	300	12.06	19.75	/	22.0	38.6	58.4	18.0	58.4	18.0	1402
	16	400	15.25	33.00	/	26.5	46.7	70.5	18.0	70.5	18.0	2764
	20	500	19.25	39.00	/	33.2	57.2	85.1	24.0	85.1	24.0	4429
	22	550	21.25	43.00	/	38.5	66.4	98.5	24.0	98.5	24.0	6488
	24	600	23.25	45.00	/	39.7	68.6	101.2	24.0	101.2	24.0	7039
	30	750	29.00	55.00	/	49.3	84.0	122.5	24.0	122.5	24.0	12389
	36	900	34.50	68.00	/	58.0	97.2	141.0	24.0	141.0	24.0	19722
	40	1000	38.50	84.50	/	64.8	110.0	158.3	24.0	158.3	24.0	26401

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. Larger sizes can be engineered if needed.

# Expanding Gate Valve Dimensions

Size: 2" - 42"

Class: 300

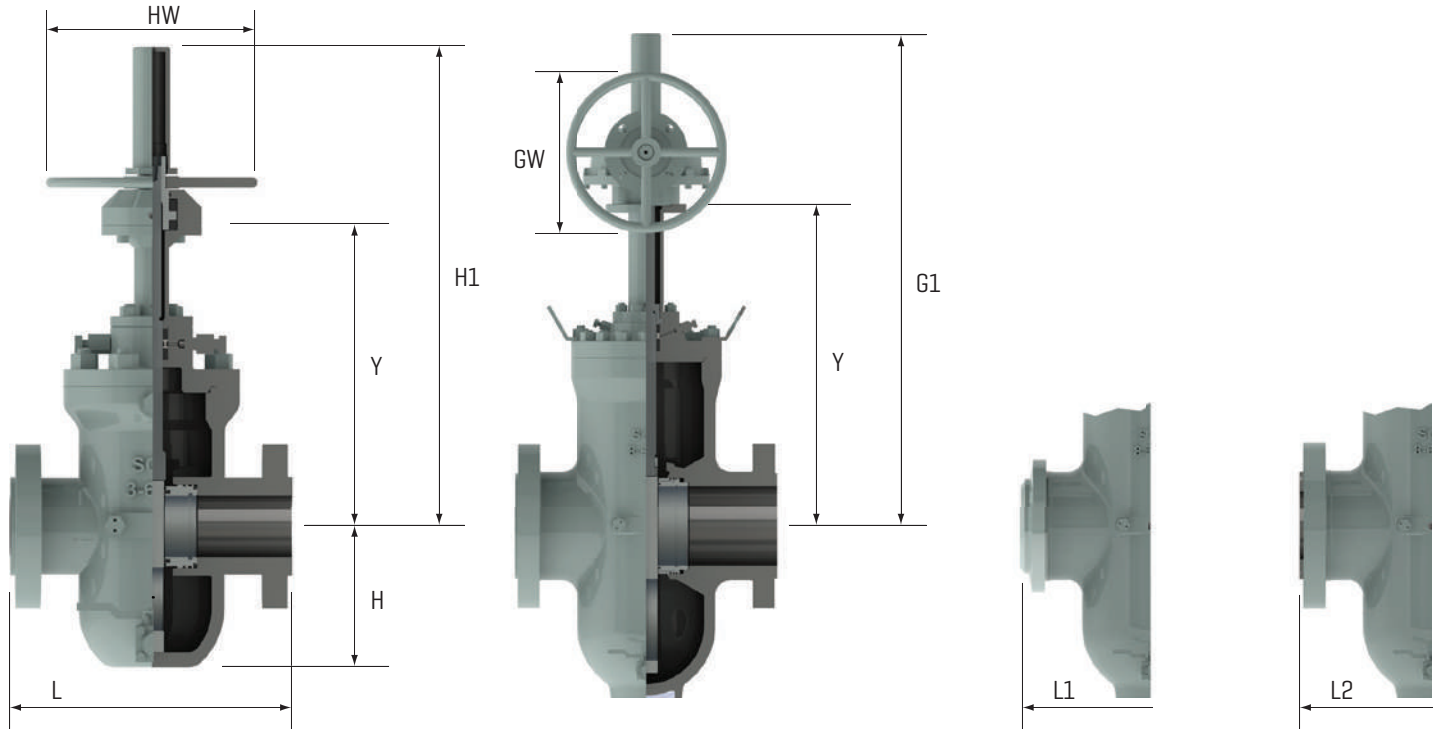


CLASS 300	SIZE		BORE	END-TO-END		CENTER-TO-BOTTOM	CENTER-TO-TOP OF YOKE	HANDWHEEL OPERATED		GEAR OPERATED		WEIGHTS
	IN	MM	F	RF - L	BW - L1	H	Y	H1	HW	G1	GW	LBS/KG
	2	50	2.06	8.50	/	5.7	11.7	19.0	10	19.0	10	93
	3	80	3.13	11.13	/	7.3	14.5	22.9	10.0	22.9	10.0	141
	4	100	4.06	12.00	/	9.0	16.9	26.2	10.0	26.2	10.0	181
	6	150	6.06	15.88	/	11.5	21.6	33.7	12.0	33.7	12.0	310
	8	200	8.06	16.50	/	15.3	27.7	42.1	18.0	42.1	18.0	540
	10	250	10.06	18.00	/	18.1	33.1	50.7	18.0	50.7	18.0	733
	12	300	12.06	19.75	/	22.0	38.6	58.4	18.0	58.4	18.0	1300
	14	350	13.25	30.00	/	23.8	41.4	62.4	18.0	62.4	18.0	1626
	16	400	15.25	33.00	/	26.5	46.7	70.5	18.0	70.5	18.0	2420
	18	450	17.25	36.00	/	29.5	51.3	78.2	18.0	78.2	18.0	3197
	20	500	19.25	39.00	/	33.2	57.2	85.1	24.0	85.1	24.0	4000
	24	600	23.25	45.00	/	39.7	68.6	101.2	24.0	101.2	24.0	6391
	30	750	29.00	55.00	/	49.3	84.0	122.5	24.0	122.5	24.0	11272
	36	900	34.50	68.00	/	58.0	97.2	141.0	24.0	141.0	24.0	17885
	40	1000	38.50	84.50	/	64.8	110.0	158.3	24.0	158.3	24.0	22237
	42	1050	40.25	72.00	/	67.4	114.5	169.7	24.0	169.7	24.0	20381
	42	1050	40.25	72.00	/	67.4	114.5	169.7	24.0	169.7	24.0	20381
	42	1050	40.25	72.00	/	67.4	114.5	169.7	24.0	169.7	24.0	20381

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. Larger sizes can be engineered if needed.

# Slab Gate Valve Dimensions

Size: 2" - 36"  
Class: 600



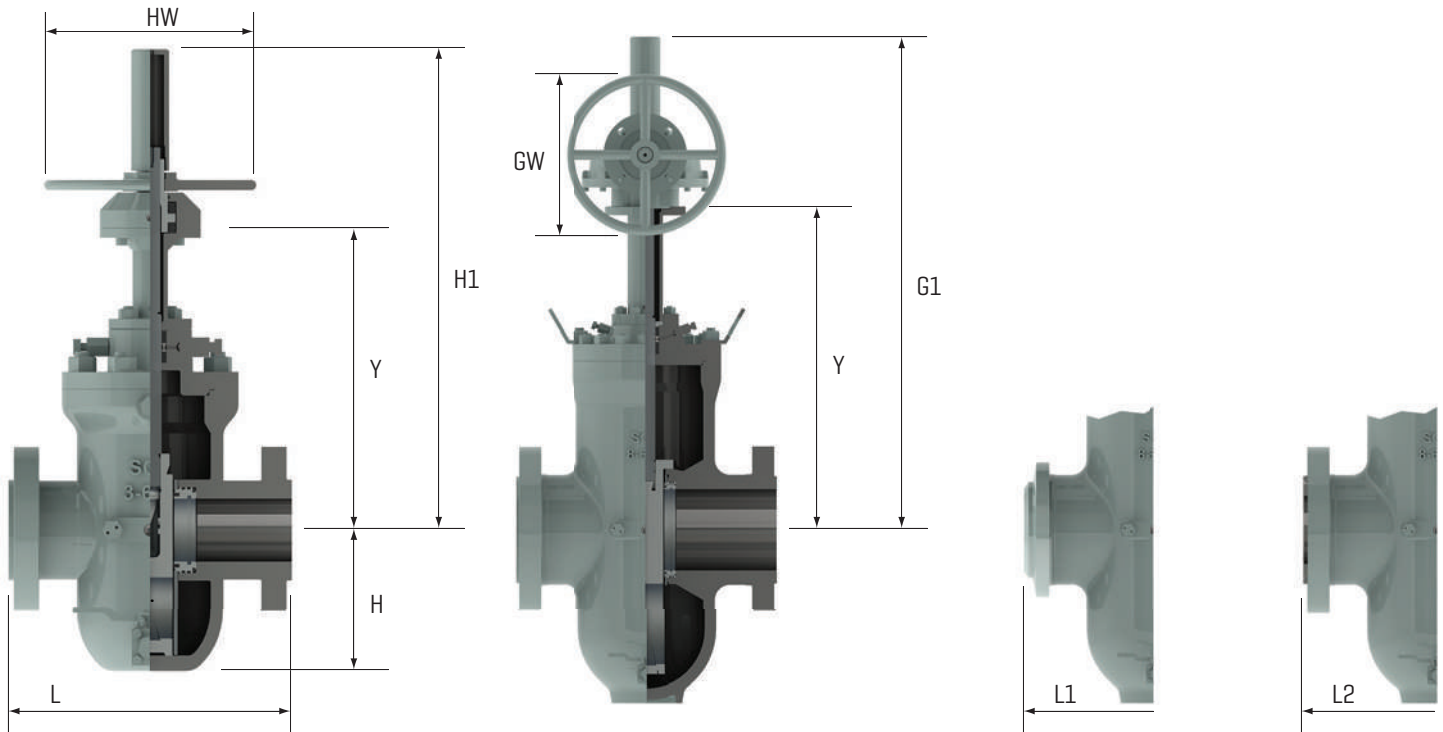
CLASS 600	SIZE		BORE	END-TO-END			CENTER-TO-BOTTOM	CENTER-TO-TOP OF YOKE	HANDWHEEL OPERATED		GEAR OPERATED		WEIGHTS
	IN	MM	F	RF - L	BW - L1	RTJ - L2	H	Y	H1	HW	G1	GW	LBS/KG
	2	50	2.06	11.50	11.50	11.88	5.4	12.1	19.0	12.0	19.0	12.0	124
	3	80	3.13	14.00	14.00	14.12	7.0	14.96	23.3	12.0	23.3	12.0	179
	4	100	4.06	17.00	17.00	17.12	10.1	20.5	31.4	12.0	31.4	12.0	350
	6	150	6.06	22.00	22.00	22.12	12.8	25.8	39.3	18.0	39.3	18.0	603
	8	200	8.06	26.00	26.00	26.12	17.1	31.9	48.5	18.0	48.5	18.0	1069
	10	250	10.06	31.00	31.00	31.12	21.3	38.0	57.6	18.0	57.6	18.0	1846
	12	300	12.06	33.00	33.00	33.12	23.5	43.9	64.9	18.0	64.9	18.0	2442
	14	350	13.25	35.00	35.00	35.12	26.8	47.4	71.4	24.0	71.4	24.0	3237
	16	400	15.25	39.00	39.00	39.12	29.5	52.8	77.6	24.0	77.6	24.0	4204
	18	450	17.25	43.00	43.00	43.12	33.3	58.2	87.8	24.0	87.8	24.0	5880
	20	500	19.19	47.00	47.00	47.25	36.8	65.7	98.3	30.0	98.3	30.0	8325
	22	550	21.25	51.00	/	/	40.8	72.4	107.3	24.0	107.3	24.0	10292
	24	600	23.25	55.00	55.00	55.38	44.5	78.3	115.3	24.0	115.3	24.0	12718
	30	750	29.00	65.00	65.00	65.38	54.0	94.4	140.1	24.0	140.1	24.0	21489
	36	900	34.50	82.00	/	/	63.5	108.6	160.7	24.0	160.7	24.0	33646

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. Larger sizes can be engineered if needed.

# Expanding Gate Valve Dimensions

Size: 2" - 36"

Class: 600



CLASS 600	SIZE		BORE	END-TO-END			CENTER-TO-BOTTOM		CENTER-TO-TOP OF YOKE		HANDWHEEL OPERATED		GEAR OPERATED		WEIGHTS
	IN	MM	F	RF - L	BW - L1	RTJ - L2	H	Y	H1	HW	G1	GW	LBS/KG		
	2	50	2.06	11.50	11.50	11.88	5.4	12.1	19.0	12.0	19.0	12.0	124		
	3	80	3.13	14.00	14.00	14.12	7.0	14.96	23.3	12.0	23.3	12.0	184		
	4	100	4.06	17.00	17.00	17.12	10.1	20.5	31.4	12.0	31.4	12.0	349		
	6	150	6.06	22.00	22.00	22.12	12.8	25.8	39.3	18.0	39.3	18.0	601		
	8	200	8.06	26.00	26.00	26.12	17.1	31.9	48.5	18.0	48.5	18.0	1075		
	10	250	10.06	31.00	31.00	31.12	21.3	38.0	57.6	18.0	57.6	18.0	1876		
	12	300	12.06	33.00	33.00	33.12	23.5	43.9	64.9	18.0	64.9	18.0	2494		
	14	350	13.25	35.00	35.00	35.12	26.8	47.4	71.4	24.0	71.4	24.0	3327		
	16	400	15.25	39.00	39.00	39.12	29.5	52.8	77.6	24.0	77.6	24.0	4367		
	18	450	17.25	43.00	43.00	43.12	33.1	58.2	87.8	24.0	87.8	24.0	6047		
	20	500	19.19	47.00	47.00	47.25	36.8	65.7	98.3	30.0	98.3	30.0	8610		
	22	550	21.25	51.00	/	/	40.8	72.4	107.3	24.0	107.3	24.0	10720		
	24	600	23.25	55.00	55.00	55.38	44.5	78.3	115.3	24.0	115.3	24.0	13315		
	26	650	25.00	57.00	**	**	48.6	78.3	115.3	24.0	115.3	24.0	16417		
	28	700	27.00	61.00	**	**	52.0	78.3	115.3	24.0	115.3	24.0	18692		
	30	750	29.00	65.00	**	**	54.0	94.4	140.1	24.0	140.1	24.0	22606		
	36	900	34.50	82.00	**	**	64.0	108.6	160.7	24.0	160.7	24.0	35984		
			876	2083	**	**	1626	2785	4082	610	4082	610	16322		

\*\* = Consult factory.

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. Larger sizes can be engineered if needed.

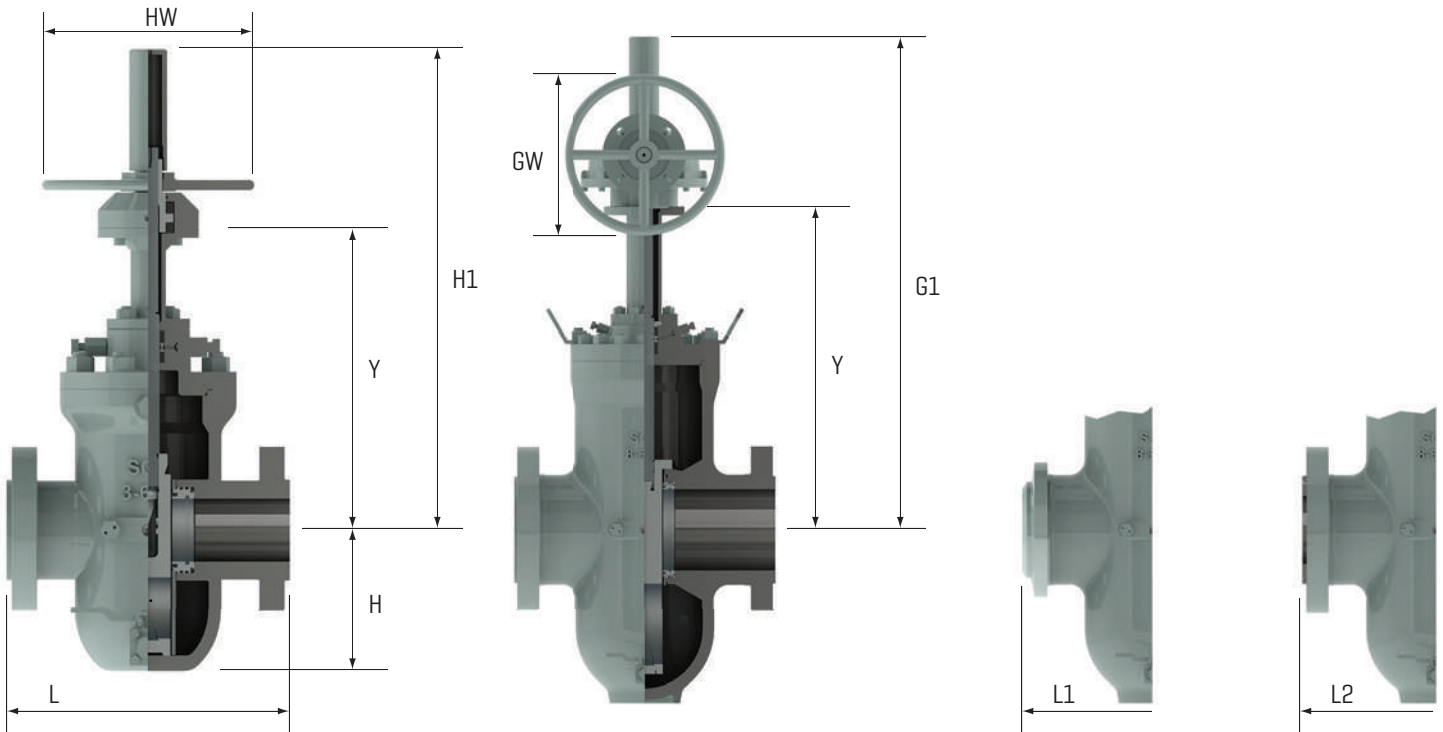




# Expanding Gate Valve Dimensions

Size: 2" - 24"

Class: 900

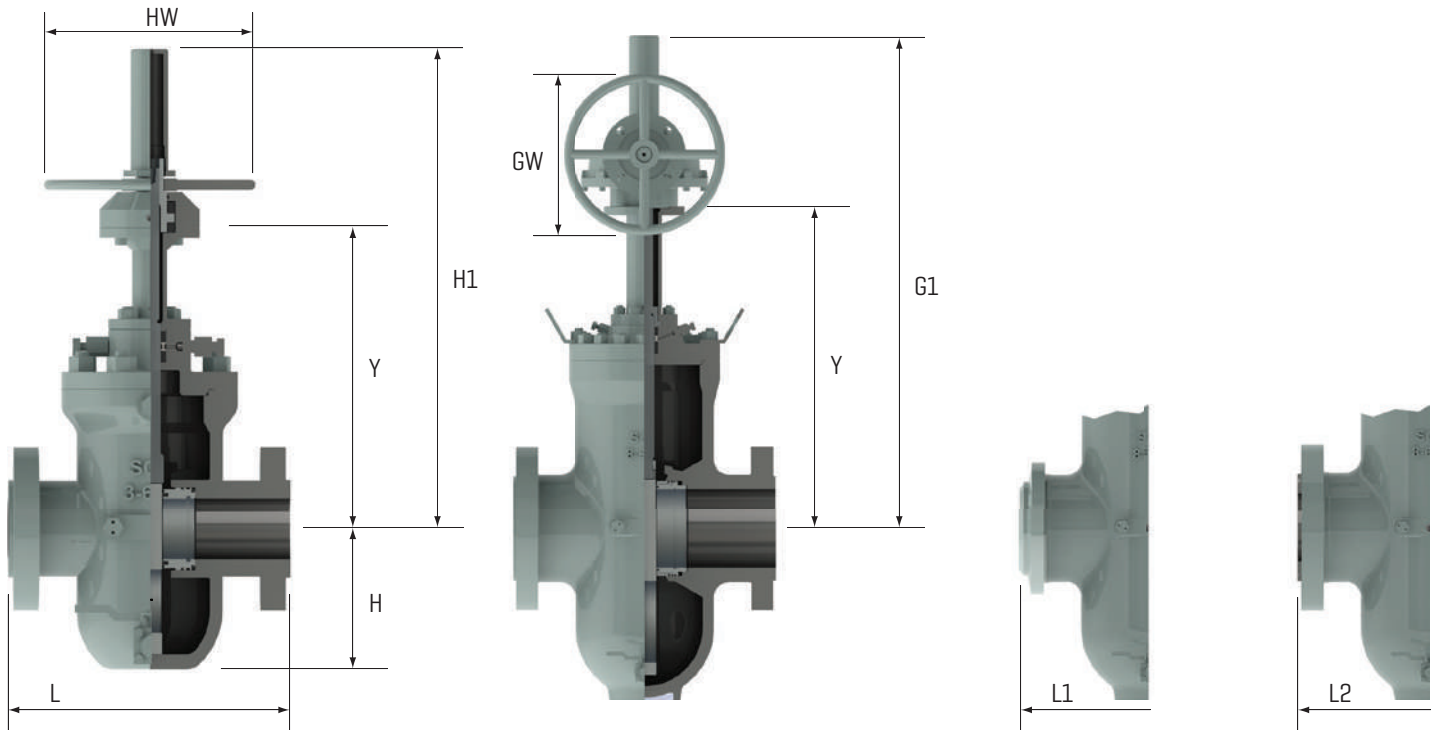


CLASS 900	SIZE		BORE	END-TO-END				CENTER-TO-BOTTOM		CENTER-TO-TOP OF YOKE		HANDWHEEL OPERATED		GEAR OPERATED		WEIGHTS LBS/KG
	IN	MM	F	RF - L	BW - L1	RTJ - L2	H	Y	H1	HW	G1	GW				
	2	50	2.06	14.50	14.50	14.62	6.0	12.2	20.2	12.0	20.2	12.0	215			
	3	80	3.13	15.00	15.00	15.12	7.0	14.9	23.8	12.0	23.8	12.0	225			
	4	100	4.06	18.00	18.00	18.12	10.3	20.5	31.2	12.0	31.2	12.0	410			
	6	150	6.06	24.00	24.00	24.12	13.1	25.8	38.8	18.0	38.8	18.0	798			
	8	200	8.06	29.00	29.00	29.12	17.5	31.9	48.3	18.0	48.3	18.0	1351			
	10	250	10.06	33.00	33.00	33.12	21.8	38.0	57.4	18.0	57.4	18.0	2402			
	12	300	12.06	38.00	38.00	38.12	24.4	43.9	65.2	24.0	65.2	24.0	3307			
	14	350	13.25	40.50	40.50	40.88	27.9	47.4	70.6	24.0	70.6	24.0	4295			
	16	400	15.25	44.50	44.50	44.88	30.0	52.8	77.6	24.0	77.6	24.0	5505			
	18	450	17.25	48.00	48.00	48.50	33.6	58.2	88.0	24.0	88.0	24.0	7582			
	20	500	19.19	52.00	52.00	52.50	37.9	66.2	97.9	30.0	97.9	30.0	11666			
	24	600	25.00	57.00	/	/	48.8	83.4	116.6	30.0	116.6	30.0	19298			

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. Larger sizes can be engineered if needed.

# Slab Gate Valve Dimensions

Size: 2" - 10"  
Class: 1500

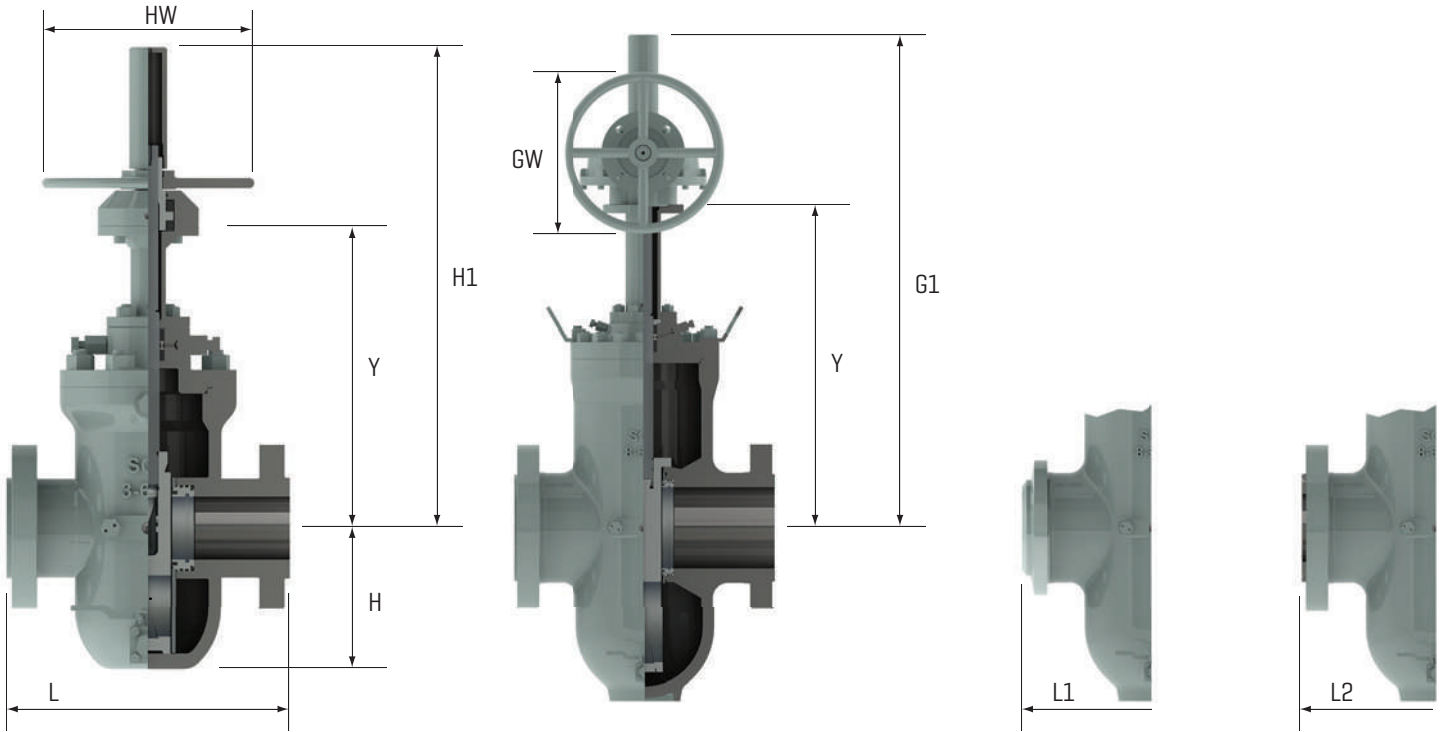


CLASS 1500	SIZE		BORE	END-TO-END			CENTER-TO-BOTTOM	CENTER-TO-TOP OF YOKE	HANDWHEEL OPERATED		GEAR OPERATED		WEIGHTS LBS/KG
	IN	MM	F	RF - L	BW - L1	RTJ - L2	H	Y	H1	HW	G1	GW	
	2	50	2.06	14.50	14.50	14.62	6.0	12.2	19.1	12.0	19.1	12.0	216
	4	100	4.06	18.00	18.00	18.12	10.3	20.5	31.4	12.0	31.4	12.0	403
	6	150	6.06	24.00	24.00	24.12	13.1	25.8	39.2	18.0	39.2	18.0	800
	8	200	8.06	29.00	29.00	29.12	17.5	31.9	48.5	18.0	48.5	18.0	1346
	10	250	10.06	33.00	33.00	33.12	21.8	38.0	57.6	18.0	57.6	18.0	2380

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. Larger sizes can be engineered if needed.

# Expanding Gate Valve Dimensions

Size: 2" - 10"  
Class: 1500



CLASS 1500	SIZE		BORE	END-TO-END			CENTER-TO-BOTTOM	CENTER-TO-TOP OF YOKE	HANDWHEEL OPERATED		GEAR OPERATED		WEIGHTS
	IN	MM	F	RF - L	BW - L1	RTJ - L2	H	Y	H1	HW	G1	GW	LBS/KG
	2	50	2.06	14.50	14.50	14.62	6.0	12.2	20.2	12.0	20.2	12.0	216
	4	100	4.06	18.00	18.00	18.12	10.3	20.5	31.4	12.0	31.4	12.0	403
	6	150	6.06	24.00	24.00	24.12	13.1	25.8	39.2	18.0	39.2	18.0	800
	8	200	8.06	29.00	29.00	29.12	17.5	31.9	46.6	24.0	46.6	24.0	2242
	10	250	10.06	/	/	39.38	22.6	38.0	58.5	24.0	58.5	24.0	4086
	10	250	256	/	/	1000	574	965	1486	610	1486	610	1853

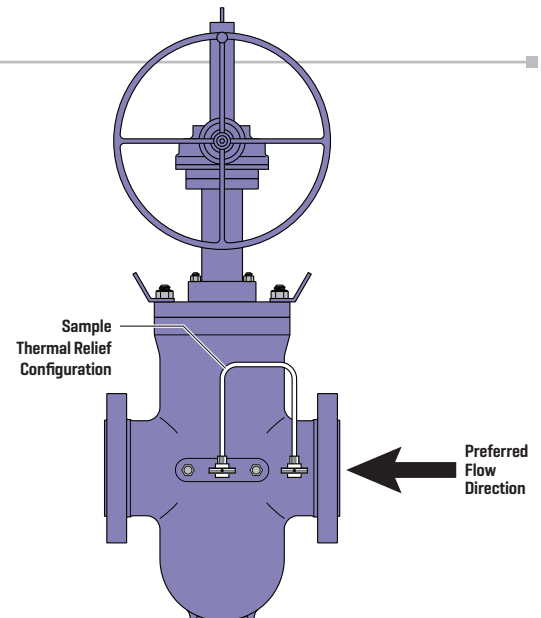
Note: SCV reserves the right to change any technical design and dimensional data without prior notice. Please contact SCV to confirm all Dimensions and Data offered in this catalog. Larger sizes can be engineered if needed.

## Expanding Gate Thermal Relief System

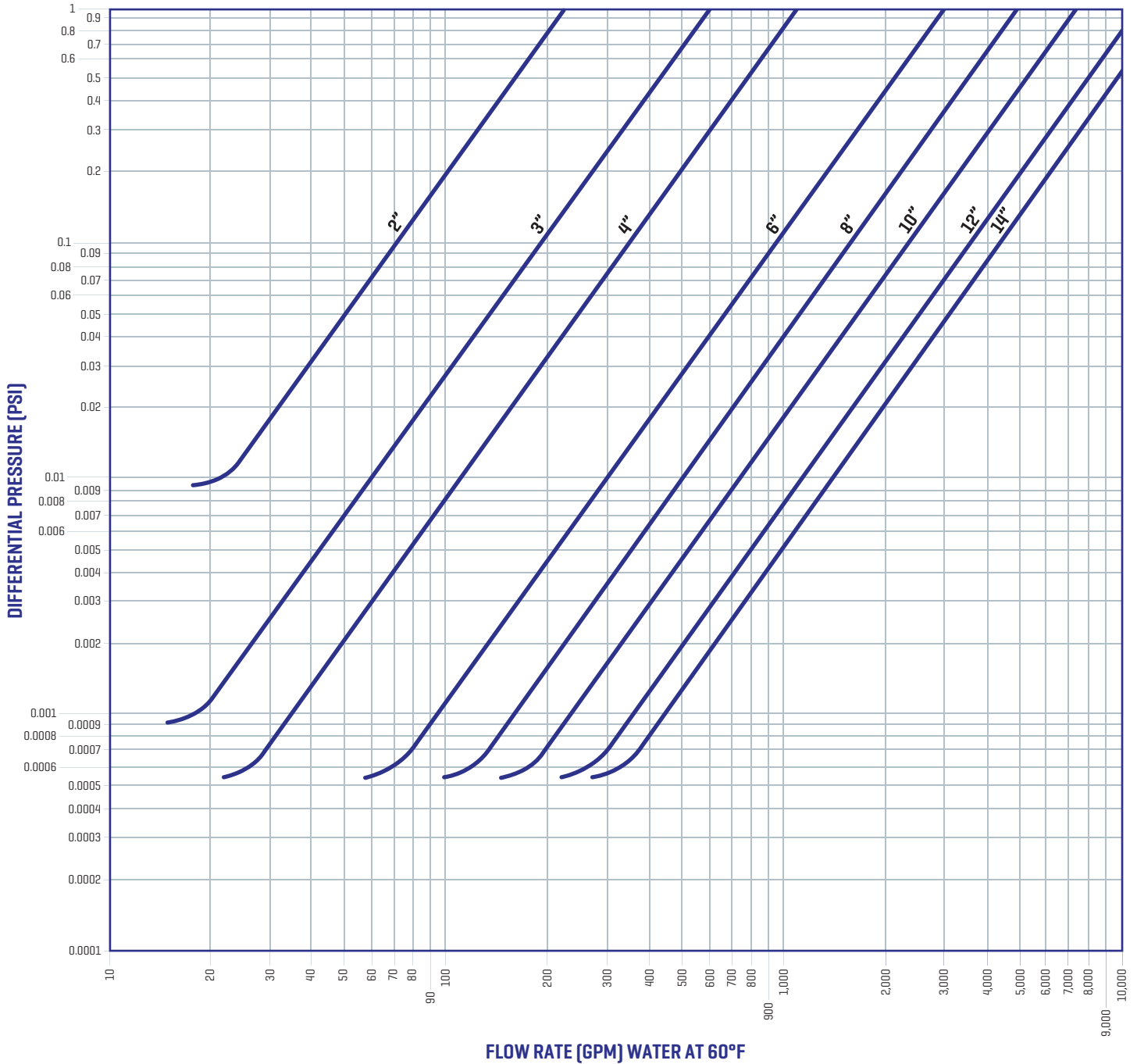
With the expanding gate design, it is possible for Thermal Expansion to occur within the body cavity while the valve is in the closed position. A Thermal Relief system allows the body cavity to relieve into the upstream side of the valve.



SCV Valve installed Thermal Relief system on 16" Class 600 Thru Conduit Expanding Gate Valve.



# Liquid: Pressure Loss Curves for TCG Valves - 2" thru 14"



The above graph is based on simulations. Results may differ due to uncertainty within the pipeline or flow conditions. The formulas can be used to find the actual flow coefficient for a given condition of flow. The equations are valid only for incompressible flow.

Flow Coefficient for Fully Open Valves	
2	228
3	601
4	1,108
6	3,000
8	5,000
10	7,560
12	11,547
14	13,416

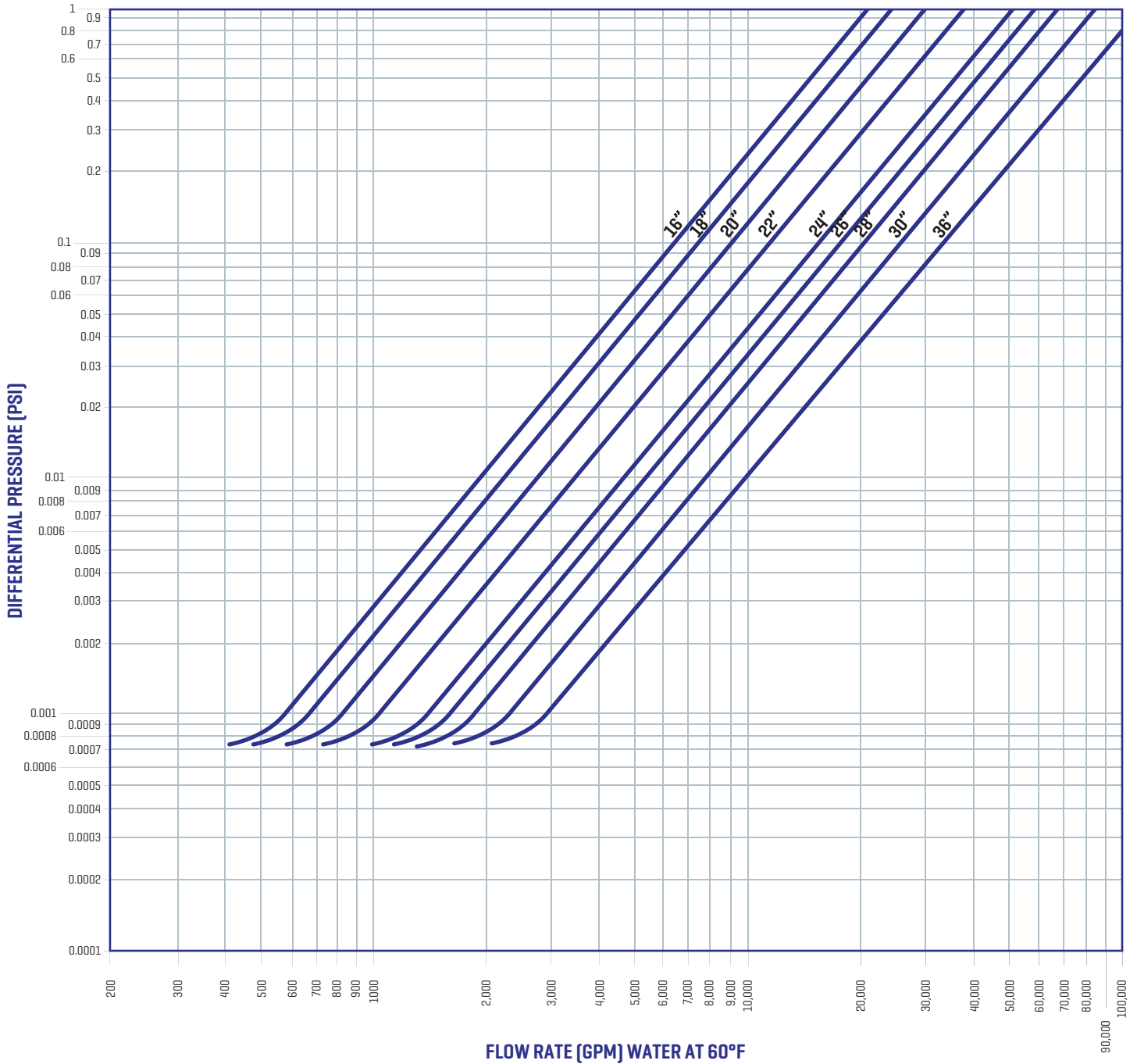
Glossary of Terms	
<b>Q</b>	Flow Rate, Liquids - GPM
<b>C<sub>v</sub></b>	Flow Coefficient
<b>P<sub>1</sub></b>	Inlet Pressure
<b>P<sub>2</sub></b>	Outlet Pressure
<b>ΔP</b>	Pressure Drop [P <sub>1</sub> - P <sub>2</sub> ]
<b>G</b>	Specific Gravity (Water = 1)

### Liquid (Incompressible Flow)

$$C_v = Q \sqrt{\frac{G}{\Delta P}} \quad Q = C_v \sqrt{\frac{\Delta P}{G}} \quad \Delta P = \left[ \frac{Q}{C_v} \right]^2 G$$



# Liquid: Pressure Loss Curves for TCG Valves - 16" thru 36"



The above graph is based on simulations. Results may differ due to uncertainty within the pipeline or flow conditions. The formulas can be used to find the actual flow coefficient for a given condition of flow. The equations are valid only for incompressible flow.

Flow Coefficient for Fully Open Valves	
16	21,213
18	25,000
20	30,237
22	37,187
24	50,709
26	58,423
28	67,131
30	80,041
36	109,888

Glossary of Terms	
<b>Q</b>	Flow Rate, Liquids - GPM
<b>C<sub>v</sub></b>	Flow Coefficient
<b>P<sub>1</sub></b>	Inlet Pressure
<b>P<sub>2</sub></b>	Outlet Pressure
<b>ΔP</b>	Pressure Drop (P <sub>1</sub> - P <sub>2</sub> )
<b>G</b>	Specific Gravity (Water = 1)

### Liquid (Incompressible Flow)

$$C_v = Q \sqrt{\frac{G}{\Delta P}} \quad Q = C_v \sqrt{\frac{\Delta P}{G}} \quad \Delta P = \left[ \frac{Q}{C_v} \right]^2 G$$

# Seal & Seat Pressure Temperature Chart

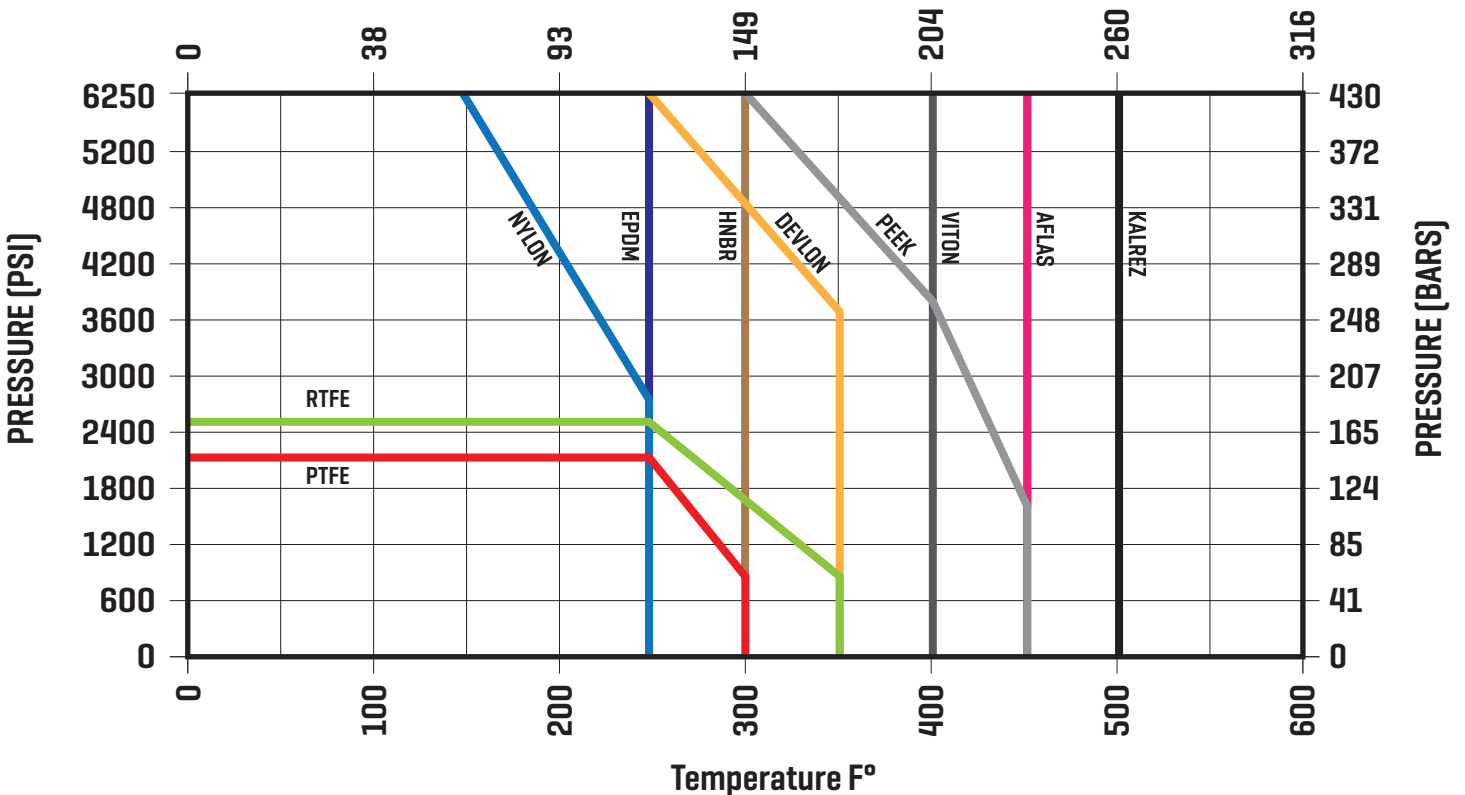
This chart depicts pressure and temperature ratings for common plastics and elastomers used in SCV Valve products.

## SCV VALVE SOFT GOOD CHEMICAL COMPATIBILITY

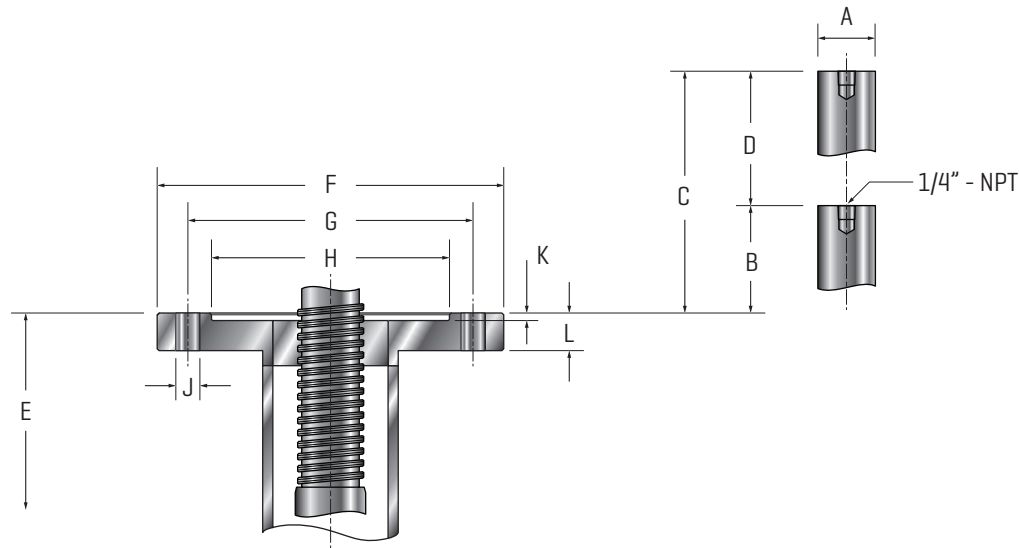
	SEAL MATERIAL			SEAT MATERIAL			
	Viton	HNBR	Kalrez	RTFE	Nylon	Devlon	PEEK
Amines	X	X	●	●	X	X	●
Ammonia	X	X	●	●	●	●	●
Butane	●	●	●	●	●	●	●
Carbon Dioxide	●	●	●	●	●	●	●
Crude Oil	●	●	●	●	●	●	●
Ethane	●	●	●	●	X	X	●
Ethylene	●	●	●	●	●	●	●
Glycol	●	●	●	●	●	X	●
Hydrocarbon	●	●	●	●	●	●	●
Hydrogen	●	●	●	●	●	●	●
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.

## PRESSURE TEMPERATURE CHART



# Expanding Gate Valve Operator Interface



Valve Size	ANSI Class	Stem Thread * Double Lead Thread	Top of Stem Closed "B"	Top of Stem Open "C"	Total Travel "D"	To Ctr. of Valve "E"	Mtg. Plt. O.D. "F"	Bolt Circle "G"	Flg. Pilot Dia. "H"	Mounting Holes "J"	Flg. Pilot Depth "K"	Mtg. Plt Thickness "L"	ISO/MSS Mtg. Pattern
2	300	1-5TPI-2G-LH	3.36	6.46	3.10	12.07	5.00	4.02	2.60	4 X .43	0.28	0.50	FA10
2	600	1-5TPI-2G-LH	3.36	6.46	3.10	12.07	5.00	4.02	2.60	4 X .43	0.28	0.50	FA10
2	900/1500	1-5TPI-2G-LH	3.36	6.46	3.10	12.17	5.00	4.02	2.60	4 X .43	0.28	0.50	FA10
3	150	1-5TPI-2G-LH	2.23	6.35	4.12	14.94	5.00	4.02	2.60	4 X .43	0.28	0.50	FA10
3	300	1-5TPI-2G-LH	2.20	6.32	4.12	14.94	5.00	4.02	2.60	4 X .43	0.28	0.50	FA10
3	600	1-5TPI-2G-LH	3.98	8.10	4.12	14.94	5.00	4.02	2.60	4 X .43	0.28	0.50	FA10
3	900	1-5TPI-2G-LH	3.9	8.10	4.12	14.94	5.00	4.02	2.60	4 X .43	0.28	0.50	FA10
4	150	1-5TPI-2G-LH	3.90	8.85	4.95	16.90	5.00	4.02	2.79	4 X .50	0.15	0.43	FA10
4	300	1-5TPI-2G-LH	3.90	8.50	4.60	16.90	5.00	4.02	2.79	4 X .50	0.15	0.43	FA10
4	600	1-1/4-5TPI-2G-LH	4.17	9.05	4.88	20.5	27.00	5.50	3.98	4 X .75	0.18	1.00	FA14
4	900	1-1/4-5TPI-2G-LH	4.17	9.05	4.88	20.52	7.00	5.50	3.98	4 X .75	0.18	1.00	FA14
6	150	1-5TPI-2G-LH	3.94	10.72	6.78	21.70	5.00	4.02	2.79	4 X .50	0.15	0.43	FA10
6	300	1-5TPI-2G-LH	3.94	10.72	6.78	21.70	5.00	4.02	2.79	4 X .50	0.15	0.43	FA10
6	600	1-1/2-4TPI-2G-LH	4.54	11.39	6.85	25.78	7.00	5.50	3.98	4 X .75	0.18	1.00	FA14
6	900	1-1/2-4TPI-2G-LH	4.54	11.39	6.85	25.78	7.00	5.50	3.98	4 X .75	0.18	1.00	FA14
8	150	1-1/2-4TPI-2G-LH	4.47	13.60	9.13	27.88	6.75	5.50	3.98	4 X .69	0.18	0.70	FA14
8	300	1-1/2-4TPI-2G-LH	4.47	13.60	9.13	27.88	6.75	5.50	3.98	4 X .69	0.19	0.70	FA14
8	600	1-3/4-4TPI-2G-LH	5.34	14.72	9.38	31.94	8.00	6.50	5.15	4 X .81	0.23	1.15	FA16
8	900	1-3/4-4TPI-2G-LH	5.37	14.75	9.38	31.94	8.00	6.50	5.15	4 X .81	0.23	1.15	FA16
10	150	1-1/2-4TPI-2G-LH	5.11	16.29	11.19	33.54	6.75	5.50	3.98	4 X .69	0.18	0.70	FA14
10	300	1-1/2-4TPI-2G-LH	5.18	16.37	11.19	33.46	6.75	5.50	3.97	4 X .69	0.19	0.70	FA14
10	600	2-4TPI-2G-LH	6.08	17.79	11.71	37.99	8.50	6.50	5.15	4 X .88	0.25	1.13	FA16
10	900	2-4TPI-2G-LH	6.08	17.79	11.71	37.99	8.50	6.50	5.15	4 X .88	0.25	1.13	FA16
12	150	1-1/2-4TPI-2G-LH	5.44	18.55	13.11	39.11	6.75	5.50	3.98	4 X .69	0.18	0.70	FA14
12	300	1-1/2-4TPI-2G-LH	5.44	18.55	13.11	39.11	6.75	5.50	3.98	4 X .69	0.185	0.70	FA14
12	600	2-1/4-3TPI-2G-LH	6.11	19.72	13.61	43.88	11.50	10.00	7.90	8 X .75	0.25	1.25	FA25
12	900	2-1/4-3TPI-2G-LH	6.11	19.72	13.61	43.88	11.50	10.00	7.90	8 X .75	0.25	1.25	FA25
14	600	2-1/2-3TPI-2G-LH	6.75	21.89	15.14	47.52	11.50	10.00	7.90	8 X .75	0.25	1.25	FA25
14	900	2-1/2-3TPI-2G-LH	6.75	21.89	15.14	47.44	11.50	10.00	7.90	8 X .75	0.25	1.25	FA25
16	150	*1.5-0.20P-0.40L-ACME-2G-LH	6.02	22.52	16.50	47.89	6.75	5.50	3.96	4 X .69	0.15	0.70	FA14
16	300	*2.0-0.25P-0.50L-ACME-2G-LH	6.01	22.45	16.44	48.38	11.80	10.00	7.89	8 X .75	0.20	0.88	FA25
16	600	*2.5-0.40P-0.80L-ACME-2G-LH	6.42	23.07	16.65	52.25	12.00	10.00	7.90	8 X .75	0.25	1.25	FA25
16	900	*2.5-0.40P-0.80L-ACME-2G-LH	6.52	23.17	16.65	52.25	12.00	10.00	7.90	8 X .75	0.25	1.25	FA25
18	600	*3.0-0.40P-0.80L-ACME-2G-LH	8.71	27.74	19.03	58.55	12.00	10.00	7.90	8 X .75	0.25	1.25	AF25
18	900	*3.0-0.40P-0.80L-ACME-2G-LH	8.71	27.74	19.03	58.55	12.00	10.00	7.90	8 X .75	0.25	1.25	FA25
20	150	*2.0-0.25P-0.50L-ACME-2G-LH	5.93	26.17	20.24	57.99	8.25	6.50	5.14	4 X .81	0.23	0.75	FA16
20	300	*2.0-0.25P-0.50L-ACME-2G-LH	5.87	26.05	20.18	58.11	11.80	10.00	7.89	8 X .75	0.20	0.88	FA25
20	600	*3.25-0.40P-0.80L-ACME-2G-LH	9.37	30.33	20.96	65.70	14.00	11.73	9.10	8 X .88	0.25	1.39	FA30
20	900	*3.25-0.40P-0.80L-ACME-2G-LH	8.88	29.84	20.96	66.20	16.38	14.02	10.28	8 X 1.25	0.25	1.39	FA35
22	600	*3.25-0.40P-0.80L-ACME-2G-LH	9.43	32.74	23.31	72.41	16.38	14.02	10.28	8 X 1.25	0.25	1.25	FA35
24	150	*2.5-0.40P-0.80L-ACME-2G-LH	7.22	31.80	24.58	70.38	11.80	10.00	7.89	8 X .75	0.22	1.00	FA25
24	300	*2.5-0.40P-0.80L-ACME-2G-LH	7.04	31.54	24.50	70.63	13.75	11.73	9.07	8 X .88	0.22	1.00	FA30
24	600	*4.0-0.40P-0.80L-ACME-2G-LH	9.64	34.97	25.33	78.35	16.38	14.02	10.28	8 X 1.25	0.25	1.25	FA35
24	900	*4.0-0.40P-0.80L-ACME-2G-LH	9.15	34.47	25.33	78.80	18.50	15.98	11.84	8 X 1.38	0.33	1.25	FA40
26	600	*4.0-0.40P-0.80L-ACME-2G-LH	9.80	36.68	26.88	83.41	16.38	14.02	10.28	8 X 1.25	0.25	1.25	FA35
28	600	*4.0-0.40P-0.80L-ACME-2G-LH	9.60	39.22	29.62	87.09	16.38	14.02	10.26	8 X 1.25	0.25	1.25	FA35
30	150	*2.5-0.40P-0.80L-ACME-2G-LH	7.00	37.56	30.56	83.93	13.75	11.73	9.07	8 X .88	0.22	0.88	FA30
30	300	*2.75-0.40P-0.80L-ACME-2G-LH	7.44	38.00	30.56	86.41	16.30	14.02	10.24	8 X 1.25	0.23	1.13	FA35
30	600	*4.0-0.40P-0.80L-ACME-2G-LH	10.20	41.00	30.80	94.41	18.50	15.98	11.84	8 X 1.38	0.33	1.3	FA40
36	150	*2.75-0.40P-0.80L-ACME-2G-LH	6.93	42.74	35.81	98.64	16.38	14.02	10.24	8 X 1.25	0.23	1.13	FA35
40	300	*3.25-0.40P-0.80L-ACME-2G-LH	7.89	43.70	35.81	101.68	18.50	15.98	11.84	8 X 1.38	0.33	1.38	FA40

# Slab Gate Valve Operator Interface

Valve Size	ANSI Class	Stem Thread * Double Lead Thread	Top of Stem Closed	Top of Stem Open	Total Travel	To Ctr. of Valve	Mtg. Plt. O.D.	Bolt Circle	Flg. Pilot Dia.	Mounting Holes	Flg. Pilot Depth	Mtg. Plt Thickness	ISO/MSS Mtg. Pattern
		"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"	"J"	"K"	"L"	
2	150	1-5TPI-2G-LH	3.49	6.33	2.84	11.72	5.00	4.02	2.60	4 X 0.43	0.28	0.50	FA10
2	300	1-5TPI-2G-LH	3.49	6.32	2.83	11.72	5.00	4.02	2.60	4 X 0.43	0.28	0.50	FA10
2	600	1-5TPI-2G-LH	3.25	6.30	3.05	12.07	5.00	4.02	2.60	4 X 0.43	0.28	0.50	FA10
2	900/1500	1-5TPI-2G-LH	3.15	6.30	3.15	12.17	5.00	4.02	2.60	4 X 0.43	0.28	0.50	FA10
3	150	1-5TPI-2G-LH	3.36	7.15	3.79	14.45	5.00	4.02	2.60	4 X 0.43	0.28	0.50	FA10
3	300	1-5TPI-2G-LH	3.36	7.12	3.76	14.45	5.00	4.02	2.60	4 X 0.43	0.28	0.50	FA10
3	600	1-5TPI-2G-LH	2.91	6.56	3.65	14.94	5.00	4.02	2.60	4 X 0.43	0.28	0.50	FA10
3	900	1-5TPI-2G-LH	2.91	6.56	3.65	14.94	5.00	4.02	2.60	4 X 0.43	0.28	0.50	FA10
4	150	1-5TPI-2G-LH	3.80	8.56	4.76	16.63	5.00	4.02	2.79	4 X 0.50	0.15	0.43	FA10
4	300	1-5TPI-2G-LH	3.80	10.50	6.70	16.63	5.00	4.02	2.79	4 X 0.50	0.15	0.46	FA10
4	600	1-1/4-5TPI-2G-LH	4.39	9.29	4.90	20.52	7.00	5.50	3.98	4 X 0.75	0.18	1.00	FA14
4	900	1-1/4-5TPI-2G-LH	4.39	9.29	4.90	20.52	7.00	5.50	3.98	4 X 0.75	0.18	1.00	FA14
6	150	1-5TPI-2G-LH	3.70	10.45	6.75	21.63	5.00	4.02	2.79	4 X 0.50	0.15	0.43	FA10
6	300	1-5TPI-2G-LH	3.70	10.45	6.75	21.63	5.00	4.02	2.79	4 X 0.50	0.15	0.43	FA10
6	600	1-1/2-4TPI-2G-LH	5.01	11.86	6.85	25.78	7.00	5.50	3.98	4 X 0.75	0.18	1.00	FA14
6	900	1-1/2-4TPI-2G-LH	5.01	11.86	6.85	25.78	7.00	5.50	3.98	4 X 0.75	0.18	1.00	FA14
8	150	1-1/2-4TPI-2G-LH	4.30	13.13	8.83	27.69	6.75	5.50	3.98	4 X 0.69	0.18	0.70	FA14
8	300	1-1/2-4TPI-2G-LH	4.30	13.13	8.83	27.69	6.75	5.50	3.98	4 X 0.69	0.18	0.70	FA14
8	600	1-3/4-4TPI-2G-LH	5.50	14.88	9.38	31.94	8.00	6.50	5.15	4 X 0.81	0.23	1.15	FA16
8	900	1-3/4-4TPI-2G-LH	5.50	14.88	9.38	31.94	8.00	6.50	5.15	4 X 0.81	0.23	1.15	FA16
10	150	1-1/2-4TPI-2G-LH	5.10	15.98	10.88	33.14	6.75	5.50	3.98	4 X 0.69	0.19	0.70	FA14
10	300	1-1/2-4TPI-2G-LH	5.10	15.98	10.88	33.14	6.75	5.50	3.98	4 X 0.69	0.19	0.70	FA14
10	600	2-4TPI-2G-LH	6.40	17.90	11.50	37.99	8.50	6.50	5.15	4 X 0.88	0.25	1.13	FA16
10	900	2-4TPI-2G-LH	6.40	17.90	11.50	37.99	8.50	6.50	5.15	4 X 0.88	0.25	1.13	FA16
12	150	1-1/2-4TPI-2G-LH	5.10	18.10	13.00	38.63	6.75	5.50	3.98	4 X 0.69	0.19	0.70	FA14
12	300	1-1/2-4TPI-2G-LH	5.10	18.10	13.00	38.63	6.75	5.50	3.98	4 X 0.69	0.19	0.70	FA14
12	600	2-1/4-3TPI-2G-LH	7.00	20.25	13.25	43.88	11.50	10.00	7.90	8 X 0.75	0.25	1.25	FA25
12	900	2-1/4-3TPI-2G-LH	7.00	20.25	13.25	43.88	11.50	10.00	7.90	8 X 0.75	0.25	1.25	FA25
14	150	*1.5-0.20P-0.40L-ACME-2G-LH	5.10	19.39	14.29	41.42	6.75	5.50	3.98	4 X 0.69	0.19	0.70	FA14
14	300	*1.5-0.20P-0.40L-ACME-2G-LH	5.10	19.39	14.29	41.42	6.75	5.50	3.98	4 X 0.69	0.19	0.70	FA14
14	600	2-1/2-3TPI-2G-LH	7.30	22.30	15.00	47.44	11.50	10.00	7.90	8 X 0.75	0.25	1.25	FA25
14	900	2-1/2-3TPI-2G-LH	7.30	22.30	15.00	47.44	11.50	10.00	7.90	8 X 0.75	0.25	1.25	FA25
16	150	*1.5-0.20P-0.40L-ACME-2G-LH	6.10	22.28	16.18	46.73	6.75	5.50	3.98	4 X 0.69	0.19	0.70	FA14
16	300	*1.5-0.20P-0.40L-ACME-2G-LH	6.10	22.28	16.18	46.73	6.75	5.50	3.98	4 X 0.69	0.19	0.70	FA14
16	600	*2.5-0.40P-0.80L-ACME-2G-LH	7.20	23.70	16.50	52.25	12.00	10.00	7.90	8 X 0.75	0.25	1.25	FA25
16	900	*2.5-0.40P-0.80L-ACME-2G-LH	7.20	23.70	16.50	52.25	12.00	10.00	7.90	8 X 0.75	0.25	1.25	FA25
18	150	*1.75"-0.25P-0.50L-ACME-2G-LH	7.10	25.26	18.16	51.31	8.25	6.50	5.14	4 X 0.81	0.22	0.75	FA16
18	300	*1.75"-0.25P-0.50L-ACME-2G-LH	6.60	24.76	18.16	51.79	8.25	6.50	5.14	4 X 0.81	0.22	0.75	FA16
18	600	*3.0-0.40P-0.80L-ACME-2G-LH	9.30	27.96	18.66	58.18	12.00	10.00	7.90	8 X 0.75	0.25	1.25	FA25
18	900	*3.0-0.40P-0.80L-ACME-2G-LH	9.30	27.96	18.66	58.18	12.00	10.00	7.90	8 X 0.75	0.25	1.25	FA25
20	150	*2.0-0.25P-0.50L-ACME-2G-LH	5.80	26.04	20.24	57.21	8.25	6.50	5.15	4 X 0.81	0.25	0.75	FA16
20	300	*2.0-0.25P-0.50L-ACME-2G-LH	5.80	25.93	20.13	57.21	8.25	6.50	5.15	4 X 0.81	0.25	0.75	FA16
20	600	*3.25-0.40P-0.80L-ACME-2G-LH	9.91	31.01	21.10	65.70	14.02	11.73	9.10	8 X 0.88	0.25	1.38	FA30
20	900	*3.25-0.40P-0.80L-ACME-2G-LH	9.90	30.49	20.59	66.20	16.38	14.02	10.28	8 X 1.25	0.25	1.39	FA35
22	600	*3.25-0.40P-0.80L-ACME-2G-LH	10.10	33.41	23.31	70.54	16.38	14.02	10.28	8 X 1.25	0.25	1.25	FA35
24	150	*2.0-0.25P-0.50L-ACME-2G-LH	6.50	30.96	24.46	68.61	8.25	6.50	5.15	4 X 0.81	0.23	0.75	FA16
24	300	*2.0-0.25P-0.50L-ACME-2G-LH	5.90	30.36	24.46	69.24	8.25	6.50	5.15	4 X 0.81	0.23	0.75	FA16
24	600	*4.0-0.40P-0.80L-ACME-2G-LH	10.40	35.73	25.33	78.30	16.38	14.02	10.28	8 X 1.25	0.25	1.25	FA35
26	600	*4.0-0.40P-0.80L-ACME-2G-LH	11.00	37.88	26.88	83.41	16.38	14.02	10.28	8 X 1.25	0.25	1.25	FA35
28	150	*2.5-0.40P-0.80L-ACME-2G-LH	6.60	35.22	28.62	80.48	8.25	6.50	5.15	4 X 0.81	0.25	0.88	FA25
30	150	*2.5-0.40P-0.80L-ACME-2G-LH	6.70	37.02	30.32	83.98	8.25	6.50	5.15	4 X 0.81	0.23	0.75	FA25
30	300	*2.5-0.40P-0.80L-ACME-2G-LH	6.90	37.28	30.38	85.66	11.50	10.00	7.90	8 X 0.69	0.25	1.00	FA25
30	600	*4.0-0.40P-0.80L-ACME-2G-LH	10.80	41.80	31.00	94.41	18.50	15.98	11.84	8 X 1.38	0.33	1.25	FA40
32	150	*2.5-0.40P-0.80L-ACME-2G-LH	6.80	38.98	32.18	88.79	8.25	6.50	5.15	4 X 0.81	0.25	0.88	FA25
36	150	*2.5-0.40P-0.80L-ACME-2G-LH	6.40	42.15	35.75	97.23	11.50	10.00	7.90	8 X 0.69	0.25	1.00	FA25
36	300	*2.75-0.40P-0.80L-ACME-2G-LH	9.20	45.30	36.10	105.37	16.38	14.02	10.28	8 X 1.25	0.25	1.25	FA35
36	600	*4.0-0.40P-0.80L-ACME-2G-LH	11.30	47.80	36.50	105.88	18.50	15.98	11.84	8 X 1.38	0.33	1.25	FA40
40	150	*2.75-0.40P-0.80L-ACME-2G-LH	6.60	47.20	40.60	110.01	14.02	11.75	9.10	8 X 0.88	0.25	1.00	FA30
40	300	*3.25-0.40P-0.80L-ACME-2G-LH	7.50	47.80	40.30	115.18	18.50	15.98	11.84	8 X 1.38	0.33	1.25	FA40
42	150	*2.75-0.40P-0.80L-ACME-2G-LH	6.60	48.90	42.30	114.39	14.02	11.75	9.10	8 X 0.88	0.25	1.00	FA30
42	300	*3.25-0.40P-0.80L-ACME-2G-LH	8.20	50.00	41.80	118.55	18.50	15.98	11.84	8 X 1.38	0.33	1.25	FA40

# Pressure Temperature Ratings - ASME B16.34 ■■■■■■■■■■

Note: Pressures in PSI

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



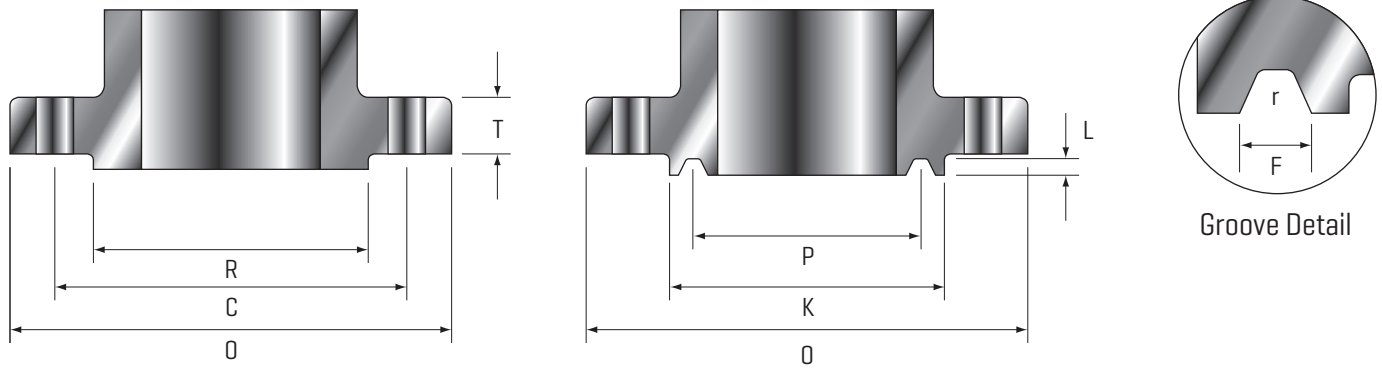


# Pressure Temperature Ratings - ASME B16.34 ■■■■■■■■■■

**Note:** Pressures in PSI

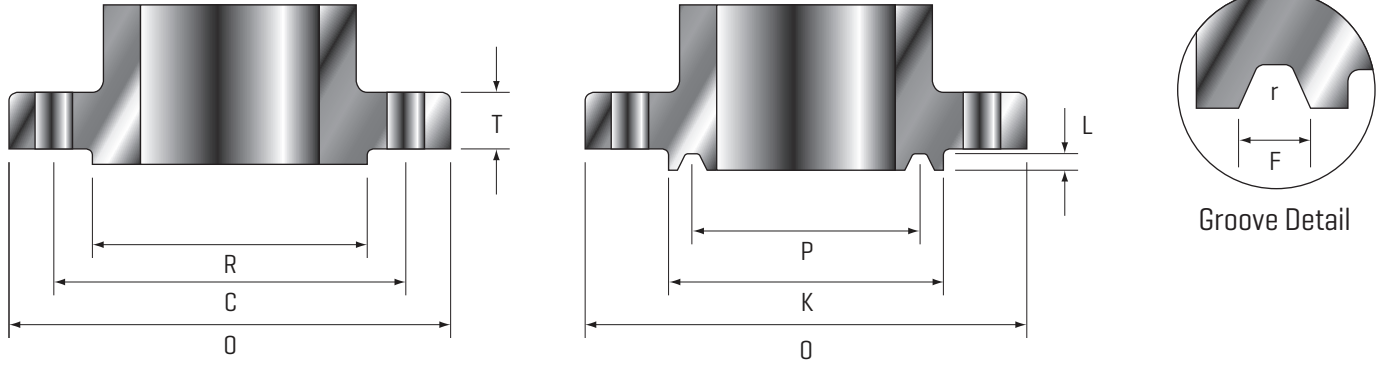
1500	Temp. F	A105	WCB	LF2	WCC	LCB	WC6	LCC	C5	C12	C12A	316	CF8M	F51	F53	
	-20 to 100	3705	3705	3705	3750	3480	3750	3750	3750	3750	3750	3750	3600	3600	3750	3750
	200	3395	3395	3395	3750	3300	3750	3750	3750	3750	3750	3750	3095	3095	3720	3720
	300	3270	3270	3270	3640	3190	3610	3640	3640	3640	3640	3640	2795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

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



Class	Size	Fig. Dia.	Fig. Thick.	Raised Face Dia.	Drilling			Face Dia.	Ring Joint				
					Bolt Circle Dia.	# of Bolts	Hole Dia.		Pitch Dia.	Grv. Depth	Grv. Width	Btm. Radius	Ring No.
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



Class	Size	Flg. Dia.	Flg. Thick.	Raised Face Dia.	Drilling			Face Dia.	Ring Joint				
					Bolt Circle Dia.	# of Bolts	Hole Dia.		Pitch Dia.	Grv. Depth	Grv. Width	Btm. Radius	Ring No.
					O	T	R	C	K	P	L	F	r
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
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	
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
24	41.00	5.50	27.25	35.50	20	2.62	30.38	27.250	0.625	1.062	0.09	R78	
1500	2	8.50	1.50	3.62	6.50	8	1.00	4.88	3.750	0.312	0.469	0.03	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
24	46.00	8.00	27.25	39.00	16	3.62	31.25	27.250	0.812	1.438	0.09	R79	
2500	2	9.25	2.00	3.62	6.75	8	1.00	4.48	4.000	0.312	0.469	0.030	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

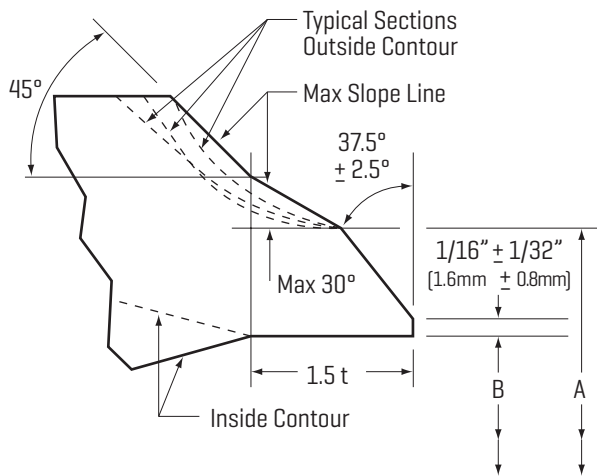
Nominal Pipe Size	Schedule Number or Wall	Outside Diameter (Cast Steel Valves) A		Nominal Inside Diameter B		Machined Inside Diameter C		Nominal Wall Thickness t	
		Inches	mm	Inches	mm	Inches	mm	Inches	mm
3	xxs	3-19/32	91.282	2.300	58.42	2.409	61.19	0.600	15.24
4	xxs	4-5/8	117.48	3.152	80.06	3.279	83.29	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
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
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

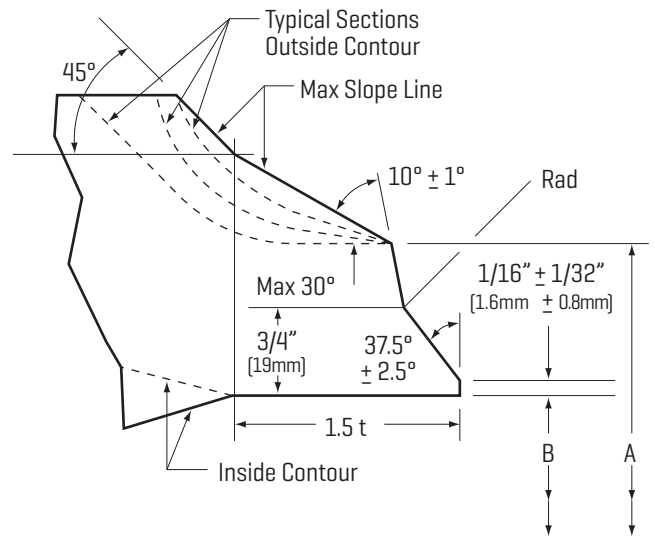
## Plain Bevel Butt-welding End for Pipe Wall Thickness is 7/8" [22.23mm] or less.

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



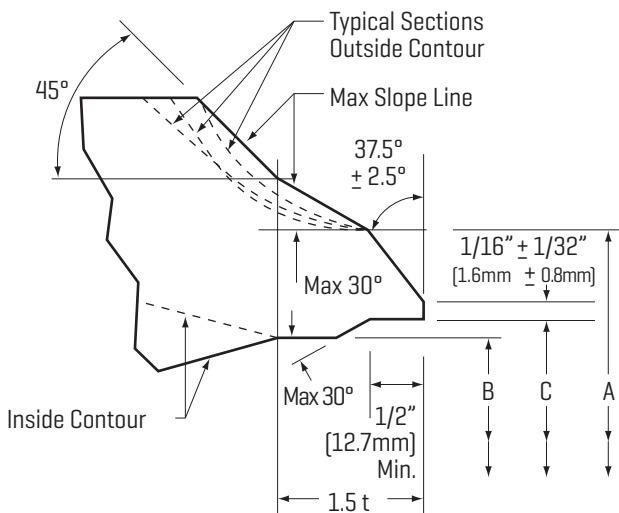
## Compound Bevel Butt-welding End for Pipe Wall Thickness Greater than 7/8" [22.23mm].

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



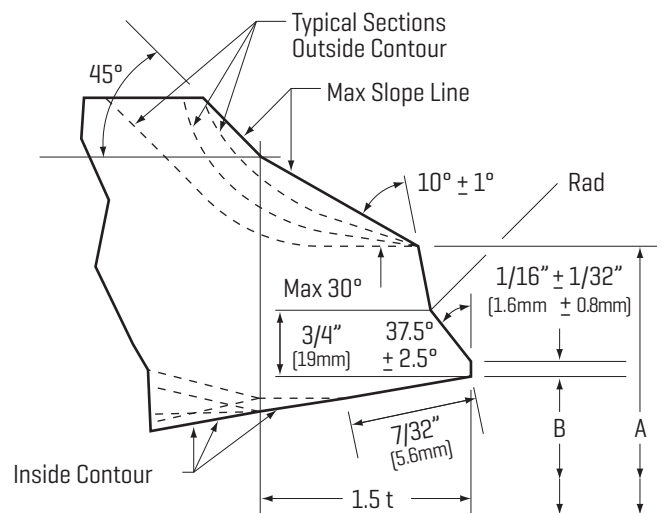
## Plain Bevel Butt-welding End for Pipe Wall Thickness is 7/8" [22.23mm] or less.

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.



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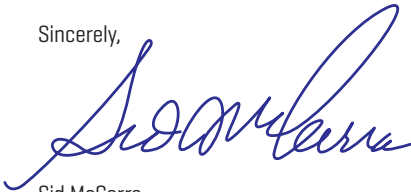
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Sincerely,



Sid McCarra

President

SCV Valve, LLC

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**Email:** [sales@scvvalve.com](mailto:sales@scvvalve.com)



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