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CATÁLOGO DE PRODUCTOS 2021

LÍDER MUNDIAL EN VÁLVULAS ESPECIALIZADAS DE USO INDUSTRIAL

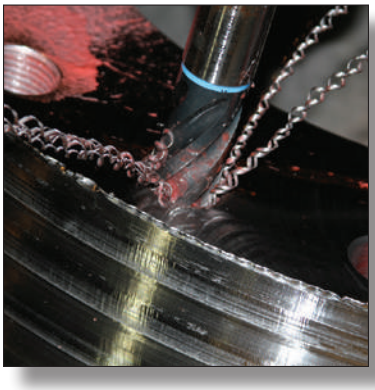
SCV VALVE
Innovative Valve Solutions®

(281) 482-4728 · www.scvvalve.com

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

Class: 150 - 1500
Sizes: 2” - 42”

SCV VALVE



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

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.

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.

Table of Contents

Complete Product Line

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

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.

Bore Coating: Scotchkote™ 134

FULL PORT SWING CHECKS

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

Exterior Coating: Epoxy

WEDGE GATES

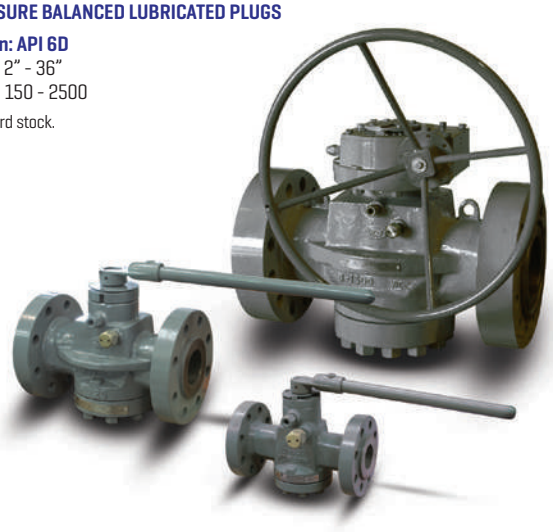
Design: API 600
Sizes: 2" - 48"
Class: 150 - 2500
Limited inventory availability. All sizes
and pressure classes made to order.

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

Certificate of Authority to use the Official API Monogram
License Number: 6A-1190 ORIGINAL

The American Petroleum Institute hereby grants to

SCV VALVE
3521 FM 646 Road North
Santa Fe, TX

the right to use the Official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1® and API-6A and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: 6A-1190

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

The scope of this license includes the following: Valves at PSL 1, PSL 2

QMS Exclusions: No Exclusions Identified as Applicable

Effective Date: DECEMBER 6, 2019
Expiration Date: DECEMBER 6, 2022

To verify the authenticity of this license, go to www.api.org/compositelist.

Vice President of Global Industry Services

American Petroleum Institute

Note: Extension letter availavle on our website.

API 6D Certification

Certificate of Authority to use the Official API Monogram
License Number: 6D-1099 ORIGINAL

The American Petroleum Institute hereby grants to

SCV VALVE
3521 FM 646 Road North
Santa Fe, TX

the right to use the Official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1® and API-6D and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: 6D-1099

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

The scope of this license includes the following: Check Valves, Ball Valves, Plug Valves and Gate Valves

QMS Exclusions: No Exclusions Identified as Applicable

Effective Date: DECEMBER 6, 2019
Expiration Date: DECEMBER 6, 2022

To verify the authenticity of this license, go to www.api.org/compositelist.

Vice President of Global Industry Services

American Petroleum Institute

Note: Extension letter availavle on our website.

ISO 9001:2015 Certificate

ABS Quality Evaluations
Certificate Of Conformance
This is to certify that the Quality Management System of:
SCV Valve, LLC
3521 FM 646 Road North
Santa Fe, TX 77510
U.S.A.

has been assessed by ABS Quality Evaluations, Inc. and found to be in conformance with the requirements set forth by:
ISO 9001:2015
The Quality Management System is applicable to:

ENGINEERING, MANUFACTURING, SALES, AND SERVICE OF HIGH PERFORMANCE VALVE PRODUCTS.
PRODUCT RANGE INCLUDES ALL SEVERE SERVICE & HIGH PRESSURE APPLICATIONS

This certificate may be found on the ABS QE Website (www.abs-qe.com). For certificates issued in the People's Republic of China information may also be verified on the CNCA website (www.cnca.gov.cn)

Certificate No: 44703
Certification Date: 16 June 2010
Effective Date: 16 May 2019
Expiration Date: 15 June 2022
Revision Date: 16 May 2019

Dominic Townsend, President

Validity of this certificate is based on the successful completion of the periodic surveillance audits of the management system defined by the above scope and is contingent upon prompt written notification to ABS Quality Evaluations, Inc. of significant changes to the management system or components thereof.
ABS Quality Evaluations, Inc. 1701 City Plaza Drive, Spring, TX 77389, U.S.A.
Validity of this certificate may be confirmed at www.abs-qe.com/cert_validation.
Copyright 2011-2019 ABS Quality Evaluations, Inc. All rights reserved.

CE PED Certificate

HPi VS
HPi Verification Services

Certificate of Quality System Approval

This is to certify that the product listed below conforms to the requirements of the
Pressure Equipment Directive 2014/68/EU
Annex III Module H

Certificate Number: HPiVS/P1012-055-Q-04
Date of Issue: 17-Jul-2019
Date of Expiry: 23-Jun-2022
Surveillance due: 23-Jun-2020
Manufacturer: SCV Valve LLC
3521 FM 646 Road North, Santa Fe
Texas 77510

Description of Pressure Equipment: Ball valves, Check valves, Gate valves, Globe valves and Plug valves – Range: 1/2" – 48" Class 150 through 2500
Equipment Identification: CE plate for Cat.I to III
Other Certification Standards Applied: ABSQE ISO 9001 cert 44703
API 6A:2010, API 6D:2014
Report Reference: HPiVS/P1012-055-4

This Certificate is valid in any European Economic Area Member State.
This Report has been issued by HPi Verification Services Ltd. which is a body notified to the European Commission according to the provisions of the Pressure Equipment Directive (Notified Body number 1521).

This Report is issued following the assessment of the documentation and implementation of the Quality System in accordance with the provisions of the quoted Conformity Assessment Module of the above directive. The CE Mark may be affixed to the Pressure Equipment within the scope of approval as described above once the EU 'declaration of conformity' has been signed by the responsible person. The number '1521', being HPi Verification Services Ltd. Notified Body number should also be placed on the equipment dataplate.

Managing Director
Technical Manager

CE

Canadian Registration Number

- Alberta
  - 0C07063.2
- British Columbia
  - 0C07063.21
- New Brunswick
  - 0C07063.27
- New Foundland & Laborador
  - 0C07063.20
- Northwest Territory
  - 0C07063.25
- Novascotia
  - 0C07063.27
- Nunavut
  - 0C07063.2N
- Manitoba
  - 0C07063.24
- Ontario
  - 0C07063.25
- Prince Edward island
  - 0C07063.29
- Yukon
  - 0C07063.2

SCV Figure Number Chart

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

1	2	3	4	5	6	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	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		

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	I = 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

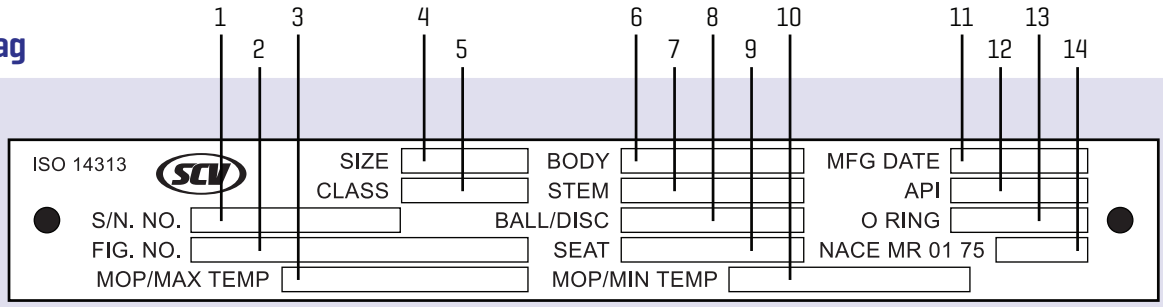
	Figure No. Chart Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Pressure Classes	**Type**	**Size**	**Class**	**Body Conf.**	**Body**	**Obturator**	**End**	**Oper**	**Bore Type**	**Seal**	**Seat.base**	**Seat/Insert**	**Stem**	**Packing**	**Service**
TRUNNION BALL	150, 300, 600	BAL	12	06	B	12	15	R	G	F	H	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 WAFER 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, Coventional 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, Coventional 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 WCB Body, A743 CA15 Obturator, RF Ends, Lever Operated, Coventional 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 WCB Body, A216 WCB + 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 GlobeValve, Bolted A216 WCB 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

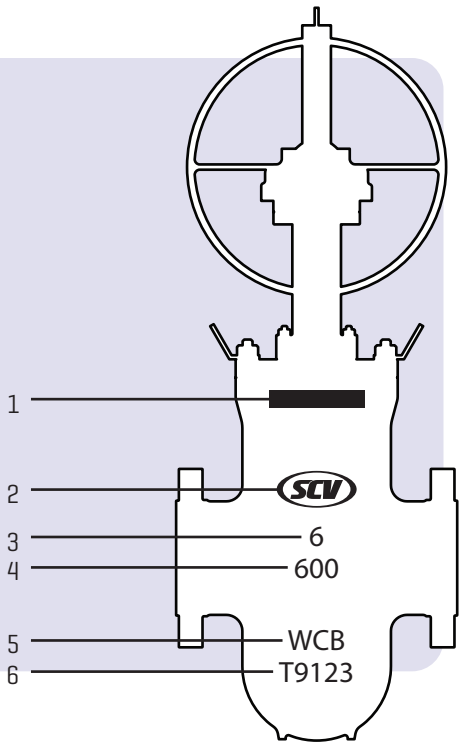
Valve ID Tag



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.

SCV VALVE

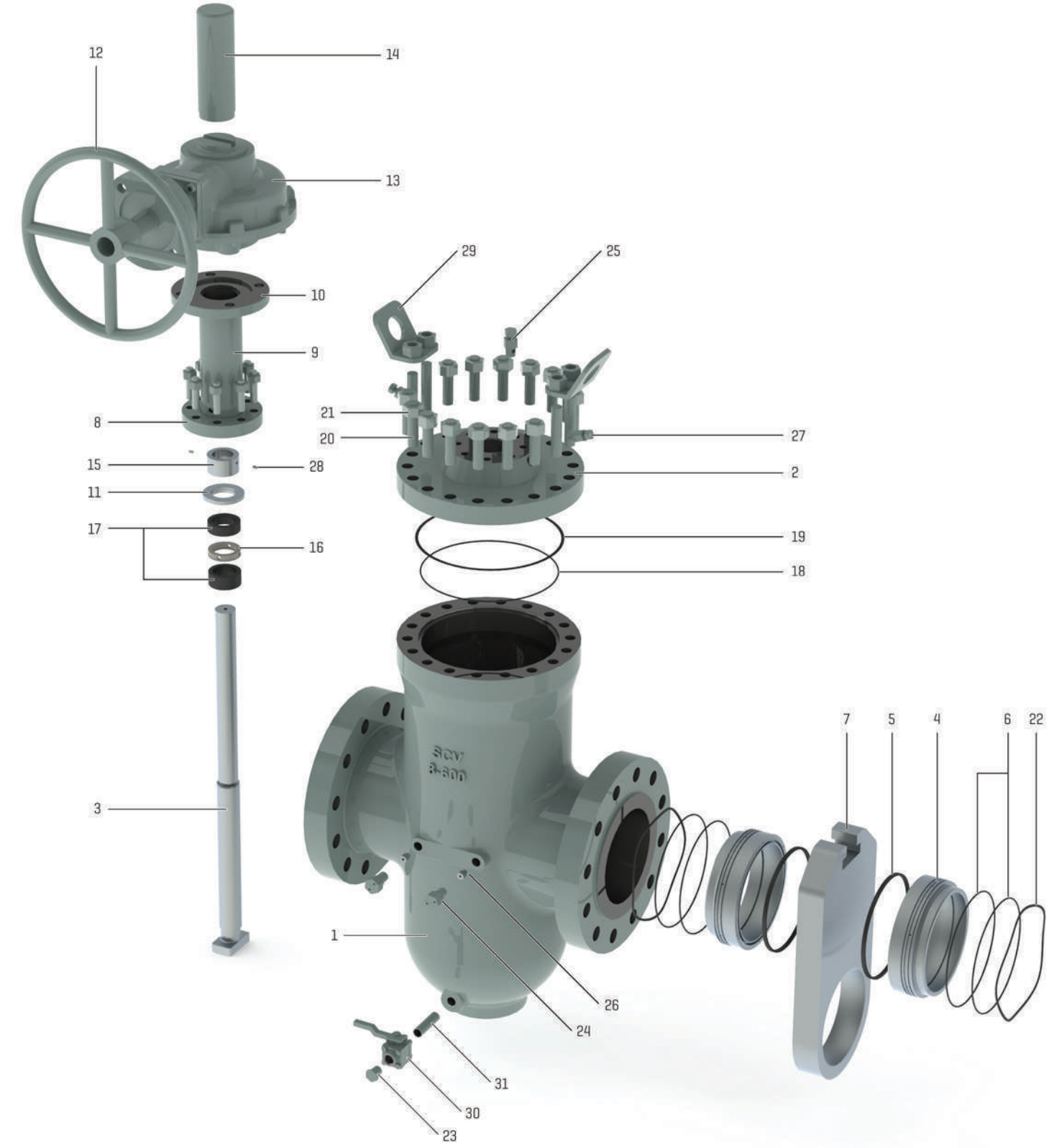
Thru Conduit Slab & Expanding Gate Valves

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)

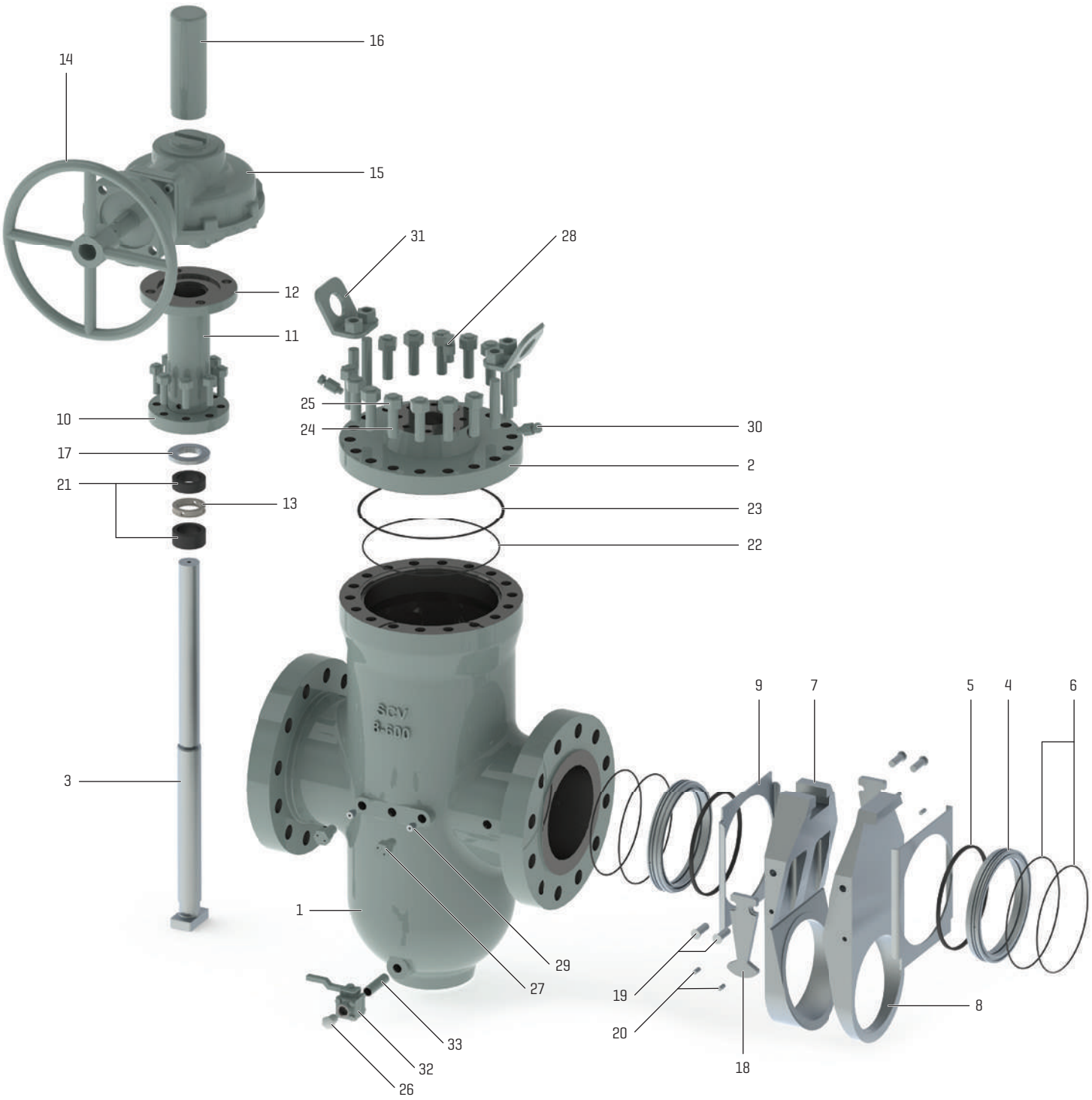
[Bill of Materials]

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]



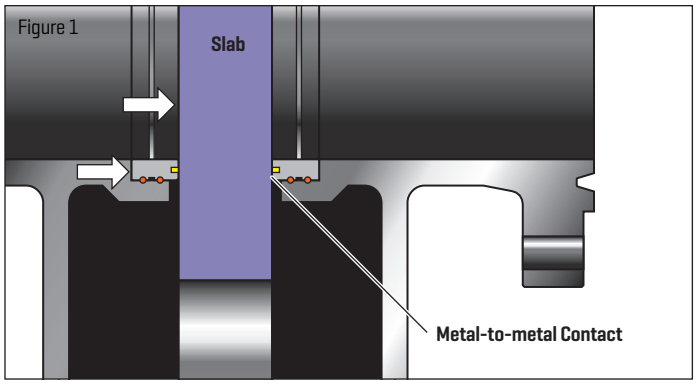
Thru Conduit Expanding Gate Valve (Bi-Directional) with Preferred Pressure Side

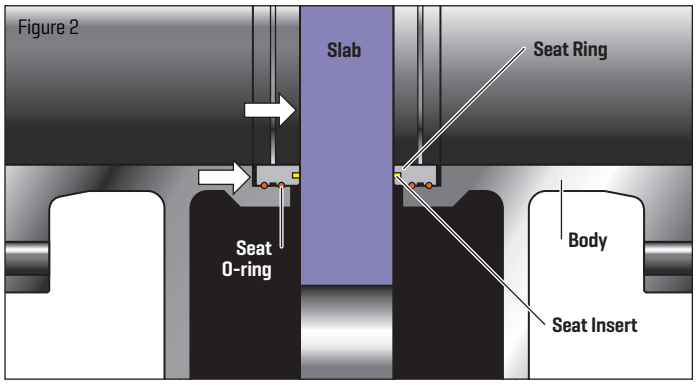
[Bill of Materials]

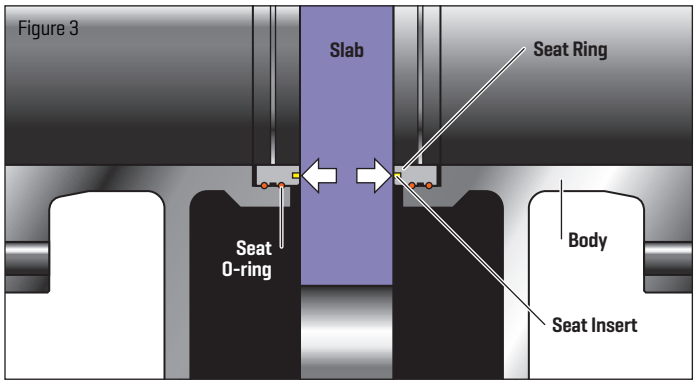
No.	Part	Material		
		Figure Number: 0813-VN	Figure Number: 0813-VR	Figure Number: 0215-HD
1	Body	ASTM A216 WCC		ASTM A352 LCC
2	Bonnet	ASTM A105		ASTM A350 LF2
3	Stem	ASTM A564 TType 630, 17-4		
4	Seat	ASTM A105 + ENP		ASTM A350 LF2 + ENP
5	Seat Insert	Nylon	RTFE	Devlon
6	Seat O-Rings	Viton AED		HNBR
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		

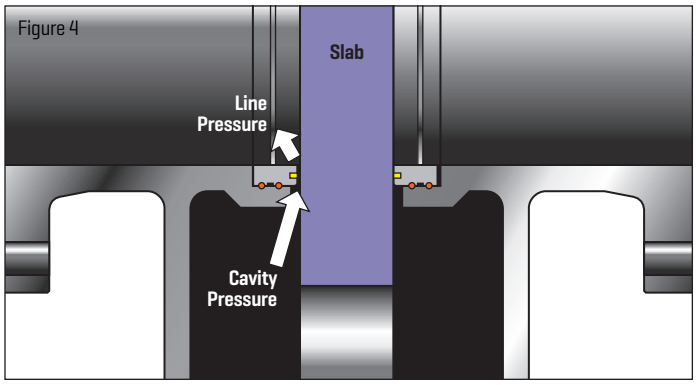
Slab Gate Advanced Mechanical Details

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.









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)**

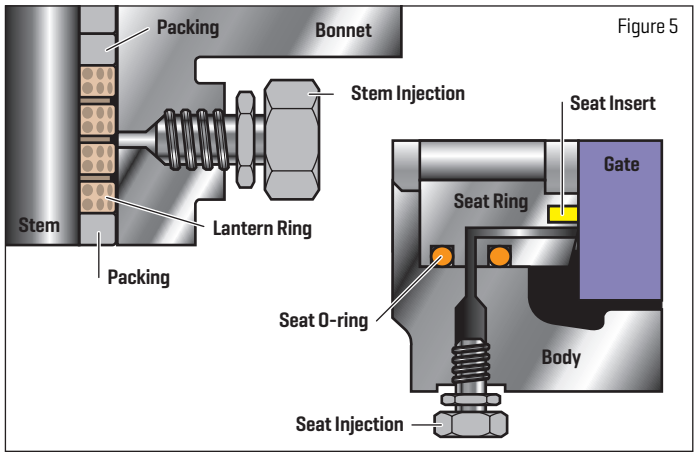
When line pressure is applied, the pressure forces the slab gate to float against the downstream seat and form a tight seal. At the same time, the upstream line pressure forces the upstream seat on the slab gate to form an upstream seal. **(Figure 3)**

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 presure will relieve to the lower differential side. **(Figure 4)**

Secondary Sealant and Packing Injection System

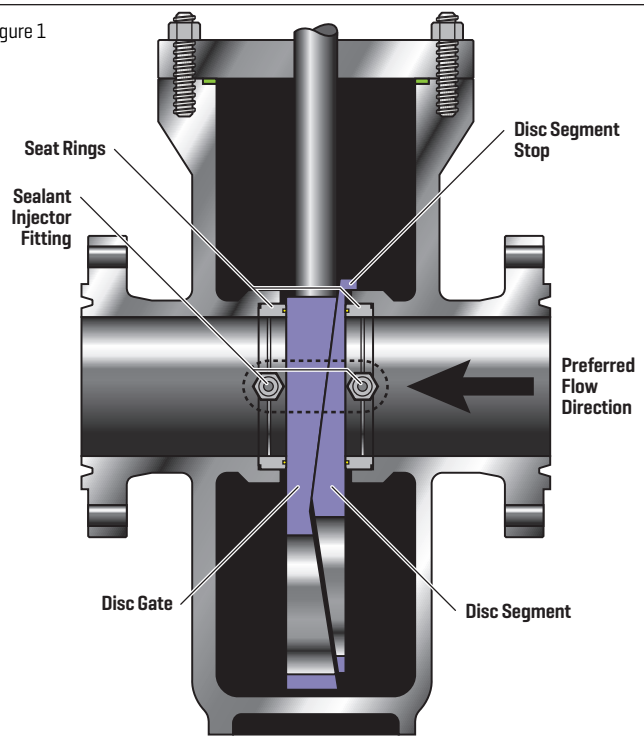
All valves will have secondary sealant injection fittings for the stem and seats. If the seat inserts or O-rings become damaged, leakage from the seat can be prevented by injecting sealant into the fittings. **(Figure 5)**



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.

Figure 1



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 is 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)**

Figure 2

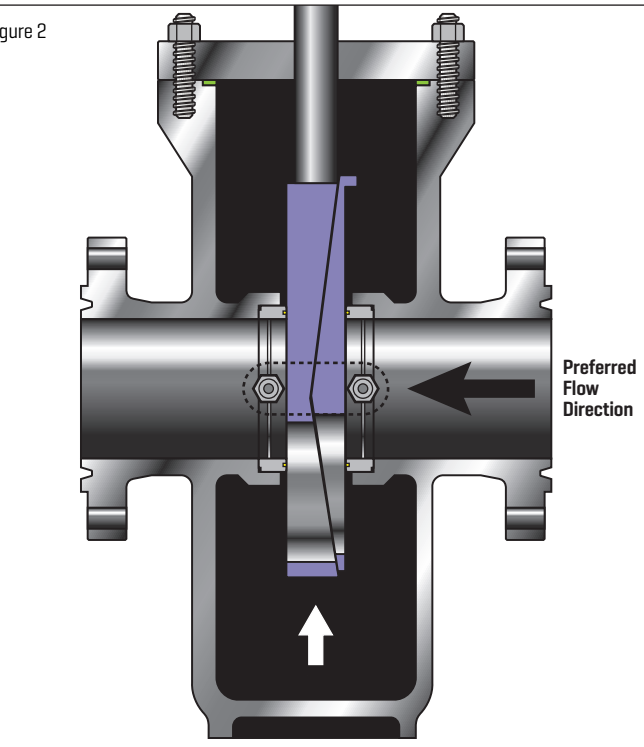
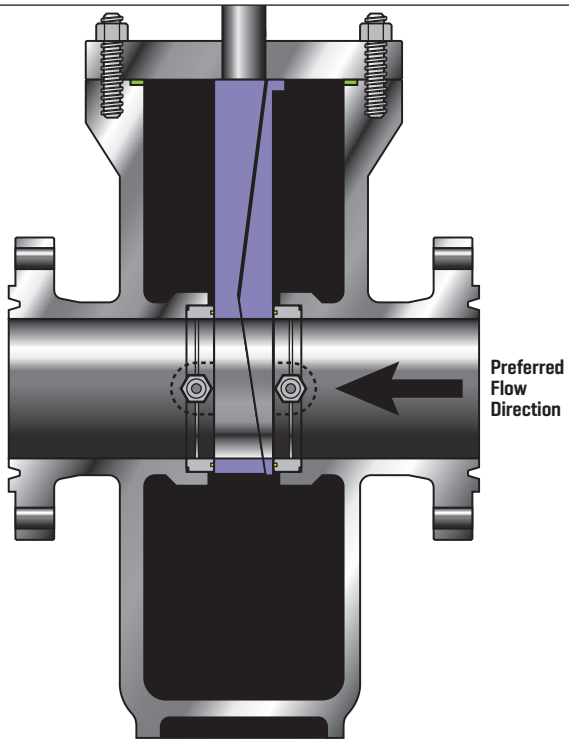
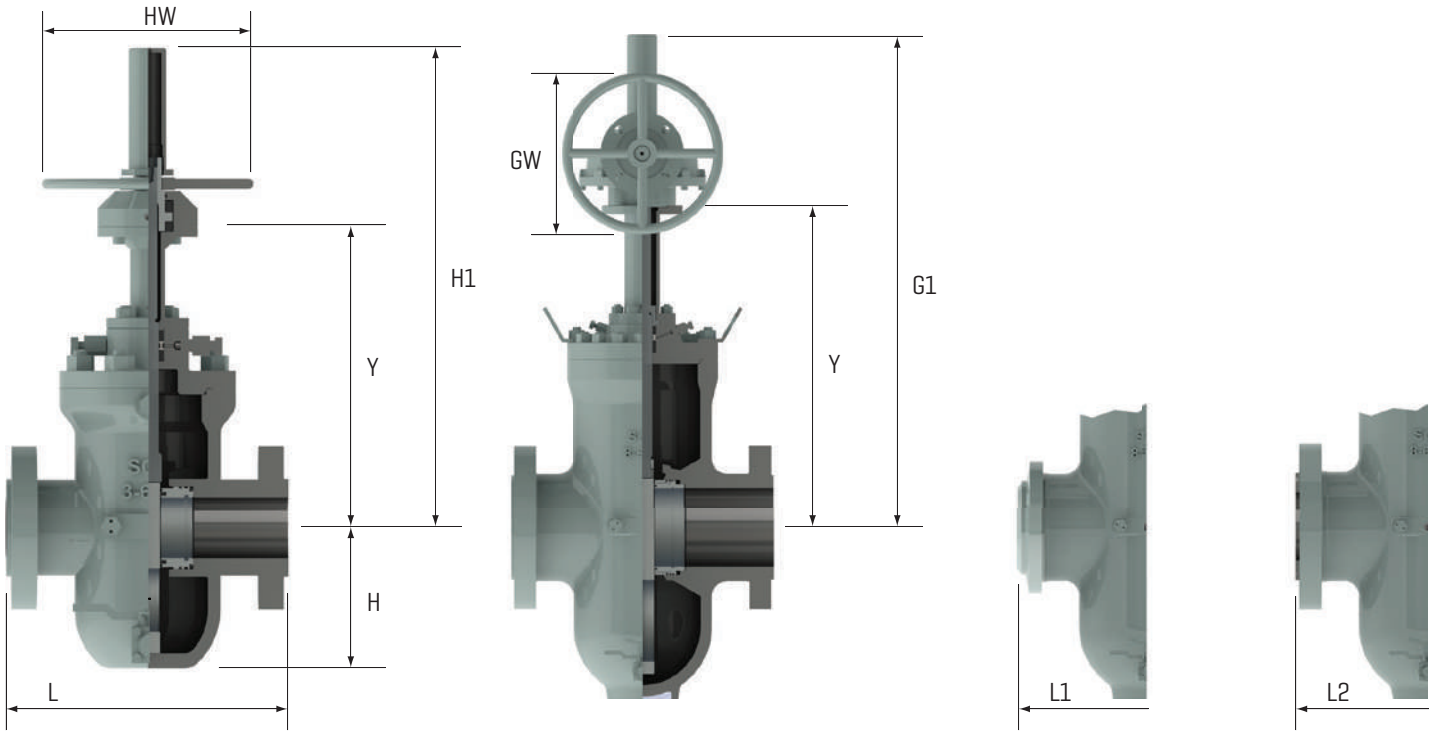


Figure 3



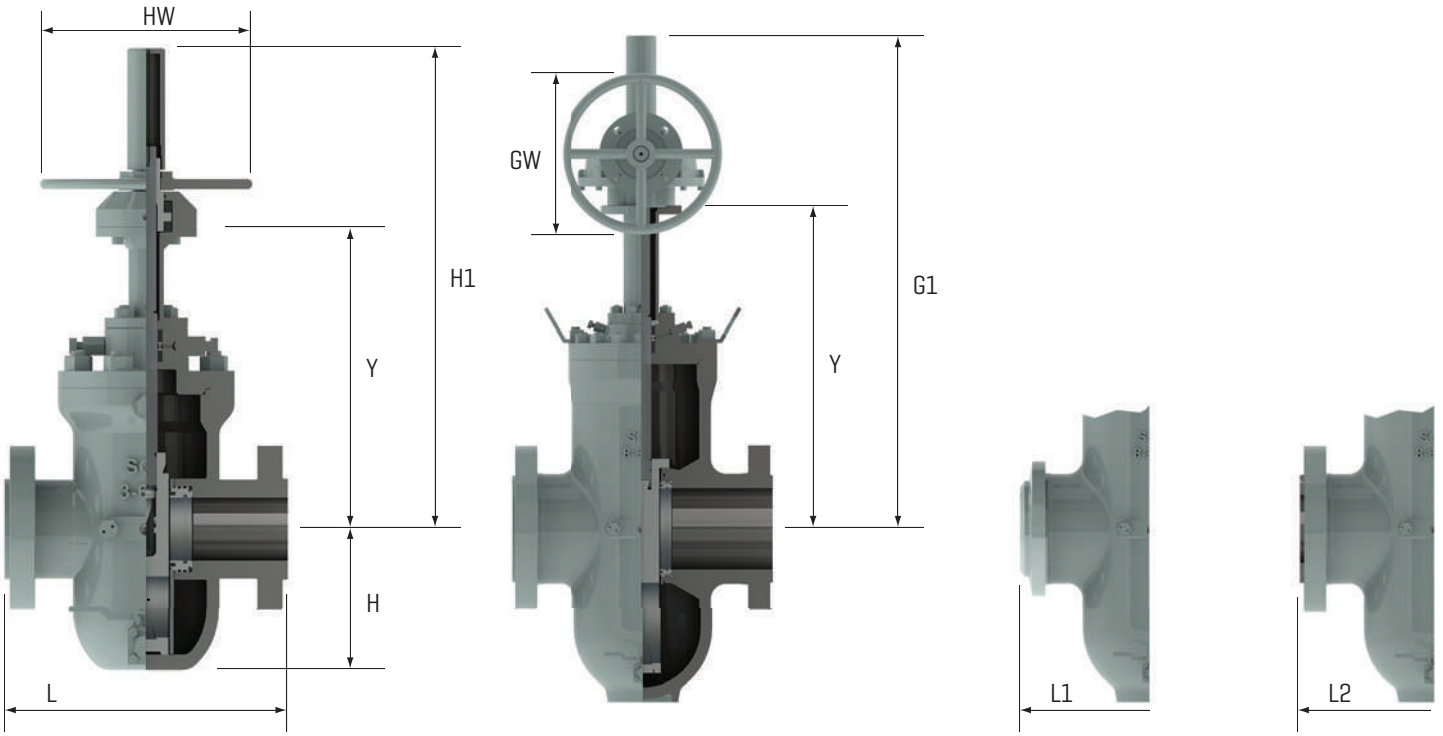
Slab Gate Valve Dimensions
Size: 2” - 42”
Class: 150



CLASS 150	SIZE		BORE	END-TO-END		CENTER-TO-BOTTOM	CENTER-TO-TOP OF YOKE	HANDWHEEL OPERATED		GEAR OPERATED		WEIGHTS LBS/KG
			F	RF - L	BW - L1	H	Y	H1	HW	G1	GW	
	IN	2	2.06	7.00	/	5.7	11.7	19.0	10	19.0	10	88
	MM	50	52	178	/	145	297	483	254	483	254	40
	IN	3	3.13	8.00	/	7.3	14.5	22.9	10.0	22.9	10.0	120
	MM	80	80	203	/	185	868	582	254	582	254	54
	IN	4	4.06	9.00	/	9.0	16.9	26.2	10.0	26.2	10.0	150
	MM	100	103	229	/	229	429	665	254	665	254	68
	IN	6	6.06	10.50	/	11.5	21.6	33.7	12.0	33.7	12.0	202
	MM	150	154	267	/	292	549	856	305	856	305	92
	IN	8	8.06	11.50	/	15.3	27.7	42.1	18.0	42.1	18.0	373
	MM	200	205	292	/	389	704	1069	457	1069	457	169
	IN	10	10.06	13.00	/	18.1	33.1	50.7	18.0	50.7	18.0	536
	MM	250	256	330	/	460	841	1288	457	1288	457	243
	IN	12	12.06	14.00	/	22.0	38.6	58.4	18.0	58.4	18.0	868
	MM	300	306	356	/	559	980	1483	457	1483	457	394
	IN	14	13.25	15.00	/	23.8	41.4	62.4	18.0	62.4	18.0	1125
	MM	350	337	381	/	605	1052	1585	457	1585	457	510
	IN	16	15.25	16.00	/	26.5	46.7	70.5	18.0	70.5	18.0	1516
	MM	400	387	406	/	673	1186	1791	457	1791	457	688
	IN	18	17.25	17.00	/	29.5	51.3	78.2	18.0	78.2	18.0	1893
	MM	450	438	432	/	749	1303	1986	457	1986	457	859
	IN	20	19.25	18.00	/	33.2	57.2	85.1	24.0	85.1	24.0	2561
	MM	500	489	457	/	843	1453	2162	610	2162	610	1162
	IN	24	23.25	20.00	/	39.7	68.6	101.2	24.0	101.2	24.0	4245
	MM	600	591	508	/	1008	1742	2570	610	2570	610	1926
	IN	28	27.00	24.00	/	46.0	80.5	117.4	24.0	117.4	24.0	6556
	MM	700	686	610	/	1168	2045	2982	610	2982	610	2974
	IN	30	29.00	26.00	/	49.3	84.0	122.5	24.0	122.5	24.0	7778
	MM	750	737	660	/	1252	2134	3112	610	3112	610	3528
	IN	32	30.75	28.00	/	52.6	88.8	129.9	24.0	129.9	24.0	9119
	MM	800	781	813	/	1336	2256	3299	610	3299	610	4136
	IN	36	34.50	32.00	/	58.0	97.2	141.0	24.0	141.0	24.0	11860
	MM	900	876	813	/	1473	2469	3581	610	3581	610	5380
	IN	40	38.50	36.00	/	64.8	110.0	158.3	24.0	158.3	24.0	15466
	MM	1000	978	914	/	1646	2794	4021	610	4021	610	7015
	IN	42	40.25	36.00	/	67.4	114.5	169.7	24.0	169.7	24.0	17304
	MM	1050	1022	914	/	1712	2908	4303	610	4303	610	7849

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.

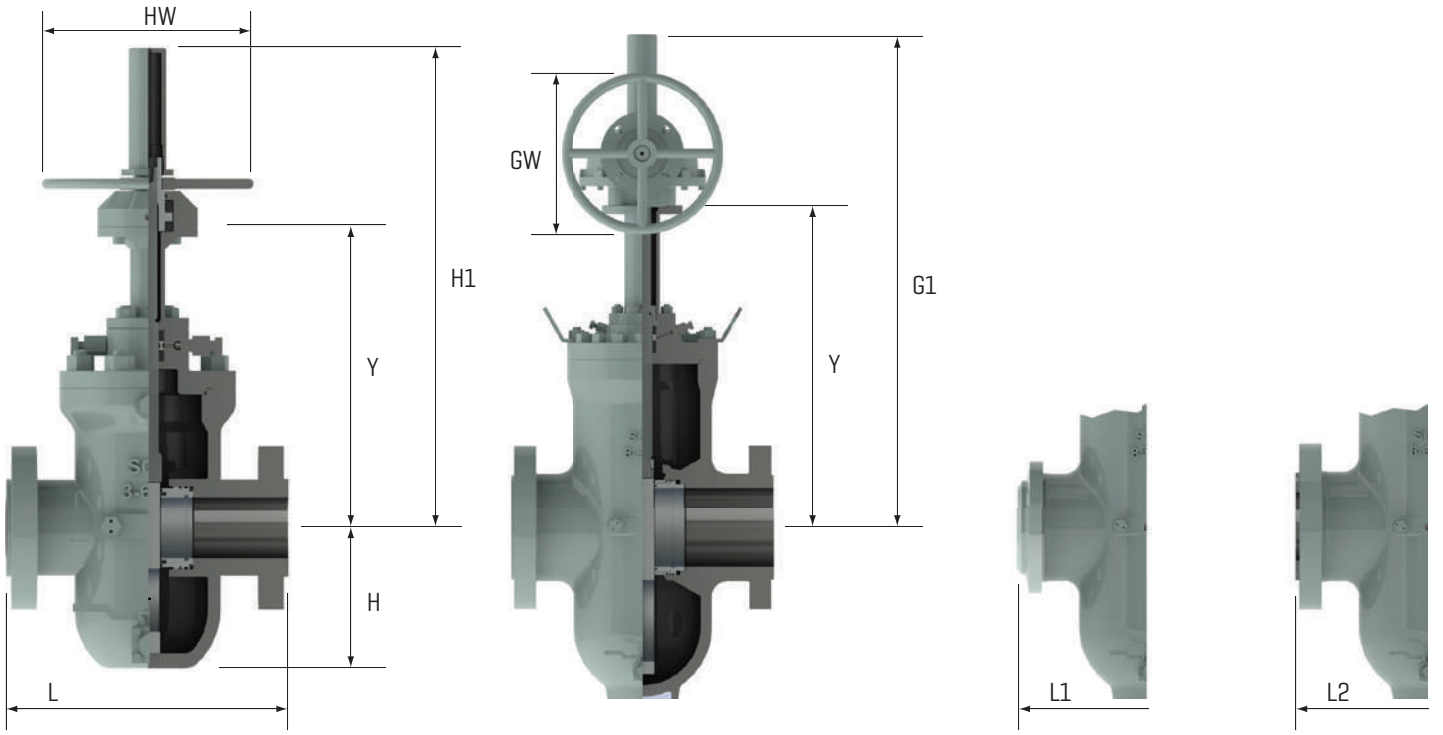
Expanding Gate Valve Dimensions
Size: 2” - 40”
Class: 150



CLASS 150	SIZE		BORE	END-TO-END		CENTER-TO-BOTTOM	CENTER-TO-TOP OF YOKE	HANDWHEEL OPERATED		GEAR OPERATED		WEIGHTS LBS/KG
			F	RF - L	BW - L1	H	Y	H1	HW	G1	GW	
	IN	3	3.13	11.13	/	7.0	14.9	23.8	10.0	23.8	10.0	155
	MM	80	80	283	/	178	378	605	254	605	254	70
	IN	4	4.06	9.00	/	9.0	16.9	27.4	10.0	27.4	10.0	150
	MM	100	103	229	/	229	429	696	254	696	254	68
	IN	6	6.06	10.50	/	12.1	21.7	34.0	12.0	34.0	12.0	232
	MM	150	154	267	/	307	551	864	305	864	305	105
	IN	8	8.06	11.50	/	15.9	27.9	43.1	18.0	43.1	18.0	434
	MM	200	205	292	/	404	709	1095	457	1095	457	197
	IN	10	10.06	13.00	/	19.4	33.5	51.6	18.0	51.6	18.0	713
	MM	250	256	330	/	493	851	1311	457	1311	457	323
	IN	12	12.06	14.00	/	22.6	39.1	59.2	18.0	59.2	18.0	1053
	MM	300	306	356	/	574	993	15.4	457	15.4	457	478
	IN	16	15.25	16.00	/	28.0	47.9	72.0	18.0	72.0	18.0	1922
	MM	400	387	406	/	711	1217	1829	457	1829	457	872
	IN	18	/	/	/	/	/	/	/	/	/	/
	MM	450	/	/	/	/	/	/	/	/	/	/
	IN	20	19.25	18.00	/	34.5	58.0	86.1	24.0	86.1	24.0	3361
	MM	500	489	457	/	876	1473	2187	610	2187	610	1525
	IN	22	21.25	19.00	/	38.8	/	99.3	24.0	99.3	24.0	4495
	MM	550	540	483	/	986	/	2522	610	2522	610	2039
	IN	24	23.25	20.00	/	40.8	70.4	103.1	24.0	103.1	24.0	5172
	MM	600	591	508	/	1036	1788	2619	610	2619	610	2346
	IN	30	29.00	26.00	/	50.4	83.9	125.4	24.0	125.4	24.0	9589
	MM	750	737	660	/	1280	2131	3185	610	3185	610	4349
	IN	32	30.75	/	/	/	/	/	/	/	/	/
	MM	800	781	/	/	/	/	/	/	/	/	/
	IN	36	34.50	34.50	/	59.5	98.6	145.4	24.0	145.4	24.0	14060
	MM	900	876	876	/	1511	2504	3693	610	3693	610	6378
	IN	40	38.50	36.00	/	66.5	110.7	159.0	24.0	159.0	24.0	21077
	MM	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.

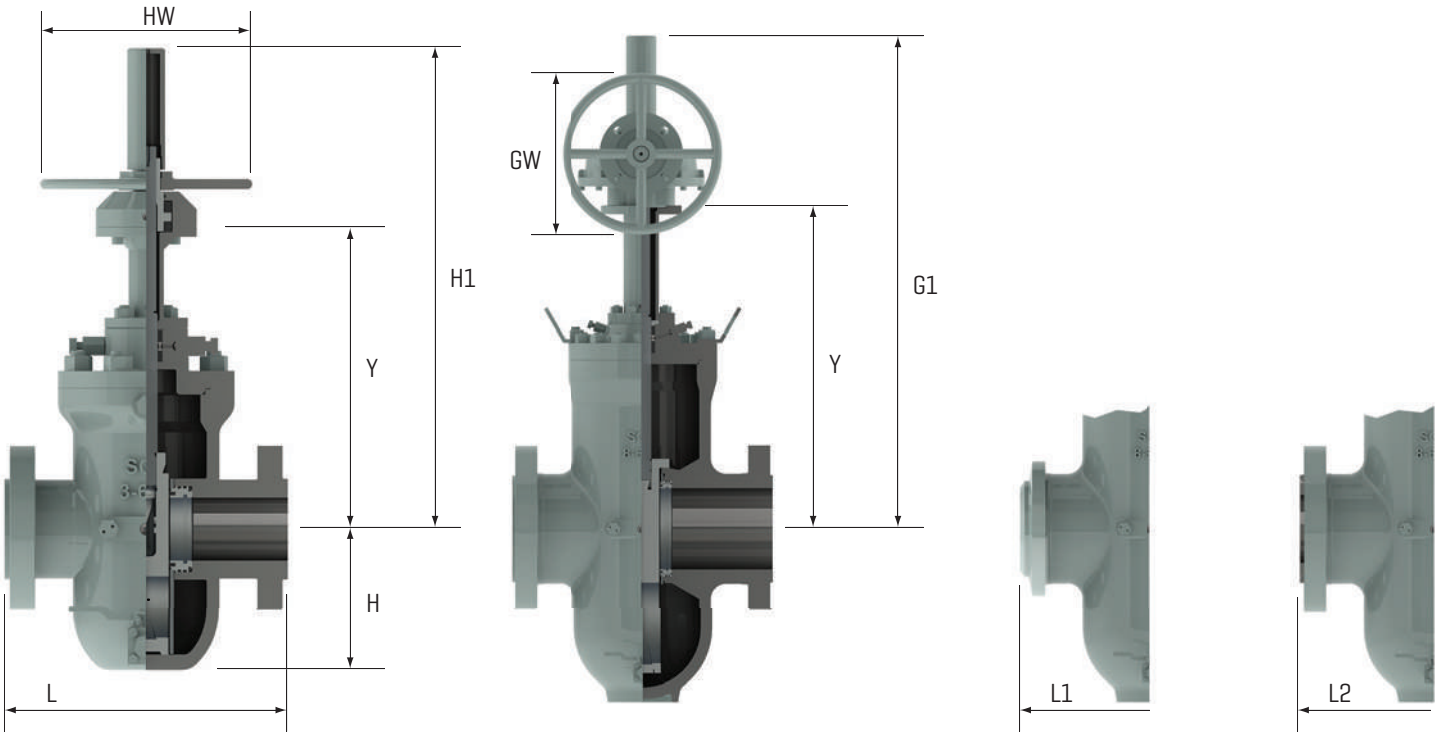
Slab Gate Valve Dimensions
Size: 2”- 40”
Class: 300



CLASS 300	SIZE		BORE	END-TO-END		CENTER-TO-BOTTOM	CENTER-TO-TOP OF YOKE	HANDWHEEL OPERATED		GEAR OPERATED		WEIGHTS LBS/KG
			F	RF - L	BW - L1	H	Y	H1	HW	G1	GW	
	IN	2	2.06	8.50	/	5.7	11.7	19.0	10	19.0	10	124
	MM	50	52	216	/	145	297	483	254	483	254	56
	IN	3	3.13	11.13	/	7.3	14.5	22.9	10.0	22.9	10.0	163
	MM	80	80	283	/	185	368	582	254	582	254	74
	IN	4	4.06	12.00	/	9.0	16.9	26.2	10.0	26.2	10.0	181
	MM	100	103	305	/	229	429	665	254	665	254	82
	IN	6	6.06	15.88	/	11.5	21.6	33.7	12.0	33.7	12.0	335
	MM	150	154	403	/	292	549	856	305	856	305	152
	IN	8	8.06	16.50	/	15.3	27.7	42.1	18.0	42.1	18.0	609
	MM	200	205	419	/	389	704	1069	457	1069	457	276
	IN	10	10.06	18.00	/	18.1	33.1	50.7	18.0	50.7	18.0	1000
	MM	250	256	457	/	460	841	1288	457	1288	457	454
	IN	12	12.06	19.75	/	22.0	38.6	58.4	18.0	58.4	18.0	1402
	MM	300	306	502	/	559	980	1483	457	1483	457	636
	IN	16	15.25	33.00	/	26.5	46.7	70.5	18.0	70.5	18.0	2764
	MM	400	387	838	/	673	1186	1791	457	1791	457	1254
	IN	20	19.25	39.00	/	33.2	57.2	85.1	24.0	85.1	24.0	4429
	MM	500	489	991	/	843	1453	2162	610	2162	610	2009
	IN	22	21.25	43.00	/	38.5	66.4	98.5	24.0	98.5	24.0	6488
	MM	550	540	1092	/	978	1687	2502	610	2502	610	2943
	IN	24	23.25	45.00	/	39.7	68.6	101.2	24.0	101.2	24.0	7039
	MM	600	591	1143	/	1008	1742	2570	610	2570	610	3193
	IN	30	29.00	55.00	/	49.3	84.0	122.5	24.0	122.5	24.0	12389
	MM	750	737	1397	/	1252	2134	3112	610	3112	610	5620
	IN	36	34.50	68.00	/	58.0	97.2	141.0	24.0	141.0	24.0	19722
	MM	900	876	1727	/	1473	2469	3581	610	3581	610	8946
	IN	40	38.50	84.50	/	64.8	110.0	158.3	24.0	158.3	24.0	26401
	MM	1000	978	2146	/	1646	2794	4021	610	4021	610	11975

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.

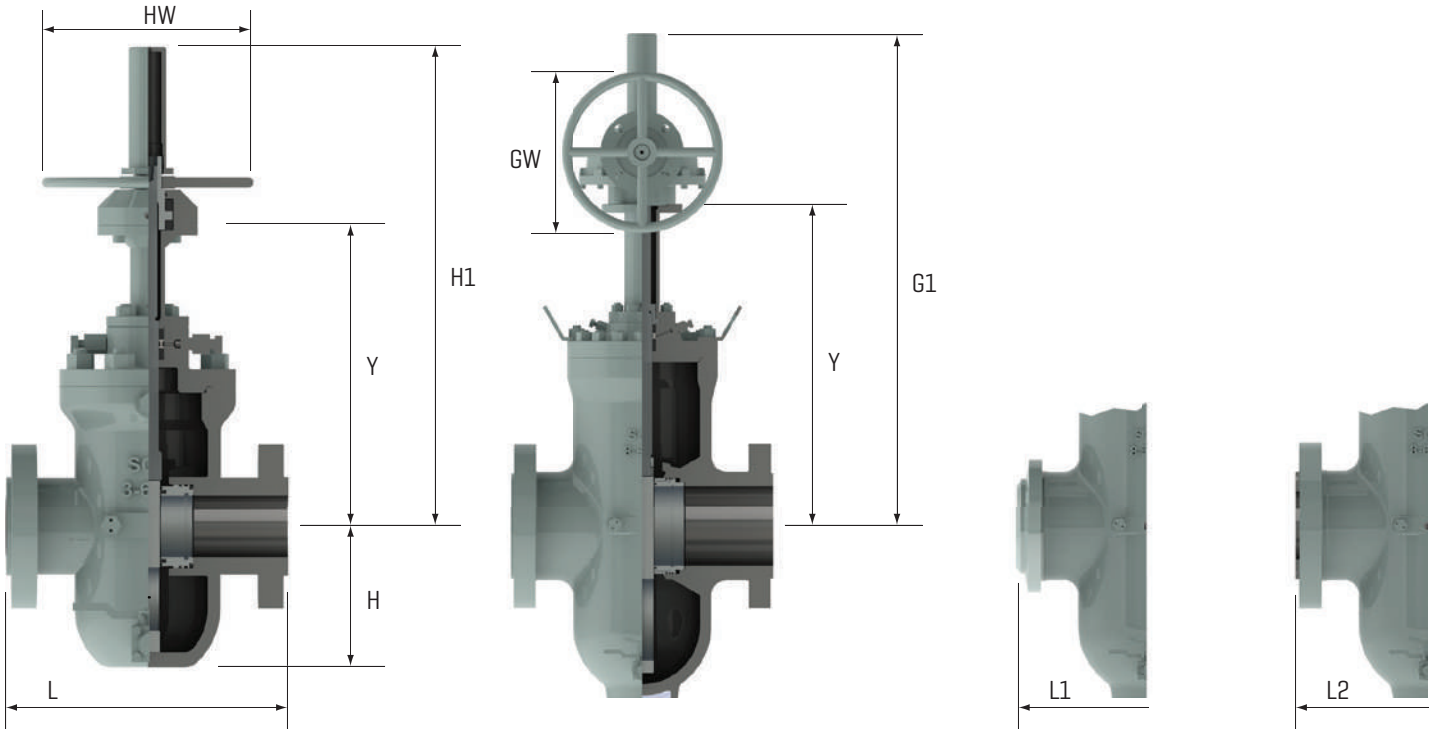
Expanding Gate Valve Dimensions
Size: 2”- 42”
Class: 300



CLASS 300	SIZE		BORE	END-TO-END		CENTER-TO-BOTTOM	CENTER-TO-TOP OF YOKE	HANDWHEEL OPERATED		GEAR OPERATED		WEIGHTS LBS/KG
			F	RF - L	BW - L1	H	Y	H1	HW	G1	GW	
	IN	2	2.06	8.50	/	5.7	11.7	19.0	10	19.0	10	93
	MM	50	52	216	/	145	297	483	254	483	254	42
	IN	3	3.13	11.13	/	7.3	14.5	22.9	10.0	22.9	10.0	141
	MM	80	80	283	/	185	368	582	254	582	254	64
	IN	4	4.06	12.00	/	9.0	16.9	26.2	10.0	26.2	10.0	181
	MM	100	103	305	/	229	429	665	254	665	254	82
	IN	6	6.06	15.88	/	11.5	21.6	33.7	12.0	33.7	12.0	310
	MM	150	154	403	/	292	549	856	305	856	305	141
	IN	8	8.06	16.50	/	15.3	27.7	42.1	18.0	42.1	18.0	540
	MM	200	205	419	/	389	704	1069	457	1069	457	245
	IN	10	10.06	18.00	/	18.1	33.1	50.7	18.0	50.7	18.0	733
	MM	250	256	457	/	460	841	1288	457	1288	457	332
	IN	12	12.06	19.75	/	22.0	38.6	58.4	18.0	58.4	18.0	1300
	MM	300	306	502	/	559	980	1483	457	1483	457	590
	IN	14	13.25	30.00	/	23.8	41.4	62.4	18.0	62.4	18.0	1626
	MM	350	337	762	/	605	1052	1585	457	1585	457	738
	IN	16	15.25	33.00	/	26.5	46.7	70.5	18.0	70.5	18.0	2420
	MM	400	387	838	/	673	1186	1791	457	1791	457	1098
	IN	18	17.25	36.00	/	29.5	51.3	78.2	18.0	78.2	18.0	3197
	MM	450	438	914	/	749	1303	1986	457	1986	457	1450
	IN	20	19.25	39.00	/	33.2	57.2	85.1	24.0	85.1	24.0	4000
	MM	500	489	991	/	843	1453	2162	610	2162	610	1814
	IN	24	23.25	45.00	/	39.7	68.6	101.2	24.0	101.2	24.0	6391
	MM	600	591	1143	/	1008	1742	2570	610	2570	610	2899
	IN	30	29.00	55.00	/	49.3	84.0	122.5	24.0	122.5	24.0	11272
	MM	750	737	1397	/	1252	2134	3112	610	3112	610	5113
	IN	36	34.50	68.00	/	58.0	97.2	141.0	24.0	141.0	24.0	17885
	MM	900	876	1727	/	1473	2469	3581	610	3581	610	8112
	IN	40	38.50	84.50	/	64.8	110.0	158.3	24.0	158.3	24.0	22237
	MM	1000	978	2146	/	1646	2794	4021	610	4021	610	10087
	IN	42	40.25	72.00	/	67.4	114.5	169.7	24.0	169.7	24.0	20381
	MM	1050	1022	1829	/	1712	2908	4303	610	4303	610	9245

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 LBS/KG
			F	RF - L	BW - L1	RTJ - L2	H	Y	H1	HW	G1	GW	
	IN	2	2.06	11.50	11.50	11.88	5.4	12.1	19.0	12.0	19.0	12.0	124
	MM	50	52	292	292	302	137	307	483	305	483	305	56
	IN	3	3.13	14.00	14.00	14.12	7.0	14.96	23.3	12.0	23.3	12.0	179
	MM	80	80	356	356	359	178	380	592	305	592	305	81
	IN	4	4.06	17.00	17.00	17.12	10.1	20.5	31.4	12.0	31.4	12.0	350
	MM	100	103	432	432	435	257	521	798	305	798	305	159
	IN	6	6.06	22.00	22.00	22.12	12.8	25.8	39.3	18.0	39.3	18.0	603
	MM	150	154	559	559	562	325	655	998	457	998	457	274
	IN	8	8.06	26.00	26.00	26.12	17.1	31.9	48.5	18.0	48.5	18.0	1069
	MM	200	205	660	660	663	434	810	1232	457	1232	457	485
	IN	10	10.06	31.00	31.00	31.12	21.3	38.0	57.6	18.0	57.6	18.0	1846
	MM	250	256	787	787	790	541	965	1463	457	1463	457	837
	IN	12	12.06	33.00	33.00	33.12	23.5	43.9	64.9	18.0	64.9	18.0	2442
	MM	300	306	838	838	841	597	1115	1648	457	1648	457	1108
	IN	14	13.25	35.00	35.00	35.12	26.8	47.4	71.4	24.0	71.4	24.0	3237
	MM	350	337	889	889	892	681	1204	1814	610	1814	610	1468
	IN	16	15.25	39.00	39.00	39.12	29.5	52.8	77.6	24.0	77.6	24.0	4204
	MM	400	387	991	991	994	749	1341	1971	610	1971	610	1907
	IN	18	17.25	43.00	43.00	43.12	33.3	58.2	87.8	24.0	87.8	24.0	5880
	MM	450	438	1092	1092	1095	846	1478	2230	610	2230	610	2667
	IN	20	19.19	47.00	47.00	47.25	36.8	65.7	98.3	30.0	98.3	30.0	8325
	MM	500	487	1194	1194	1200	935	1669	2497	610	2497	610	3776
	IN	22	21.25	51.00	/	/	40.8	72.4	107.3	24.0	107.3	24.0	10292
	MM	550	540	1295	/	/	1036	1839	2725	610	2725	610	4668
	IN	24	23.25	55.00	55.00	55.38	44.5	78.3	115.3	24.0	115.3	24.0	12718
	MM	600	591	1397	1397	1407	1130	1989	2929	610	2929	610	5769
	IN	30	29.00	65.00	65.00	65.38	54.0	94.4	140.1	24.0	140.1	24.0	21489
	MM	750	737	1651	1651	1661	1372	2398	3559	610	3559	610	9747
	IN	36	34.50	82.00	/	/	63.5	108.6	160.7	24.0	160.7	24.0	33646
	MM	900	876	2083	/	/	1613	2785	4082	610	4082	610	15262

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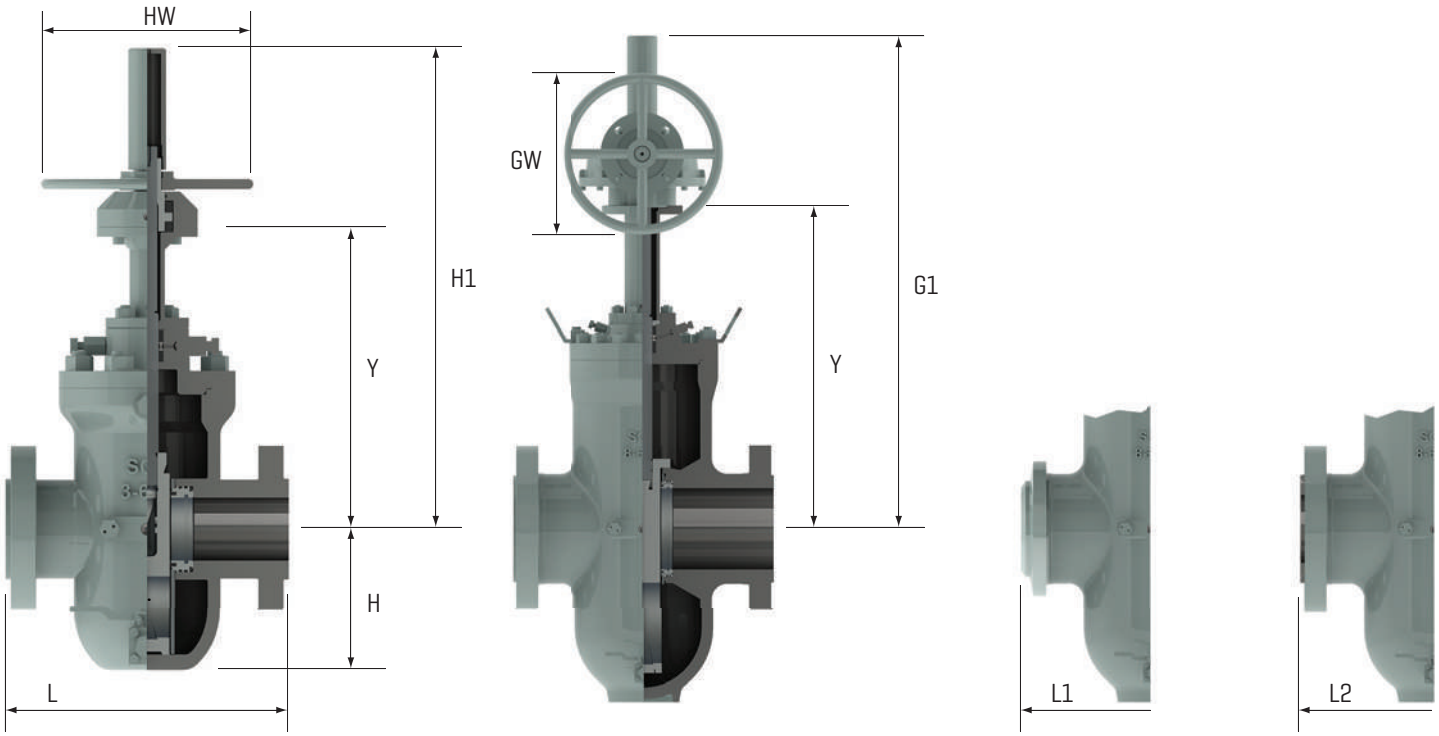
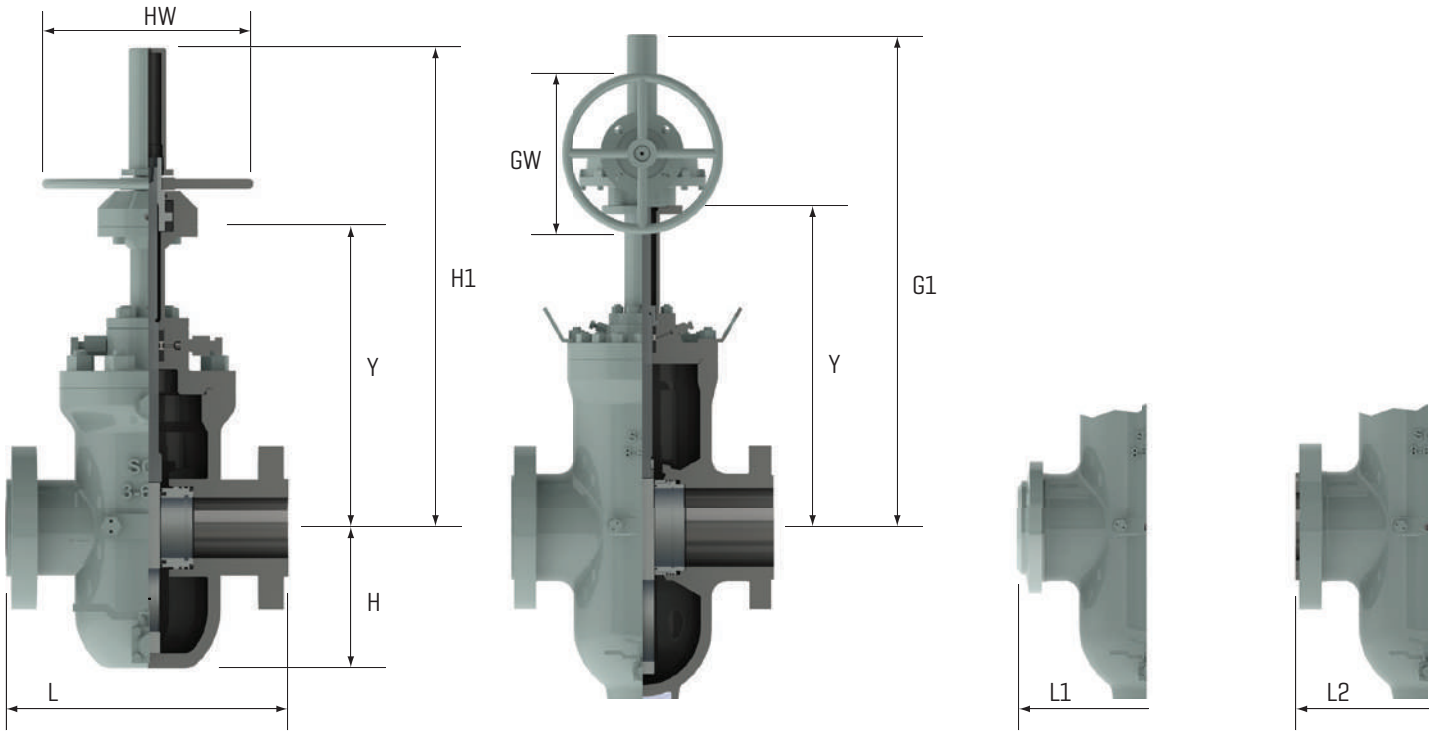
Expanding Gate Valve Dimensions
Size: 2” - 36”
Class: 600



CLASS 600	SIZE		BORE	END-TO-END			CENTER-TO-BOTTOM	CENTER-TO-TOP OF YOKE	HANDWHEEL OPERATED		GEAR OPERATED		WEIGHTS LBS/KG
			F	RF - L	BW - L1	RTJ - L2	H	Y	H1	HW	G1	GW	
	IN	2	2.06	11.50	11.50	11.88	5.4	12.1	19.0	12.0	19.0	12.0	124
	MM	50	52	292	292	302	137	307	483	305	483	305	56
	IN	3	3.13	14.00	14.00	14.12	7.0	14.96	23.3	12.0	23.3	12.0	184
	MM	80	80	356	356	359	178	380	592	305	592	305	83
	IN	4	4.06	17.00	17.00	17.12	10.1	20.5	31.4	12.0	31.4	12.0	349
	MM	100	103	432	432	435	257	521	798	305	798	305	158
	IN	6	6.06	22.00	22.00	22.12	12.8	25.8	39.3	18.0	39.3	18.0	601
	MM	150	154	559	559	562	325	655	998	457	998	457	273
	IN	8	8.06	26.00	26.00	26.12	17.1	31.9	48.5	18.0	48.5	18.0	1075
	MM	200	205	660	660	663	434	810	1232	457	1232	457	488
	IN	10	10.06	31.00	31.00	31.12	21.3	38.0	57.6	18.0	57.6	18.0	1876
	MM	250	256	787	787	790	541	965	1463	457	1463	457	851
	IN	12	12.06	33.00	33.00	33.12	23.5	43.9	64.9	18.0	64.9	18.0	2494
	MM	300	306	838	838	841	597	1115	1648	457	1648	457	1131
	IN	14	13.25	35.00	35.00	35.12	26.8	47.4	71.4	24.0	71.4	24.0	3327
	MM	350	337	889	889	892	681	1204	1814	610	1814	610	1059
	IN	16	15.25	39.00	39.00	39.12	29.5	52.8	77.6	24.0	77.6	24.0	4367
	MM	400	387	991	991	994	749	1341	1971	610	1971	610	1981
	IN	18	17.25	43.00	43.00	43.12	33.1	58.2	87.8	24.0	87.8	24.0	6047
	MM	450	438	1092	1092	1095	841	1478	2230	610	2230	610	2743
	IN	20	19.19	47.00	47.00	47.25	36.8	65.7	98.3	30.0	98.3	30.0	8610
	MM	500	487	1194	1194	1200	935	1669	2497	610	2497	610	3905
	IN	22	21.25	51.00	/	/	40.8	72.4	107.3	24.0	107.3	24.0	10720
	MM	550	540	1295	/	/	1036	1839	2725	610	2725	610	4863
	IN	24	23.25	55.00	55.00	55.38	44.5	78.3	115.3	24.0	115.3	24.0	13315
	MM	600	591	1397	1397	1407	1130	1989	2929	610	2929	610	6040
	IN	26	25.00	57.00	**	**	48.6	78.3	115.3	24.0	115.3	24.0	16417
	MM	650	635	1448	**	**	1234	1989	2929	610	2929	610	7447
	IN	28	27.00	61.00	**	**	52.0	78.3	115.3	24.0	115.3	24.0	18692
	MM	700	686	1549	**	**	1321	1989	2929	610	2929	610	8476
	IN	30	29.00	65.00	**	**	54.0	94.4	140.1	24.0	140.1	24.0	22606
	MM	750	737	1651	**	**	1372	2398	3559	610	3559	610	10254
	IN	36	34.50	82.00	**	**	64.0	108.6	160.7	24.0	160.7	24.0	35984
	MM	900	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.

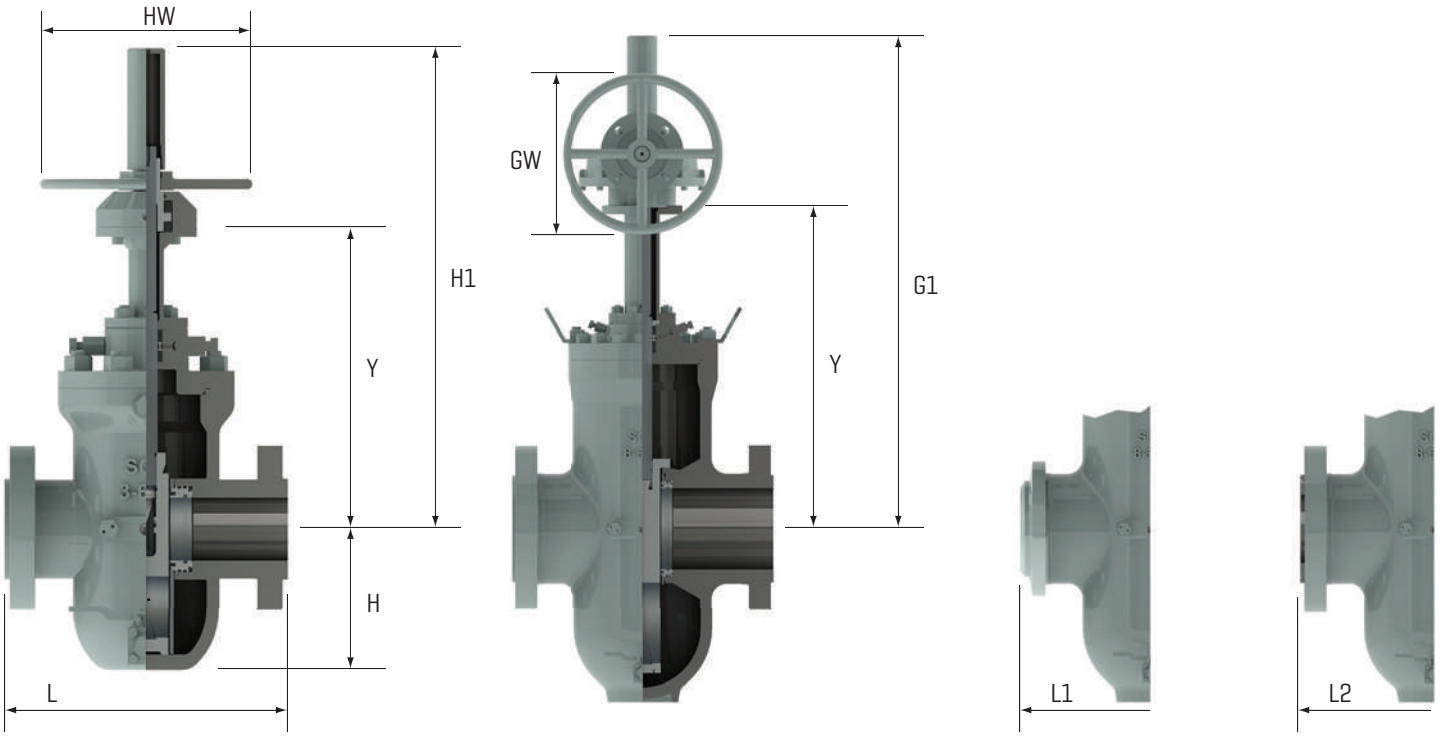
Slab Gate Valve Dimensions
Size: 2” - 24”
Class: 900



CLASS 900	SIZE		BORE	END-TO-END			CENTER-TO-BOTTOM	CENTER-TO-TOP OF YOKE	HANDWHEEL OPERATED		GEAR OPERATED		WEIGHTS LBS/KG
			F	RF - L	BW - L1	RTJ - L2	H	Y	H1	HW	G1	GW	
	IN	2	2.06	14.50	14.50	14.62	6.0	12.2	19.1	12.0	19.1	12.0	216
	MM	50	52	368	368	371	152	310	485	305	485	305	98
	IN	3	3.13	15.00	15.00	15.12	7.0	14.9	23.3	12.0	23.3	12.0	224
	MM	80	80	381	381	384	178	378	592	305	592	305	107
	IN	4	4.06	18.00	18.00	18.12	10.3	20.5	31.4	12.0	31.4	12.0	403
	MM	100	103	457	457	460	262	521	798	305	798	305	183
	IN	6	6.06	24.00	24.00	24.12	13.1	25.8	39.2	18.0	39.2	18.0	800
	MM	150	154	610	610	613	333	665	996	457	996	457	363
	IN	8	8.06	29.00	29.00	29.12	17.5	31.9	48.5	18.0	48.5	18.0	1346
	MM	200	205	737	737	740	445	810	1232	457	1232	457	611
	IN	10	10.06	33.00	33.00	33.12	21.8	38.0	57.6	18.0	57.6	18.0	2380
	MM	250	256	838	838	841	554	965	1463	457	1463	457	1080
	IN	12	12.06	38.00	38.00	38.12	24.4	43.9	65.6	24.0	65.6	24.0	3258
	MM	300	306	965	965	968	620	1115	1666	610	1666	610	1478
	IN	14	13.25	40.50	40.50	40.88	27.9	47.4	71.4	24.0	71.4	24.0	4208
	MM	350	337	1029	1029	1038	709	1204	1814	610	1814	610	1909
	IN	16	15.25	44.50	44.50	44.88	30.0	52.8	77.6	24.0	77.6	24.0	5343
	MM	400	387	1130	1130	1140	762	1341	1971	610	1971	610	2424
	IN	18	17.25	48.00	48.00	48.50	33.6	58.2	87.8	24.0	87.8	24.0	7382
	MM	450	438	1219	1219	1232	853	1478	2230	610	2230	610	3348
	IN	20	19.19	52.00	52.00	52.50	37.9	66.2	98.3	30.0	98.3	30.0	11400
	MM	500	487	1321	1321	1336	963	1681	2497	610	2497	610	5171
	IN	24	25.00	57.00	/	/	48.8	83.4	122.9	30.0	122.9	30.0	15737
	MM	600	635	1448	/	/	1240	2118	3122	610	3122	610	7138

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.

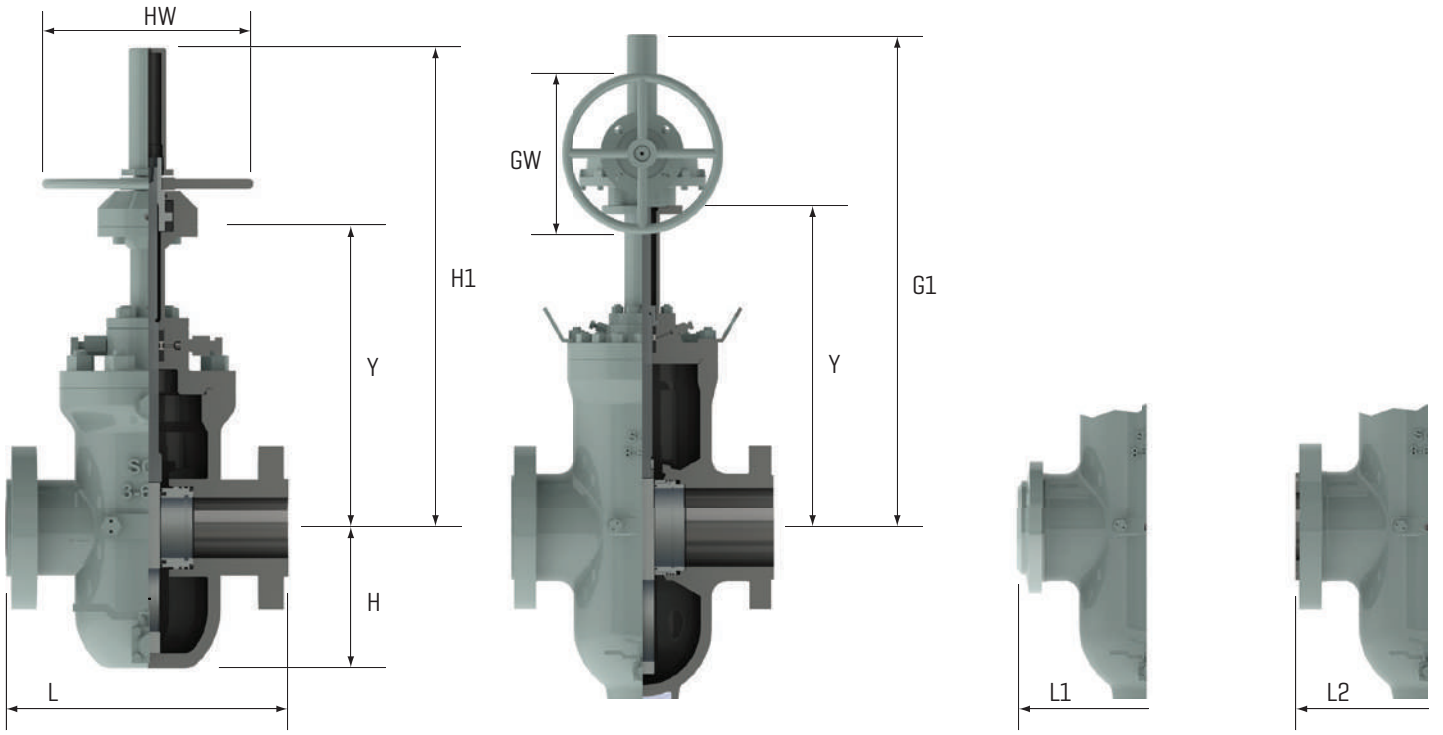
Expanding Gate Valve Dimensions
Size: 2” - 24”
Class: 900



CLASS 900	SIZE		BORE	END-TO-END			CENTER-TO-BOTTOM	CENTER-TO-TOP OF YOKE	HANDWHEEL OPERATED		GEAR OPERATED		WEIGHTS LBS/KG
			F	RF - L	BW - L1	RTJ - L2	H	Y	H1	HW	G1	GW	
	IN	2	2.06	14.50	14.50	14.62	6.0	12.2	20.2	12.0	20.2	12.0	215
	MM	50	52	368	368	371	152	310	513	305	513	305	98
	IN	3	3.13	15.00	15.00	15.12	7.0	14.9	23.8	12.0	23.8	12.0	225
	MM	80	80	381	381	384	178	378	605	305	605	305	102
	IN	4	4.06	18.00	18.00	18.12	10.3	20.5	31.2	12.0	31.2	12.0	410
	MM	100	103	457	457	460	262	521	792	305	792	305	186
	IN	6	6.06	24.00	24.00	24.12	13.1	25.8	38.8	18.0	38.8	18.0	798
	MM	150	154	610	610	613	333	665	986	457	986	457	362
	IN	8	8.06	29.00	29.00	29.12	17.5	31.9	48.3	18.0	48.3	18.0	1351
	MM	200	205	737	737	740	445	810	1227	457	1227	457	613
	IN	10	10.06	33.00	33.00	33.12	21.8	38.0	57.4	18.0	57.4	18.0	2402
	MM	250	256	838	838	841	554	965	1458	457	1458	457	1090
	IN	12	12.06	38.00	38.00	38.12	24.4	43.9	65.2	24.0	65.2	24.0	3307
	MM	300	306	965	965	968	620	1115	1656	610	1656	610	1500
	IN	14	13.25	40.50	40.50	40.88	27.9	47.4	70.6	24.0	70.6	24.0	4295
	MM	350	337	1029	1029	1038	709	1204	1793	610	1793	610	1948
	IN	16	15.25	44.50	44.50	44.88	30.0	52.8	77.6	24.0	77.6	24.0	5505
	MM	400	387	1130	1130	1140	762	1341	1971	610	1971	610	2497
	IN	18	17.25	48.00	48.00	48.50	33.6	58.2	88.0	24.0	88.0	24.0	7582
	MM	450	438	1219	1219	1232	853	1478	2235	610	2235	610	3439
	IN	20	19.19	52.00	52.00	52.50	37.9	66.2	97.9	30.0	97.9	30.0	11666
	MM	500	487	1321	1321	1336	963	1681	2487	610	2487	610	5292
	IN	24	25.00	57.00	/	/	48.8	83.4	116.6	30.0	116.6	30.0	19298
	MM	600	635	1448	/	/	1240	2118	2962	610	2962	610	8753

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.

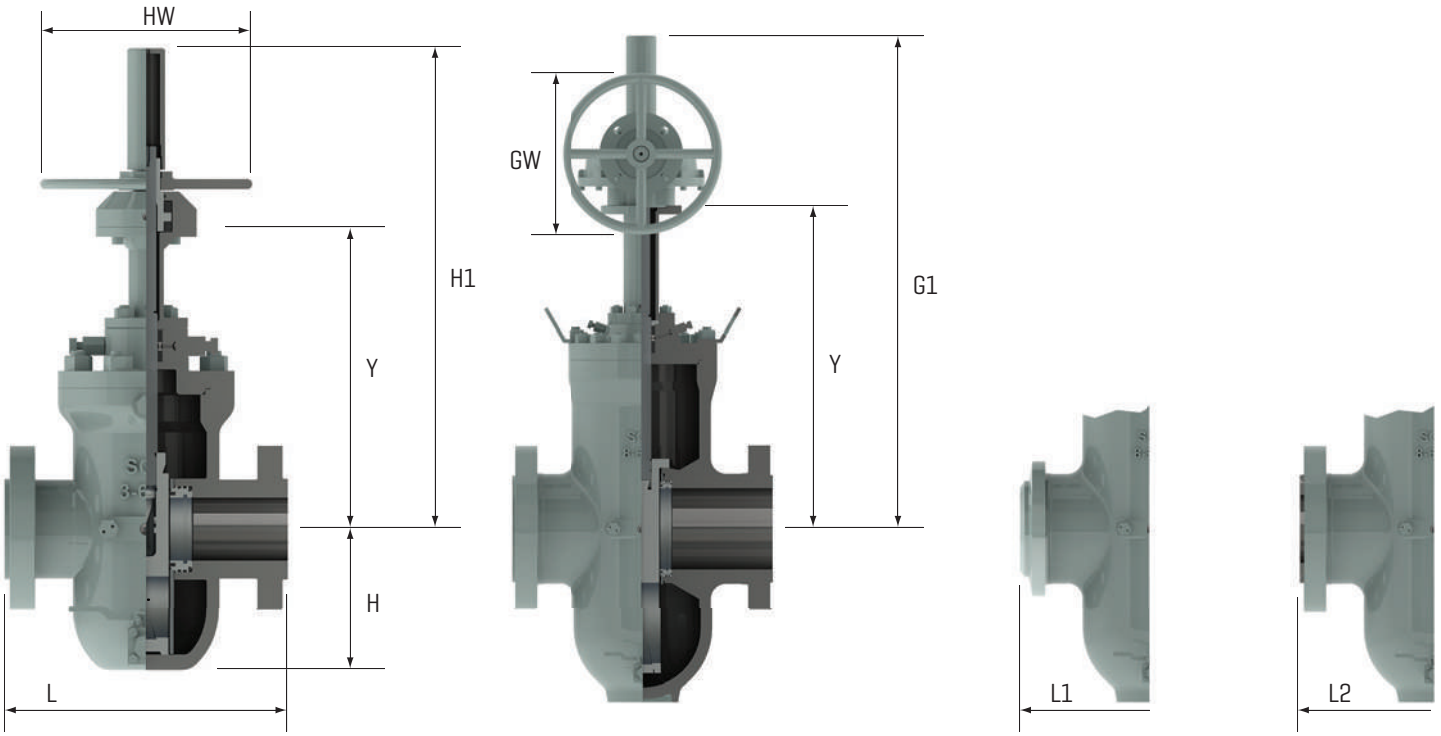
Slab Gate Valve Dimensions
Size: 2” - 10”
Class: 1500



CLASS 1500	SIZE		BORE	END-TO-END			CENTER-TO-BOTTOM	CENTER-TO-TOP OF YOKE	HANDWHEEL OPERATED		GEAR OPERATED		WEIGHTS LBS/KG
			F	RF - L	BW - L1	RTJ - L2	H	Y	H1	HW	G1	GW	
	IN	2	2.06	14.50	14.50	14.62	6.0	12.2	19.1	12.0	19.1	12.0	216
	MM	50	52	368	368	371	152	310	485	305	485	305	98
	IN	4	4.06	18.00	18.00	18.12	10.3	20.5	31.4	12.0	31.4	12.0	403
	MM	100	103	457	457	460	262	521	798	305	798	305	183
	IN	6	6.06	24.00	24.00	24.12	13.1	25.8	39.2	18.0	39.2	18.0	800
	MM	150	154	610	610	613	333	665	996	457	996	457	363
	IN	8	8.06	29.00	29.00	29.12	17.5	31.9	48.5	18.0	48.5	18.0	1346
	MM	200	205	737	737	740	445	810	1232	457	1232	457	611
	IN	10	10.06	33.00	33.00	33.12	21.8	38.0	57.6	18.0	57.6	18.0	2380
	MM	250	256	838	838	841	554	965	1463	457	1463	457	1080

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

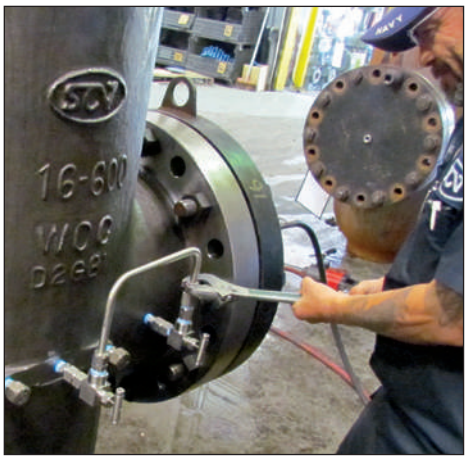


CLASS 1500	SIZE		BORE	END-TO-END			CENTER-TO-BOTTOM	CENTER-TO-TOP OF YOKE	HANDWHEEL OPERATED		GEAR OPERATED		WEIGHTS LBS/KG
			F	RF - L	BW - L1	RTJ - L2	H	Y	H1	HW	G1	GW	
	IN	2	2.06	14.50	14.50	14.62	6.0	12.2	20.2	12.0	20.2	12.0	216
	MM	50	52	368	368	371	152	310	513	305	513	305	98
	IN	4	4.06	18.00	18.00	18.12	10.3	20.5	31.4	12.0	31.4	12.0	403
	MM	100	103	457	457	460	262	521	798	305	798	305	183
	IN	6	6.06	24.00	24.00	24.12	13.1	25.8	39.2	18.0	39.2	18.0	800
	MM	150	154	610	610	613	333	665	996	457	996	457	363
	IN	8	8.06	29.00	29.00	29.12	17.5	31.9	46.6	24.0	46.6	24.0	2242
	MM	200	205	737	737	740	445	810	1184	610	1184	610	1017
	IN	10	10.06	/	/	39.38	22.6	38.0	58.5	24.0	58.5	24.0	4086
	MM	250	256	/	/	1000	574	965	1486	610	1486	610	1853

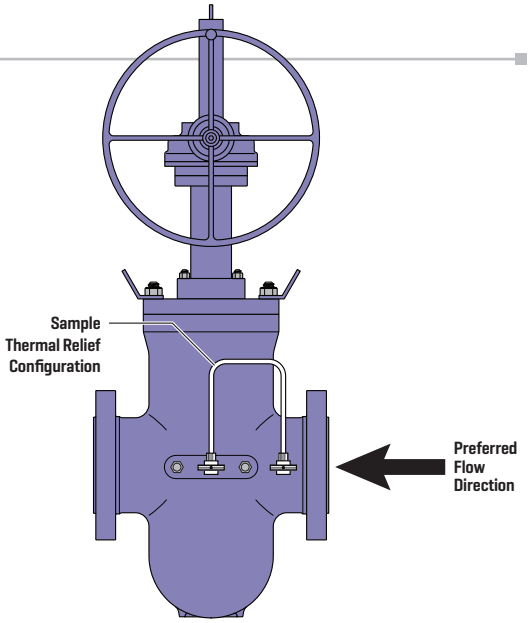
Note: SCV reserves the right to change any technical design and dimensional data without prior notice. Please contact SCV to confirm all Dimensions and Data offered in this catalog. Larger sizes can be engineered if needed.

Expanding Gate Thermal Relief System

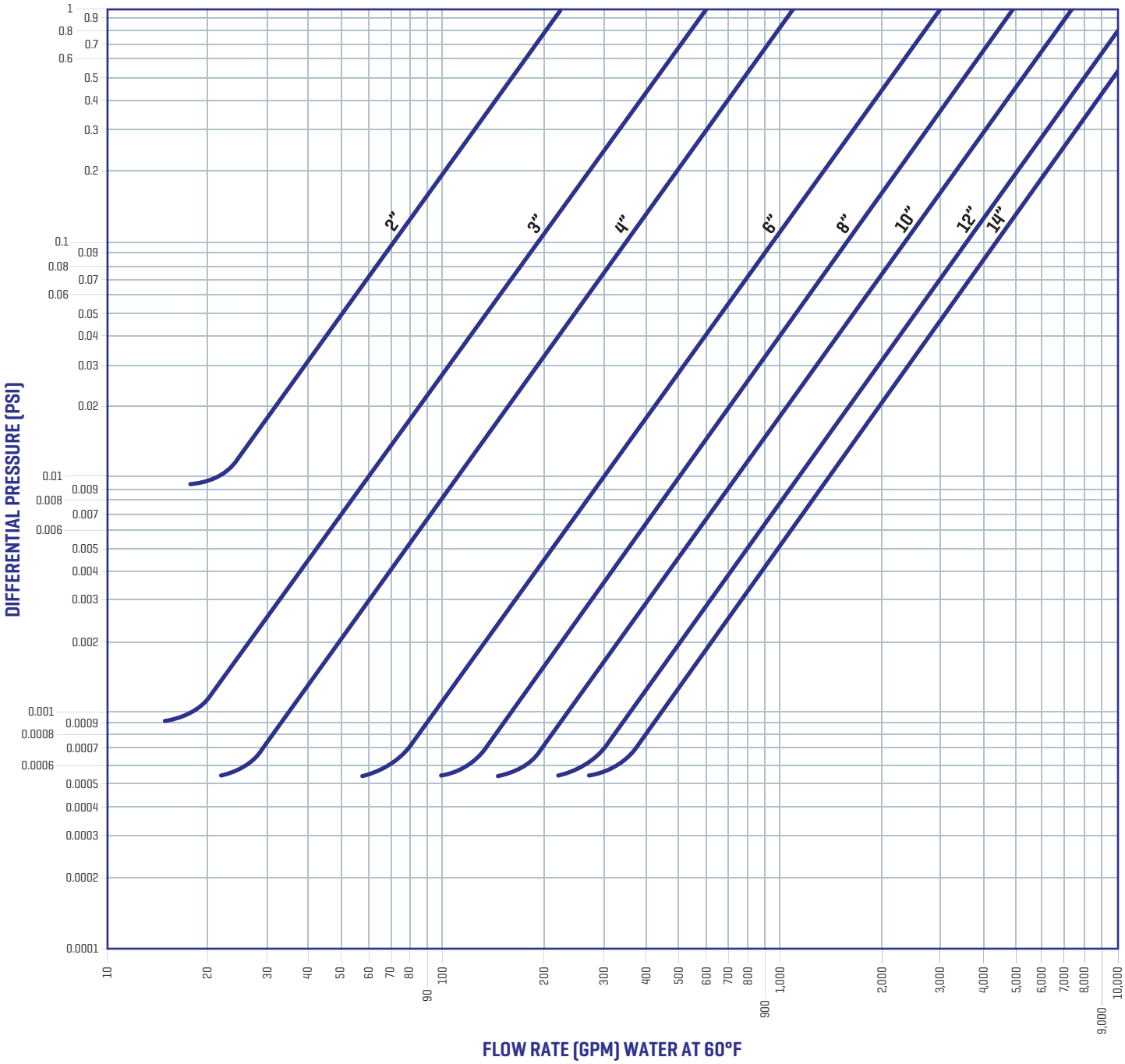
With the expanding gate design, it is possible for Thermal Expansion to occur within the body cavity while the valve is in the closed position. A Thermal Relief system allows the body cavity to relieve into the upstream side of the valve.



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.

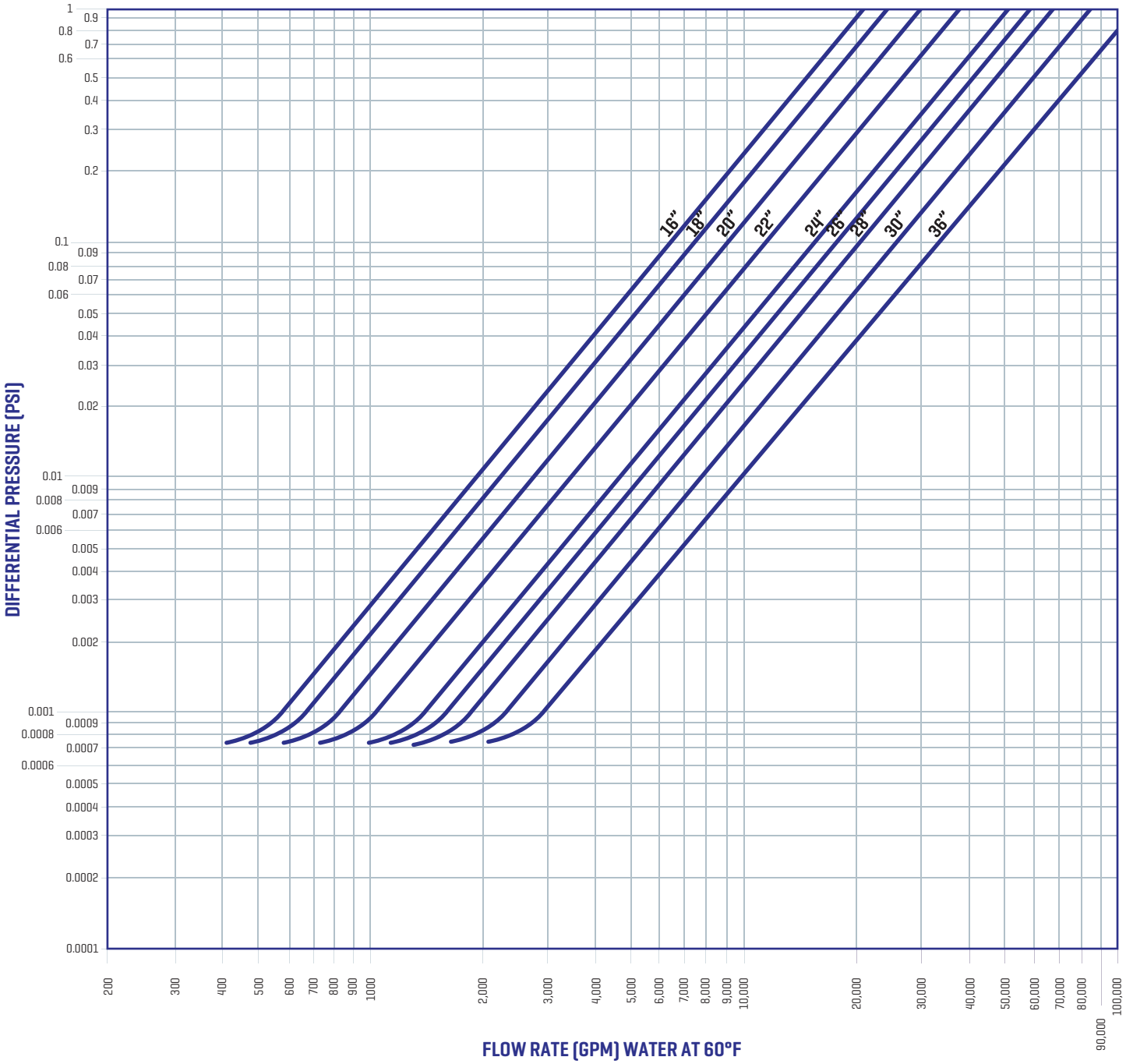
Flow Coefficient for Fully Open Valves	
2	228
3	601
4	1,108
6	3,000
8	5,000
10	7,560
12	11,547
14	13,416

Glossary of Terms	
Q	Flow Rate, Liquids - GPM
Cv	Flow Coefficient
P_1	Inlet Pressure
P_2	Outlet Pressure
▪P	Pressure Drop (P_1 - P_2)
G	Specific Gravity (Water = 1)

Liquid (Incompressible Flow)

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

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	
Q	Flow Rate, Liquids - GPM
Cv	Flow Coefficient
P_1	Inlet Pressure
P_2	Outlet Pressure
▪P	Pressure Drop (P_1 - P_2)
G	Specific Gravity (Water = 1)

Liquid (Incompressible Flow)

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

Seal & Seat Pressure Temperature Chart

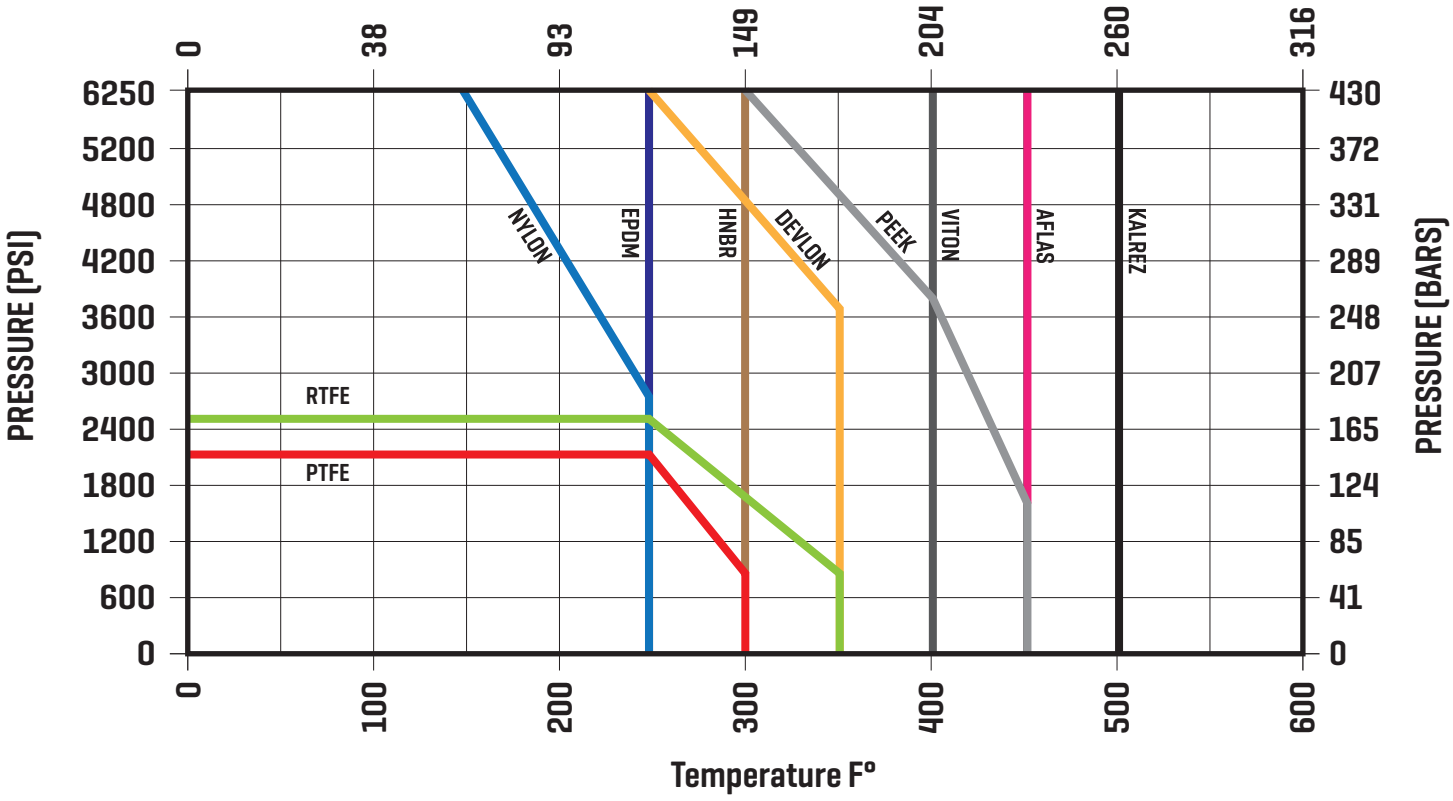
This chart depicts pressure and temperature ratings for common plastics and elastomers used in SCV Valve products.

SCV VALVE SOFT GOOD CHEMICAL COMPATIBILITY

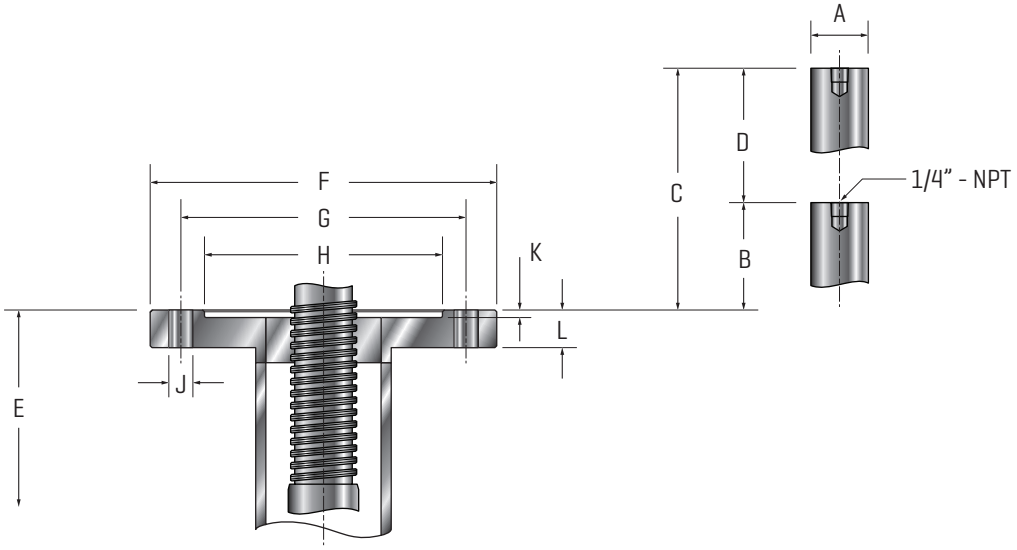
	SEAL MATERIAL			SEAT MATERIAL			
	Viton	HNBR	Kalrez	RTFE	Nylon	Devlon	PEEK
Amines	X	X	●	●	X	X	●
Ammonia	X	X	●	●	●	●	●
Butane	●	●	●	●	●	●	●
Carbon Dioxide	●	●	●	●	●	●	●
Crude Oil	●	●	●	●	●	●	●
Ethane	●	●	●	●	X	X	●
Ethylene	●	●	●	●	●	●	●
Glycol	●	●	●	●	●	X	●
Hydrocarbon	●	●	●	●	●	●	●
Hydrogen	●	●	●	●	●	●	●
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	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	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 0.50	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 0.50	0.15	0.43	FA10
4	600	1-1/4-5TPI-2G-LH	4.17	9.05	4.88	20.5	2 7.00	5.50	3.98	4 X 0.75	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 0.75	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 0.50	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 0.75	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 0.75	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 0.69	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 0.69	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 0.81	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 0.81	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 0.69	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 0.69	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 0.88	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 0.88	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 0.69	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 0.69	1.85	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 0.75	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 0.75	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 0.75	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 0.75	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 0.69	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 0.75	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 0.75	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 0.75	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 0.75	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 0.75	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 0.81	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 0.75	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 0.88	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 0.75	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 0.88	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 0.88	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-040L-ACME-2G-LH	5.10	19.39	14.29	41.42	6.75	5.50	3.98	4 X 0.69	0.23	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-040L-ACME-2G-LH	6.10	22.28	16.18	46.79	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**	**290**
	200	260	260	260	260	255	260	260	260	260	260	235	235	260	260
	300	230	230	230	230	230	230	230	230	230	230	215	215	230	230
	400	200	200	200	200	200	200	200	200	200	200	195	195	200	200
	500	170	170	170	170	170	170	170	170	170	170	170	170	170	170
	600	140	140	140	140	140	140	140	140	140	140	140	140	140	140
	650	125	125	125	125	125	125	125	125	125	125	125	125	125	125
	700	110	110	110	110	110	110	110	110	110	110	110	110	110	110
	750	95	95	95	95	95	95	95	95	95	95	95	95	95	95
	800	80	80	80	80	80	80	80	80	80	80	80	80	/	/
	850	65	65	65	65	65	65	65	65	65	65	65	65	/	/
	900	50	50	50	50	50	50	50	50	50	50	50	50	/	/
	950	35	35	35	35	35	35	35	35	35	35	35	35	/	/
	1000	20	20	20	20	20	20	20	20	20	20	20	20	/	/
	1050	/	/	/	/	/	20	/	20	20	20	20	20	/	/
	1100	/	/	/	/	/	20	/	20	20	20	20	20	/	/
	1150	/	/	/	/	/	20	/	20	20	20	20	20	/	/
	1200	/	/	/	/	/	15	/	15	20	20	20	20	/	/
	1250	/	/	/	/	/	/	/	/	/	/	20	20	/	/
	1300	/	/	/	/	/	/	/	/	/	/	20	20	/	/
	1350	/	/	/	/	/	/	/	/	/	/	20	20	/	/
	1400	/	/	/	/	/	/	/	/	/	/	20	20	/	/
	1450	/	/	/	/	/	/	/	/	/	/	20	20	/	/
	1500	/	/	/	/	/	/	/	/	/	/	15	15	/	/
300	**Temp. F**	**A105**	**WCB**	**LF2**	**WCC**	**LCB**	**WC6**	**LCC**	**C5**	**C12**	**C12A**	**316**	**CF8M**	**F51**	**F53**
	-20 to 100	740	740	740	750	695	750	750	750	750	750	720	720	750	750
	200	680	680	680	750	660	750	750	750	750	750	620	620	745	745
	300	655	655	655	730	640	720	730	730	730	730	560	560	665	665
	400	635	635	635	705	615	695	705	705	705	705	515	515	615	615
	500	605	605	605	665	585	665	665	665	665	665	480	480	580	580
	600	570	570	570	605	550	605	605	605	605	605	450	450	555	555
	650	550	550	550	590	535	590	590	590	590	590	440	440	545	545
	700	530	530	530	555	510	570	555	570	570	570	435	435	540	540
	750	505	505	505	505	475	530	505	530	530	530	425	425	530	530
	800	410	410	410	410	390	510	410	510	510	510	420	420	/	/
	850	320	320	320	320	300	485	320	485	485	485	420	420	/	/
	900	230	230	230	225	200	450	225	375	450	450	415	415	/	/
	950	135	135	135	135	135	320	135	275	375	385	385	385	/	/
	1000	85	85	85	85	85	215	85	200	255	365	365	365	/	/
	1050	/	/	/	/	/	145	/	145	170	360	160	160	/	/
	1100	/	/	/	/	/	95	/	100	115	300	305	305	/	/
	1150	/	/	/	/	/	65	/	60	75	225	235	235	/	/
	1200	/	/	/	/	/	40	/	35	50	145	185	185	/	/
	1250	/	/	/	/	/	/	/	/	/	/	145	145	/	/
	1300	/	/	/	/	/	/	/	/	/	/	115	115	/	/
	1350	/	/	/	/	/	/	/	/	/	/	95	95	/	/
	1400	/	/	/	/	/	/	/	/	/	/	75	75	/	/
	1450	/	/	/	/	/	/	/	/	/	/	60	60	/	/
	1500	/	/	/	/	/	/	/	/	/	/	40	40	/	/

Pressure Temperature Ratings - ASME B16.34

Note: Pressures in PSI

600

Temp. F	A105	WCB	LF2	WCC	LCB	WC6	LCC	C5	C12	C12A	316	CF8M	F51	F53
-20 to 100	1480	1480	1480	1500	1395	1500	1500	1500	1500	1500	1440	1440	1500	1500
200	1360	1360	1360	1500	1320	1500	1500	1500	1500	1500	1240	1240	1490	1490
300	1310	1310	1310	1455	1275	1445	1455	1455	1455	1455	1120	1120	1335	1335
400	1265	1265	1265	1405	1230	1385	1405	1410	1410	1410	1025	1025	1230	1230
500	1205	1205	1205	1330	1175	1330	1330	1330	1330	1330	995	995	1160	1160
600	1135	1135	1135	1210	1105	1210	1210	1210	1210	1210	900	900	1115	1115
650	1100	1100	1100	1175	1065	1175	1175	1175	1175	1175	885	885	1095	1095
700	1060	1060	1060	1110	1025	1135	1110	1135	1135	1135	870	870	1085	1085
750	1015	1015	1015	1015	955	1065	1015	1065	1065	1065	855	855	1065	1065
800	825	825	825	825	780	1015	825	1015	1015	1015	845	845	/	/
850	640	640	640	640	595	975	640	975	975	975	835	835	/	/
900	460	460	460	445	405	900	445	745	900	900	830	830	/	/
950	275	275	275	275	275	640	275	550	755	775	775	775	/	/
1000	170	170	170	170	170	430	170	400	505	725	725	725	/	/
1050	/	/	/	/	/	290	/	290	345	720	720	720	/	/
1100	/	/	/	/	/	190	/	200	225	605	610	610	/	/
1150	/	/	/	/	/	130	/	125	150	445	475	475	/	/
1200	/	/	/	/	/	80	/	70	105	290	370	370	/	/
1250	/	/	/	/	/	/	/	/	/	/	295	295	/	/
1300	/	/	/	/	/	/	/	/	/	/	235	235	/	/
1350	/	/	/	/	/	/	/	/	/	/	190	190	/	/
1400	/	/	/	/	/	/	/	/	/	/	150	150	/	/
1450	/	/	/	/	/	/	/	/	/	/	115	115	/	/
1500	/	/	/	/	/	/	/	/	/	/	85	85	/	/

900

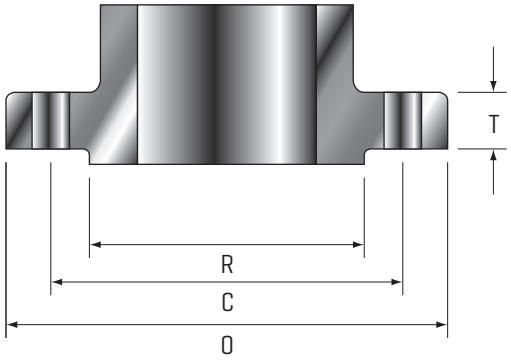
Temp. F	A105	WCB	LF2	WCC	LCB	WC6	LCC	C5	C12	C12A	316	CF8M	F51	F53
-20 to 100	2220	2220	2220	2250	2090	2250	2250	2250	2250	2250	2160	2160	2250	2250
200	2035	2035	2035	2250	1980	2250	2250	2250	2250	2250	1860	1860	2230	2230
300	1965	1965	1965	2185	1915	2165	2185	2185	2185	2185	1680	1680	2000	2000
400	1900	1900	1900	2110	1845	2080	2110	2115	2115	2115	1540	1540	1845	1845
500	1810	1810	1810	1995	1760	1995	1995	1995	1995	1995	1435	1435	1740	1740
600	1705	1705	1705	1815	1655	1815	1815	1815	1815	1815	1355	1355	1670	1670
650	1650	1650	1650	1765	1600	1765	1765	1765	1765	1765	1325	1325	1640	1640
700	1590	1590	1590	1665	1535	1705	1665	1705	1705	1705	1305	1305	1625	1625
750	1520	1520	1520	1520	1430	1595	1520	1595	1595	1595	1280	1280	1595	1595
800	1235	1235	1235	1235	1175	1525	1235	1525	1525	1525	1265	1265	/	/
850	955	955	955	955	895	1460	955	1460	1460	1460	1255	1255	/	/
900	690	690	690	670	605	1350	670	1120	1350	1350	1245	1245	/	/
950	410	410	410	410	410	955	410	825	1130	1160	1160	1160	/	/
1000	255	255	255	255	255	650	255	595	760	1090	1090	1090	/	/
1050	/	/	/	/	/	430	/	430	515	1080	1080	1080	/	/
1100	/	/	/	/	/	290	/	300	340	905	915	915	/	/
1150	/	/	/	/	/	195	/	185	225	670	710	710	/	/
1200	/	/	/	/	/	125	/	105	155	430	555	555	/	/
1250	/	/	/	/	/	/	/	/	/	/	440	440	/	/
1300	/	/	/	/	/	/	/	/	/	/	350	350	/	/
1350	/	/	/	/	/	/	/	/	/	/	290	290	/	/
1400	/	/	/	/	/	/	/	/	/	/	225	225	/	/
1450	/	/	/	/	/	/	/	/	/	/	175	175	/	/
1500	/	/	/	/	/	/	/	/	/	/	125	125	/	/

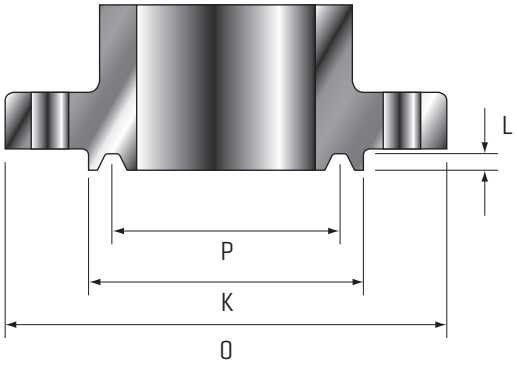
Pressure Temperature Ratings - ASME B16.34

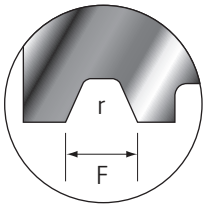
Note: Pressures in PSI

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

Flange Dimensions - ANSI B16.5 & B16.47



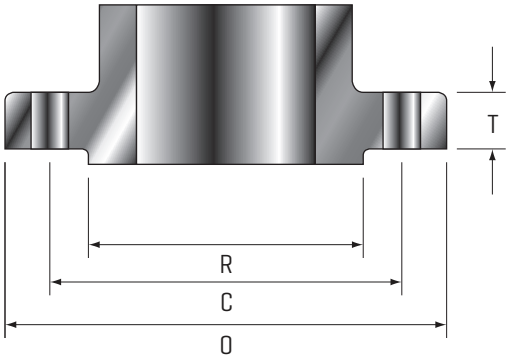


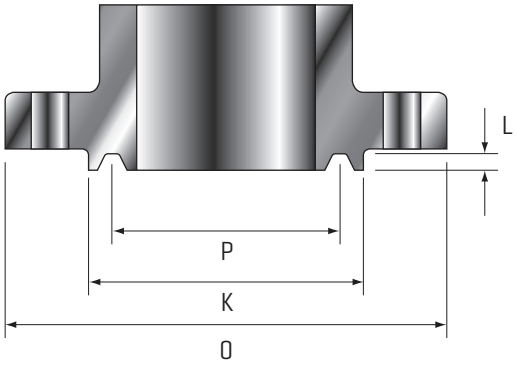


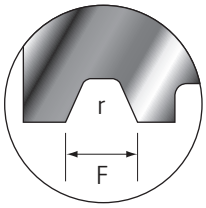
Groove Detail

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	
150	2	6.00	0.75	3.62	4.75	4	0.75	4.00	3.250	0.250	0.344	0.03	R22
	2.5	7.00	0.88	4.12	5.50	4	0.75	4.75	4.000	0.250	0.344	0.03	R25
	3	7.50	0.94	5.00	6.00	4	0.75	5.25	4.500	0.250	0.344	0.03	R29
	4	9.00	0.94	6.19	7.50	8	0.75	6.75	5.875	0.250	0.344	0.03	R36
	6	11.00	1.00	8.50	9.50	8	0.88	8.62	7.625	0.250	0.344	0.03	R43
	8	13.50	1.12	10.62	11.75	8	0.88	10.75	9.750	0.250	0.344	0.03	R48
	10	16.00	1.19	12.75	14.25	12	1.00	13.00	12.000	0.250	0.344	0.03	R52
	12	19.00	1.25	15.00	17.00	12	1.00	16.00	15.000	0.250	0.344	0.03	R56
	14	21.00	1.38	16.25	18.75	12	1.12	16.75	15.625	0.250	0.344	0.03	R59
	16	23.50	1.44	18.50	21.25	16	1.12	19.00	17.875	0.250	0.344	0.03	R64
	18	25.00	1.56	21.00	22.75	16	1.25	21.50	20.375	0.250	0.344	0.03	R68
	20	27.50	1.69	23.00	25.00	20	1.25	23.50	22.000	0.250	0.344	0.03	R72
	22	29.50	1.81	25.25	27.25	20	1.38	/	/	/	/	/	/
	24	32.00	1.88	27.25	29.50	20	1.38	28.00	26.500	0.250	0.344	0.03	R76
	26	34.25	2.69	29.50	31.75	24	1.38	/	29.500	0.500	0.781	0.060	R93
	28	36.50	2.81	31.50	34.00	28	1.38	/	31.500	0.500	0.781	0.060	R94
	30	38.75	2.94	33.75	36.00	28	1.38	/	33.750	0.500	0.781	0.060	R95
	32	41.75	3.19	36.00	38.50	28	1.62	/	36.000	0.562	0.906	0.060	R96
	34	43.75	3.25	38.00	40.50	32	1.62	/	38.000	0.562	0.906	0.060	R97
	36	46.00	3.56	40.25	42.75	32	1.62	/	40.250	0.562	0.906	0.060	R98
300	2	6.50	0.88	3.62	5.00	8	0.75	4.25	3.250	0.312	0.469	0.03	R23
	2.5	7.50	1.00	4.12	5.88	8	0.88	5.00	4.000	0.312	0.469	0.03	R26
	3	8.25	1.12	5.00	6.62	8	0.88	5.75	4.875	0.312	0.469	0.03	R31
	4	10.00	1.25	6.19	7.88	8	0.88	6.88	5.875	0.312	0.469	0.03	R37
	6	12.50	1.44	8.50	10.62	12	0.88	9.50	8.312	0.312	0.469	0.03	R45
	8	15.00	1.62	10.62	13.00	12	1.00	11.88	10.625	0.312	0.469	0.03	R49
	10	17.50	1.88	12.75	15.25	16	1.12	14.00	12.750	0.312	0.469	0.03	R53
	12	20.50	2.00	15.00	17.75	16	1.25	16.25	15.000	0.312	0.469	0.03	R57
	14	23.00	2.12	16.25	20.25	20	1.25	18.00	16.500	0.312	0.469	0.03	R61
	16	25.50	2.25	18.50	22.50	20	1.38	20.00	18.500	0.312	0.469	0.03	R65
	18	28.00	2.38	21.00	24.75	24	1.38	22.62	21.000	0.312	0.469	0.03	R69
	20	30.50	2.50	23.00	27.00	24	1.38	25.00	23.000	0.375	0.531	0.06	R73
	22	33.00	2.62	25.25	29.25	24	1.62	27.00	25.000	0.438	0.594	0.06	R81
	24	36.00	2.75	27.25	32.00	24	1.62	29.50	27.250	0.438	0.656	0.06	R77
	26	38.25	3.31	29.50	34.50	28	1.75	31.88	29.500	0.500	0.781	0.06	R93
	28	40.75	3.56	31.50	37.00	28	1.75	33.88	31.500	0.500	0.781	0.06	R94
	30	43.00	3.75	33.75	39.25	28	1.88	36.12	33.750	0.500	0.781	0.06	R95
	32	45.25	3.94	36.00	41.50	28	2.00	38.75	36.000	0.562	0.906	0.06	R96
	34	47.50	4.12	38.00	43.50	28	2.00	40.75	38.000	0.562	0.906	0.06	R97
	36	50.00	4.38	40.25	46.00	32	2.12	43.00	40.250	0.562	0.906	0.06	R98

Flange Dimensions - ANSI B16.5 & B16.47







Groove Detail

Class	Size	Flg. Dia.	Flg. Thick.	Raised Face Dia.	Drilling			Face Dia.	Ring Joint				
					Bolt CIrcle Dia.	# of Bolts	Hole Dia.		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

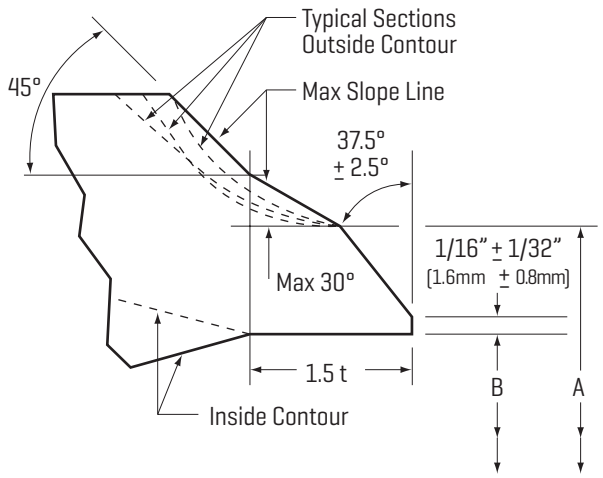
Butt-welding Dimensions - ANSI B16.25

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

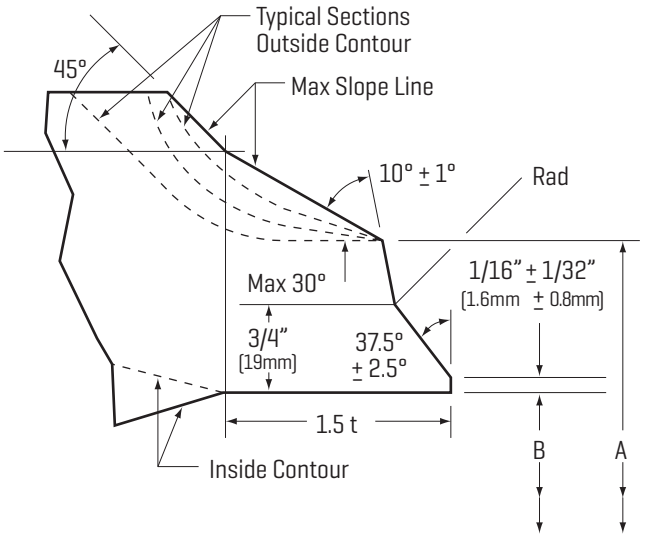
Plain Bevel Butt-welding End for Pipe Wall Thickness is 7/8" (22.23mm) or less.

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



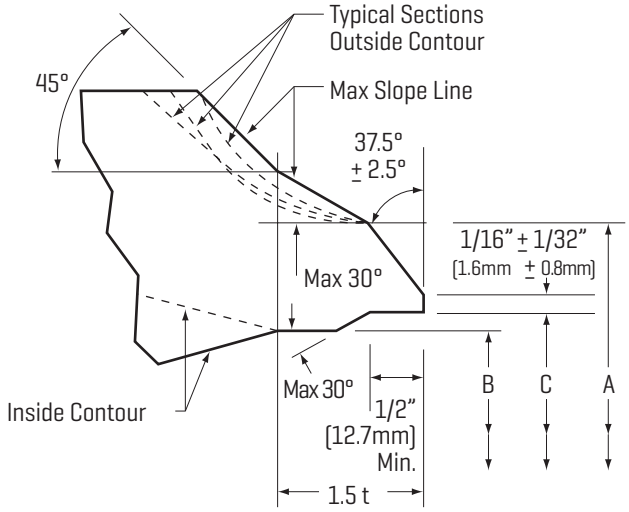
Compound Bevel Butt-welding End for Pipe Wall Thickness Greater than 7/8" (22.23mm).

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



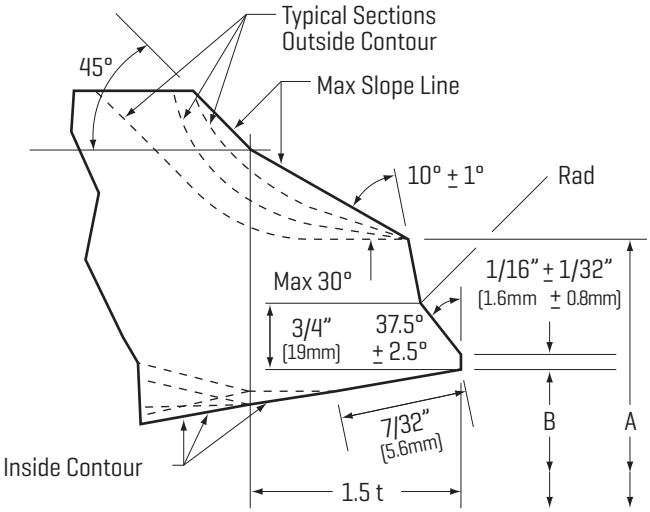
Plain Bevel Butt-welding End for Pipe Wall Thickness is 7/8" (22.23mm) or less.

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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Sincerely,

Sid McCarra
President
SCV Valve, LLC

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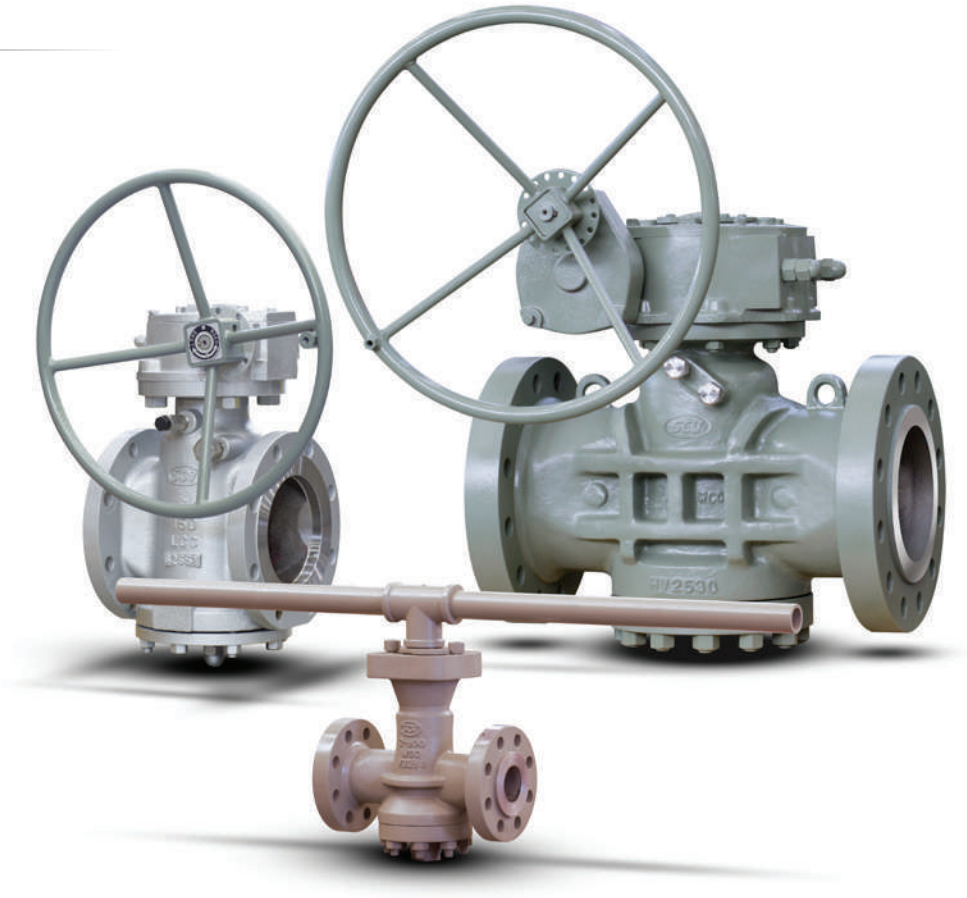
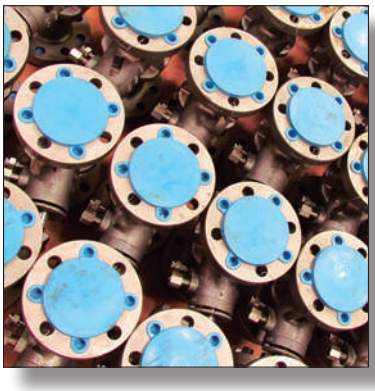
Short Pattern
Regular Pattern
Venturi Pattern

Class: 150 - 2500
Sizes: 1/2" - 36"



SCV VALVE



SCV VALVE manufactures some of the most dependable cast and forged steel Pressure Balance Lubricated Valves in the industry. SCV Valve Lubricated Type Plug Valves are available in Short, Regular, and Venturi Pattern. The different patterns vary as regards end to end dimension and port area for a given size of valve. Regular Pattern valves have the largest port area. Short Pattern valves have a reduced port area as a consequence of their compact face-to-face dimensions which are identical to those for wedge gate valves. Venturi Pattern valves have a reduced port area and a flow path approximating a venturi shape to aid pressure recovery. The valve designs conform to API 599, API 6D, and B16.34. Face-to-face and end-to-end dimensions conform to ANSI B16.10.

Innovative Valve Solutions.®

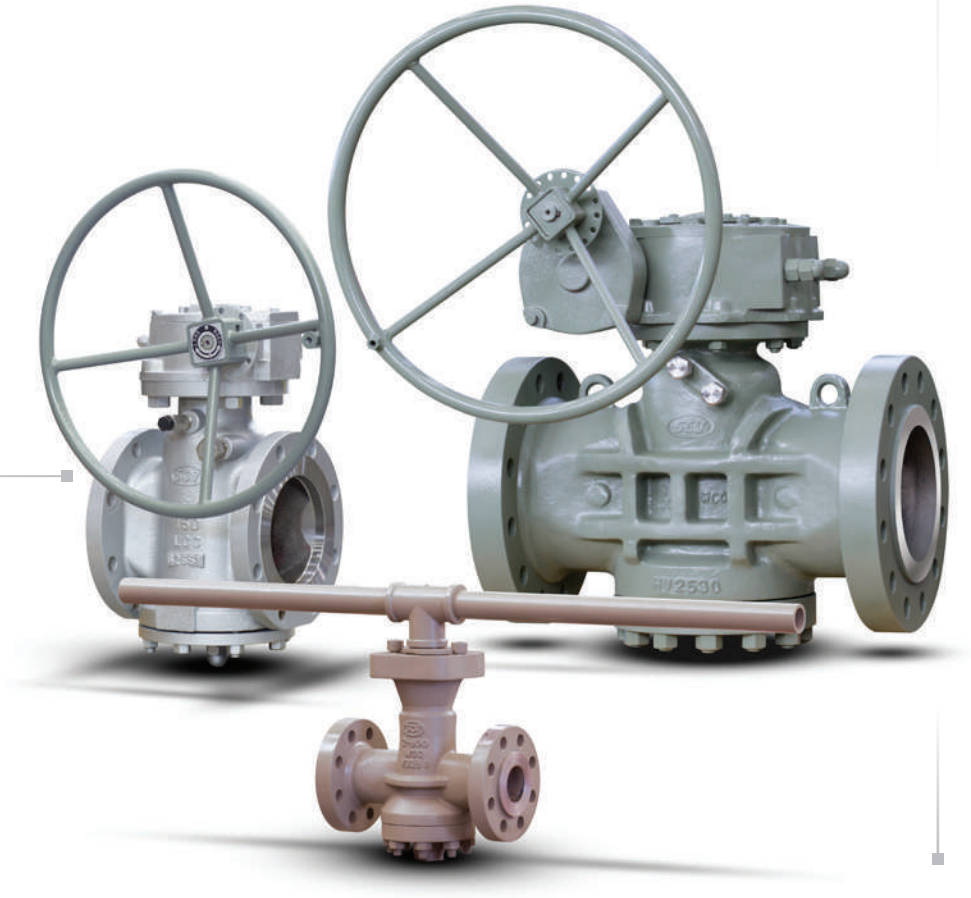
SCV Pressure Balanced Lubricated Plug Valves

[Product Preview]

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

Pressure Balanced Lubricated Plug Valves - API 6D

- Basic Design: API 6D
- Wall Thickness: API 6D
- Face-to-Face Dimension: API 6D
- Flange End Dimension: API 6D
- Inspection & Testing: API 6D
- Fire Safe Design: API 6FA/BS 6755



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.

SCV VALVE

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.

Table of Contents

Complete Product Line

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

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.

Bore Coating: Scotchkote™ 134

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

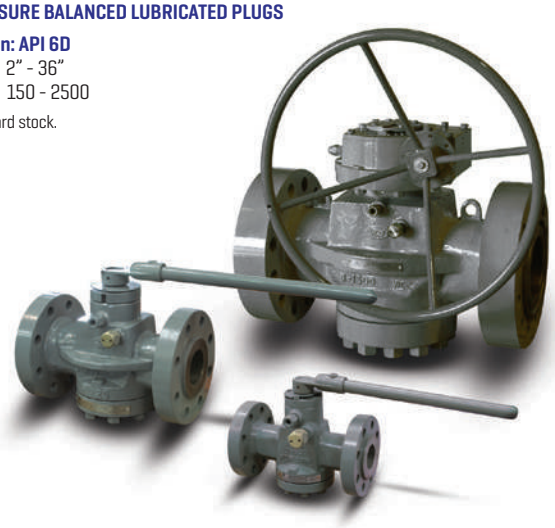
Design: B16.34
Sizes: 1/2" - 12"
Class: 150 - 1500

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

Certificate of Authority to use the Official API Monogram
License Number: 6A-1190 ORIGINAL

The American Petroleum Institute hereby grants to

SCV VALVE
3521 FM 646 Road North
Santa Fe, TX

the right to use the Official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1® and API-6A and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: 6A-1190

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

The scope of this license includes the following: Valves at PSL 1, PSL 2

QMS Exclusions: No Exclusions Identified as Applicable

Effective Date: DECEMBER 6, 2019
Expiration Date: DECEMBER 6, 2022

To verify the authenticity of this license, go to www.api.org/compositelist.

Vice President of Global Industry Services

American Petroleum Institute

Note: Extension letter availavle on our website.

API 6D Certification

Certificate of Authority to use the Official API Monogram
License Number: 6D-1099 ORIGINAL

The American Petroleum Institute hereby grants to

SCV VALVE
3521 FM 646 Road North
Santa Fe, TX

the right to use the Official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1® and API-6D and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: 6D-1099

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

The scope of this license includes the following: Check Valves, Ball Valves, Plug Valves and Gate Valves

QMS Exclusions: No Exclusions Identified as Applicable

Effective Date: DECEMBER 6, 2019
Expiration Date: DECEMBER 6, 2022

To verify the authenticity of this license, go to www.api.org/compositelist.

Vice President of Global Industry Services

American Petroleum Institute

Note: Extension letter availavle on our website.

ISO 9001:2015 Certificate

ABS Quality Evaluations
Certificate Of Conformance
This is to certify that the Quality Management System of:
SCV Valve, LLC
3521 FM 646 Road North
Santa Fe, TX 77510
U.S.A.

has been assessed by ABS Quality Evaluations, Inc. and found to be in conformance with the requirements set forth by:
ISO 9001:2015
The Quality Management System is applicable to:

ENGINEERING, MANUFACTURING, SALES, AND SERVICE OF HIGH PERFORMANCE VALVE PRODUCTS.
PRODUCT RANGE INCLUDES ALL SEVERE SERVICE & HIGH PRESSURE APPLICATIONS

This certificate may be found on the ABS QE Website (www.abs-qe.com). For certificates issued in the People's Republic of China information may also be verified on the CNCA website (www.cnca.gov.cn)

Certificate No: 44703
Certification Date: 16 June 2010
Effective Date: 16 May 2019
Expiration Date: 15 June 2022
Revision Date: 16 May 2019

Dominic Townsend, President

Validity of this certificate is based on the successful completion of the periodic surveillance audits of the management system defined by the above scope and is contingent upon prompt written notification to ABS Quality Evaluations, Inc. of significant changes to the management system or components thereof.
ABS Quality Evaluations, Inc. 3701 City Plaza Drive, Spring, TX 77389, U.S.A.
Validity of this certificate may be confirmed at www.abs-qe.com/cert_validation.
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CE PED Certificate

HPi VS
HPi Verification Services

Certificate of Quality System Approval

This is to certify that the product listed below conforms to the requirements of the
Pressure Equipment Directive 2014/68/EU
Annex III Module H

Certificate Number: HPVS/P1012-055-Q-04
Date of Issue: 17-Jul-2019
Date of Expiry: 23-Jun-2022
Surveillance due: 23-Jun-2020
Manufacturer: SCV Valve LLC
3521 FM 646 Road North, Santa Fe
Texas 77510

Description of Pressure Equipment: Ball valves, Check valves, Gate valves, Globe valves and Plug valves – Range: 1/2" – 48" Class 150 through 2500
Equipment Identification: CE plate for Cat I to III
Other Certification: ABSQE ISO 9001 cert 44703
Standards Applied: API 6A 2010, API 6D 2014
Report Reference: HPVS/P1012-055-4

This Certificate is valid in any European Economic Area Member State.
This Report has been issued by HPi Verification Services Ltd. which is a body notified to the European Commission according to the provisions of the Pressure Equipment Directive (Notified Body number 1521).

This Report is issued following the assessment of the documentation and implementation of the Quality System in accordance with the provisions of the quoted Conformity Assessment Module of the above directive. The CE Mark may be affixed to the Pressure Equipment within the scope of approval as described above once the EU 'declaration of conformity' has been signed by the responsible person. The number '1521', being HPi Verification Services Ltd. Notified Body number should also be placed on the equipment dataplate.

Managing Director
Technical Manager

CE

Canadian Registration Number

- Alberta
  - 0C07063.2
- British Columbia
  - 0C07063.21
- New Brunswick
  - 0C07063.27
- New Foundland & Laborador
  - 0C07063.20
- Northwest Territory
  - 0C07063.25
- Novascotia
  - 0C07063.27
- Nunavut
  - 0C07063.2N
- Manitoba
  - 0C07063.24
- Ontario
  - 0C07063.25
- Prince Edward island
  - 0C07063.29
- Yukon
  - 0C07063.2

SCV Figure Number Chart

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

1	2	3	4	5	6	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	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		

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	I = 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

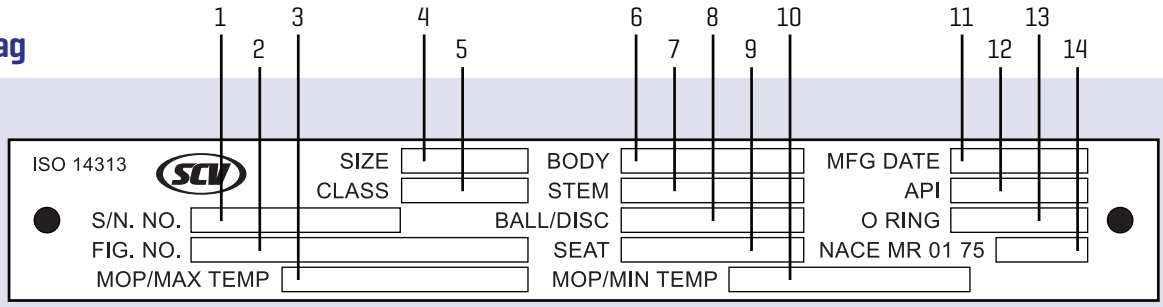
	Figure No. Chart Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Pressure Classes	**Type**	**Size**	**Class**	**Body Conf.**	**Body**	**Obturator**	**End**	**Oper**	**Bore Type**	**Seal**	**Seat.base**	**Seat/Insert**	**Stem**	**Packing**	**Service**
TRUNNION BALL	150, 300, 600	BAL	12	06	B	12	15	R	G	F	H	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 WAFER 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, Coventional 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, Coventional 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 WCB Body, A743 CA15 Obturator, RF Ends, Lever Operated, Coventional 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 WCB Body, A216 WCB + 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 GlobeValve, Bolted A216 WCB 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

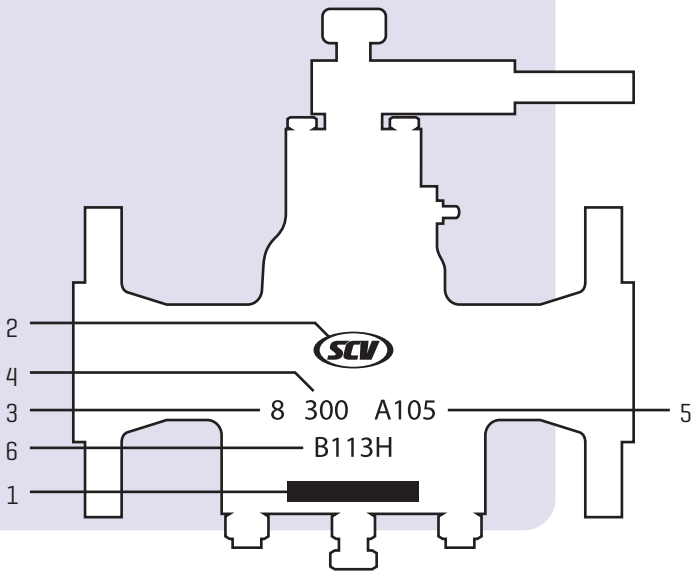
Valve ID Tag



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



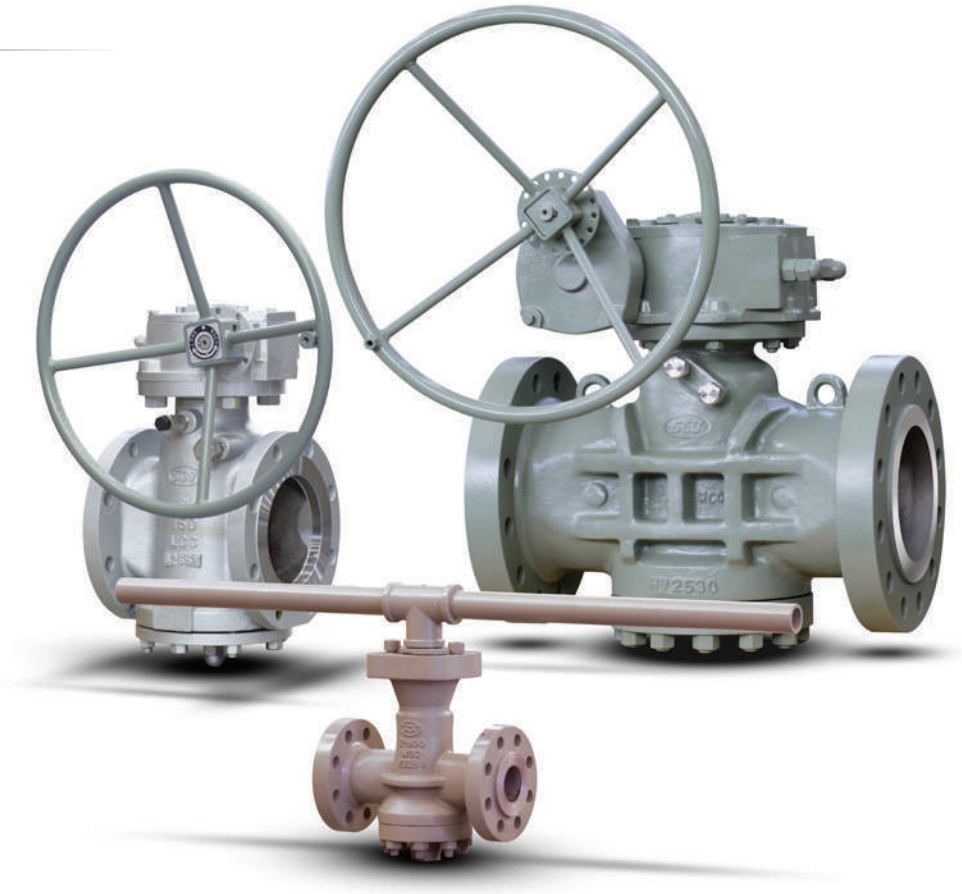
Note: SCV reserves the right to modify our products for improvement without prior notice.

SCV VALVE

Pressure Balanced Lubricated Plug Valves - API 6D

Class: 150 - 2500/Sizes: 2” - 36”

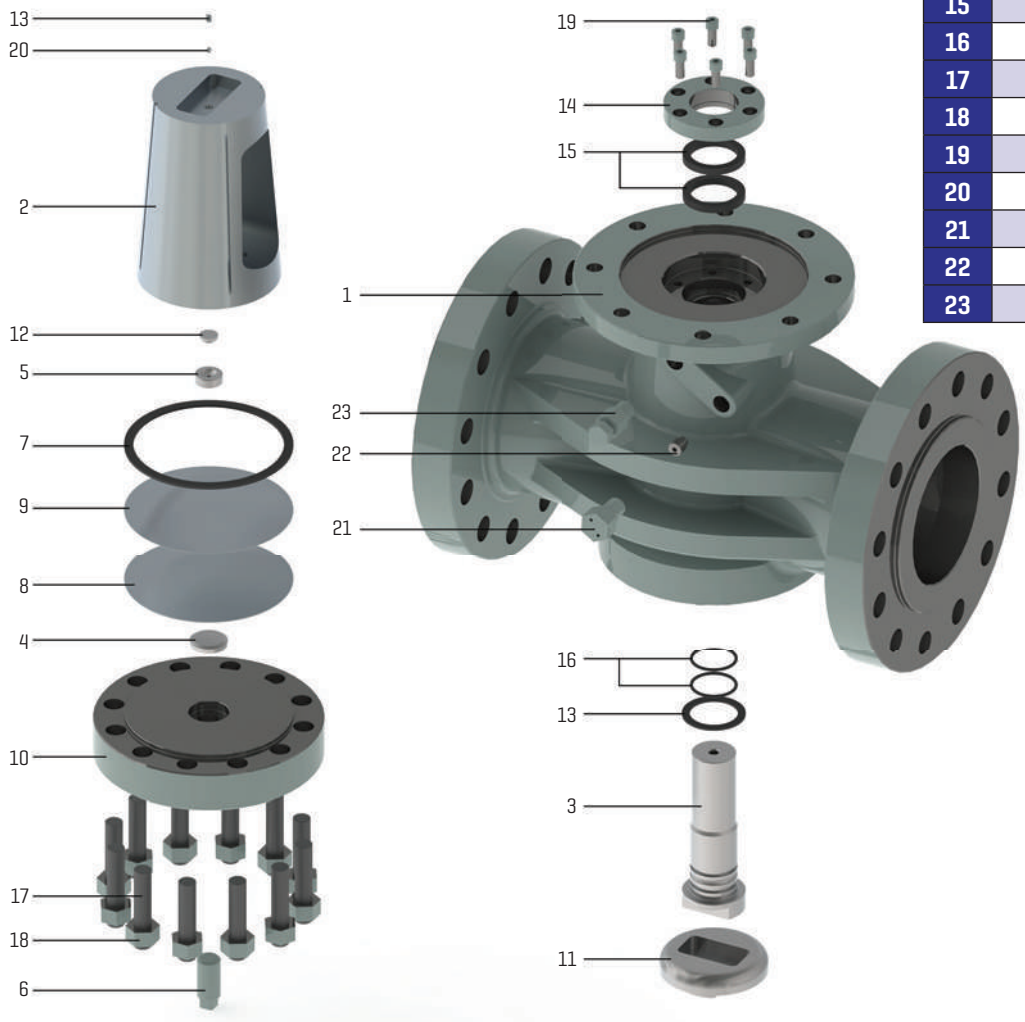
Design and Manufacturing Standards	
Basic Design	API 6D
Wall Thickness	API 6D
Face-to-Face Dimension	API 6D
Flange End Dimension	API 6D
Inspection & Testing	API 6D
Fire Safe Design	API 6FA/BS 6755



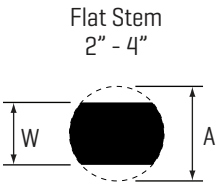
Pressure Balanced Lubricated Plug Valves - API 6D

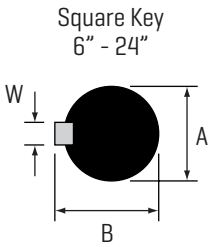
[Expanded View]

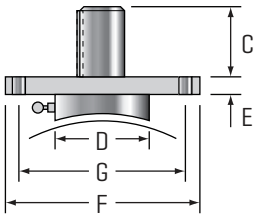
No	Name Of Part
1	Body
2	Plug
3	Stem
4	Adjustment Plate
5	Adjustment Plate Center
6	Adjustment Screw
7	Gasket
8	Gasket Plate A
9	Gasket Plate B
10	Lower Cover Plate
11	Connection Plate
12	Centering Ball
13	Thrust Bearing
14	Gland
15	Packing
16	O-Ring
17	Stud
18	Heavy Hex Nut
19	SHCS
20	Ball
21	Grease Fitting, GBH
22	Ball Check
23	Packing Injection Fitting

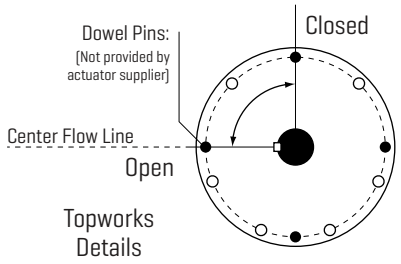


Pressure Balanced Lubricated Plug Valve Mounted Flanges & Stem Torque Information









NPS	CL	ISO 5211 Code	A	B	C	D	E	F Flange Dia.	G Bolt Center	H Stud Size	I Hole Dia.	L No. of Holes	W	Max. Stem Shear Torque N.M.	Break Torque N.M.
2	150	F10	28	/	34	78	17	125	102	M10	11	4	20	409	58
2	300	F10	28	/	34	78	17	125	102	M10	11	4	20	409	101
2	600	F10	28	/	33	78	17	125	102	M10	11	4	20	409	172
3	150	F12	34	/	33	90	19	150	125	M12	13.5	4	24	706	121
3	300	F12	34	/	33	90	19	150	125	M12	13.5	4	24	706	213
3	300	F12	34	37	70	90	19	150	125	M12	13.5	4	10	1141	213
3	600	F12	34	/	33	90	19	150	125	M12	13.5	4	24	706	366
4	150	F14	38	/	39	108	21	175	140	M16	18	4	28	1076	242
4	300	F14	38	/	39	108	21	175	140	M16	18	4	28	1076	435
4	600	F14	38	41	67	108	21	175	140	M16	18	4	10	1616	757
6S	150	F14	42	/	43	105	20	175	140	M16	18	4	30	1379	600
6R	150	F14	42	45	65	105	22	175	140	M16	18	4	12	2180	600
6	300	F16	50	53.5	70	120	22	210	165	M20	22	4	14	3698	1112
6R	600	F25	50	53.5	80	120	25	300	254	M16	18	8	14	3698	2035
8S	150	F16	48	/	49	116	24	210	165	M20	22	4	34	2008	1097
8S	150	F16	48	51.5	80	116	24	210	165	M20	22	4	14	3256	1097
8R	150	F25	52	56	80	116	26	300	254	M16	18	8	16	4122	1280
8S	300	F25	52	56	80	122	26	300	254	M16	18	8	16	4122	2045
8R	300	F25	52	56	90	122	22	300	254	M16	18	8	16	4122	2355
8R	600	F25	62	66	90	150	25	300	254	M16	18	8	16	7025	4505
10S	150	F25	52	56	80	115	26	300	254	M16	18	8	16	4122	1609
10R	150	F25	52	56	80	115	26	300	254	M16	18	8	16	4122	2240
10S	300	F25	62	66	90	130	25	300	254	M16	18	8	16	7025	3038
10R	300	F25	66	70.5	85	150	28	300	254	M16	18	8	20	8445	4418
10R	600	F30	78	83	130	170	28	350	298	M20	22	8	20	14000	8478
10V	600	F25	68	72.5	115	140	25	300	254	M16	18	8	20	9271	5623
12S	150	F25	62	66.4	80	134	20	300	254	M16	18	8	18	7025	2466
12R	150	F25	68	72.5	90	130	23	300	254	M16	18	8	20	9271	3380
12R	300	F30	78	83	130	160	25	350	298	M20	22	8	22	14000	7483
12V	300	F25	68	72.5	90	144	22	300	254	M16	18	8	20	9271	4248
12R	600	F30	90	95	120	168	30	350	298	M20	22	8	25	21680	12801
12V	600	F30	78	83	130	170	28	350	298	M20	22	8	22	14000	8478
14V	150	F25	66	70.5	80	143	25	300	254	M16	18	8	20	8445	2835
14V	300	F25	78	83	120	170	25	300	254	M16	18	8	22	14000	5650
14V	600	F30	90	95	120	170	30	350	298	M20	22	8	25	21680	10930
16V	150	F25	78	83	120	150	26	350	298	M20	22	8	22	14000	4174
16V	300	F30	90	95	120	164	30	350	298	M20	22	8	25	21680	8128
16V	600	F35	98	104	150	190	35	415	356	M30	33	8	28	27914	16393
18V	150	F30	90	95	120	180	26	350	298	M20	22	8	25	21680	5700
18V	300	F35	98	104	150	190	32	415	356	M30	33	8	28	27914	11531
18V	600	F35	108	114	150	200	32	415	356	M30	33	8	28	37740	22472
20v	150	F30	95	100	140	180	32	350	298	M20	22	8	25	25640	8260
20V	300	F35	108	114	150	200	35	415	356	M30	33	8	28	37750	15701
20V	600	F35	118	125	160	210	35	415	356	M30	33	8	32	49089	30554
24V	150	F35	108	114	150	210	35	415	356	M30	33	8	28	37740	14911
24V	300	F35	118	125	160	210	35	415	356	M30	33	8	32	49089	26614
24V	600	F40	138	146	200	250	40	475	406	M36	39	8	36	78915	46757

1. Nominal Torque of the actuator = the break torque * 1.5 (safety coefficient).
2. The torques shown in the table is made out at the max. delt pressure when the valve is closed.
3. An extra torque may be taken into account for different media, on/off frequence and different materials internal parts.

Pressure Balanced Lubricated Plug Valve Range & Index

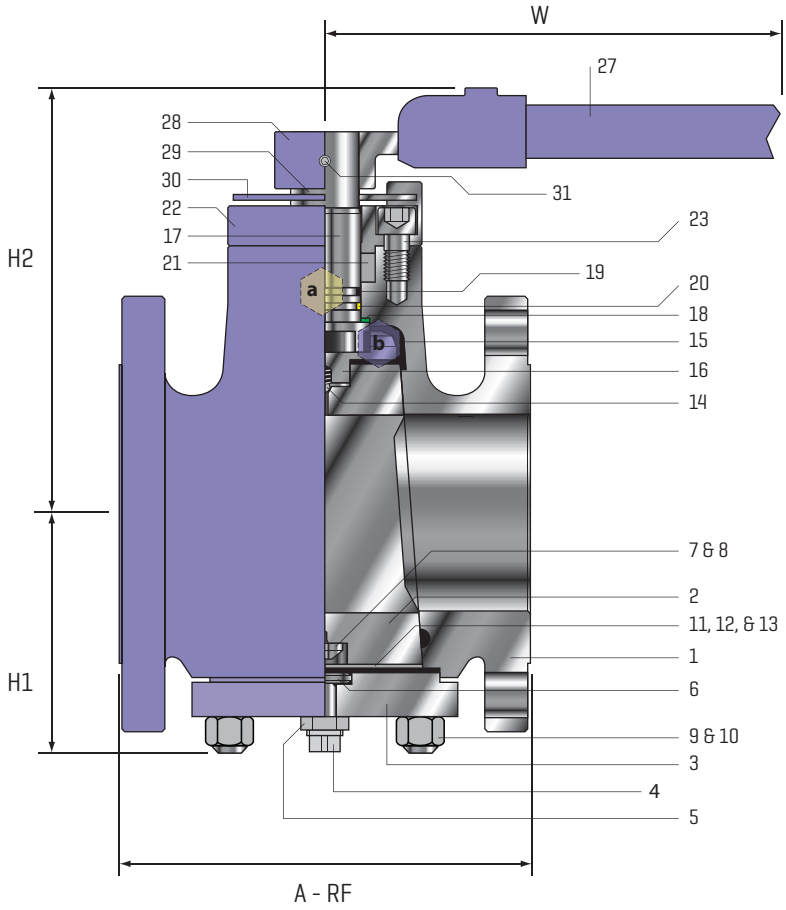
● = Short Pattern

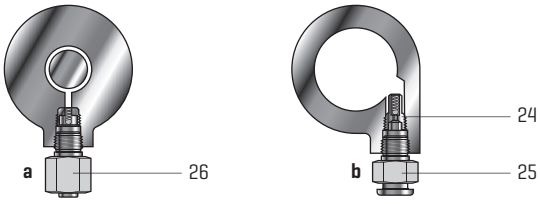
■ = Regular Pattern

▲ = Venturi Pattern

CLASS	150			300			600		900		1500		2500
STYLE	S	R	V	S	R	V	R	V	R	V	R	V	R
2	●			●			■		■		■		■
50													
3	●			●			■		■		■		■
75													
4	●			●			■		■		■		■
100													
6	●	■		●	■		■	▲	■		■		■
150													
8	●	■			■		■	▲	■		■		■
200													
10	●	■			■			▲	■		■		■
250													
12	●	■			■			▲	■		■		■
300													
14			▲			▲		▲		▲		▲	
350													
16			▲			▲		▲		▲		▲	
400													
18			▲			▲		▲		▲		▲	
450													
20			▲			▲		▲		▲			
500													
24			▲			▲		▲		▲			
600													
26			▲			▲							
650													
28			▲			▲							
700													
30			▲			▲							
750													
36			▲			▲							
900													

Short Pattern - Pressure Balanced Lubricated Plug Valves
Size: 2” - 6” Class: 150

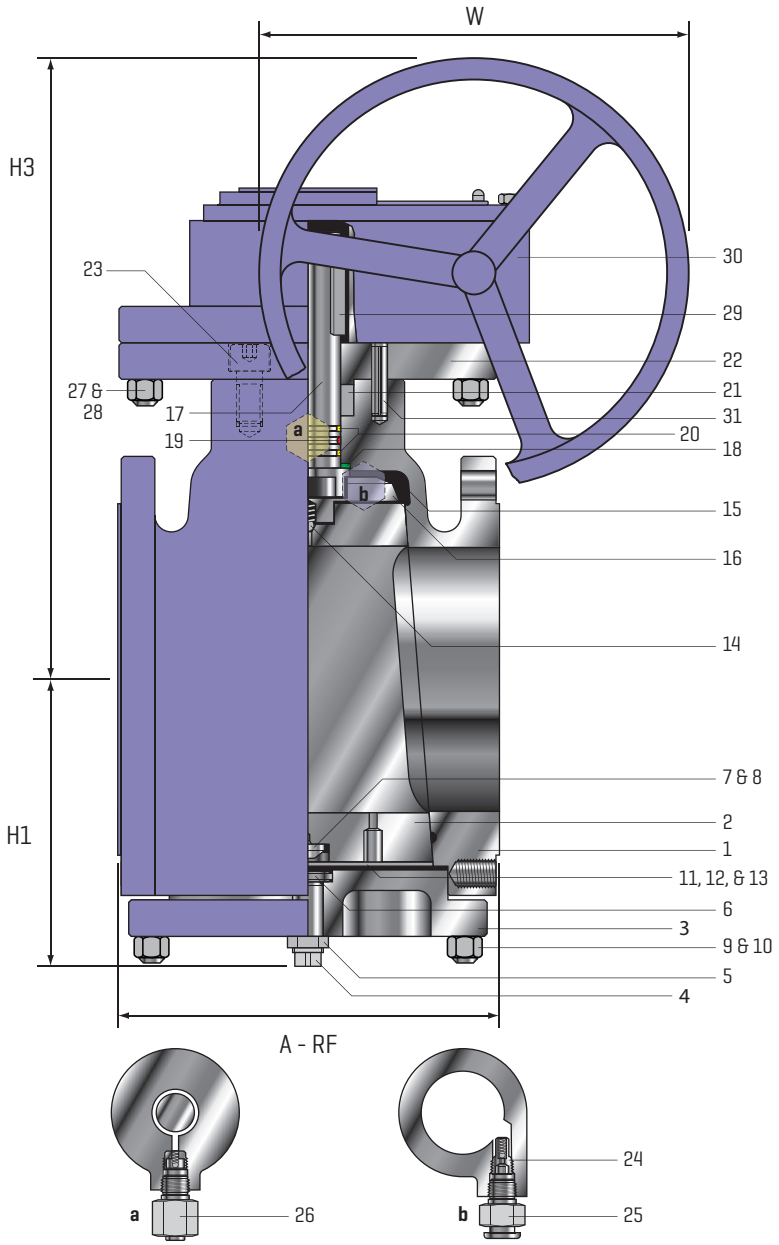




No	Name Of Part	Material
1	Body	A216 WCC
2	Plug	CA15 + Nitriding
3	Bonnet	A105
4	Plug Adjustment Screw	A193 B7M
5	Plug Adjustment Lock Nut	Carbon Steel
6	Lower Pivot Disc	AISI 1035
7	Upper Pivot Disc	AISI 1035
8	Pivot Center	AISI 1035
9	Stud	A193 B7M
10	Nut	A194 2HM
11	Gasket	Flexible Graphite + 304
12	Washer	304SS
13	Steel Spacer	A36
14	Ball Spring Check	304SS
15	Lube/Sealant Reservior	/
16	Stem Plug Adapter	A105
17	Stem	A276 410
18	Thrust Bearing	PTFE
19	Grease Groove	/
20	O Ring	Viton
21	Packing	Flexible Graphite
22	Top Cover	A105 WCC
23	Gland Cap Screw	Carbon Steel
24	Inline Check	Carbon Steel/Stainless Steel
25	Lube/Sealant Injector	Carbon Steel/Stainless Steel
26	Stem Packing Injector	Carbon Steel/Stainless Steel
27	Lever	Carbon Steel
28	Hub	Carbon Steel
29	Indicator Stop Plate	Carbon Steel
30	Stop Plate Retainer	AISI 1566
31	Set Screw	Carbon Steel

CLASS 150	Size		A - RF	H1	H2	W	WGT LBS/KG
	IN	2	7.00	3.84	5.83	14.00	42
	MM	50	178	95	148	350	19
	IN	3	8.00	4.25	6.61	20.00	73
	MM	75	203	108	168	500	33
	IN	4	9.00	5.00	7.91	24.00	115
	MM	100	229	127	201	600	52
	IN	6	10.50	6.65	9.90	32.00	176
	MM	150	267	169	251	800	80

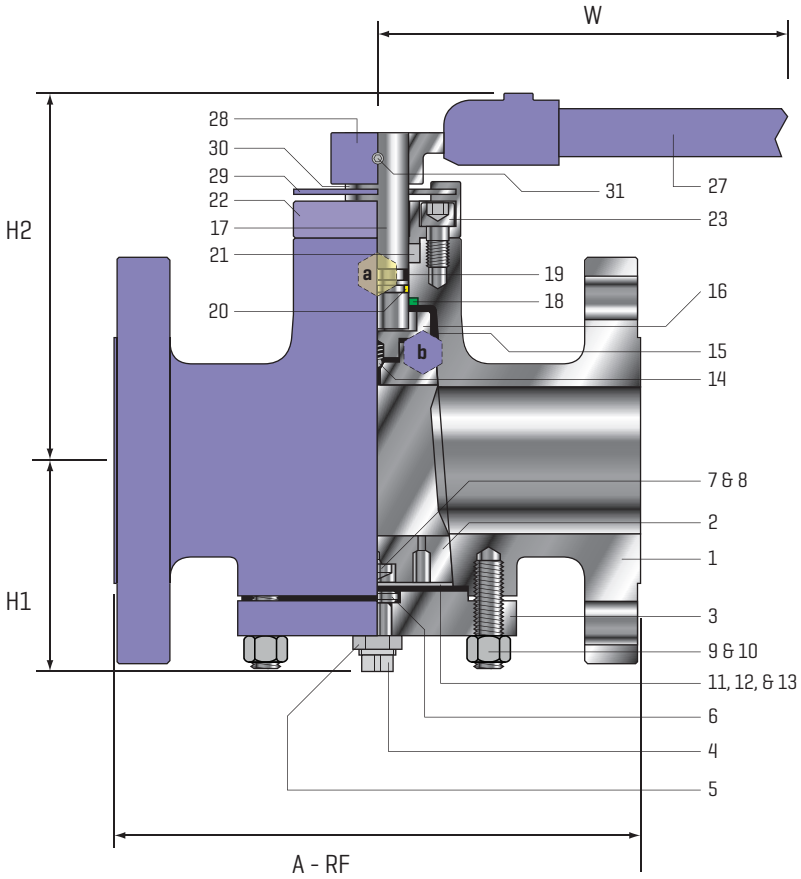
Short Pattern - Pressure Balanced Lubricated Plug Valves
Size: 6” - 12” Class: 150

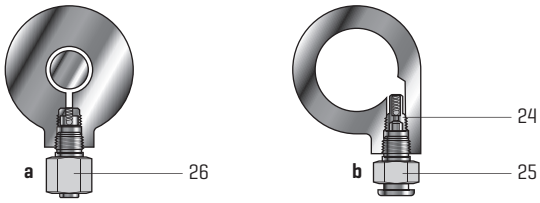


No	Name Of Part	Material
1	Body	A216 WCC
2	Plug	CA15 + Nitriding
3	Bonnet	A105
4	Plug Adjustment Screw	A193 B7M
5	Plug Adjustment Lock Nut	Carbon Steel
6	Lower Pivot Disc	AISI 1035
7	Upper Pivot Disc	AISI 1035
8	Pivot Center	AISI 1035
9	Stud	A193 B7M
10	Nut	A194 2HM
11	Gasket	Flexible Graphite + 304
12	Washer	304SS
13	Steel Spacer	A36
14	Ball Spring Check	304SS
15	Lube/Sealant Reservior	/
16	Stem Plug Adapter	A105
17	Stem	A276 410
18	Thrust Bearing	PTFE
19	Grease Groove	/
20	O Ring	Viton
21	Packing	Flexible Graphite
22	Top Cover	A105 WCC
23	Gland Cap Screw	Carbon Steel
24	Inline Check	Carbon Steel/Stainless Steel
25	Lube/Sealant Injector	Carbon Steel/Stainless Steel
26	Stem Packing Injector	Carbon Steel/Stainless Steel
27	Stud	A193 B7M
28	Nut	A194 2HM
29	Key	AISI 1045
30	Gear	Ductile Iron
31	Positioning Pin	Carbon Steel

CLASS 150	SIZE		A - RF	H1	H3	W	WGT LBS/KG
	IN	6	10.50	6.85	19.33	18.00	176
	MM	150	267	174	491	450	80
	IN	8	11.50	8.46	23.31	24.00	348
	MM	200	292	215	592	600	158
	IN	10	13.00	9.65	24.29	24.00	540
	MM	250	330	245	617	600	245
	IN	12	14.00	11.22	25.98	24.00	772
	MM	300	356	285	660	600	350

Regular Pattern - Pressure Balanced Lubricated Plug Valves
Size: 2” - 6” Class: 150

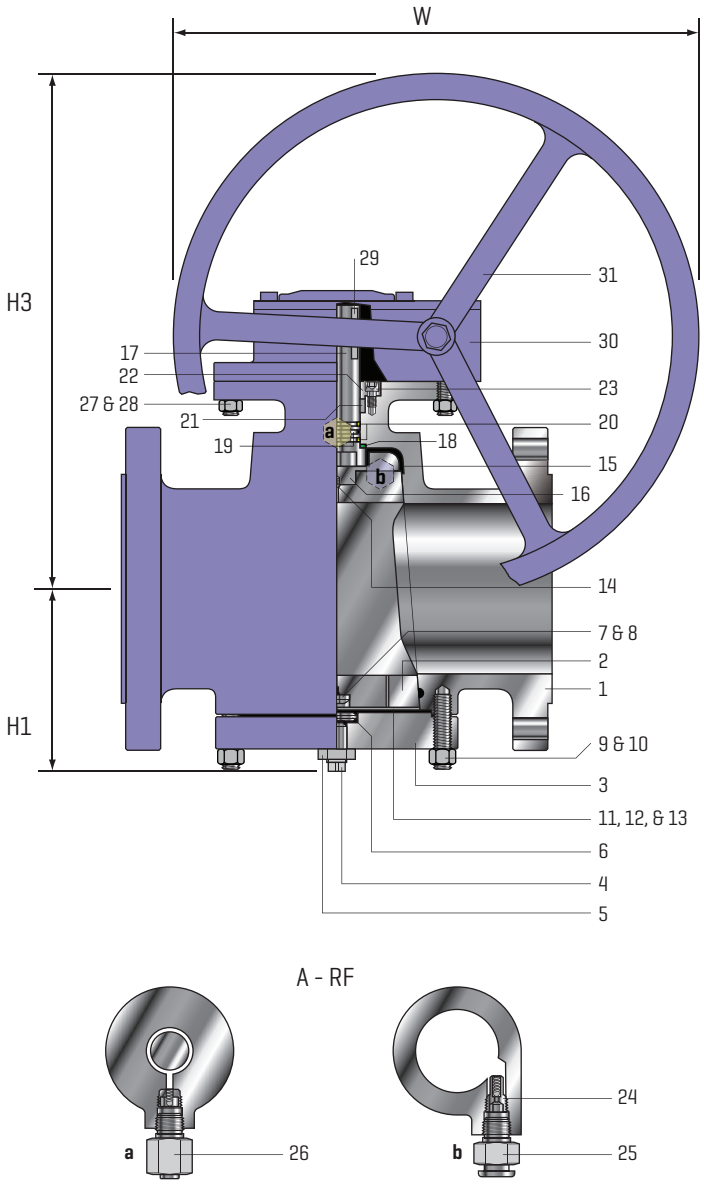




No	Name Of Part	Material
1	Body	A216 WCC
2	Plug	CA15 + Nitriding
3	Bonnet	A105
4	Plug Adjustment Screw	A193 B7M
5	Plug Adjustment Lock Nut	Carbon Steel
6	Lower Pivot Disc	AISI 1035
7	Upper Pivot Disc	AISI 1035
8	Pivot Center	AISI 1035
9	Stud	A193 B7M
10	Nut	A194 2HM
11	Gasket	Flexible Graphite + 304
12	Washer	304SS
13	Steel Spacer	A36
14	Ball Spring Check	304SS
15	Lube/Sealant Reservior	/
16	Stem Plug Adapter	A105
17	Stem	A276 410
18	Thrust Bearing	PTFE
19	Grease Groove	/
20	O Ring	Viton
21	Packing	Flexible Graphite
22	Top Cover	A105 WCC
23	Gland Cap Screw	Carbon Steel
24	Inline Check	Carbon Steel/Stainless Steel
25	Lube/Sealant Injector	Carbon Steel/Stainless Steel
26	Stem Packing Injector	Carbon Steel/Stainless Steel
27	Lever	Carbon Steel
28	Hub	Carbon Steel
29	Indicator Stop Plate	Carbon Steel
30	Stop Plate Retainer	AISI 1566
31	Set Screw	Carbon Steel

CLASS 150	Size		A - RF	H1	H2	W	WGT LBS/KG
	IN	2	8.00	4.63	7.00	14.00	47
	MM	50	203	118	178	350	21.3
	IN	3	9.50	6.34	8.63	20.00	101
	MM	75	241	161	219	500	46
	IN	4	12.00	7.05	9.25	24.00	187
	MM	100	305	179	235	600	85
	IN	6	15.50	7.20	10.40	32.00	187
	MM	150	432	183	264	800	85

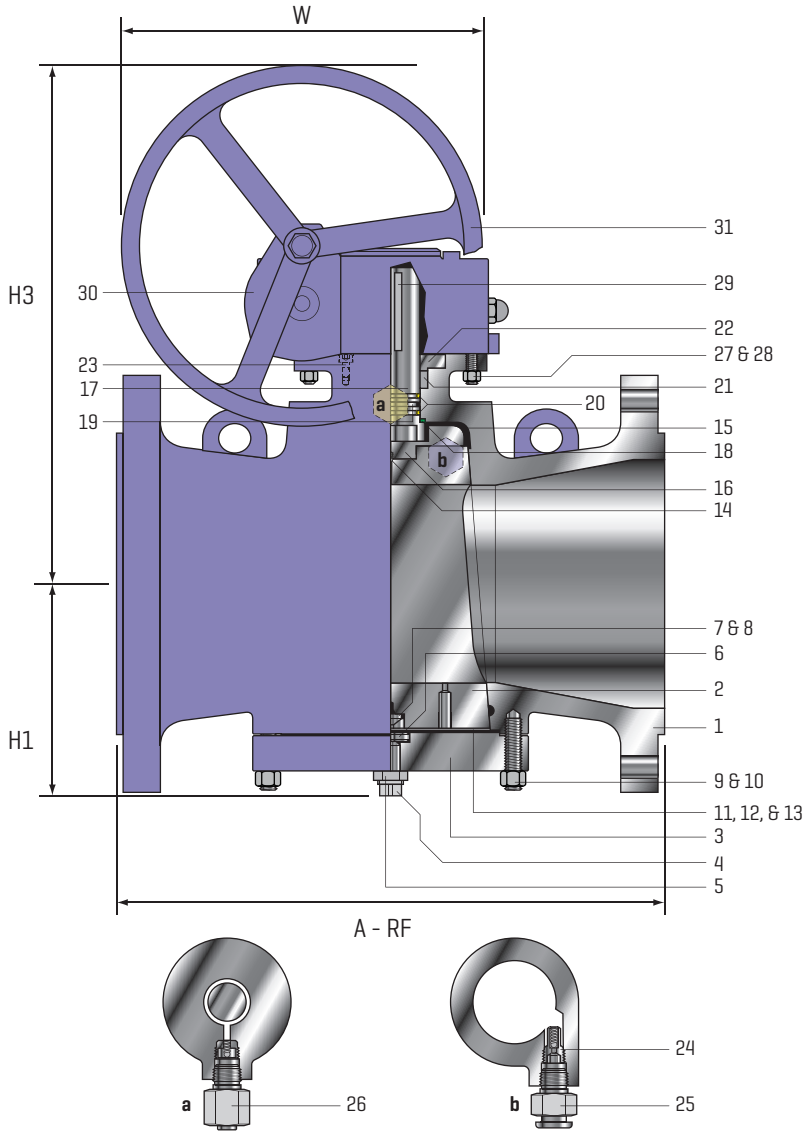
Regular Pattern - Pressure Balanced Lubricated Plug Valves
Size: 6” - 12” Class: 150



No	Name Of Part	Material
1	Body	A216 WCC
2	Plug	CA15 + Nitriding
3	Bonnet	A105
4	Plug Adjustment Screw	A193 B7M
5	Plug Adjustment Lock Nut	Carbon Steel
6	Lower Pivot Disc	AISI 1035
7	Upper Pivot Disc	AISI 1035
8	Pivot Center	AISI 1035
9	Stud	A193 B7M
10	Nut	A194 2HM
11	Gasket	Flexible Graphite + 304
12	Washer	304SS
13	Steel Spacer	A36
14	Ball Spring Check	304SS
15	Lube/Sealant Reservior	/
16	Stem Plug Adapter	A105
17	Stem	A276 410
18	Thrust Bearing	PTFE
19	Grease Groove	/
20	O Ring	Viton
21	Packing	Flexible Graphite
22	Gland	A105
23	Gland Cap Screw	Carbon Steel
24	Inline Check	Carbon Steel/Stainless Steel
25	Lube/Sealant Injector	Carbon Steel/Stainless Steel
26	Stem Packing Injector	Carbon Steel/Stainless Steel
27	Stud	A193 B7M
28	Nut	A194 2HM
29	Key	AISI 1045
30	Gear	Carbon Steel/Stainless Steel
31	Handwheel	Carbon Steel/Stainless Steel

CLASS 150	SIZE		A - RF	H1	H3	W	WGT LBS/KG
	IN	6	15.50	7.20	20.16	18.00	202
	MM	150	394	183	512	450	92
	IN	8	18.00	9.40	24.21	24.00	400
	MM	200	457	239	615	600	182
	IN	10	21.00	11.00	26.73	24.00	620
	MM	250	533	279	679	600	282
	IN	12	24.00	12.80	29.92	24.00	887
	MM	300	610	325	760	600	403

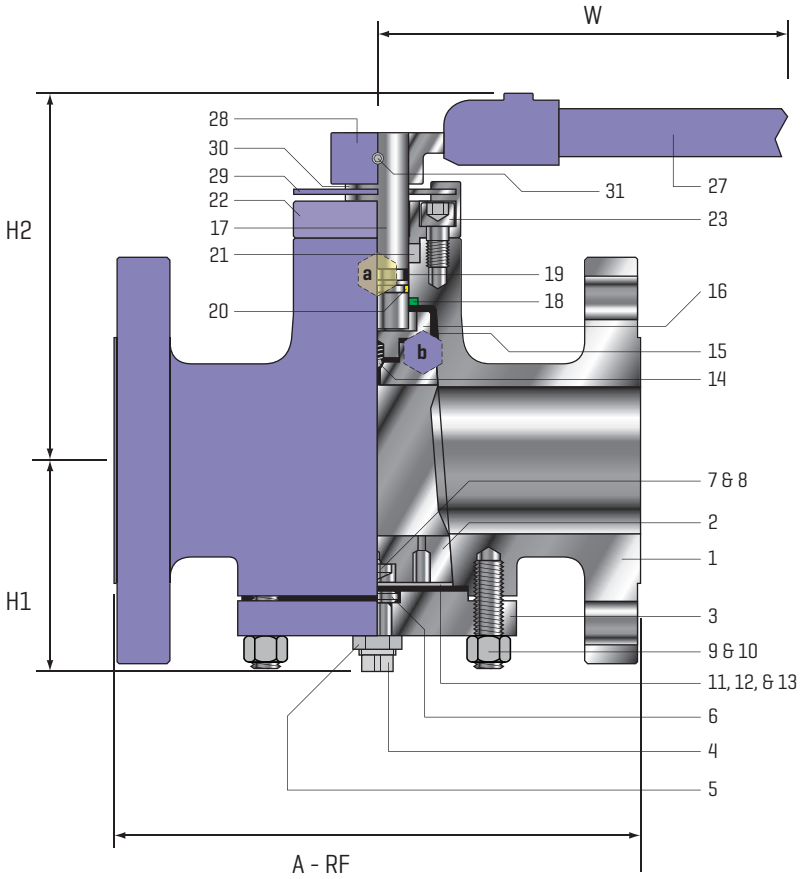
Venturi Pattern - Pressure Balanced Lubricated Plug Valves
Size: 14” - 36” Class: 150

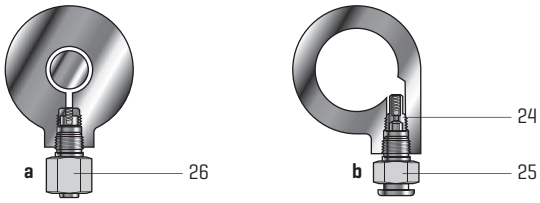


No	Name Of Part	Material
1	Body	A216 WCC
2	Plug	CA15 + Nitriding
3	Bonnet	A105
4	Plug Adjustment Screw	A193 B7M
5	Plug Adjustment Lock Nut	Carbon Steel
6	Lower Pivot Disc	AISI 1035
7	Upper Pivot Disc	AISI 1035
8	Pivot Center	AISI 1035
9	Stud	A193 B7M
10	Nut	A194 2HM
11	Gasket	Flexible Graphite + 304
12	Washer	304SS
13	Steel Spacer	A36
14	Ball Spring Check	304SS
15	Lube/Sealant Reservior	/
16	Stem Plug Adapter	A105
17	Stem	A276 410
18	Thrust Bearing	PTFE
19	Grease Groove	/
20	O Ring	Viton
21	Packing	Flexible Graphite
22	Top Cover	A105
23	Gland Cap Screw	Carbon Steel
24	Inline Check	Carbon Steel/Stainless Steel
25	Lube/Sealant Injector	Carbon Steel/Stainless Steel
26	Stem Packing Injector	Carbon Steel/Stainless Steel
27	Stud	A193 B7M
28	Nut	A194 2HM
29	Key	AISI 1045
30	Gear	Carbon Steel/Stainless Steel
31	Handwheel	Carbon Steel/Stainless Steel

	SIZE		A - RF	H1	H3	W	WGT LBS/KG
CLASS 150	IN	14	27.00	10.43	26.18	24.00	1477
	MM	350	686	265	665	600	640
	IN	16	30.00	12.48	32.60	24.00	1731
	MM	400	762	317	828	600	785
	IN	18	34.00	16.40	30.10	24.00	1951
	MM	450	864	416	765	600	885
	IN	20	36.00	18.40	30.80	24.00	2130
	MM	500	914	467	785	600	966
	IN	24	42.00	20.30	31.50	24.00	4092
	MM	600	1067	516	800	600	1856
	IN	30	51.00	228.00	41.10	24.00	8155
	MM	750	1295	579	1044	600	3699
	IN	36	63.00	*	*	24.00	*
	MM	900	1600	*	*	600	*

Short Pattern - Pressure Balanced Lubricated Plug Valves
Size: 2” - 6” Class: 300

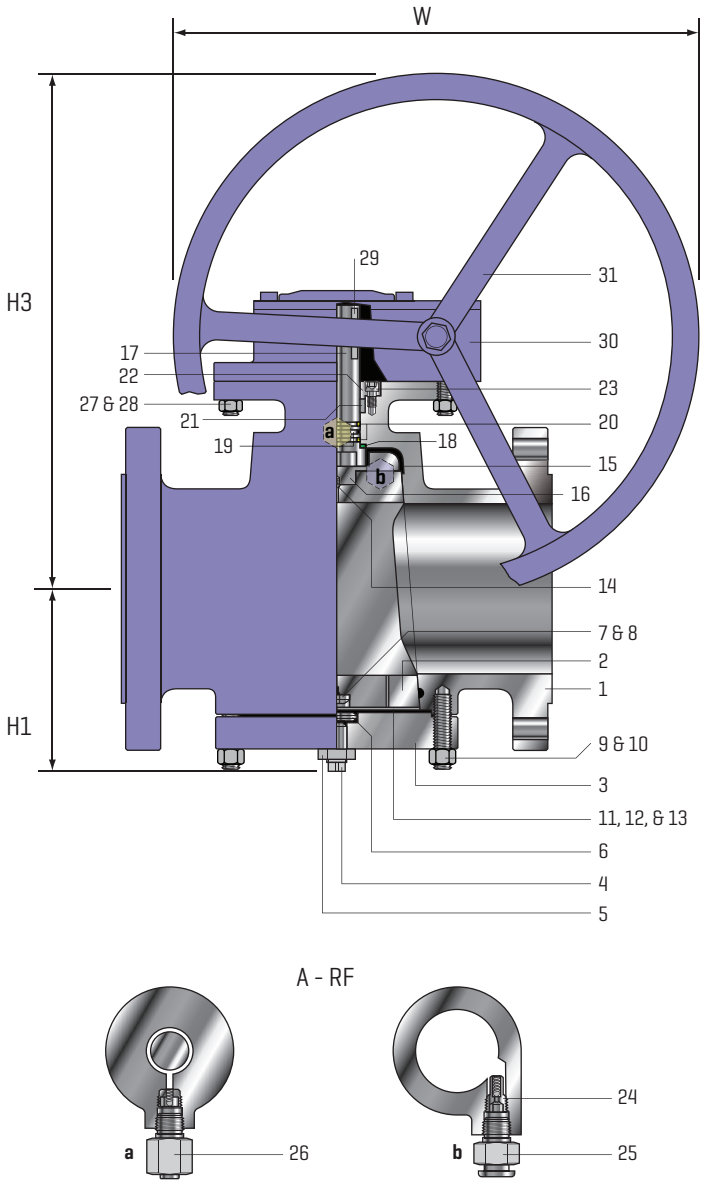




No	Name Of Part	Material
1	Body	A216 WCC
2	Plug	CA15 + Nitriding
3	Bonnet	A105
4	Plug Adjustment Screw	A193 B7M
5	Plug Adjustment Lock Nut	Carbon Steel
6	Lower Pivot Disc	AISI 1035
7	Upper Pivot Disc	AISI 1035
8	Pivot Center	AISI 1035
9	Stud	A193 B7M
10	Nut	A194 2HM
11	Gasket	Flexible Graphite + 304
12	Washer	304SS
13	Steel Spacer	A36
14	Ball Spring Check	304SS
15	Lube/Sealant Reservior	/
16	Stem Plug Adapter	A105
17	Stem	A276 410
18	Thrust Bearing	PTFE
19	Grease Groove	/
20	O Ring	Viton
21	Packing	Flexible Graphite
22	Top Cover	A105 WCC
23	Gland Cap Screw	Carbon Steel
24	Inline Check	Carbon Steel/Stainless Steel
25	Lube/Sealant Injector	Carbon Steel/Stainless Steel
26	Stem Packing Injector	Carbon Steel/Stainless Steel
27	Lever	Carbon Steel
28	Hub	Carbon Steel
29	Indicator Stop Plate	Carbon Steel
30	Stop Plate Retainer	AISI 1566
31	Set Screw	Carbon Steel

CLASS 300	Size		A - RF	H1	H2	W	WGT LBS/KG
	IN	2	8.50	3.74	5.83	14	46
	MM	50	216	95	148	350	21
	IN	3	11.13	4.41	6.61	20	84
	MM	75	283	112	168	500	38
	IN	4	12.00	5.35	7.91	24	132
	MM	100	305	136	201	600	60
	IN	6	15.88	6.9	9.72	32	188
	MM	150	403	175	247	800	85

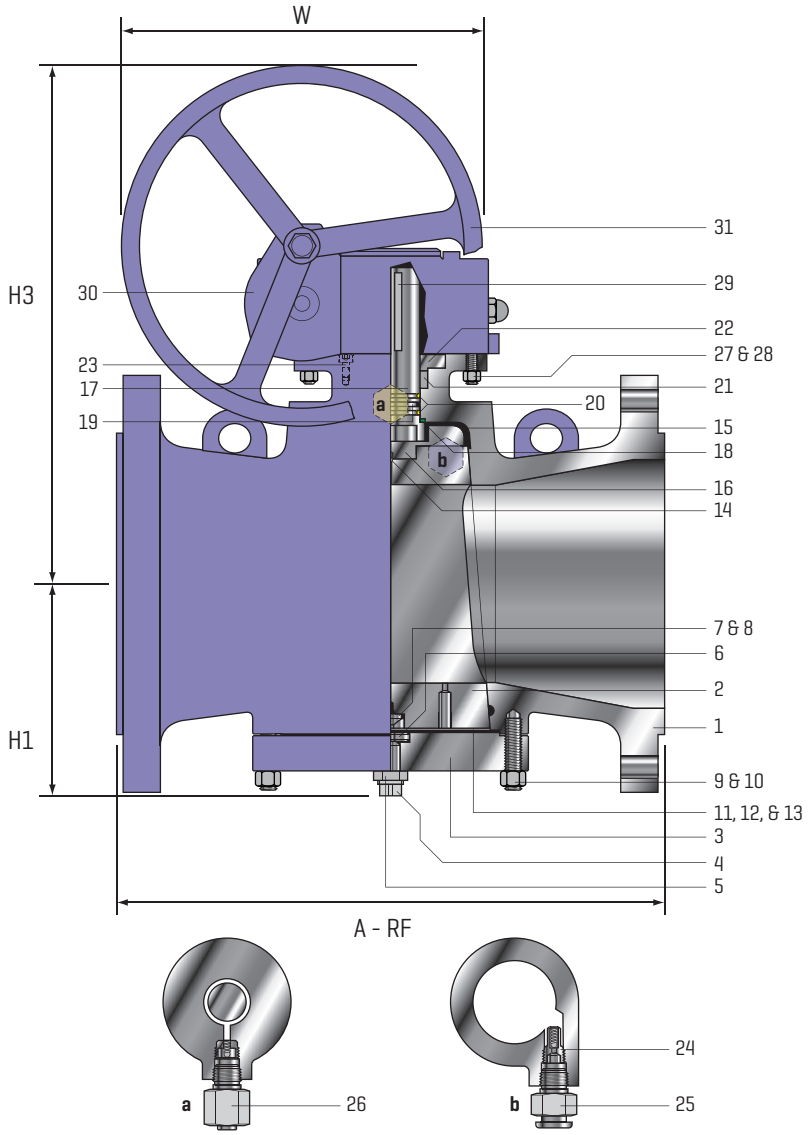
Regular Pattern - Pressure Balanced Lubricated Plug Valves
Size: 6” - 12” Class: 300



No	Name Of Part	Material
1	Body	A216 WCC
2	Plug	CA15 + Nitriding
3	Bonnet	A105
4	Plug Adjustment Screw	A193 B7M
5	Plug Adjustment Lock Nut	Carbon Steel
6	Lower Pivot Disc	AISI 1035
7	Upper Pivot Disc	AISI 1035
8	Pivot Center	AISI 1035
9	Stud	A193 B7M
10	Nut	A194 2HM
11	Gasket	Flexible Graphite + 304
12	Washer	304SS
13	Steel Spacer	A36
14	Ball Spring Check	304SS
15	Lube/Sealant Reservior	/
16	Stem Plug Adapter	A105
17	Stem	A276 410
18	Thrust Bearing	PTFE
19	Grease Groove	/
20	O Ring	Viton
21	Packing	Flexible Graphite
22	Gland	A105
23	Gland Cap Screw	Carbon Steel
24	Inline Check	Carbon Steel/Stainless Steel
25	Lube/Sealant Injector	Carbon Steel/Stainless Steel
26	Stem Packing Injector	Carbon Steel/Stainless Steel
27	Stud	A193 B7M
28	Nut	A194 2HM
29	Key	AISI 1045
30	Gear	Carbon Steel/Stainless Steel
31	Handwheel	Carbon Steel/Stainless Steel

CLASS 300	Size		A - RF	H1	H3	W	WGT LBS/KG
	IN	6	15.88	6.89	10.55	14.00	392
	MM	150	403	175	268	350	178
	IN	8	19.75	8.23	11.46	18.00	609
	MM	200	502	209	291	450	276
	IN	10	22.38	9.69	12.91	24.00	784
	MM	250	568	246	328	600	356
	IN	12	28.00	11.22	18.70	32.00	1120
	MM	300	711	285	475	800	508

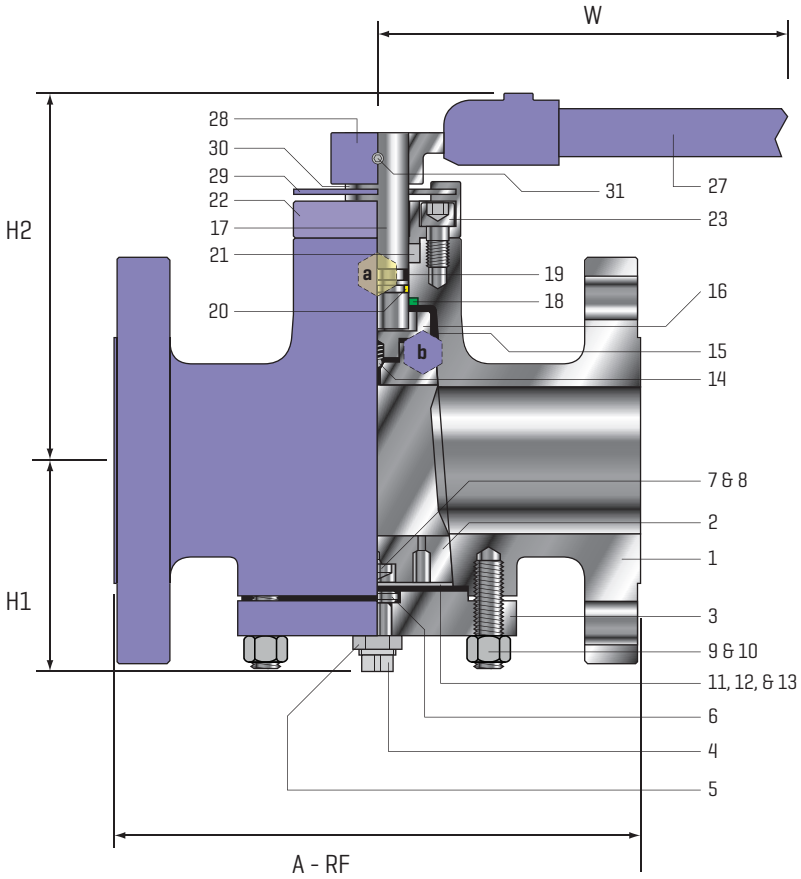
Venturi Pattern - Pressure Balanced Lubricated Plug Valves
Size: 14” - 36” Class: 300

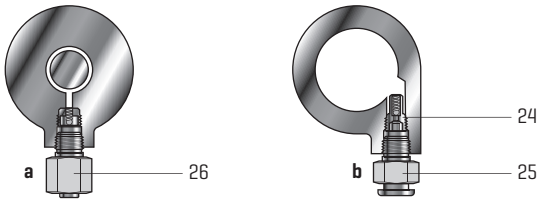


No	Name Of Part	Material
1	Body	A216 WCC
2	Plug	CA15 + Nitriding
3	Bonnet	A105
4	Plug Adjustment Screw	A193 B7M
5	Plug Adjustment Lock Nut	Carbon Steel
6	Lower Pivot Disc	AISI 1035
7	Upper Pivot Disc	AISI 1035
8	Pivot Center	AISI 1035
9	Stud	A193 B7M
10	Nut	A194 2HM
11	Gasket	Flexible Graphite + 304
12	Washer	304SS
13	Steel Spacer	A36
14	Ball Spring Check	304SS
15	Lube/Sealant Reservior	/
16	Stem Plug Adapter	A105
17	Stem	A276 410
18	Thrust Bearing	PTFE
19	Grease Groove	/
20	O Ring	Viton
21	Packing	Flexible Graphite
22	Top Cover	A105
23	Gland Cap Screw	Carbon Steel
24	Inline Check	Carbon Steel/Stainless Steel
25	Lube/Sealant Injector	Carbon Steel/Stainless Steel
26	Stem Packing Injector	Carbon Steel/Stainless Steel
27	Stud	A193 B7M
28	Nut	A194 2HM
29	Key	AISI 1045
30	Gear	Carbon Steel/Stainless Steel
31	Handwheel	Carbon Steel/Stainless Steel

	Size		A - RF	H1	H3	W	WGT LBS/KG
CLASS 300	IN	14	30.00	10.43	26.18	24.00	1755
	MM	350	762	265	665	600	796
	IN	16	33.00	12.48	32.60	24.00	1989
	MM	400	838	317	828	600	902
	IN	18	36.00	16.40	30.10	24.00	2418
	MM	450	914	416	765	600	1097
	IN	20	39.00	18.50	37.00	24.00	3474
	MM	500	991	470	940	600	1576
	IN	24	45.00	20.70	38.20	24.00	4530
	MM	600	1143	525	970	600	2060
	IN	30	55.00	*	*	24.00	*
	MM	750	1397	*	*	600	*
	IN	36	68.00	*	*	24.00	*
	MM	900	1727	*	*	600	*

Regular Pattern - Pressure Balanced Lubricated Plug Valves
Size: 2” - 4” Class: 600

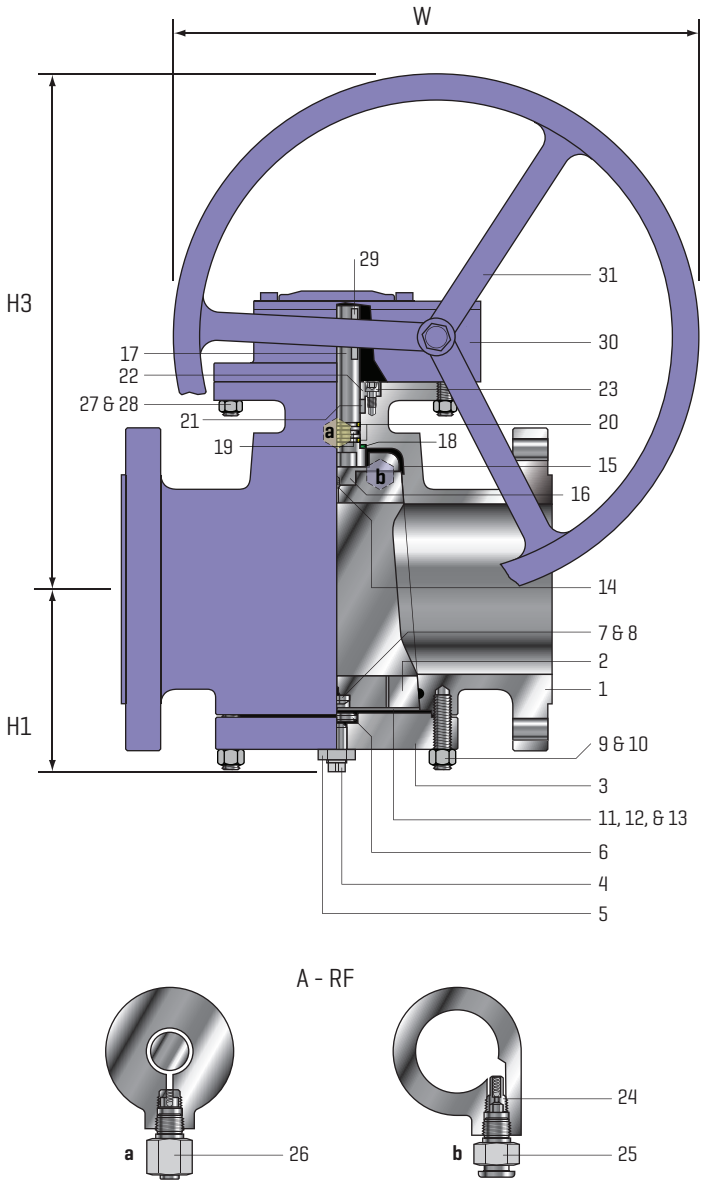




No	Name Of Part	Material
1	Body	A216 WCC
2	Plug	CA15 + Nitriding
3	Bonnet	A105
4	Plug Adjustment Screw	A193 B7M
5	Plug Adjustment Lock Nut	Carbon Steel
6	Lower Pivot Disc	AISI 1035
7	Upper Pivot Disc	AISI 1035
8	Pivot Center	AISI 1035
9	Stud	A193 B7M
10	Nut	A194 2HM
11	Gasket	Flexible Graphite + 304
12	Washer	304SS
13	Steel Spacer	A36
14	Ball Spring Check	304SS
15	Lube/Sealant Reservior	/
16	Stem Plug Adapter	A105
17	Stem	A276 410
18	Thrust Bearing	PTFE
19	Grease Groove	/
20	O Ring	Viton
21	Packing	Flexible Graphite
22	Top Cover	A105 WCC
23	Gland Cap Screw	Carbon Steel
24	Inline Check	Carbon Steel/Stainless Steel
25	Lube/Sealant Injector	Carbon Steel/Stainless Steel
26	Stem Packing Injector	Carbon Steel/Stainless Steel
27	Lever	Carbon Steel
28	Hub	Carbon Steel
29	Indicator Stop Plate	Carbon Steel
30	Stop Plate Retainer	AISI 1566
31	Set Screw	Carbon Steel

600	Size		A - RF	A - RTJ	H1	H2	W	WGT LBS/KG
	IN	2	11.50	11.60	3.82	5.83	22.00	47
	MM	50	292	295	97	148	550	21.3
	IN	3	14.00	14.10	4.41	6.61	28.00	101
	MM	75	356	359	112	168	700	46
	IN	4	17.00	17.10	5.35	8.27	40.00	187
	MM	100	432	435	136	210	1000	85

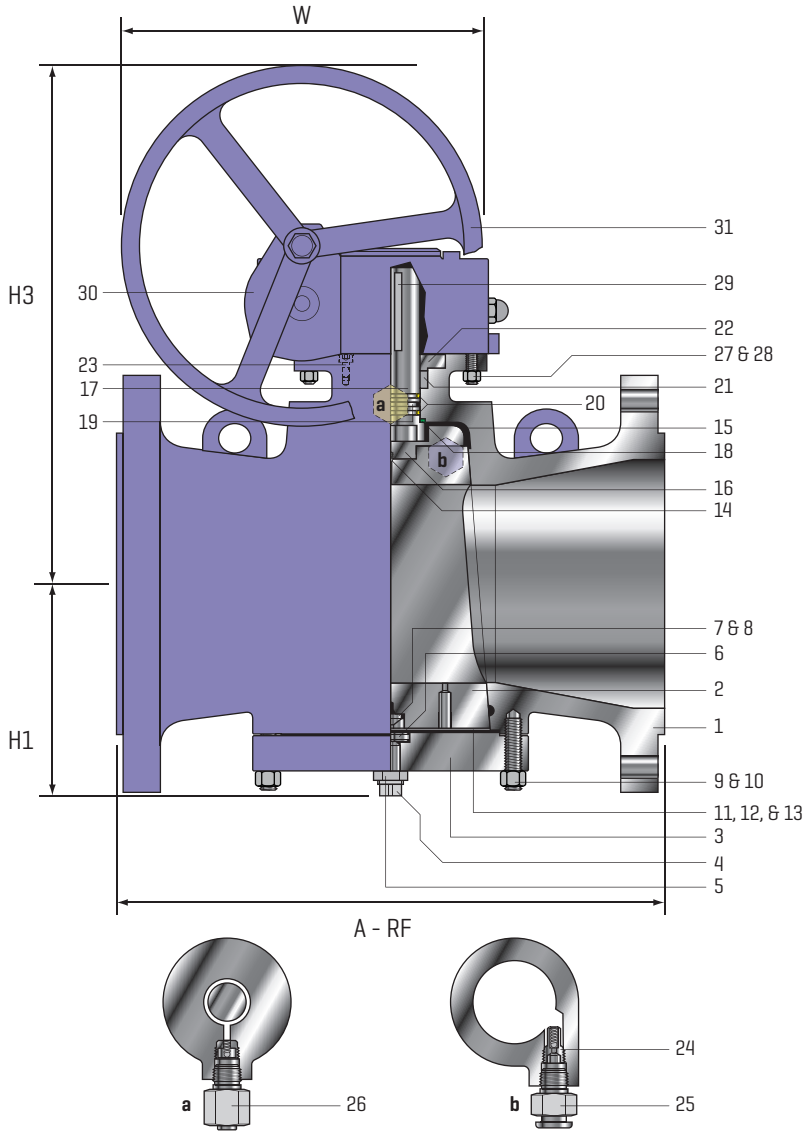
Regular Pattern - Pressure Balanced Lubricated Plug Valves
Size: 4” - 12” Class: 600



No	Name Of Part	Material
1	Body	A216 WCC
2	Plug	CA15 + Nitriding
3	Bonnet	A105
4	Plug Adjustment Screw	A193 B7M
5	Plug Adjustment Lock Nut	Carbon Steel
6	Lower Pivot Disc	AISI 1035
7	Upper Pivot Disc	AISI 1035
8	Pivot Center	AISI 1035
9	Stud	A193 B7M
10	Nut	A194 2HM
11	Gasket	Flexible Graphite + 304
12	Washer	304SS
13	Steel Spacer	A36
14	Ball Spring Check	304SS
15	Lube/Sealant Reservior	/
16	Stem Plug Adapter	A105
17	Stem	A276 410
18	Thrust Bearing	PTFE
19	Grease Groove	/
20	O Ring	Viton
21	Packing	Flexible Graphite
22	Gland	A105
23	Gland Cap Screw	Carbon Steel
24	Inline Check	Carbon Steel/Stainless Steel
25	Lube/Sealant Injector	Carbon Steel/Stainless Steel
26	Stem Packing Injector	Carbon Steel/Stainless Steel
27	Stud	A193 B7M
28	Nut	A194 2HM
29	Key	AISI 1045
30	Gear	Carbon Steel/Stainless Steel
31	Handwheel	Carbon Steel/Stainless Steel

CLASS 600	Size		A - RF	A - RTJ	H1	H3	W	WGT LBS/KG
	IN	4	17.00	17.12	5.35	13.78	10.00	187
	MM	100	432	435	136	350	250	85
	IN	6	22.01	22.12	9.75	17.52	14.00	560
	MM	150	559	562	248	445	350	254
	IN	8	26.00	26.12	11.80	22.83	18.00	896
	MM	200	660	664	298	580	450	406
	IN	10	31.00	31.12	12.30	30.5	18.00	1290
	MM	250	787	791	313	775	450	584
	IN	12	33.00	33.12	14.80	27.7	24.00	1367
	MM	300	838	841	375	704	600	620

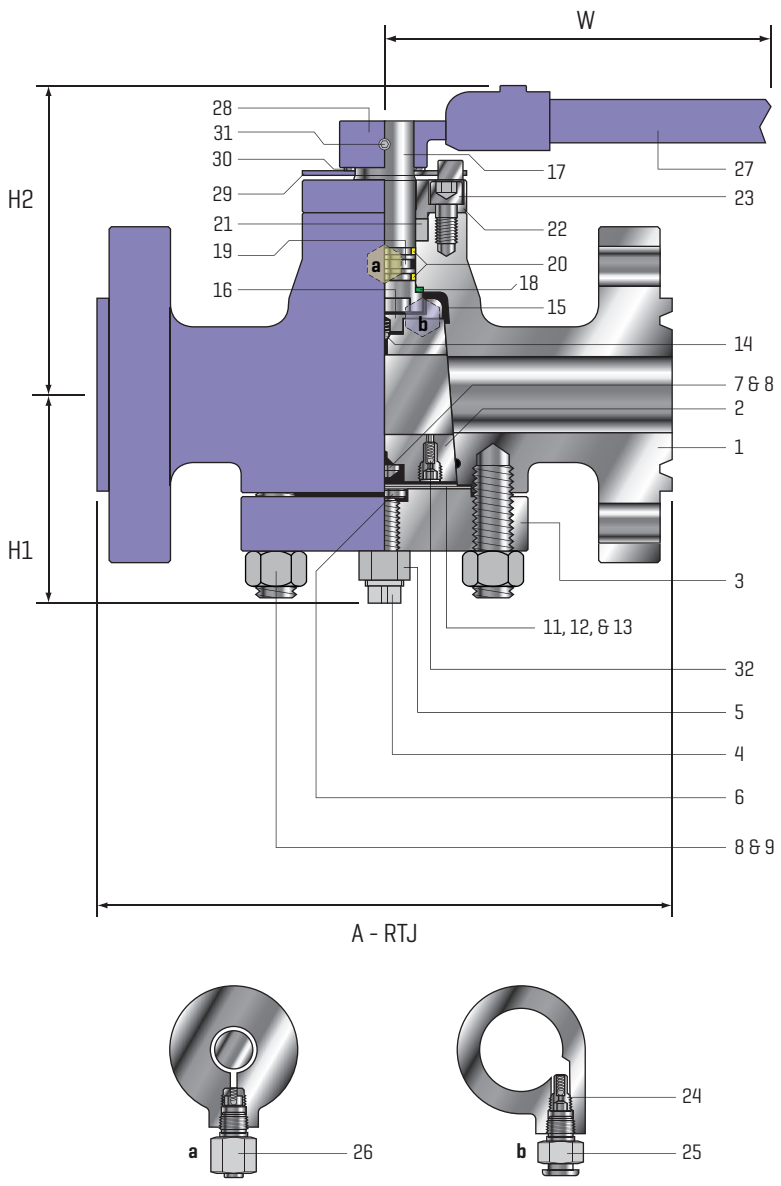
Venturi Pattern - Pressure Balanced Lubricated Plug Valves
Size: 6” - 24” Class: 600



No	Name Of Part	Material
1	Body	A216 WCC
2	Plug	CA15 + Nitriding
3	Bonnet	A105
4	Plug Adjustment Screw	A193 B7M
5	Plug Adjustment Lock Nut	Carbon Steel
6	Lower Pivot Disc	AISI 1035
7	Upper Pivot Disc	AISI 1035
8	Pivot Center	AISI 1035
9	Stud	A193 B7M
10	Nut	A194 2HM
11	Gasket	Flexible Graphite + 304
12	Washer	304SS
13	Steel Spacer	A36
14	Ball Spring Check	304SS
15	Lube/Sealant Reservior	/
16	Stem Plug Adapter	A105
17	Stem	A276 410
18	Thrust Bearing	PTFE
19	Grease Groove	/
20	O Ring	Viton
21	Packing	Flexible Graphite
22	Top Cover	A105
23	Gland Cap Screw	Carbon Steel
24	Inline Check	Carbon Steel/Stainless Steel
25	Lube/Sealant Injector	Carbon Steel/Stainless Steel
26	Stem Packing Injector	Carbon Steel/Stainless Steel
27	Stud	A193 B7M
28	Nut	A194 2HM
29	Key	AISI 1045
30	Gear	Carbon Steel/Stainless Steel
31	Handwheel	Carbon Steel/Stainless Steel

CLASS 600	Size		A - RF	A - RTJ	H1	H3	W	WGT LBS/KG
	IN	6	22.00	22.12	5.35	20.67	24.00	330
	MM	150	559	562	136	525	600	150
	IN	8	26.00	26.12	7.28	22.44	24.00	670
	MM	200	660	664	185	570	600	304
	IN	10	31.00	31.12	9.13	24.02	24.00	965
	MM	250	787	791	232	610	600	437
	IN	12	33.00	33.12	13.20	30.40	24.00	1358
	MM	300	838	841	335	773	600	616
	IN	14	35.00	35.12	14.80	32.50	24.00	1905
	MM	350	889	892	375	825	600	864
	IN	16	39.00	39.12	16.90	33.30	32.00	2575
	MM	400	991	994	429	845	800	1168
	IN	18	43.00	43.12	18.30	35.40	32.00	3644
	MM	450	1092	1095	464	900	800	1653
	IN	20	47.00	47.25	18.80	37.20	32.00	4079
	MM	500	1194	1200	477	945	800	1850
	IN	24	55.00	55.38	19.50	34.30	32.00	4764
	MM	600	1397	1407	496	870	800	2161

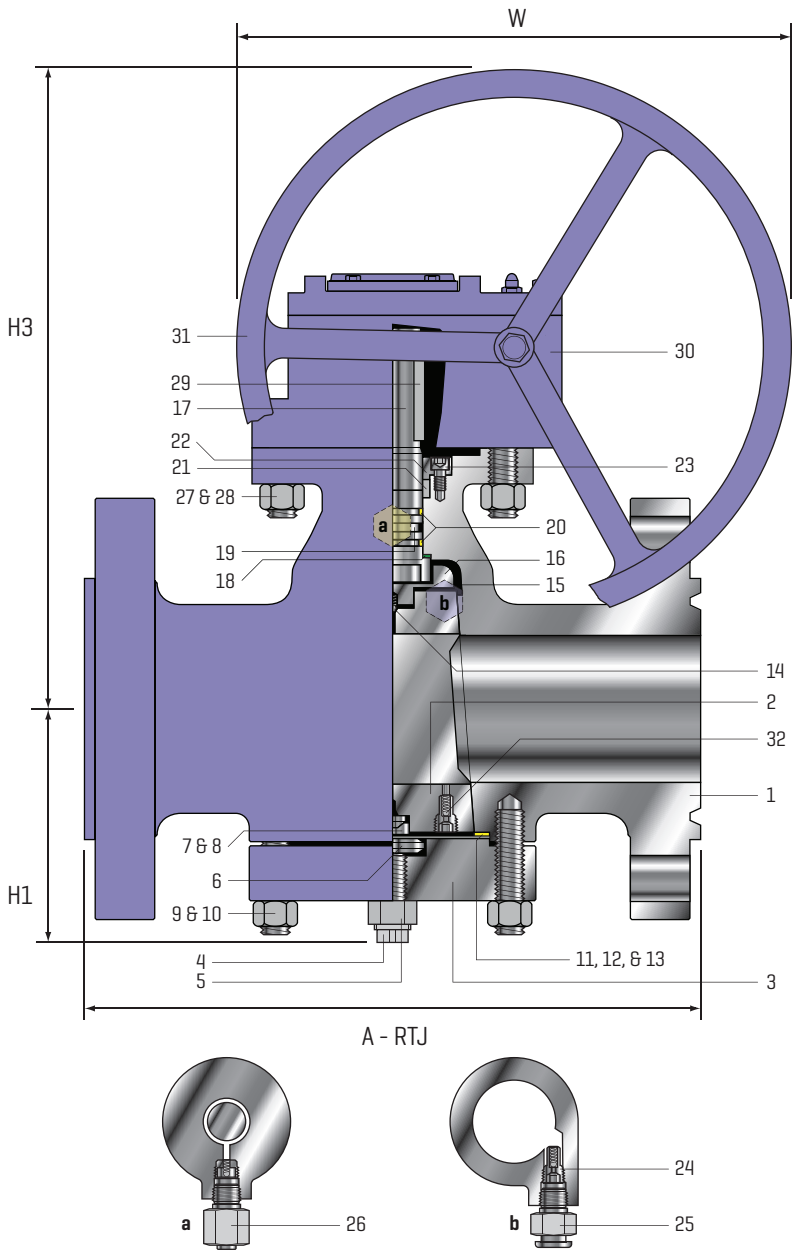
Regular Pattern - Pressure Balanced Lubricated Plug Valves
Size: 2” - 3” Class: 900



No	Name Of Part	Material
1	Body	A216 WCC
2	Plug	CA15 + Nitriding
3	Bonnet	A105
4	Plug Adjustment Screw	A193 B7M
5	Plug Adjustment Lock Nut	Carbon Steel
6	Lower Pivot Disc	AISI 1035
7	Upper Pivot Disc	AISI 1035
8	Pivot Center	AISI 1035
9	Stud	A193 B7M
10	Nut	A194 2HM
11	Gasket	Flexible Graphite + 304
12	Washer	304SS
13	Steel Spacer	A36
14	Ball Spring Check	304SS
15	Lube/Sealant Reservior	/
16	Stem Plug Adapter	A105
17	Stem	A276 410
18	Thrust Bearing	PTFE
19	Grease Groove	/
20	O Ring	Viton
21	Packing	Flexible Graphite
22	Top Cover	A105 WCC
23	Gland Cap Screw	Carbon Steel
24	Inline Check	Carbon Steel/Stainless Steel
25	Lube/Sealant Injector	Carbon Steel/Stainless Steel
26	Stem Packing Injector	Carbon Steel/Stainless Steel
27	Lever	Carbon Steel
28	Hub	Carbon Steel
29	Indicator Stop Plate	Carbon Steel
30	Stop Plate Retainer	AISI 1566
31	Set Screw	Carbon Steel
32	Inline Check	Carbon Steel/Stainless Steel

900	SIZE		A - RF	A - RTJ	H1	H2	W	WGT LBS/KG
	IN	2	14.50	14.62	5.31	7.13	32	54
	MM	50	368	371	135	181	800	24.5
	IN	3	15.00	15.12	7.09	8.70	40	250
	MM	75	381	384	180	221	1000	114

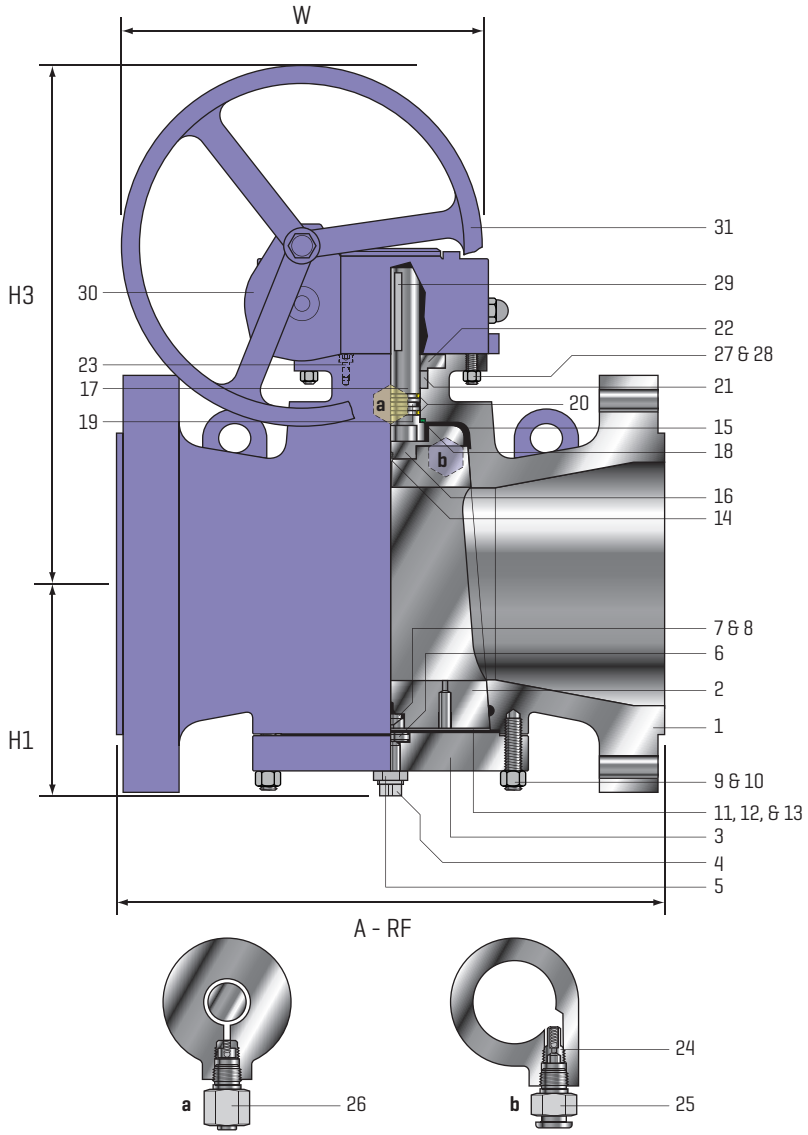
Regular Pattern - Pressure Balanced Lubricated Plug Valves
Size: 4” - 12” Class: 900



No	Name Of Part	Material
1	Body	A216 WCC
2	Plug	CA15 + Nitriding
3	Bonnet	A105
4	Plug Adjustment Screw	A193 B7M
5	Plug Adjustment Lock Nut	Carbon Steel
6	Lower Pivot Disc	AISI 1035
7	Upper Pivot Disc	AISI 1035
8	Pivot Center	AISI 1035
9	Stud	A193 B7M
10	Nut	A194 2HM
11	Gasket	Flexible Graphite + 304
12	Washer	304SS
13	Steel Spacer	A36
14	Ball Spring Check	304SS
15	Lube/Sealant Reservior	/
16	Stem Plug Adapter	A105
17	Stem	A276 410
18	Thrust Bearing	PTFE
19	Grease Groove	/
20	O Ring	Viton
21	Packing	Flexible Graphite
22	Gland	A105
23	Gland Cap Screw	Carbon Steel
24	Inline Check	Carbon Steel/Stainless Steel
25	Lube/Sealant Injector	Carbon Steel/Stainless Steel
26	Stem Packing Injector	Carbon Steel/Stainless Steel
27	Stud	A193 B7M
28	Nut	A194 2HM
29	Key	AISI 1045
30	Gear	Carbon Steel/Stainless Steel
31	Handwheel	Carbon Steel/Stainless Steel
32	Inline Check	Carbon Steel/Stainless Steel

CLASS 900	SIZE		A - RF	A - RTJ	H1	H3	W	GEAR	WGT LBS/KG
	IN	4	18	18.11	6.57	9.08	18	108W	276
	MM	100	457	460	167	249	450		125
	IN	6	24	24.13	10.04	15.16	24	208W	581
	MM	150	610	613	255	385	600		264
	IN	8	29	29.13	11.89	17.56	24	308W	1300
	MM	200	737	740	302	446	600		591
	IN	10	33	33.11	12.8	19.09	24	408W	1456
	MM	250	838	841	352	485	600		662
	IN	12	38	38.11	15.94	21.1	24	408W	2854
	MM	300	965	968	405	536	600		1295

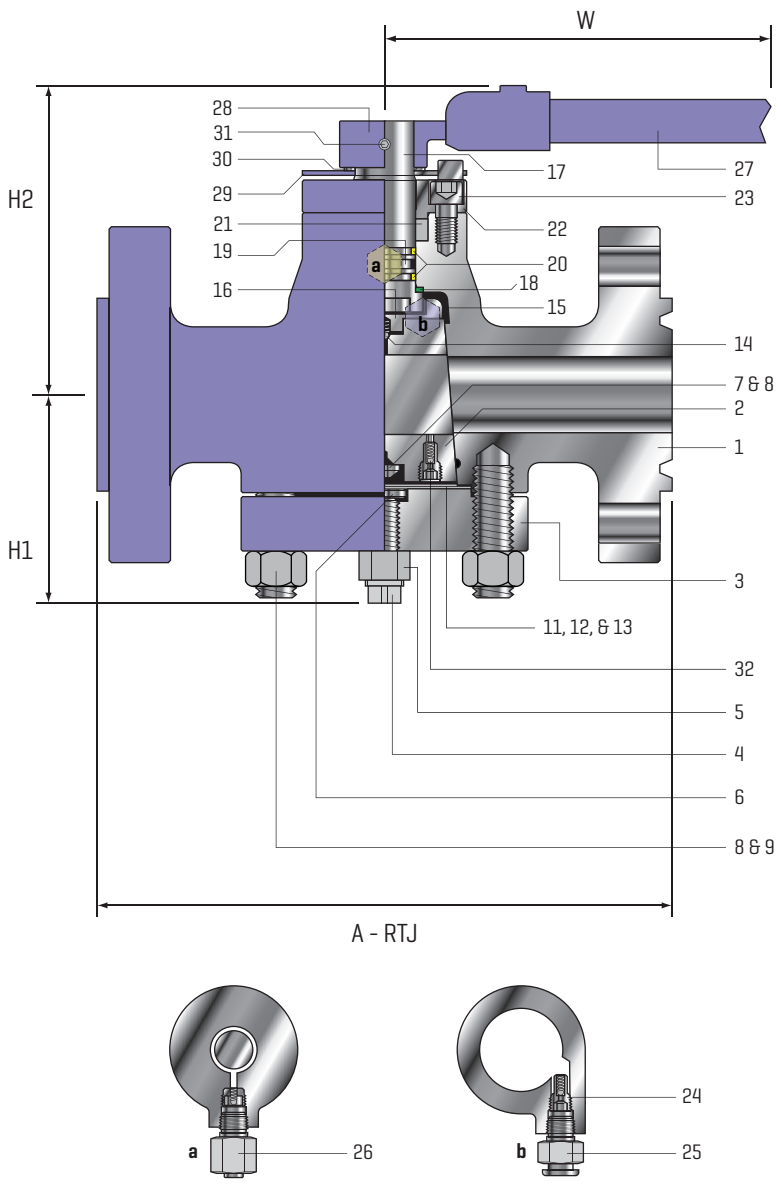
Venturi Pattern - Pressure Balanced Lubricated Plug Valves
Size: 14” - 24” Class: 900



No	Name Of Part	Material
1	Body	A216 WCC
2	Plug	CA15 + Nitriding
3	Bonnet	A105
4	Plug Adjustment Screw	A193 B7M
5	Plug Adjustment Lock Nut	Carbon Steel
6	Lower Pivot Disc	AISI 1035
7	Upper Pivot Disc	AISI 1035
8	Pivot Center	AISI 1035
9	Stud	A193 B7M
10	Nut	A194 2HM
11	Gasket	Flexible Graphite + 304
12	Washer	304SS
13	Steel Spacer	A36
14	Ball Spring Check	304SS
15	Lube/Sealant Reservior	/
16	Stem Plug Adapter	A105
17	Stem	A276 410
18	Thrust Bearing	PTFE
19	Grease Groove	/
20	O Ring	Viton
21	Packing	Flexible Graphite
22	Top Cover	A105
23	Gland Cap Screw	Carbon Steel
24	Inline Check	Carbon Steel/Stainless Steel
25	Lube/Sealant Injector	Carbon Steel/Stainless Steel
26	Stem Packing Injector	Carbon Steel/Stainless Steel
27	Stud	A193 B7M
28	Nut	A194 2HM
29	Key	AISI 1045
30	Gear	Carbon Steel/Stainless Steel
31	Handwheel	Carbon Steel/Stainless Steel

	SIZE		A - RF	A-RTJ	H1	H3	W	WGT LBS/KG
CLASS 900	IN	14	40.5	40.9	14.8	32.5	24	*
	MM	350	1029	1038	375	825	600	*
	IN	16	44.5	44.9	16.9	33.3	32	4365
	MM	400	1130	1140	429	845	800	1980
	IN	18	48	48.5	18.3	35.4	32	*
	MM	450	1219	1232	464	900	800	*
	IN	20	52	52.5	18.8	37.2	32	9000
	MM	500	1321	1334	477	945	800	4082
	IN	24	61	61.7	19.5	34.3	32	*
	MM	600	1549	1568	496	870	800	*

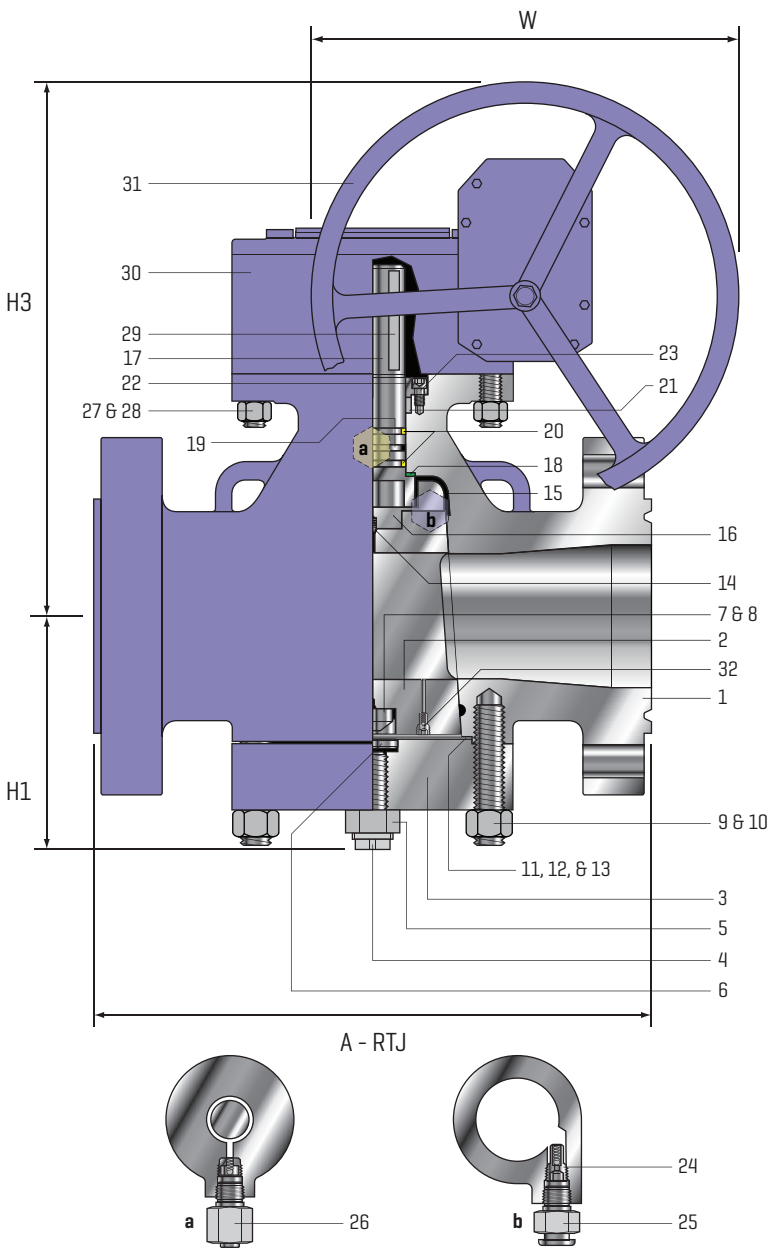
Regular Pattern - Pressure Balanced Lubricated Plug Valves
Size: 2” - 3” Class: 1500



No	Name Of Part	Material
1	Body	A216 WCC
2	Plug	CA15 + Nitriding
3	Bonnet	A105
4	Plug Adjustment Screw	A193 B7M
5	Plug Adjustment Lock Nut	Carbon Steel
6	Lower Pivot Disc	AISI 1035
7	Upper Pivot Disc	AISI 1035
8	Pivot Center	AISI 1035
9	Stud	A193 B7M
10	Nut	A194 2HM
11	Gasket	Flexible Graphite + 304
12	Washer	304SS
13	Steel Spacer	A36
14	Ball Spring Check	304SS
15	Lube/Sealant Reservior	/
16	Stem Plug Adapter	A105
17	Stem	A276 410
18	Thrust Bearing	PTFE
19	Grease Groove	/
20	O Ring	Viton
21	Packing	Flexible Graphite
22	Top Cover	A105 WCC
23	Gland Cap Screw	Carbon Steel
24	Inline Check	Carbon Steel/Stainless Steel
25	Lube/Sealant Injector	Carbon Steel/Stainless Steel
26	Stem Packing Injector	Carbon Steel/Stainless Steel
27	Lever	Carbon Steel
28	Hub	Carbon Steel
29	Indicator Stop Plate	Carbon Steel
30	Stop Plate Retainer	AISI 1566
31	Set Screw	Carbon Steel
32	Inline Check	Carbon Steel/Stainless Steel

1500	SIZE		A - RF	A - RTJ	H1	H2	W	WTS LBS/KG
	IN	2	14.5	14.6	5.31	7.13	32	150
	MM	50	368	371	135	181	800	68
	IN	3	18.5	18.62	7.2	8.82	40	260
	MM	75	470	473	183	224	1000	118

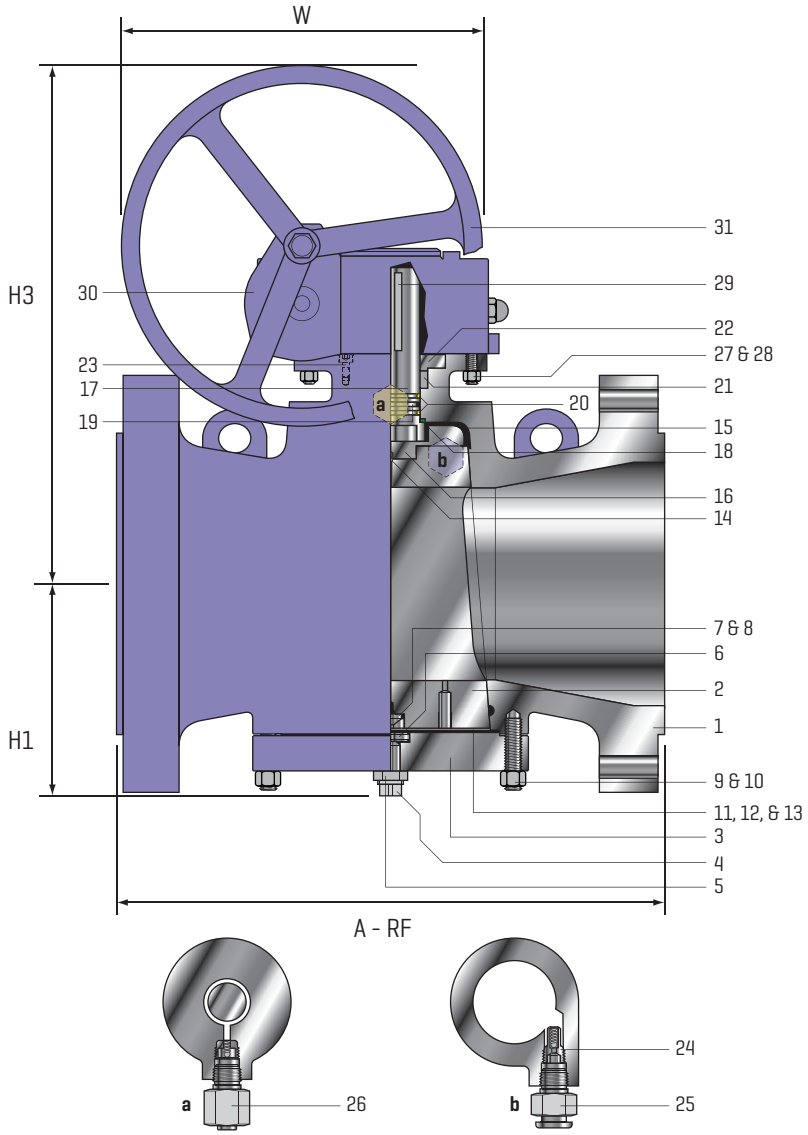
Regular Pattern - Pressure Balanced Lubricated Plug Valves
Size: 4” - 12” Class: 1500



No	Name Of Part	Material
1	Body	A216 WCC
2	Plug	CA15 + Nitriding
3	Bonnet	A105
4	Plug Adjustment Screw	A193 B7M
5	Plug Adjustment Lock Nut	Carbon Steel
6	Lower Pivot Disc	AISI 1035
7	Upper Pivot Disc	AISI 1035
8	Pivot Center	AISI 1035
9	Stud	A193 B7M
10	Nut	A194 2HM
11	Gasket	Flexible Graphite + 304
12	Washer	304SS
13	Steel Spacer	A36
14	Ball Spring Check	304SS
15	Lube/Sealant Reservior	/
16	Stem Plug Adapter	A105
17	Stem	A276 410
18	Thrust Bearing	PTFE
19	Grease Groove	/
20	O Ring	Viton
21	Packing	Flexible Graphite
22	Gland	A105
23	Gland Cap Screw	Carbon Steel
24	Inline Check	Carbon Steel/Stainless Steel
25	Lube/Sealant Injector	Carbon Steel/Stainless Steel
26	Stem Packing Injector	Carbon Steel/Stainless Steel
27	Stud	A193 B7M
28	Nut	A194 2HM
29	Key	AISI 1045
30	Gear	Carbon Steel/Stainless Steel
31	Handwheel	Carbon Steel/Stainless Steel
32	Inline Check	Carbon Steel/Stainless Steel

CLASS 1500	SIZE		A - RF	A - RTJ	H1	H3	W	GEAR	WGT LBS/KG
	IN	4	21.5	21.61	8.86	22.44	24	208W	355
	MM	100	546	549	225	570	600		161
	IN	6	27.8	27.99	10.83	28.54	24	308W	1130
	MM	150	705	711	275	725	600		513
	IN	8	32.8	33.11	12.6	30.12	24	408W	1710
	MM	200	832	841	320	765	600		776
	IN	10	39	39.37	10.57	31.69	24	408W	2720
	MM	250	991	1000	370	805	600		1234
	IN	12	44.5	45.12	16.93	34.06	24	508W	3760
	MM	300	1130	1146	430	865	600		1706

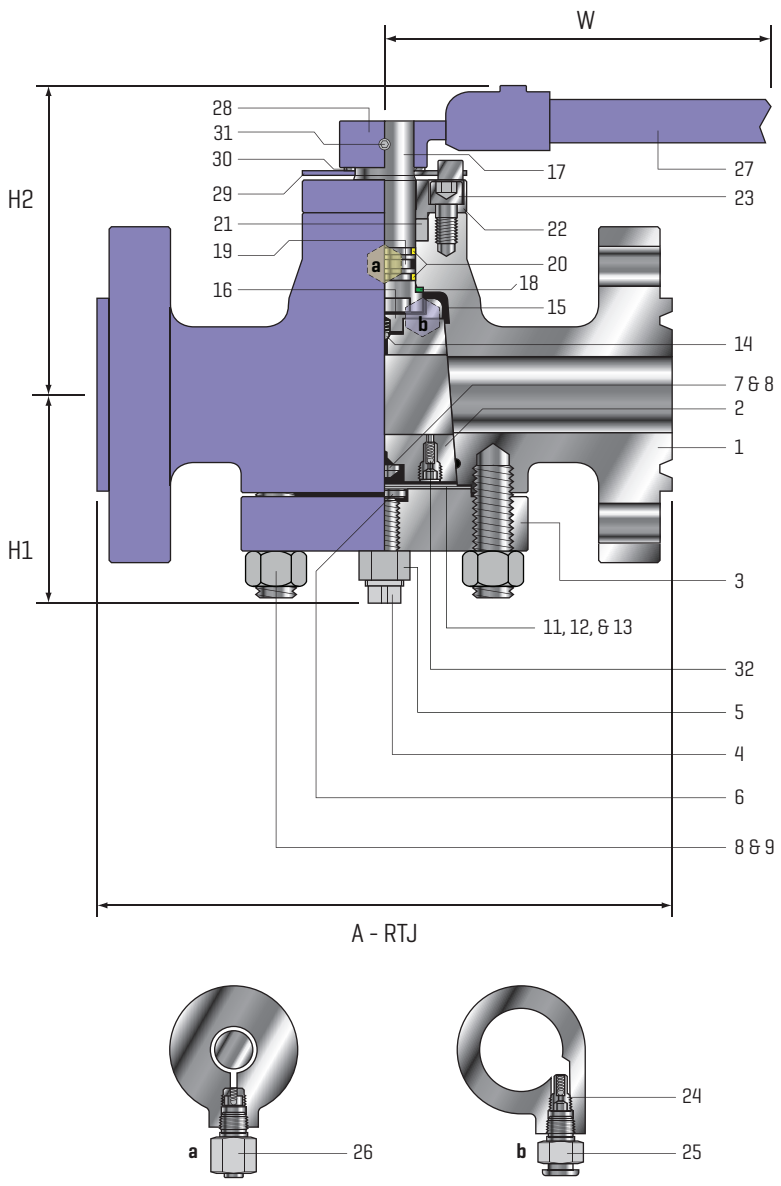
Venturi Pattern - Pressure Balanced Lubricated Plug Valves
Size: 14” - 18” Class: 1500



No	Name Of Part	Material
1	Body	A216 WCC
2	Plug	CA15 + Nitriding
3	Bonnet	A105
4	Plug Adjustment Screw	A193 B7M
5	Plug Adjustment Lock Nut	Carbon Steel
6	Lower Pivot Disc	AISI 1035
7	Upper Pivot Disc	AISI 1035
8	Pivot Center	AISI 1035
9	Stud	A193 B7M
10	Nut	A194 2HM
11	Gasket	Flexible Graphite + 304
12	Washer	304SS
13	Steel Spacer	A36
14	Ball Spring Check	304SS
15	Lube/Sealant Reservior	/
16	Stem Plug Adapter	A105
17	Stem	A276 410
18	Thrust Bearing	PTFE
19	Grease Groove	/
20	O Ring	Viton
21	Packing	Flexible Graphite
22	Top Cover	A105
23	Gland Cap Screw	Carbon Steel
24	Inline Check	Carbon Steel/Stainless Steel
25	Lube/Sealant Injector	Carbon Steel/Stainless Steel
26	Stem Packing Injector	Carbon Steel/Stainless Steel
27	Stud	A193 B7M
28	Nut	A194 2HM
29	Key	AISI 1045
30	Gear	Carbon Steel/Stainless Steel
31	Handwheel	Carbon Steel/Stainless Steel

	SIZE		A - RF	A-RTJ	H1	H3	W	WGT LBS/KG
1500	IN	14	49.5	50.2	16.97	37.36	24	*
	MM	350	1257	1276	431	949	600	*
	IN	16	54.5	55.4	19.41	38.27	24	7900
	MM	400	1384	1407	493	927	600	3583
	IN	18	60.5	61.4	21	40.75	32	*
	MM	450	1537	1559	534	1035	800	*

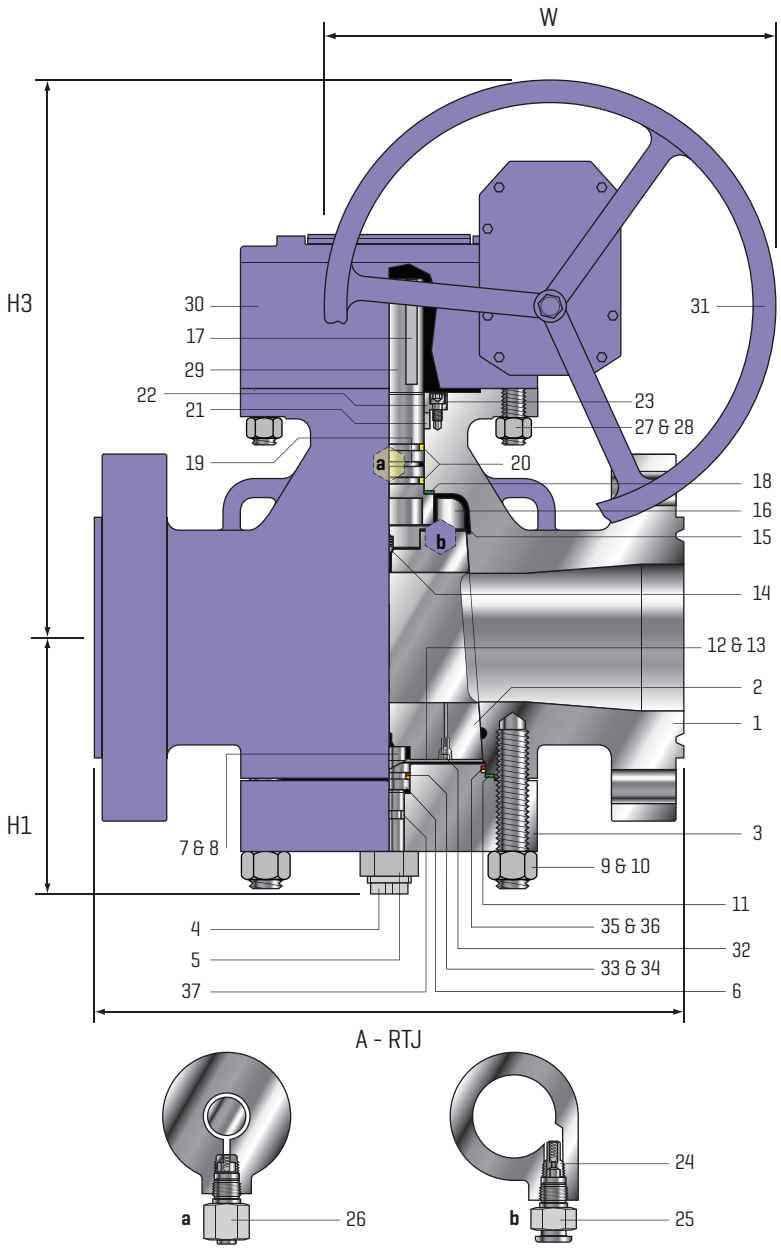
Regular Pattern - Pressure Balanced Lubricated Plug Valves
Size: 2” - 3” Class: 2500



No	Name Of Part	Material
1	Body	A216 WCC
2	Plug	CA15 + Nitriding
3	Bonnet	A105
4	Plug Adjustment Screw	A193 B7M
5	Plug Adjustment Lock Nut	Carbon Steel
6	Lower Pivot Disc	AISI 1035
7	Upper Pivot Disc	AISI 1035
8	Pivot Center	AISI 1035
9	Stud	A193 B7M
10	Nut	A194 2HM
11	Gasket	Flexible Graphite + 304
12	Washer	304SS
13	Steel Spacer	A36
14	Ball Spring Check	304SS
15	Lube/Sealant Reservior	/
16	Stem Plug Adapter	A105
17	Stem	A276 410
18	Thrust Bearing	PTFE
19	Grease Groove	/
20	O Ring	Viton
21	Packing	Flexible Graphite
22	Top Cover	A105 WCC
23	Gland Cap Screw	Carbon Steel
24	Inline Check	Carbon Steel/Stainless Steel
25	Lube/Sealant Injector	Carbon Steel/Stainless Steel
26	Stem Packing Injector	Carbon Steel/Stainless Steel
27	Lever	Carbon Steel
28	Hub	Carbon Steel
29	Indicator Stop Plate	Carbon Steel
30	Stop Plate Retainer	AISI 1566
31	Set Screw	Carbon Steel
32	Inline Check	Carbon Steel/Stainless Steel

2500	SIZE		A - RF	A - RTJ	H1	H2	W	WGT LBS/KG
	IN	2	17.8	17.87	5.71	7.52	40	163
	MM	50	451	454	145	191	1000	82
	IN	3	22.8	22.99	7.6	9.21	40	342
	MM	75	578	584	193	234	1000	155

Regular Pattern - Pressure Balanced Lubricated Plug Valves
Size: 4” - 12” Class: 2500



No	Name Of Part	Material
1	Body	A216 WCC
2	Plug	CA15 + Nitriding
3	Bonnet	A105
4	Plug Adjustment Screw	A193 B7M
5	Plug Adjustment Lock Nut	Carbon Steel
6	Lower Pivot Disc	AISI 1035
7	Upper Pivot Disc	AISI 1035
8	Pivot Center	AISI 1035
9	Stud	A193 B7M
10	Nut	A194 2HM
11	Gasket	Flexible Graphite + 304
12	Washer	304SS
13	Steel Spacer	A36
14	Ball Spring Check	304SS
15	Lube/Sealant Reservior	/
16	Stem Plug Adapter	A105
17	Stem	A276 410
18	Thrust Bearing	PTFE
19	Grease Groove	/
20	O Ring	Viton
21	Packing	Flexible Graphite
22	Top Cover	A105
23	Gland Cap Screw	Carbon Steel
24	Inline Check	Carbon Steel/Stainless Steel
25	Lube/Sealant Injector	Carbon Steel/Stainless Steel
26	Stem Packing Injector	Carbon Steel/Stainless Steel
27	Stud	A193 B7
28	Nut	A194 2H
29	Key	AISI 1045
30	Gear	Carbon Steel/Stainless Steel
31	Handwheel	Carbon Steel/Stainless Steel
32	Inline Check	Carbon Steel/Stainless Steel
33	O Ring	Viton
34	Back Ring	PTFE
35	O Ring	Viton
36	Back Ring	PTFE
37	Packing	Flexible Graphite

CLASS 2500	SIZE		A - RF	A - RTJ	H1	H3	W	Gear	WGT LBS/KG
	IN	4	26.5	26.89	9.92	23.7	24	308W	570
	MM	100	673	683	252	602	600		259
	IN	6	36	36.5	11.85	29.72	24	308W	1440
	MM	150	914	927	301	755	600		653
	IN	8	40.2	40.87	13.39	30.98	24	408W	2370
	MM	200	1022	1038	340	787	600		1075
	IN	10	50	50.87	15.59	32.83	24	508W	4050
	MM	250	1270	1292	396	834	600		1837
	IN	12	56	56.89	17.8	34.84	24	508W	5730
	MM	300	1422	1445	452	885	600		2599

Pressure Temperature Ratings - ASME B16.34

Note: Pressures in PSI

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

Pressure Temperature Ratings - ASME B16.34

Note: Pressures in PSI

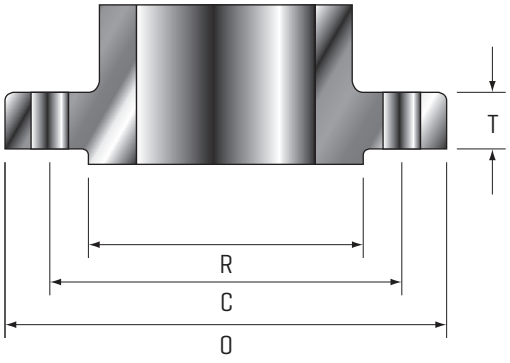
	Temp. F	A105	WCB	LF2	WCC	LCB	WC6	LCC	C5	C12	C12A	316	CF8M	F51	F53
600	-20 to 100	1480	1480	1480	1500	1395	1500	1500	1500	1500	1500	1440	1440	1500	1500
	200	1360	1360	1360	1500	1320	1500	1500	1500	1500	1500	1240	1240	1490	1490
	300	1310	1310	1310	1455	1275	1445	1455	1455	1455	1455	1120	1120	1335	1335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

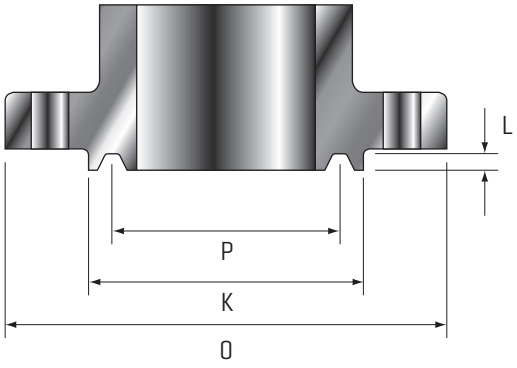
Pressure Temperature Ratings - ASME B16.34

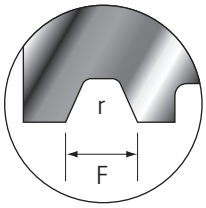
Note: Pressures in PSI

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

Flange Dimensions - ANSI B16.5 & B16.47



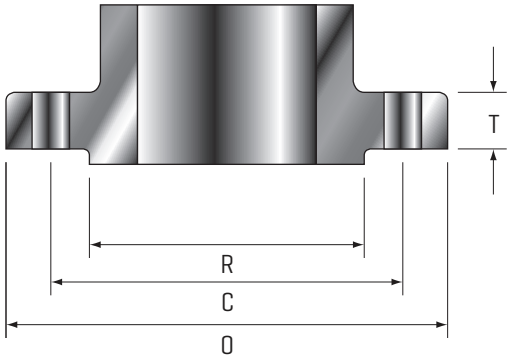


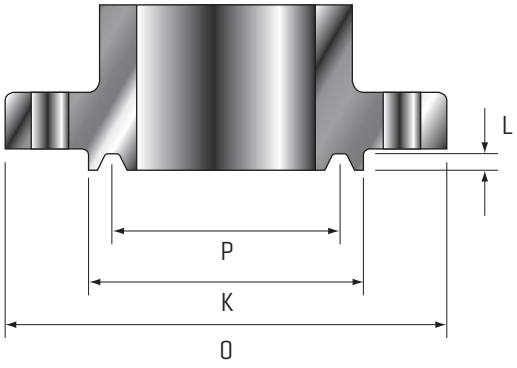


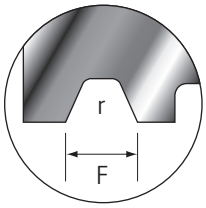
Groove Detail

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	
150	2	6.00	0.75	3.62	4.75	4	0.75	4.00	3.250	0.250	0.344	0.03	R22
	2.5	7.00	0.88	4.12	5.50	4	0.75	4.75	4.000	0.250	0.344	0.03	R25
	3	7.50	0.94	5.00	6.00	4	0.75	5.25	4.500	0.250	0.344	0.03	R29
	4	9.00	0.94	6.19	7.50	8	0.75	6.75	5.875	0.250	0.344	0.03	R36
	6	11.00	1.00	8.50	9.50	8	0.88	8.62	7.625	0.250	0.344	0.03	R43
	8	13.50	1.12	10.62	11.75	8	0.88	10.75	9.750	0.250	0.344	0.03	R48
	10	16.00	1.19	12.75	14.25	12	1.00	13.00	12.000	0.250	0.344	0.03	R52
	12	19.00	1.25	15.00	17.00	12	1.00	16.00	15.000	0.250	0.344	0.03	R56
	14	21.00	1.38	16.25	18.75	12	1.12	16.75	15.625	0.250	0.344	0.03	R59
	16	23.50	1.44	18.50	21.25	16	1.12	19.00	17.875	0.250	0.344	0.03	R64
	18	25.00	1.56	21.00	22.75	16	1.25	21.50	20.375	0.250	0.344	0.03	R68
	20	27.50	1.69	23.00	25.00	20	1.25	23.50	22.000	0.250	0.344	0.03	R72
	22	29.50	1.81	25.25	27.25	20	1.38	/	/	/	/	/	/
	24	32.00	1.88	27.25	29.50	20	1.38	28.00	26.500	0.250	0.344	0.03	R76
	26	34.25	2.69	29.50	31.75	24	1.38	/	29.500	0.500	0.781	0.060	R93
	28	36.50	2.81	31.50	34.00	28	1.38	/	31.500	0.500	0.781	0.060	R94
	30	38.75	2.94	33.75	36.00	28	1.38	/	33.750	0.500	0.781	0.060	R95
	32	41.75	3.19	36.00	38.50	28	1.62	/	36.000	0.562	0.906	0.060	R96
	34	43.75	3.25	38.00	40.50	32	1.62	/	38.000	0.562	0.906	0.060	R97
	36	46.00	3.56	40.25	42.75	32	1.62	/	40.250	0.562	0.906	0.060	R98
300	2	6.50	0.88	3.62	5.00	8	0.75	4.25	3.250	0.312	0.469	0.03	R23
	2.5	7.50	1.00	4.12	5.88	8	0.88	5.00	4.000	0.312	0.469	0.03	R26
	3	8.25	1.12	5.00	6.62	8	0.88	5.75	4.875	0.312	0.469	0.03	R31
	4	10.00	1.25	6.19	7.88	8	0.88	6.88	5.875	0.312	0.469	0.03	R37
	6	12.50	1.44	8.50	10.62	12	0.88	9.50	8.312	0.312	0.469	0.03	R45
	8	15.00	1.62	10.62	13.00	12	1.00	11.88	10.625	0.312	0.469	0.03	R49
	10	17.50	1.88	12.75	15.25	16	1.12	14.00	12.750	0.312	0.469	0.03	R53
	12	20.50	2.00	15.00	17.75	16	1.25	16.25	15.000	0.312	0.469	0.03	R57
	14	23.00	2.12	16.25	20.25	20	1.25	18.00	16.500	0.312	0.469	0.03	R61
	16	25.50	2.25	18.50	22.50	20	1.38	20.00	18.500	0.312	0.469	0.03	R65
	18	28.00	2.38	21.00	24.75	24	1.38	22.62	21.000	0.312	0.469	0.03	R69
	20	30.50	2.50	23.00	27.00	24	1.38	25.00	23.000	0.375	0.531	0.06	R73
	22	33.00	2.62	25.25	29.25	24	1.62	27.00	25.000	0.438	0.594	0.06	R81
	24	36.00	2.75	27.25	32.00	24	1.62	29.50	27.250	0.438	0.656	0.06	R77
	26	38.25	3.31	29.50	34.50	28	1.75	31.88	29.500	0.500	0.781	0.06	R93
	28	40.75	3.56	31.50	37.00	28	1.75	33.88	31.500	0.500	0.781	0.06	R94
	30	43.00	3.75	33.75	39.25	28	1.88	36.12	33.750	0.500	0.781	0.06	R95
	32	45.25	3.94	36.00	41.50	28	2.00	38.75	36.000	0.562	0.906	0.06	R96
	34	47.50	4.12	38.00	43.50	28	2.00	40.75	38.000	0.562	0.906	0.06	R97
	36	50.00	4.38	40.25	46.00	32	2.12	43.00	40.250	0.562	0.906	0.06	R98

Flange Dimensions - ANSI B16.5 & B16.47







Groove Detail

Class	Size	Flg. Dia.	Flg. Thick.	Raised Face Dia.	Drilling			Face Dia.	Ring Joint				
					Bolt CIrcle Dia.	# of Bolts	Hole Dia.		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

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.** — **Cancellation Charge: 10%**
- **Time of cancellation: After start of engineering but prior to release to production.** — **Cancellation Charge: 30%**
- **Time of cancellation: After release to production but prior to completion of fabrication.** — **Cancellation Charge: 80%**
- **Time of cancellation: After completion of fabrication.** — **Cancellation Charge: 100%**

Return of Goods

No product shall be returned to seller without written authorization and shipping instructions having been obtained from seller. Products authorized for returns are to be shipped freight pre-paid to the SCV 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,

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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