the pressure equipment safety authority

9410 - 20 Ave N.W.
Edmonton, Alberta, Canada T6N 0A4
Tel: (780) 437-9100 / Fax: (780) 437-7787

January 22, 2025

Attention: Cecylia Garbacz
TECHNICAL STANDARDS & SAFETY AUTHORITY
345 CARLINGVIEW DRIVE
TORONTO, ON M9W 6N9

The design submission, Tracking Number 2024-05922, Web Portal Number 2024-S4264, originally received on October 03, 2024 was surveyed and accepted for registration as follows:

CRN : 0C25413.52 **Accepted on:** January 22, 2025

Reg Type: NEW DESIGN **Expiry Date:** August 06, 2034

Drawing No. : CRN Scope of Registration As Noted

Fitting type: Gate, Check, Ball and Plug Valve

Design registered in the name of : SCV VALVE

Description	MAWP	Design Temperature
See Scope of Registration		

The registration is conditional on your compliance with the following notes:

- The scope of this registration includes the following catalogs: scv_full_port_swing_checks_031819_ebrochure Rev. SCVFPSCV – 031819, scv_lubricatedplug_031819_ebrochure Rev. SCVPBLPV – 031819, scv_pistoncheck_052721_ebrochure Rev. SCVPCK – 052721, scv_thruconduitgate_031819_ebrochure Rev. SCVTCGV – 031819, scv_trunnionballvalve_6d_031819_ebrochure Rev. SCVTBV6D – 031819, and the attached drawings for 40" and 42" EPG and TCG valves.

- Only valves that fully meet ASME B16.34 are covered by this CRN, and it is our understanding that those valves that are in strict compliance with ASME B16.34, with respect to dimensions, pressure and temperature ratings, materials, markings etc.

- Per client clarification the valves are not designed to Section VIII and they are designed to the following standards, ASME B16.34, API6A, API6D.

As indicated on Statutory Declaration and submitted documentation, the code of construction are B16.34.
- It is our understanding that the fitting(s), included as the scope of this submission, that is(are) subject to the Safety Codes Act shall comply with the requirements of the indicated Standard or Code of Construction on the AB-41 Statutory Declaration or AB-351 Declaration of Conformity as supported by the attached data which identifies the dimensions, materials of construction, press./temp. ratings and the basis for such ratings, and the identification marking of the fittings.
- This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to the accepted AB-41 Statutory Declaration or AB-351 Declaration of Conformity form.
- This registration is valid only until the indicated expiry date and only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency, and maintains a valid Certification of Authorization Permit if required by the jurisdiction where manufacturing takes place, until that date.
- Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

If you have any question don't hesitate to contact me by phone at (587) 943-8741 or fax (403) 291-4545 or e-mail Zhangl@absa.ca.

Sincerely,

Continued on the next page…

the pressure equipment safety authority

9410 - 20 Ave N.W.
Edmonton, Alberta, Canada T6N 0A4
Tel: (780) 437-9100 / Fax: (780) 437-7787

January 22, 2025

Sincerely,



ZHANG, LILI, P. Eng.
DOP Cert. No. D00010626

Technical Standards and Safety Authority
345 Carlingview Drive
Toronto, Ontario M9W 6N9
www.tssa.org

Show facsimile of manufacturer's logo or trademark, as it will appear on the fitting, in the space below

SCV

STATUTORY DECLARATION
Registration of Fittings

I, Ian Chapa, Quality Control Manager
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of SCV Valve, LLC
(Name of Manufacturer)

Located at 3521 FM 646 Road North, Santa Fe, Texas 77510 (281) 482-4728 (281) 482-9728
(Plant Address) *(Telephone No.)* *(Fax No.)*

☑ do solemnly declare that the fittings listed hereunder, which are subject to the ***Technical Standards and Safety Act***, Boilers and Pressure Vessels Regulation, comply with all of the requirements of
ASME B16.34, ASME BPVC Section VIII, API 6D, API 6A
(Title of recognized North American Standard)
which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service;

☐ or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with _____ as supported by the attached data which identifies the dimensions, material of construction, pressure/temperature ratings and the basis for such ratings, the marking of the fitting for identification and service.

I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of ISO 9001 and API Q1 which has been verified by the following authority, API and ABS Quality Evaluations.
The items covered by this declaration, for which I seek registration, are category gate, check, ball, & plug type fittings. In support of this application, the following information and/or test data are attached as follows:
Catalogues and copies API and National Board Certifications
(drawings, calculations, test reports, etc.)

Declared before me at Santa Fe **in the** State **of** Texas

the 10 **day of** August **AD 20**23.

HARLIE BOURQUE
Notary Public, State of Texas
Comm. Expires 09-03-2024
Notary ID 125100594

Commissioner for Oaths:

Harlie Bourque
(Printed name)

Harlie Bourque
(Signature)

(Signature of Declarer)

FOR OFFICE USE ONLY

To the best of my knowledge and belief, the application meets the requirements of the ***Technical Standards and Safety Act***, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category C.

CRN:

Registered by:

Dated:

2024-05922
ABSA
SAFETY CODES ACT - PROVINCE OF ALBERTA
ACCEPTED: 0C25413.52
See acceptance letter for conditions of registration.
Date: 2025-01-22 By:
LILI ZHANG, P. Eng.
DOP: D00010626
This stamp and signature have been affixed electronically to this registered design as required by Section 20(1) of the Pressure Equipment Safety Regulation, in accordance with the Electronic Transactions Act.

NOTE: This registration expires on: 2034-08-06

**Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request.*

PV 09553 (04/17)

2024-05922

Type	Design	Size	Class	Body Material
Ball	API 6D ASME B16.34	2" - 20", 24" - 30", 36", 42" (Full Port)	ANSI 150, 300, 600	A350 LF2 A182 316, A182 F51 Duplex A105, A105N
		2" - 20", 24", 30" (Full Port)	ANSI 900	
		3" - 20", 24", 30", 36", 42" (Reduced Port)	ANSI 150, 300, 600, 900	
		1", 1.5", 2" - 16" (Full Port)	ANSI 1500	
		3" - 20", 24" (Reduced Port)	ANSI 1500	
		1", 1.5", 2" - 12" (Full Port)	ANSI 2500	
		3" - 12" (Reduced Port)	ANSI 2500	
Through Conduit Gate (Slab, Single Piece Gate)	API 6D ASME B16.34	2" - 20", 24", 28", 30", 32", 36", 40", 42"	ANSI 150	A216 WCC A352 LCC A351 CF8M
		2"- 24", 30", 36", 40"	ANSI 300	
		2" - 24", 30", 36"	ANSI 600	
		2" - 20", 24"	ANSI 900	
		2", 4" - 10"	ANSI 1500	
Expanding Gate Valve (2 Piece Gate)	API 6D ASME B16.34	3" - 24", 30", 32", 36", 40"	ANSI 150	A216 WCC A352 LCC A351 CF8M
		2" - 20", 24", 30", 36", 40", 42"	ANSI 300	
		2" - 30", 36"	ANSI 600	
		2" - 20", 24"	ANSI 900	
		2", 4" - 10"	ANSI 1500	
Full Port Swing Check Valve	API 6D ASME B16.34	2" - 36"	ANSI 150 & 300	A216 WCC A352 LCC A351 CF8M
		2" - 30"	ANSI 600 & 900	
		2" - 24"	ANSI 1500	
		2" - 16"	ANSI 2500	
Piston Check Valve	API 6D ASME B16.34	2" - 24"	ANSI 150	A216 WCC A352 LCC A351 CF8M
		2" - 16"	ANSI 300	
		2" - 24"	ANSI 600	
		2" - 12"	ANSI 900, 1500, 2500	
Lubricated Plug Valve	API 6D ASME B16.34	2" - 12" (Short Pattern)	ANSI 150	A216 WCC A352 LCC A351 CF8M
		2" - 12" (Regular Pattern)	ANSI 150	
		14" - 20", 24", 30", 36" (Venturi Pattern)	ANSI 150	
		2" - 6" (Short Pattern)	ANSI 300	
		6" - 12" (Regular Pattern)	ANSI 300	
		14" - 20", 24", 30", 36" (Venturi Pattern)	ANSI 300	
		2" - 12" (Regular Pattern)	ANSI 600	
		14" - 20", 24" (Venturi Pattern)	ANSI 600	
		2" - 12" (Regular Pattern)	ANSI 900	
		14" - 20", 24" (Venturi Pattern)	ANSI 900	
		2" - 12" (Regular Pattern)	ANSI 1500	
		14" - 18" (Venturi Pattern)	ANSI 1500	
		2" - 12" (Regular Pattern)	ANSI 2500	

1) Within the scope of our registration our valves do meet the requirements of ASME B16.34 para. 6.1.

2) End Dimensions for Butt Weld and Flanged valves meet the requirements of ASME B16.34 para.6.2.

3) SCV Designs do conform to the requirements of ASME B16.34 para.6.4 for valve joints.

2024-05922

ABSA

SAFETY CODES ACT - PROVINCE OF ALBERTA

ACCEPTED: **0C25413.52**

See acceptance letter for conditions of registration.

Date: 2025-01-22 By:

LILI ZHANG, P. Eng.
DOP: D00010626

This stamp and signature have been affixed electronically to this registered design as required by Section 20(1) of the Pressure Equipment Safety Regulation, in accordance with the Electronic Transactions Act.

SCV VALVE

Innovative Valve Solutions®



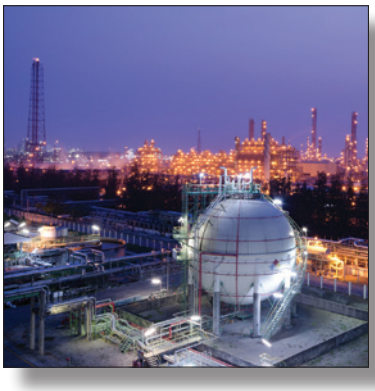
(281) 482-4728 · www.scvvalve.com

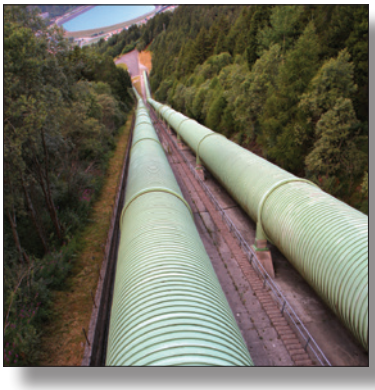
Piston Check Valves - API 6D

Class: 150 - 2500

Sizes: 2” - 24”









2024-05922

ABSA

SAFETY CODES ACT - PROVINCE OF ALBERTA

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SCV VALVE









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

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

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

Innovative Valve Solutions.®

SCV Piston & Dual Plate Check Valves

[Product Preview]

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

Piston Check Valves - API 6D

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



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.

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Complete Product Line

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

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

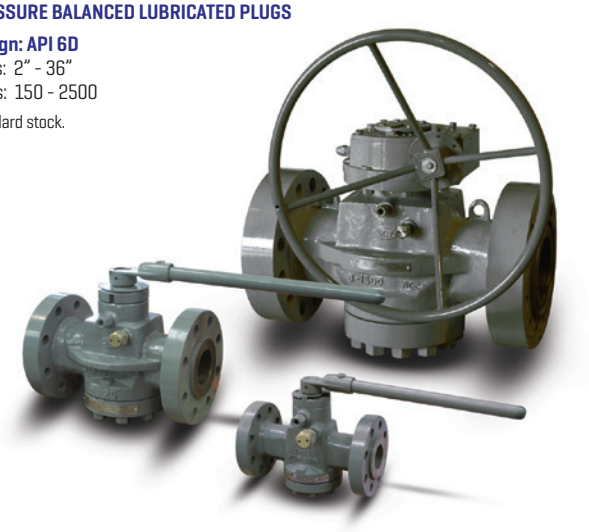
Standard stock.



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

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

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.

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

EU Notified Body No. 1521
Company registered in England #7217086
© HPi Verification Services Ltd. 2019
HPi Verification Services Ltd.
The Manor House
Howbery Park, Wallingford
OX10 8BA, United Kingdom

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

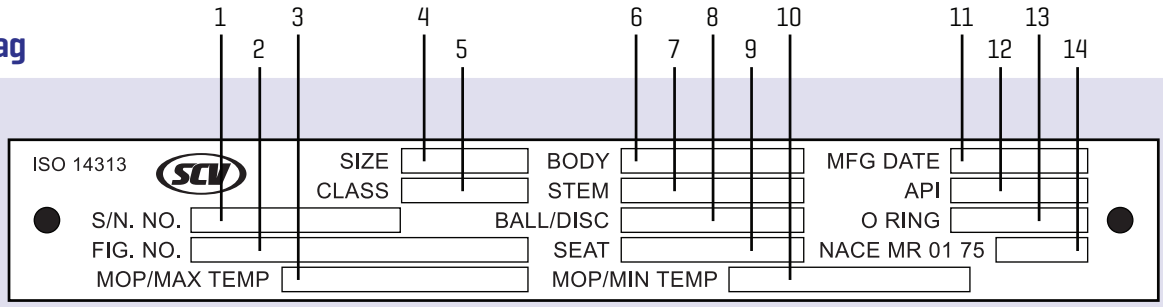
	Figure No. Chart Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Pressure Classes	**Type**	**Size**	**Class**	**Body Conf.**	**Body**	**Obturator**	**End**	**Oper**	**Bore Type**	**Seal**	**Seat.base**	**Seat/Insert**	**Stem**	**Packing**	**Service**
TRUNNION BALL	150, 300, 600	BAL	12	06	B	12	15	R	G	F	H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

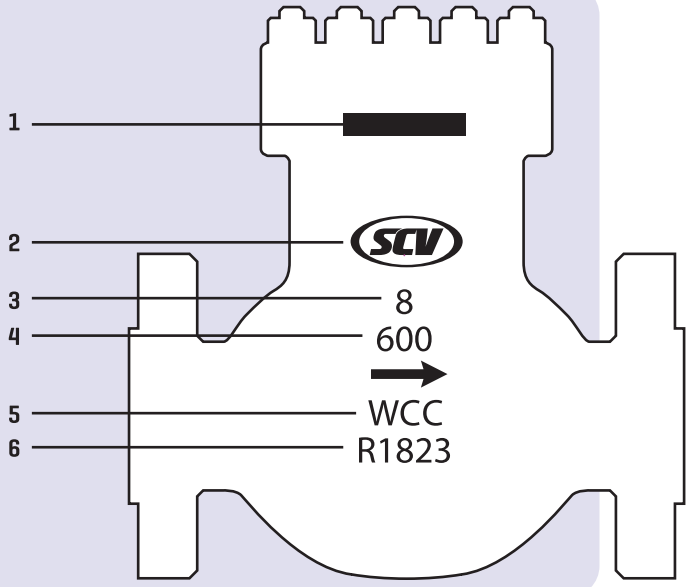
Valve ID Tag



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









Piston Check Valves - API 6D

Class: 150 - 2500/Sizes: 2” - 24”

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

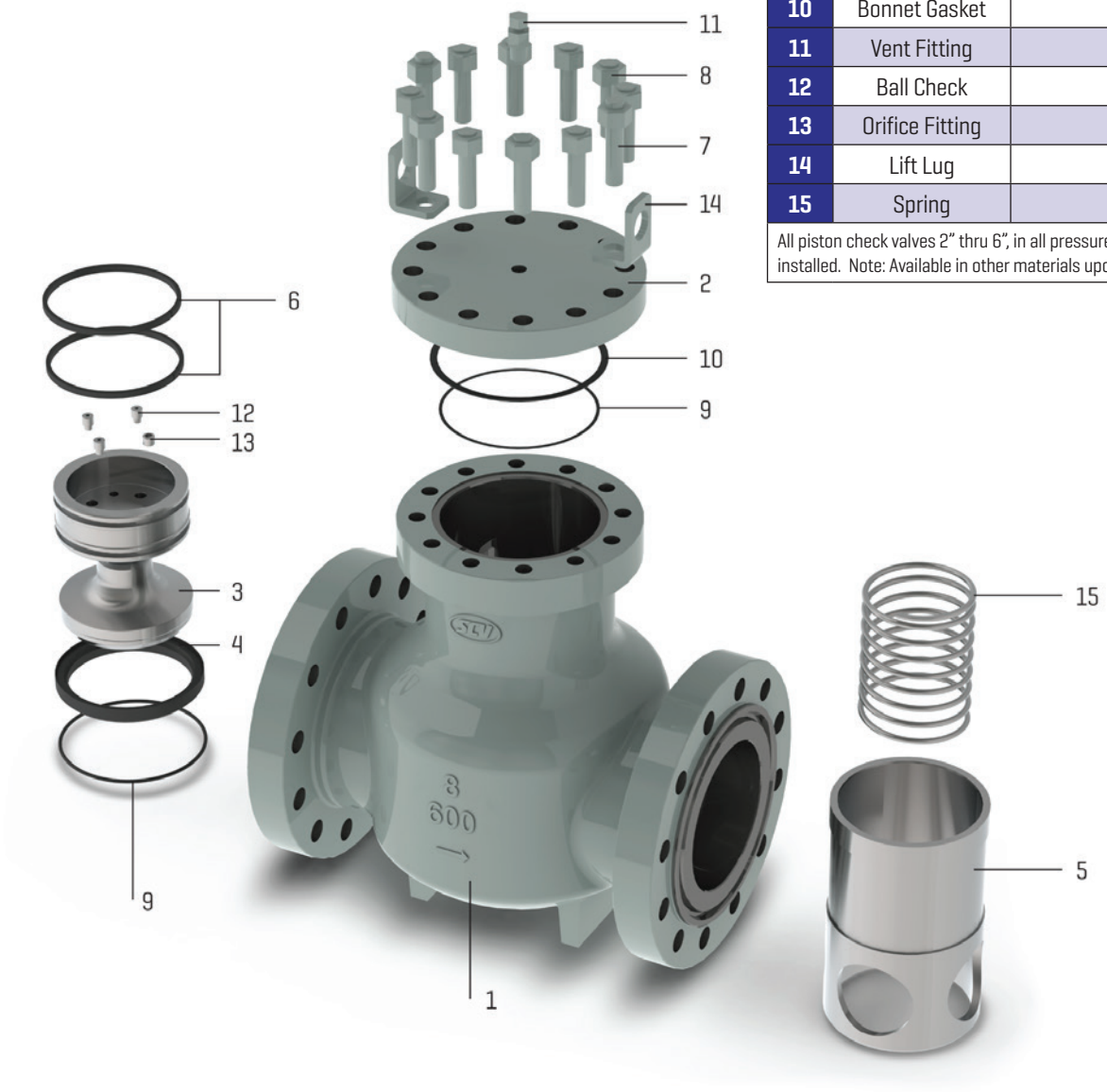


Piston Check Valve

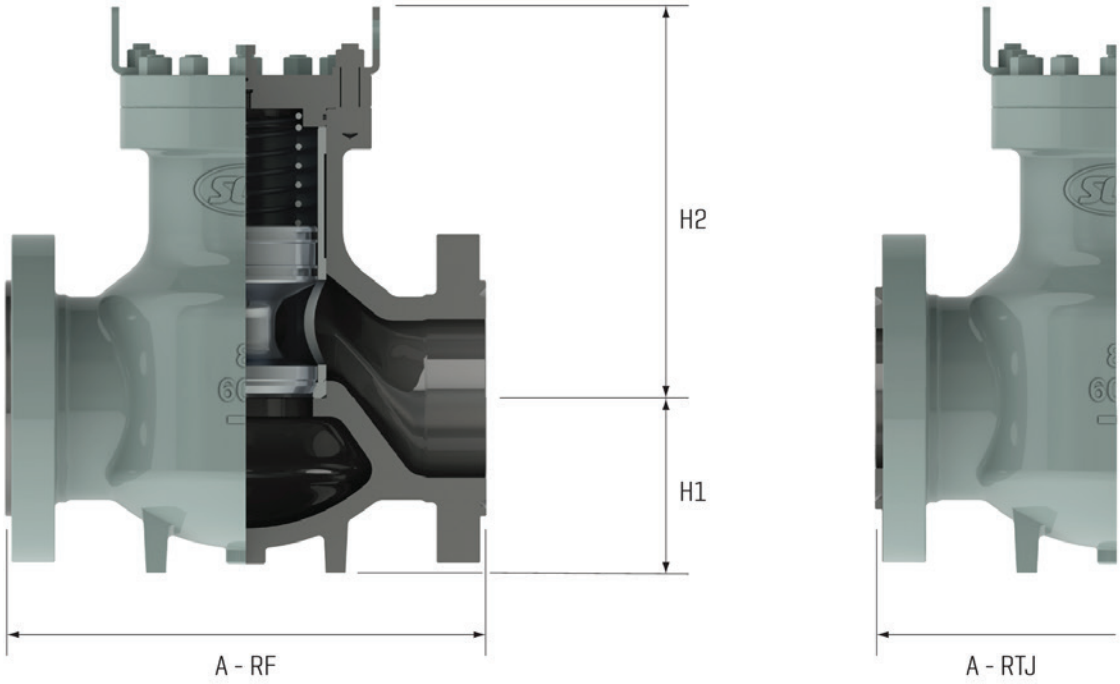
[Expanded View & Bill of Materials]

No.	Part	WCC
1	Body	A216 WCC
2	Bonnet	A105
3	Piston	A105+NI-TRID+ST. 6
4	Seat	A105+St. 6
5	Cage	A105+ENP
6	Piston Ring	PEEK/Glass Filled
7	Stud	A193 B7M
8	Heavy Hex Nut	A193 2HM
9	O-ring	Viton AED
10	Bonnet Gasket	SS/Graphite
11	Vent Fitting	316 SS
12	Ball Check	316 SS
13	Orifice Fitting	316 SS
14	Lift Lug	Steel
15	Spring	X-750

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



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

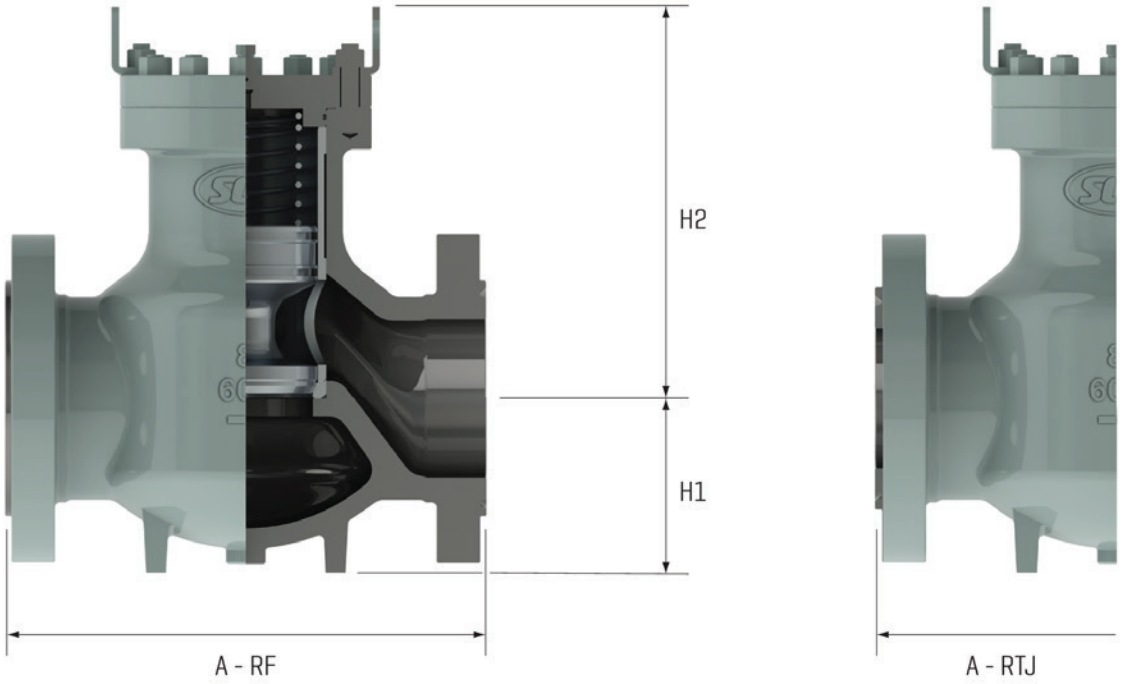


Note: Butt Weld configuration is available upon request.

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

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

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

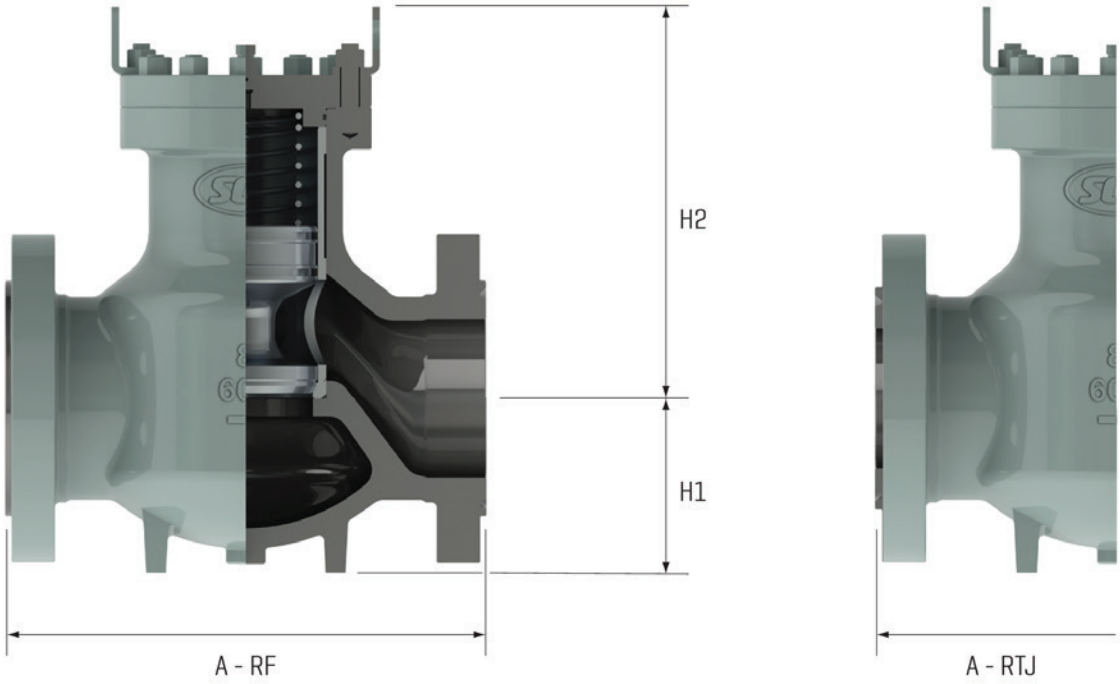


Note: Butt Weld configuration is available upon request.

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

CLASS 900	SIZE	NPS	3	4	6	8	10	12
		DN	80	100	150	200	250	300
	A - RF	IN	14.875	19.375	21.875	24.875	31.375	33.875
		MM	378	492	556	632	797	860
	A - RTJ	IN	15	19.5	22	25	31.5	33.125
		MM	381	495	559	635	800	857
	H1	IN	5.25	5.375	7	9.25	11.75	13.125
		MM	133	137	178	235	298	333
	H2	IN	10.25	12.125	18	20.25	24.25	25.125
		MM	260	308	457	514	616	638
	WGT (RF)	LB	159	285	590	948	1655	2301
		KG	72	129	268	430	751	1044

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

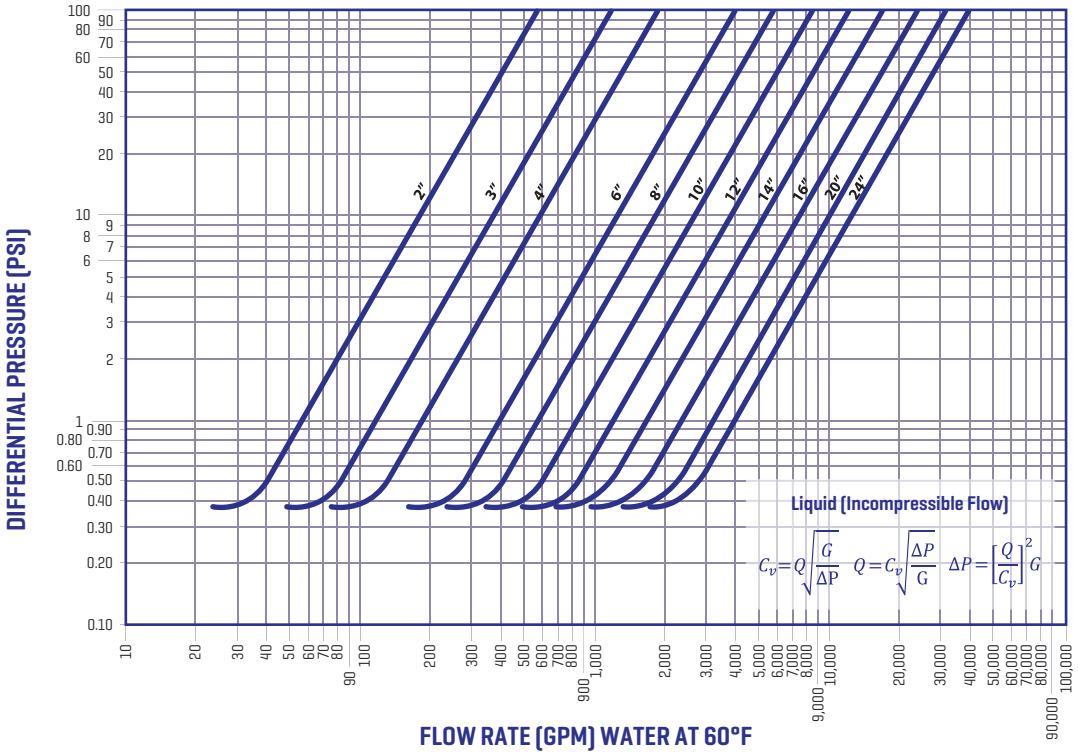


Note: Butt Weld configuration is available upon request.

CLASS 1500	SIZE	NPS	2	3	4	6	8	10	12
		DN	50	80	100	150	200	250	300
	A - RF	IN	13.625	17.25	20.25	24	32.375	34.375	41
		MM	346	438	514	610	822	873	1041
	A - RTJ	IN	13.75	17.325	20.375	24.25	32.75	35	41.675
		MM	349	440	518	616	832	889	1059
	H1	IN	3.25	5.25	5.375	7	9.25	11.75	13.125
		MM	83	133	137	178	235	298	333
	H2	IN	8.5	10.25	12.125	18	20.25	24.25	25.125
		MM	216	260	308	457	514	616	638
	WGT (RF)	LB	111	207	362	803	1320	2183	2301
		KG	50	94	164	364	599	990	1044

CLASS 2500	SIZE	NPS	2	3	4	6	8
		DN	50	80	100	150	200
	A - RF	IN	14.875	20.25	23.125	32	37.375
		MM	378	512	587	813	949
	A - RTJ	IN	15	20.5	23.5	32.5	38
		MM	381	521	597	826	965
	H1	IN	3.25	5.25	5.375	7	9.25
		MM	83	133	137	178	235
	H2	IN	8.5	10.25	12.125	18	20.25
		MM	216	260	308	457	514
	WGT (RF)	LB	151	320	513	1327	2068
		KG	68	145	233	602	938

Liquid: Pressure Loss Curves for Piston Check Valves

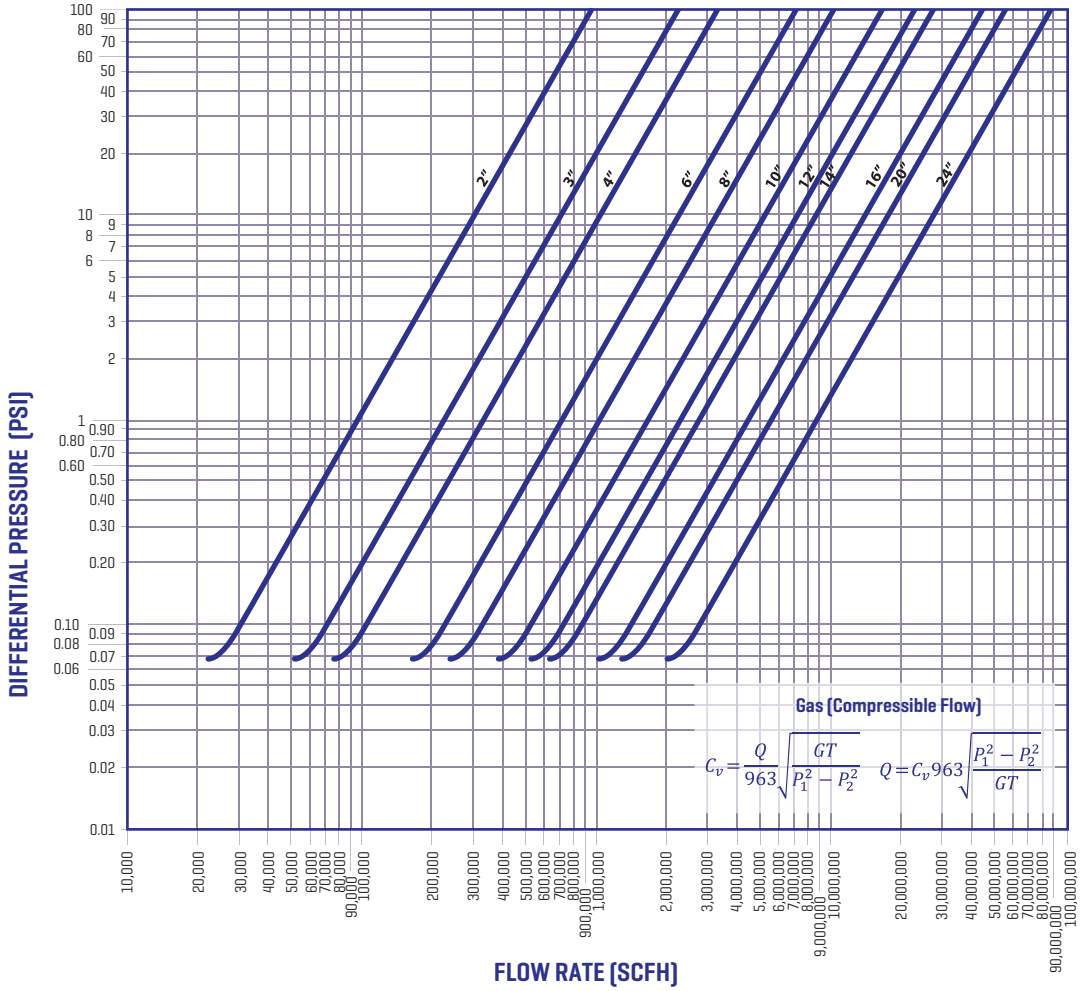


Flow Coefficient for Fully Open Valves	
2	59
3	125
4	193
6	400
8	587
10	868
12	1,196
14	1,604
16	2,193
20	3,114
24	4,082

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

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

Gas: Pressure Loss Curves for Piston Check Valves



Flow Coefficient for Fully Open Valves	
2	45
3	99
4	150
6	327
8	479
10	757
12	1,025
14	1,250
16	2,001
20	2,689
24	4,090

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

Glossary of Terms	
Q	Flow Rate - (SCFH)
Cv	Flow Coefficient
P_1	Inlet Pressure - (psi)
P_2	Outlet Pressure - (psi)
ΔP	Pressure Drop (P_1 - P_2)
G	Specific Graqvity (Dry Air = 1)
T	Temperature (°F+460)

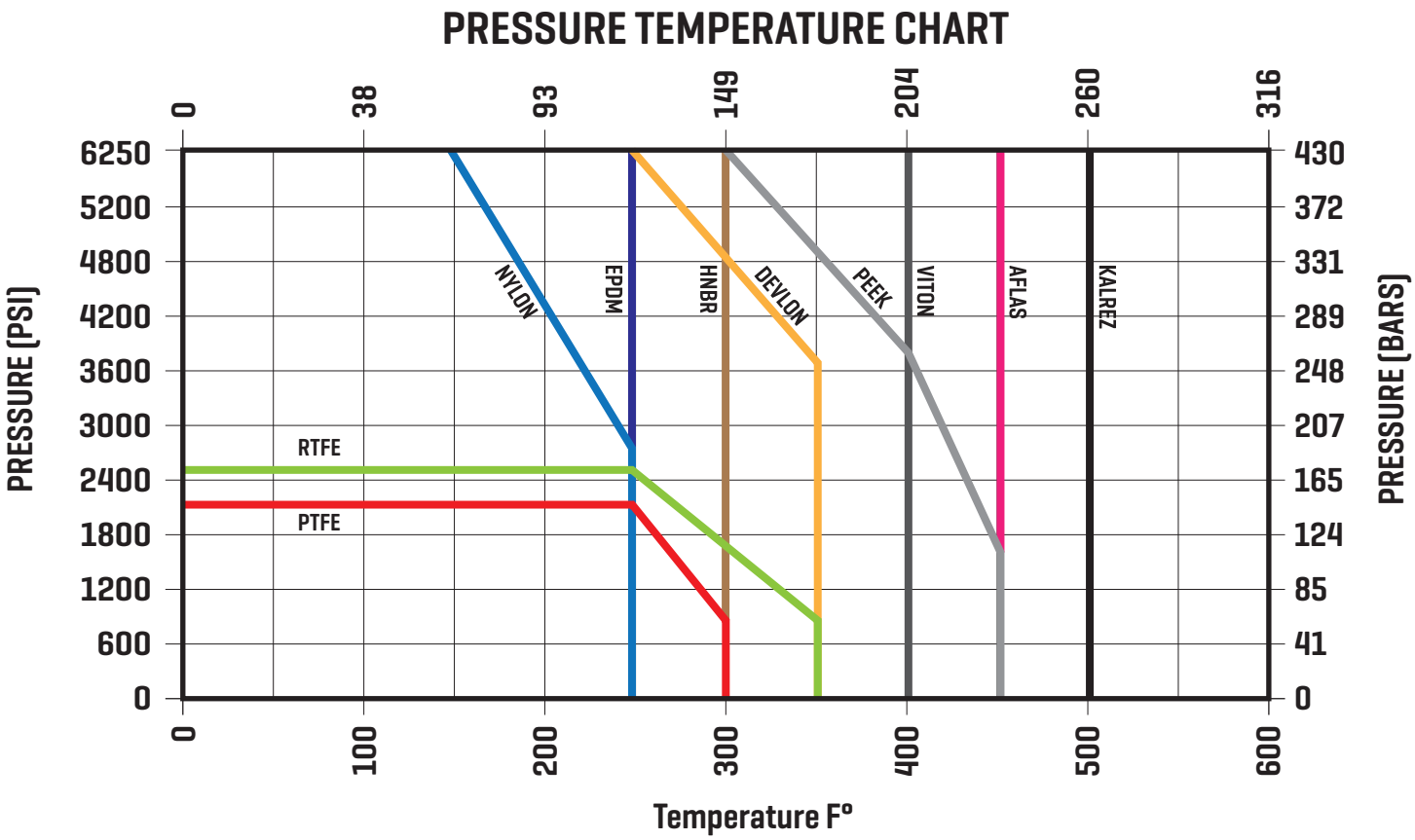
Seal & Seat Pressure Temperature Chart

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

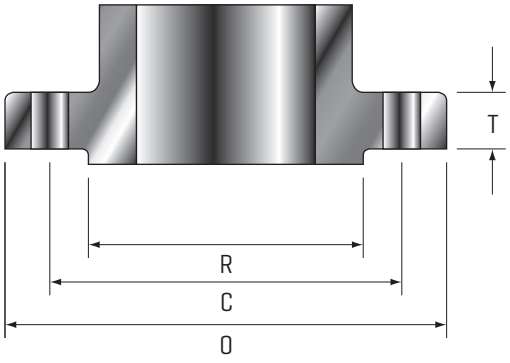
SCV VALVE SOFT GOOD CHEMICAL COMPATIBILITY

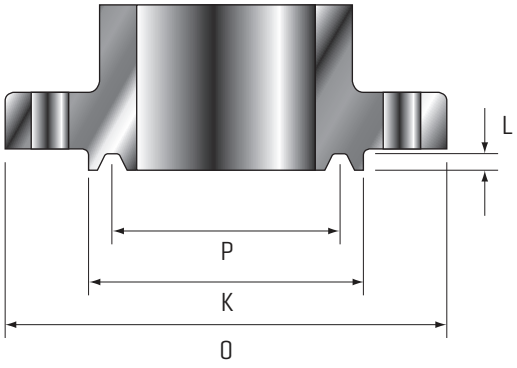
	SEAL MATERIAL			SEAT MATERIAL			
	Viton	HNBR	Kalrez	RTFE	Nylon	Devlon	PEEK
Amines	X	X	●	●	X	X	●
Ammonia	X	X	●	●	●	●	●
Butane	●	●	●	●	●	●	●
Carbon Dioxide	●	●	●	●	●	●	●
Crude Oil	●	●	●	●	●	●	●
Ethane	●	●	●	●	X	X	●
Ethylene	●	●	●	●	●	●	●
Glycol	●	●	●	●	●	X	●
Hydrocarbon	●	●	●	●	●	●	●
Hydrogen	●	●	●	●	●	●	●
Jet Fuel	*	*	●	●	X	X	●
Methane	●	●	●	●	●	●	●
Natural Gas	●	●	●	●	●	●	●
Nitrogen	●	●	●	●	●	●	●
Propane	●	●	●	●	●	●	●
Propylene	●	X	●	●	●	●	●

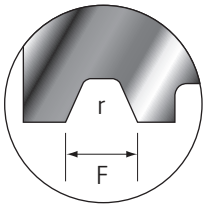
* Viton OK for JP-3/4/5/6/8/9/10. * HNBR OK for JP-3/4/5/6.



Flange Dimensions - ANSI B16.5 & B16.47



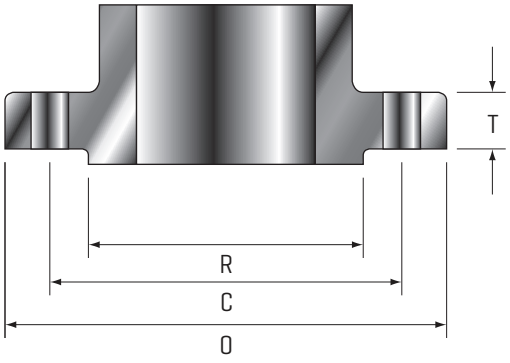


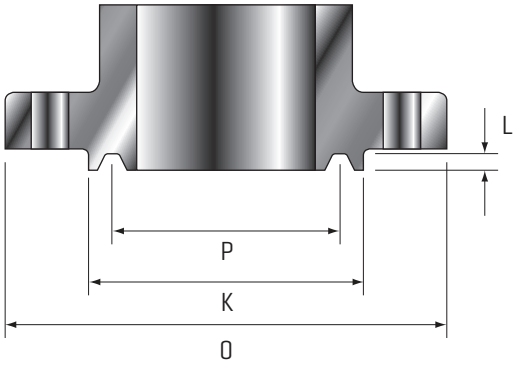


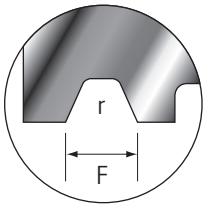
Groove Detail

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

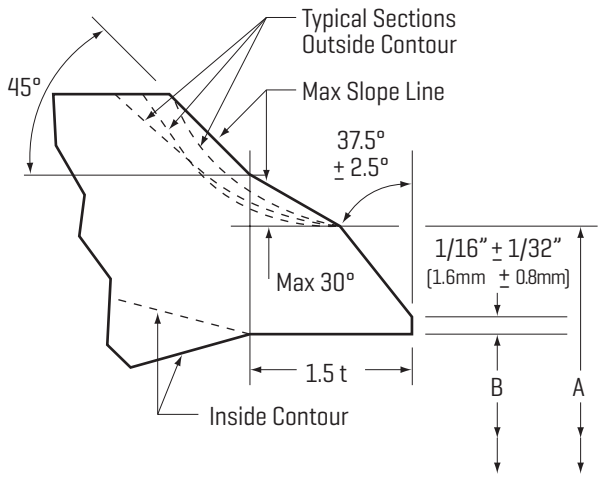
Butt-welding Dimensions - ANSI B16.25

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

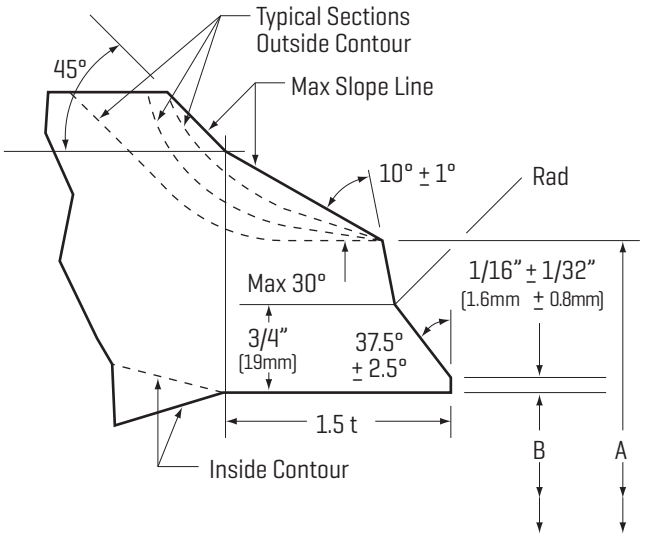
Plain Bevel Butt-welding End for Pipe Wall Thickness is 7/8" (22.23mm) or less.

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



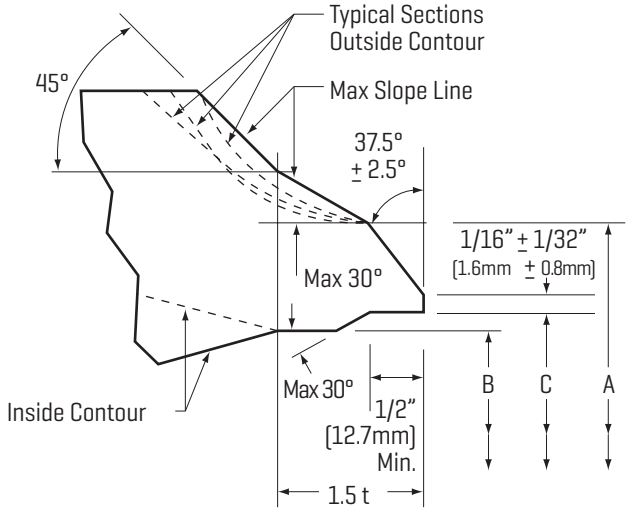
Compound Bevel Butt-welding End for Pipe Wall Thickness Greater than 7/8" (22.23mm).

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



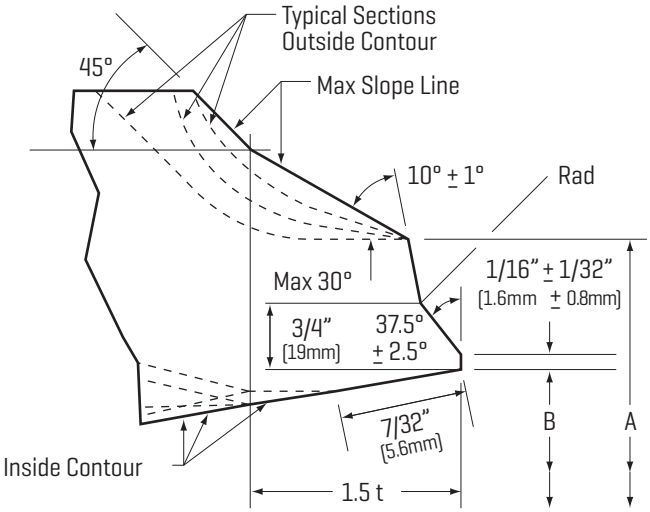
Plain Bevel Butt-welding End for Pipe Wall Thickness is 7/8" (22.23mm) or less.

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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Standard Features

- Sizes: 2" thru 24"
- Class: 150 - 2500
- Basic Design: API 6D
- Wall Thickness: API 6D
- Face-to-Face: As stated
- Flange End Dimensions: ANSI/ASME 16.5
- Butt-Weld End Dimensions: ANSI/ASME B16.25
- Inspection & Testing: API 6D



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- Wedge Gates



Terms & Conditions

Quotation Validity

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

Shipments

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

Force Majeure

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

Payment terms

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

Purchase Orders

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

Prices

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

Intellectual Property

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

Governing Law; Arbitration; Jurisdiction

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

Warranty

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

Limitation of Liability

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

Cancellation

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

Cancellation Charge

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

- **Time of cancellation: Order Acknowledgement and prior to Engineering engagement.** **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.

SALES, PROJECTS, ENGINEERING, MANUFACTURING, & WAREHOUSING
3521 FM 646 Rd. North
Santa Fe, TX 77510
Phone: (281) 482-4728
Fax: (281) 482-9728
Hours: 8:00 a.m. to 5:00 p.m. Central Standard
Email: sales@scvvalve.com

SCV VALVE

(281) 482-4728 · www.scvvalve.com

Rev: SCVPCK - 052721

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" - 36"

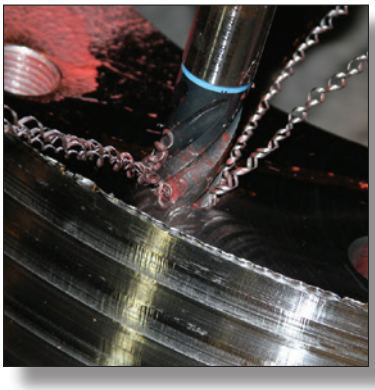


SCV VALVE









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

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

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

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

Company History

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

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

Mission Statement

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

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Complete Product Line

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

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

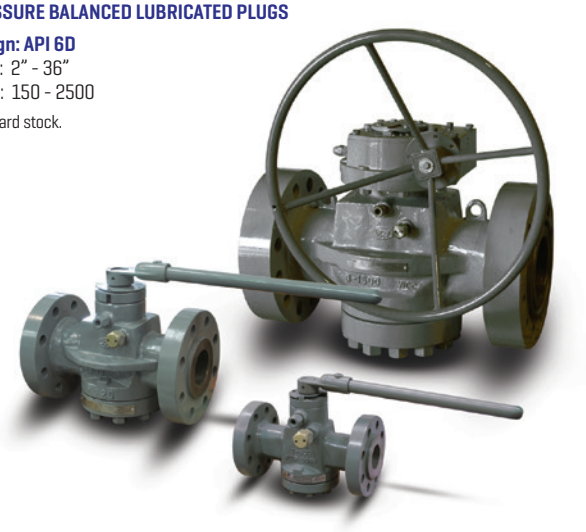
Standard stock.



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: JANUARY 16, 2018
Expiration Date: DECEMBER 6, 2019

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

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, 2016
Expiration Date: DECEMBER 6, 2019

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

American Petroleum Institute

Note: Extension letter availavle on our website.

ISO 9001:2008 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: 12 August 2018
Expiration Date: 15 June 2019
Issue Date: 12 August 2018

Alex Weisselberg, 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. 16855 Northchase Drive, Houston, TX 77060, U.S.A.
Validity of this certificate may be confirmed at www.abs-qe.com/cert_validation.
Copyright 2011-2018 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-03
Date of Issue: 28-Jul-2016
Date of Expiry: 24-Jun-2019
Surveillance due Jun 2017

Manufacturer: SCV Valve
- 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: Each valve CE marked

Other Certification Standards Applied: ABSQE ISO 9001 cert 44073 exp. Sep.2018
API 6A, API 6D

Report Reference: HPiVS/P1012-055-3

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 Notified Body number should also be placed on the equipment

Managing Director
Technical Manager

CE
EU Notified Body No. 1521
Company registered in England #7217086
© HPi Verification Services Ltd. 2016
HPi Verification Services Ltd.
The Manor House
Hoobery Park, Wallingford
OX10 8BA, United Kingdom

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

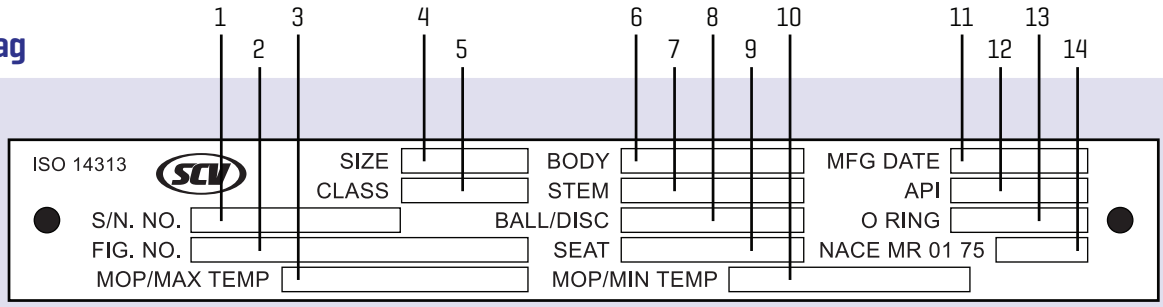
	Figure No. Chart Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Pressure Classes	**Type**	**Size**	**Class**	**Body Conf.**	**Body**	**Obturator**	**End**	**Oper**	**Bore Type**	**Seal**	**Seat.base**	**Seat/Insert**	**Stem**	**Packing**	**Service**
TRUNNION BALL	150, 300, 600	BAL	12	06	B	12	15	R	G	F	H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

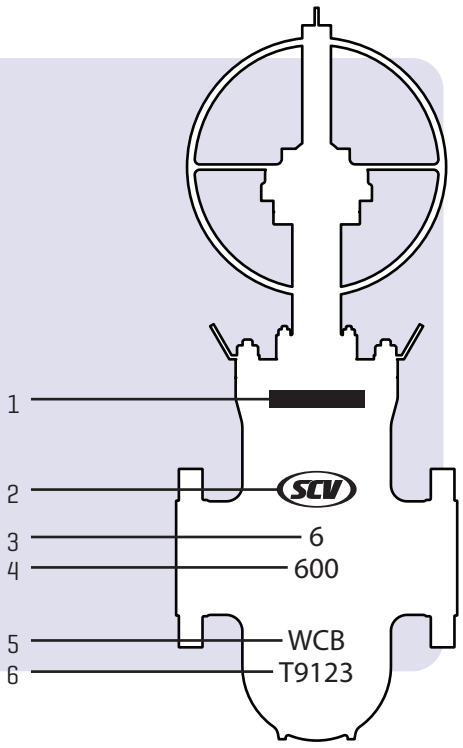
Valve ID Tag



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

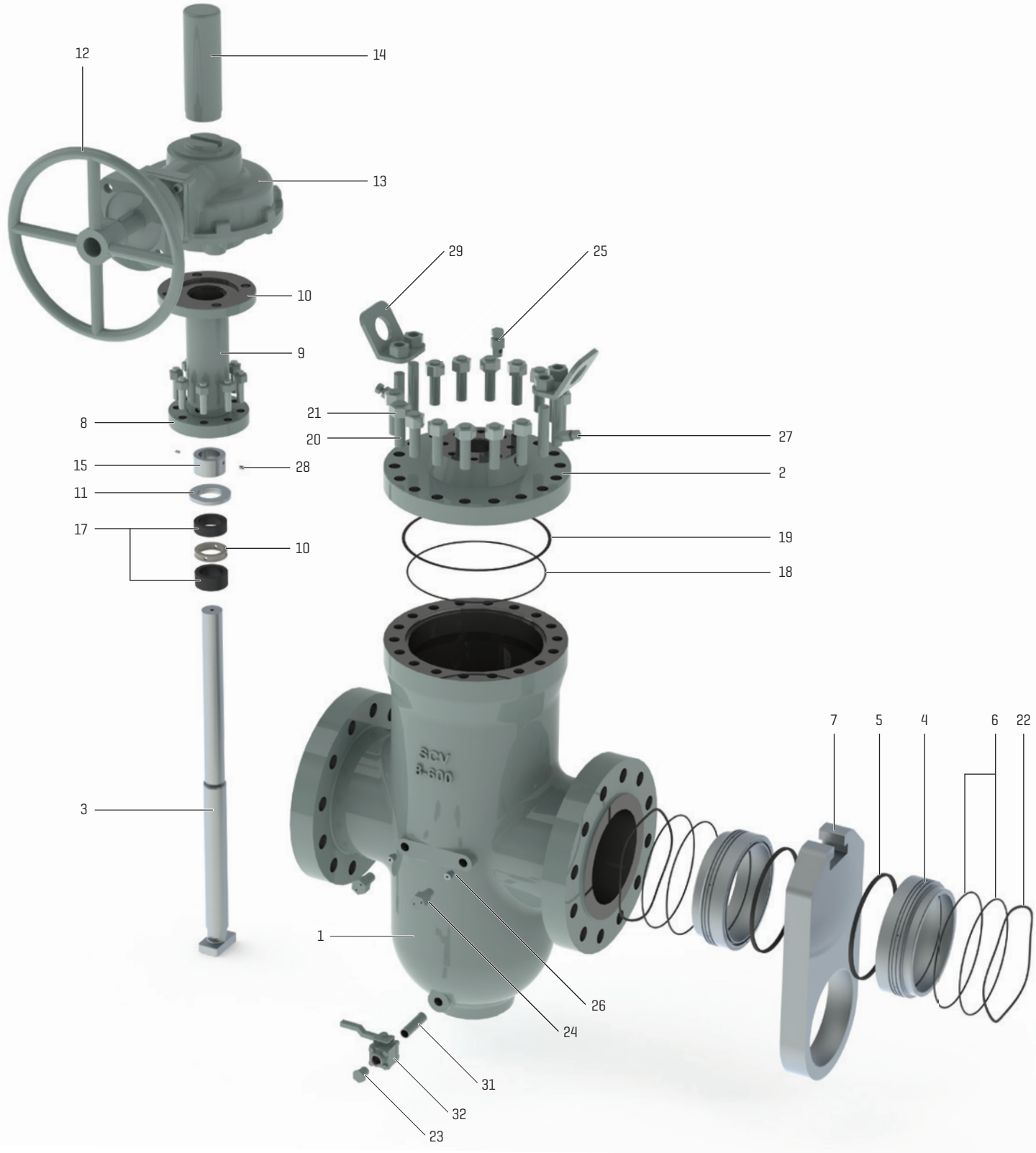
Class: 150 - 1500/Sizes: 2" - 36"

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)

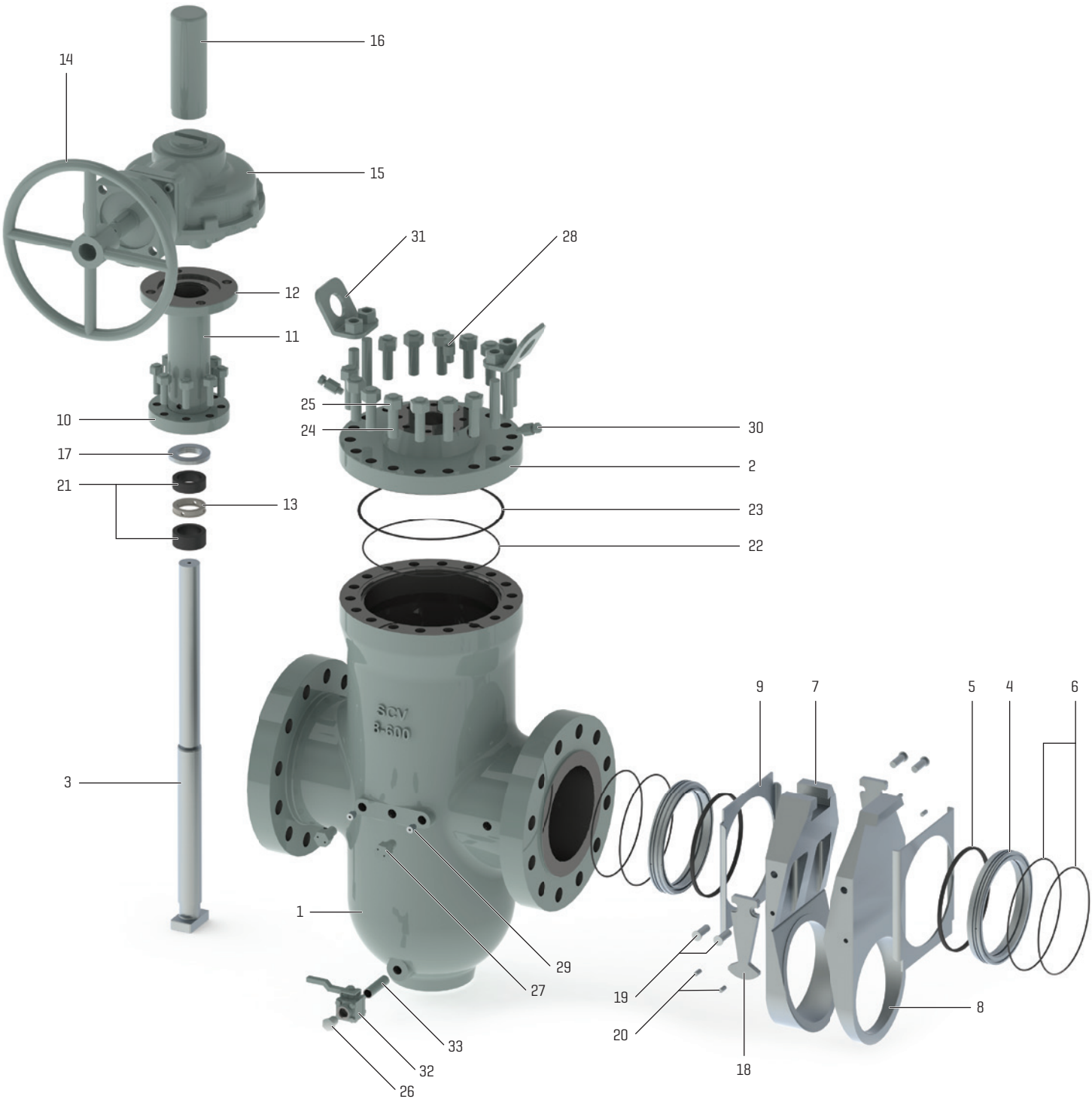
[Bill of Materials]

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]



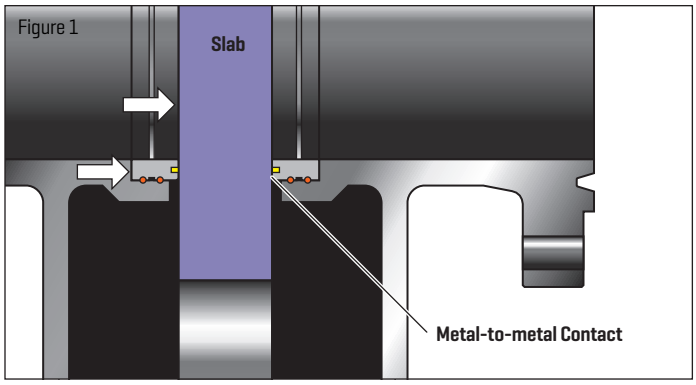
Thru Conduit Expanding Gate Valve (Bi-Directional) with Preferred Pressure Side

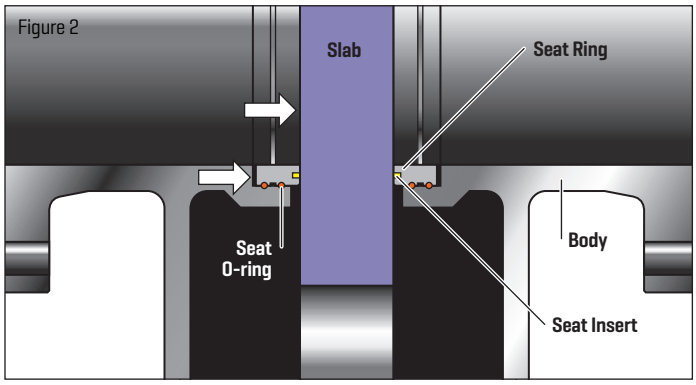
[Bill of Materials]

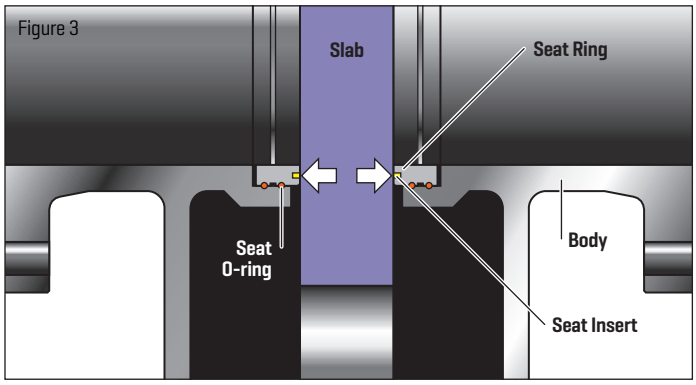
No.	Part	Material		
		Figure Number: 0813-VN	Figure Number: 0813-VR	Figure Number: 0215-HD
1	Body	ASTM A216 WCC		ASTM A352 LCC
2	Bonnet	ASTM A105		ASTM A350 LF2
3	Stem	ASTM A564 TType 630, 17-4		
4	Seat	ASTM A105 + ENP		ASTM A350 LF2 + ENP
5	Seat Insert	Nylon	RTFE	Devlon
6	Seat O-Rings	Viton AED		HNBR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

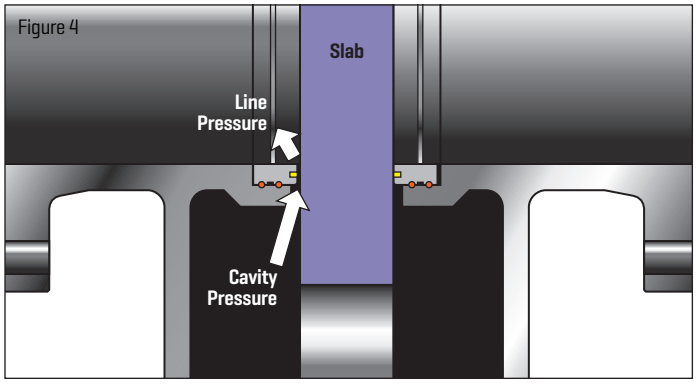
Slab Gate Advanced Mechanical Details

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)**

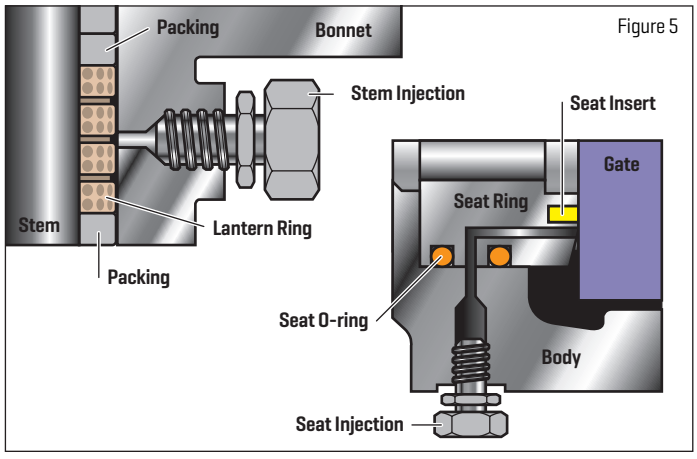
When line pressure is applied, the pressure forces the slab gate to float against the downstream seat and form a tight seal. At the same time, the upstream line pressure forces the upstream seat on the slab gate to form an upstream seal. **(Figure 3)**

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

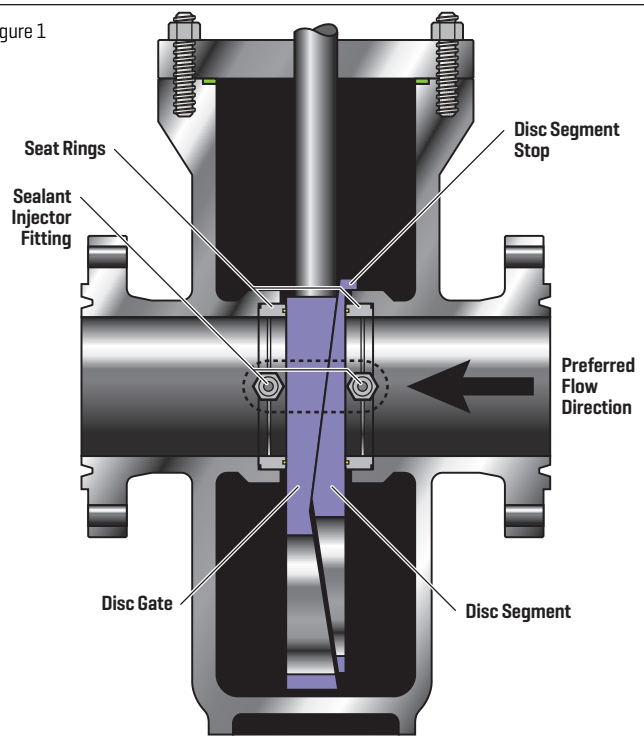
All valves will have secondary sealant injection fittings for the stem and seats. If the seat inserts or O-rings become damaged, leakage from the seat can be prevented by injecting sealant into the fittings. **(Figure 5)**



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

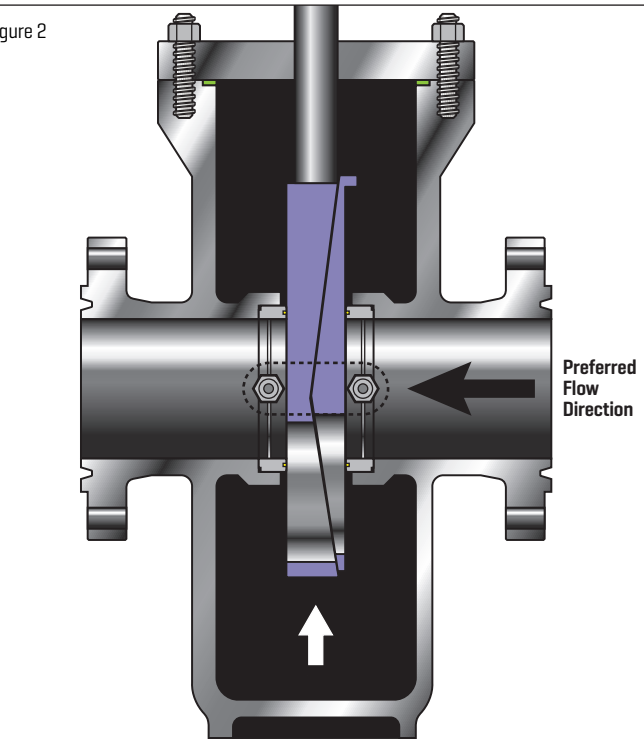
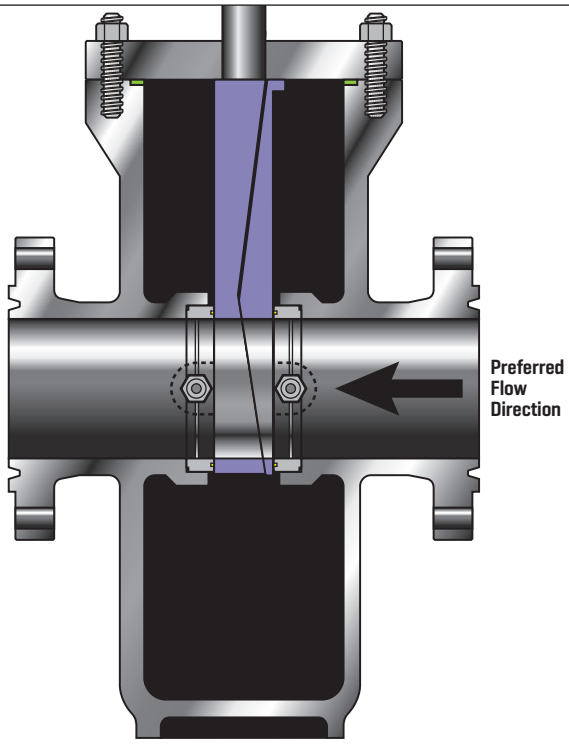
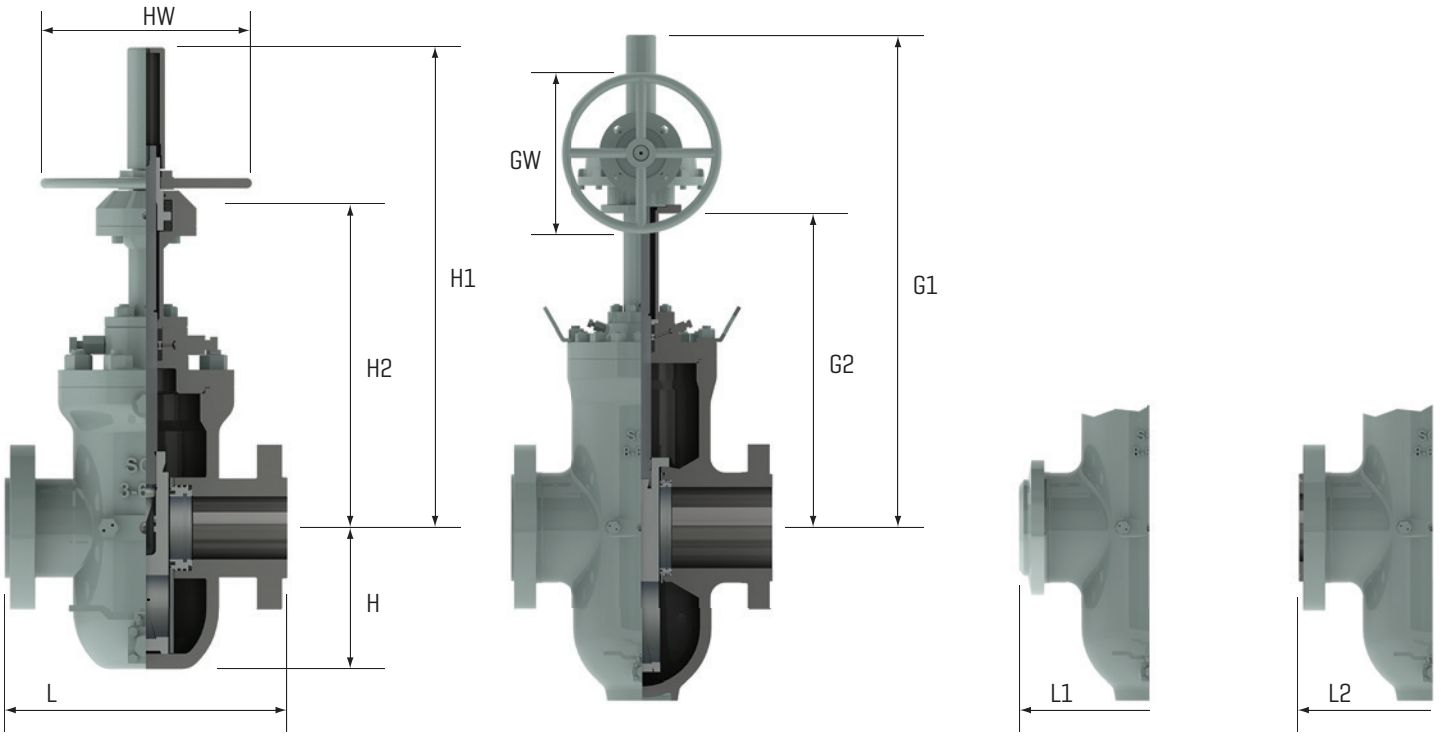


Figure 3



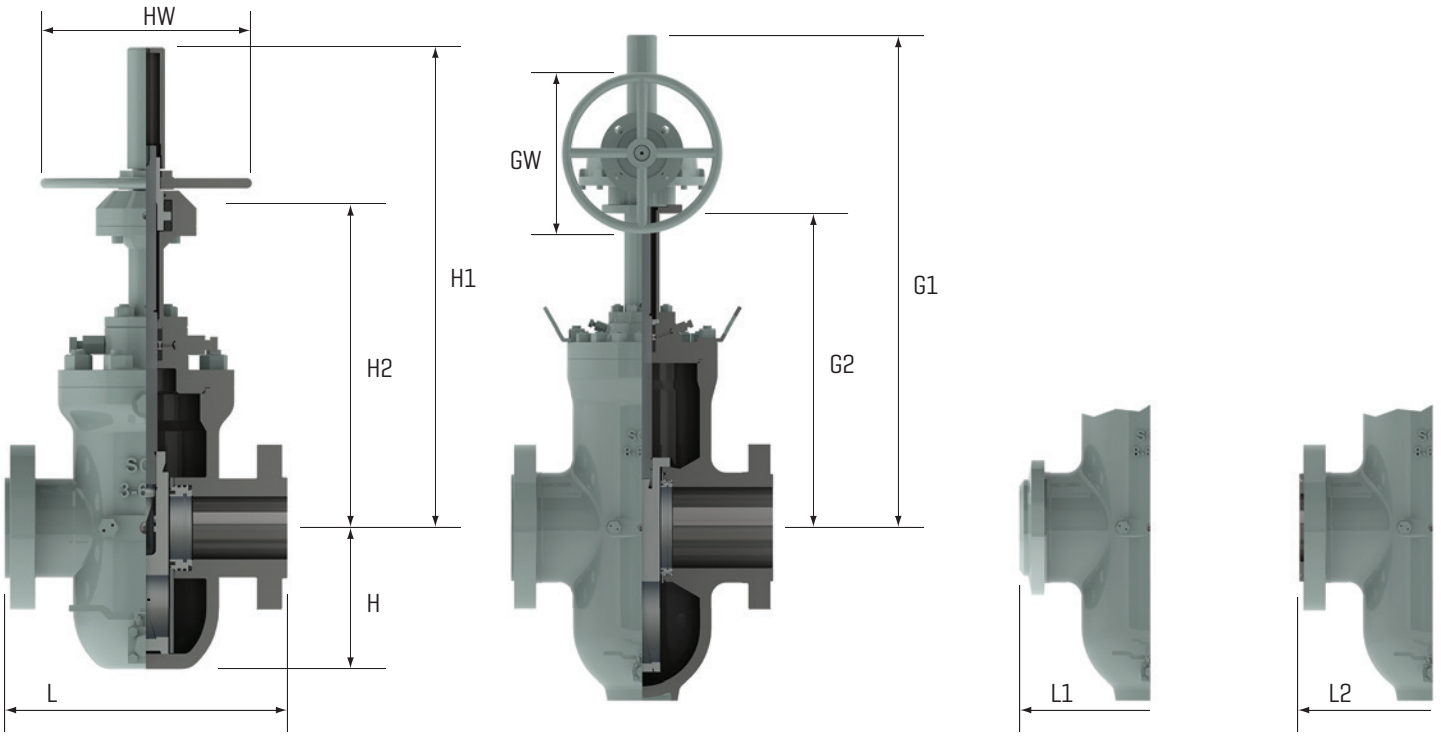
Slab & Expanding Gate Valve Dimensions
Size: 2” - 36”
Class: 150



CLASS 150	SIZE		END-TO-END		CENTER-TO-BOTTOM	HANDWHEEL OPERATED			GEAR OPERATED			ADAPTER	WEIGHTS LBS/KG
			RF - L	BW - L1	H	H1	H2	HW	G1	G2	GW		
	IN	2	7	/	5.50	19.04	11.72	10	/	/	/	/	84
	MM	50	178	/	140	484	298	254	/	/	/		38
	IN	3	8	/	7.25	23.28	14.45	10.00	/	/	/	/	113
	MM	80	203	/	184	591	367	254	/	/	/		51
	IN	4	9	/	8.50	25.4	16.90	10.00	25.4	16.90	10.00	FA10 MTG	125
	MM	100	229	/	216	645	429	254	645	429	254		57
	IN	6	10.5	/	11.50	32.3	21.70	18.00	32.3	21.70	12.00	FA10 MTG	226
	MM	150	267	/	292	820	551	457	820	551	305		102
	IN	8	11.5	/	15.25	41.48	27.88	18.00	41.48	27.88	12.00	FA14 MTG	426
	MM	200	292	/	387	1054	708	457	1054	708	305		193
	IN	10	13	/	18.13	49.84	33.54	24.00	49.84	33.54	12.00	FA14 MTG	707
	MM	250	330	/	461	1266	852	610	1266	852	305		321
	IN	12	14	/	22.00	57.6	39.11	24.00	57.6	39.11	18.00	FA14 MTG	850
	MM	300	356	/	559	1463	993	610	1463	993	457		386
	IN	14	15	/	25.25	/	/	/	60.81	41.42	18.00	FA14 MTG	1115
	MM	350	381	/	641	/	/	/	1545	1052	457		506
	IN	16	16	/	26.70	/	/	/	70.39	47.89	18.00	FA14 MTG	1816
	MM	400	406	/	678	/	/	/	1788	1216	457		869
	IN	18	17	/	31.375	/	/	/	76.21	51.31	18.00	FA16 MTG	1910
	MM	450	432	/	797	/	/	/	1936	1303	457		866
	IN	20	18	/	33.68	/	/	/	84.49	57.99	18.00	FA16 MTG	3244
	MM	500	457	/	855	/	/	/	2146	1473	457		1471
	IN	24	20	/	40.00	/	/	/	100.3	69.30	24.00	FA16 MTG	4867
	MM	600	508	/	1016	/	/	/	2548	1760	610		1935
	IN	30	26	/	50.38	/	/	/	121.13	83.93	24.00	FA16 MTG	9175
	MM	750	660	/	1280	/	/	/	3077	2132	610		4162
	IN	36	32	/	58.18	/	/	/	140.99	97.23	24.00	FA19 MTG	11727
	MM	900	813	/	1478	/	/	/	3581	2470	610		5319

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.

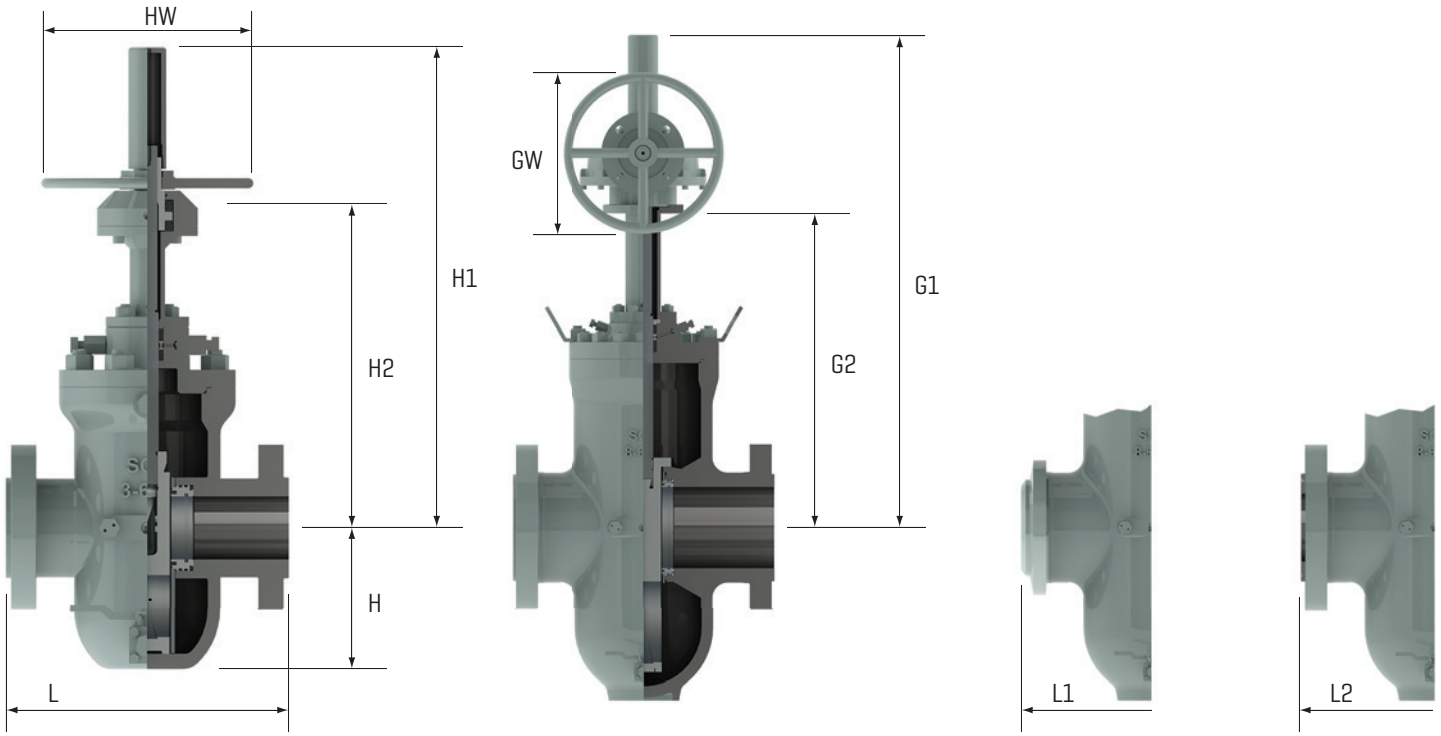
Slab & Expanding Gate Valve Dimensions
Size: 2”- 30”
Class: 300



CLASS 300	SIZE		END-TO-END		CENTER-TO-BOTTOM	HANDWHEEL OPERATED			GEAR OPERATED			ADAPTER	WEIGHTS LBS/KG
			RF - L	BW - L1	H	H1	H2	HW	G1	G2	GW		
	IN	2	8.50	/	5.70	19.04	11.72	10.00	/	/	/	/	90
	MM	50	216	/	145	484	298	254	/	/	/		41
	IN	3	11.12	/	7.04	23.71	14.94	10.00	/	/	/	/	160
	MM	80	282	/	179	602	379	254	/	/	/		73
	IN	4	12.00	/	8.63	26.21	16.63	10.00	/	/	/	/	180
	MM	100	304.8	/	219	666	422	254	/	/	/		82
	IN	6	15.88	/	11.73	32.13	21.63	18.00	32.13	21.63	12.00	FA10 MTG	297
	MM	150	403	/	298	816	549	457	816	549	305		135
	IN	8	16.50	/	15.13	40.52	27.69	18.00	40.52	27.69	18.00	FA14 MTG	532
	MM	200	419	/	384	1029	703	457	1029	703	457		241
	IN	10	18.00	/	18.25	49.04	33.14	24.00	33.14	49.04	18.00	FA14 MTG	725
	MM	250	457	/	464	1246	842	610	1246	842	457		329
	IN	12	19.75	/	21.88	56.73	38.63	24.00	56.73	38.63	18.00	FA14 MTG	1280
	MM	300	502	/	556	1441	981	610	1441	981	457		581
	IN	14	30.00	/	23.79	/	/	/	60.82	41.42	18.00	FA14 MTG	1731
	MM	350	762	/	604	/	/	/	1545	1052	457		785
	IN	16	33.00	/	27.50	/	/	/	67.92	46.72	24.00	FA14 MTG	2262
	MM	400	838	/	699	/	/	/	1725	1187	610		1026
	IN	18	36.00	/	30.50	/	/	/	76.49	51.79	24.00	FA16 MTG	3184
	MM	450	914	/	775	/	/	/	1943	1315	610		1444
	IN	20	39.00	/	34.40	/	/	/	83.26	57.21	24.00	FA16 MTG	3825
	MM	500	991	/	874	/	/	/	2114	1453	610		1735
	IN	24	45.00	/	40.75	/	/	/	99.58	69.24	24.00	FA16 MTG	6090
	MM	600	1143	/	1035	/	/	/	2529	1759	610		2762
	IN	30	55.00	/	50.00	/	/	/	122.44	85.44	24.00	FA19 MTG	10180
	MM	750	1397	/	1270	/	/	/	3110	2170	610		4618

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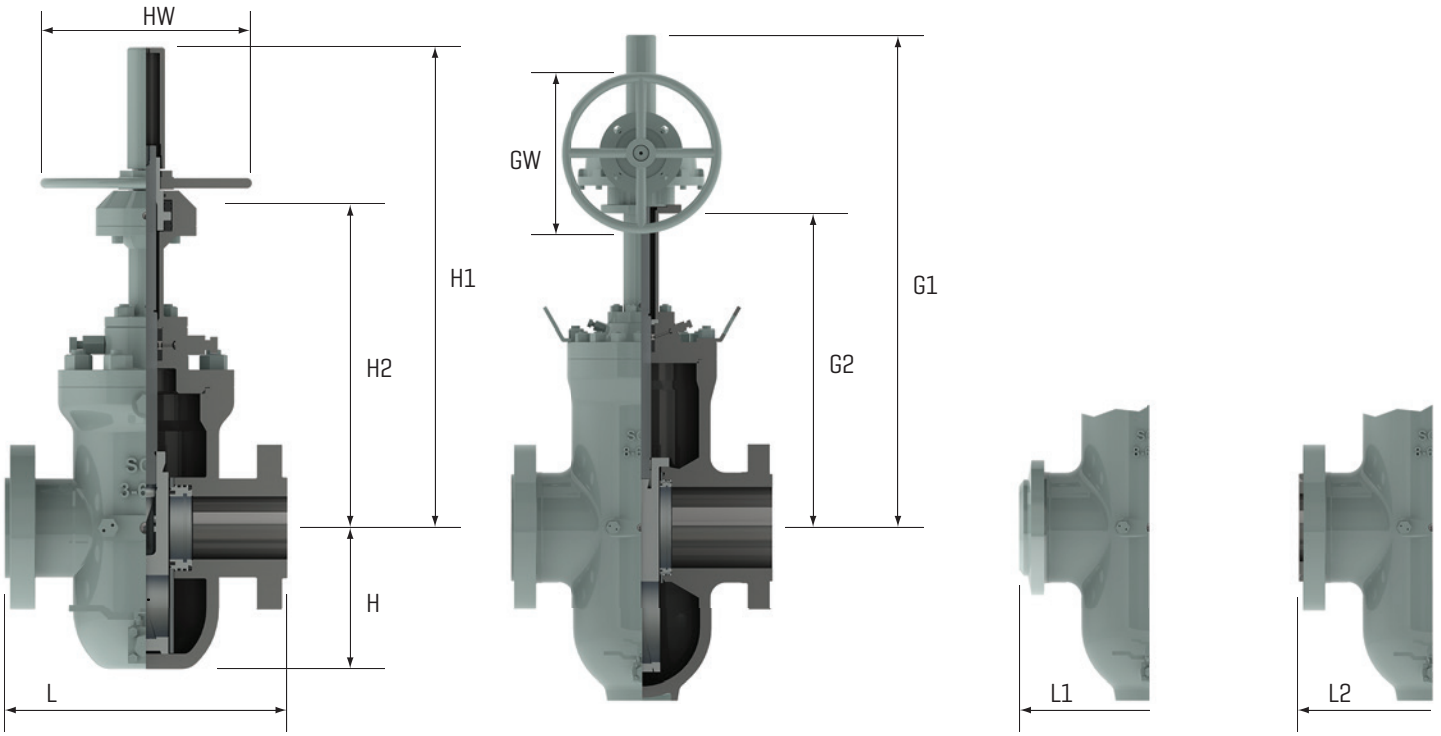
Slab & Expanding Gate Valve Dimensions
Size: 2” - 36”
Class: 600



CLASS 600	SIZE		END-TO-END			CNTR-TO-BTM	HANDWHEEL OPERATED			GEAR OPERATED				WEIGHTS LBS/KG
			RF - L	BW - L1	RTJ - L2	H	H1	H2	HW	G1	G2	GW	ADAPTER	
	IN	2	11.50	11.50	11.875	5.41	19.39	12.07	12.00	/	/	/	/	124
	MM	50	292	292	302	137	493	307	305	/	/	/		56
	IN	3	14.00	14.00	14.12	7.03	23.76	14.94	12.00	/	/	/	/	190
	MM	80	356	356	359	178	604	379	305	/	/	/		86
	IN	4	17.00	17.00	17.12	10.13	28.33	20.03	12.00	/	/	/	/	335
	MM	100	432	432	435	257	720	509	305	/	/	/		152
	IN	6	22.00	22.00	22.12	12.75	36.52	25.16	18.00	/	/	18.00	FA14 MTG	600
	MM	150	559	559	562	323	928	639	457	/	/	457		272
	IN	8	26.00	26.00	26.12	17.13	46.44	31.94	24.00	/	/	24.00	FA16 MTG	1050
	MM	200	660	660	664	435	1180	811	610	/	/	610		476
	IN	10	31.00	31.00	31.12	21.25	75.14	37.74	24.00	/	/	24.00	FA16 MTG	1920
	MM	250	787	787	791	540	1909	959	610	/	/	610		871
	IN	12	33.00	33.00	33.12	23.50	/	/	/	62.82	43.12	24.00	FA25 MTG	2410
	MM	300	838	838	841	597	/	/	/	1596	1095	610		1093
	IN	14	35.00	35.00	35.12	26.75	/	/	/	68.02	46.02	30.00	FA25 MTG	3408
	MM	350	889	889	892	679	/	/	/	1728	1169	762		1546
	IN	16	39.00	39.00	39.12	29.50	/	/	/	74.95	51.75	30.00	FA25 MTG	4350
	MM	400	991	991	994	749	/	/	/	1904	1314	762		1973
	IN	18	43.00	43.00	43.12	33.12	/	/	/	80.13	56.93	30.00	FA25 MTG	5988
	MM	450	1092	1092	1095	841	/	/	/	2035	1446	762		2716
	IN	20	47.00	47.00	47.25	36.76	/	/	/	94.20	63.70	36.00	FA30 MTG	8458
	MM	500	1194	1194	1200	934	/	/	/	2393	1618	914		3836
	IN	22	51.00	51.00	51.38	40.75	/	/	/	103.83	70.53	36.00	FA35 MTG	10810
	MM	550	1295	1295	1305	1035	/	/	/	2637	1791	914		4903
	IN	24	55.00	55.00	55.38	44.50	/	/	/	111.20	76.30	36.00	FA35 MTG	13250
	MM	600	1397	1397	1407	1130	/	/	/	2824	1938	914		6010
	IN	26	57.00	57.00	57.5	48.63	/	/	/	117.94	81.34	36	FA35 MTG	16194
	MM	650	1448	1448	1461	1235	/	/	/	2996	2066	914		7345
	IN	30	65.00	65.00	65.5	54.00	/	/	/	131.66	91.66	36.00	FA35 MTG	21475
	MM	750	1651	1651	1664	1372	/	/	/	3344	2328	914		9741
	IN	36	82.00	82.00	85.62	63.50	/	/	/	180.76	105.88	36.00	FA35 MTG	34350
	MM	900	2083	2083	2175	1613	/	/	/	4591	2689	914		15581

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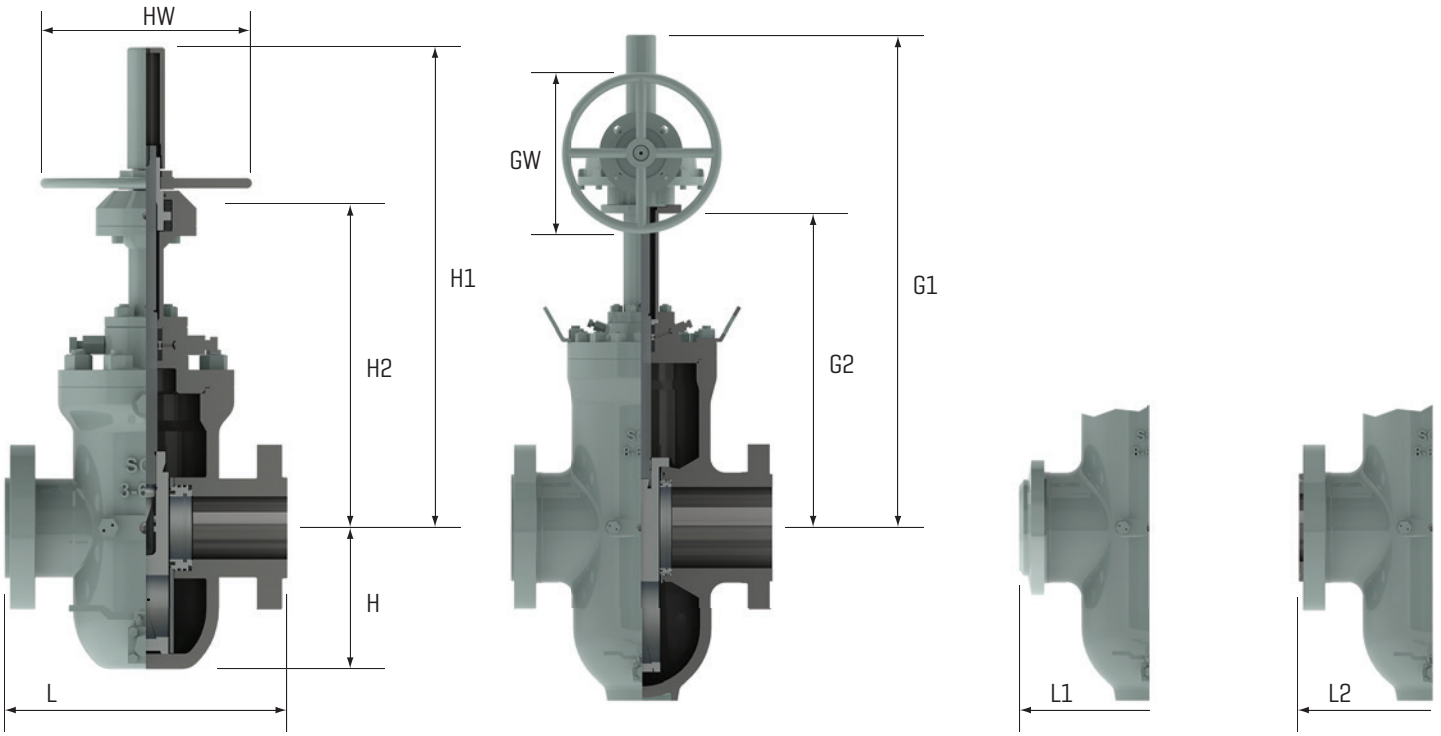
Slab & Expanding Gate Valve Dimensions
Size: 2” - 24”
Class: 900



CLASS 900	SIZE		END-TO-END			CNTR-TO-BTM	HANDWHEEL OPERATED			GEAR OPERATED				WEIGHTS LBS/KG
			RF - L	BW - L1	RTJ - L2	H	H1	H2	HW	G1	G2	GW	ADAPTER	
	IN	2	14.5	14.5	14.875	5.063	17.75	18.44	12.00	/	/	/	/	185
	MM	50	368	368	378	129	451	468	305	/	/	/		84
	IN	3	15	15	15.12	7.04	23.76	14.94	18.00	/	/	/	/	220
	MM	80	381	381	384	179	604	379	457	/	/	/		100
	IN	4	18	18	18.12	10.02	29.42	20.03	18.00	/	/	/	FA14 MTG	400
	MM	100	457	457	460	255	747	509	457	/	/	/		181
	IN	6	24	24	24.12	13.13	36.56	25.16	18.00	/	/	/	FA14 MTG	790
	MM	150	610	610	613	334	929	639	457	/	/	/		358
	IN	8	29	29	29.12	17.50	46.29	31.94	24.00	/	/	/	FA16 MTG	1350
	MM	200	737	737	740	445	1176	811	610	/	/	/		612
	IN	10	33	33	33.12	21.75	/	/	/	55.14	37.74	24.00	FA16 MTG	2375
	MM	250	838	838	841	552	/	/	/	1401	959	610		1077
	IN	12	38	38	38.12	24.38	/	/	/	62.83	43.13	24.00	FA25 MTG	3394
	MM	300	965	965	968	619	/	/	/	1596	1096	610		1539
	IN	14	40.5	40.5	40.88	27.88	/	/	/	67.44	45.94	30.00	FA25 MTG	4170
	MM	350	1029	1029	1038	708	/	/	/	1713	1167	762		1891
	IN	16	44.5	44.5	44.88	30.00	/	/	/	74.95	51.75	30.00	FA25 MTG	5530
	MM	400	1130	1130	1140	762	/	/	/	1904	1314	762		2508
	IN	18	48	48	48.5	33.62	/	/	/	84.73	56.93	30.00	FA25 MTG	7294
	MM	450	1219	1219	1232	854	/	/	/	2152	1446	762		3309
	IN	20	52	52	52.5	37.90	/	/	/	97.11	70.56	36.00	FA30 MTG	11518
	MM	500	1321	1321	1334	963	/	/	/	2467	1792	914		5224
	IN	24	61	61	61.75	45.50	/	/	/	111.70	76.80	36.00	FA35 MTG	17673
	MM	600	1549	1549	1568	1156	/	/	/	2837	1951	914		8016

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Slab & Expanding Gate Valve Dimensions
Size: 2” - 12”
Class: 1500

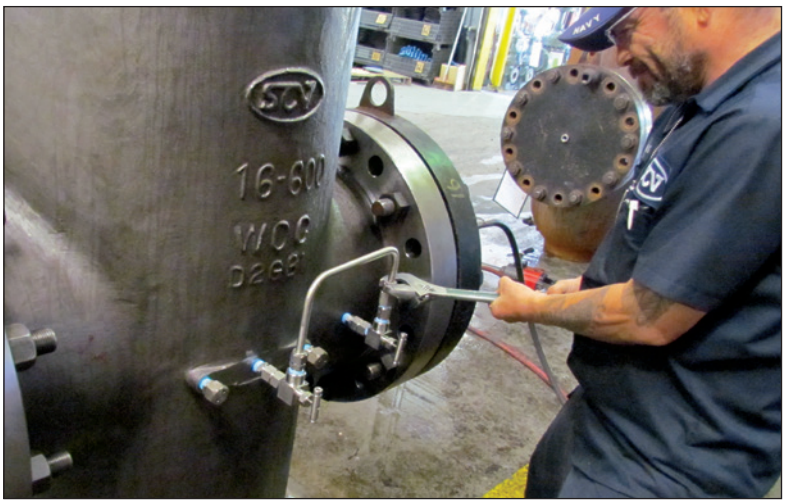


CLASS 1500	SIZE		END-TO-END			CNTR-TO-BTM	HANDWHEEL OPERATED			GEAR OPERATED				WEIGHTS LBS/KG
			RF - L	BW - L1	RTJ - L2	H	H1	H2	HW	G1	G2	GW	ADAPTER	
	IN	2	14.5	14.5	14.875	5.062	17.75	18.44	12.00	/	/	/	/	108
	MM	50	368	368	378	129	451	468	305	/	/	/		49
	IN	3	18.5	18.5	18.875	7.313	23.875	19.56	12.00	/	/	/	/	248
	MM	80	356	356	479	186	606	470	305	/	/	/		112
	IN	4	21.5	21.5	21.875	9.062	28.50	24.75	18.00	/	/	/	/	332
	MM	100	546	546	556	230	724	629	457	/	/	/		151
	IN	6	27.75	27.75	28	12.88	/	/	/	31.50	29.13	24.00	/	998
	MM	150	705	705	711	327	/	/	/	800	740	610		453
	IN	8	32.75	32.75	33.125	18.25	/	/	/	44.38	41.06	24.00	/	2435
	MM	200	832	832	842	464	/	/	/	1127	1043	610		1104
	IN	10	39.00	39.00	39.625	21.75	/	/	/	53.22	46.16	24.00	/	4002
	MM	250	991	991	1000	552	/	/	/	1352	1172	610		1815
	IN	12	44.50	44.50	45.00	24.56	/	/	/	57.72	53.41	30.00	/	5875
	MM	300	1130	1130	1146	624	/	/	/	1466	1357	762		2667

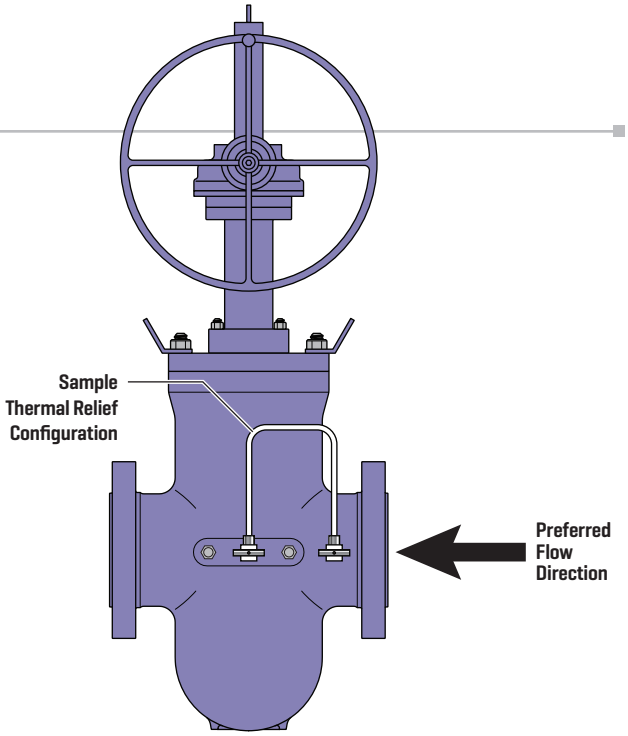
Note: SCV reserves the right to change any technical design and dimensional data without prior notice. Please contact SCV to confirm all Dimensions and Data offered in this catalog. Adapter information available upon request.

Expanding Gate Thermal Relief System

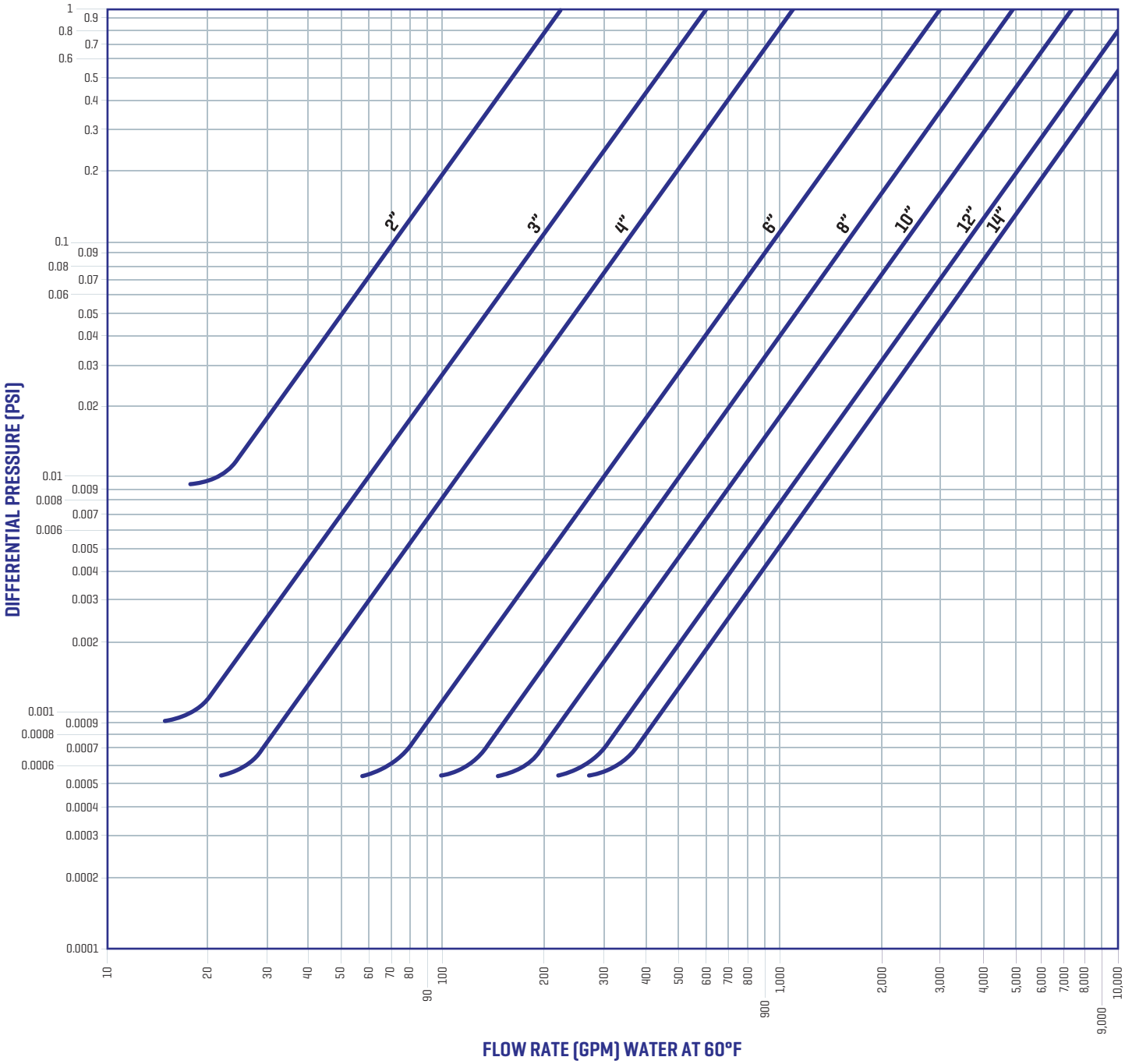
With the expanding gate design, it is possible for Thermal Expansion to occur within the body cavity while the valve is in the closed position. A Thermal Relief system allows the body cavity to relieve into the upstream side of the valve.



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.

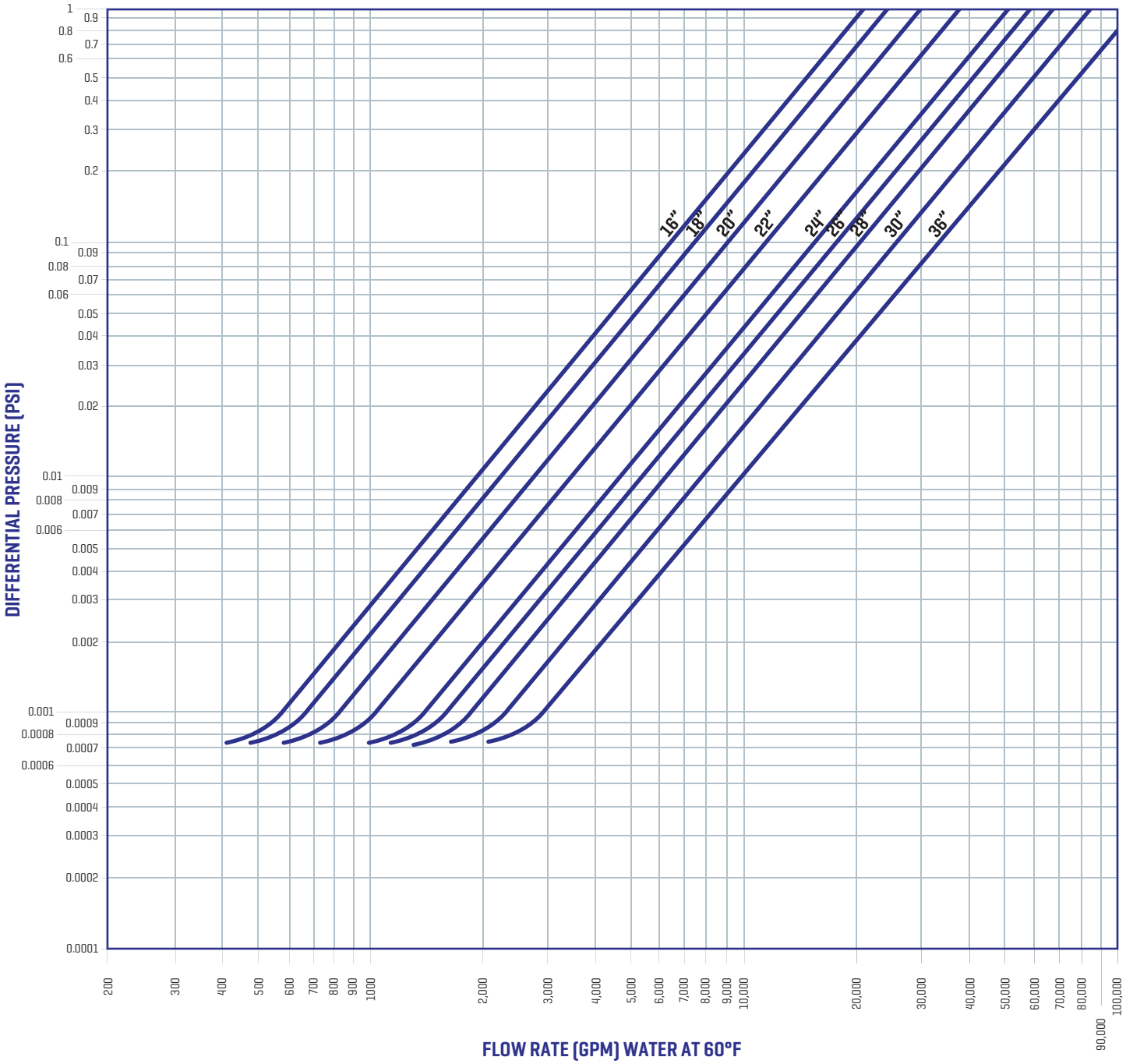
Flow Coefficient for Fully Open Valves	
2	228
3	601
4	1,108
6	3,000
8	5,000
10	7,560
12	11,547
14	13,416

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

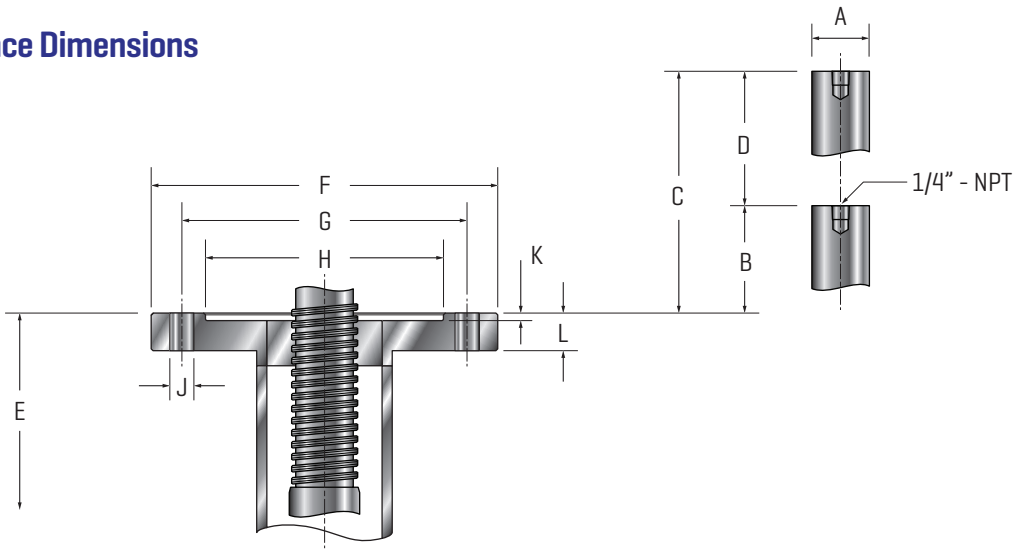
Glossary of Terms	
Q	Flow Rate, Liquids - GPM
Cv	Flow Coefficient
P_1	Inlet Pressure
P_2	Outlet Pressure
▪P	Pressure Drop (P_1 - P_2)
G	Specific Gravity (Water = 1)

Liquid (Incompressible Flow)

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

Expanding Gate Valve Operator Interface

Operator Interface Dimensions



Valve Size	ANSI Class	Stem Thread	Top of Stem Closed	Top of Stem Open	Total Travel	To Center of Valve	Mtg Plt O.D.	Bolt Circle	Flange Pilot Dia.	Mounting Holes	Flange Pilot Depth	Mtg Plt Thickness	ISO/MSS Mtg Pattern
		A	B	C	D	E	F	G	H	J	K	L	
4	600	1-1/4-5TPI-2G-LH	4.70	9.58	4.88	20.03	7.00	5.50	3.98	4 X 0.75	0.18	1.00	FA14
4	900	1-1/4-5TPI-2G-LH	4.60	9.48	4.88	20.15	7.00	5.50	3.98	4 X 0.75	0.18	1.00	FA14
6	150	1-5TPI-2G-LH	4.00	10.90	6.90	21.70	5.00	4.02	2.78	4 X 0.50	0.15	0.43	FA10
6	600	1-1/2-4TPI-2G-LH	4.50	11.35	6.85	25.42	7.00	5.50	3.98	4 X 0.75	0.18	1.00	FA14
6	900	1-1/2-4TPI-2G-LH	4.50	11.35	6.85	25.42	7.00	5.50	3.98	4 X 0.75	0.18	1.00	FA14
8	150	1-1/2-4TPI-2G-LH	4.40	13.65	9.25	27.88	6.75	5.50	3.98	4 X 0.69	0.18	0.70	FA14
8	600	1-3/4-4TPI-2G-LH	5.20	14.58	9.38	32.27	8.00	6.50	5.15	4 X 0.81	0.23	1.15	FA16
8	900	1-3/4-4TPI-2G-LH	4.90	14.28	9.38	32.57	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	16.40	11.30	33.54	6.75	5.50	3.98	4 X 0.69	0.18	0.70	FA14
10	600	2-4TPI-2G-LH	5.70	17.40	11.70	37.74	8.50	6.50	5.15	4 X 0.88	0.25	1.13	FA16
10	900	2-4TPI-2G-LH	5.70	17.40	11.70	37.74	8.50	6.50	5.15	4 X 0.88	0.25	1.13	FA16
12	150	1-1/2-4TPI-2G-LH	5.40	18.60	13.20	39.11	6.75	5.50	3.98	4 X 0.69	0.18	0.70	FA14
12	600	2-1/4-3TPI-2G-LH	6.10	19.70	13.60	43.13	11.50	10.00	7.90	8 X 0.75	0.25	1.25	FA25
12	900	2-1/4-3TPI-2G-LH	6.10	19.70	13.60	43.13	11.50	10.00	7.90	8 X 0.75	0.25	1.25	FA25
14	600	2-1/2-3TPI-2G-LH	6.70	21.85	15.15	46.02	11.50	10.00	7.90	8 X 0.75	0.25	1.25	FA25
14	900	2-1/2-3TPI-2G-LH	6.70	21.50	15.20	45.94	11.50	10.00	7.90	8 X 0.75	0.25	1.25	FA25
16	150	*1.5-0.2P-0.40L-ACME-2G-LH	6.00	22.64	16.64	47.89	6.75	5.50	3.98	4 X 0.69	0.18	0.70	FA14
16	600	2-1/2-3TPI-2G-LH	6.50	23.15	16.65	51.75	12.00	10.00	7.90	8 X 0.75	0.25	1.25	FA25
16	900	2-1/2-3TPI-2G-LH	6.50	23.15	16.65	51.75	12.00	10.00	7.90	8 X 0.75	0.25	1.25	FA25
18	600	3-2TPI-2G-LH	9.20	28.23	19.03	56.93	12.00	10.00	7.90	8 X 0.75	0.25	1.25	FA25
18	900	3-2TPI-2G-LH	9.20	28.23	19.03	56.93	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	6.00	26.50	20.50	57.99	8.25	6.50	5.15	4 X 0.81	0.23	1.15	FA16
20	600	3-1/4-2.5TPI-2G-LH	9.50	30.50	21.00	63.70	14.00	11.75	9.10	8 X 0.88	0.25	1.39	FA30
20	900	3-1/4-2.5TPI-2G-LH	8.90	29.90	21.00	64.20	14.00	11.75	9.10	8 X 0.88	0.25	1.39	FA30
22	600	3-1/4-2.5TPI-2G-LH	9.50	32.80	23.30	70.54	16.00	14.00	10.28	8 X 1.13	0.25	1.25	FA35
24	150	*2.0-0.25P-0.50L-ACME-2G-LH	6.50	31.30	24.80	69.30	8.25	6.50	5.15	4 X 0.81	0.23	0.75	FA16
24	600	4-2TPI-2G-LH	9.60	34.90	25.30	76.30	16.00	14.00	10.28	8 X 1.13	0.25	1.25	FA35
24	900	4-2TPI-2G-LH	9.10	34.40	25.30	76.80	16.00	14.00	10.28	8 X 1.13	0.25	1.25	FA35
26	600	4-2TPI-2G-LH	9.70	36.60	26.90	81.35	16.00	14.00	10.28	8 X 1.13	0.25	1.25	FA35
30	150	*2.5-0.25P-0.50L-ACME-2G-LH	6.90	37.65	30.75	83.93	8.25	6.50	5.15	4 X 0.81	0.23	0.75	FA16
30	600	4-2TPI-2G-LH	8.90	39.70	30.80	91.66	16.00	14.00	10.28	8 X 1.13	0.25	1.25	FA35
36	150	*2.5-0.25P-0.50L-ACME-2G-LH	6.70	42.70	36.00	97.89	9.00	7.50	5.64	8 X 0.69	0.23	0.75	FA19
36	600	4-2TPI-2G-LH	11.40	47.50	36.10	105.88	16.00	14.00	10.28	8 X 1.13	0.25	1.25	FA35
		*Double Lead Thread											

Slab Gate Valve Operator Interface

Valve Size	ANSI Class	Stem Thread	Top of Stem Closed	Top of Stem Open	Total Travel	To Center of Valve	Mtg Plt O.D.	Bolt Circle	Flange Pilot Dia.	Mounting Holes	Flange Pilot Depth	Mtg Plt Thickness	ISO/MSS Mtg Pattern
		A	B	C	D	E	F	G	H	J	K	L	
4	600	1-1/4-5TPI-2G-LH	4.92	9.82	4.90	20.03	7.00	5.50	3.98	4 X 0.75	0.18	1.00	FA14
4	900	1-1/4-5TPI-2G-LH	4.92	9.70	4.78	20.15	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	2.78	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	2.78	4 X 0.50	0.15	0.43	FA10
6	600	1-1/2-4TPI-2G-LH	5.00	11.85	6.85	25.42	7.00	5.50	3.98	4 X 0.75	0.18	1.00	FA14
6	900	1-1/2-4TPI-2G-LH	5.00	11.58	6.85	25.42	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	5.80	15.18	9.38	32.27	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	32.57	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	3.96	4 X 0.69	0.19	0.70	FA14
10	600	2-4TPI-2G-LH	6.50	18.00	11.50	37.74	8.50	6.50	5.15	4 X 0.88	0.25	1.13	FA16
10	900	2-4TPI-2G-LH	6.50	18.00	11.50	33.74	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	6.90	20.15	13.25	43.13	11.50	10.00	7.90	8 X 0.75	0.25	1.25	FA25
12	900	2-1/4-3TPI-2G-LH	6.90	20.15	13.25	43.13	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	600	2-1/2-3TPI-2G-LH	7.30	22.30	15.00	45.94	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	45.94	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-ACME2G-LH	6.10	21.28	16.18	46.79	6.75	5.50	3.98	4 X 0.69	0.19	0.70	FA14
16	600	2-1/2-3TPI-2G-LH	7.30	23.80	16.50	51.75	12.00	10.00	7.90	8 X 0.75	0.25	1.25	FA25
16	900	2-1/2-3TPI-2G-LH	7.30	23.80	16.50	51.75	12.00	10.00	7.90	8 X 0.75	0.25	1.25	FA25
18	600	3-2TPI-2G-LH	10.20	28.86	18.66	56.56	12.00	10.00	7.90	8 X 0.75	0.25	1.25	FA25
18	900	3-2TPI-2G-LH	10.20	28.86	18.66	56.56	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	6.00	26.25	20.25	57.09	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	26.05	20.25	57.21	8.25	6.50	5.15	4 X 0.81	0.25	0.75	FA16
20	600	3-1/4-2.5TPI-2G-LH	9.40	30.50	21.10	63.70	14.00	11.75	9.10	8 X 0.88	0.25	1.39	FA30
20	900	3-1/4-2.5TPI-2G-LH	9.50	30.00	20.50	64.20	14.00	11.75	9.10	8 X 0.88	0.25	1.39	FA30
22	600	3-1/4-2.5TPI-2G-LH	10.00	33.30	23.30	70.54	16.00	14.02	10.28	8 X 1.13	0.25	1.25	FA35
24	150	*2.0-0.25P-0.50L-ACME-2G-LH	6.50	31.00	24.50	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	30.35	24.45	69.24	8.25	6.50	5.15	4 X 0.81	0.23	0.75	FA16
24	600	4-2TPI-2G-LH	10.10	35.43	25.33	76.30	16.00	14.00	10.28	8 X 1.13	0.25	1.25	FA35
24	900	4-2TPI-2G-LH	9.10	34.40	25.30	76.80	16.00	14.00	10.28	8 X 1.13	0.25	1.25	FA35
26	600	4-2TPI-2G-LH	11.00	37.86	26.86	81.35	16.00	14.00	10.28	8 X 1.13	0.25	1.25	FA35
30	150	*2.5-0.25P-0.50L-ACME-2G-LH	6.70	37.00	30.30	83.98	8.25	6.50	5.15	4 X 0.81	0.23	0.75	FA16
30	300	*2.5-0.25P-0.50L-ACME-2G-LH	6.70	37.00	30.30	85.44	9.00	7.50	5.64	8 X 0.69	0.23	0.75	FA19
30	600	4-2TPI-2G-LH	9.50	40.50	31.00	91.66	16.00	14.00	10.28	8 X 1.13	0.25	1.25	FA35
36	150	*2.5-0.25P-0.50L-ACME-2G-LH	6.40	42.15	35.75	97.23	9.00	7.50	5.64	8 X 0.69	0.23	0.75	FA19
36	600	4-2TPI-2G-LH	11.70	48.20	36.50	105.88	16.00	14.00	10.28	8 X 1.13	0.25	1.25	FA35
		*Double Lead Thread											

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

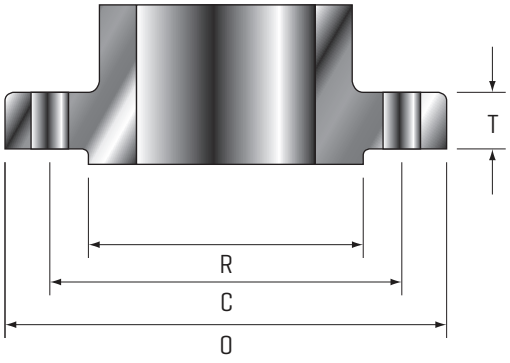
	Temp. F	A105	WCB	LF2	WCC	LCB	WC6	LCC	C5	C12	C12A	316	CF8M	F51	F53
600	-20 to 100	1480	1480	1480	1500	1395	1500	1500	1500	1500	1500	1440	1440	1500	1500
	200	1360	1360	1360	1500	1320	1500	1500	1500	1500	1500	1240	1240	1490	1490
	300	1310	1310	1310	1455	1275	1445	1455	1455	1455	1455	1120	1120	1335	1335
	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	/	/
	Temp. F	**A105**	**WCB**	**LF2**	**WCC**	**LCB**	**WC6**	**LCC**	**C5**	**C12**	**C12A**	**316**	**CF8M**	**F51**	**F53**
900	-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	/	/

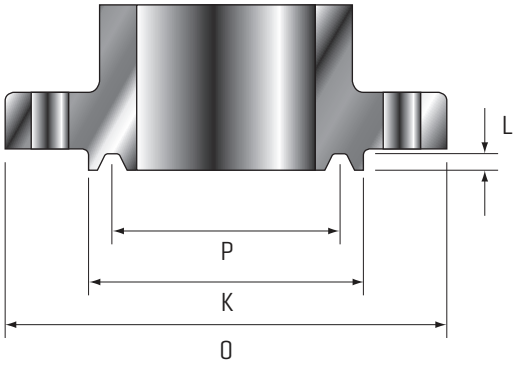
Pressure Temperature Ratings - ASME B16.34

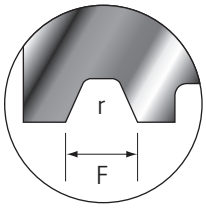
Note: Pressures in PSI

	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



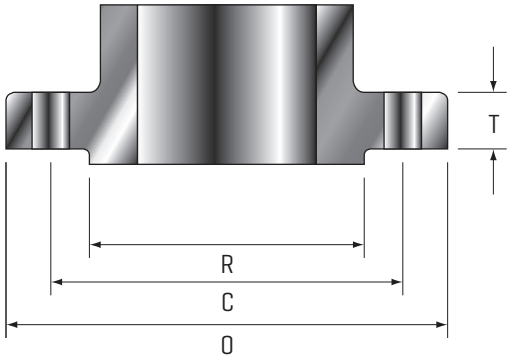


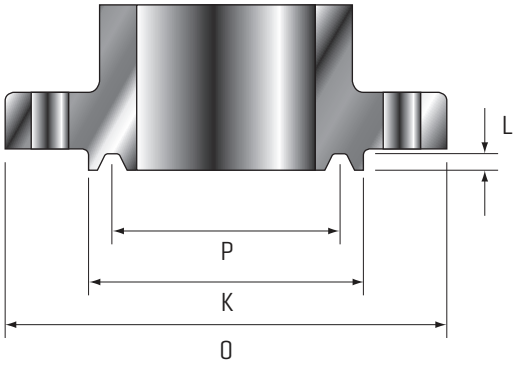


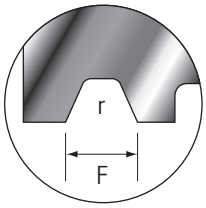
Groove Detail

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

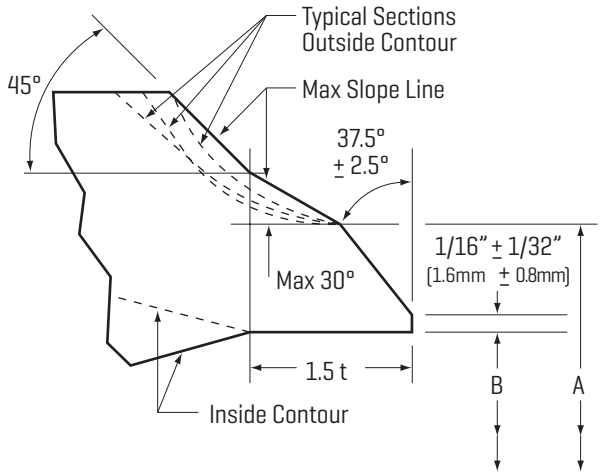
Butt-welding Dimensions - ANSI B16.25

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

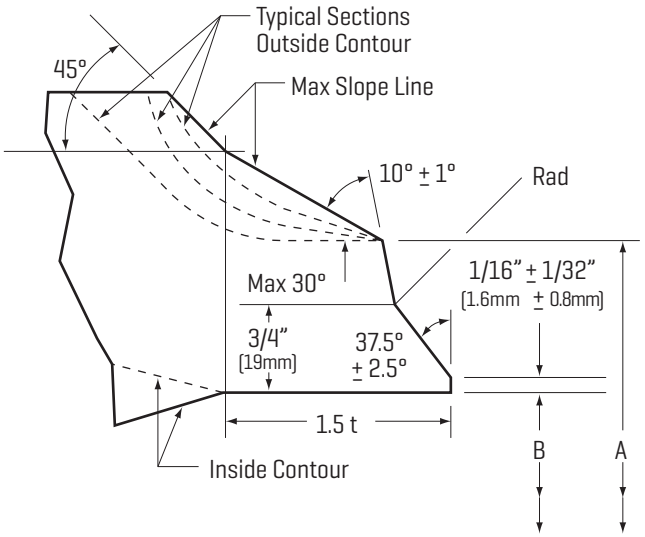
Plain Bevel Butt-welding End for Pipe Wall Thickness is 7/8" (22.23mm) or less.

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



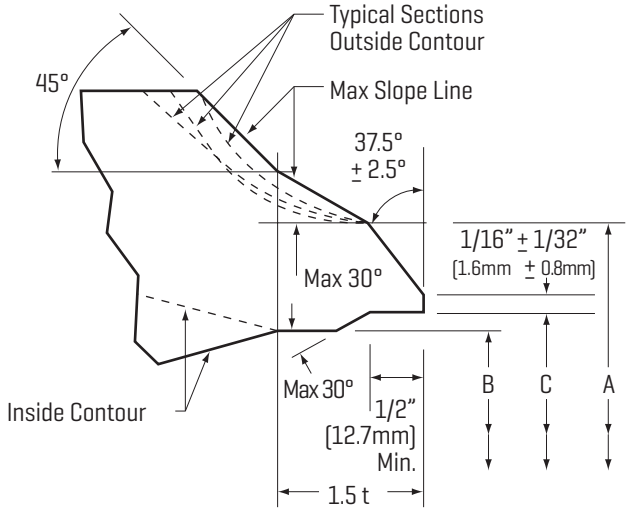
Compound Bevel Butt-welding End for Pipe Wall Thickness Greater than 7/8" (22.23mm).

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



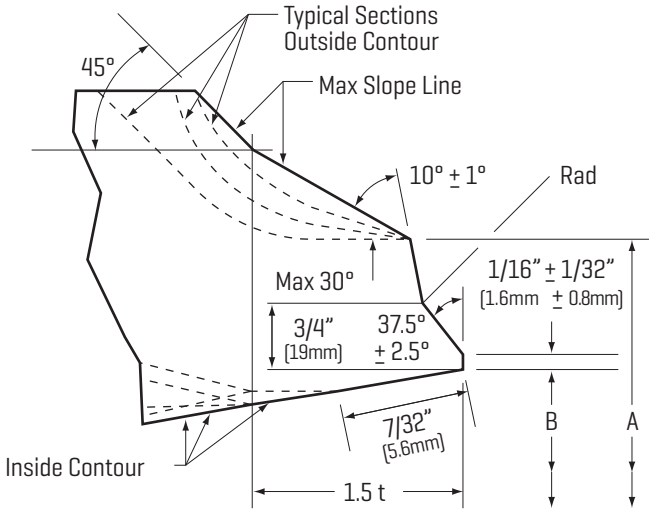
Plain Bevel Butt-welding End for Pipe Wall Thickness is 7/8" (22.23mm) or less.

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.



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.

SALES, PROJECTS, ENGINEERING, MANUFACTURING, & WAREHOUSING
3521 FM 646 Rd. North
Santa Fe, TX 77510
Phone: (281) 482-4728
Fax: (281) 482-9728
Hours: 8:00 a.m. to 5:00 p.m. Central Standard
Email: sales@scvvalve.com

SCV VALVE

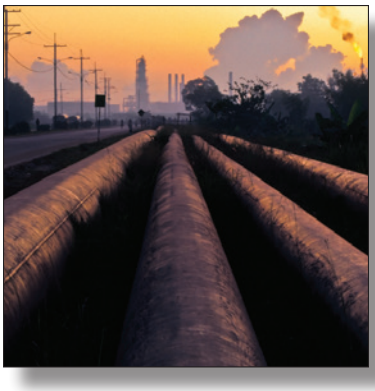
(281) 482-4728 · www.scvvalve.com

Rev: SCVTCGV - 031819

SCV VALVE
Innovative Valve Solutions®



(281) 482-4728 · www.scvvalve.com









3-Piece Trunnion Ball Valves - API 6D
Full & Reduced Port

Class: 150 - 2500
Sizes: 1” - 42”



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

SCV VALVE









SCV VALVE manufactures some of the most dependable cast and forged steel Ball Valves in the industry. Our products are manufactured and tested in accordance with respective API, ASME, and ANSI standards. With features such as double block and bleed capabilities, secondary sealant injections, and spring energized self relieving seats, the SCV design offers many features and options beneficial for oil, gas, and liquid applications making it one of the most preferred ball valves on the market.

Innovative Valve Solutions.®

SCV Ball Valves

[Product Preview]

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

3-Piece Trunnion Ball Valves - API 6D - Full & Reduced Port

- Basic Design: API 6D
- Wall Thickness: API 6D
- Face-to-Face Dimension: API 6D
- Flange End Dimension: ANSI/ASME B16.5 (1" to 24"), ANSI/ASME B16.47 (26" & up)
- Butt-Weld End Dimension: ANSI/ASME B16.25
- Inspection & Testing: API 6D
- Fire Safe Design: API 607/BS 6755

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



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.

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Complete Product Line

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

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

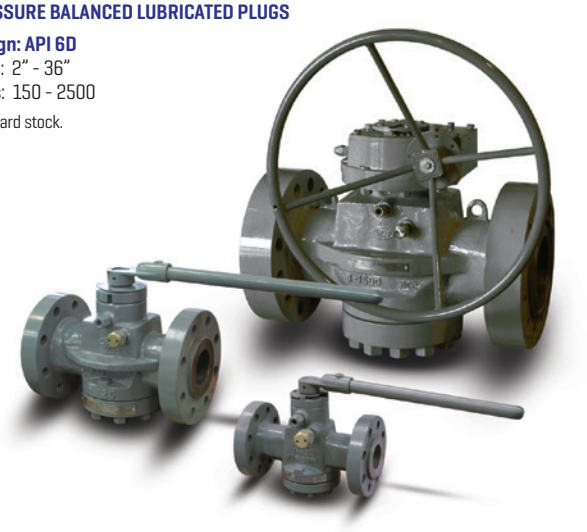
Standard stock.



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: JANUARY 16, 2018
Expiration Date: DECEMBER 6, 2019

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

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, 2016
Expiration Date: DECEMBER 6, 2019

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

Note: Extension letter availavle on our website.

ISO 9001:2008 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: 12 August 2018
Expiration Date: 15 June 2019
Issue Date: 12 August 2018

Alex Weisselberg, 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. 16855 Northchase Drive, Houston, TX 77060, U.S.A.
Validity of this certificate may be confirmed at www.abs-qe.com/cert_validation.

Copyright 2011-2018 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-03
Date of Issue: 28-Jul-2016
Date of Expiry: 24-Jun-2019
Surveillance due Jun 2017

Manufacturer: SCV Valve
- 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: Each valve CE marked

Other Certification Standards Applied: ABSQE ISO 9001 cert 44073 exp. Sep.2018
API 6A, API 6D

Report Reference: HPiVS/P1012-055-3

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 Notified Body number should also be placed on the equipment

Managing Director
Technical Manager

CE
EU Notified Body No. 1521
Company registered in England #7217086
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Tel +44 1491 822818
Fax +44 700 600 6831
Email enquiries@eucertification.com
www.eucertification.com

HPi Verification Services Ltd.
The Manor House
Howbery Park, Wallingford
OX10 8BA, United Kingdom

Canadian Registration Number

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

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

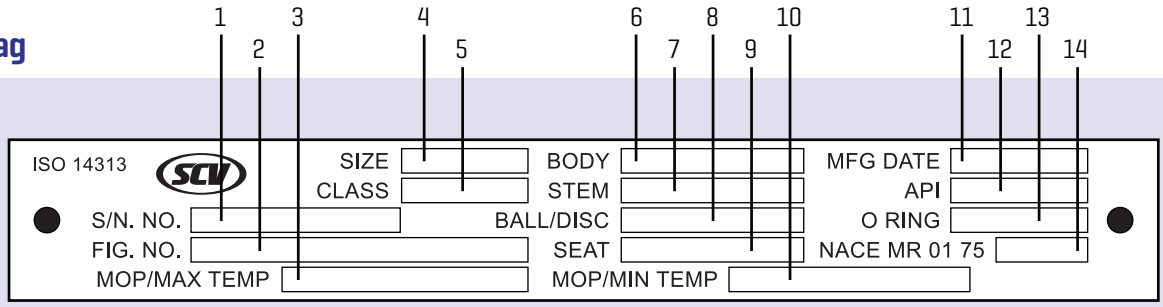
	Figure No. Chart Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Pressure Classes	**Type**	**Size**	**Class**	**Body Conf.**	**Body**	**Obturator**	**End**	**Oper**	**Bore Type**	**Seal**	**Seat.base**	**Seat/Insert**	**Stem**	**Packing**	**Service**
TRUNNION BALL	150, 300, 600	BAL	12	06	B	12	15	R	G	F	H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

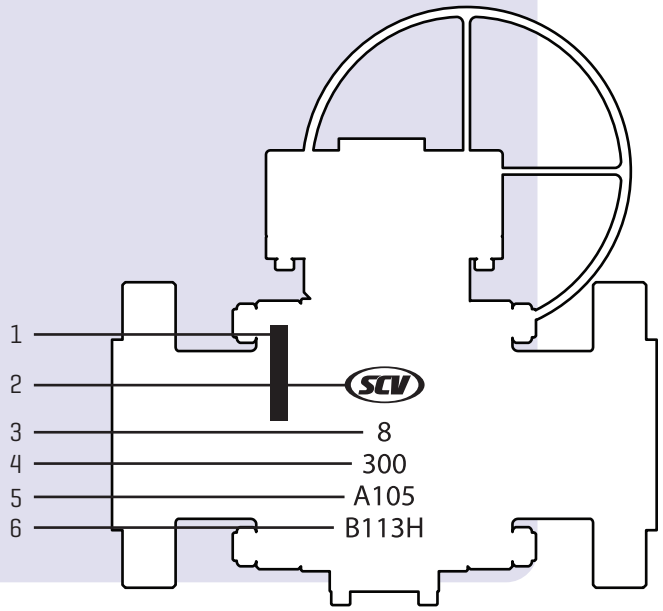
Valve ID Tag



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

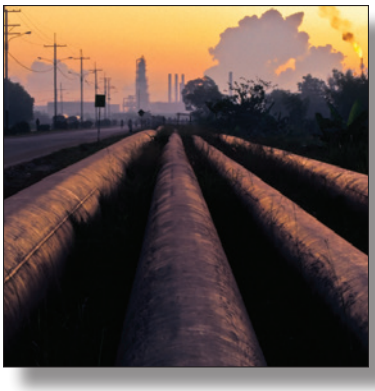
Valve Markings

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









3-Piece Trunnion Ball Valves - API 6D
Full & Reduced Port
Class: 150 - 2500/Sizes: 1" - 42"

Design and Manufacturing Standards	
Basic Design	API 6D
Wall Thickness	API 6D
Face-to-Face Dimension	API 6D
Flange End Dimension	ANSI/ASME B16.5 (1" to 24") ANSI/ASME B16.47 (26" & up)
Butt-Weld End Dimension	ANSI/ASME B16.25
Inspection & Testing	API 6D
Fire Safe Design	API 607/BS 6755

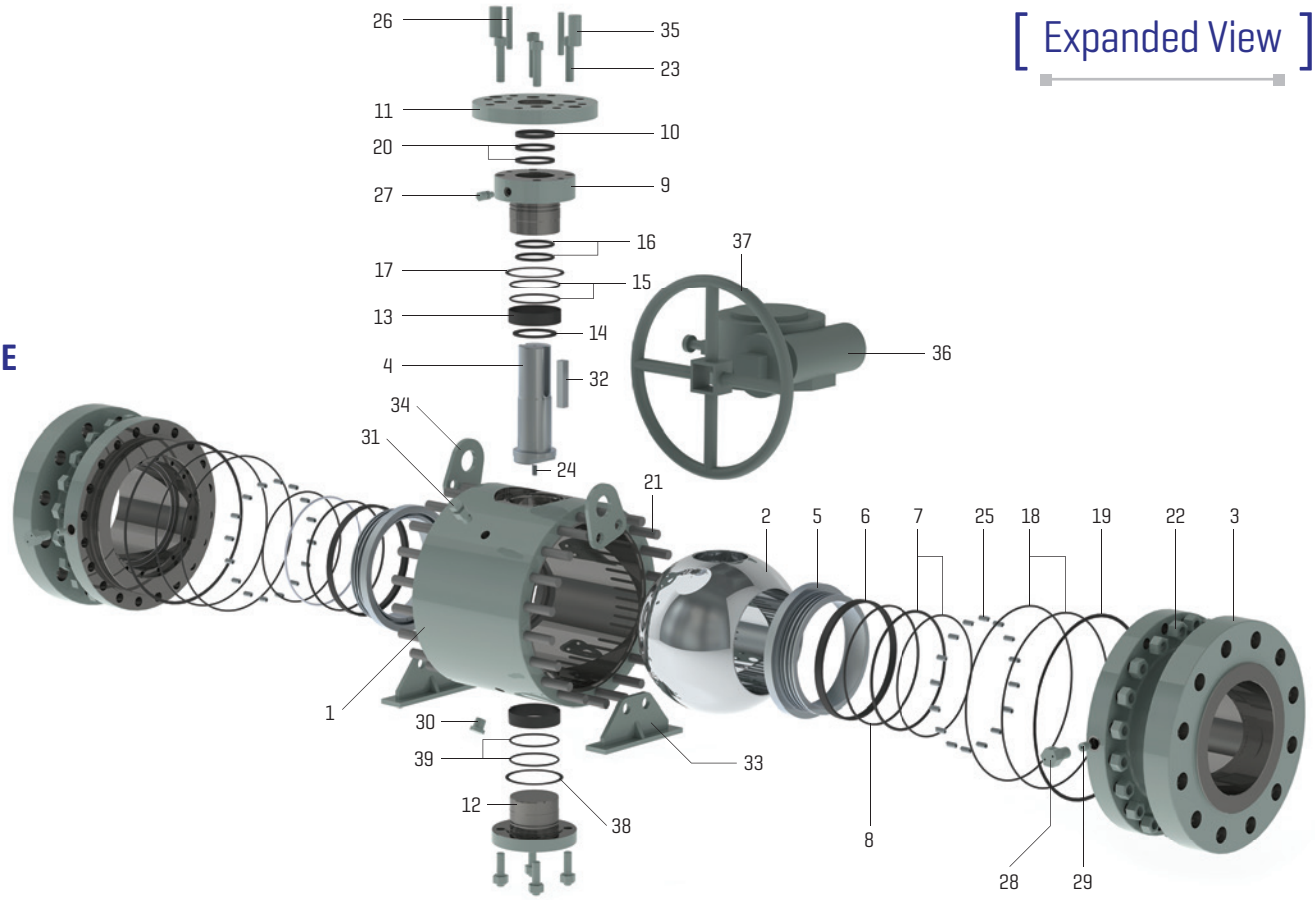


API 6D Trunnion Ball Valve
Size: 36"
Class: 600
Bore Coating: Scotchkote™ 134

3-Piece Trunnion Ball Valves - API 6D
Model E & I: Full & Reduced Port

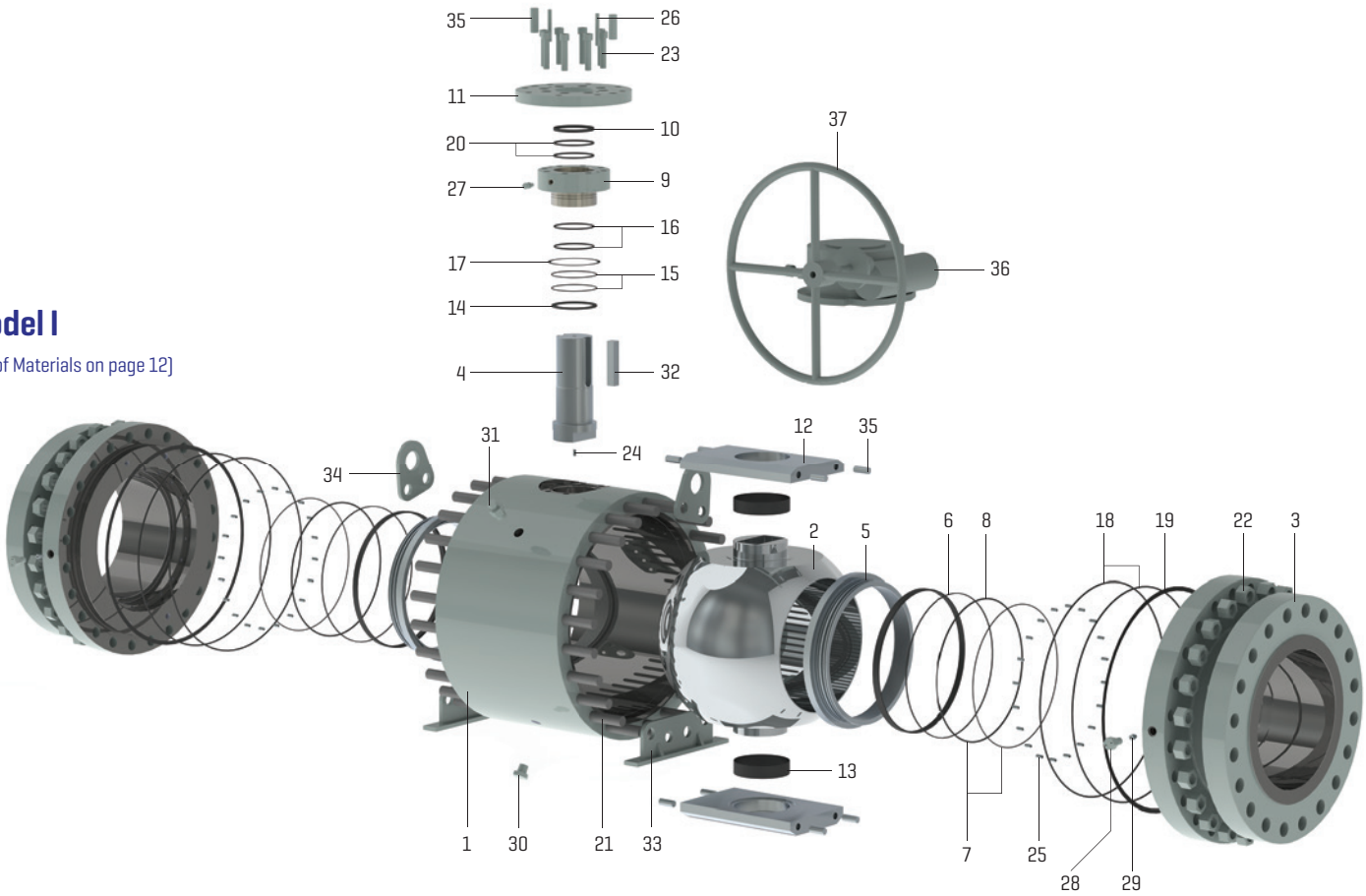
[Expanded View]

Model E



Model I

[Bill of Materials on page 12]



3-Piece Trunnion Ball Valves - API 6D
Model E: Full & Reduced Port

[Bill of Materials]

No	Name Of Part	Materials	
1	Body	A350 LF2	A182 F316
2	Ball	A350 LF2+ENP	A182, F316, A351, CF8M, 410 SS
3	Adapter	A350 LF2	A182, F316, A351, CF8M
4	Stem	A350 LF2+ENP	316 SS, 17-4 PHSS, 410 SS
5	Seat Ring	A350 LF2+ENP	316 SS, 410 SS
6	Seat Insert	Devlon, Nylon, PEEK, RTFE	
7	Seat O-ring (2)	Low Temp HNBR /Viton AED	
8	Seat Seal	Graphite	
9	Gland	A350 LF2	316 SS, 410 SS
10	Gland Ring	A350 LF2	316 SS, 410 SS
11	Mounting Plate	A350 LF2	316 SS, 410 SS
12	Trunnion	A350 LF2	316 SS, 410 SS
13	Trunnion Bearing (2)	PTFE, Carbon Steel	PTFE, 316 SS
14	Thrust Washer	PTFE, Carbon Steel	PTFE, 316 SS
15	Gland O-ring (2)	Low Temp HNBR /Viton AED	
16	Stem O-ring (2)	Low Temp HNBR /Viton AED	
17	Gland Gasket	Graphite	
18	Adapter O-ring (2)	Low Temp HNBR /Viton AED	
19	Adapter Gasket	Graphite	
20	Mounting Plate Gasket (2)	Graphoil	
21	Stud Bolt	A320 L7M	A193 B8
22	Hex Nut	A194 7M	A194 8
23	SHCS	A320 L7M	A193 B8
24	Anti-Static Spring	Inconel X-750	
25	Seat Spring	Inconel X-750	
26	Dowel Pin	Carbon Steel	Stainless Steel
27	Grease Fitting	Carbon Steel	316 SS
28	Grease Fitting, BGH	Carbon Steel	316 SS
29	Ball Check	Stainless Steel	
30	NPT Plug	Carbon Steel	316 SS
31	Vent Fitting	Carbon Steel	316 SS
32	Stem Key	Carbon Steel	Stainless Steel
33	Foot Plate	Carbon Steel	Stainless Steel
34	Lift Plate	Carbon Steel	Stainless Steel
35	Body Dowel Pin	Carbon Steel	Stainless Steel
36	Gear Operator	Ductile Iron, Carbon Steel Worm Gear	
37	Handwheel	Carbon Steel, Ductile Iron	
38	Trunnion Gasket	Graphite	
39	Trunnion O-ring (2)	Low Temp HNBR /Viton AED	

Note: Materials also available in F321, F347, F51, F53, monel, inconel, incolloy and hastelloy. Metal-to-metal seated ball valve designs are available upon request.

Note: Additional materials available upon request.
*= Used only with bolted body construction.

3-Piece Trunnion Ball Valves - API 6D
Model I: Full & Reduced Port

[Bill of Materials]

No	Name Of Part	Materials	
1	Body	A350 LF2	A182 F316
2	Ball	A350 LF2+ENP	A182, F316, A351, CF8M, 410 SS
3	Adapter	A350 LF2	A182, F316, A351, CF8M
4	Stem	A350 LF2+ENP	316 SS, 17-4 PHSS, 410 SS
5	Seat Ring	A350 LF2+ENP	316 SS, 410 SS
6	Seat Insert	Devlon, Nylon, PEEK, RTFE	
7	Seat O-ring (2)	Low Temp HNBR /Viton AED	
8	Seat Seal	Graphite	
9	Gland	A350 LF2	316 SS, 410 SS
10	Gland Ring	A350 LF2	316 SS, 410 SS
11	Mounting Plate	A350 LF2	316 SS, 410 SS
12	Trunnion	A350 LF2	316 SS, 410 SS
13	Trunnion Bearing (2)	PTFE, Carbon Steel	PTFE, 316 SS
14	Thrust Washer	PTFE, Carbon Steel	PTFE, 316 SS
15	Gland O-ring (2)	Low Temp HNBR /Viton AED	
16	Stem O-ring (2)	Low Temp HNBR /Viton AED	
17	Gland Gasket	Graphite	
18	Adapter O-ring (2)	Low Temp HNBR /Viton AED	
19	Adapter Gasket	Graphite	
20	Mounting Plate Gasket	Graphoil	
21	Stud Bolt	A320 L7M	A193 B8
22	Hex Nut	A194 7M	A194 8
23	SHCS	A320 L7M	A193 B8
24	Anti-Static Spring	Inconel X-750	
25	Seat Spring	Inconel X-750	
26	Dowel Pin	Carbon Steel	Stainless Steel
27	Grease Fitting	Carbon Steel	316 SS
28	Grease Fitting, BGH	Carbon Steel	316 SS
29	Ball Check	Stainless Steel	
30	NPT Plug	Carbon Steel	316 SS
31	Vent Fitting	Carbon Steel	316 SS
32	Stem Key	Carbon Steel	Stainless Steel
33	Foot Plate	Carbon Steel	Stainless Steel
34	Lift Plate	Carbon Steel	Stainless Steel
35	Trunnion Dowel Pin	Carbon Steel	Stainless Steel
36	Gear Operator	Ductile Iron, Carbon Steel Worm Gear	
37	Handwheel	Carbon Steel, Ductile Iron	

Note: Materials also available in F321, F347, F51, F53, monel, inconel, incolloy and hastelloy. Metal-to-metal seated ball valve designs are available upon request.

Note: Additional materials available upon request.

LOW F.E. PROVEN

www.scvvalve.com

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

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

Standard Features

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

3-Piece Trunnion Ball Valves - API 6D
Full & Reduced Port

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

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



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

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

SCV VALVE
Innovative Valve Solutions®

SCV_FE_1226171

3-Piece Trunnion Ball Valves - API 6D
Full & Reduced Port Design Features & Applications

The SCV 3-piece forged body Trunnion Mounted ball valves are designed to meet API`s highest industry standards. SCV manufactures these trunnion ball valves in bolted body construction to meet the most stringent requirements for industries such as oil, gas, gathering, transmission, distribution, storage, LNG and Petrochemical.

Seal Feature

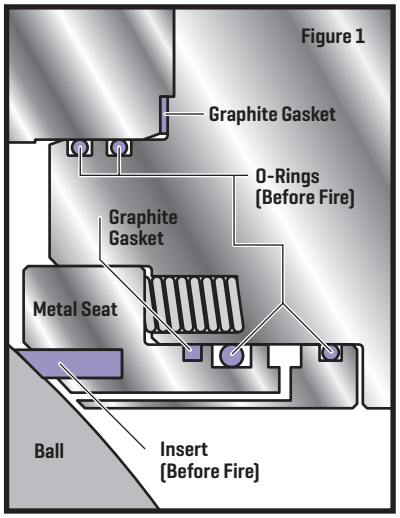
The SCV trunnion mounted ball valves are produced with spring loaded seats. This spring load keep the seats in constant contact with the ball, even in the absence of line pressure and makes a very effective seal at low line pressure. As the pressure increases the seat ring is forced onto the ball and a tight seal becomes effective. The higher the line pressure the greater the force exerted by the seat against the ball.

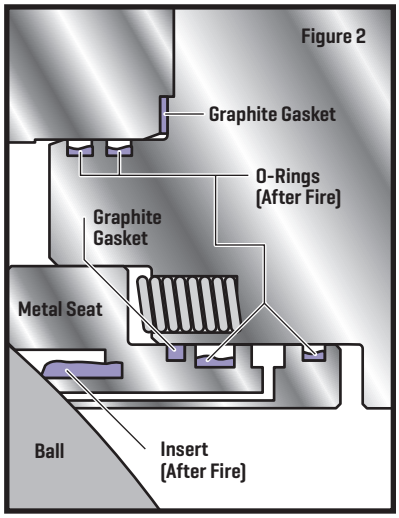
Self Lubrication

SCV uses seat insert material that provides self lubrication . The seat insert material choices consist of PTFE. Nylon, Devlon, Peek, or any other low friction material that that may be required to meet the application. The self-lubrication insert materials help support the predictable operating torque.

Fire Safe Construction with Secondary Metal Seat

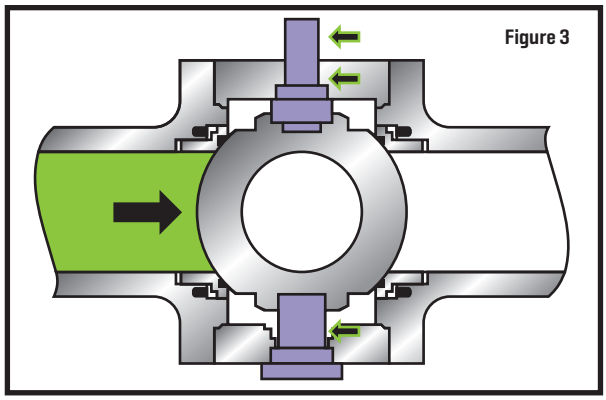
SCV ball valves have been fire tested and can be supplied to API 6FA and API 607. The soft seat inserts, irrespective of their materials, will possibly fail when subjected to fire conditions. SCV provides a fire-safe design which may substantially prevent leakages through seals when damaged by fire. The function of the seats before and after the fire test are as shown. If the seat inserts are destroyed, a metal to metal seal is formed between seat and ball. The seat to body graphite seals, graphite stem packing, and graphite gasket end closures are designed to resist high temperature and will remain undamaged. **(Figures 1 & 2)**

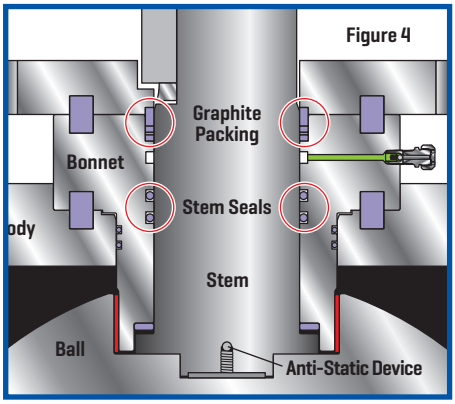




Trunnion Mounting

Trunnion mounted TEFLON coated bearings on the stems absorb the thrust from line pressure, preventing excess friction between the ball and seats, so even at full rated working pressure, operating torque stays low. **(Figure 3)**





Anti-Static Device

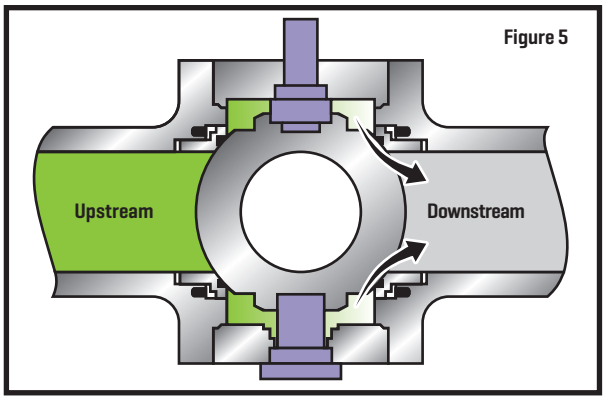
The ball/spring assembly provided at the stem allows the static charges to be discharged to the piping. In this way, an electrostatic charging of the ball is eliminated. **(Figure 4)**

Blow Out Proof Stem with Stem Seals

The stem has been designed with a lower flange. The valve body bonnet retains the stem in place and prevent any possible blowout. The stem is sealed with 2 orings, this feature allows for the stem packing to be replaced while the valve is in line and under pressure. **(Figure 4)**

Single Piston Effect (SPE) - Self Relieving Seats

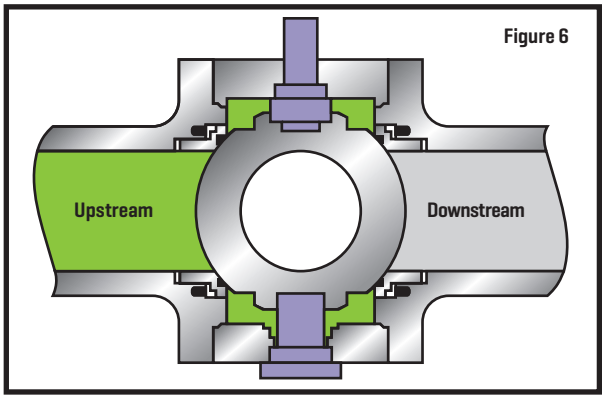
With the ball in the closed position, media pressure builds on the upstream side of the ball. This pressure forces the upstream seat ring against the ball for a tight seal. With only spring pressure sealing the downstream side, excess body cavity pressure pushes the downstream seat rings away from the ball relieving overpressure in the body cavity. This seat arrangement meets **Block & Bleed** requirements. Single Piston Effect (SPE) seat rings are "self-relieving." **(Figure 5)**



Double Piston Effect (DPE)

With the ball in the closed position and pressure from a single source, in the event the upstream seat fails, pressure will increase in the body cavity.The cavity pressure activates the downstream seat's double piston effect creating a second seal on the ball. This seat arrangement meets **Double Isolation & Bleed** requirements. **(Figure 6)**

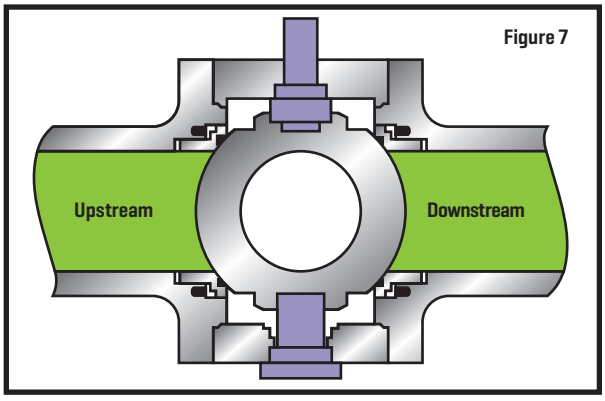
Definition of Double Isolation and Bleed (DIB): A single valve with two seating surfaces, each of which, in the closed position, provides a seal against pressure from a single source, with a means of venting/bleeding the cavity between the seating surfaces. This feature can be provided in one direction or both directions.



Double Block and Bleed (DBB)

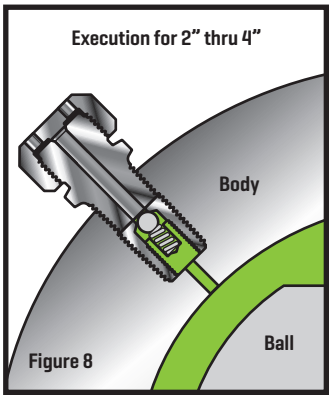
The Double Block and Bleed feature is offered with both seat ring configurations (SPE & DPE). When the ball is closed, pressure is "blocked" from the body cavity by the pressure activated seats. The body cavity can then be vented/bled. **(Figure 7)**

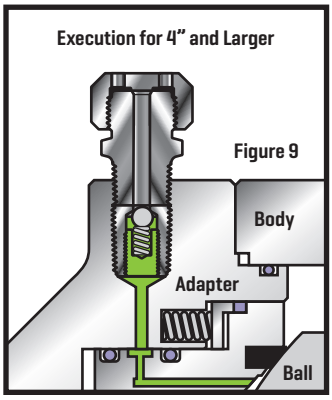
Definition of Double Block and Bleed: A single valve with two seating surfaces that, in the closed position, provides a seal against pressure from both ends of the valve with a means of venting/bleeding the cavity between the seating surfaces.

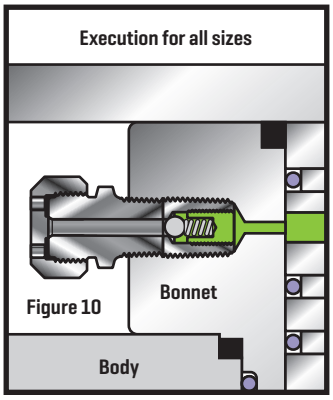


Sealant Fitting

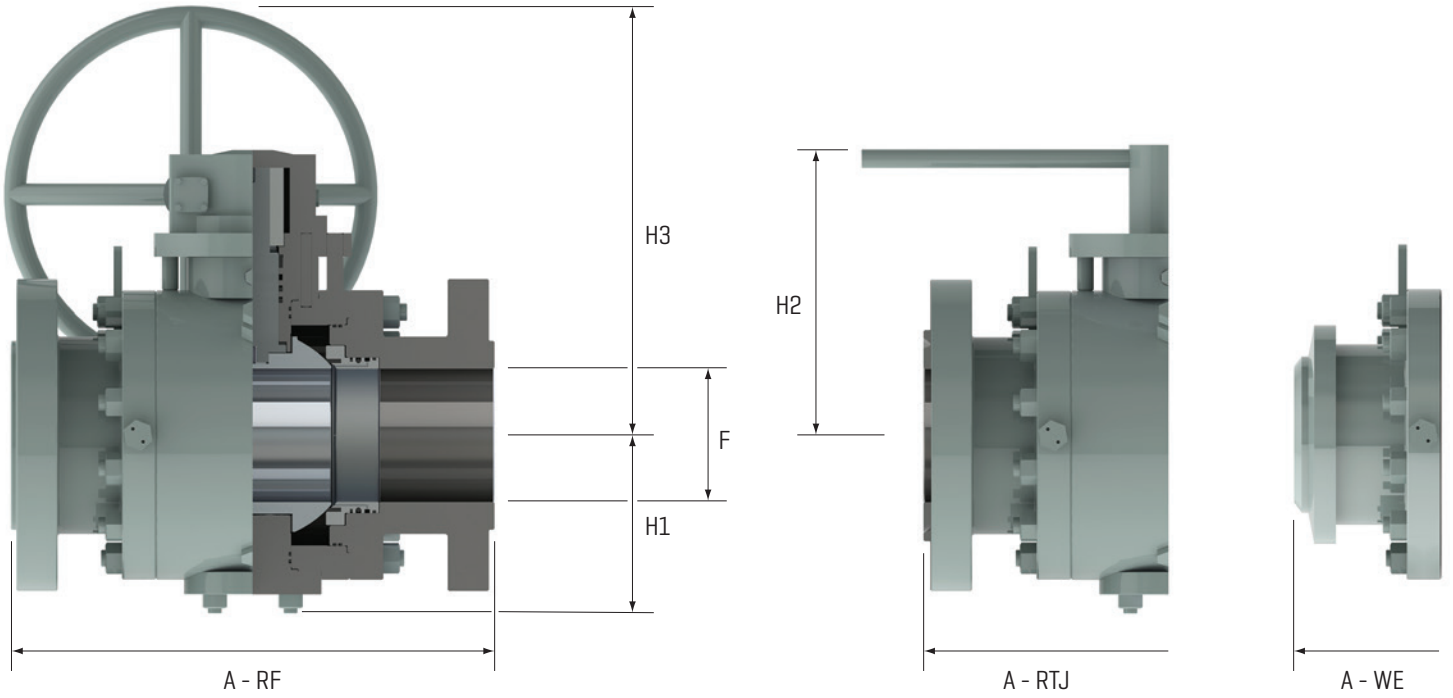
Sealant lubrication fittings are standard on this SCV design. In the event of seat insert or stem seal damage, leakage can occur. Emergency sealant/lubricant injection can save the integrity of the valve by incorporating a seal around the stem or between the seat and the ball until properly serviced. These fittings also act as a lubrication port for regular maintenance. **(Figures 8, 9 & 10)**







3-Piece Trunnion Ball Valves Full Port - API 6D
Size: 2” - 42” Class: 150

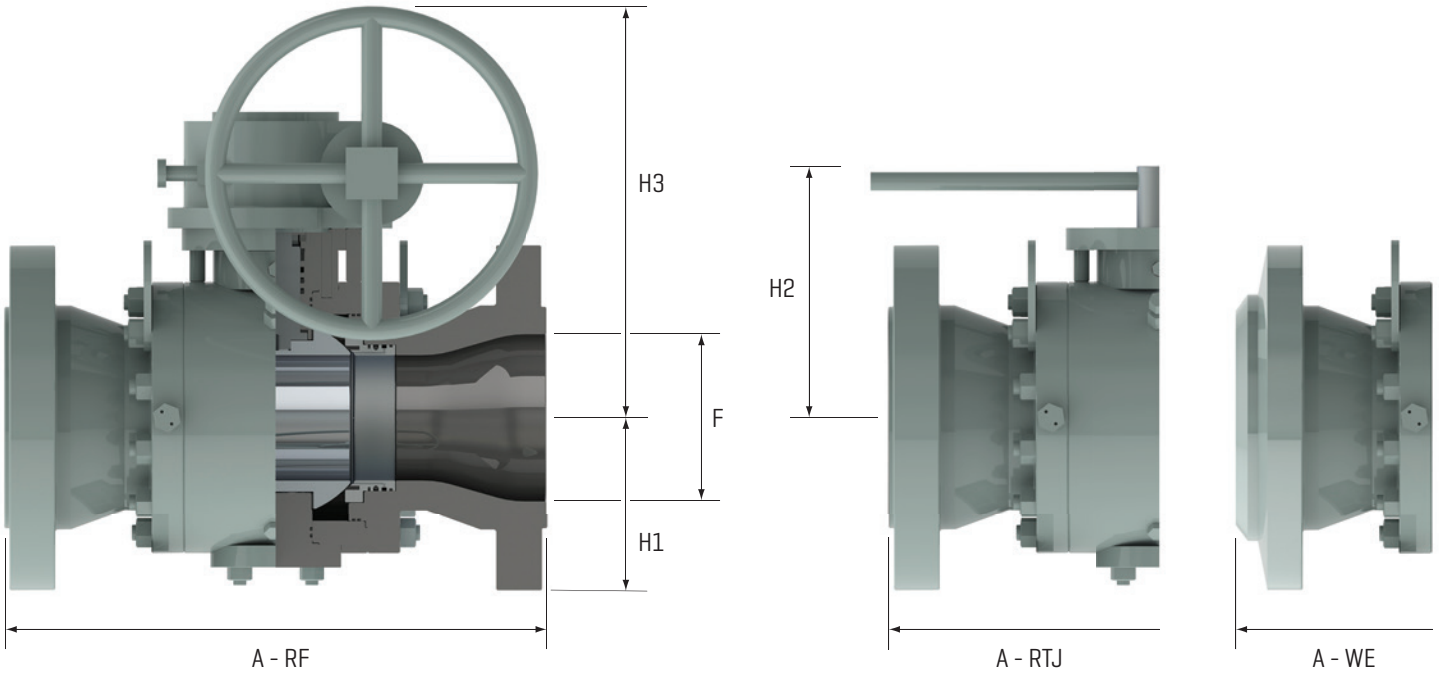


	Size		Bore	End-to-End			Body Dimensions			Trunnion		FLG Weights LBS/KG	BW Weights LBS/KG
			F	A - RF	A - RTJ	A - WE	H1	H2	H3	EXT	INT		
CLASS 150	IN	2 x 2*	2.00	7.00	/	8.50	4.44	6.50	8.90	●		39.6	28.6
	MM	50 x 50	51	178	/	216	113	165	226			18	13
	IN	3 x 3*	3.00	8.00	/	11.125	5.56	8.69	11.09	●		68.2	52.8
	MM	80 x 80	76	203	/	283	141	221	282			31	24
	IN	4 x 4*	4.00	9.00	/	12.00	6.50	9.56	11.96	●		118.8	94.6
	MM	100 x 100	102	229	/	305	165	243	304			54	43
	IN	6 x 6	6.00	15.50	/	18.00	8.69	12.19	14.59	●		497.2	398.2
	MM	150 x 150	152	394	/	547	221	310	371			226	181
	IN	8 x 8	8.00	18.00	/	20.50	10.38	14.80	17.20	●		748	646.8
	MM	200 x 200	203	457	/	521	264	376	437			340	294
	IN	10 x 10	10.00	21.00	/	22.00	12.13	16.63	19.78	●		1196.8	1047.2
	MM	250 x 250	254	533	/	559	308	422	502			544	476
	IN	12 x 12	12.00	24.00	/	25.00	13.88	18.69	21.84	●		1696.2	1546.6
	MM	300 x 300	305	610	/	635	353	475	555			771	703
	IN	14 x 14	13.25	27.00	/	30.00	15.50	21.00	24.15	●		2343	2145
	MM	350 x 350	337	686	/	762	394	533	613			1065	975
	IN	16 x 16	15.25	30.00	/	33.00	17.19	22.75	26.75		●	3042.6	2743.4
	MM	400 x 400	387	762	/	838	437	578	680			1383	1247
	IN	18 x 18	17.25	34.00	/	36.00	18.75	25.75	29.80		●	4389	3940.2
	MM	450 x 450	438	864	/	914	476	654	757			1995	1791
	IN	20 x 20	19.25	36.00	/	39.00	20.50	27.05	32.50		●	5288.8	4789.4
	MM	500 x 500	489	914	/	991	521	687	826			2404	2177
	IN	24 x 24	23.25	42.00	/	45.00	24.38	32.80	36.67		●	8681.2	7933.2
	MM	600 x 600	591	1067	/	1143	619	833	931			3946	3606
	IN	26 x 26	25.00	45.00	/	49.00	34.83	50.00	55.91		●	10476.4	9429.2
	MM	650 x 650	635	1143	/	1247	885	1270	1420			4762	4286
	IN	28 x 28	27.00	49.00	/	53.00	36.40	52.45	58.36		●	11974.6	10775.6
	MM	700 x 700	686	1247	/	1346	925	1332	1482			5443	4898
	IN	30 x 30	29.00	51.00	/	55.00	38.77	55.75	61.95		●	14966.6	13470.6
	MM	800 x 800	737	1295	/	1397	985	1416	1574			6803	6123
	IN	36 x 36	34.50	60.00	/	68.00	44.54	63.90	70.10		●	24945.8	22451
	MM	900 x 900	876	1524	/	1727	1131	1623	1781			11339	10205
	IN	42 x 42	34.50	73.00	/	82.00	44.54	63.90	70.10		●	24945.8	22451
	MM	1050 x 1050	876	1854	/	2083	1131	1623	1781			11339	10205

* = Lever operated

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.

3-Piece Trunnion Ball Valves Reduced Port - API 6D
Size: 3” - 42” Class: 150

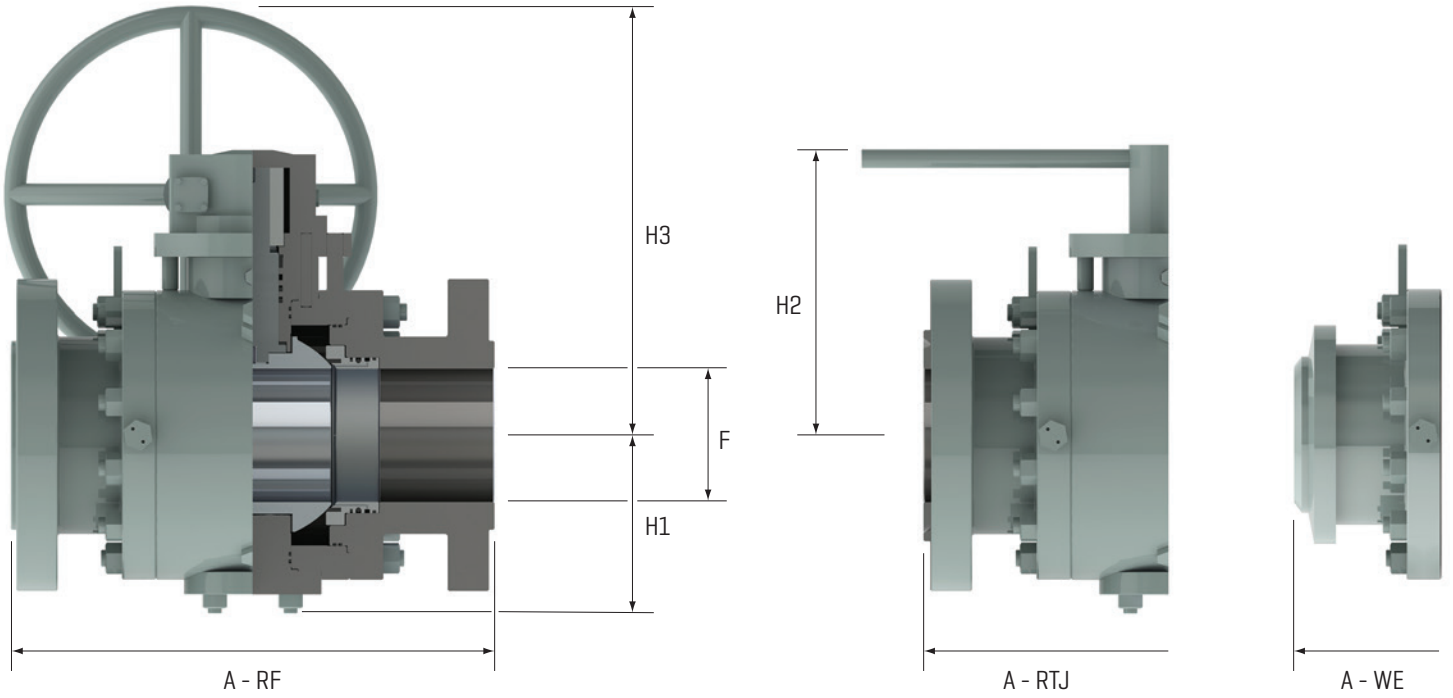


	Size		Bore	End-to-End			Body Dimensions			Trunnion		FLG Weights LBS/KG	BW Weights LBS/KG
			F	A - RF	A - RTJ	A - WE	H1	H2	H3	EXT	INT		
CLASS 150	IN	3 x 2*	2.00	8.00	/	11.125	5.22	7.28	9.68	●		48.4	33
	MM	80 x 50	51	203	/	283	133	185	246			22	15
	IN	4 x 3*	3.00	9.00	/	12.00	6.34	9.47	11.87	●		88	74.8
	MM	100 x 80	76	229	/	305	161	241	301			40	34
	IN	6 x 4*	4.00	15.50	/	18.00	7.28	10.34	12.74	●		149.9	118.8
	MM	150 x 100	102	394	/	457	185	263	324			68	54
	IN	8 x 6	6.00	18.00	/	20.50	9.47	13.29	15.59	●		598.4	497.2
	MM	200 x 150	152	457	/	521	541	338	396			272	226
	IN	10 x 8	8.00	21.00	/	22.00	11.16	15.90	18.30	●		847	748
	MM	250 x 200	203	533	/	559	283	404	465			385	340
	IN	12 x 10	10.00	24.00	/	25.00	13.23	17.84	20.98	●		1496	1346.4
	MM	300 x 250	254	610	/	635	336	453	533			680	612
	IN	14 x 12	12.00	27.00	/	30.00	14.98	20.00	23.04	●		1845.8	1645.6
	MM	350 x 300	305	686	/	762	380	508	585			839	748
	IN	16 x 14	13.25	30.00	/	33.00	16.60	22.30	25.45		●	2593.8	2343
	MM	400 x 350	337	762	/	838	422	566	646			1179	1065
	IN	18 x 16	15.25	34.00	/	36.00	18.39	24.05	28.05		●	3440.8	3093.2
	MM	450 x 400	387	864	/	914	467	611	712			1564	1406
	IN	20 x 18	17.25	36.00	/	39.00	20.05	27.05	31.10		●	7139	4439.6
	MM	500 x 450	438	914	/	991	509	687	790			3245	2018
	IN	24 x 20	19.25	42.00	/	45.00	21.90	28.80	33.90		●	5588	5137
	MM	600 x 500	489	1067	/	1143	556	732	861			2540	2335
	IN	30 X 24	23.25	51.00	/	55.00	21.06	/	26.1		●	7562	6731
	MM	600 x	591	1295	/	1397	535	/	663			3430	3053
	IN	36 X 30	28.97	60.00	/	68.03	27.75	/	30.59		●	14220	12655
	MM	900 x 800	736	1524	/	1728	705	/	777			6450	5740
	IN	42 X 36	34.48	73.00	/	82.00	37.00	/	43.03		●	30820	27430
	MM	1050 x 900	876	1854	/	2083	940	/	1093			13980	12442

***** = Lever operated

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.

3-Piece Trunnion Ball Valves Full Port - API 6D
Size: 2” - 42” Class: 300

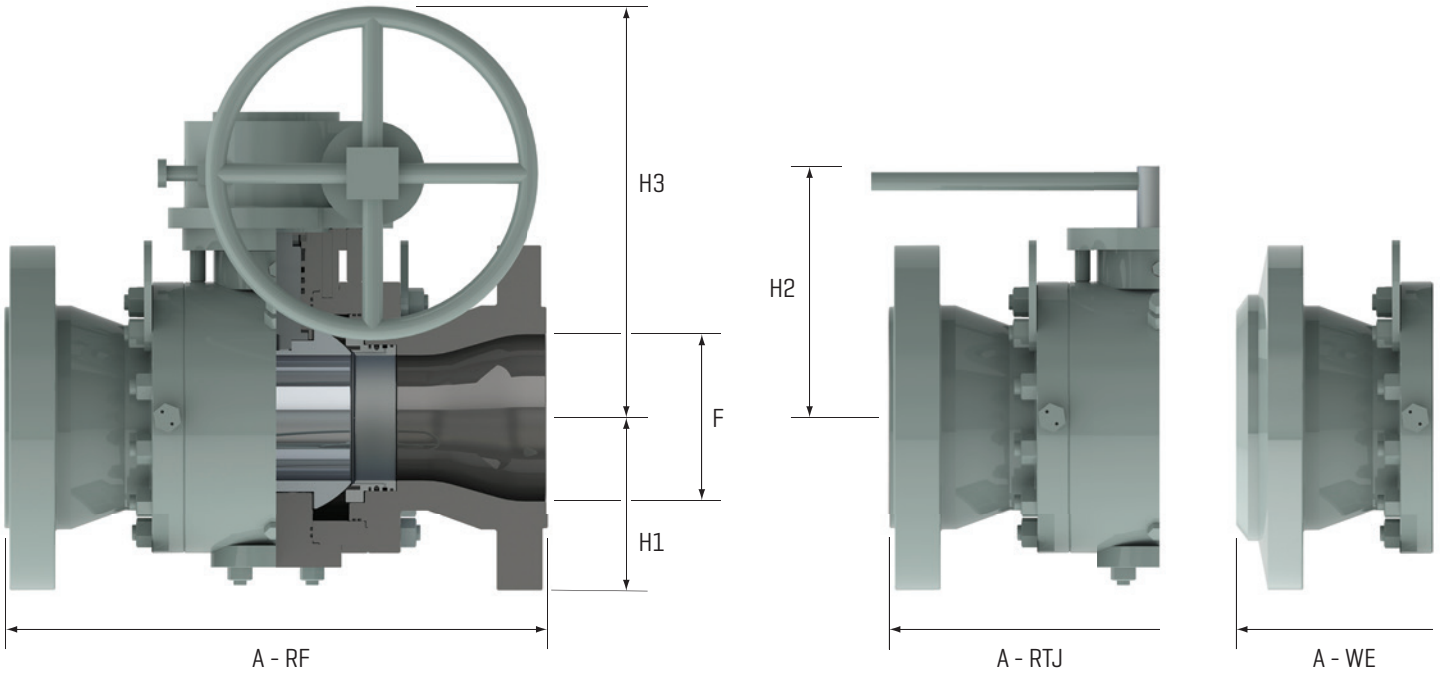


	Size		Bore	End-to-End			Body Dimensions			Trunnion		FLG Weights	BW Weights
			F	A - RF	A - RTJ	A - WE	H1	H2	H3	EXT	INT	LBS/KG	LBS/KG
CLASS 300	IN	2 x 2*	2.00	8.50	9.125	8.50	4.44	6.50	8.90	●		59.40	44
	MM	50 x 50	51	216	232	216	113	165	226			27	20
	IN	3 x 3*	3.00	11.125	11.75	11.125	5.56	8.69	11.09	●		99	79.2
	MM	80 x 80	76	283	299	283	141	221	282			45	36
	IN	4 x 4*	4.00	12.00	12.625	12.00	6.50	9.56	11.96	●		158.4	134.2
	MM	100 x 100	102	305	321	305	165	243	304			72	61
	IN	6 x 6	6.00	15.875	16.50	15.88	8.69	12.19	14.59	●		547.8	468.6
	MM	150 x 150	152	403	419	403	221	310	371			249	213
	IN	8 x 8	8.00	19.75	20.375	20.50	10.38	14.80	17.20	●		847	737
	MM	200 x 200	203	502	518	521	264	376	437			385	335
	IN	10 x 10	10.00	22.375	23.00	22.00	12.13	16.63	19.78	●		1245.2	1075.8
	MM	250 x 250	254	568	584	559	308	422	502			566	489
	IN	12 x 12	12.00	25.50	26.125	25.00	13.88	18.69	21.84	●		1894.2	1705
	MM	300 x 300	305	648	664	635	340	475	555			861	775
	IN	14 x 14	13.25	30.00	30.625	30.00	15.50	21.00	24.15	●		2593.8	2294.6
	MM	350 x 350	337	762	778	762	394	533	613			1179	1043
	IN	16 x 16	15.25	33.00	33.625	33.00	17.19	22.75	26.75		●	3440.8	3093.2
	MM	400 x 400	387	838	854	838	437	578	679			1564	1406
	IN	18 x 18	17.25	36.00	36.625	36.00	18.75	25.75	29.80		●	4987.4	4490.2
	MM	450 x 450	438	914	930	914	476	654	757			2267	2041
	IN	20 x 20	19.25	39.00	39.75	39.00	20.50	27.05	32.50		●	5486.8	4987.4
	MM	500 x 500	489	991	1010	991	521	687	826			2494	2267
	IN	24 x 24	23.25	45.00	45.875	45.00	24.38	32.80	36.67		●	9229	8430.4
	MM	600 x 600	591	1143	1165	1143	619	833	931			4195	3832
	IN	26 x 26	25.00	49.00	50.00	49.00	34.83	50.00	55.91		●	11675.4	10476.4
	MM	650 x 650	635	1245	1270	1245	885	1270	1420			5307	4762
	IN	28 x 28	27.00	53.00	54.00	53.00	36.40	52.45	58.36		●	13970	12573
	MM	700 x 700	686	1346	1372	1346	925	1332	1482			6350	5715
	IN	30 x 30	29.00	55.00	56.00	55.00	38.77	55.75	61 .95		●	16964.2	15265.8
	MM	800 x 500	737	1397	1422	1397	985	1416	1574			7711	6939
	IN	36 x 36	34.50	68.00	69.125	68.00	44.54	63.90	70.10		●	25944.6	23350.8
	MM	900 x 900	876	1727	1756	1727	1727	1623	1781			11793	10614
	IN	42 X 42	40.23	82.00	/	82.00	37.36	/	43.26		●	35935	32701
	MM	1050 x 1050	1022	2083	/	2083	949	/	1099			16300	14833

***** = Lever operated

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.

3-Piece Trunnion Ball Valves Reduced Port - API 6D
Size: 3” - 42” Class: 300

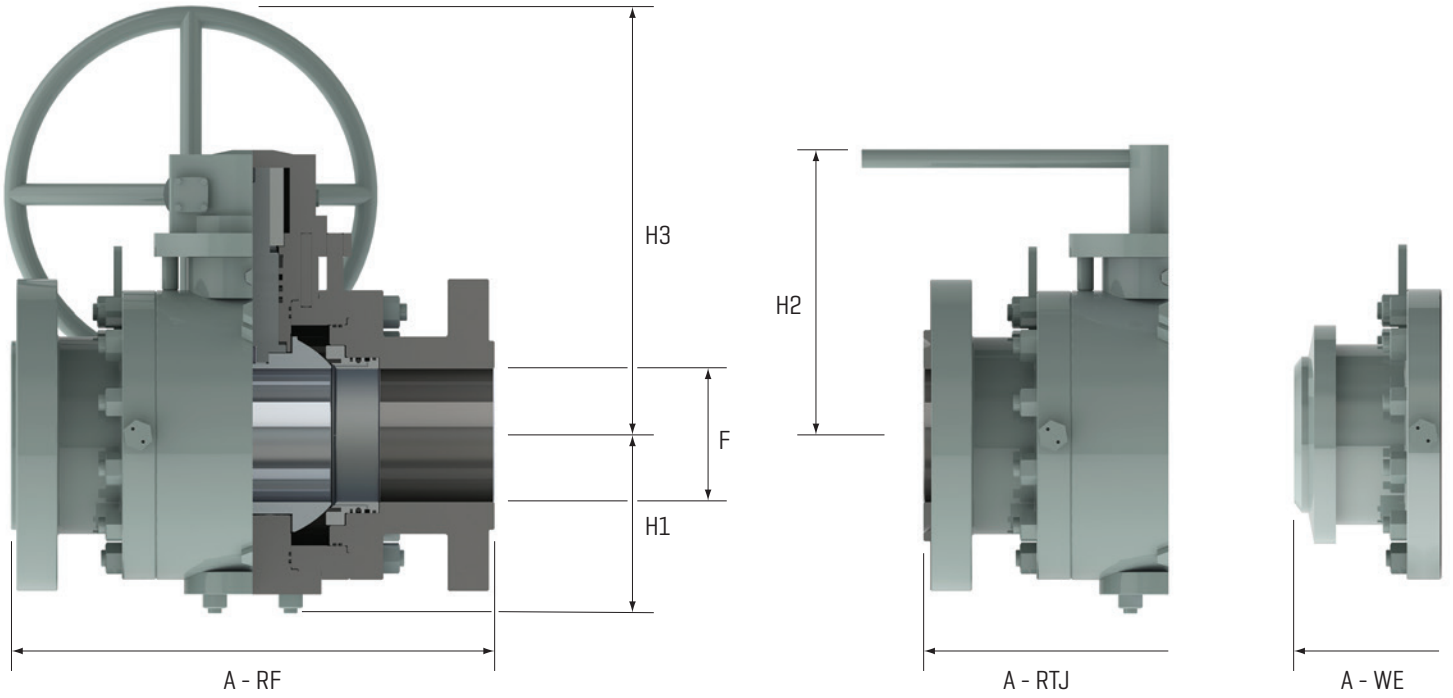


	Size		Bore	End-to-End			Body Dimensions			Trunnion		FLG Weights LBS/KG	BW Weights LBS/KG
			F	A - RF	A - RTJ	A - WE	H1	H2	H3	EXT	INT		
CLASS 300	IN	3 x 2*	2.00	11.125	11.75	11.125	5.22	7.28	9.68	●		68.2	52.8
	MM	80 x 50	51	283	299	283	133	185	279			31	24
	IN	4 x 3*	3.00	12.00	12.625	12.00	6.34	9.47	11.87	●		118.8	88
	MM	100 x 80	76	305	321	305	161	241	301			54	40
	IN	6 x 4	4.00	15.875	16.50	15.88	7.28	10.34	12.74	●		217.8	178.2
	MM	150 x 100	102	403	419	403	185	263	324			99	81
	IN	8 x 6	6.00	19.75	20.375	19.75	9.47	13.29	15.59	●		646.8	558.8
	MM	200 x 150	152	502	518	502	241	338	396			294	254
	IN	10 x 8	8.00	22.375	23.00	22.00	11.16	15.90	18.30	●		897.6	776.6
	MM	250 x 200	203	568	584	559	283	404	465			408	353
	IN	12 x 10	10.00	25.50	26.125	25.00	13.23	17.84	20.98	●		1645.6	1445.4
	MM	300 x 250	254	648	664	635	336	453	533			748	657
	IN	14 x 12	12.00	30.00	30.625	30.00	14.98	20.00	23.04	●		1995.4	1795.2
	MM	350 x 300	305	762	778	762	380	508	585			907	816
	IN	16 x 14	13.25	33.00	33.625	33.00	16.60	22.30	25.45		●	2893	2644.4
	MM	400 x 350	337	838	854	838	422	566	646			1315	1202
	IN	18 x 16	15.25	36.00	36.625	36.00	18.39	24.05	28.05		●	3940.2	3542
	MM	450 x 400	387	914	930	914	467	611	713			1791	1610
	IN	20 x 18	17.25	39.00	39.75	39.00	20.05	27.05	31.10		●	5288.8	4789.4
	MM	500 x 450	438	991	1010	991	509	687	790			2404	2177
	IN	24 x 20	19.25	45.00	45.875	43.00	21.90	28.80	33.90		●	5915.8	5337.2
	MM	600 x 500	489	1143	1165	1092	556	732	861			2698	2426
	IN	30 X 24	23.25	55	55.98	55	23.7	/	26.53		●	10207	9187
	MM	800 x 600	591	1397	1422	1397	602	/	674			4630	4167
	IN	36 X 30	28.97	68.00	69.13	68.00	28.3	/	84.09		●	18365	16345
	MM	900 x 800	736	1727	1756	1727	719	/	866			8330	7414
	IN	42 X 36	34.48	82.00	/	82.00	37.36	/	43.26		●	35935	32701
	MM	1050 x 900	876	2083	/	2083	949	/	1099			16300	14833

***** = Lever operated

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3-Piece Trunnion Ball Valves Full Port - API 6D
Size: 2” - 42” Class: 600

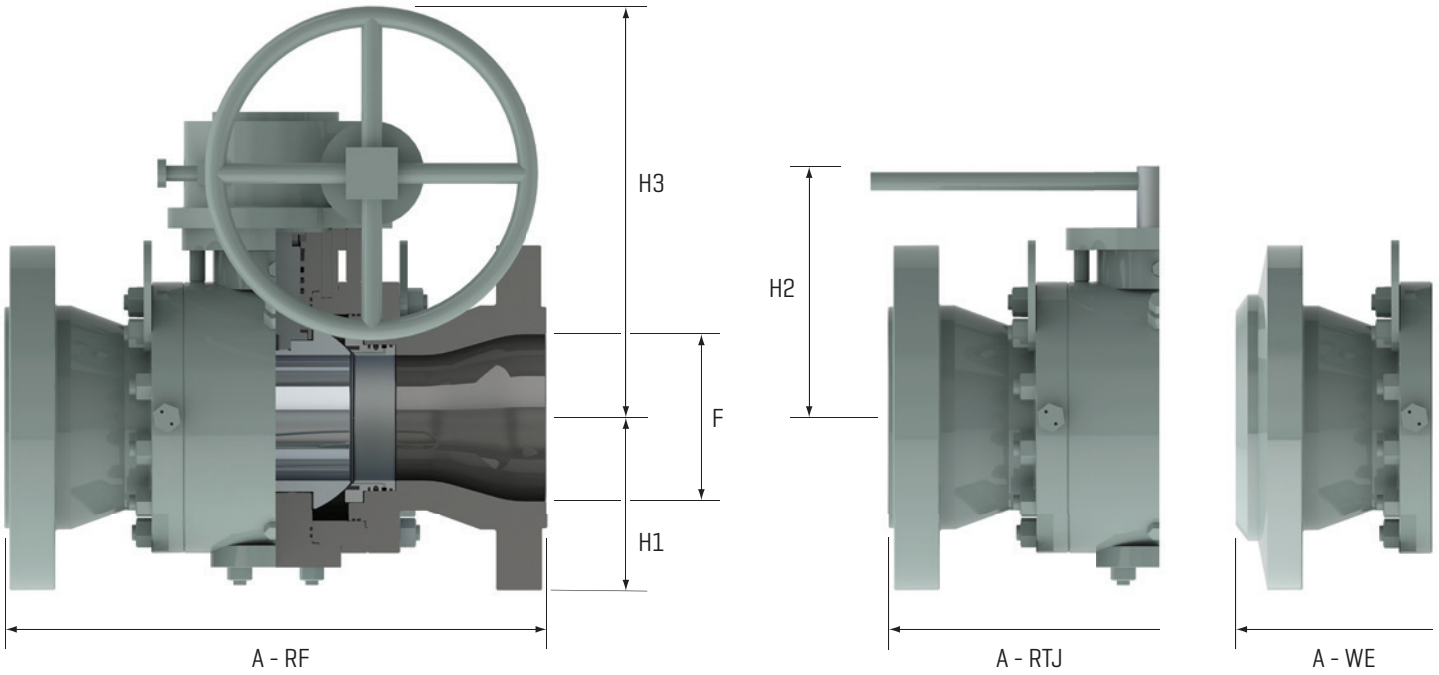


CLASS 600	Size		Bore	End-to-End			Body Dimensions			Trunnion		FLG Weights LBS/KG	BW Weights LBS/KG
			F	A - RF	A - RTJ	A - WE	H1	H2	H3	EXT	INT		
	IN	2 x 2*	2.00	11.50	11.625	11.50	4.44	6.50	8.90	●		68.2	52.8
	MM	50 x 50	51	292	295	292	113	165	226			31	24
	IN	3 x 3*	3.00	14.00	14.125	14.00	5.56	8.69	11.09	●		118.8	94.6
	MM	80 x 80	76	356	359	356	141	221	282			54	43
	IN	4 x 4*	4.00	17.00	17.125	17.00	6.50	9.56	11.96	●		217.8	178.2
	MM	100 x 100	102	432	435	432	165	243	304			99	81
	IN	6 x 6	6.00	22.00	22.125	22.00	8.69	12.19	14.59	●		598.4	497.2
	MM	150 x 150	152	559	562	559	221	310	371			272	226
	IN	8 x 8	8.00	26.00	26.125	26.00	10.38	14.80	17.20	●		1196.8	976.8
	MM	200 x 200	203	660	664	660	264	376	437			544	444
	IN	10 x 10	10.00	31.00	31.125	31.00	12.13	16.63	19.78	●		1696.2	1375
	MM	250 x 250	254	787	791	787	308	422	502			771	625
	IN	12 x 12	12.00	33.00	33.125	33.00	13.88	18.69	21.84	●		2193.4	1775.4
	MM	300 x 300	305	838	841	838	353	475	555			997	807
	IN	14 x 14	13.25	35.00	35.125	35.00	15.50	21.00	24.15		●	2943.6	2393.6
	MM	350 x 350	337	889	892	889	394	533	613			1338	1088
	IN	16 x 16	15.25	39.00	39.125	39.00	17.19	22.75	26.75		●	4538.6	3740
	MM	400 x 400	387	991	994	991	437	578	680			2063	1700
	IN	18 x 18	17.25	43.00	43.125	43.00	18.75	25.75	29.80		●	5876.2	4809.2
	MM	450 x 450	438	1092	1095	1092	476	654	757			2671	2186
	IN	20 x 20	19.25	47.00	47.25	47.00	20.50	27.05	32.50		●	6635.2	5438.4
	MM	500 x 500	489	1194	1200	1194	521	687	826			3016	2472
	IN	24 x 24	23.25	55.00	55.325	55.00	24.38	32.38	36.67		●	11523.6	10227.8
	MM	600 x 600	591	1397	1405	1397	619	822	931			5238	4649
	IN	26 x 26	25.00	57.00	57.50	57.00	31.74	40.74	45.64		●	13670.8	11475.2
	MM	650 x 650	635	1448	1461	1448	806	1035	1159			6214	5216
	IN	28 x 28	27.00	61.00	61.50	61.00	38.85	44.76	50.67		●	22451	20207
	MM	700 x 700	686	1549	1562	1549	987	1137	1287			10205	9185
	IN	30 x 30	29.00	65.00	65.50	65.00	42.00	48.20	54.40		●	23949.2	21553.4
	MM	750 x 750	737	1651	1664	1651	1067	1224	1382			10886	9797
	IN	36 x 36	34.50	82.00	82.625	82.00	47.34	53.54	59.74		●	37620	33827
	MM	900 x 900	876	2083	2099	2083	1202	1360	1517			17100	15376
	IN	42 X 42	40.23	96.00	/	96.00	38.46	/	53.3		●	47598	42362
	MM	1050 x 1050	1022	2438	/	2438	977	/	1354			21590	19215

***** = Lever operated

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.

3-Piece Trunnion Ball Valves Reduced Port - API 6D
Size: 3” - 42” Class: 600

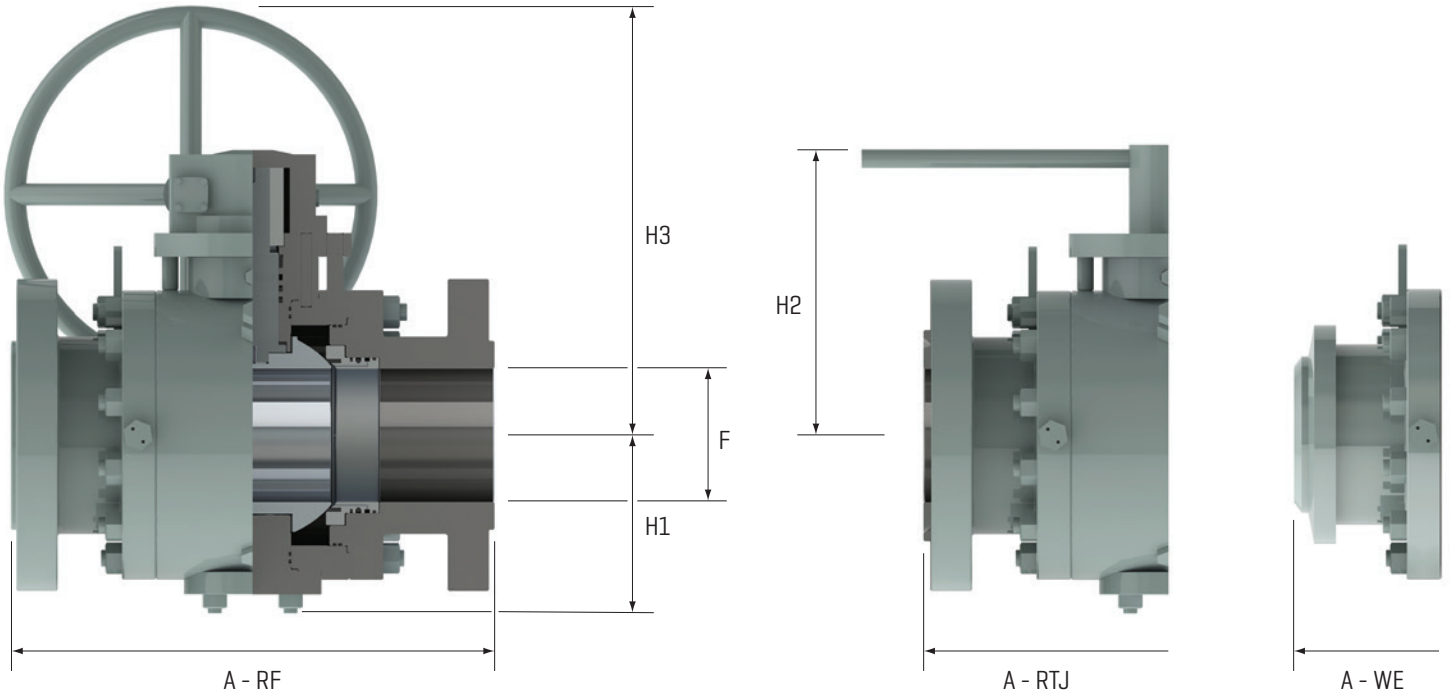


	Size		Bore	End-to-End			Body Dimensions			Trunnion		FLG Weights LBS/KG	BW Weights LBS/KG
			F	A - RF	A - RTJ	A - WE	H1	H2	H3	EXT	INT		
CLASS 600	IN	3 x 2*	2.00	14.00	14.125	14.00	5.22	7.28	9.68	●		79.2	63.8
	MM	80 x 50	51	356	359	356	133	185	279			36	29
	IN	4 x 3*	3.00	17.00	17.125	17.00	6.34	9.47	11.87	●		138.6	114.4
	MM	100 x 80	76	432	435	432	161	241	301			63	52
	IN	6 x 4	4.00	22.00	22.125	22.00	7.28	10.34	12.74	●		299.2	248.6
	MM	150 x 100	102	559	562	559	185	263	324			136	113
	IN	8 x 6	6.00	26.00	26.125	26.00	9.47	13.29	15.59	●		697.4	578.6
	MM	200 x 150	152	660	664	660	241	338	396			317	263
	IN	10 x 8	8.00	31.00	31.125	31.00	11.16	15.90	18.30	●		1346.4	1075.8
	MM	250 x 200	203	787	791	787	283	404	465			612	489
	IN	12 x 10	10.00	33.00	33.125	33.00	13.23	17.84	20.98	●		1894.2	1535.6
	MM	300 x 250	254	838	841	838	336	453	533			861	698
	IN	14 x 12	12.00	35.00	35.125	35.00	14.98	20.00	23.04		●	2593.8	2145
	MM	350 x 300	305	889	892	889	380	508	585			1179	975
	IN	16 x 14	13.25	39.00	39.125	39.00	16.60	22.30	25.45		●	3291.2	2743.4
	MM	400 x 350	337	991	994	991	422	566	646			1496	1247
	IN	18 x 16	15.25	43.00	43.125	43.00	18.39	24.05	28.05		●	5088.6	4180
	MM	450 x 400	387	1092	1095	1092	467	611	713			2313	1900
	IN	20 x 18	17.25	47.00	47.25	47.00	20.05	27.05	31.10		●	6536.2	5337.2
	MM	500 x 450	438	1194	1200	1194	509	687	790			2971	2426
	IN	24 x 20	19.25	55.00	55.325	55.00	21.90	28.80	33.90		●	7383.2	6036.8
	MM	600 x 500	489	1397	1405	1397	556	732	861			3356	2744
	IN	30 X 24	23.25	65.00	65.50	65.00	24.09	/	29.88		●	13030	11987
	MM	800 x 600	591	1651	1664	1651	612	/	759			5910	5437
	IN	36 X 30	28.97	82.00	82.625	82.00	28.58	/	34.92		●	23281	21186
	MM	900 x 800	736	2083	2098	2083	726	/	887			10560	9610
	IN	42 X 36	34.48	96.00	/	96.00	38.46	/	53.3		●	47598	42362
	MM	1050 x 900	876	2438	/	2438	977	/	1354			21590	19215

***** = Lever operated

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.

3-Piece Trunnion Ball Valves Full Port - API 6D
Size: 2” - 36” Class: 900

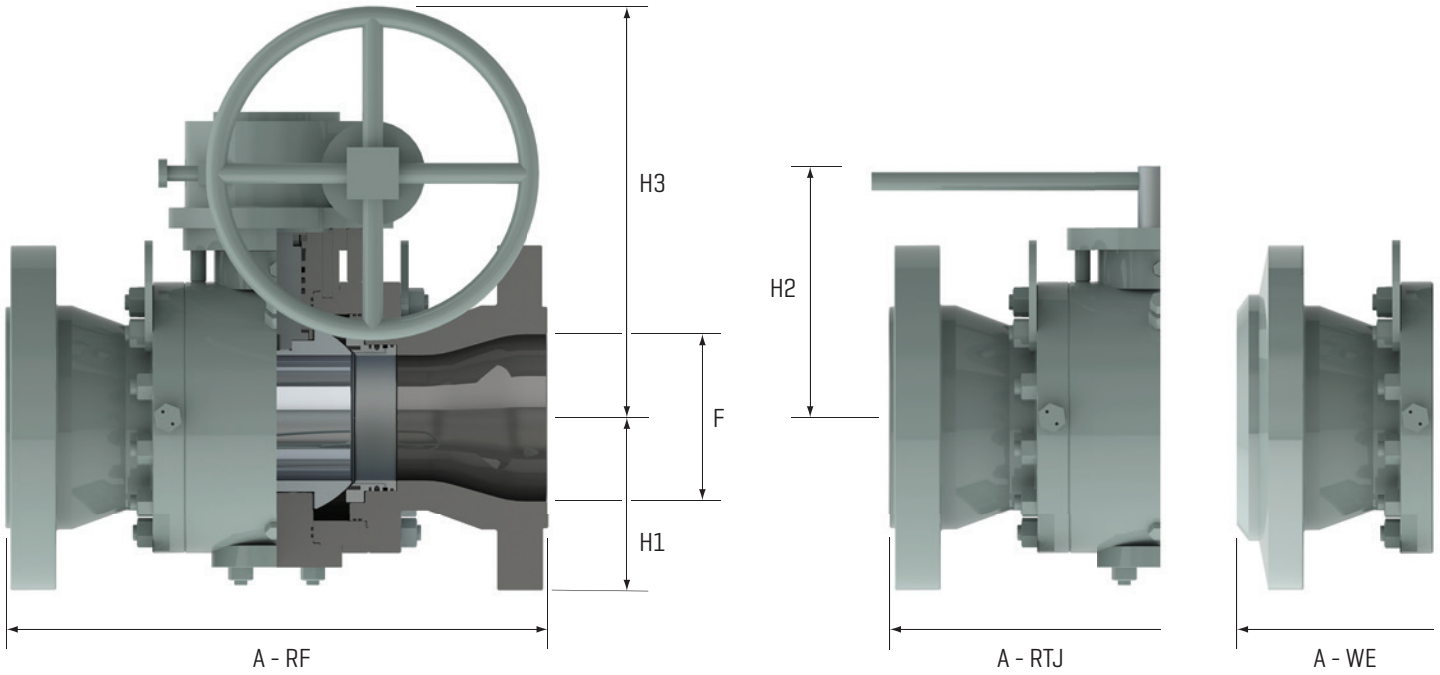


CLASS 900	Size		Bore	End-to-End			Body Dimensions			Trunnion		FLG Weights LBS/KG	BW Weights LBS/KG
			F	A - RF	A - RTJ	A - WE	H1	H2	H3	EXT	INT		
	IN	2 x 2*	2.00	14.50	14.625	14.50	4.44	7.28	10.90	●		118.8	94.6
	MM	50 x 50	51	368	372	368	113	185	277			54	43
	IN	3 x 3*	3.00	15.00	15.125	15.00	5.56	9.47	13.05	●		178.2	143
	MM	80 x 80	76	381	384	381	141	241	332			81	65
	IN	4 x 4	4.00	18.00	18.125	18.00	6.50	10.34	13.92	●		319	224.4
	MM	100 x 100	102	457	460	457	165	263	354			145	102
	IN	6 x 6	6.00	24.00	24.125	24.00	8.69	12.97	16.55	●		697.4	558.8
	MM	150 x 150	152	610	613	610	221	329	420			317	254
	IN	8 x 8	8.00	29.00	29.125	29.00	10.38	15.58	19.10	●		1546.6	1236
	MM	200 x 200	203	737	740	737	264	396	485			703	562
	IN	10 x 10	10.00	33.00	33.125	33.00	12.13	17.41	21.74	●		1846	1476
	MM	250 x 250	254	838	841	838	308	442	552			839	671
	IN	12 x 12	12.00	38.00	38.125	38.00	13.88	19.47	23.80	●		2593	2343
	MM	300 x 300	305	965	968	965	353	495	605			1315	1065
	IN	14 x 14	12.75	40.50	40.875	40.50	15.50	21.78	26.11		●	3841	3093
	MM	350 x 350	337	1029	1038	1029	394	553	663			1746	1406
	IN	16 x 16	14.75	44.50	44.875	44.50	17.19	23.53	28.71		●	4739	3791
	MM	400 x 400	387	1130	1140	1130	437	598	729			2154	1723
	IN	18 x 18	14.75	48.00	48.50	48.00	18.39	24.83	30.01		●	5438	4239
	MM	450 x 450	438	1219	1232	1219	467	631	762			3197	2562
	IN	20 x 20	18.625	52.00	52.50	52.00	20.50	28.30	34.46		●	10027.6	8032
	MM	500 x 500	489	1321	1334	1321	521	719	875			4558	3651
	IN	24 x 24	22.50	61.00	61.75	61.00	24.38	33.20	38.63		●	13372	10727
	MM	600 x 600	591	1549	1569	1549	619	843	981			6078	4876
	IN	30 x 30	28.11	74.00	74.88	74.00	31.06	/	41.18		●	27426	24410
	MM	750 x 750	714	1880	1902	1880	789	/	1046			12440	11072
	IN	36 x 36	33.74	90.00	91.14	90.00	35.43	/	46.1		●	44423	40426
	MM	900 x 900	857	2286	2315	2286	900	/	1171			20150	18337

***** = Lever operated

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.

3-Piece Trunnion Ball Valves Reduced Port - API 6D
Size: 3” - 42” Class: 900

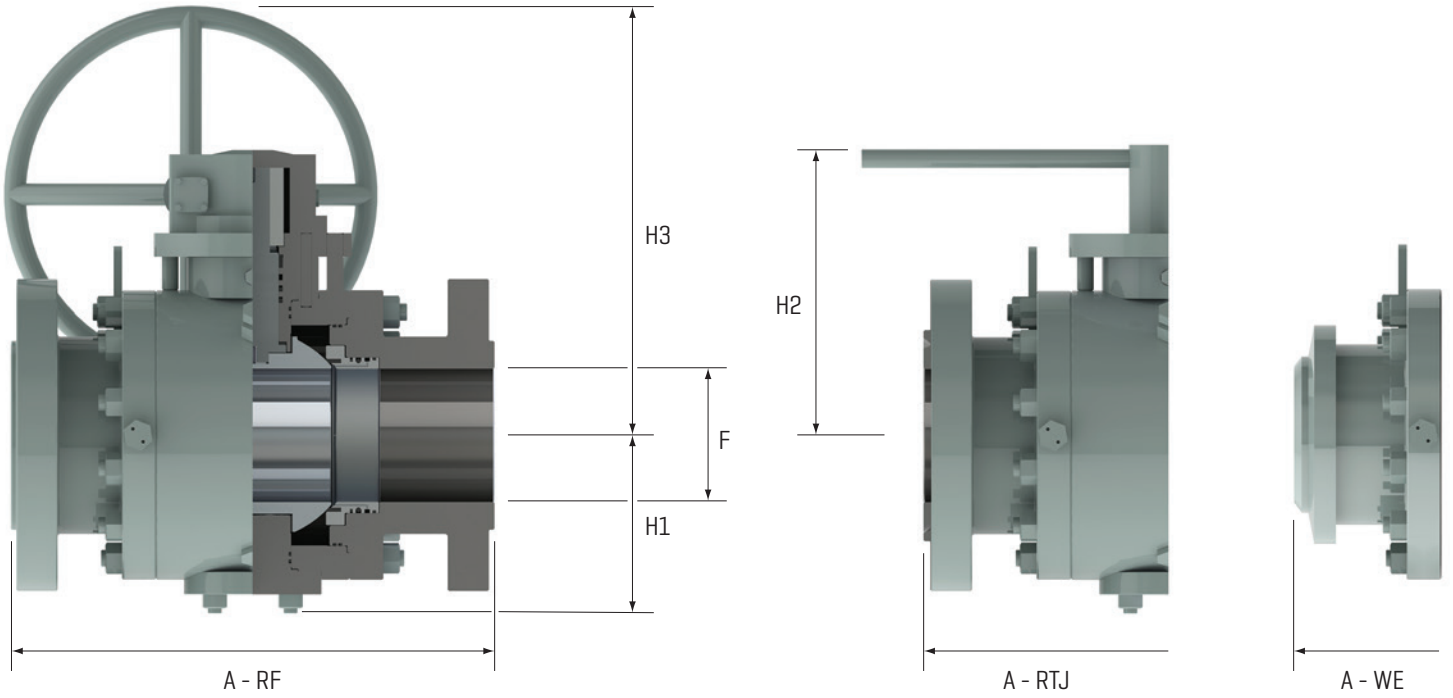


CLASS 900	Size		Bore	End-to-End			Body Dimensions			Trunnion		FLG Weights LBS/KG	BW Weights LBS/KG
			F	A - RF	A - RTJ	A - WE	H1	H2	H3	EXT	INT		
	IN	3 x 2*	2.00	15.00	15.125	15.00	5.22	8.06	11.64	●		138.6	107.8
	MM	80 x 50	51	381	384	381	133	205	296			63	49
	IN	4 x 3*	3.00	18.00	18.125	18.00	6.34	10.25	13.84	●		217.8	173.8
	MM	100 x 80	76	457	460	457	161	260	352			99	79
	IN	6 x 4	4.00	24.00	24.125	24.00	7.28	11.12	14.70	●		437.8	347.6
	MM	150 x 100	102	610	613	610	185	283	373			199	158
	IN	8 x 6	6.00	29.00	29.125	29.00	9.47	14.07	17.65	●		897.6	717.2
	MM	200 x 150	152	737	740	737	241	357	448			408	326
	IN	10 x 8	8.00	33.00	33.125	33.00	11.16	16.68	20.26	●		1595	1276
	MM	250 x 200	203	838	841	838	283	424	515			725	580
	IN	12 x 10	10.00	38.00	38.125	38.00	13.23	18.62	22.94	●		2295	1846
	MM	300 x 250	254	965	968	965	336	473	583			1043	839
	IN	14 x 12	12.00	40.50	40.875	40.50	14.98	20.77	25.00		●	3392	2743
	MM	350 x 300	305	1029	1038	1029	380	528	635			1542	1247
	IN	16 x 14	12.75	44.50	44.875	44.50	16.60	23.10	27.41		●	3991	3192
	MM	400 x 350	337	1130	1140	1130	422	587	696			1814	1451
	IN	18 x 16	14.75	48.00	48.50	48.00	18.39	24.83	30.01		●	5438	4239
	MM	450 x 400	387	1219	1231	1219	467	631	763			2472	1927
	IN	20 x 18	16.75	52.00	52.50	52.00	18.75	26.53	31.75		●	7031	5636
	MM	500 x 450	438	1321	1334	1321	509	674	807			3878	3107
	IN	24 x 20	18.625	61.00	61.75	61.00	21.90	29.58	35.86		●	11436	9130
	MM	600 x 500	489	1549	1569	1549	556	751	911			5198	4150
	IN	30 X 24	22.48	74.00	74.88	74.00	27.08	/	32.87		●	18232	16773
	MM	750 x 600	571	1880	1902	1880	688	/	835			8270	7608
	IN	36 X 30	28.11	90.00	91.14	90.00	35.43	/	46.1		●	44423	40426
	MM	900 x750	714	2286	2315	2286	900	/	1171			20150	18337
	IN	42 X 36	33.74	105.00	106.14	105.00	41.73	/	48.03		●	52073	47388
	MM	1050 x 900	857	2667	2696	2667	1060	/	1220			23620	21495

* = Lever operated

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.

3-Piece Trunnion Ball Valves Full Port - API 6D
Size: 1” - 24” Class: 1500

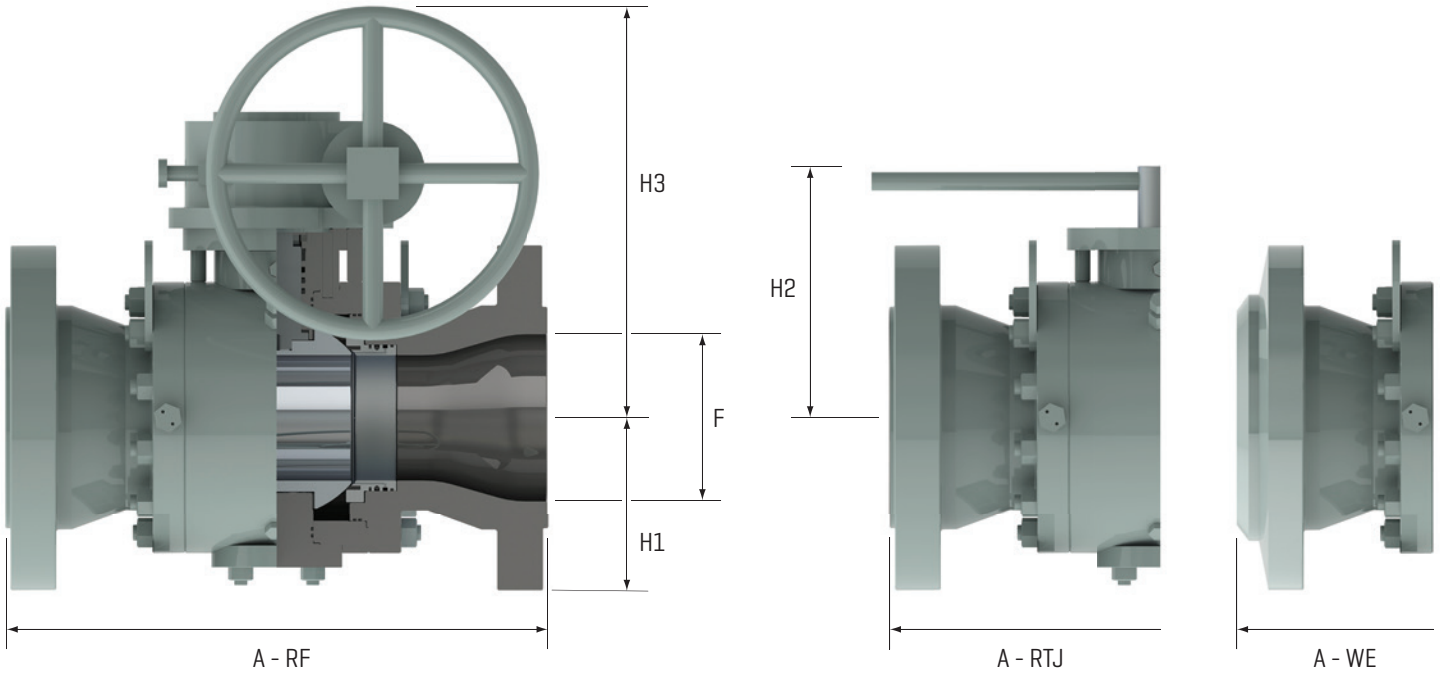


	Size		Bore	End-to-End			Body Dimensions			Trunnion		FLG Weights LBS/KG	BW Weights LBS/KG
			F	A - RF	A - RTJ	A - WE	H1	H2	H3	EXT	INT		
CLASS 1500	IN	1 x 1*	1.00	/	10.0	/	3.15	5.90	7.64	●		70	/
	MM	25 x 25	25	/	254	/	80	150	194			26	/
	IN	1.5 x 1.5*	1.50	/	12	/	4	7.56	7.91	●		107	/
	MM	38 x 38	38	/	305	/	100	192	201			40	/
	IN	2 x 2*	2.00	14.50	14.625	14.49	4.44	6.50	8.90	●		119	95
	MM	50 x 50	51	368	371	368	113	265	226			54	43
	IN	3 x 3*	3.00	18.50	18.625	18.50	5.56	8.69	11.09	●		240	185
	MM	80 x 80	76	470	473	470	141	221	282			109	84
	IN	4 x 4	4.00	21.50	21.625	21.50	6.50	9.56	11.96	●		420	280
	MM	100 x 100	102	546	549	546	165	243	304			191	127
	IN	6 x 6	5.75	27.75	28.00	27.75	8.69	12.19	14.59		●	1190	900
	MM	150 x 150	152	705	711	705	221	310	371			541	409
	IN	8 x 8	8.00	32.75	33.125	32.75	10.38	14.80	17.20		●	1936	1355
	MM	200 x 200	203	832	841	832	264	376	437			880	616
	IN	10 x 10	10.00	39.00	39.375	39.02	12.13	16.63	19.78		●	3420	2394
	MM	250 x 250	254	991	1000	991	308	422	502			1555	1088
	IN	12 x 12	12.00	44.50	45.125	44.50	13.88	18.69	21.84		●	5120	3500
	MM	300 x 300	305	1130	1146	1130	353	475	555			2327	682
	IN	14 x 14	13.25	49.50	50.25	49.50	15.50	21.00	24.15		●	6259	4310
	MM	350 x 350	337	1257	1276	1257	394	533	613			2845	1959
	IN	16 x 16	15.25	54.50	55.375	54.50	17.19	22.75	26.75		●	9210	7668
	MM	400 x 400	387	1384	1407	1384	437	578	680			4186	3485
	IN	18 x 18	17.25	60.50	61.4	60.50	18.75	25.75	29.80		●	14260	11420
	MM	450 x 450	438	1537	1559	1537	467	654	757			6482	5191
	IN	20 x 20	19.25	65.50	66.375	65.50	20.50	27.05	32.50		●	20550	17467
	MM	500 x 500	489	1664	1686	1664	521	687	826			9341	7940
	IN	24 x 24	23.25	76.50	77.625	76.50	24.38	32.38	36.67		●	27590	23450
	MM	600 x 600	591	1943	1972	1943	619	823	931			12540	10660

***** = Lever operated

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.

3-Piece Trunnion Ball Valves Reduced Port - API 6D
Size: 3” - 24” Class: 1500

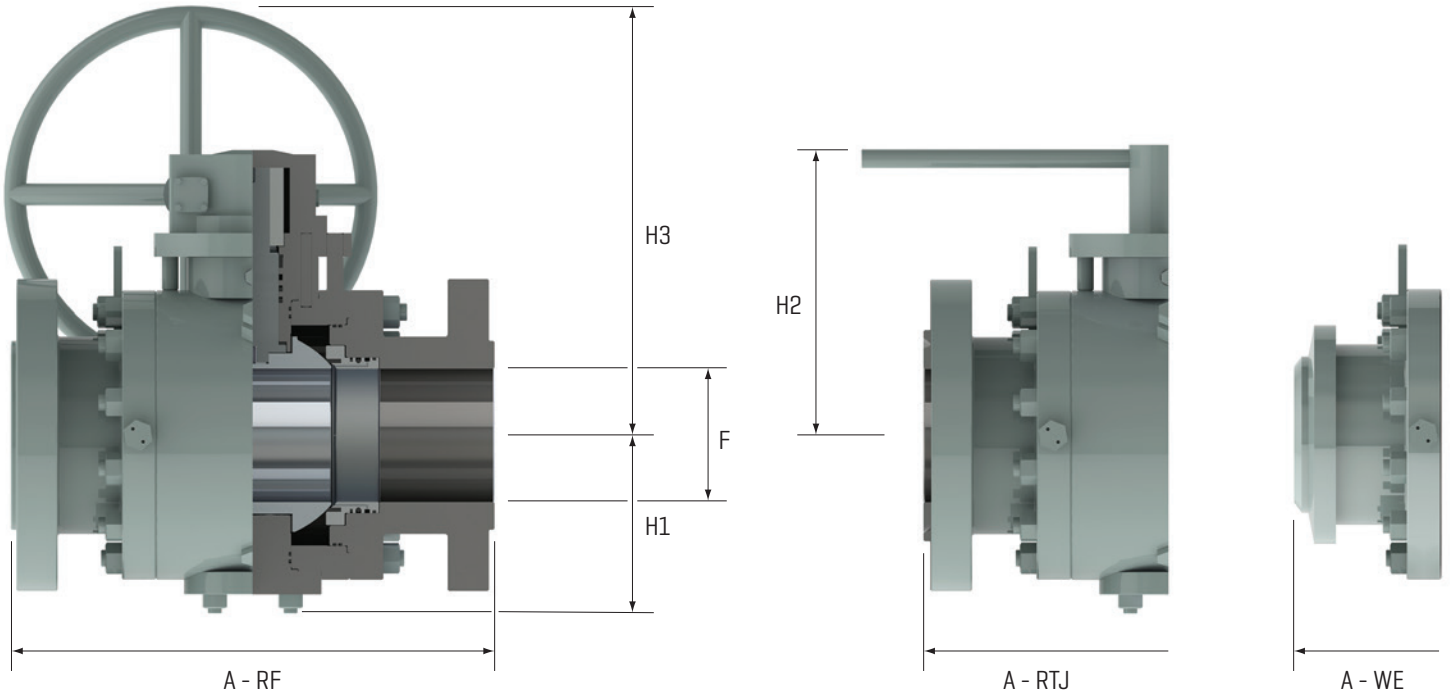


	Size		Bore	End-to-End			Body Dimensions			Trunnion		FLG Weights LBS/KG	BW Weights LBS/KG
			F	A - RF	A - RTJ	A - WE	H1	H2	H3	EXT	INT		
CLASS 1500	IN	3 x 2*	2.00	18.50	18.625	18.50	5.22	7.28	9.68	●		170	155
	MM	80 x 50	51	470	473	470	133	185	246			77	71
	IN	4 x 3	3.00	21.50	21.625	21.50	6.34	9.47	11.87	●		320	265
	MM	100 x 80	76	546	549	546	161	241	301			145	120
	IN	6 x 4	4.00	27.75	28.00	27.75	7.28	10.34	12.74		●	650	540
	MM	150 x 100	102	705	711	705	185	263	324			295	245
	IN	8 x 6	6.00	32.75	33.125	32.75	9.47	13.29	15.59		●	1450	980
	MM	200 x 150	152	832	841	832	241	338	396			659	445
	IN	10 x 8	8.00	39.00	39.375	39.00	11.16	15.90	18.30		●	2380	1666
	MM	250 x 200	203	991	1000	991	283	404	465			1082	757
	IN	12 x 10	10.00	44.50	45.125	44.50	13.23	17.84	20.98		●	4070	2849
	MM	300 x 250	254	1130	1146	1130	336	453	533			1850	1295
	IN	14 x 12	12.00	49.50	50.25	49.50	14.98	20.00	23.04		●	5741	4020
	MM	350 x 300	305	1257	1276	1257	381	508	585			2606	1827
	IN	16 x 14	13.25	54.50	55.375	54.50	16.60	22.30	25.45		●	6678	5640
	MM	400 x 350	337	1384	1407	1384	422	566	646			2845	1959
	IN	18 x 16	15.25	60.50	61.375	60.50	18.39	24.05	28.05		●	12180	9740
	MM	450 x 400	387	1537	1559	1219	467	611	712			5536	4427
	IN	20 x 18	17.25	65.50	66.375	65.50	20.05	27.05	31.10		●	17360	14800
	MM	500 x 450	438	1664	1686	1321	509	687	790			7891	6727
	IN	24 x 20	19.25	76.50	77.625	76.50	21.90	28.80	33.90		●	23820	19120
	MM	600 x 500	489	1943	1972	1943	556	732	861			10830	8690

***** = Lever operated

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.

3-Piece Trunnion Ball Valves Full Port - API 6D
Size: 1” - 12” Class: 2500

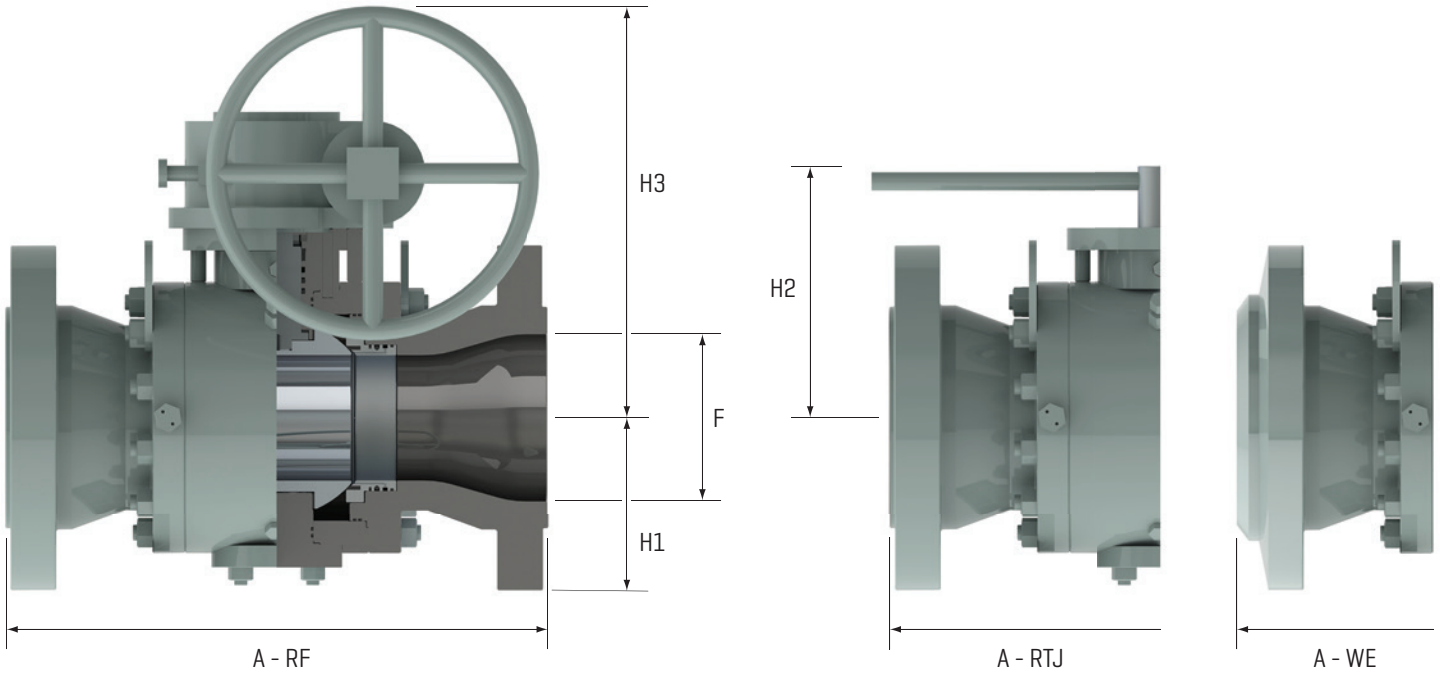


	Size		Bore	End-to-End			Body Dimensions			Trunnion		FLG Weights LBS/KG	BW Weights LBS/KG
			F	A - RF	A - RTJ	A - WE	H1	H2	H3	EXT	INT		
CLASS 2500	IN	1 x 1*	1.00	/	14.0	/	3.78	7.56	/	●		97	/
	MM	25 x 25	25	/	356	/	96	192	/			36	/
	IN	1.5 x 1.5*	1.50	/	15.24	/	4.30	8.15	/	●		130	/
	MM	38 x 38	38	/	387	/	109	209	/			48	/
	IN	2 x 2*	2.00	17.75	17.875	17.75	4.44	7.28	10.90	●		225	216
	MM	50 x 50	51	451	454	451	113	185	277			115	98
	IN	3 x 3*	3.00	22.75	23.00	22.75	5.56	9.47	13.05	●		440	374
	MM	80 x 80	76	578	584	578	141	241	331			200	170
	IN	4 x 4	4.00	26.50	26.875	26.50	6.50	10.34	13.92	●		825	701
	MM	100 x 100	102	673	682	673	165	263	354			370	314
	IN	6 x 6	6.00	36.00	36.50	36.00	8.69	12.97	16.55		●	1790	1521
	MM	150 x 150	152	914	927	914	220	329	420			800	680
	IN	8 x 8	8.00	40.25	40.875	40.25	10.38	15.58	19.10		●	3500	2975
	MM	200 x 200	203	1022	1038	1022	264	396	485			1600	1360
	IN	10 x 10	10.00	50.00	50.875	50.00	12.13	17.41	21.74		●	5400	4590
	MM	250 x 250	254	1270	1292	1270	308	442	552			2500	2940
	IN	12 x 12	12.00	56.00	56.875	56.00	13.88	19.47	23.80		●	8300	7055
	MM	300 x 300	305	1422	1444	1422	353	495	605			4000	3400

***** = Lever operated

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.

3-Piece Trunnion Ball Valves Reduced Port - API 6D
Size: 3” - 12” Class: 2500

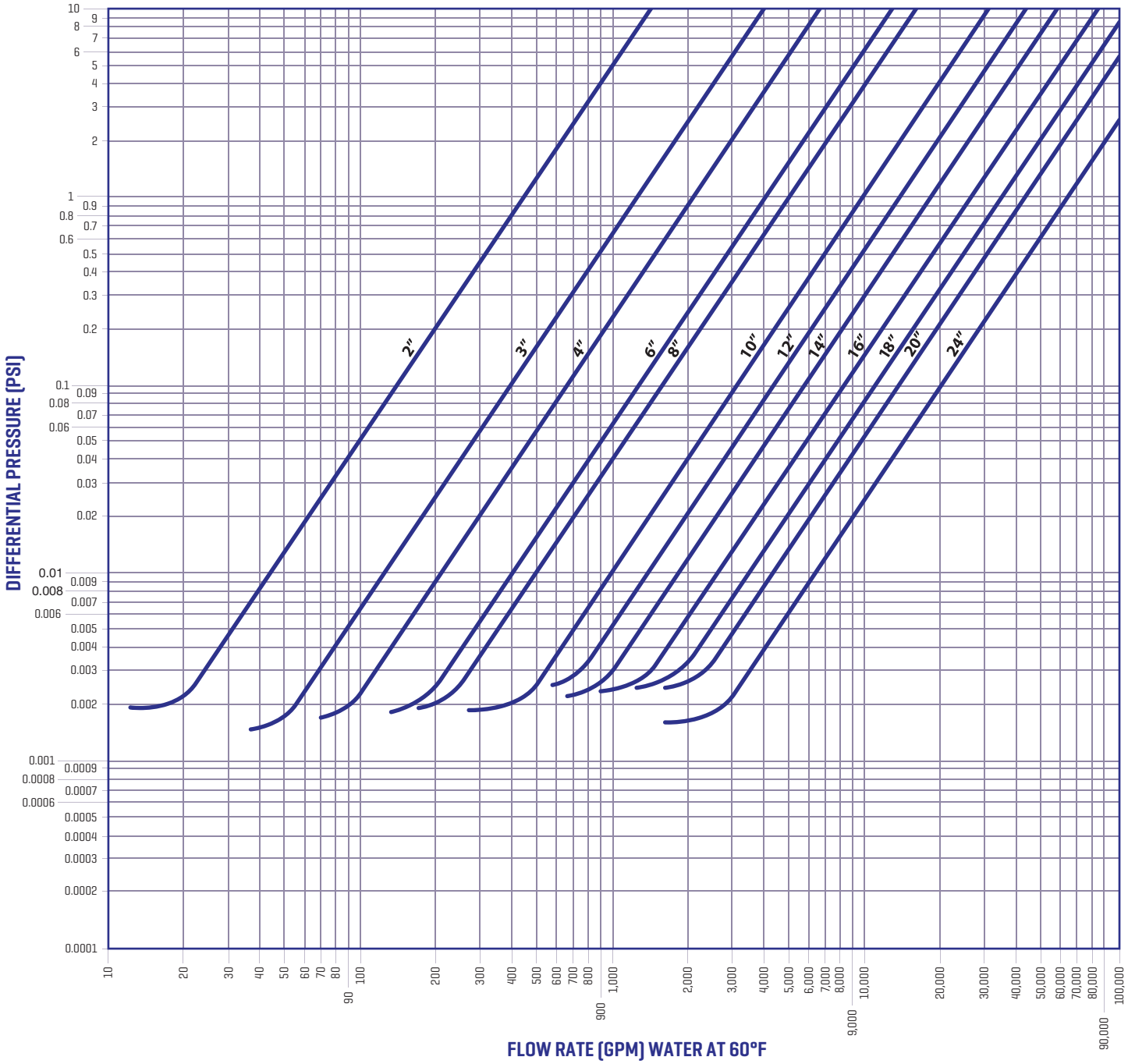


CLASS 2500	Size		Bore	End-to-End			Body Dimensions			Trunnion		FLG Weights LBS/KG	BW Weights LBS/KG
			F	A - RF	A - RTJ	A - WE	H1	H2	H3	EXT	INT		
	IN	3 x 2*	2.00	22.75	23.00	22.75	5.22	8.06	11.64	●		305	260
	MM	80 x 50	50	51	578	584	578	133	205			296	120
	IN	4 x 3	3.00	26.50	26.875	26.50	6.34	10.25	13.84	●		620	527
	MM	100 x 80	80	76	673	683	673	161	260			352	240
	IN	6 x 4	4.00	36.00	36.50	36.00	7.28	11.12	14.70		●	1270	1080
	MM	150 x 100	102	914	927	914	185	282	373			373	490
	IN	8 x 6	6.00	40.25	40.875	40.25	9.47	14.07	17.65		●	2630	2235
	MM	200 x 150	152	1022	1038	1022	241	357	448			1195	995
	IN	10 x 8	8.00	50.00	50.875	50.00	11.16	16.68	20.26		●	4750	4030
	MM	250 x 200	203	1270	1292	1270	283	424	515			2160	1830
	IN	12 x 10	10.00	56.00	56.875	56.00	13.23	18.62	22.94		●	6620	5620
	MM	300 x 250	254	1422	1445	1422	336	473	583			3010	2550

***** = Lever operated

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.

Liquid: Pressure Loss Curves for Trunnion Ball Valves



Flow Coefficient for Fully Open Valves	
2	447
3	1,264
4	2,121
6	4,082
8	5,000
10	10,000
12	14,000
14	18,584
16	26,516
18	35,172
20	44,008
24	64,616

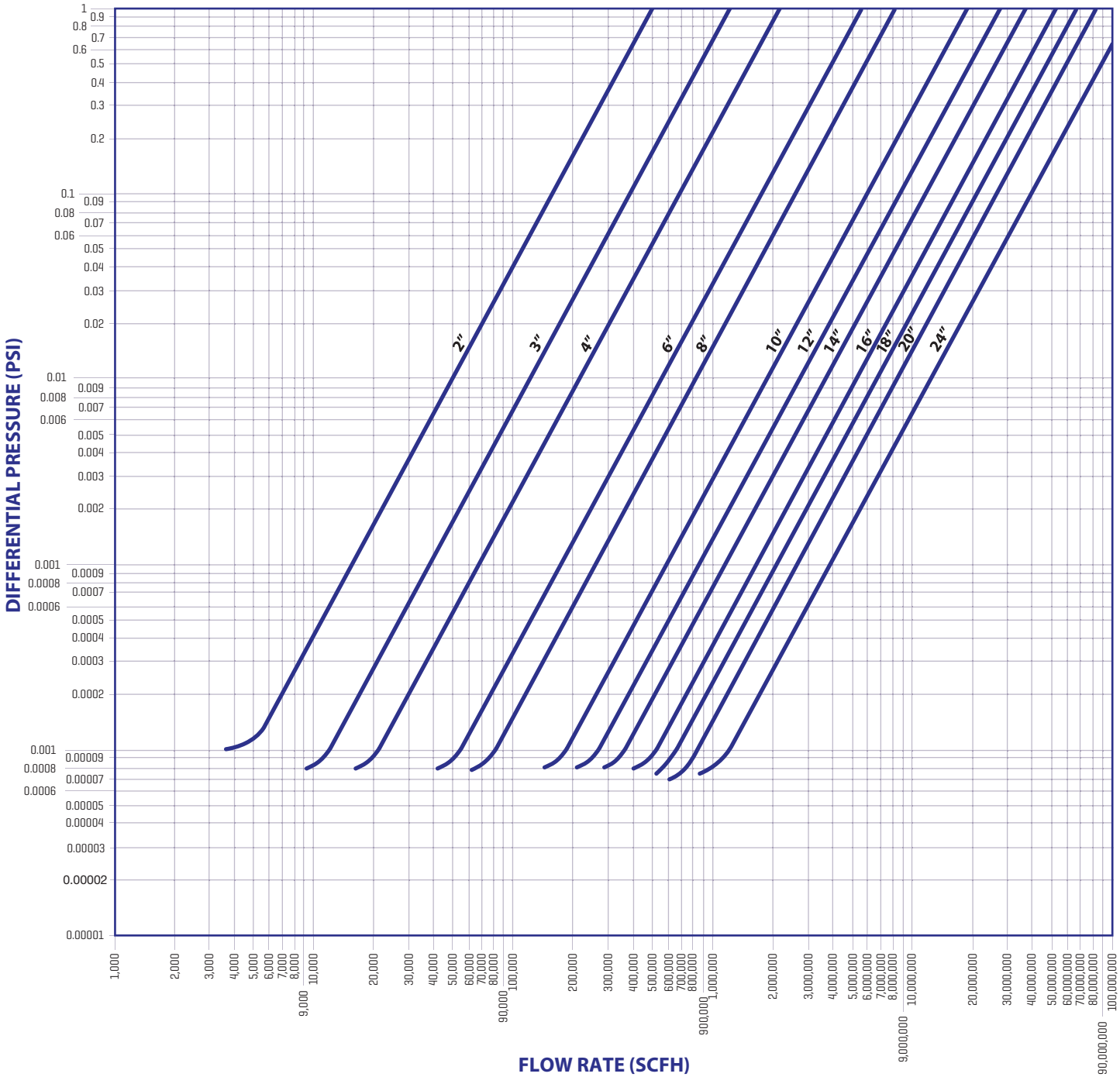
The equations listed are the basis for the above graph. The formulas can be used to find the actual flow coefficient for a given condition of flow.

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

Liquid (Incompressible Flow)

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

Gas: Pressure Loss Curves for Trunnion Ball Valves



Flow Coefficient for Fully Open Valves	
2	227
3	561
4	994
6	2,522
8	3,803
10	8,594
12	12,549
14	16,778
16	24,000
18	30,525
20	38,668
24	56,481

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

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

Gas (Compressible Flow)

$$C_v = \frac{Q}{963}\sqrt{\frac{GT}{P_1^2 - P_2^2}} \qquad Q = C_v 963 \sqrt{\frac{P_1^2 - P_2^2}{GT}}$$

Operating Torques

The operating torques are in inch pounds and are calculated based on Devlon seats and clean liquid service (no safety factor).

Torque Mulitpliers		Liquid Slurry 1.8		Lubtristic Fluids 0.8		Gas Clean Dry 1.2
Size		Class	Break to Open	Break to Close	Run Torque	Mast
IN / MM	2 / 50	150	540	432	270	1080
		300	772	618	386	1544
		600	1210	968	605	2420
		900	2652	2122	1326	5304
		1500	2652	2122	1326	5304
		2500	4501	3601	2251	9002
IN / MM	3 / 80	150	688	550	344	1376
		300	1122	898	561	2244
		600	2185	1748	1093	4370
		900	3228	2582	1614	6456
		1500	5649	4519	2825	11298
		2500	8607	6886	4304	17214
IN / MM	4 / 100	150	1110	888	555	2220
		300	1989	1591	995	3978
		600	4572	3658	2286	9144
		900	6422	5138	3211	12844
		1500	10128	8102	5064	20256
		2500	15300	12240	7650	30600
IN / MM	6 / 150	150	4071	3257	2036	8142
		300	5620	4656	2910	11640
		600	9660	7728	4830	19320
		900	15780	12624	7890	31560
		1500	25680	20544	12840	51360
		2500	43707	34966	21854	87414
IN / MM	8 / 200	150	7070	5656	3535	14140
		300	12772	10218	6386	25544
		600	19584	15667	9792	39168
		900	31824	25459	15912	63648
		1500	48720	38976	34360	97440
		2500	76176	60941	38088	152352
IN / MM	10 / 250	150	10504	8403	5252	21008
		300	19488	15590	9744	38976
		600	30540	24432	15270	61080
		900	44400	35520	22200	88800
		1500	74400	59520	3720	14880
		2500	125616	100493	62808	251232
IN / MM	12 / 300	150	13506	10805	6753	27012
		300	22344	17875	11172	44688
		600	51312	41050	25656	102624
		900	79716	63773	39858	159432
		1500	106284	85027	53142	212568
		2500	211884	169507	105942	423768
IN / MM	14 / 350	150	17373	13989	8687	34746
		300	28332	22666	14166	56664
		600	57456	45965	28728	114912
		900	97428	77942	48714	194856
		1500	144948	115958	72474	289896
IN / MM	16 / 400	150	25727	20582	12864	51454
		300	46860	37488	23430	93720
		600	78828	63062	39414	157656
		900	138804	111043	69402	277608
		1500	197472	157978	98736	394944
IN / MM	18 / 450	150	33543	26834	16772	67086
		300	54624	43699	27312	109248
		600	119568	95654	59784	239136
		900	194017	155214	97009	388034
IN / MM	20 / 500	150	42516	34013	21258	85032
		300	71186	56949	35593	142372
		600	158906	127125	79453	317812
		900	235887	188710	117944	471774
IN / MM	24 / 600	150	61992	49594	30996	123984
		300	109970	87976	54985	219940
		600	234886	187909	117443	469772
		900	365157	282126	182579	730314

Torques for larger sizes available upon request.

Pressure Temperature Ratings - ASME B16.34

Note: Pressures in PSI

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

Pressure Temperature Ratings - ASME B16.34

Note: Pressures in PSI

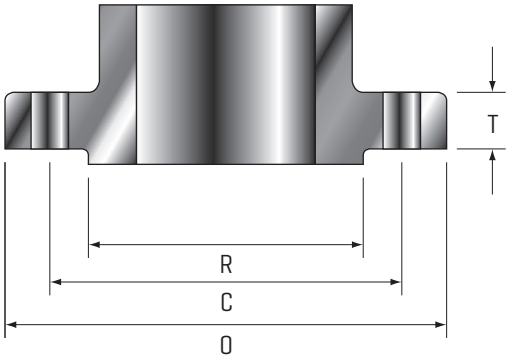
	Temp. F	A105	WCB	LF2	WCC	LCB	WC6	LCC	C5	C12	C12A	316	CF8M	F51	F53
600	-20 to 100	1480	1480	1480	1500	1395	1500	1500	1500	1500	1500	1440	1440	1500	1500
	200	1360	1360	1360	1500	1320	1500	1500	1500	1500	1500	1240	1240	1490	1490
	300	1310	1310	1310	1455	1275	1445	1455	1455	1455	1455	1120	1120	1335	1335
	400	1265	1265	1265	1405	1230	1385	1405	1410	1410	1410	1025	1025	1230	1230
	500	1205	1205	1205	1330	1175	1330	1330	1330	1330	1330	995	995	1160	1160
	600	1135	1135	1135	1210	1105	1210	1210	1210	1210	1210	900	900	1115	1115
	650	1100	1100	1100	1175	1065	1175	1175	1175	1175	1175	885	885	1095	1095
	700	1060	1060	1060	1110	1025	1135	1110	1135	1135	1135	870	870	1085	1085
	750	1015	1015	1015	1015	955	1065	1015	1065	1065	1065	855	855	1065	1065
	800	825	825	825	825	780	1015	825	1015	1015	1015	845	845	/	/
	850	640	640	640	640	595	975	640	975	975	975	835	835	/	/
	900	460	460	460	445	405	900	445	745	900	900	830	830	/	/
	950	275	275	275	275	275	640	275	550	755	775	775	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	/	/
	Temp. F	**A105**	**WCB**	**LF2**	**WCC**	**LCB**	**WC6**	**LCC**	**C5**	**C12**	**C12A**	**316**	**CF8M**	**F51**	**F53**
900	-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	/	/

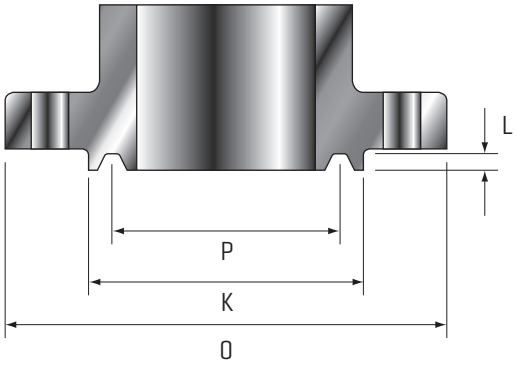
Pressure Temperature Ratings - ASME B16.34

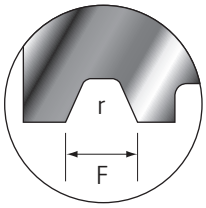
Note: Pressures in PSI

	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



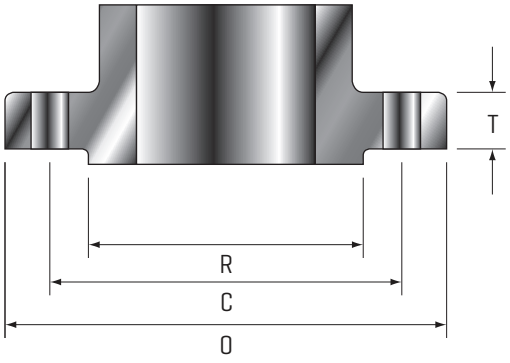


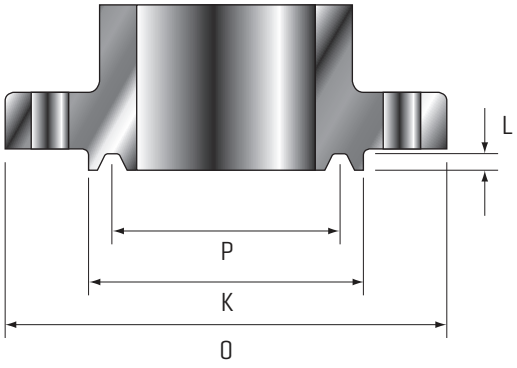


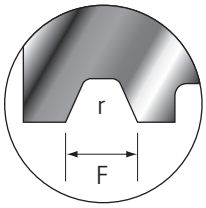
Groove Detail

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

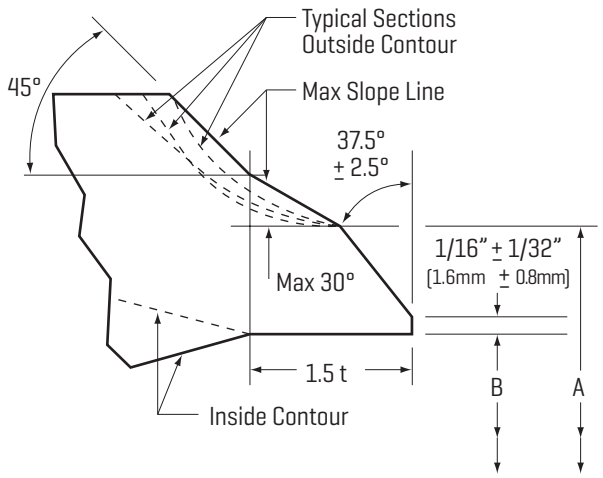
Butt-welding Dimensions - ANSI B16.25

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

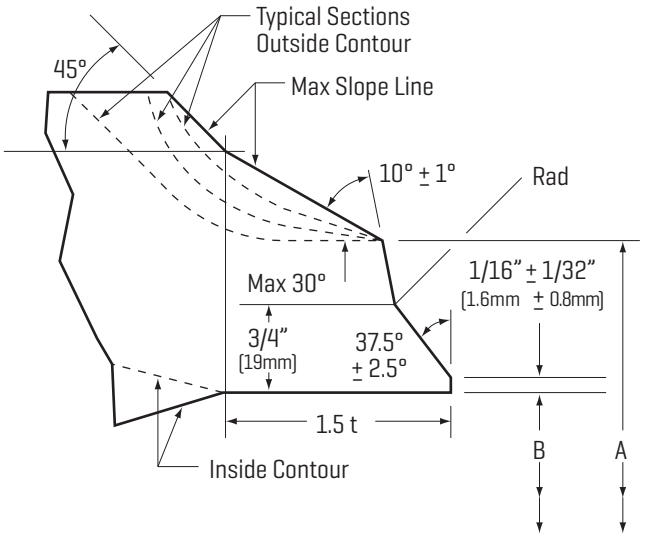
Plain Bevel Butt-welding End for Pipe Wall Thickness is 7/8" (22.23mm) or less.

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



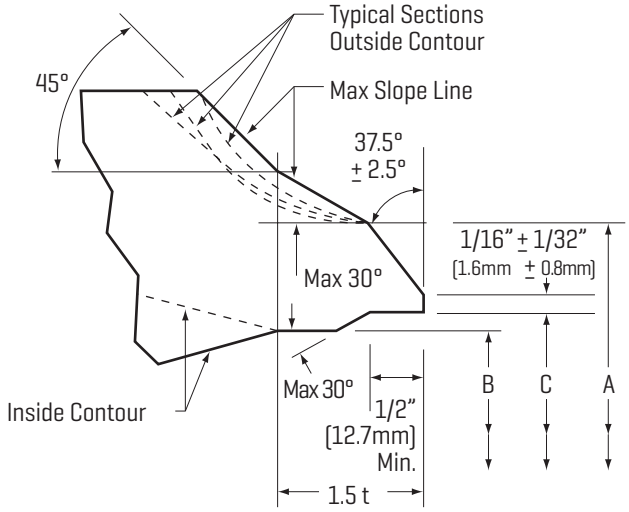
Compound Bevel Butt-welding End for Pipe Wall Thickness Greater than 7/8" (22.23mm).

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



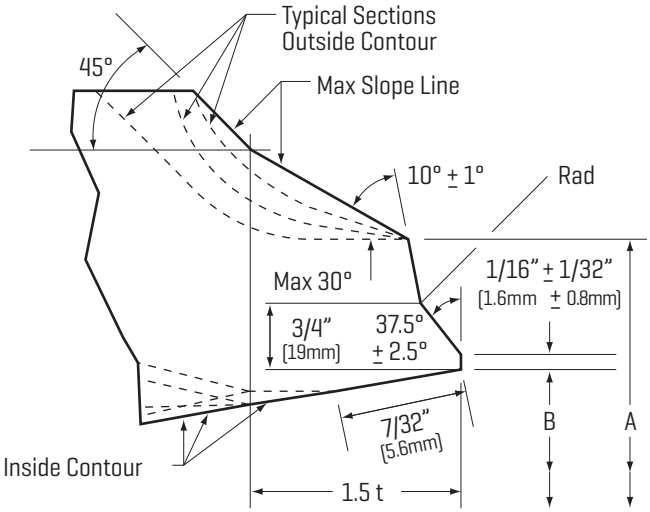
Plain Bevel Butt-welding End for Pipe Wall Thickness is 7/8" (22.23mm) or less.

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.



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.

SALES, PROJECTS, ENGINEERING, MANUFACTURING, & WAREHOUSING
3521 FM 646 Rd. North
Santa Fe, TX 77510
Phone: (281) 482-4728
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Email: sales@scvvalve.com

SCV VALVE

(281) 482-4728 · www.scvvalve.com

Rev: SCVTBV6D - 031819

SCV VALVE
Innovative Valve Solutions®



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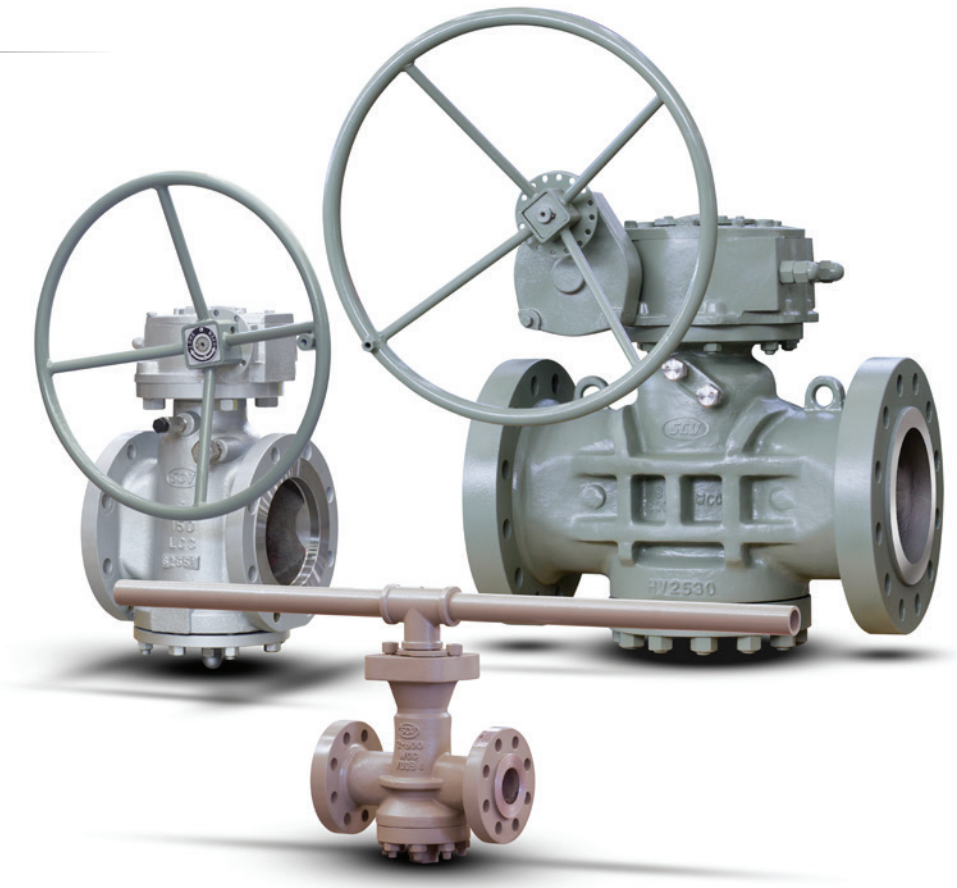




Pressure Balanced Lubricated Plug Valves - API 6D

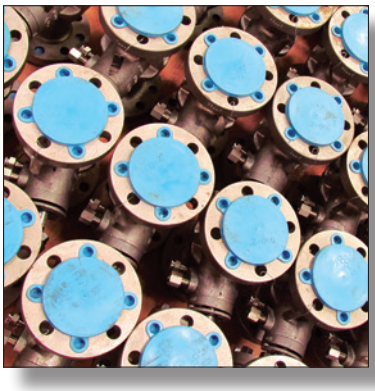
Short Pattern
Regular Pattern
Venturi Pattern

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.®

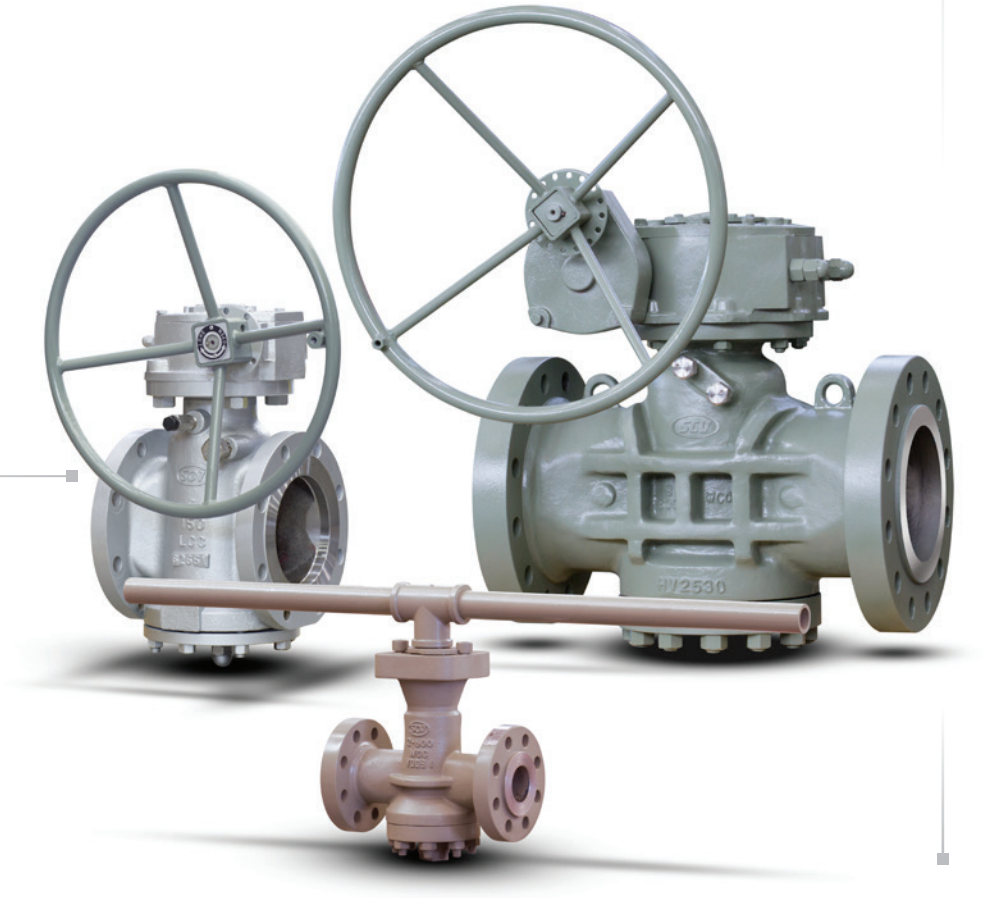
SCV Pressure Balanced Lubricated Plug Valves

[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.

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- ISO 9001:2008
- Canadian Registration Numbers
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Complete Product Line

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

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

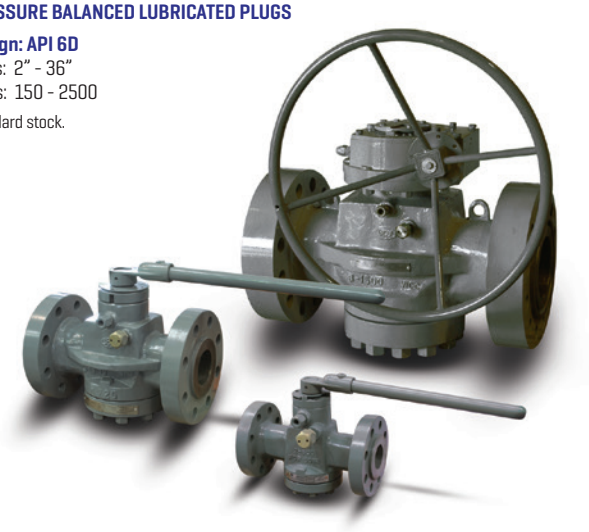
Standard stock.



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: JANUARY 16, 2018
Expiration Date: DECEMBER 6, 2019

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

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, 2016
Expiration Date: DECEMBER 6, 2019

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

American Petroleum Institute

Note: Extension letter availavle on our website.

ISO 9001:2008 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: 12 August 2018
Expiration Date: 15 June 2019
Issue Date: 12 August 2018

Alex Weisselberg, 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. 16855 Northchase Drive, Houston, TX 77060, 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: HPiVS/P1012-055-Q-03
Date of Issue: 28-Jul-2016
Date of Expiry: 24-Jun-2019
Surveillance due Jun 2017

Manufacturer: SCV Valve
- 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: Each valve CE marked

Other Certification Standards Applied: ABSQE ISO 9001 cert 44073 exp. Sep.2018
API 6A, API 6D

Report Reference: HPiVS/P1012-055-3

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 Notified Body number should also be placed on the equipment

Managing Director
Technical Manager

CE
EU Notified Body No. 1521
Company registered in England #7217086
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The Manor House
Hoobery Park, Wallingford
OX10 8BA, United Kingdom

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

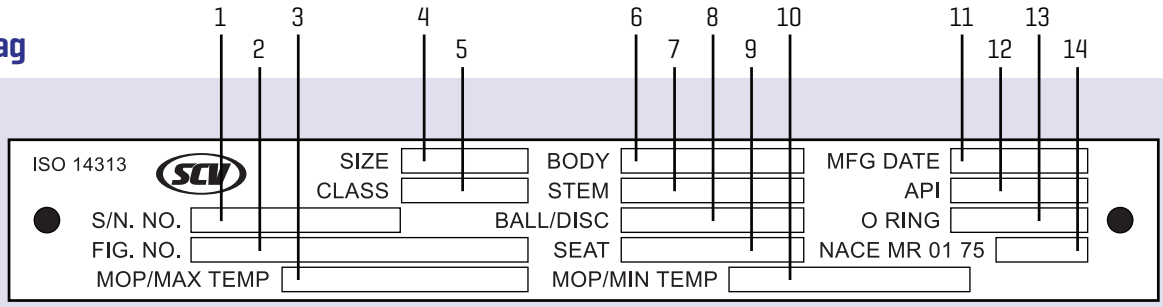
	Figure No. Chart Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Pressure Classes	**Type**	**Size**	**Class**	**Body Conf.**	**Body**	**Obturator**	**End**	**Oper**	**Bore Type**	**Seal**	**Seat.base**	**Seat/Insert**	**Stem**	**Packing**	**Service**
TRUNNION BALL	150, 300, 600	BAL	12	06	B	12	15	R	G	F	H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

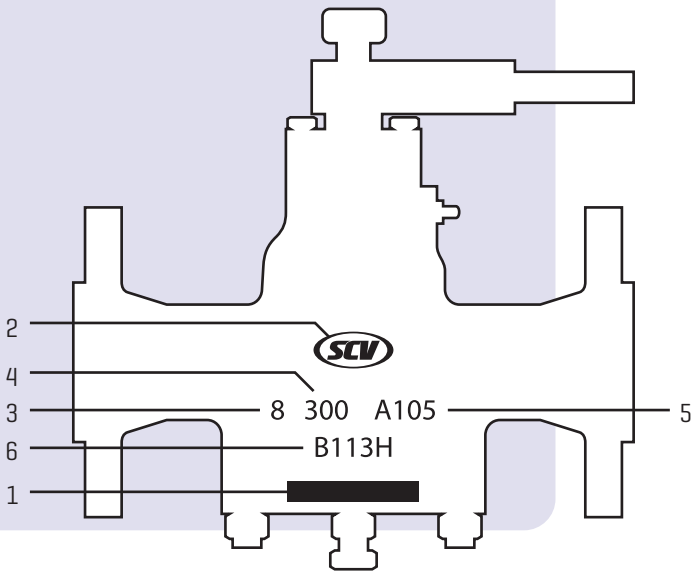
Valve ID Tag



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





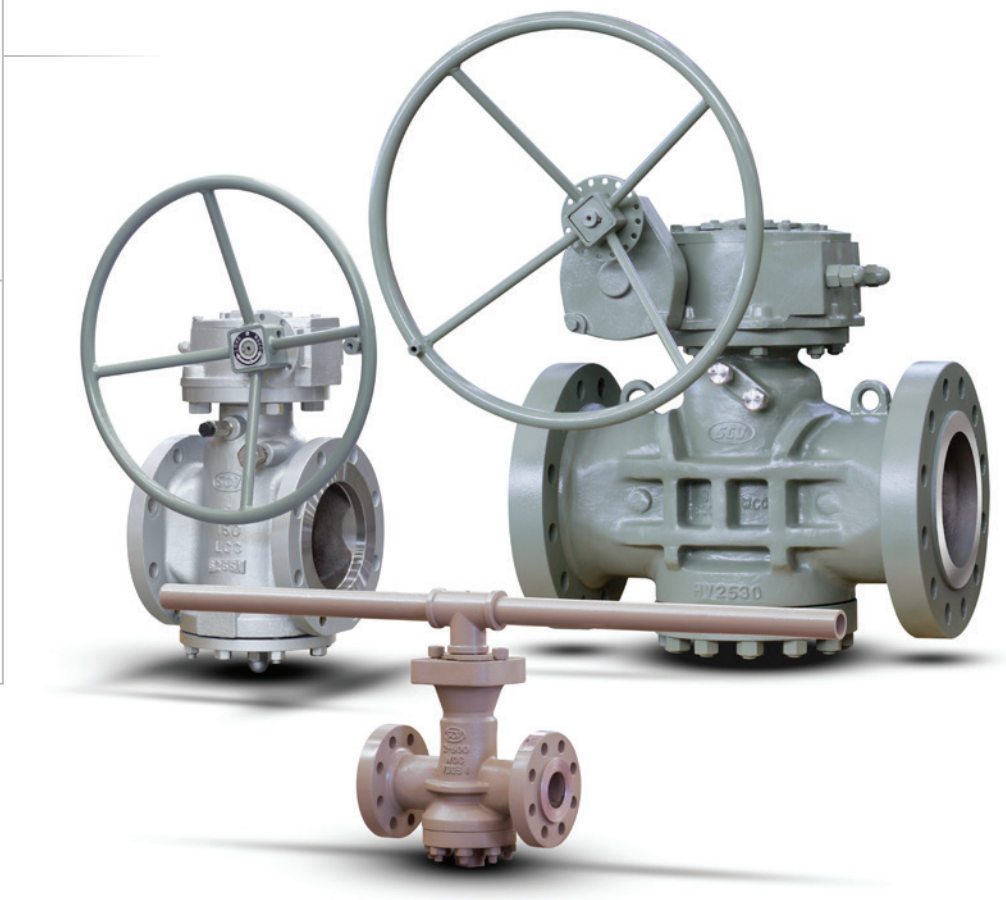




Pressure Balanced Lubricated Plug Valves - API 6D

Class: 150 - 2500/Sizes: 2” - 36”

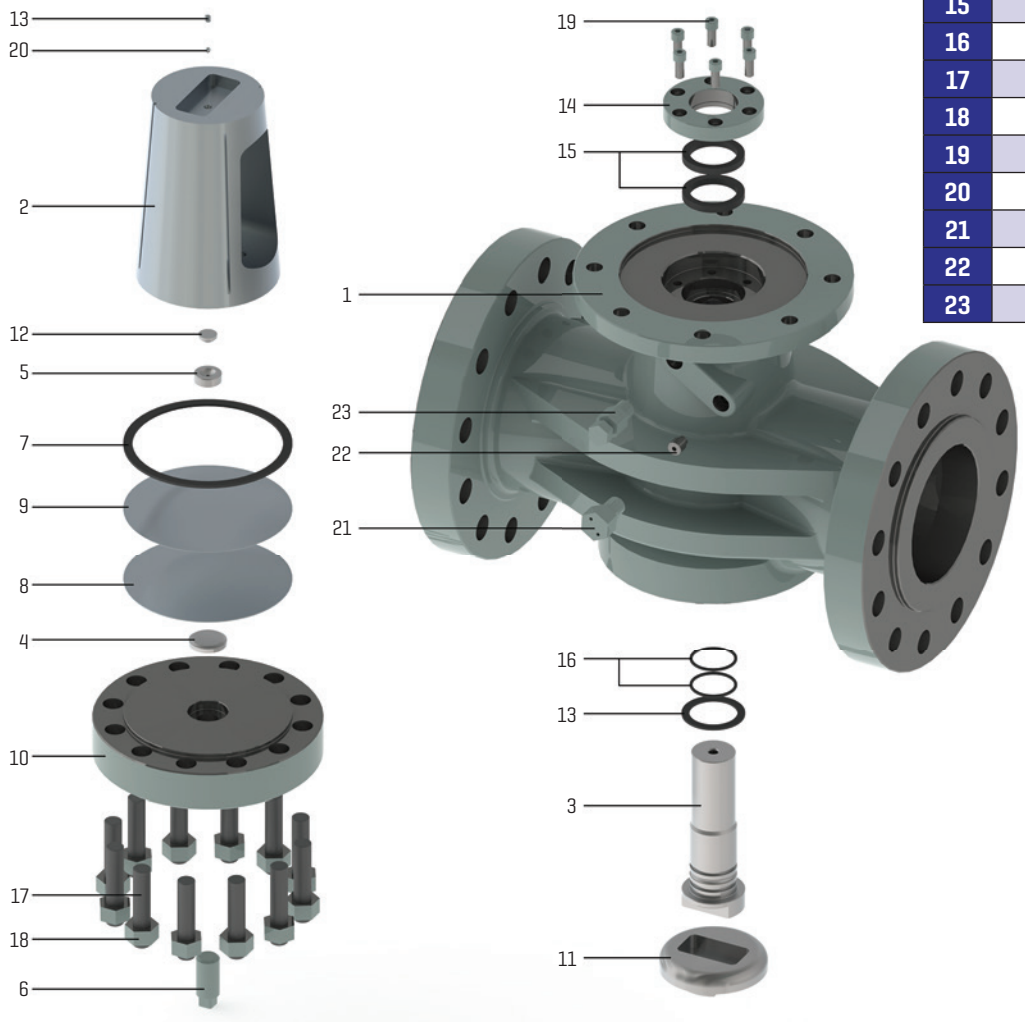
Design and Manufacturing Standards	
Basic Design	API 6D
Wall Thickness	API 6D
Face-to-Face Dimension	API 6D
Flange End Dimension	API 6D
Inspection & Testing	API 6D
Fire Safe Design	API 6FA/BS 6755



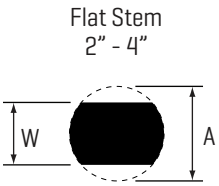
Pressure Balanced Lubricated Plug Valves - API 6D

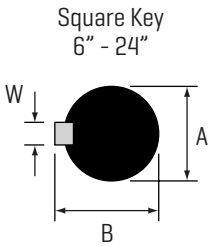
[Expanded View]

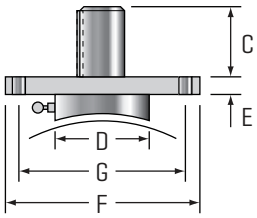
No	Name Of Part
1	Body
2	Plug
3	Stem
4	Adjustment Plate
5	Adjustment Plate Center
6	Adjustment Screw
7	Gasket
8	Gasket Plate A
9	Gasket Plate B
10	Lower Cover Plate
11	Connection Plate
12	Centering Ball
13	Thrust Bearing
14	Gland
15	Packing
16	O-Ring
17	Stud
18	Heavy Hex Nut
19	SHCS
20	Ball
21	Grease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

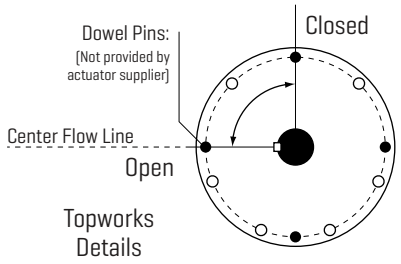


Pressure Balanced Lubricated Plug Valve Mounted Flanges & Stem Torque Information









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

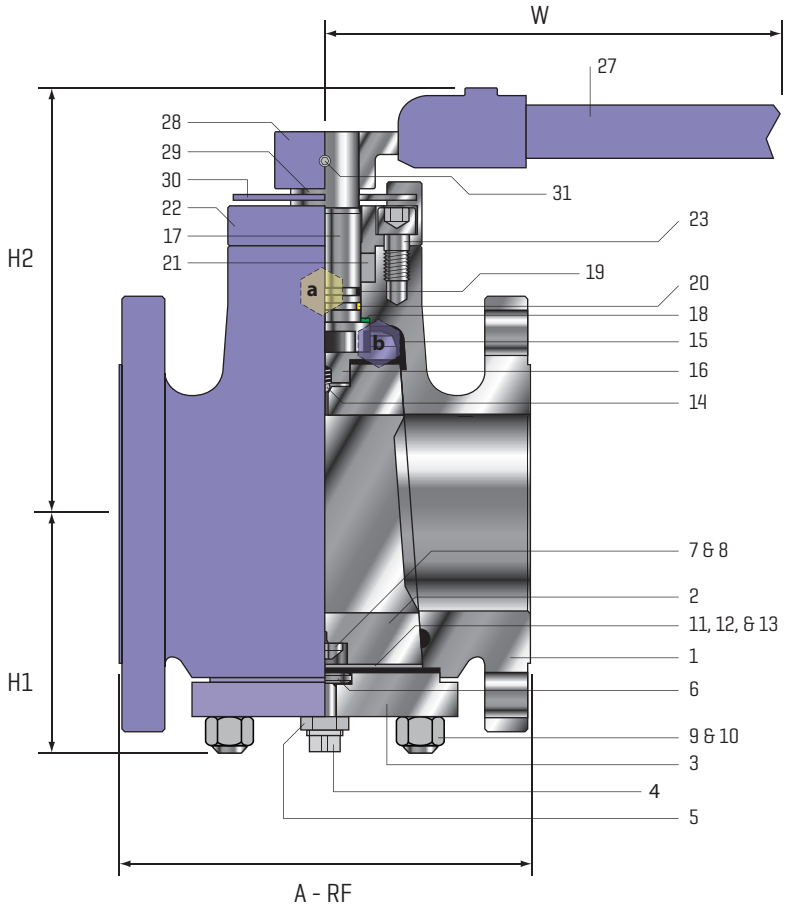
● = Short Pattern

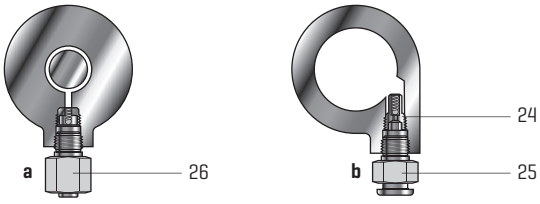
■ = Regular Pattern

▲ = 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

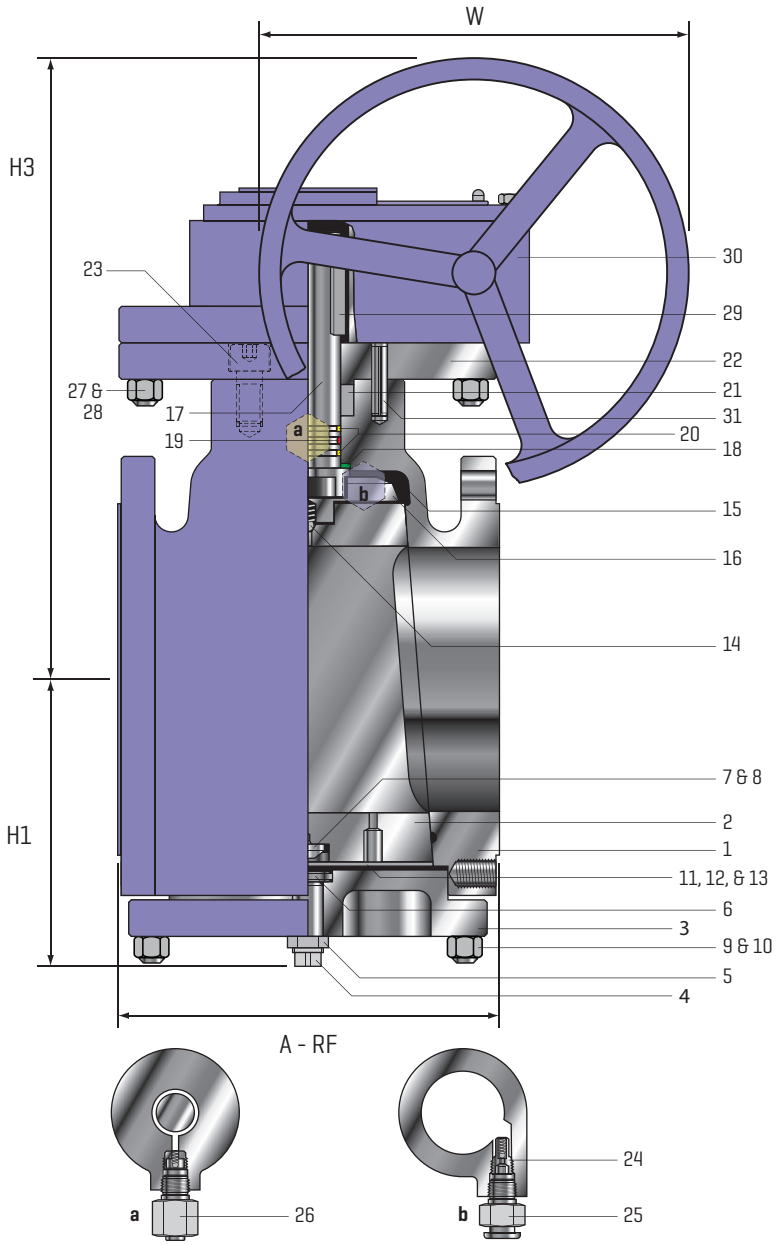




No	Name Of Part	Material
1	Body	A216 WCC
2	Plug	CA15 + Nitriding
3	Bonnet	A105
4	Plug Adjustment Screw	A193 B7M
5	Plug Adjustment Lock Nut	Carbon Steel
6	Lower Pivot Disc	AISI 1035
7	Upper Pivot Disc	AISI 1035
8	Pivot Center	AISI 1035
9	Stud	A193 B7M
10	Nut	A194 2HM
11	Gasket	Flexible Graphite + 304
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

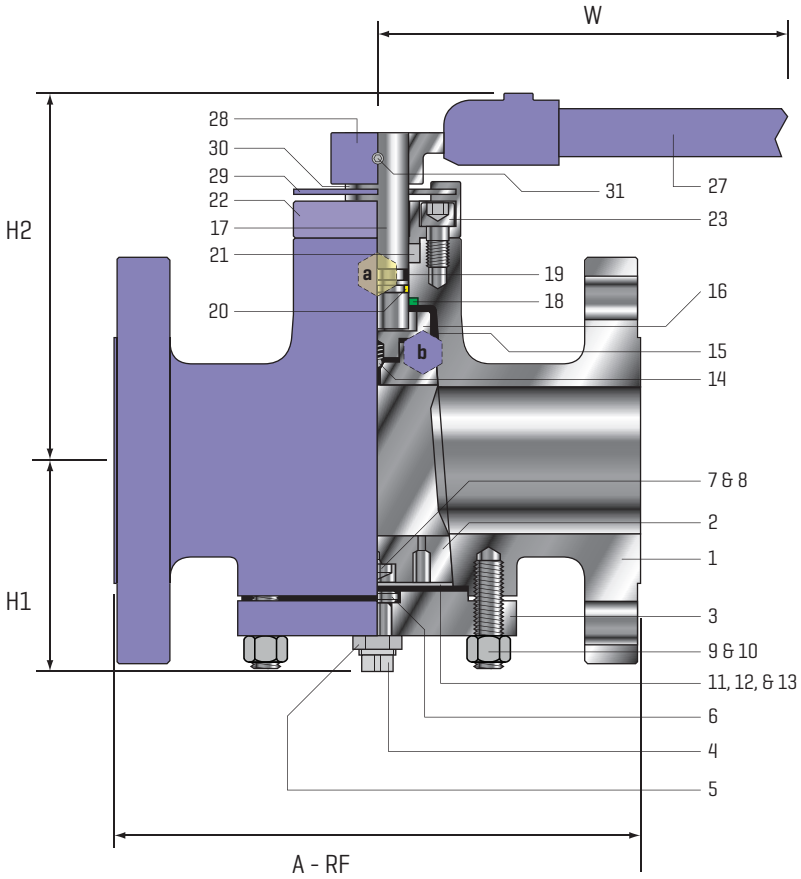
Short Pattern - Pressure Balanced Lubricated Plug Valves
Size: 6” - 12” Class: 150

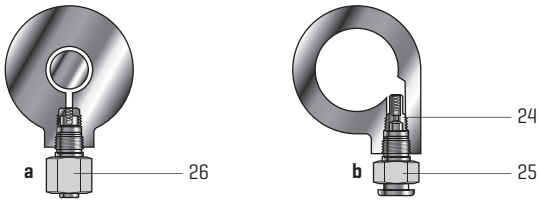


No	Name Of Part	Material
1	Body	A216 WCC
2	Plug	CA15 + Nitriding
3	Bonnet	A105
4	Plug Adjustment Screw	A193 B7M
5	Plug Adjustment Lock Nut	Carbon Steel
6	Lower Pivot Disc	AISI 1035
7	Upper Pivot Disc	AISI 1035
8	Pivot Center	AISI 1035
9	Stud	A193 B7M
10	Nut	A194 2HM
11	Gasket	Flexible Graphite + 304
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

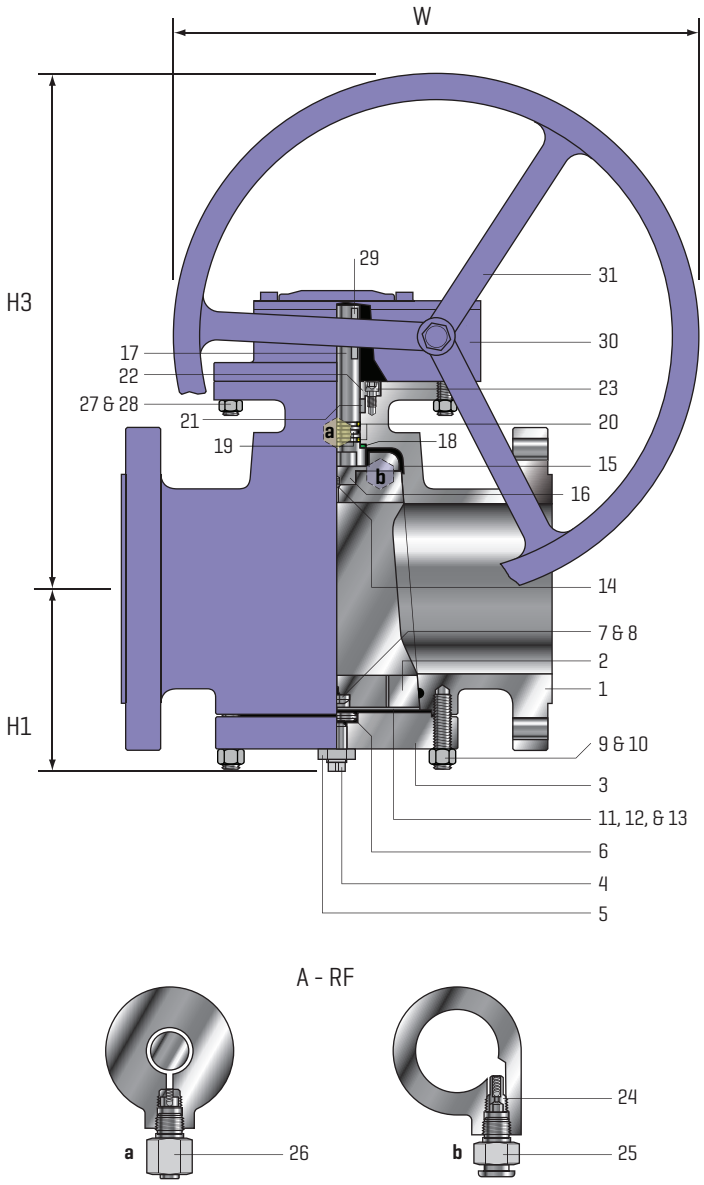




No	Name Of Part	Material
1	Body	A216 WCC
2	Plug	CA15 + Nitriding
3	Bonnet	A105
4	Plug Adjustment Screw	A193 B7M
5	Plug Adjustment Lock Nut	Carbon Steel
6	Lower Pivot Disc	AISI 1035
7	Upper Pivot Disc	AISI 1035
8	Pivot Center	AISI 1035
9	Stud	A193 B7M
10	Nut	A194 2HM
11	Gasket	Flexible Graphite + 304
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

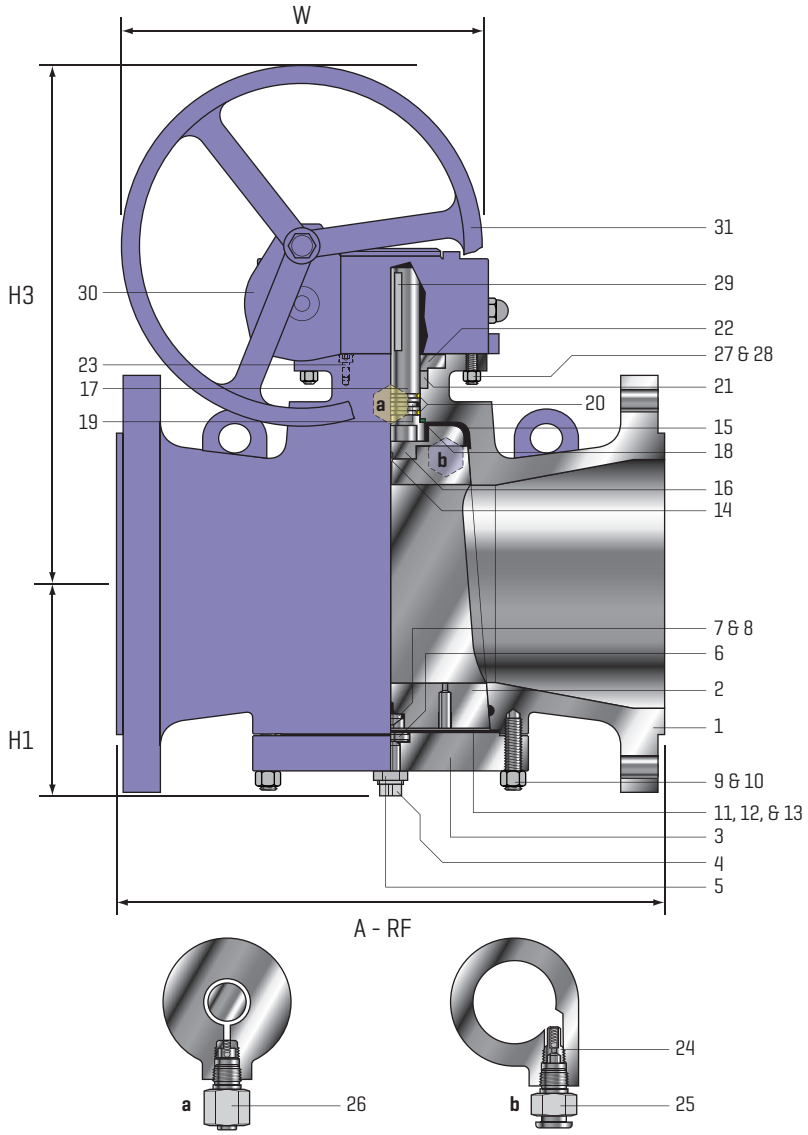
Regular Pattern - Pressure Balanced Lubricated Plug Valves
Size: 6” - 12” Class: 150



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

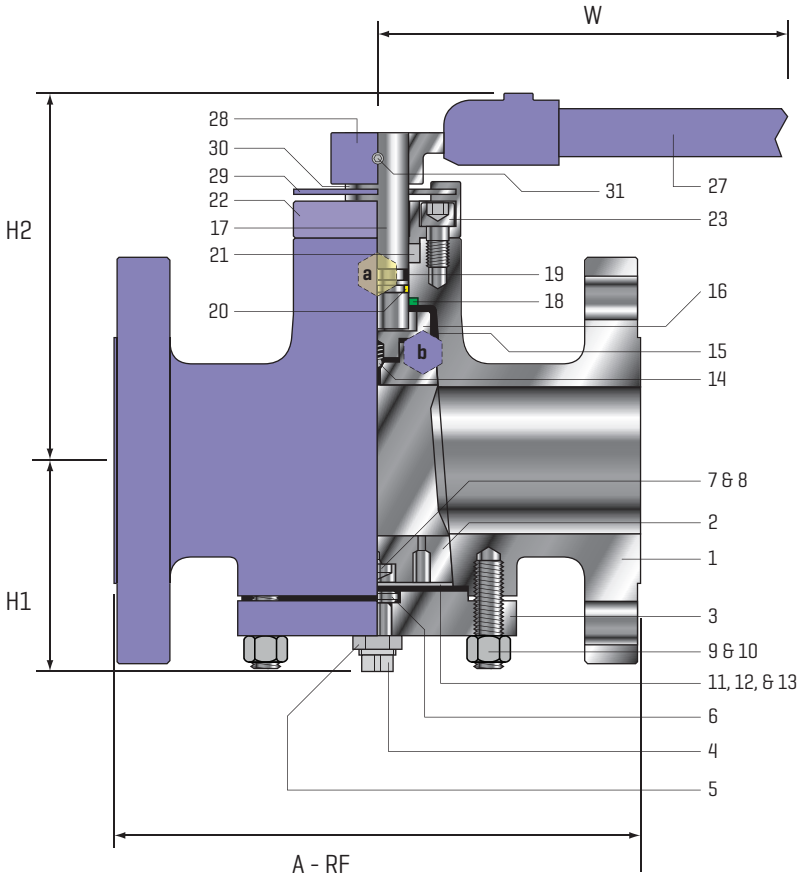
Venturi Pattern - Pressure Balanced Lubricated Plug Valves
Size: 14” - 36” Class: 150

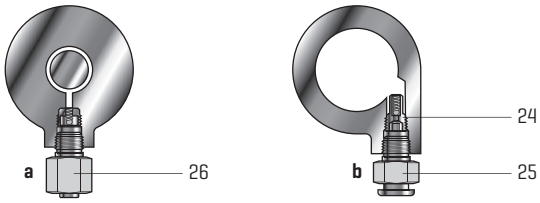


No	Name Of Part	Material
1	Body	A216 WCC
2	Plug	CA15 + Nitriding
3	Bonnet	A105
4	Plug Adjustment Screw	A193 B7M
5	Plug Adjustment Lock Nut	Carbon Steel
6	Lower Pivot Disc	AISI 1035
7	Upper Pivot Disc	AISI 1035
8	Pivot Center	AISI 1035
9	Stud	A193 B7M
10	Nut	A194 2HM
11	Gasket	Flexible Graphite + 304
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

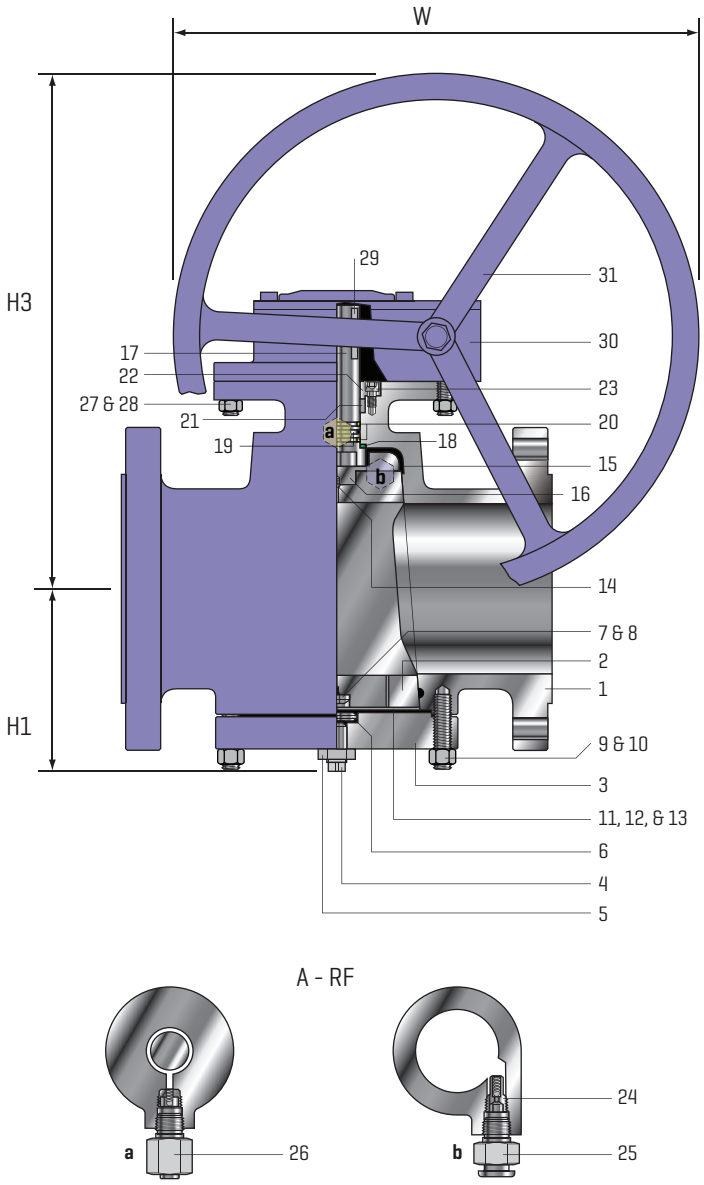




No	Name Of Part	Material
1	Body	A216 WCC
2	Plug	CA15 + Nitriding
3	Bonnet	A105
4	Plug Adjustment Screw	A193 B7M
5	Plug Adjustment Lock Nut	Carbon Steel
6	Lower Pivot Disc	AISI 1035
7	Upper Pivot Disc	AISI 1035
8	Pivot Center	AISI 1035
9	Stud	A193 B7M
10	Nut	A194 2HM
11	Gasket	Flexible Graphite + 304
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

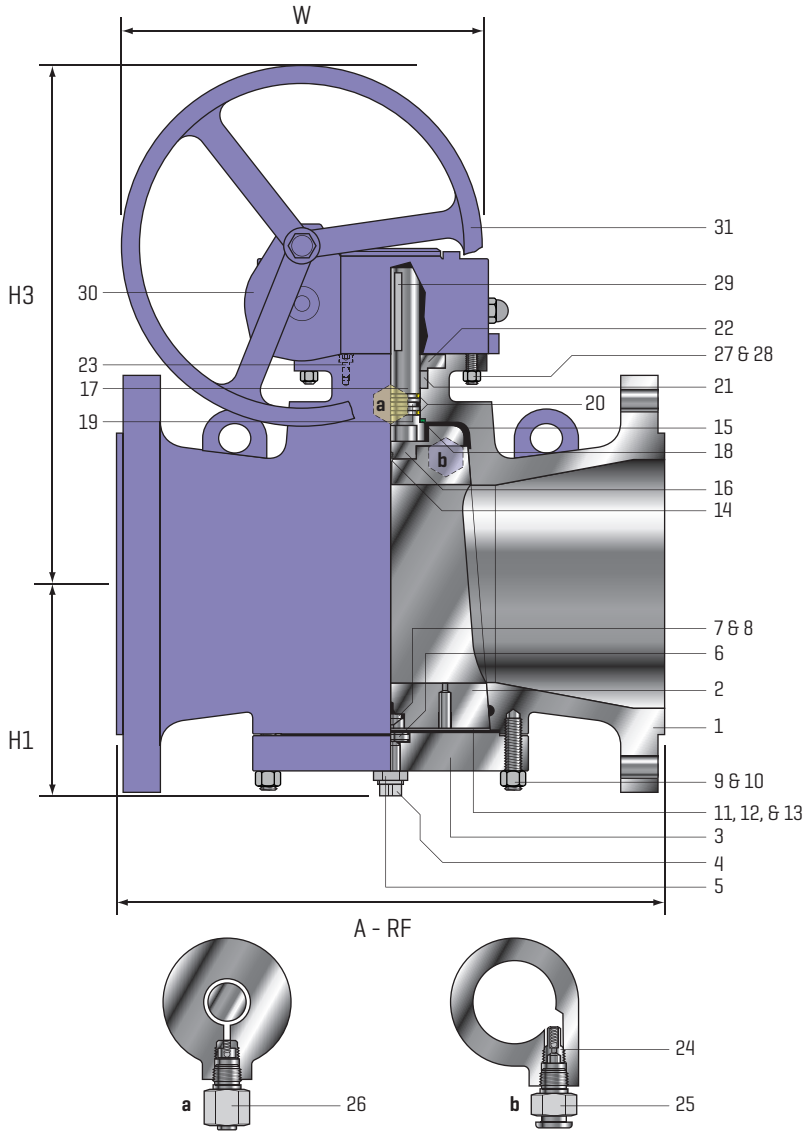
Regular Pattern - Pressure Balanced Lubricated Plug Valves
Size: 6” - 12” Class: 300



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

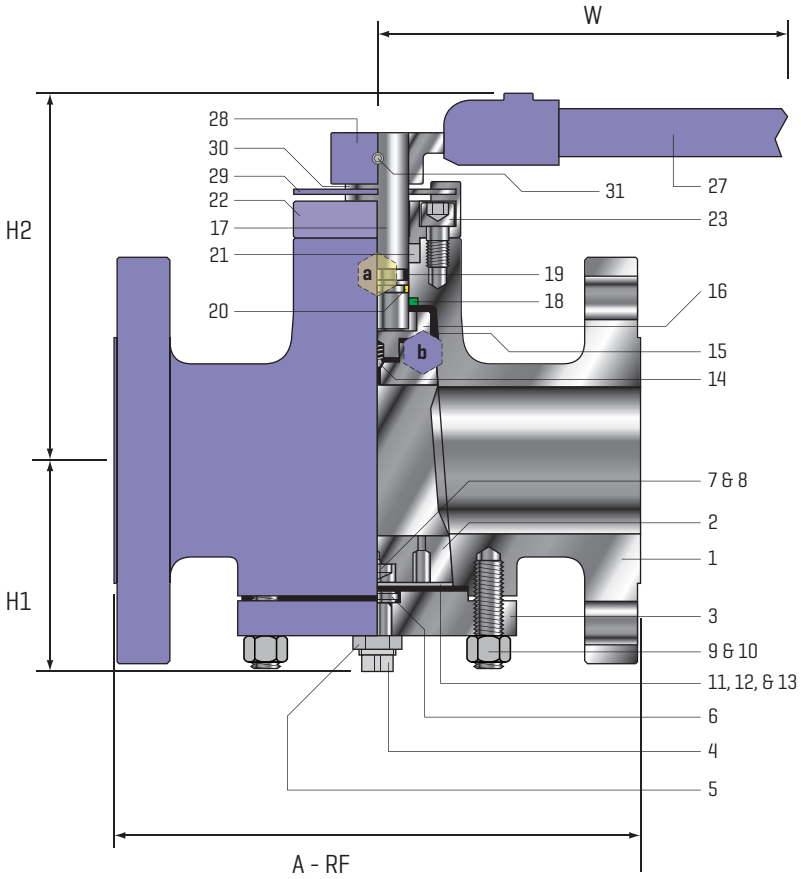
Venturi Pattern - Pressure Balanced Lubricated Plug Valves
Size: 14” - 36” Class: 300

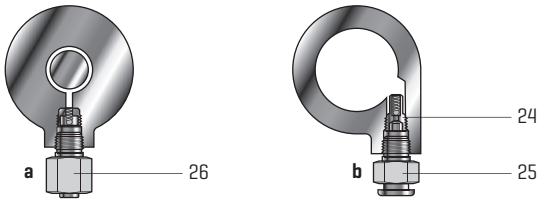


No	Name Of Part	Material
1	Body	A216 WCC
2	Plug	CA15 + Nitriding
3	Bonnet	A105
4	Plug Adjustment Screw	A193 B7M
5	Plug Adjustment Lock Nut	Carbon Steel
6	Lower Pivot Disc	AISI 1035
7	Upper Pivot Disc	AISI 1035
8	Pivot Center	AISI 1035
9	Stud	A193 B7M
10	Nut	A194 2HM
11	Gasket	Flexible Graphite + 304
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

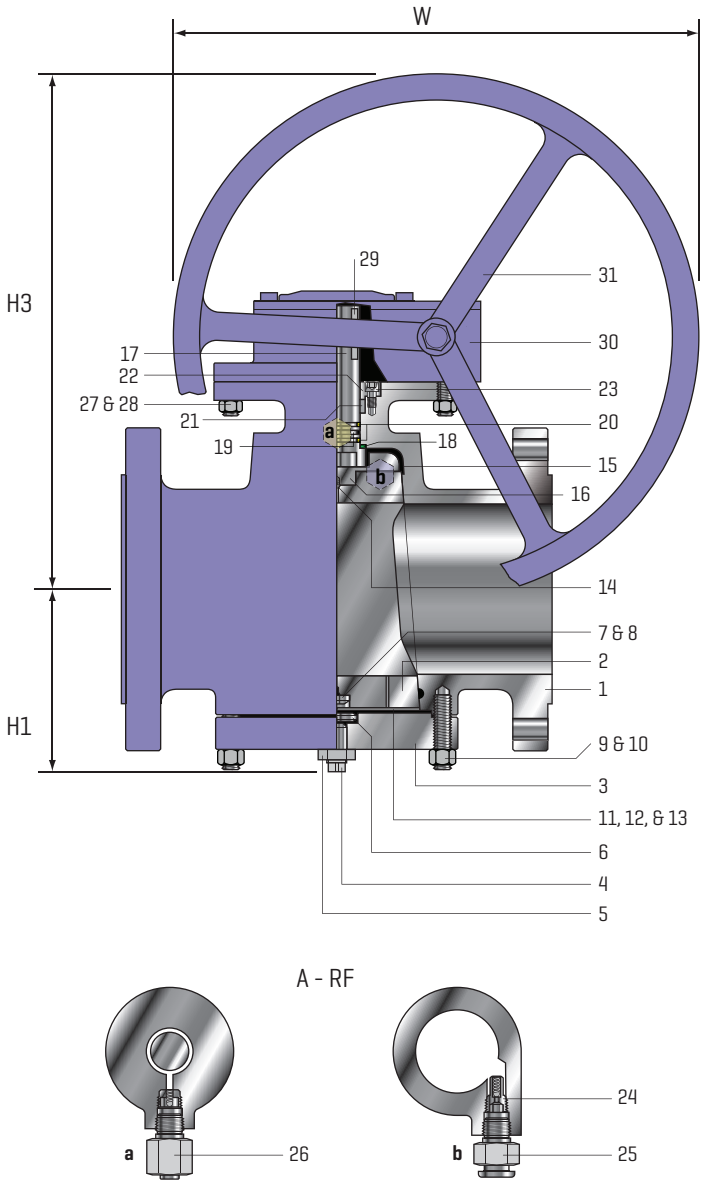




No	Name Of Part	Material
1	Body	A216 WCC
2	Plug	CA15 + Nitriding
3	Bonnet	A105
4	Plug Adjustment Screw	A193 B7M
5	Plug Adjustment Lock Nut	Carbon Steel
6	Lower Pivot Disc	AISI 1035
7	Upper Pivot Disc	AISI 1035
8	Pivot Center	AISI 1035
9	Stud	A193 B7M
10	Nut	A194 2HM
11	Gasket	Flexible Graphite + 304
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

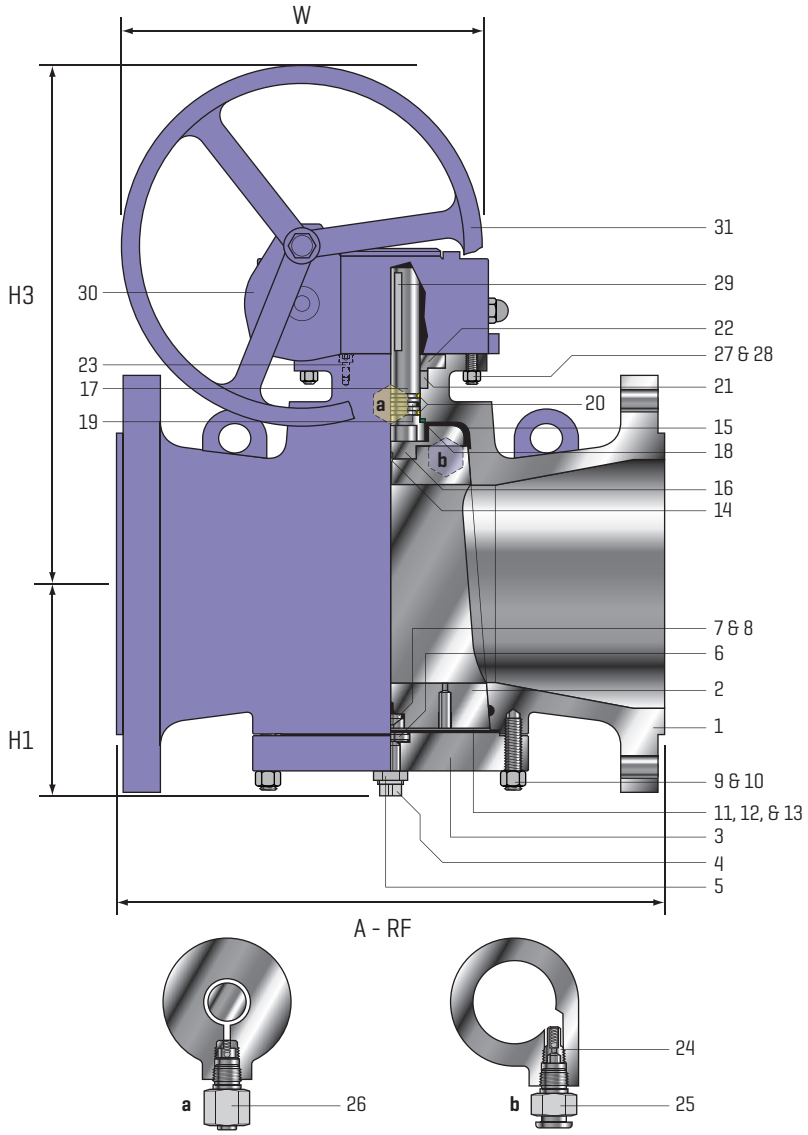
Regular Pattern - Pressure Balanced Lubricated Plug Valves
Size: 4” - 12” Class: 600



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

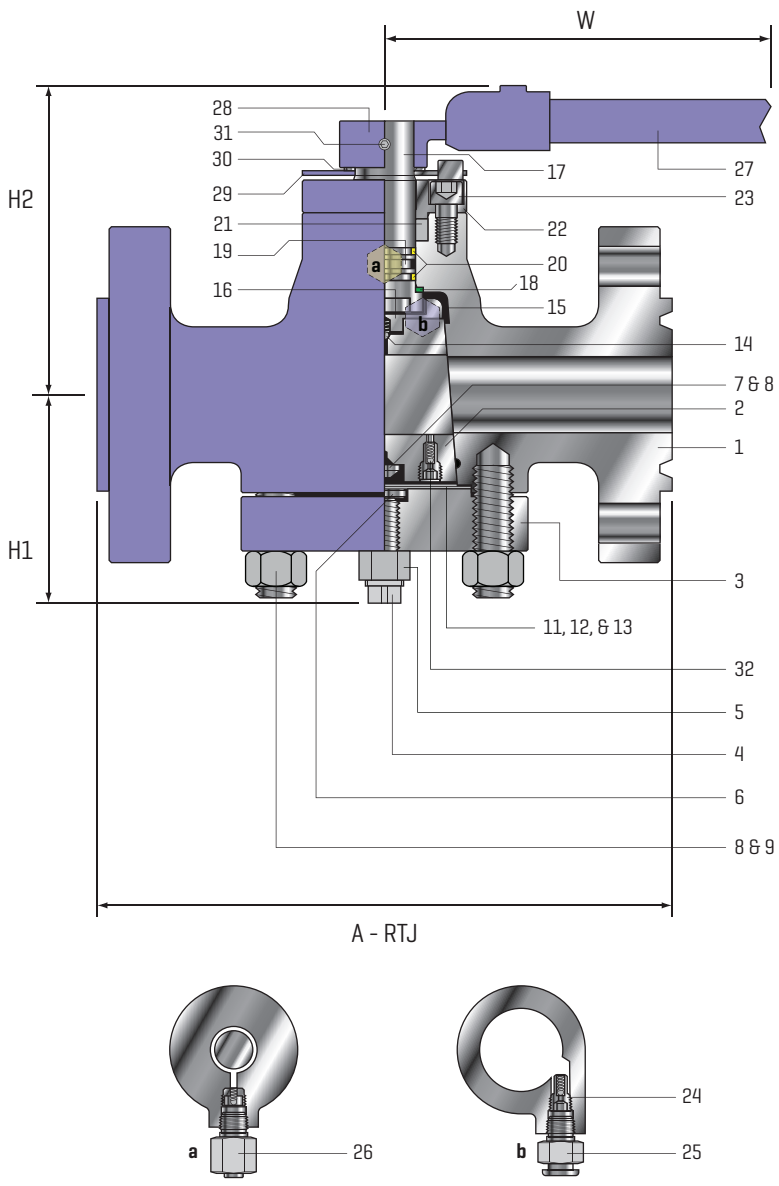
Venturi Pattern - Pressure Balanced Lubricated Plug Valves
Size: 6” - 24” Class: 600



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

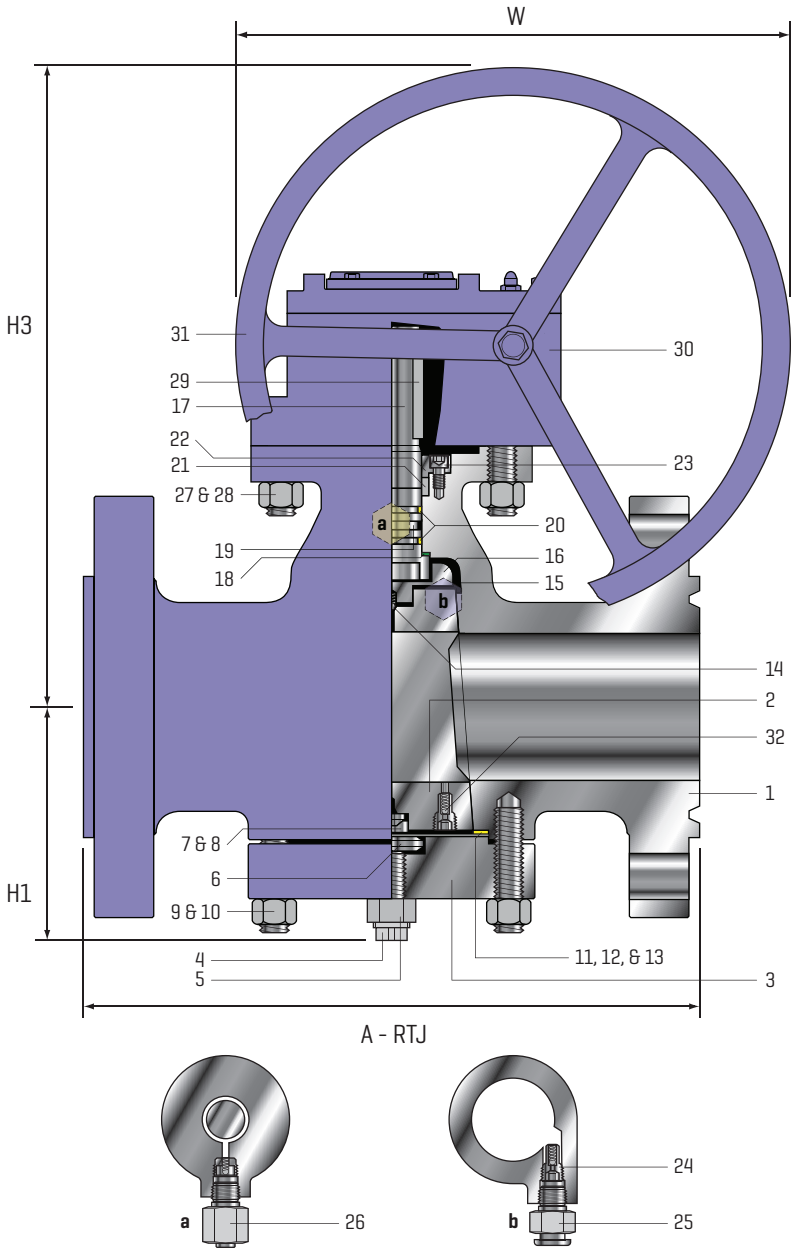
Regular Pattern - Pressure Balanced Lubricated Plug Valves
Size: 2” - 3” Class: 900



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

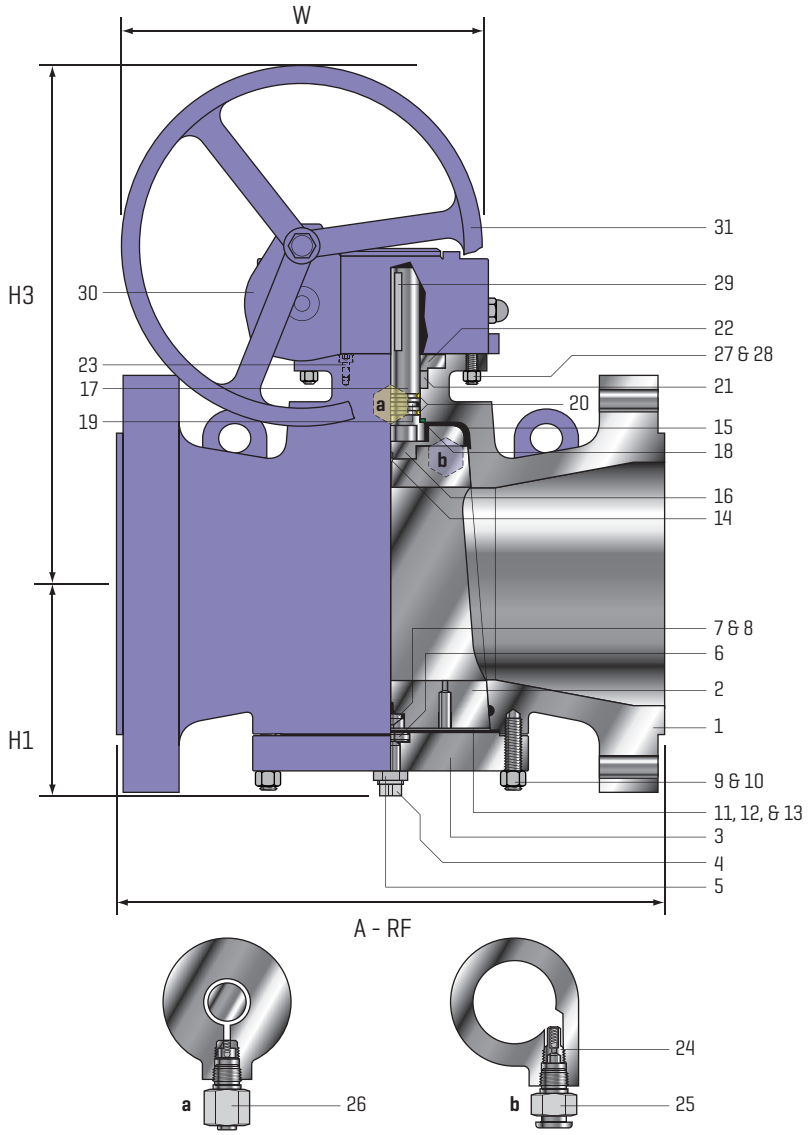
Regular Pattern - Pressure Balanced Lubricated Plug Valves
Size: 4” - 12” Class: 900



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

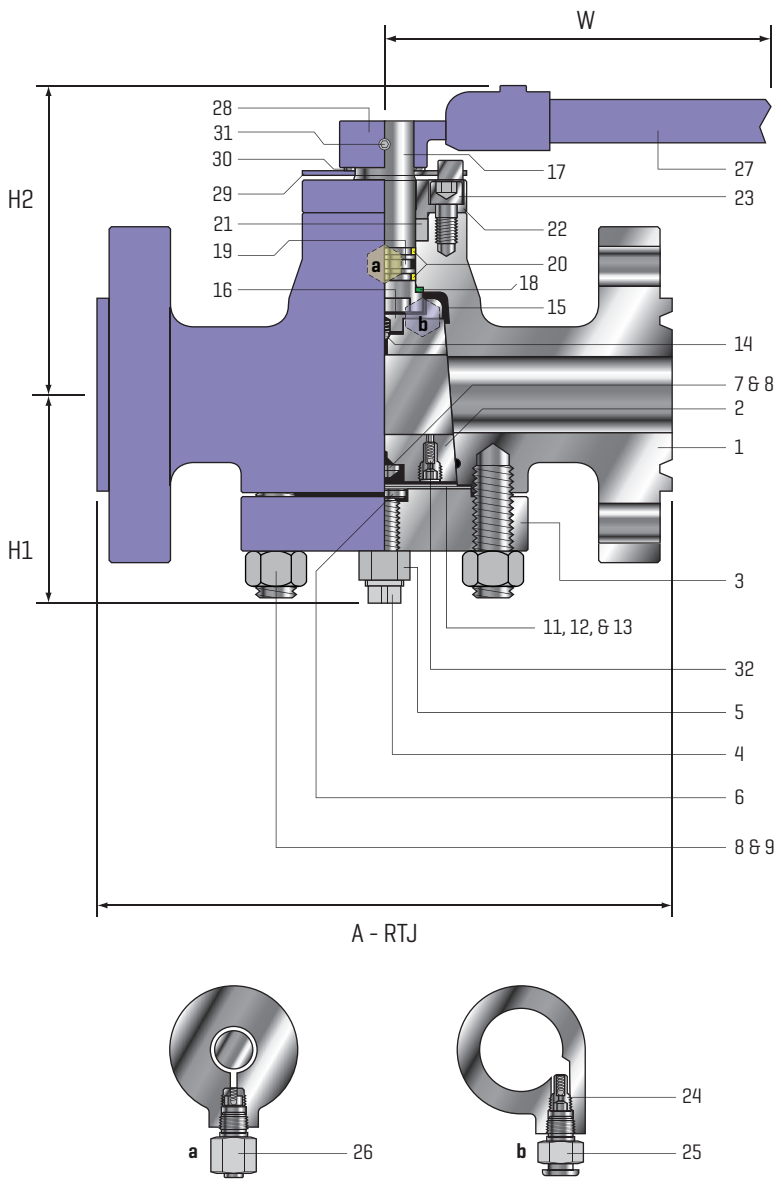
Venturi Pattern - Pressure Balanced Lubricated Plug Valves
Size: 14” - 24” Class: 900



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	*

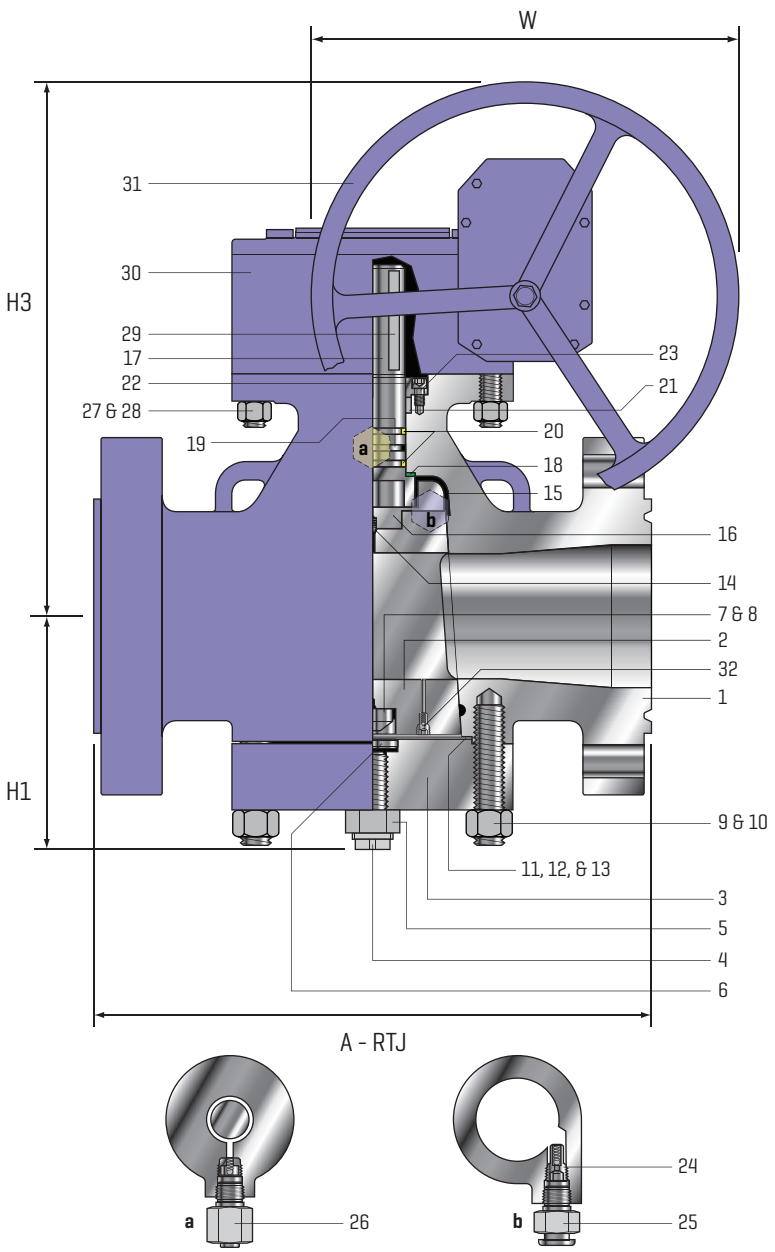
Regular Pattern - Pressure Balanced Lubricated Plug Valves
Size: 2” - 3” Class: 1500



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

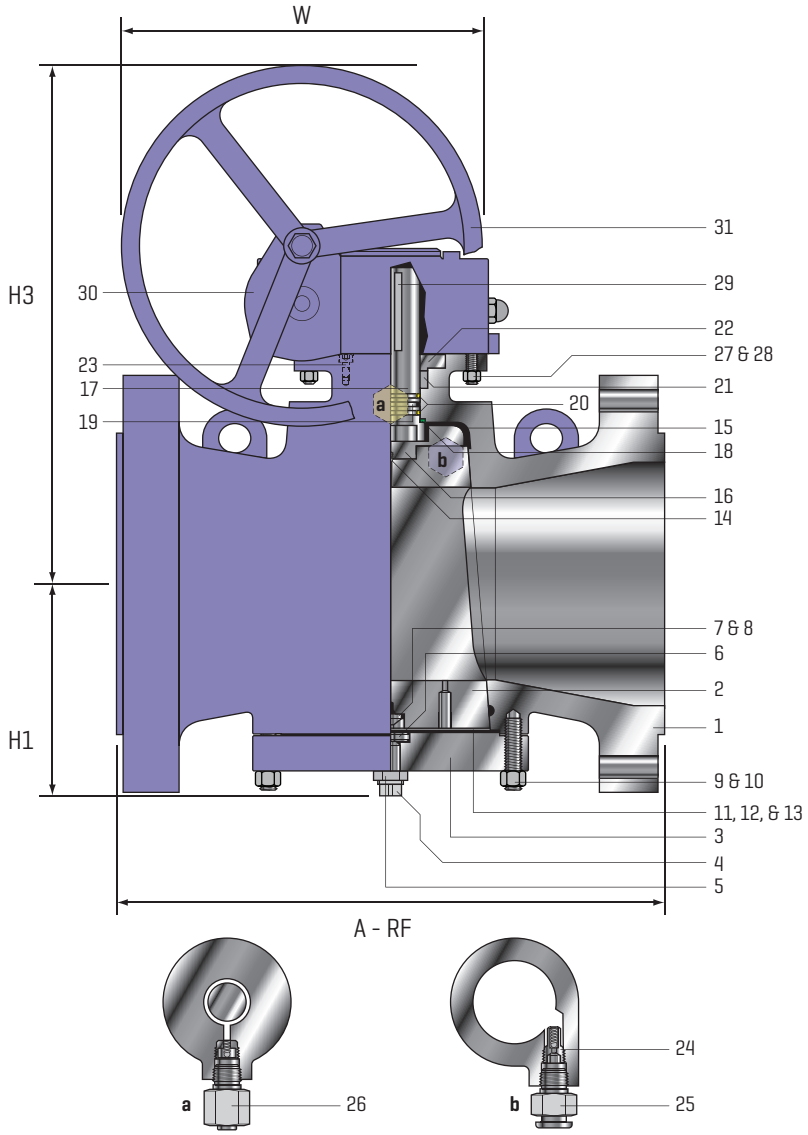
Regular Pattern - Pressure Balanced Lubricated Plug Valves
Size: 4” - 12” Class: 1500



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

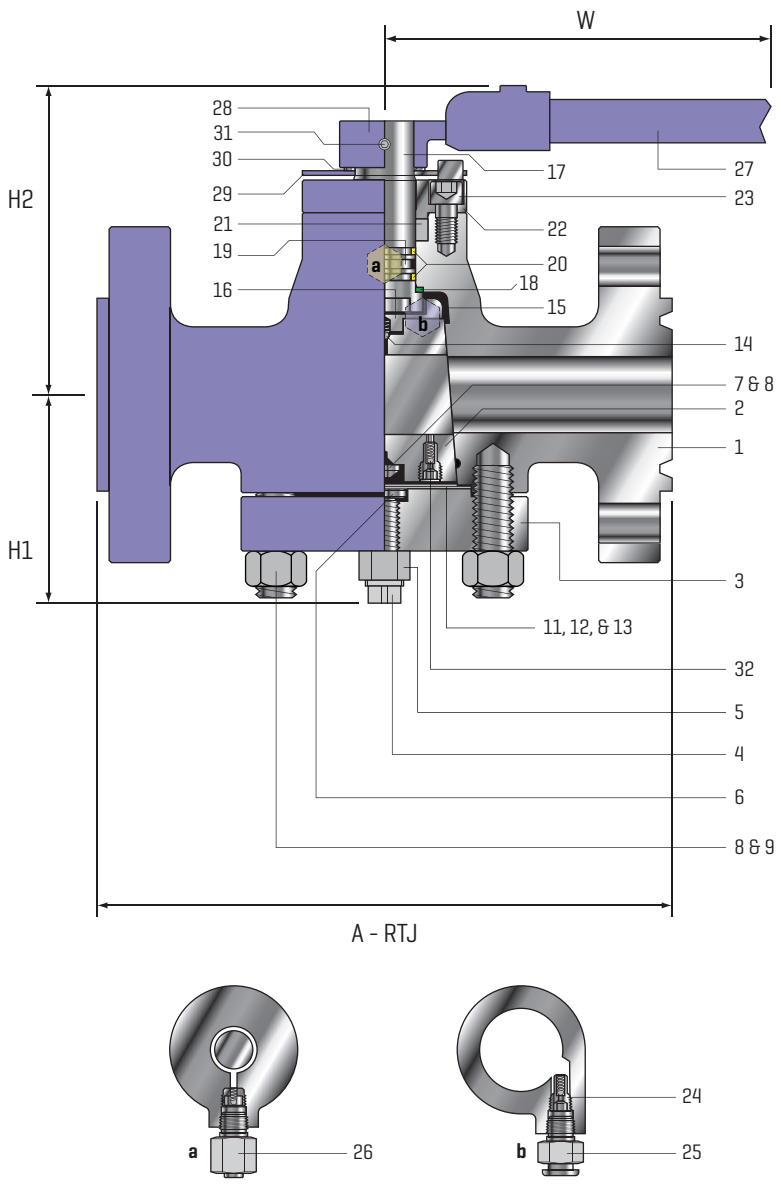
Venturi Pattern - Pressure Balanced Lubricated Plug Valves
Size: 14” - 18” Class: 1500



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	*

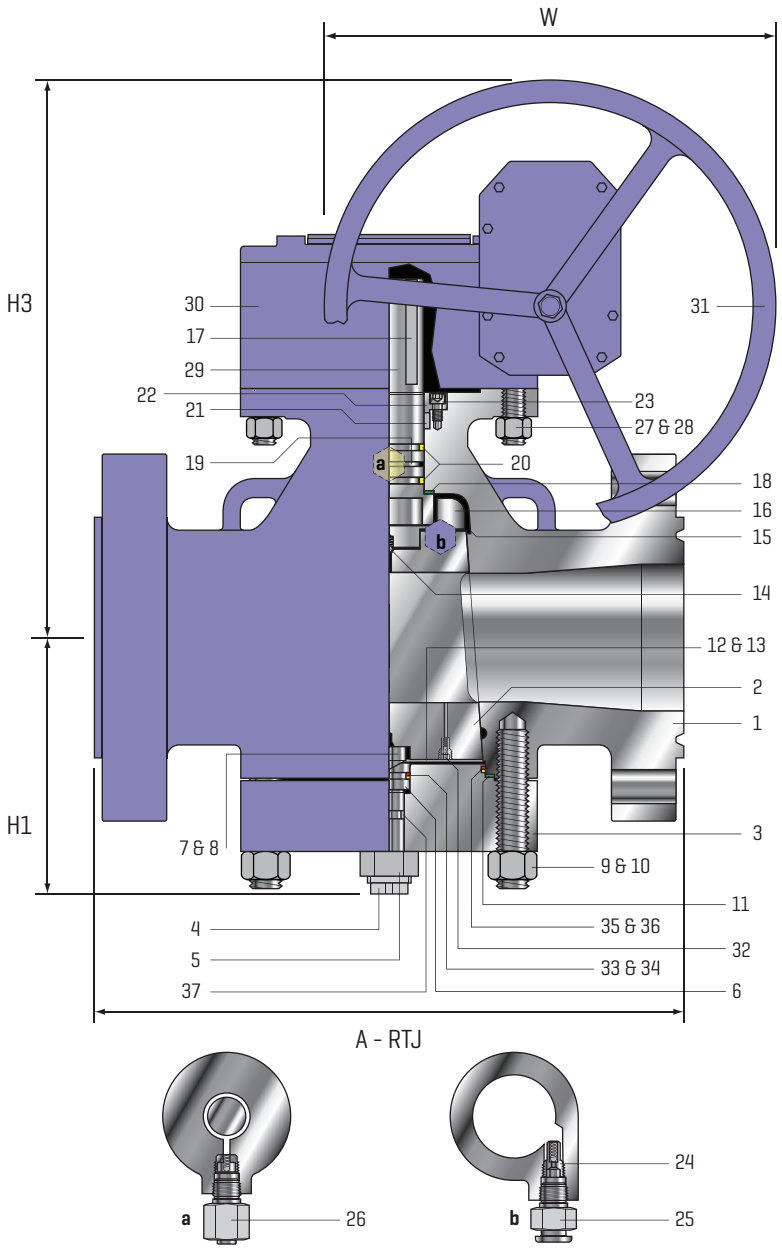
Regular Pattern - Pressure Balanced Lubricated Plug Valves
Size: 2” - 3” Class: 2500



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

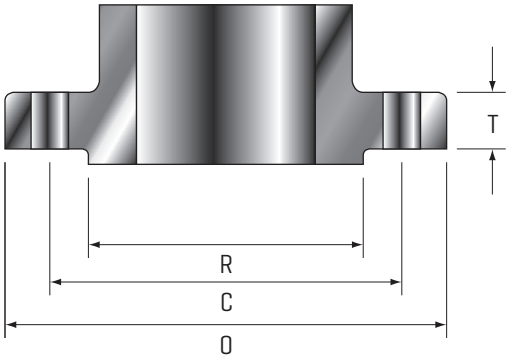
	Temp. F	A105	WCB	LF2	WCC	LCB	WC6	LCC	C5	C12	C12A	316	CF8M	F51	F53
600	-20 to 100	1480	1480	1480	1500	1395	1500	1500	1500	1500	1500	1440	1440	1500	1500
	200	1360	1360	1360	1500	1320	1500	1500	1500	1500	1500	1240	1240	1490	1490
	300	1310	1310	1310	1455	1275	1445	1455	1455	1455	1455	1120	1120	1335	1335
	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	/	/
	Temp. F	A105	WCB	LF2	WCC	LCB	WC6	LCC	C5	C12	C12A	316	CF8M	F51	F53
900	-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	/	/

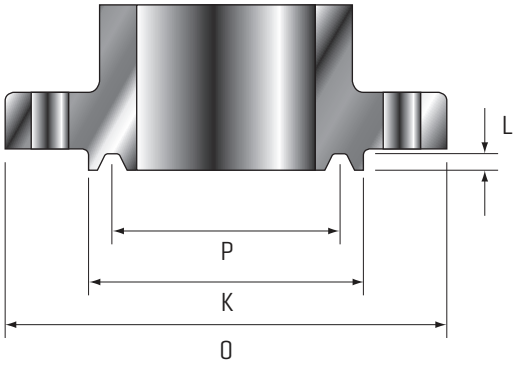
Pressure Temperature Ratings - ASME B16.34

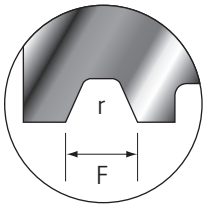
Note: Pressures in PSI

	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



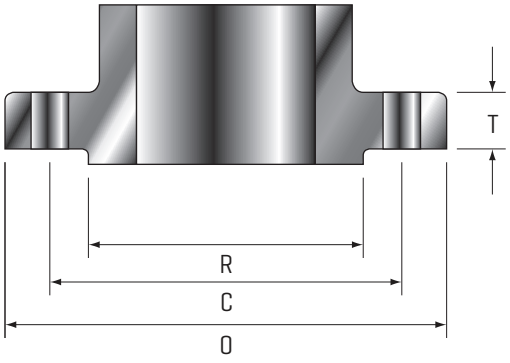


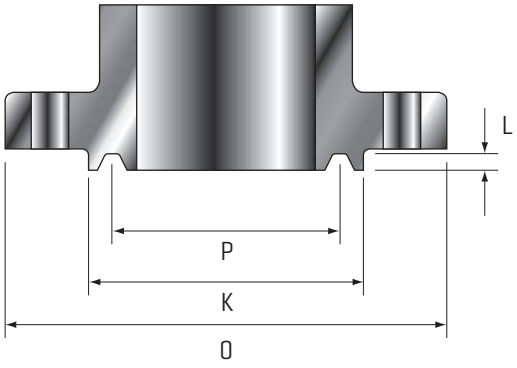


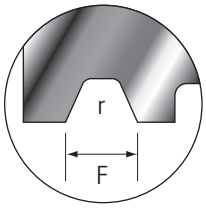
Groove Detail

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

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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Rev: SCVPBLPV - 031819

MASTER MATERIAL LIST

DOC	FCK-MSTR-ML
DATE	2020-02-03
REV	9
BY	AW 2019-02-25
APPR.	JM 2019-02-25

VALVE TYPE: **API 6D FULL PORT CHECK VALVES**

PART DESCRIPTION		FIGURE NO. 0811 FCK----B0811-/FV11V//S		FIGURE NO. 0893 FCK----B0893-/FV36H//S		FIGURE NO. 0835 or 0809 FCK----B0835-/FV36H//S		FIGURE N0. 0235 or 0209 FCK----B0235-/FV36H//S		FIGURE NO. 0211 FCK----B0211-/FV11H//S		FIGURE NO. 5151 FCK----B5151-/FV51V//S		FIGURE NO. 0635 or 0609 FCK----B0635-/FV36H//S	
PART NUMBER	PART NAME	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION
		ALL SIZES													
FCKXXXXBBR01	BODY	A216 WCC	1106	A216 WCC	1106	A216 WCC	1106	A352 LCC	1108	A352 LCC	1108	A890 Gr. 4A	1255	A351 CF8M	1202
FCKXXXXBC01	BONNET	A105	1101	A105	1101	A105	1101	A350 LF2	1102	A350 LF2	1102	A182 F51	1203	A182 316	1201
FCKXXXXBR01	SEAT	410 + HF	1224/1545	A182 F316 + HF	1201/1545	A182 F316 + HF	1201/1545	A182 F316 + HF	1201/1545	410 + HF	1224/1545	A182 F51	1203	A182 F316 + HF	1201/1545
FCKXXXXBA01	ARM	A216 WCC	1106	A216 WCC	1106	A351 CF8M	1202	A351 CF8M	1202	A352 LCC	1108	A890 Gr. 4A	1255	A351 CF8M	1202
FCKXXXXBD01	DISC	A216 WCC + 410	1208	A216 WCC + 316	1208	A351 CF8M	1202	A351 CF8M	1202	A352 LCC +410	1108	A890 Gr. 4A	1255	A351 CF8M	1202
FCKXXXXBS01	SHAFT	A276 TYPE 316	1211	A276 TYPE 316	1211	A276 TYPE 316	1211	A276 TYPE 316	1211	A276 TYPE 316	1211	A276 or A479 S31803	1204	A276 TYPE 316	1211
FCKXXXXBSE1	SHAFT EXTENDED	A276 TYPE 316	1211	A276 TYPE 316	1211	A276 TYPE 316	1211	A276 TYPE 316	1211	A276 TYPE 316	1211	A276 or A479 S31803	1204	A276 TYPE 316	1211
FCKXXXXBH01	END CAP	A105	1101	A105	1101	A105	1101	A350 LF2	1102	A350 LF2	1102	A276 or A479 S31803	1204	A276 TYPE 316	1211
FCKXXXXBH02	GLAND	A105	1101	A105	1101	A105	1101	A350 LF2	1102	A350 LF2	1102	A276 or A479 S31803	1204	A276 TYPE 316	1211
FCKXXXXBZ11	MOUNTING PLATE	A105	1101	A105	1101	A105	1101	A350 LF2	1102	A350 LF2	1102	A276 or A479 S31803	1204	A276 TYPE 316	1211
FCKXXXXBG01	BEARING	NITRONIC 60	TBD	NITRONIC 60	TBD	NITRONIC 60	TBD	NITRONIC 60	TBD	NITRONIC 60	TBD	NITRONIC 60	TBD	NITRONIC 60	TBD
FCKXXXXBG02	END BEARING	NITRONIC 60	TBD	NITRONIC 60	TBD	NITRONIC 60	TBD	NITRONIC 60	TBD	NITRONIC 60	TBD	NITRONIC 60	TBD	NITRONIC 60	TBD
FCKXXXXBG03	EXT. BEARING	PEEK	2008	PEEK	2008	PEEK	2008	PEEK	2008	PEEK	2008	PEEK	2008	PEEK	2008
FCKXXXXBQ02	SPACER	A105 + ENP or 316	1101/3001	A105 + ENP or 316	1101/3001	A276 TYPE 316	1211	A276 TYPE 316	1211	LF2 + ENP or ENP	1102/3001	A276 or A479 S31803	1204	A276 TYPE 316	1211
FCKXXXXGSK1	GASKET	316 SS + GRAPHITE	2042	316 SS + GRAPHITE	2042	316 SS + GRAPHITE	2042	316 SS + GRAPHITE	2042	316 SS + GRAPHITE	2042	316 SS + GRAPHITE	2042	316 SS + GRAPHITE	2042
FCKXXXXGSK2	GASKET	316 SS + GRAPHITE	2042	316 SS + GRAPHITE	2042	316 SS + GRAPHITE	2042	316 SS + GRAPHITE	2042	316 SS + GRAPHITE	2042	316 SS + GRAPHITE	2042	316 SS + GRAPHITE	2042
FCKXXXXBTB01	THRUST BEARING	PEEK	2008	PEEK	2008	PEEK	2008	PEEK	2008	PEEK	2008	PEEK	2008	PEEK	2008
WSHR-XXX-XXX	WASHER	304 SS	1208	304 SS	1208	A276 TYPE 316	1211	A276 TYPE 316	1211	304 SS	1211	304 SS	1211	A276 TYPE 316	1211
COTTER PIN	PIN	304 SS	1211	304 SS	1211	A276 TYPE 316	1211	A276 TYPE 316	1211	304 SS	1211	304 SS	1211	A276 TYPE 316	1211
FCK-LLH	HUB	A105	1101	A105	1101	A105	1101	A350 LF2	1102	A350 LF2	1102	A276 or A479 S31803	1204	A276 TYPE 316	1211
FCK-LLP	LOCK PLATE	A105	1101	A105	1101	A105	1101	A350 LF2	1102	A350 LF2	1102	A276 or A479 S31803	1204	A276 TYPE 316	1211
FCK-LLR	LEVER	A105	1101	A105	1101	A105	1101	A350 LF2	1102	A350 LF2	1102	A276 or A479 S31803	1204	A276 TYPE 316	1211
FCK-LLW	LEVER WEIGHT	A105	1101	A105	1101	A105	1101	A350 LF2	1102	A350 LF2	1102	A276 or A479 S31803	1204	A276 TYPE 316	1211
0001	O-RING	VITON	VARIOUS	VITON	VARIOUS	VITON	VARIOUS	HNBR	VARIOUS	HNBR	VARIOUS	VITON	VARIOUS	VITON	VARIOUS
0009	STUD	A193 B7M	1304	A193 B7M	1304	A193 B7M	1304	A193 L7M	1314	A193 L7M	1314	A193 B8M	1302	A193 B8M	1302
0020	HEAVY HEX NUT	A194 2HM	1313	A194 2HM	1313	A194 2HM	1313	A194 7M	1315	A194 7M	1315	A194 8M	1328	A194 8M	1328
HSN-XXX	SLOTTED HEX NUT	A194 2HM	1313	A194 2HM	1313	A194 2HM	1313	A194 7M	1315	A194 7M	1315	A194 8M	1328	A194 8M	1328
0011	SHCS	A193 B7M	1304	A193 B7M	1304	A193 B7M	1304	A193 L7M	1314	A193 L7M	1314	A193 B8M	1302	A193 B8M	1302
0026	KEY	1045	1211	1045	1211	1045	1211	A276 TYPE 316	1211	1045	1211	A276 TYPE 316	1211	A276 TYPE 316	1211
0005	GRAPHOIL ROPE	GRAPHOIL	2006	GRAPHOIL	2006	GRAPHOIL	2006	GRAPHOIL	2006	GRAPHOIL	2006	GRAPHOIL	2006	GRAPHOIL	2006
0030	NPT PLUG	316 SS	PER MFR	316 SS	PER MFR	316 SS	PER MFR	316 SS	PER MFR	316 SS	PER MFR	316 SS	PER MFR	316 SS	PER MFR
0032	PKG INJ FITTING	316 SS	PER MFR	316 SS	PER MFR	316 SS	PER MFR	316 SS	PER MFR	316 SS	PER MFR	316 SS	PER MFR	316 SS	PER MFR
0015	SET SCREW	18-8SS	1205/1211	18-8SS	1205/1211	18-8SS	1205/1211	18-8SS	1205/1211	18-8SS	1205/1211	18-8SS	1205/1211	18-8SS	1205/1211

PRESSURE TEMPERATURE RATINGS

CLASS	TEMP	FIGURE NO. 0811	FIGURE N0. 0835	FIGURE NO. 0893	FIGURE N0. 0235	FIGURE N0. 0211	FIGURE N0. 0635		
150	-20 F	290	290	290	290	290	275		
	+250 F	245	245	245	245	245	225		
300	-20 F	750	750	750	750	750	720		
	+250 F	740	740	740	740	740	590		
600	-20 F	1500	1500	1500	1500	1500	1440		
	+250 F	1477	1477	1477	1477	1477	1180		
900	-20 F	2250	2250	2250	2250	2250	2160		
	+250 F	2218	2218	2218	2218	2218	1770		
1500	-20 F	3750	3750	3750	3750	3750	3600		
	+250 F	3695	3695	3695	3695	3695	2945		
2500	-20 F	6250	6250	6250	6250	6250	6000		
	+250 F	6160	6160	6160	6160	6160	4910		

MATERIAL LIST

DOC	PCK-MSTR-ML
DATE	2018-07-02
REV	1
BY	AW 2018-07-02
APPR.	JM 2018-07-02

VALVE TYPE: **PISTON CHECK VALVE**

PART DESCRIPTION		FIGURE N0. 0812		FIGURE N0. 0212		FIGURE N0. 0635	
PART NUMBER	PART NAME	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION
PCKXXXXBBR1	BODY	A216 WCC	1106	A352 LCC	1108	A351 CF8M	1202
PCKXXXXXC01	BONNET	A105	1101	A350 LF2	1102	A182 316	1201
PCKXXXXBA01	PISTON	A105+Ni-TRID+ST. 6	1101 / 3004	LF2+Ni-TRID+ST. 6	1102 / 3004	A182 F316 + HF	1201/1545
PCKXXXXBD01	CAGE	A105 + ENP	1101 / 3001	LF2 + ENP	1102 / 3001	A182 F316	1201
PCKXXXXBZ01	PISTON RING	PEEK	2020	PEEK	2020	PEEK	2020
0009	STUD	A193 B7M	1304	A320 L7M	1314	A193 B8M	1302
0020	HEAVY HEX NUT	A194 2HM	1313	A320 7M	1315	A194 8M	1328
0001	O-RING	VITON AED	2038	KA183 HNBR AED	2041	VITON AED	2038
PCKXXXXGSK1	GASKET	SS/GRAPHITE- GHE	2042	SS/GRAPHITE- GHE	2042	SS/GRAPHITE- GHE	2042
0029	VENT FITTING	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0031	BALL CHECK VALVE	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
PCK0033XXX	ORIFICE FITTING	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
PCKXXXBQXX	LIFT LUG	STEEL	PER MFR	STEEL	PER MFR	STEEL	PER MFR
PCKXXXXBS01	SPRING	X-750	1401	X-750	1401	X-750	1401
PCKXXXXBBUO1	BACK-UP RING	PEEK	2020	PEEK	2020	PEEK	2020
PCKXXXXBE01	SEAT	**2"-24" 150/300/600/900# & 2"-8" 1500#**					
		A105 + ST. 6	1101 / 3004	LF2 + ST. 6	1102 / 3004	A182 F316 + ST. 6	1201 / 3004
		10"-12" 1500# & 2"-8" 2500#					
		A182 F6 + ST. 6	1261 / 3004	A182 F6 + ST. 6	1261 / 3004	A182 F6 + ST. 6	1261 / 3004

PRESSURE TEMPERATURE RATINGS

CLASS	TEMP	FIGURE N0. 0812	FIGURE N0. 0212	FIGURE N0. 0635
150	-20 F	290 PSI	290 PSI	275 PSI
	+250 F	245 PSI	245 PSI	225 PSI
300	-20 F	750 PSI	750 PSI	720 PSI
	+250 F	740 PSI	740 PSI	590 PSI
600	-20 F	1500 PSI	1500 PSI	1440 PSI
	+250 F	1477 PSI	1477 PSI	1180 PSI
900	-20 F	2250 PSI	2250 PSI	2160 PSI
	+250 F	2217 PSI	2217 PSI	1770 PSI
1500	-20 F	3750 PSI	3750 PSI	3600 PSI
	+250 F	3695 PSI	3695 PSI	2945PSI
2500	-20 F	6250 PSI	6250 PSI	6000 PSI
	+250 F	6160 PSI	6160 PSI	4910 PSI

SCV	**MATERIAL LIST**	***2"-42"***	DOC	TCG6D-MSTR-ML
			DATE	2018-12-08
		150/300 ANSI	REV	1
VALVE TYPE:	**6D SLAB GATE VALVE**		BY	AW 2018-12-08
			APPR.	JM 2018-12-08

PART DESCRIPTION		FIGURE N0. 0813-VN		FIGURE N0. 0813-VR		FIGURE N0. 0215-HD	
PART NUMBER	PART NAME	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION
TCGXXXXBBJ1	BODY	A216 WCC	1106	A216 WCC	1106	A352 LCC	1108
EPGXXXXBE01	BONNET	A105	1101	A105	1101	A350 LF2	1102
EPGXXXXBST1	STEM	A564 TYPE 630, 17-4	1283	A564 TYPE 630, 17-4	1283	A564 TYPE 630, 17-4	1283
TCGXXXXBD01	SEAT	A105 + ENP	1101/3001	A105 + ENP	1101/3001	A350 LF2 + ENP	1102/3001
EPGXXXXBJ01	SEAT INSERT	NYLON	2004	RTFE	2016	DEVLON	2029
TCGXXXXBC01	GATE	A105 + ENP	1101/3001	A105 + ENP	1101/3001	A350 LF2 + ENP	1102/3001
EPGXXXXBA11	YOKE BASE	A105	1101	A105	1101	A105	1101
EPGXXXXBA21	YOKE TOP	A105	1101	A105	1101	A105	1101
EPGXXXXBA31	YOKE TUBE	A106 Gr. B PIPE	1143	A106 Gr. B PIPE	1143	A106 Gr. B PIPE	1143
EPGXXXXBL01	LANTERN RING	PEEK	2008	PEEK	2008	PEEK	2008
EPGXXXXBV01	STEM NUT	BRONZE	1548	BRONZE	1548	BRONZE	1548
EPGXXXXBU01	BEARING HOUSING	A105	1101	A105	1101	A105	1101
TB-XXXXXXXX	BEARING SET	52100 STEEL	PER MFR	52100 STEEL	PER MFR	52100 STEEL	PER MFR
EPGXXXXBZ01	HANDWHEEL	CS	PER MFR	CS	PER MFR	CS	PER MFR
EPGXXXXBY01	HANDWHEEL NUT	CS	PER MFR	CS	PER MFR	CS	PER MFR
EPGXXXXBT01	STEM PROTECTOR	CLEAR PLASTIC		CLEAR PLASTIC		CLEAR PLASTIC	
TCGXXXXBZ11	GATE RAIL	A105	1101	A105	1101	A105	1101
TCGXXXXBZ02	STOP	A105	1101	A105	1101	A105	1101
EPGXXXXBG01	GLAND	A105	1101	A105	1101	A105	1101
0018	PACKING	VITON/DUCK	PER MFR	VITON/DUCK	PER MFR	VITON/DUCK	PER MFR
0001	O-RING	VITON AED	2038	VITON AED	2038	HNBR	2041
TCGXXXXBBU01	BACK-UP RING	PEEK	2008	PEEK	2008	PEEK	2008
0014	GASKET	SS/GRAPHITE	2050	SS/GRAPHITE	2050	SS/GRAPHITE	2050
0011	SHCS	A193 B7M	1304	A193 B7M	1304	A320 L7M	1314
0009	STUD	A193 B7M	1304	A193 B7M	1304	A320 L7M	1314
0020	HEAVY HEX NUT	A194 2HM	1313	A194 2HM	1313	A320 7M	1315
TCGXXXXSS-WS	WAVESPRING	17-7 SS	1408	17-7 SS	1408	17-7 SS	1408
0030	NPT PLUG	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0028	GREASE FITTING, GBH	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0029	VENT FITTING	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0031	BALL CHECK	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0032	PKG INJ FITTING	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0015	SET SCREW	B7M	1304	B7M	1304	B7M	1304
TCGXXXXBQ01	LIFT PLATE	A36	1122	A36	1122	A36	1122
0039	BALL VALVE	CS	PER MFR	CS	PER MFR	CS	PER MFR
0040	PIPE NIPPLE	A106	1143	A106	1143	A106	1143

PRESSURE TEMPERATURE RATINGS			
CLASS	TEMP	FIGURE N0. 0813	FIGURE N0. 0215
150	-20 F	290 PSI	290 PSI
	+250 F	245 PSI	245 PSI
300	-20 F	750 PSI	750 PSI
	+250 F	740 PSI	740 PSI
600	-20 F	1500 PSI	1500 PSI
	+250 F	1477 PSI	1477 PSI
900	-20 F	2250 PSI	2250 PSI
	+250 F	2217 PSI	2217 PSI
1500	-20 F	3750 PSI	3750 PSI
	+250 F	3695 PSI	3695 PSI
2500	-20 F	6250 PSI	6250 PSI
	+250 F	6160 PSI	6160 PSI

MATERIAL LIST

DOC	PLG-MSTR-ML
DATE	2018-07-05
REV	1
BY	AW
APPR.	JM

VALVE TYPE: **PLUG VALVE 150-1500#**

PART DESCRIPTION		FIGURE NO. HISTORIC - 1084-V/ NEW - PLG//////B1084///V//CBS		FIGURE NO. HISTORIC - 0284-H/ NEW - PLG//////B0284///H//CBS		FIGURE NO. HISTORIC - TBD FULL SS	
PART NUMBER	PART NAME	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION
PLGXXXXBB01	BODY	A216 WCB	1103	A352 LCC	1108	CF8M	
PLGXXXXBC01	PLUG	A743 CA15 + Nitride		A743 CA15 + Nitride		A182 F316 + Nitride	
PLGXXXXBG01	STEM	A182 F6a CL. 2	1224	A182 F6a CL. 2	1224	A182 F316	1201
PLGXXXXBM01	CENTERING BALL	410 SS	1256	410 SS	1256	A182 F316	1201
PLGXXXXBK01	LOWER COVER PLATE	A105	1101	A350 LF2	1102	CF8M	
PLGXXXXBE01	CONNECTION PLATE	A216 WCB	1103	A350 LF2	1102	CF8M	
PLGXXXXBA01	ADJUSTMENT PLATE	A105	1101	A350 LF2	1102	A182 F316	1201
PLGXXXXBD01	ADJUSTMENT PLATE CTR	410 SS	1256	A350 LF2	1102	A182 F316	1201
PLGXXXXBF01	ADJUSTMENT SCREW	A193 B7M	1304	A320 L7M	1314	A193 B7M	1304
PLGXXXXBN01	THRUST BEARING	PEEK	2020	PEEK	2020	PEEK	2020
PLGXXXXBH01	PACKING GLAND	A105	1101	A350 LF2	1102	A182 F316	1201
PLGXXXXBPKG	PACKING	PTFE COATED GRAPHITE	2016	PTFE COATED GRAPHITE	2016	PTFE COATED GRAPHITE	2016
PLGXXXXBP01	GASKET PLATE A	304 SS	1205	304 SS	1205	304 SS	1205
PLGXXXXBP02	GASKET PLATE B	A36	1122	A36	1122	304 SS	1205
PLGXXXXBSWG	GASKET	SS/GRAPHITE	2042	SS/GRAPHITE	2042	SS/GRAPHITE	2042
0011XXX-XX-XXX	SHCS	A193 B7M	1304	A320 L7M	1314	A193 B8M	1302
009XXX-XX-XXX	STUD	A193 B7M	1304	A320 L7M	1314	A193 B8M	1302
0020XXX	HEAVY HEX NUT	A194 2HM	1313	A320 7M	1315	A193 B8M	1302
0001-XXX	O-RING	VITON AED	2038	HNBR	2041	VITON AED	2038
ST-BAL-XMM	STEEL BALL	304 SS	1205	304 SS	1205	304 SS	1205
CL-SPR-XMM	ANTI-STATIC SPRING	X-750	1401	X-750	1401	X-750	1401
0028XXX	GREASE FITTING, GBH	316 SS	PER MFR	316 SS	PER MFR	316 SS	PER MFR
0032XXX	PKG INJ FITTING	316 SS	PER MFR	316 SS	PER MFR	316 SS	PER MFR
0031XXX	BALL CHECK FITTING	316 SS	PER MFR	316 SS	PER MFR	316 SS	PER MFR

PRESSURE TEMPERATURE RATINGS		
CLASS	TEMP	FIGURE N0. 0813
150	-20 F +250 F	290 PSI 245 PSI
300	-20 F +250 F	750 PSI 740 PSI
600	-20 F +250 F	1500 PSI 1477 PSI
900	-20 F +250 F	2250 PSI 2217 PSI
1500	-20 F +250 F	3750 PSI 3695 PSI
2500	-20 F +250 F	6250 PSI 6160 PSI

PRESSURE TEMPERATURE RATINGS			
CLASS	TEMP		FIGURE NO. 0284
150	-50 F +250 F		290 PSI 245 PSI
300	-50 F +250 F		750 PSI 740 PSI
600	-50 F +250 F		1500 PSI 1477 PSI
900	-50 F +250 F		2250 PSI 2217 PSI
1500	-50 F +250 F		3750 PSI 3695 PSI
2500	-50 F +250 F		6250 PSI 6160 PSI

MATERIAL LIST

DOC	PLG-MSTR-ML
DATE	2018-07-06
REV	1
BY	AW
APPR.	JM

VALVE TYPE: **PLUG VALVE 2500#**

PART DESCRIPTION		FIGURE NO. HISTORIC - 1084-V/ NEW - PLG//////B1084///V//CBS		FIGURE NO. HISTORIC - 0284-H/ NEW - PLG//////B0284///H//CBS	
PART NUMBER	PART NAME	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION
PLGXXXXBB01	BODY	A216 WCB	1103	A352 LCC	1108
PLGXXXXBC01	PLUG	A743 CA15 + Nitride		A743 CA15 + Nitride	
PLGXXXXBG01	STEM	A564 TYPE 630, 17-4	1283	A564 TYPE 630, 17-4	1283
PLGXXXXBM01	CENTERING BALL	410 SS	1256	410 SS	1256
PLGXXXXBK01	LOWER COVER PLATE	4140	1180	4140	1180
PLGXXXXBE01	CONNECTION PLATE	A216 WCB or A105	1103	A350 LF2	1102
PLGXXXXBA01	ADJUSTMENT PLATE	410 SS	1256	A350 LF2	1102
PLGXXXXBD01	ADJUSTMENT PLATE CTR	410 SS	1256	410 SS	1256
PLGXXXXBF01	ADJUSTMENT SCREW	A193 B7M	1304	A320 L7M	1314
PLGXXXXBN01	THRUST BEARING	PEEK	2020	PEEK	2020
PLGXXXXBH01	PACKING GLAND	4140	1180	A350 LF2	1102
PLGXXXXBPKG	PACKING	PTFE COATED GRAPHITE	2016	PTFE COATED GRAPHITE	2016
PLGXXXXBSWG	GASKET	SS/GRAPHITE	2042	SS/GRAPHITE	2042
0011XXX-XX-XXX	SHCS	A193 B7M	1304	A320 L7M	1314
009XXX-XX-XXX	STUD	A193 B7M	1304	A320 L7M	1314
0020XXX	HEAVY HEX NUT	A194 2HM	1313	A320 7M	1315
0001-XXX	O-RING	VITON AED	2038	HNBR	2041
ST-BAL-XMM	STEEL BALL	304 SS	1205	304 SS	1205
CL-SPR-XMM	ANTI-STATIC SPRING	X-750	1401	X-750	1401
0028XXX	GREASE FITTING, GBH	316 SS	PER MFR	316 SS	PER MFR
0032XXX	PKG INJ FITTING	316 SS	PER MFR	316 SS	PER MFR
0031XXX	BALL CHECK FITTING	316 SS	PER MFR	316 SS	PER MFR

MATERIAL LIST

DOC	PLG-MSTR-ML
DATE	2018-07-05
REV	1
BY	AW
APPR.	JM

VALVE TYPE: **PLUG VALVE 150-1500#**

PART DESCRIPTION		FIGURE NO.	
		HISTORIC - TBD	
		FULL SS	

PART NUMBER	PART NAME	MATERIAL	SCV MATERIAL SPECIFICATION
PLGXXXXBB01	BODY	A351 CF8M	1202
PLGXXXXBC01	PLUG	A182 F316 + Nitride	1201
PLGXXXXBG01	STEM	A182 F316	1201
PLGXXXXBM01	CENTERING BALL	A182 F316	1201
PLGXXXXBK01	LOWER COVER PLATE	A351 CF8M	1202
PLGXXXXBE01	CONNECTION PLATE	A351 CF8M	1202
PLGXXXXBA01	ADJUSTMENT PLATE	A182 F316	1201
PLGXXXXBD01	ADJUSTMENT PLATE CTR	A182 F316	1201
PLGXXXXBF01	ADJUSTMENT SCREW	A193 B8M	1302
PLGXXXXBN01	THRUST BEARING	PEEK	2020
PLGXXXXBH01	PACKING GLAND	A182 F316	1201
PLGXXXXBPKG	PACKING	PTFE COATED GRAPHITE	2016
PLGXXXXBP01	GASKET PLATE A	304 SS	1205
PLGXXXXBP02	GASKET PLATE B	304 SS	1205
PLGXXXXBSWG	GASKET	SS/GRAPHITE	2042
0011XXX-XX-XXX	SHCS	A193 B8M	1302
009XXX-XX-XXX	STUD	A193 B8M	1302
0020XXX	HEAVY HEX NUT	A193 B8M	1302
0001-XXX	O-RING	VITON AED	2038
ST-BAL-XMM	STEEL BALL	304 SS	1205
CL-SPR-XMM	ANTI-STATIC SPRING	X-750	1401
0028XXX	GREASE FITTING, GBH	316 SS	PER MFR
0032XXX	PKG INJ FITTING	316 SS	PER MFR
0031XXX	BALL CHECK FITTING	316 SS	PER MFR

PRESSURE TEMPERATURE RATINGS		
CLASS	TEMP	FIGURE N0. 0813
150	-20 F +250 F	290 PSI 245 PSI
300	-20 F +250 F	750 PSI 740 PSI
600	-20 F +250 F	1500 PSI 1477 PSI
900	-20 F +250 F	2250 PSI 2217 PSI
1500	-20 F +250 F	3750 PSI 3695 PSI
2500	-20 F +250 F	6250 PSI 6160 PSI

PRESSURE TEMPERATURE RATINGS			
CLASS	TEMP		FIGURE N0. 0284
150	-50 F +250 F		290 PSI 245 PSI
300	-50 F +250 F		750 PSI 740 PSI
600	-50 F +250 F		1500 PSI 1477 PSI
900	-50 F +250 F		2250 PSI 2217 PSI
1500	-50 F +250 F		3750 PSI 3695 PSI
2500	-50 F +250 F		6250 PSI 6160 PSI

MATERIAL LIST

2"-42"

150/300 ANSI

DOC	EPG6D-MSTR-ML
DATE	2019-11-01
REV	2
BY	AW 2018-12-08
APPR.	JM 2018-12-08

VALVE TYPE: **6D EXPANDING GATE VALVE**

PART DESCRIPTION		FIGURE N0. 0813-VN NEW*: 0806-VN		FIGURE N0. 0813-VN NEW*: 0806-VR		FIGURE N0. 0202-HD	
PART NUMBER	PART NAME	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION
EPGXXXXBBR1	BODY	A216 WCC	1106	A216 WCC	1106	A352 LCC	1108
EPGXXXXBE01	BONNET	A105	1101	A105	1101	A350 LF2	1102
EPGXXXXBST1	STEM	A564 TYPE 630, 17-4	1283	A564 TYPE 630, 17-4	1283	A564 TYPE 630, 17-4	1283
EPGXXXXBD01	SEAT	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224
EPGXXXXBJ01	SEAT INSERT	NYLON	2004	RTFE	2016	DEVLON	2029
EPGXXXXBCG1	GATE	A216 WCC + ENP	1106/3001	A216 WCC + ENP	1106/3001	A352 LCC + ENP	1102/3001
EPGXXXXBCS1	SEGMENT	A216 WCC + ENP	1106/3001	A216 WCC + ENP	1106/3001	A352 LCC + ENP	1102/3001
EPG0306BK01	SKIRT	A572 GR. 50	1178	A572 GR. 50	1178	A572 GR. 50	1178
EPGXXXXBA11	YOKE BASE	A105	1101	A105	1101	A105	1101
EPGXXXXBA21	YOKE TOP	A105	1101	A105	1101	A105	1101
EPGXXXXBA31	YOKE TUBE	A106 Gr. B PIPE	1143	A106 Gr. B PIPE	1143	A106 Gr. B PIPE	1143
EPGXXXXBL01	LANTERN RING	PEEK	2008	PEEK	2008	PEEK	2008
EPGXXXXBV01	STEM NUT	BRONZE	1548	BRONZE	1548	BRONZE	1548
EPGXXXXBU01	BEARING HOUSING	A105	1101	A105	1101	A105	1101
TB-XXXXXXXX	BEARING SET	51200 STEEL	PER MFR	51200 STEEL	PER MFR	51200 STEEL	PER MFR
EPGXXXXBZ01	HANDWHEEL	CS	PER MFR	CS	PER MFR	CS	PER MFR
EPGXXXXBY01	HANDWHEEL NUT	CS	PER MFR	CS	PER MFR	CS	PER MFR
EPGXXXXBT01	STEM PROTECTOR	CLEAR PLASTIC	PVC	CLEAR PLASTIC	PVC	CLEAR PLASTIC	PVC
EPGXXXXBG01	GLAND	A105	1101	A105	1101	A105	1101
EPGXXXXBFA1	LEVER LOCK ARM	A514 GR. B	1179	A514 GR. B	1179	A514 GR. B	1179
EPGXXXXBFP1	LEVER ARM PIN	4130	1129	4130	1129	4130	1129
EPGXXXXBFP1	GATE PIN	A105	1101	A105	1101	A105	1101
0018	PACKING	VITON/DUCK	PER MFR	VITON/DUCK	PER MFR	VITON/DUCK	PER MFR
0001	O-RING	VITON AED	2038	VITON AED	2038	HNBR	2041
0014	GASKET	SS/GRAPHITE-GHE	TBD	SS/GRAPHITE-GHE	TBD	SS/GRAPHITE-GHE	TBD
0011	SHCS	A193 B7M	1304	A193 B7M	1304	A320 L7M	1314
0009	STUD	A193 B7M	1304	A193 B7M	1304	A320 L7M	1314
0020	HEAVY HEX NUT	A194 2HM	1313	A194 2HM	1313	A320 7M	1315
0030	NPT PLUG	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0028	GREASE FITTING, GBH	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0029	VENT FITTING	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0031	BALL CHECK	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0032	PKG INJ FITTING	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0015	SET SCREW	B7M	1304	B7M	1304	B7M	1304
EPGXXXXBQ01	LIFT PLATE	A36	1122	A36	1122	A36	1122
0039	BALL VALVE	CS	PER MFR	CS	PER MFR	CS	PER MFR
0040	PIPE NIPPLE	A106	1143	A106	1143	A106	1143
0006	DOWEL PIN	4140	1180	4140	1180	4140	1180

PRESSURE TEMPERATURE RATINGS			
CLASS	TEMP	FIGURE N0. 0813	FIGURE N0. 0215
150	-20 F	290 PSI	290 PSI
	+250 F	245 PSI	245 PSI
300	-20 F	750 PSI	750 PSI
	+250 F	740 PSI	740 PSI
600	-20 F	1500 PSI	1500 PSI
	+250 F	1477 PSI	1477 PSI
900	-20 F	2250 PSI	2250 PSI
	+250 F	2217 PSI	2217 PSI
1500	-20 F	3750 PSI	3750 PSI
	+250 F	3695 PSI	3695 PSI
2500	-20 F	6250 PSI	6250 PSI
	+250 F	6160 PSI	6160 PSI

	MASTER MATERIAL LIST	2"-24"	2"-24"	DOC	BAL-6D-2-24-150-MTRL-SS	
				DATE	2024-10-16	
				REV	3	
VALVE TYPE:	3-PC TRUNNION BALL VALVE 6D	150 ANSI	150 ANSI	BY	JM	2024-10-16
				APPR.		

PART DESCRIPTION		FULL 316 GRADE SS		SS BODY/17-4 TRIM		SS BODY/DUPLEX TRIM		FULL DUPLEX	
		316 Body, 316 Trim, 316 Stem		316 BODY, DUPLEX TRIM		316 BODY, DUPLEX TRIM		DUPLEX BODY, DUPLEX TRIM	
TRIM CODE		S3		S7		SD		DD	
PART NUMBER	PART NAME	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION
BALXXXXBB01	BODY	A182 F316	1201	A182 F316	1201	A182 F316	1201	A182 F51	1245
BALXXXXBC01	BALL	A182 F316	1201	17-4 PH	1254	A182 F51	1245	A182 F51	1245
BALXXXXBAR1	ADAPTER	A182 F316	1201	A182 F316	1201	A182 F316	1201	A182 F51	1245
BALXXXXBD01	SEAT	A182 F316	1201	17-4 PH	1283	A276 F51	1204	A276 F51	1204
BALXXXXBG01	STEM	A182 F316	1201	17-4 PH	1283	A276 F51	1204	A276 F51	1204
BALXXXXBE01	SEAT INSERT	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE
BALXXXXBH01	GLAND	A182 F316	1201	A182 F316	1201	A182 F316	1201	A182 F51	1245
BALXXXXBZ01	GLAND RING	A182 F316	1201	A182 F316	1201	A182 F316	1201	A182 F51	1245
BALXXXXBJ01	MOUNTING PLATE	A182 F316	1201	A182 F316	1201	A182 F316	1201	A182 F51	1245
BALXXXXBK10	TRUNNION PLATE	A182 F316	1201	A182 F51	1245	A182 F51	1245	A182 F51	1245
BALXXXXBK01	TRUNNION	A182 F316	1201	A182 F316	1201	A182 F316	1201	A182 F51	1245
BALXXXXBR01	BEARING	316SS/PTFE BACKED	2012	316SS/PTFE BACKED	2012	316SS/PTFE BACKED	2012	316SS/PTFE BACKED	2012
BALXXXXBR02	BEARING	316SS/PTFE BACKED	2012	316SS/PTFE BACKED	2012	316SS/PTFE BACKED	2012	316SS/PTFE BACKED	2012
BALXXXXBR03	THRUST WASHER	DEVLON	2029	DEVLON	2029	DEVLON	2029	DEVLON	2029
BALXXXXBR04	SUPPORT BEARING	DEVLON	2029	DEVLON	2029	DEVLON	2029	DEVLON	2029
0001	O-RING	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE
BALXXXXGSKX	GASKET	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050
005125	GRAPHOIL ROPE	GRAPHOIL	2039	GRAPHOIL	2039	GRAPHOIL	2039	GRAPHOIL	2039
0009	STUD	A193 B8M	1302	A193 B8M	1302	A193 B8M	1302	A182 F51 (S31803)	1334
0020	HEAVY HEX NUT	A193 B8M	1302	A193 B8M	1302	A193 B8M	1302	A182 F51 (S31803)	1334
0110	SHCS	A193 B8M	1302	A193 B8M	1302	A193 B8M	1302	A182 F51 (S31803)	1334
BAL-SPR-9mm	SEAT SPRING	X-750	1401	X-750	1401	X-750	1401	X-750	1401
0006	DOWEL PIN	316SS	1201	316SS	1201	316SS	1201	316SS	1201
0038	GREASE FITTING	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0028	GREASE FITTING, GBH	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0030	NPT PLUG	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0029	VENT FITTING	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0031	BALL CHECK FTG	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0025	KEY	A182 F316	1261	A182 F316	1261	A182 F316	1261	A182 F51	1245
BALXXXXBP01	BODY PIN	A182 F316	1261	A182 F316	1261	A182 F316	1261	A182 F51	1245
BALXXXXBZ11	LOCK PLATE	CS/ZINC PI	PER MFR	CS/ZINC PI	PER MFR	CS/ZINC PI	PER MFR	CS/ZINC PI	PER MFR
BAL-LAR	LEVER	A105/PAINT	PER MFR	A105/PAINT	PER MFR	A105/PAINT	PER MFR	A105/PAINT	PER MFR
BALXXXXLL	LIFT LUG	f316	1122	A182 F316	1201	A182 F316	1201	A182 F51 Duplex	1245
BALXXXXFT	VALVE FOOT	f316	1122	A182 F316	1201	A182 F316	1201	A182 F51 Duplex	1245
BALXXXXBL01	LANTERN RING	PEEK	2020	PEEK	2020	PEEK	2020	PEEK	2020
METAL SEAT									
BALXXXXCM1	BALL	A182 F316 + T.C.	1201/3002						
BAL0406BDM1	SEAT	A182 F316 + ST. 6	1201/3004						

MASTER MATERIAL LIST

2"-24"

DOC	BAL-6D-2-24-150-MTRL-LF2	
DATE	2024-10-16	
REV	3	
BY	JM	2024-10-16
APPR.		

VALVE TYPE: **3-PC TRUNNION BALL VALVE 6D**

150 ANSI

PART DESCRIPTION		ENP TRIM		410 GRADE TRIM		316 GRADE TRIM		17-4 TRIM		DUPLEX TRIM	
		LF2 Body, ENP Trim, 410 Stem		LF2 Body, 410 Trim, 410 Stem		LF2 Body, 316 Trim, 316 Stem		LF2 Body, 17-4 TRIM, 17-4 STEM		LF2 Body, DUPLEX TRIM	
		BAL-XXXX-1215////15/C/S		BAL-XXXX-1241////41/C/S		BAL-XXXX-1236////36/F/S		BAL-XXXX-1217////17/D/S		BAL-XXXX-1251////51/G/S	
NEW TRIM CODE		LE		L4		L3		L7		LD	
PART NUMBER	PART NAME	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION
BALXXXXBB01	BODY	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102
BALXXXXBC01	BALL	A350 LF2 + ENP	1102 / 3001	A182 F6A CL. 2	1224	A182 F316	1201	17-4 PH	1254	F51 Duplex	1245
BALXXXXBAR1	ADAPTER	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102
BALXXXXBD01	SEAT	A350 LF2 + ENP	1102 / 3001	A182 F6A CL. 2	1224	A182 F316	1201	17-4 PH	1283	F51 Duplex	1245
BALXXXXBG01	STEM	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224	A182 F316	1201	17-4 PH	1283	F51 Duplex	1245
BALXXXXBE01	SEAT INSERT	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE
BALXXXXBH01	GLAND	A350 LF2 + ENP or F6A	1102 / 3001 or 1224	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001
BALXXXXBZ01	GLAND RING	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224
BALXXXXBJ01	MOUNTING PLATE	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102
BALXXXXBK10	TRUNNION PLATE	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001
BALXXXXBK01	TRUNNION	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001
BALXXXXBR01	BEARING	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012
BALXXXXBR02	BEARING	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012
BALXXXXBR03	THRUST WASHER	DEVLON	2029	DEVLON	2029	DEVLON	2029	DEVLON	2029	DEVLON	2029
BALXXXXBR04	SUPPORT BEARING	DEVLON	2029	DEVLON	2029	DEVLON	2029	DEVLON	2029	DEVLON	2029
0001	O-RING	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE
BALXXXXGSKX	GASKET	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050
005125	GRAPHOIL ROPE	GRAPHOIL	2039	GRAPHOIL	2039	GRAPHOIL	2039	GRAPHOIL	2039	GRAPHOIL	2039
0009	STUD	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314
0020	HEAVY HEX NUT	A194 7M	1315	A194 7M	1315	A194 7M	1315	A194 7M	1315	A194 7M	1315
0110	SHCS	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314
BAL-SPR-9mm	SEAT SPRING	X-750	1401	X-750	1401	X-750	1401	X-750	1401	X-750	1401
0006	DOWEL PIN	304SS	1205	304SS	1205	304SS	1205	304SS	1205	304SS	1205
0038	GREASE FITTING	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0028	GREASE FITTING, GBH	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0030	NPT PLUG	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0029	VENT FITTING	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0031	BALL CHECK FTG	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0025	KEY	1045 or equal	1314	1045 or equal	1314	1045 or equal	1314	1045 or equal	1314	1045 or equal	1314
BALXXXXBP01	BODY PIN	A105	1101	A105	1101	A105	1101	A105	1101	A105	1101
BALXXXXBZ11	LOCK PLATE	A105 or equal	1101	A105 or equal	1101	A105 or equal	1101	A105 or equal	1101	A105 or equal	1101
BAL-LAR	LEVER	A105 or equal	1101	A105 or equal	1101	A105 or equal	1101	A105 or equal	1101	A105 or equal	1101
BALXXXXLL	LIFT LUG	A36	1122	A36	1122	A36	1122	A36	1122	A36	1122
BALXXXXFT	VALVE FOOT	A36	1122	A36	1122	A36	1122	A36	1122	A36	1122
BALXXXXBL01	LANTERN RING	PEEK	2020	PEEK	2020	PEEK	2020	PEEK	2020	PEEK	2020
		METAL SEAT									
BALXXXXCM1	BALL	A182 F6A CL. 2 + T.C.	1224/3002	A182 F6A CL. 2 + T.C.	1224/3002	A182 F316 + T.C.	1201/3002				
BAL0406BDM1	SEAT	A182 F6A CL. 2 + ST. 6	1224/3004	A182 F6A CL. 2 + ST. 6	1224/3004	A182 F316 + ST. 6	1201/3004				

MASTER MATERIAL LIST

2" - 6"

DOC	BAL-6D-2-6-300-MTRL-LF2
DATE	2024-10-16
REV	3
BY	JM 2024-10-16
APPR.	

VALVE TYPE: **3-PC TRUNNION BALL VALVE 6D**

300 ANSI

PART DESCRIPTION		ENP TRIM		410 GRADE TRIM		316 GRADE TRIM		17-4 TRIM		DUPLEX TRIM	
		LF2 Body, ENP Trim, 410 Stem		LF2 Body, 410 Trim, 410 Stem		LF2 Body, 316 Trim, 316 Stem		LF2 Body, 17-4 TRIM, 17-4 STEM		LF2 Body, DUPLEX TRIM	
		BAL-XXXX-1215////15/C/S		BAL-XXXX-1241////41/C/S		BAL-XXXX-1236////36/F/S		BAL-XXXX-1217////17/D/S		BAL-XXXX-1251////51/G/S	
NEW TRIM CODE		LE		L4		L3		L7		LD	
PART NUMBER	PART NAME	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION
BALXXXXBB01	BODY	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102
BALXXXXBC01	BALL	A350 LF2 + ENP	1102 / 3001	A182 F6A CL. 2	1224	A182 F316	1201	17-4 PH	1254	F51 Duplex	1245
BALXXXXBAR1	ADAPTER	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102
BALXXXXBD01	SEAT	A350 LF2 + ENP	1102 / 3001	A182 F6A CL. 2	1224	A182 F316	1201	17-4 PH	1283	F51 Duplex	1245
BALXXXXBG01	STEM	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224	A182 F316	1201	17-4 PH	1283	F51 Duplex	1245
BALXXXXBE01	SEAT INSERT	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE
BALXXXXBH01	GLAND	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001
BALXXXXBZ01	GLAND RING	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224
BALXXXXBJ01	MOUNTING PLATE	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102
BALXXXXBK10	TRUNNION PLATE	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001
BALXXXXBK01	TRUNNION	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001
BALXXXXBR01	BEARING	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012
BALXXXXBR02	BEARING	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012
BALXXXXBR03	THRUST WASHER	DEVLON	2029	DEVLON	2029	DEVLON	2029	DEVLON	2029	DEVLON	2029
BALXXXXBR04	SUPPORT BEARING	DEVLON	2029	DEVLON	2029	DEVLON	2029	DEVLON	2029	DEVLON	2029
0001	O-RING	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE
BALXXXXGSKX	GASKET	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050
005125	GRAPHOIL ROPE	GRAPHOIL	2039	GRAPHOIL	2039	GRAPHOIL	2039	GRAPHOIL	2039	GRAPHOIL	2039
0009	STUD	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314
0020	HEAVY HEX NUT	A194 7M	1315	A194 7M	1315	A194 7M	1315	A194 7M	1315	A194 7M	1315
0110	SHCS	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314
BAL-SPR-9mm	SEAT SPRING	X-750	1401	X-750	1401	X-750	1401	X-750	1401	X-750	1401
0006	DOWEL PIN	304SS	1205	304SS	1205	304SS	1205	304SS	1205	304SS	1205
0038	GREASE FITTING	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0028	GREASE FITTING, GBH	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0030	NPT PLUG	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0029	VENT FITTING	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0031	BALL CHECK FTG	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0025	KEY	1045 or equal	1314	1045 or equal	1314	1045 or equal	1314	1045 or equal	1314	1045 or equal	1314
BALXXXXBP01	BODY PIN	A105	1101	A105	1101	A105	1101	A105	1101	A105	1101
BALXXXXBZ11	LOCK PLATE	A105 or equal	1101	A105 or equal	1101	A105 or equal	1101	A105 or equal	1101	A105 or equal	1101
BAL-LAR	LEVER	A105 or equal	1101	A105 or equal	1101	A105 or equal	1101	A105 or equal	1101	A105 or equal	1101
BALXXXXLL	LIFT LUG	A36	1122	A36	1122	A36	1122	A36	1122	A36	1122
BALXXXXFT	VALVE FOOT	A36	1122	A36	1122	A36	1122	A36	1122	A36	1122
BALXXXXBL01	LANTERN RING	PEEK	2020	PEEK	2020	PEEK	2020	PEEK	2020	PEEK	2020
		METAL SEAT									
BALXXXXCM1	BALL	A182 F6A CL. 2 + T.C.	1224/3002	A182 F6A CL. 2 + T.C.	1224/3002	A182 F316 + T.C.	1201/3002				
BAL0406BDM1	SEAT	A182 F6A CL. 2 + ST. 6	1224/3004	A182 F6A CL. 2 + ST. 6	1224/3004	A182 F316 + ST. 6	1201/3004				

MASTER MATERIAL LIST

8"-24"

DOC	BAL-6D-8-24-300-MTRL-LF2
DATE	2024-10-16
REV	3
BY	JM 2024-10-16
APPR.	

VALVE TYPE: **3-PC TRUNNION BALL VALVE 6D**

300 ANSI

PART DESCRIPTION		ENP TRIM		410 GRADE TRIM		316 GRADE TRIM		17-4 TRIM		DUPLEX TRIM	
		LF2 Body, ENP Trim, 410 Stem		LF2 Body, 410 Trim, 410 Stem		LF2 Body, 316 Trim, 316 Stem		LF2 Body, 17-4 TRIM, 17-4 STEM		LF2 Body, DUPLEX TRIM	
		BAL-XXXX-1215////15/C/S		BAL-XXXX-1241////41/C/S		BAL-XXXX-1236////36/F/S		BAL-XXXX-1217////17/D/S		BAL-XXXX-1251////51/G/S	
NEW TRIM CODE		LE		L4		L3		L7		LD	
PART NUMBER	PART NAME	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION
BALXXXXBB01	BODY	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102
BALXXXXBC01	BALL	A350 LF2 + ENP	1102 / 3001	A182 F6A CL. 2	1224	A182 F316	1201	17-4 PH	1254	F51 Duplex	1245
BALXXXXBAR1	ADAPTER	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102
BALXXXXBD01	SEAT	A350 LF2 + ENP	1102 / 3001	A182 F6A CL. 2	1224	A182 F316	1201	17-4 PH	1283	F51 Duplex	1245
BALXXXXBG01	STEM	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224	Duplex A276	1204	17-4 PH	1283	F51 Duplex	1245
BALXXXXBE01	SEAT INSERT	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE
BALXXXXBH01	GLAND	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001
BALXXXXBZ01	GLAND RING	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224
BALXXXXBJ01	MOUNTING PLATE	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102
BALXXXXBK10	TRUNNION PLATE	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001
BALXXXXBK01	TRUNNION	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001
BALXXXXBR01	BEARING	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012
BALXXXXBR02	BEARING	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012
BALXXXXBR03	THRUST WASHER	DEVLON	2029	DEVLON	2029	DEVLON	2029	DEVLON	2029	DEVLON	2029
BALXXXXBR04	SUPPORT BEARING	DEVLON	2029	DEVLON	2029	DEVLON	2029	DEVLON	2029	DEVLON	2029
0001	O-RING	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE
BALXXXXGSKX	GASKET	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050
005125	GRAPHOIL ROPE	GRAPHOIL	2039	GRAPHOIL	2039	GRAPHOIL	2039	GRAPHOIL	2039	GRAPHOIL	2039
0009	STUD	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314
0020	HEAVY HEX NUT	A194 7M	1315	A194 7M	1315	A194 7M	1315	A194 7M	1315	A194 7M	1315
0110	SHCS	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314
BAL-SPR-9mm	SEAT SPRING	X-750	1401	X-750	1401	X-750	1401	X-750	1401	X-750	1401
0006	DOWEL PIN	304SS	1205	304SS	1205	304SS	1205	304SS	1205	304SS	1205
0038	GREASE FITTING	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0028	GREASE FITTING, GBH	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0030	NPT PLUG	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0029	VENT FITTING	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0031	BALL CHECK FTG	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0025	KEY	1045 or equal	1314	1045 or equal	1314	1045 or equal	1314	1045 or equal	1314	1045 or equal	1314
BALXXXXBP01	BODY PIN	A105	1101	A105	1101	A105	1101	A105	1101	A105	1101
BALXXXXLL	LIFT LUG	A36	1122	A36	1122	A36	1122	A36	1122	A36	1122
BALXXXXFT	VALVE FOOT	A36	1122	A36	1122	A36	1122	A36	1122	A36	1122
BALXXXXBL01	LANTERN RING	PEEK	2020	PEEK	2020	PEEK	2020	PEEK	2020	PEEK	2020
		METAL SEAT									
BALXXXXCM1	BALL	A182 F6A CL. 2 + T.C.	1224/3002	A182 F6A CL. 2 + T.C.	1224/3002	A182 F316 + T.C.	1201/3002				
BAL0406BDM1	SEAT	A182 F6A CL. 2 + ST. 6	1224/3004	A182 F6A CL. 2 + ST. 6	1224/3004	A182 F316 + ST. 6	1201/3004				

MASTER MATERIAL LIST

2"-6"

DOC	BAL-6D-2-6-600-MTRL-LF2	
DATE	2024-10-16	
REV	3	
BY	JM	2024-10-16
APPR.		

VALVE TYPE: **3-PC TRUNNION BALL VALVE 6D**

600 ANSI

PART DESCRIPTION		ENP TRIM LF2 Body, ENP Trim, 410 Stem BAL-XXXX-1215////15/C/S		410 GRADE TRIM LF2 Body, 410 Trim, 410 Stem BAL-XXXX-1241////41/C/S		316 GRADE TRIM LF2 Body, 316 Trim, 316 Stem BAL-XXXX-1236////36/F/S		17-4 TRIM LF2 Body, 17-4 TRIM, 17-4 STEM BAL-XXXX-1217////17/D/S		DUPLEX TRIM LF2 Body, DUPLEX TRIM BAL-XXXX-1251////51/G/S	
NEW TRIM CODE		LE		L4		L3		L7		LD	
PART NUMBER	PART NAME	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION
BALXXXXBB01	BODY	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102
BALXXXXBC01	BALL	A350 LF2 + ENP	1102 / 3001	A182 F6A CL. 2	1224	A182 F316	1201	17-4 PH	1254	F51 Duplex	1245
BALXXXXBAR1	ADAPTER	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102
BALXXXXBD01	SEAT	A350 LF2 + ENP	1102 / 3001	A182 F6A CL. 2	1224	A182 F316	1201	17-4 PH	1283	F51 Duplex	1245
BALXXXXBG01	STEM	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224	Duplex A276	1204	17-4 PH	1283	F51 Duplex	1245
BALXXXXBE01	SEAT INSERT	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE
BALXXXXBH01	GLAND	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001
BALXXXXBZ01	GLAND RING	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224
BALXXXXBJ01	MOUNTING PLATE	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102
BALXXXXBK10	TRUNNION PLATE	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001
BALXXXXBK01	TRUNNION	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001
BALXXXXBR01	BEARING	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012
BALXXXXBR02	BEARING	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012
BALXXXXBR03	THRUST WASHER	DEVLON	2029	DEVLON	2029	DEVLON	2029	DEVLON	2029	DEVLON	2029
BALXXXXBR04	SUPPORT BEARING	DEVLON	2029	DEVLON	2029	DEVLON	2029	DEVLON	2029	DEVLON	2029
0001	O-RING	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE
BALXXXXGSKX	GASKET	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050
005125	GRAPHOIL ROPE	GRAPHOIL	2039	GRAPHOIL	2039	GRAPHOIL	2039	GRAPHOIL	2039	GRAPHOIL	2039
0009	STUD	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314
0020	HEAVY HEX NUT	A194 7M	1315	A194 7M	1315	A194 7M	1315	A194 7M	1315	A194 7M	1315
0110	SHCS	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314
BAL-SPR-9mm	SEAT SPRING	X-750	1401	X-750	1401	X-750	1401	X-750	1401	X-750	1401
0006	DOWEL PIN	304SS	1205	304SS	1205	304SS	1205	304SS	1205	304SS	1205
0038	GREASE FITTING	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0028	GREASE FITTING, GBH	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0030	NPT PLUG	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0029	VENT FITTING	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0031	BALL CHECK FTG	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0025	KEY	1045 or equal	1314	1045 or equal	1314	1045 or equal	1314	1045 or equal	1314	1045 or equal	1314
BALXXXXBP01	BODY PIN	A105	1101	A105	1101	A105	1101	A105	1101	A105	1101
BALXXXXBZ11	LOCK PLATE	A105 or equal	1101	A105 or equal	1101	A105 or equal	1101	A105 or equal	1101	A105 or equal	1101
BAL-LAR	LEVER	A105 or equal	1101	A105 or equal	1101	A105 or equal	1101	A105 or equal	1101	A105 or equal	1101
BALXXXXLL	LIFT LUG	A36	1122	A36	1122	A36	1122	A36	1122	A36	1122
BALXXXXFT	VALVE FOOT	A36	1122	A36	1122	A36	1122	A36	1122	A36	1122
BALXXXXBL01	LANTERN RING	PEEK	2020	PEEK	2020	PEEK	2020	PEEK	2020	PEEK	2020
					METAL SEAT						
BALXXXXCM1	BALL	A182 F6A CL. 2 + T.C.	1224/3002	A182 F6A CL. 2 + T.C.	1224/3002	A182 F316 + T.C.	1201/3002				
BAL0406BDM1	SEAT	A182 F6A CL. 2 + ST. 6	1224/3004	A182 F6A CL. 2 + ST. 6	1224/3004	A182 F316 + ST. 6	1201/3004				

MASTER MATERIAL LIST

8"-24"

600 ANSI

DOC	BAL-6D-8-24-600-MTRL-LF2
DATE	2024-10-16
REV	3
BY	JM 2024-10-16
APPR.	

VALVE TYPE: **3-PC TRUNNION BALL VALVE 6D**

PART DESCRIPTION		ENP TRIM		410 GRADE TRIM		316 GRADE TRIM		17-4 TRIM		DUPLEX TRIM	
		LF2 Body, ENP Trim, 410 Stem		LF2 Body, 410 Trim, 410 Stem		LF2 Body, 316 Trim, 316 Stem		LF2 Body, 17-4 TRIM, 17-4 STEM		LF2 Body, DUPLEX TRIM	
		BAL-XXXX-1215////15/C/S		BAL-XXXX-1241////41/C/S		BAL-XXXX-1236////36/G/S		BAL-XXXX-1217////17/D/S		BAL-XXXX-1251////51/G/S	
NEW TRIM CODE		LE		L4		L3		L7		LD	
PART NUMBER	PART NAME	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION
BALXXXXBB01	BODY	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102
BALXXXXBC01	BALL	A350 LF2 + ENP	1102 / 3001	A182 F6A CL. 2	1224	A182 F316	1201	17-4 PH	1254	F51 Duplex	1245
BALXXXXBAR1	ADAPTER	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102
BALXXXXBD01	SEAT	A350 LF2 + ENP	1102 / 3001	A182 F6A CL. 2	1224	A182 F316	1201	17-4 PH	1283	F51 Duplex	1245
BALXXXXBG01	STEM	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224	Duplex A276	1204	17-4 PH	1283	F51 Duplex	1245
BALXXXXBE01	SEAT INSERT	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE
BALXXXXBH01	GLAND	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001
BALXXXXBZ01	GLAND RING	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224
BALXXXXBJ01	MOUNTING PLATE	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102
BALXXXXBK10	TRUNNION PLATE	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001
BALXXXXBK01	TRUNNION	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001
BALXXXXBR01	BEARING	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012
BALXXXXBR02	BEARING	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012
BALXXXXBR03	THRUST WASHER	DEVLON	2029	DEVLON	2029	DEVLON	2029	DEVLON	2029	DEVLON	2029
BALXXXXBR04	SUPPORT BEARING	DEVLON	2029	DEVLON	2029	DEVLON	2029	DEVLON	2029	DEVLON	2029
0001	O-RING	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE
BALXXXXGSKX	GASKET	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050
005125	GRAPHOIL ROPE	GRAPHOIL	2039	GRAPHOIL	2039	GRAPHOIL	2039	GRAPHOIL	2039	GRAPHOIL	2039
0009	STUD	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314
0020	HEAVY HEX NUT	A194 7M	1315	A194 7M	1315	A194 7M	1315	A194 7M	1315	A194 7M	1315
0110	SHCS	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314
BAL-SPR-9mm	SEAT SPRING	X-750	1401	X-750	1401	X-750	1401	X-750	1401	X-750	1401
0006	DOWEL PIN	304SS	1205	304SS	1205	304SS	1205	304SS	1205	304SS	1205
0038	GREASE FITTING	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0028	GREASE FITTING, GBH	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0030	NPT PLUG	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0029	VENT FITTING	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0031	BALL CHECK FTG	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0025	KEY	1045 or equal	1314	1045 or equal	1314	1045 or equal	1314	1045 or equal	1314	1045 or equal	1314
BALXXXXBP01	BODY PIN	A105	1101	A105	1101	A105	1101	A105	1101	A105	1101
BALXXXXLL	LIFT LUG	A36	1122	A36	1122	A36	1122	A36	1122	A36	1122
BALXXXXFT	VALVE FOOT	A36	1122	A36	1122	A36	1122	A36	1122	A36	1122
BALXXXXBL01	LANTERN RING	PEEK	2020	PEEK	2020	PEEK	2020	PEEK	2020	PEEK	2020
METAL SEAT											
BALXXXXCM1	BALL	A182 F6A CL. 2 + T.C.	1224/3002	A182 F6A CL. 2 + T.C.	1224/3002	A182 F316 + T.C.	1201/3002				
BAL0406BDM1	SEAT	A182 F6A CL. 2 + ST. 6	1224/3004	A182 F6A CL. 2 + ST. 6	1224/3004	A182 F316 + ST. 6	1201/3004				

MASTER MATERIAL LIST

2"-4"

DOC	BAL-6D-2-4-900-MTRL-LF2
DATE	2024-10-16
REV	3
BY	JM 2024-10-16
APPR.	

VALVE TYPE: **3-PC TRUNNION BALL VALVE 6D**

900 ANSI

PART DESCRIPTION		ENP TRIM		410 GRADE TRIM		316 GRADE TRIM		17-4 TRIM		DUPLEX TRIM	
		LF2 Body, ENP Trim, 410 Stem		LF2 Body, 410 Trim, 410 Stem		LF2 Body, 316 Trim, 316 Stem		LF2 Body, 17-4 TRIM, 17-4 STEM		LF2 Body, DUPLEX TRIM	
		BAL-XXXX-1215////15/C/S		BAL-XXXX-1241////41/C/S		BAL-XXXX-1236////36/G/S		BAL-XXXX-1217////17/D/S		BAL-XXXX-1251////51/G/S	
NEW TRIM CODE		LE		L4		L3		L7		LD	
PART NUMBER	PART NAME	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION
BALXXXXBB01	BODY	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102
BALXXXXBC01	BALL	A350 LF2 + ENP	1102 / 3001	A182 F6A CL. 2	1224	A182 F316	1201	17-4 PH	1254	F51 Duplex	1245
BALXXXXBAR1	ADAPTER	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102
BALXXXXBD01	SEAT	A350 LF2 + ENP	1102 / 3001	A182 F6A CL. 2	1224	A182 F316	1201	17-4 PH	1283	F51 Duplex	1245
BALXXXXBG01	STEM	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224	Duplex A276	1204	17-4 PH	1283	F51 Duplex	1245
BALXXXXBE01	SEAT INSERT	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE
BALXXXXBH01	GLAND	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001
BALXXXXBZ01	GLAND RING	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224
BALXXXXBJ01	MOUNTING PLATE	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102
BALXXXXBK10	TRUNNION PLATE	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001
BALXXXXBK01	TRUNNION	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001
BALXXXXBR01	BEARING	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012
BALXXXXBR02	BEARING	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012
BALXXXXBR03	THRUST WASHER	DEVLON	2029	DEVLON	2029	DEVLON	2029	DEVLON	2029	DEVLON	2029
BALXXXXBR04	SUPPORT BEARING	DEVLON	2029	DEVLON	2029	DEVLON	2029	DEVLON	2029	DEVLON	2029
0001	O-RING	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE
BALXXXXGSKX	GASKET	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050
005125	GRAPHOIL ROPE	GRAPHOIL	2039	GRAPHOIL	2039	GRAPHOIL	2039	GRAPHOIL	2039	GRAPHOIL	2039
0009	STUD	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314
0020	HEAVY HEX NUT	A194 7M	1315	A194 7M	1315	A194 7M	1315	A194 7M	1315	A194 7M	1315
0110	SHCS	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314
BAL-SPR-9mm	SEAT SPRING	X-750	1401	X-750	1401	X-750	1401	X-750	1401	X-750	1401
0006	DOWEL PIN	304SS	1205	304SS	1205	304SS	1205	304SS	1205	304SS	1205
0038	GREASE FITTING	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0028	GREASE FITTING, GBH	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0030	NPT PLUG	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0029	VENT FITTING	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0031	BALL CHECK FTG	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0025	KEY	1045 or equal	1314	1045 or equal	1314	1045 or equal	1314	1045 or equal	1314	1045 or equal	1314
BALXXXXBP01	BODY PIN	A105	1101	A105	1101	A105	1101	A105	1101	A105	1101
BALXXXXBZ11	LOCK PLATE	A105 or equal	1101	A105 or equal	1101	A105 or equal	1101	A105 or equal	1101	A105 or equal	1101
BAL-LAR	LEVER	A105 or equal	1101	A105 or equal	1101	A105 or equal	1101	A105 or equal	1101	A105 or equal	1101
BALXXXXLL	LIFT LUG	A36	1122	A36	1122	A36	1122	A36	1122	A36	1122
BALXXXXFT	VALVE FOOT	A36	1122	A36	1122	A36	1122	A36	1122	A36	1122
BALXXXXBL01	LANTERN RING	PEEK	2020	PEEK	2020	PEEK	2020	PEEK	2020	PEEK	2020
METAL SEAT											
BALXXXXCM1	BALL	A182 F6A CL. 2 + T.C.	1224/3002	A182 F6A CL. 2 + T.C.	1224/3002	A182 F316 + T.C.	1201/3002				
BAL0406BDM1	SEAT	A182 F6A CL. 2 + ST. 6	1224/3004	A182 F6A CL. 2 + ST. 6	1224/3004	A182 F316 + ST. 6	1201/3004				

MASTER MATERIAL LIST

6"-24"

900 ANSI

DOC	BAL-6D-6-24-900-MTRL-LF2	
DATE	2024-10-16	
REV	3	
BY	JM	2024-10-16
APPR.		

VALVE TYPE: **3-PC TRUNNION BALL VALVE 6D**

PART DESCRIPTION		410 GRADE TRIM		17-4 TRIM		DUPLEX TRIM	
		LF2 Body, 410 Trim, 410 Stem		LF2 Body, 17-4 TRIM, 17-4 STEM		LF2 Body, DUPLEX TRIM	
		BAL-XXXX-1241////41/C/S		BAL-XXXX-1217////17/D/S		BAL-XXXX-1251////51/G/S	
NEW TRIM CODE		L4		L7		LD	
PART NUMBER	PART NAME	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION
BALXXXXBB01	BODY	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102
BALXXXXBC01	BALL	A182 F6A CL. 2	1224	17-4 PH	1254	F51 Duplex	1245
BALXXXXBAR1	ADAPTER	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102
BALXXXXBD01	SEAT	A182 F6A CL. 2	1224	17-4 PH	1283	F51 Duplex	1245
BALXXXXBG01	STEM	A182 F6A CL. 2	1224	17-4 PH	1283	F51 Duplex	1245
BALXXXXBE01	SEAT INSERT	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE
BALXXXXBH01	GLAND	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001
BALXXXXBZ01	GLAND RING	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224
BALXXXXBJ01	MOUNTING PLATE	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102
BALXXXXBK10	TRUNNION PLATE	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001
BALXXXXBK01	TRUNNION	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001
BALXXXXBR01	BEARING	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012
BALXXXXBR02	BEARING	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012
BALXXXXBR03	THRUST WASHER	DEVLON	2029	DEVLON	2029	DEVLON	2029
BALXXXXBR04	SUPPORT BEARING	DEVLON	2029	DEVLON	2029	DEVLON	2029
0001	O-RING	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE
BALXXXXGSKX	GASKET	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050
005125	GRAPHOIL ROPE	GRAPHOIL	2039	GRAPHOIL	2039	GRAPHOIL	2039
0009	STUD	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314
0020	HEAVY HEX NUT	A194 7M	1315	A194 7M	1315	A194 7M	1315
0110	SHCS	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314
BAL-SPR-9mm	SEAT SPRING	X-750	1401	X-750	1401	X-750	1401
0006	DOWEL PIN	304SS	1205	304SS	1205	304SS	1205
0038	GREASE FITTING	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0028	GREASE FITTING, GBH	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0030	NPT PLUG	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0029	VENT FITTING	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0031	BALL CHECK FTG	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0025	KEY	1045 or equal	1314	1045 or equal	1314	1045 or equal	1314
BALXXXXBP01	BODY PIN	A105	1101	A105	1101	A105	1101
BALXXXXLL	LIFT LUG	A36	1122	A36	1122	A36	1122
BALXXXXFT	VALVE FOOT	A36	1122	A36	1122	A36	1122
BALXXXXBL01	LANTERN RING	PEEK	2020	PEEK	2020	PEEK	2020
METAL SEAT							
BALXXXXCM1	BALL	A182 F6A CL. 2 + T.C.	1224/3002				
BAL0406BDM1	SEAT	A182 F6A CL. 2 + ST. 6	1224/3004				

SCV	**MASTER MATERIAL LIST**		**2"-10"**		DOC	BAL-6D-2-10-1500-MTRL-LF2	
					DATE	2024-10-16	
					REV	3	
VALVE TYPE:	**3-PC TRUNNION BALL VALVE 6D**		**1500 ANSI**		BY	JM	2024-10-16
					APPR.		

PART DESCRIPTION		**410 GRADE TRIM**		**17-4 TRIM**		**DUPLEX TRIM**	
		LF2 Body, 410 Trim, 410 Stem		LF2 Body, 17-4 TRIM, 17-4 STEM		LF2 Body, DUPLEX TRIM	
		BAL-XXXX-1241////41/C/S		BAL-XXXX-1217////17/D/S		BAL-XXXX-1251////51/G/S	
NEW TRIM CODE		**L4**		**L7**		**LD**	
PART NUMBER	PART NAME	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION
BALXXXXBB01	BODY	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102
BALXXXXBC01	BALL	A182 F6A CL. 2	1224	17-4 PH	1254	F51 Duplex	1245
BALXXXXBAR1	ADAPTER	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102
BALXXXXBD01	SEAT	A182 F6A CL. 2	1224	17-4 PH	1283	F51 Duplex	1245
BALXXXXBG01	STEM	A182 F6A CL. 2	1224	17-4 PH	1283	F51 Duplex	1245
BALXXXXBE01	SEAT INSERT	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE
BALXXXXBH01	GLAND	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001
BALXXXXBZ01	GLAND RING	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224
BALXXXXBJ01	MOUNTING PLATE	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102
BALXXXXBK10	TRUNNION PLATE	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001
BALXXXXBK01	TRUNNION	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001
BALXXXXBR01	BEARING	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012
BALXXXXBR02	BEARING	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012
BALXXXXBR03	THRUST WASHER	DEVLON	2029	DEVLON	2029	DEVLON	2029
BALXXXXBR04	SUPPORT BEARING	DEVLON	2029	DEVLON	2029	DEVLON	2029
0001	O-RING	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE
BALXXXXGSKX	GASKET	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050
005125	GRAPHOIL ROPE	GRAPHOIL	2039	GRAPHOIL	2039	GRAPHOIL	2039
0009	STUD	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314
0020	HEAVY HEX NUT	A194 7M	1315	A194 7M	1315	A194 7M	1315
0110	SHCS	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314
BAL-SPR-9mm	SEAT SPRING	X-750	1401	X-750	1401	X-750	1401
0006	DOWEL PIN	304SS	1205	304SS	1205	304SS	1205
0038	GREASE FITTING	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0028	GREASE FITTING, GBH	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0030	NPT PLUG	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0029	VENT FITTING	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0031	BALL CHECK FTG	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0025	KEY	1045 or equal	1314	1045 or equal	1314	1045 or equal	1314
BALXXXXBP01	BODY PIN	A105	1101	A105	1101	A105	1101
BALXXXXBBUXX	BACK-UP RING	PEEK	2008	PEEK	2008	PEEK	2008
BALXXXXLL	LIFT LUG	A36	1122	A36	1122	A36	1122
BALXXXXFT	VALVE FOOT	A36	1122	A36	1122	A36	1122
BALXXXXBL01	LANTERN RING	PEEK	2020	PEEK	2020	PEEK	2020
METAL SEAT							
BALXXXXCM1	BALL	A182 F6A CL. 2 + T.C.	1224/3002	A182 F316 + T.C.	1201/3002		
BAL0406BDM1	SEAT	A182 F6A CL. 2 + ST. 6	1224/3004	A182 F316 + ST. 6	1201/3004		

MASTER MATERIAL LIST

		12"-16"			DOC	BAL-6D-12-16-1500-MTRL-LF2	
					DATE	2024-10-16	
					REV	3	
VALVE TYPE:	3-PC TRUNNION BALL VALVE 6D	1500 ANSI			BY	JM	2024-10-16
					APPR.		

PART DESCRIPTION		410 GRADE TRIM LF2 Body, 410 Trim, 410 Stem BAL-XXXX-1241////41/C/S		17-4 TRIM LF2 Body, 17-4 TRIM, 17-4 STEM BAL-XXXX-1217////17/D/S		DUPLEX TRIM LF2 Body, DUPLEX TRIM BAL-XXXX-1251////51/G/S	
NEW TRIM CODE		L4		L7		LD	
PART NUMBER	PART NAME	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION
BALXXXXBB01	BODY	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102
BALXXXXBC01	BALL	A182 F6A CL. 2	1224	17-4 PH	1254	F51 Duplex	1245
BALXXXXBAR1	ADAPTER	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102
BALXXXXBD01	SEAT	A182 F6A CL. 2	1224	17-4 PH	1283	F51 Duplex	1245
BALXXXXBG01	STEM	A182 F6A CL. 2	1224	17-4 PH	1283	F51 Duplex	1245
BALXXXXBE01	SEAT INSERT	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE
BALXXXXBH01	GLAND	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001
BALXXXXBZ01	GLAND RING	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224
BALXXXXBJ01	MOUNTING PLATE	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102
BALXXXXBK10	TRUNNION PLATE	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001
BALXXXXBK01	TRUNNION	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001
BALXXXXBR01	BEARING	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012
BALXXXXBR02	BEARING	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012
BALXXXXBR03	THRUST WASHER	DEVLON	2029	DEVLON	2029	DEVLON	2029
BALXXXXBR04	SUPPORT BEARING	DEVLON	2029	DEVLON	2029	DEVLON	2029
0001	O-RING	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE
BALXXXXGSKX	GASKET	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050
005125	GRAPHOIL ROPE	GRAPHOIL	2039	GRAPHOIL	2039	GRAPHOIL	2039
0009	STUD	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314
0020	HEAVY HEX NUT	A194 7M	1315	A194 7M	1315	A194 7M	1315
0110	SHCS	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314
BAL-SPR-9mm	SEAT SPRING	X-750	1401	X-750	1401	X-750	1401
0006	DOWEL PIN	304SS	1205	304SS	1205	304SS	1205
0038	GREASE FITTING	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0028	GREASE FITTING, GBH	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0030	NPT PLUG	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0029	VENT FITTING	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0031	BALL CHECK FTG	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0025	KEY	1045 or equal	1314	1045 or equal	1314	1045 or equal	1314
BALXXXXBP01	BODY PIN	A105	1101	A105	1101	A105	1101
BALXXXXBBUXX	BACK-UP RING	PEEK	2008	PEEK	2008	PEEK	2008
BALXXXXLL	LIFT LUG	A36	1122	A36	1122	A36	1122
BALXXXXFT	VALVE FOOT	A36	1122	A36	1122	A36	1122
BALXXXXBL01	LANTERN RING	PEEK	2020	PEEK	2020	PEEK	2020
METAL SEAT							
BALXXXXCM1	BALL	A182 F6A CL. 2 + T.C.	1224/3002				
BAL0406BDM1	SEAT	A182 F6A CL. 2 + ST. 6	1224/3004				

MASTER MATERIAL LIST

2"-6"

DOC	BAL-6D-2-6-2500-MTRL-LF2	
DATE	2024-10-16	
REV	3	
BY	JM	2024-10-16
APPR.		

VALVE TYPE: **3-PC TRUNNION BALL VALVE 6D**

2500 ANSI

PART DESCRIPTION		410 GRADE TRIM		17-4 TRIM		DUPLEX TRIM	
		LF2 Body, 410 Trim, 410 Stem		LF2 Body, 17-4 TRIM, 17-4 STEM		LF2 Body, DUPLEX TRIM	
		BAL-XXXX-1241////41/C/S		BAL-XXXX-1217////17/D/S		BAL-XXXX-1251////51/G/S	
NEW TRIM CODE		L4		L7		LD	
PART NUMBER	PART NAME	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION
BALXXXXBB01	BODY	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102
BALXXXXBC01	BALL	A182 F6A CL. 2	1224	17-4 PH	1254	F51 Duplex	1245
BALXXXXBAR1	ADAPTER	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102
BALXXXXBD01	SEAT	A182 F6A CL. 2	1224	17-4 PH	1283	F51 Duplex	1245
BALXXXXBG01	STEM	A182 F6A CL. 2	1224	17-4 PH	1283	F51 Duplex	1245
BALXXXXBE01	SEAT INSERT	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE
BALXXXXBH01	GLAND	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001
BALXXXXBZ01	GLAND RING	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224
BALXXXXBJ01	MOUNTING PLATE	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102
BALXXXXBK10	TRUNNION PLATE	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001
BALXXXXBK01	TRUNNION	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001
BALXXXXBR01	BEARING	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012
BALXXXXBR02	BEARING	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012
BALXXXXBR03	THRUST WASHER	PEEK	2020	PEEK	2020	PEEK	2020
BALXXXXBR04	SUPPORT BEARING	PEEK	2020	PEEK	2020	PEEK	2020
0001	O-RING	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE
BALXXXXGSKX	GASKET	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050
005125	GRAPHOIL ROPE	GRAPHOIL	2039	GRAPHOIL	2039	GRAPHOIL	2039
0009	STUD	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314
0020	HEAVY HEX NUT	A194 7M	1315	A194 7M	1315	A194 7M	1315
0110	SHCS	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314
BAL-SPR-9mm	SEAT SPRING	X-750	1401	X-750	1401	X-750	1401
0006	DOWEL PIN	304SS	1205	304SS	1205	304SS	1205
0038	GREASE FITTING	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0028	GREASE FITTING, GBH	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0030	NPT PLUG	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0029	VENT FITTING	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0031	BALL CHECK FTG	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0025	KEY	1045 or equal	1314	1045 or equal	1314	1045 or equal	1314
BALXXXXBP01	BODY PIN	A105	1101	A105	1101	A105	1101
BALXXXXBBUXX	BACK-UP RING	PEEK	2008	PEEK	2008	PEEK	2008
BALXXXXBZ11	LOCK PLATE	A105 or equal	1101	A105 or equal	1101	A105 or equal	1101
BAL-LAR	LEVER	A105 or equal	1101	A105 or equal	1101	A105 or equal	1101
BALXXXXLL	LIFT LUG	A36	1122	A36	1122	A36	1122
BALXXXXFT	VALVE FOOT	A36	1122	A36	1122	A36	1122
BALXXXXBL01	LANTERN RING	PEEK	2020	PEEK	2020	PEEK	2020
METAL SEAT							
BALXXXXCM1	BALL	A182 F6A CL. 2 + T.C.	1224/3002				
BAL0406BDM1	SEAT	A182 F6A CL. 2 + ST. 6	1224/3004				

MASTER MATERIAL LIST

		DOC	BAL-6D-8-12-2500-MTRL-LF2
		DATE	2024-10-16
		REV	3
VALVE TYPE:	3-PC TRUNNION BALL VALVE 6D	BY	JM 2024-10-16
		APPR.	

8"-12"

2500 ANSI

PART DESCRIPTION		410 GRADE TRIM		17-4 TRIM		DUPLEX TRIM	
		LF2 Body, 410 Trim, 410 Stem		LF2 Body, 17-4 TRIM, 17-4 STEM		LF2 Body, DUPLEX TRIM	
		BAL-XXXX-1241////41/C/S		BAL-XXXX-1217////17/D/S		BAL-XXXX-1251////51/G/S	
NEW TRIM CODE		L4		L7		LD	
PART NUMBER	PART NAME	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION	MATERIAL	SCV MATERIAL SPECIFICATION
BALXXXXBB01	BODY	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102
BALXXXXBC01	BALL	A182 F6A CL. 2	1224	17-4 PH	1254	F51 Duplex	1245
BALXXXXBAR1	ADAPTER	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102
BALXXXXBD01	SEAT	A182 F6A CL. 2	1224	17-4 PH	1283	F51 Duplex	1245
BALXXXXBG01	STEM	A182 F6A CL. 2	1224	17-4 PH	1283	F51 Duplex	1245
BALXXXXBE01	SEAT INSERT	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE
BALXXXXBH01	GLAND	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001
BALXXXXBZ01	GLAND RING	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224	A182 F6A CL. 2	1224
BALXXXXBJ01	MOUNTING PLATE	A350 LF2	1102	A350 LF2	1102	A350 LF2	1102
BALXXXXBK10	TRUNNION PLATE	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001
BALXXXXBK01	TRUNNION	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001	A350 LF2 + ENP	1102 / 3001
BALXXXXBR01	BEARING	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012
BALXXXXBR02	BEARING	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012	304SS/PTFE BACKED	2012
BALXXXXBR03	THRUST WASHER	PEEK	2020	PEEK	2020	PEEK	2020
BALXXXXBR04	SUPPORT BEARING	PEEK	2020	PEEK	2020	PEEK	2020
0001	O-RING	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE	CUSTOMER	PREFERENCE
BALXXXXGSKX	GASKET	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050	SS/GRAPHITE- GHE	2050
005125	GRAPHOIL ROPE	GRAPHOIL	2039	GRAPHOIL	2039	GRAPHOIL	2039
0009	STUD	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314
0020	HEAVY HEX NUT	A194 7M	1315	A194 7M	1315	A194 7M	1315
0110	SHCS	A320 L7M	1314	A320 L7M	1314	A320 L7M	1314
BAL-SPR-9mm	SEAT SPRING	X-750	1401	X-750	1401	X-750	1401
0006	DOWEL PIN	304SS	1205	304SS	1205	304SS	1205
0038	GREASE FITTING	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0028	GREASE FITTING, GBH	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0030	NPT PLUG	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0029	VENT FITTING	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0031	BALL CHECK FTG	316SS	PER MFR	316SS	PER MFR	316SS	PER MFR
0025	KEY	1045 or equal	1314	1045 or equal	1314	1045 or equal	1314
BALXXXXBP01	BODY PIN	A105	1101	A105	1101	A105	1101
BALXXXXBBUXX	BACK-UP RING	PEEK	2008	PEEK	2008	PEEK	2008
BALXXXXLL	LIFT LUG	A36	1122	A36	1122	A36	1122
BALXXXXFT	VALVE FOOT	A36	1122	A36	1122	A36	1122
BALXXXXBL01	LANTERN RING	PEEK	2020	PEEK	2020	PEEK	2020
METAL SEAT							
BALXXXXCM1	BALL	A182 F6A CL. 2 + T.C.	1224/3002				
BAL0406BDM1	SEAT	A182 F6A CL. 2 + ST. 6	1224/3004				

PARTS LIST

DOC	TCG4001FRB-PL	
DATE	2021-03-11	
REV.	3	
BY	AW	2018-01-16
APPR.	JM	2018-01-16

VALVE TYPE: **SLAB GATE VALVE**

VALVE DESCRIPTION: **40" 150# RF**

TCG4001B001RB

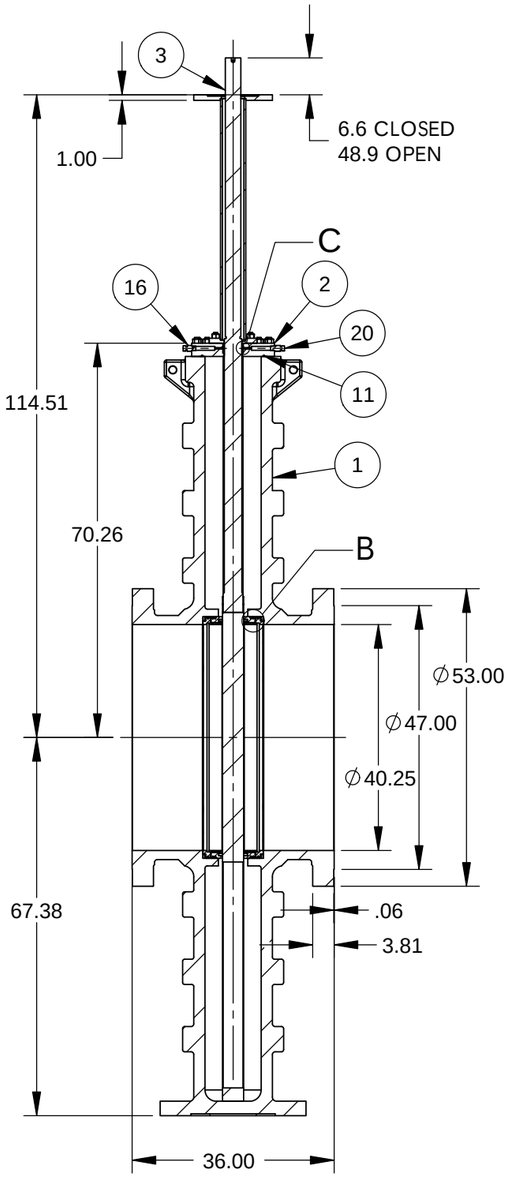
ITEM NO.	QTY.	REV.	PART NUMBER	DESCRIPTION	BASE PART/SIZE/ COMMENT	SOFT GOODS
1	1	1	TCG4001BBR01	BODY	TCG4001BBR1-CAST REV 2	
2	1	1	TCG4001BE01	BONNET		
3	1	1	TCG4001BST1	STEM		
4	1	1	TCG4001BC01	GATE		
5	2	1	TCG4001BR01	SEAT ASSY		
5.1	1	1	TCG4001BD01	SEAT	(QTY X2)	
5.2	1	1	TCG4001BJ01	SEAT INSERT	(QTY X2)	
5.3	3	0	0001-3-4050	O-RING	CUSTOM .210" C.S. x 40.50" I.D. (QTY X2)	X
5.4	1	0	TCG4001SS-WS	WAVESPRING	ILOT 41.19/CLEAR 39.65/W.H. .50"/5300 LBS (QTY X2	
6	1	1	TCG4001BL01	LANTERN RING		
7	1	2	TCG4001BA01	YOKE WELDMENT		
7.1	1	1	TCG4001BA11	YOKE BASE		
7.2	1	1	TCG4001BA13	YOKE TUBE		
7.3	1	1	TCG4001BA12	YOKE TOP		
8	8	0	0009006-XX-026	STUD	3/4-10 UNC x 2.75" L.	
9	36	0	0009006-XX-042	STUD	3/4-10 UNC x 4.25" L.	
10	44	0	20075	HVY HEX NUT	3/4-10 UNC	
11	1	1	0001-TCG-4001	O-RING	CUSTOM PER DWG	
12	1	1	0014-TCG-4001	GASKET	PER DWG	
13	1	X	0018-031-02-131	PACKING	3.125 ID x 3.625 OD x .641" STACK HT., .25" C.S.	
14	1	X	0018-031-02-141	PACKING	3.125 ID x 3.625 OD x .750" STACK HT., .25" C.S.	
15	4	0	28004	GREASE FITTING, GBH	1/2" NPT	X
16	1	0	29004	VENT FITTING	1/2" NPT	X
17	1	0	29010	VENT FITTING	1" NPT	X
18	1	0	0030-100	NPT PLUG	1" NPT	X
19	4	0	31003	BALL CHECK	3/8" NPT	
20	1	0	32004	PKG INJ FITTING	1/2" NPT	
21	1	X	0040-010-030	1" T.O.E. NIPPLE	1" NPT-TBE x 3.00" L	
22	1	0	0039-XX-010	BALL VALVE	1" FNPT x 1" FNPT (RATED 3750 psi MIN)	

PARTS LIST

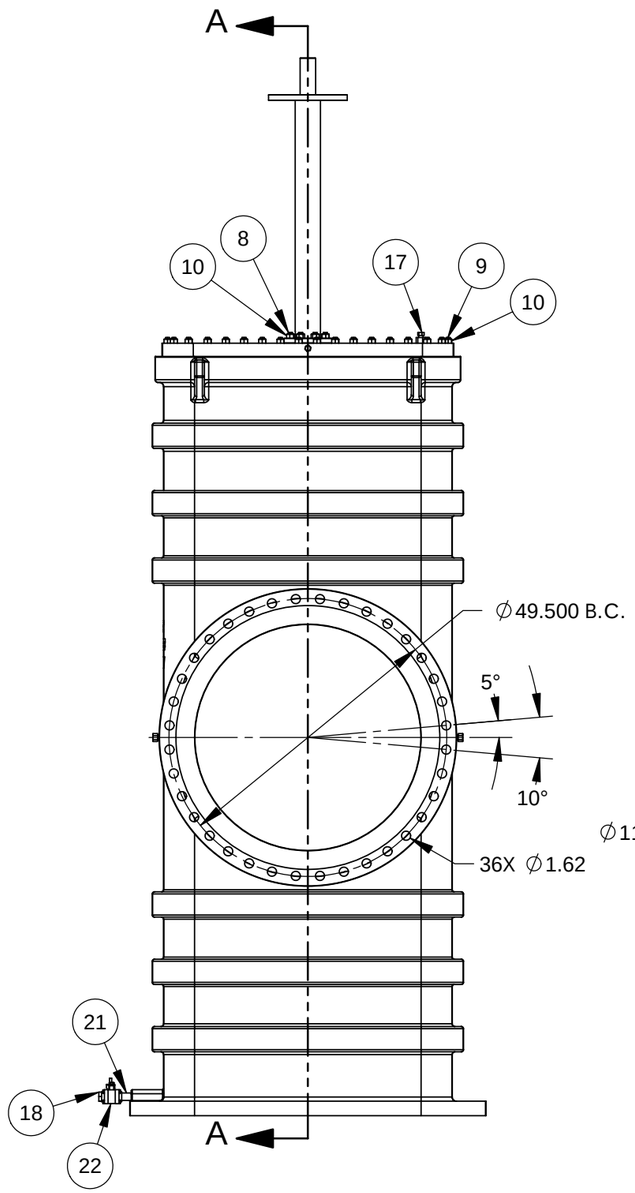
	DOC	TCG4003FRB-PL	
	DATE	2019-01-23	
	REV.	2	
VALVE TYPE: **SLAB GATE VALVE**	BY	AW	2018-01-10
	APPR.	JM	2018-01-10
VALVE DESCRIPTION **40" 300# RF**	**TCG4003B001RB**		

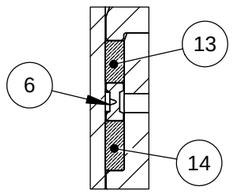
ITEM NO.	QTY.	REV.	PART NUMBER	DESCRIPTION	BASE PART/SIZE/ COMMENT	SOFT GOODS
1	1	1	TCG4003BBR01	BODY	TCG4003BBR1-CAST REV 2	
2	1	1	TCG4003BE01	BONNET		
3	1	1	TCG4003BST1	STEM		
4	1	2	TCG4003BC01	GATE		
5	2	1	TCG4003BR01	SEAT ASSY		
5.1	1	1	TCG4003BD01	SEAT	(QTY X2)	
5.2	1	1	TCG4001BJ01	SEAT INSERT	(QTY X2)	
5.3	3	0	0001-3-4050	O-RING	CUSTOM .210" C.S. x 40.50" I.D. (QTY X2)	X
5.4	1	0	TCG4001SS-WS	WAVESPRING	SMALLEY P/N 36175-55 (QTY X2)	
6	1	1	TCG4003BL01	LANTERN RING		
7	1	1	TCG4003BG01	GLAND		
8	1	2	TCG4003BA01	YOKE WELDMENT		
8.1	1	1	TCG4003BA11	YOKE BASE		
8.2	1	1	TCG4003BA13	YOKE TUBE		
8.3	1	1	TCG4003BA12	YOKE TOP		
9	8	0	0009011-XX-036	STUD	1 1/8-8 UN x 3.75" L	
10	36	0	0009015-XX-076	STUD	1 5/8-8 UN x 7.75" L	
11	8	0	20112	HVY HEX NUT	1 1/8-8 UN	
12	36	0	20163	HVY HEX NUT	1 5/8-8 UN	
13	1	0	0001-3-4475	O-RING	CUSTOM .210" C.S. x 44.75" I.D.	
14	1	X	0014-TCG4003	GASKET	45.25 ID x 46.00 OD x 0.06" NOM.	
15	1	X	0018-034-03-131	PACKING	3.500 ID x 4.250 OD x 1.100" STACK HT., .38" C.S.	X
16	1	X	0018-034-03-141	PACKING	3.500 ID x 4.250 OD x 1.380" STACK HT., .38" C.S.	X
17	4	0	28004	GREASE FITTING, GBH	1/2" NPT	X
18	1	0	29002	VENT FITTING	1/4" NPT	X
19	1	0	29010	VENT FITTING	1" NPT	
20	1	0	0030-100	NPT PLUG	1" NPT	
21	4	0	31003	BALL CHECK	4/8" NPT	
22	1	0	32002	PKG INJ FITTING	1/4" NPT	
23	1	1	TCG4003BZ02	INTERNAL STOP NUT		
24	2	X	0015-04-05	SET SCREW	DOG POINT, 1/2-13UNC x .63" L	
25	1	X	0040-010-030	1" T.O.E. NIPPLE	1" NPT-TBE x 3.00" L	
26	1	0	0039-XX-010	BALL VALVE	1" FNPT x 1" FNPT (RATED 3750 psi MIN)	

LOC	MARKING DATA
1	TCG4201B001RB REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.

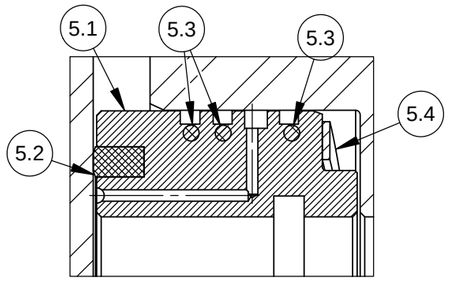


SECTION A-A

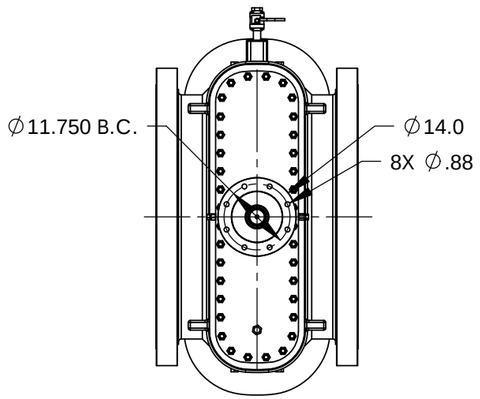




DETAIL C
SCALE 1 : 2



DETAIL B
SCALE 1 : 2



ITEM NO.	QTY.	Rev	PART NUMBER	DESCRIPTION
1	1	2	TCG4201BBR01	BODY
2	1	2	TCG4201BE01	BONNET
3	1	1	TCG4201BST1	STEM
4	1	1	TCG4201BC01	GATE
5	2	1	TCG4201BR01	SEAT ASSY
5.1	1	2	TCG4201BD01	SEAT
5.2	1	1	TCG4201BJ01	SEAT INSERT
5.3	3		0001-3-4225	O-RING
5.4	1		TCG4201SS-WS	WAVESPRING
6	1	0	TCG4201BL01	LANTERN RING
7	1	3	TCG4201BA01	YOKE WELDMENT
7.1	1	1	TCG4201BA11	YOKE BASE
7.2	1	1	TCG4201BA13	YOKE TUBE
7.3	1	2	TCG4201BA12	YOKE TOP
8	8		0009006-XX-026	STUD
9	36		0009006-XX-042	STUD
10	44		0020075	HVY HEX NUT
11	1	1	0001-TCG-4201	O-RING
12	1	1	0014-TCG-4201	GASKET
13	1	X	0018-031-02-131	PACKING
14	1	X	0018-031-02-141	PACKING
15	4		0028004	GREASE FITTING, GBH
16	1		0029004	VENT FITTING
17	1		0029010	VENT FITTING
18	1		0030-100	NPT PLUG
19	4		0031003	BALL CHECK
20	1		0032004	PKG INJ FITTING
21	1	X	0040-010-030	1" T.O.E. NIPPLE
22	1		0039-XX-010	BALL VALVE

FLANGES PER B16.47 - CLASS 150 SERIES A

WEIGHT = 17304 LBS
THREAD = 2.75"-0.40P-0.80L-ACME-2G LH

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	11278	SEE ECN	5-DEC-17	JM	CP
0	X	RELEASED DRAWING	20-NOV-17	JM	CP

REVISION

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SCV VALVE (SCV) ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF SCV IS STRICTLY PROHIBITED.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
.X= ±.030
.XX= ±.015
.XXX= ±.005
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS FINISH
CONCENTRICITY= ±.002 T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

DRAWN	JM	20-DEC-15
CHECKED	JS	20-DEC-15
APPROVED	CP	20-DEC-15
SHEET 1 OF 1		
WEIGHT:		

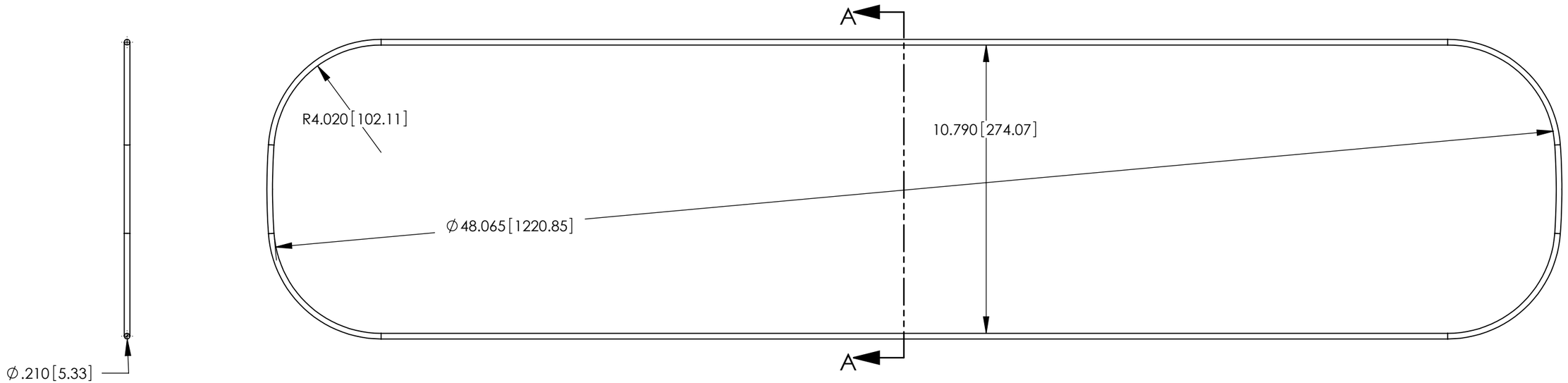
THIRD ANGLE PROJECTION

SCV Valve

DESCRIPTION
42" 150# RF
SLAB VALVE
ASSEMBLY

SIZE	P/N	REV.
B	TCG4201B001RB	1

LOC	MARKING DATA
1	0001-TCG-4201 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.



SECTION A-A

NOTES:
1. MOLD, VULCANIZE or USE ∅ .210"[5.33 mm] CORD 111.3"[2827 mm] ± LONG.

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	20-OCT-17	JM	CP

REVISION

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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES [mm]
TOLERANCES ARE:
.X= ±.030 [0.8]
.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

DRAWN	JM 20-OCT-17
CHECKED	JS 20-OCT-17
APPROVED	CP 20-OCT-17
SHEET 1 OF 1	
WEIGHT:	

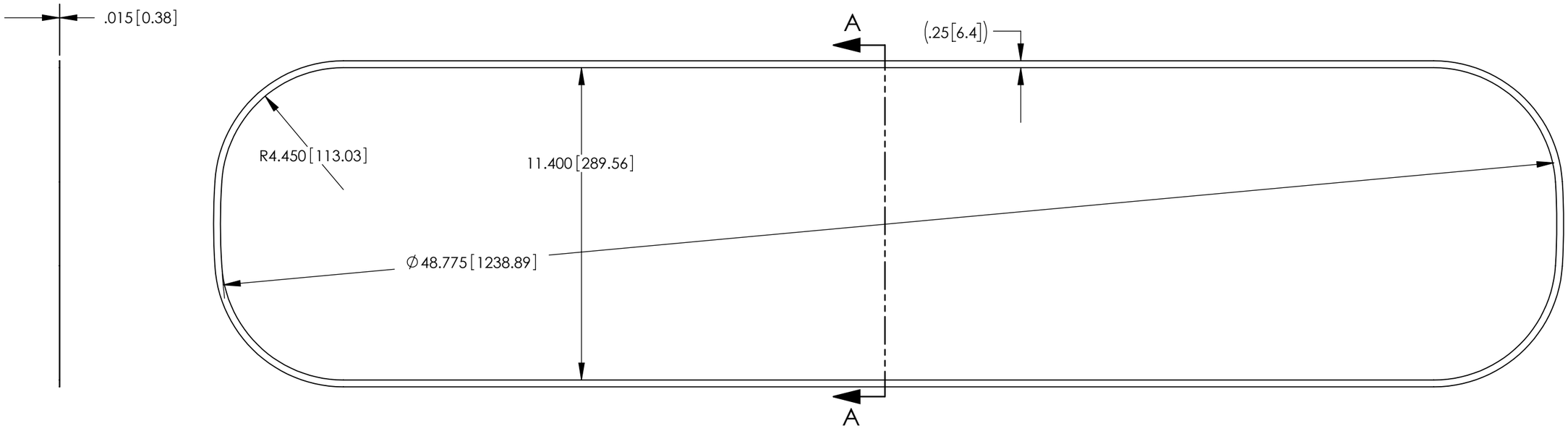
THIRD ANGLE PROJECTION

SCV Valve

DESCRIPTION
42" 150# SLAB GATE
BONNET - O-RING

SIZE B | P/N 0001-TCG-4201 | REV. 1

LOC	MARKING DATA
1	0014-TCG-4201 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.



SECTION A-A

NOTES:
1. 0.015"[0.38 mm] THK. GRAPHOIL TAPE CRINKLED, ADHESIVE BACKED.

1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	20-DEC-15	JM	CP
REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D

REVISION

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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES [mm]
TOLERANCES ARE:
.X= ±.030 [0.8]
.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

DRAWN JM	20-DEC-15
CHECKED JS	20-DEC-15
APPROVED CP	20-DEC-15
SHEET 1 OF 1	
WEIGHT:	THIRD ANGLE PROJECTION

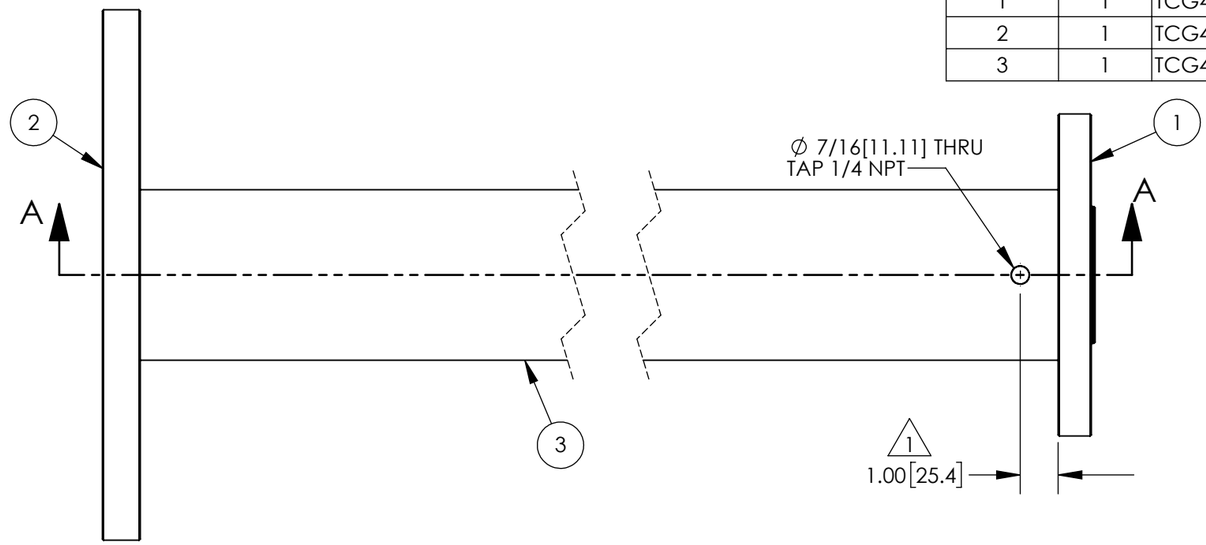
SCV Valve

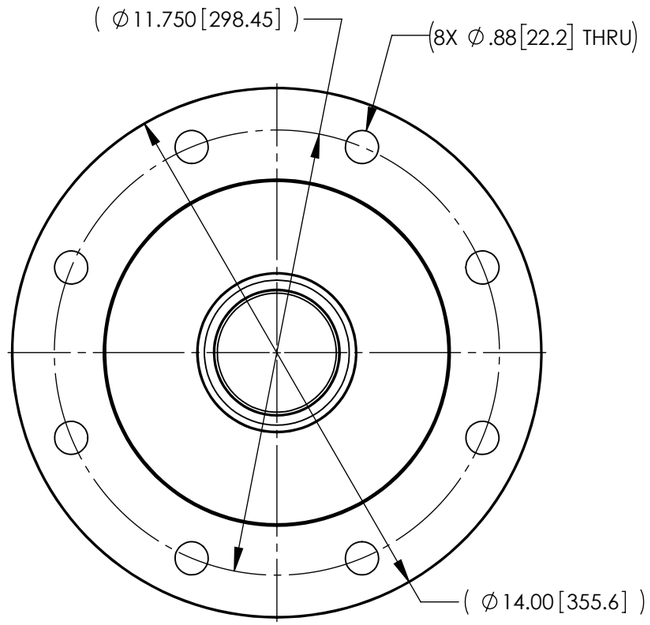
DESCRIPTION
42" 150# SLAB GATE
BONNET - GASKET

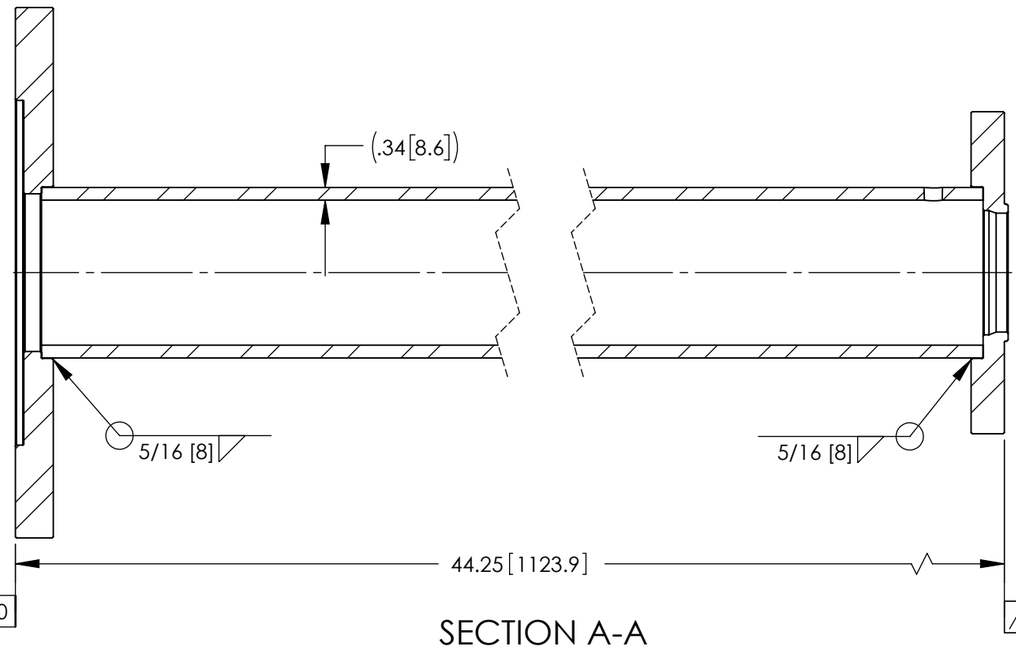
SIZE B | P/N 0014-TCG-4201 | REV. 1

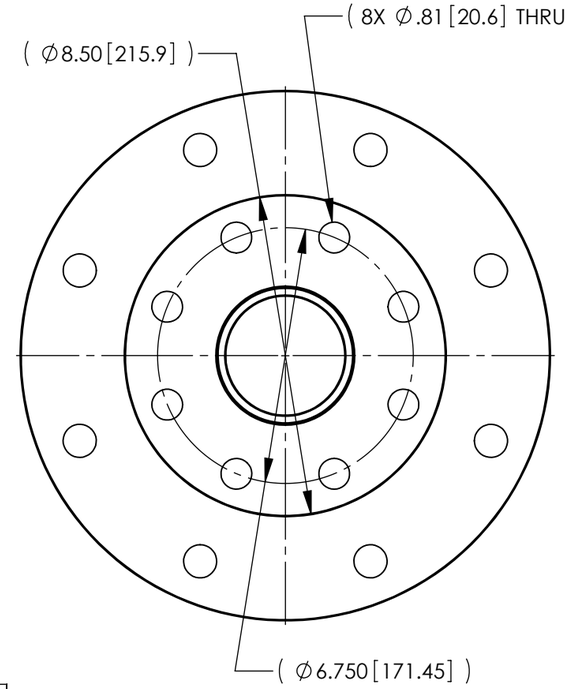
LOC	MARKING DATA
1	TCG4201BA01 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION	Revision
1	1	TCG4201BA11	YOKE BASE	1
2	1	TCG4201BA12	YOKE TOP	2
3	1	TCG4201BA13	YOKE TUBE	1









SECTION A-A

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
3	X	was fa25 / is fa30	10-AUG-19	TM	JM
2	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
1	11304	SEE ECN	06-JUL-18	TM	JM

REVISION

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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES [mm]
TOLERANCES ARE:
.X= ±.030 [0.8]
.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

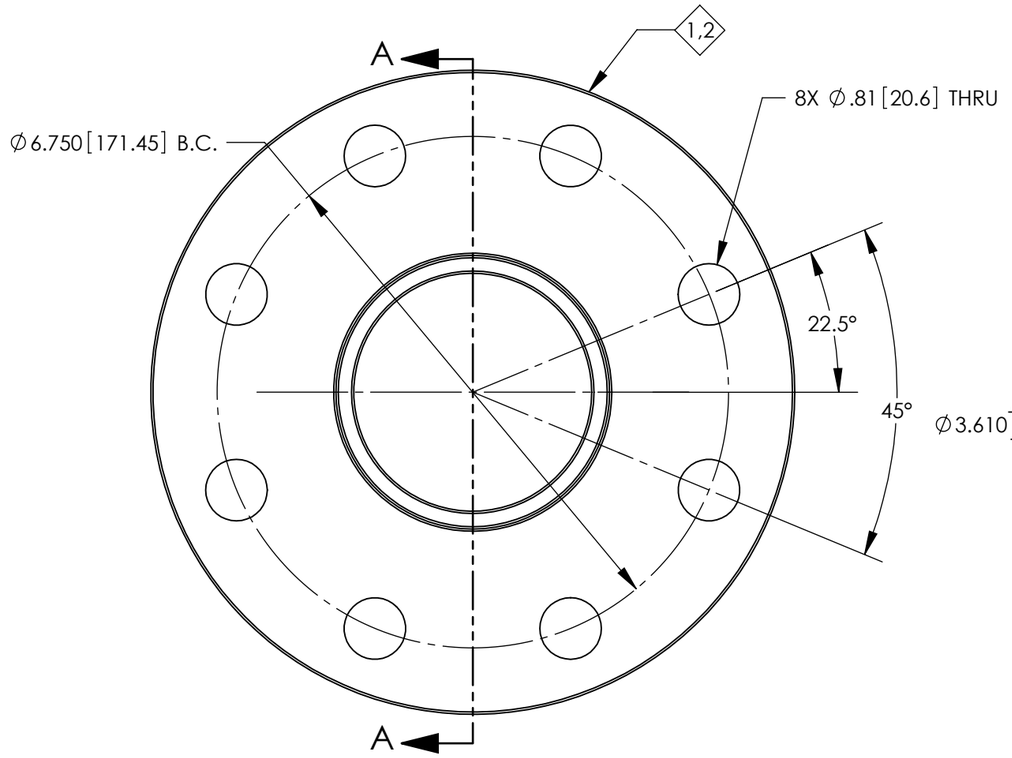
DRAWN	JM	6/21/2017
CHECKED	JS	6/21/2017
APPROVED	CP	6/21/2017
SHEET 1 OF 1		
WEIGHT:		THIRD ANGLE PROJECTION

SCV Valve

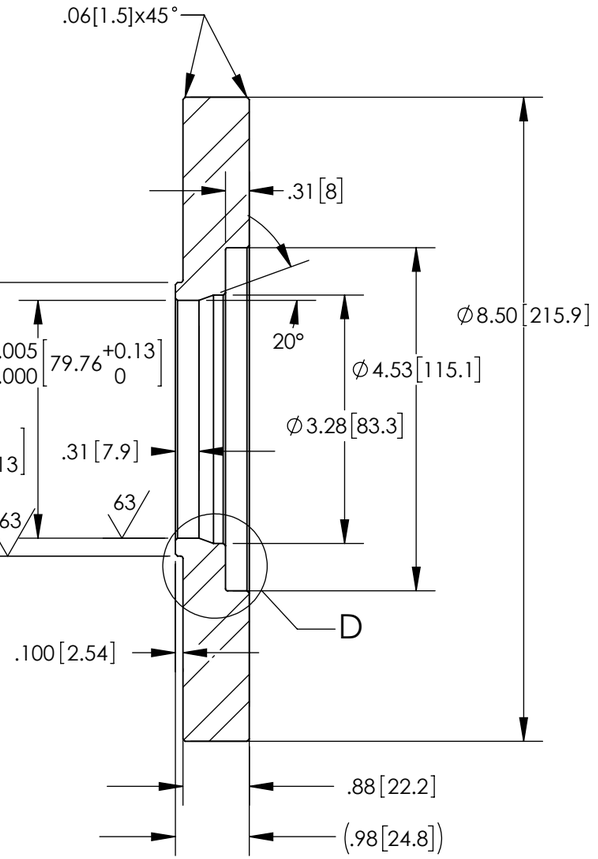
DESCRIPTION
42" 150#
TCG GATE
YOKE WELDMENT

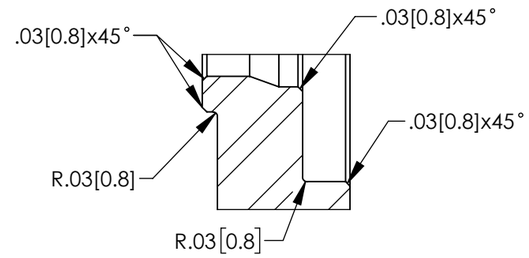
SIZE B | P/N **TCG4201BA01** | REV. **3**

LOC	MARKING DATA
1	TCG4201BA11 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.



SECTION A-A





DETAIL D
SCALE 1 : 1

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	22-JUN-17	JM	CP

REVISION

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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES [mm]
TOLERANCES ARE:
.X= ±.030 [0.8]
.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

DRAWN	JM	22-JUN-17
CHECKED	JS	22-JUN-17
APPROVED	CP	22-JUN-17
SHEET 1 OF 1		
WEIGHT:		

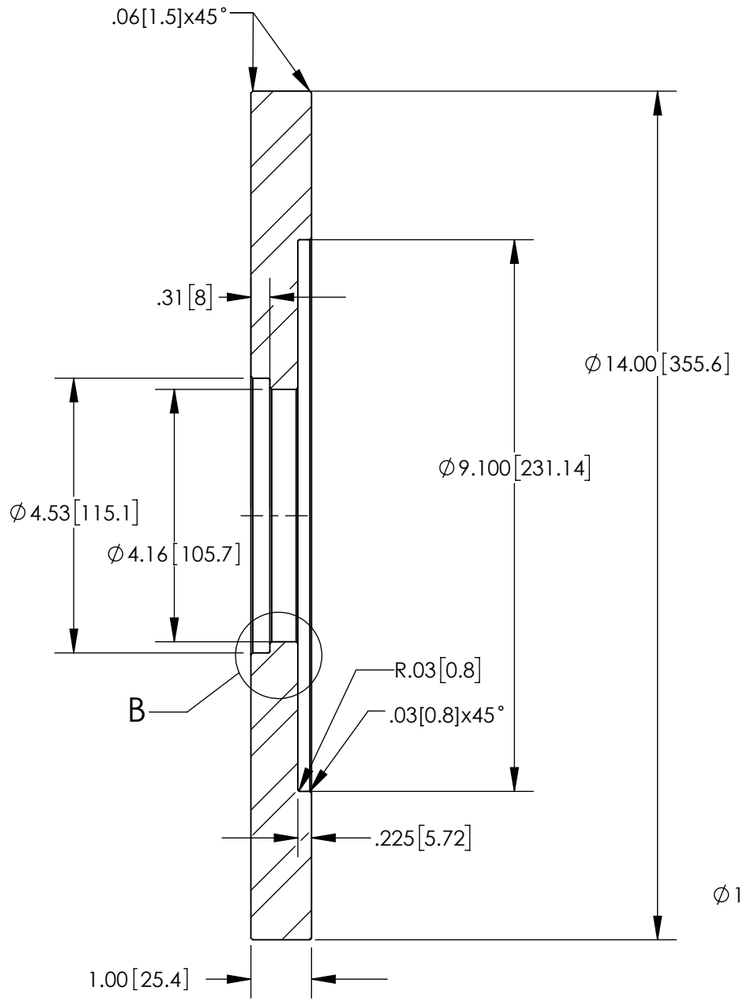
THIRD ANGLE PROJECTION

SCV Valve

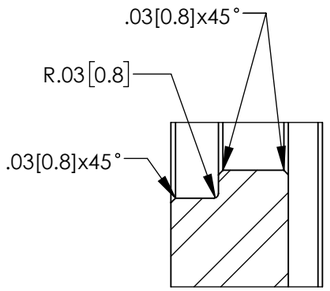
DESCRIPTION
42" 150#
SLAB GATE
YOKE BASE

SIZE B | P/N **TCG4201BA11** | REV. 1

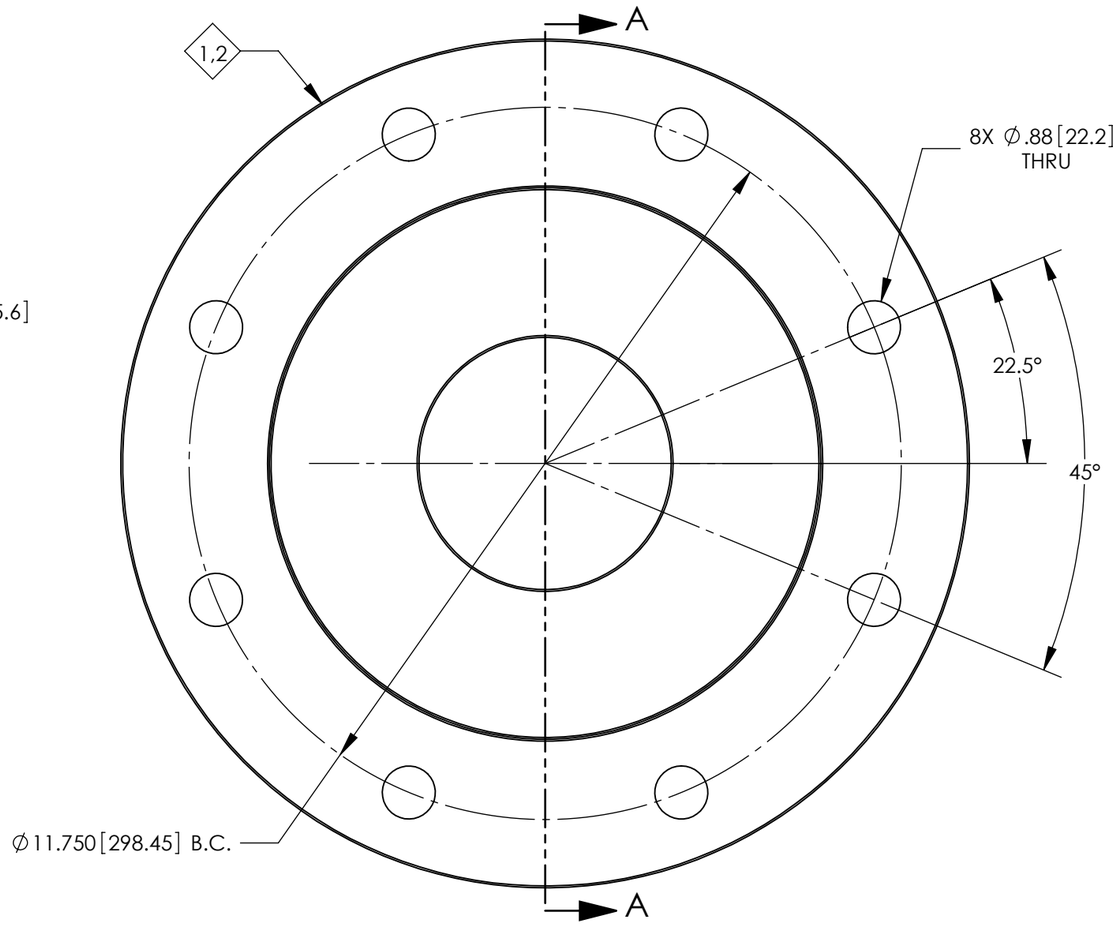
LOC	MARKING DATA
1	TCG4201BA12 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.



SECTION A-A



DETAIL B
SCALE 1 : 1



REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
2	X	WAS FA25 / IS FA30	12-AUG-19	TM	JM
1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	22-JUN-17	JM	CP

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TOLERANCES ARE:
.X= ±.030 [0.8]
.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE
125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

DRAWN	JM	22-JUN-17
CHECKED	JS	22-JUN-17
APPROVED	CP	22-JUN-17
SHEET 1 OF 1		
WEIGHT:		

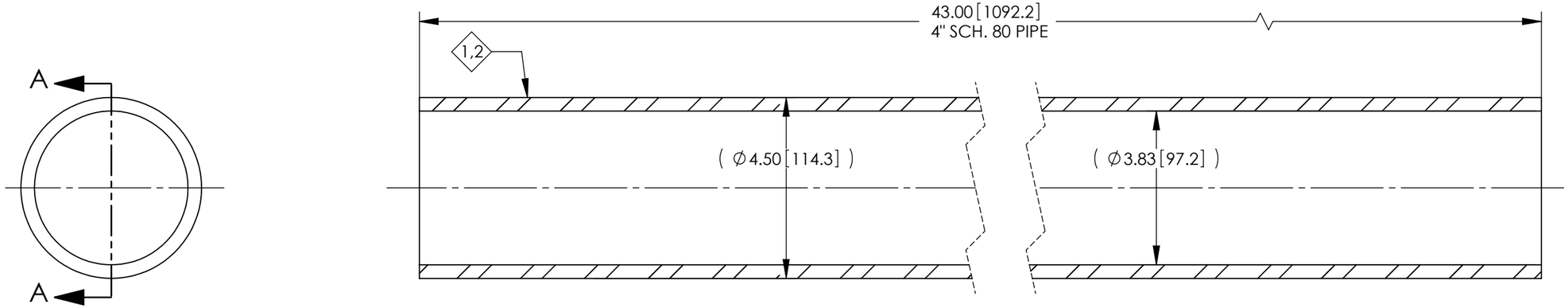
THIRD ANGLE PROJECTION

SCV Valve

DESCRIPTION
42" 150#
TCG GATE
YOKE TOP - FA30

SIZE B | P/N **TCG4201BA12** | REV. **2**

LOC	MARKING DATA
1	TCG4201BA13 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.



SECTION A-A

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	22-JUN-17	JM	CP

REVISION

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DIMENSIONS ARE IN INCHES [mm]
TOLERANCES ARE:
.X= ±.030 [0.8]
.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE
125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

DRAWN JM	22-JUN-17
CHECKED JS	22-JUN-17
APPROVED CP	22-JUN-17
SHEET 1 OF 1	
WEIGHT:	

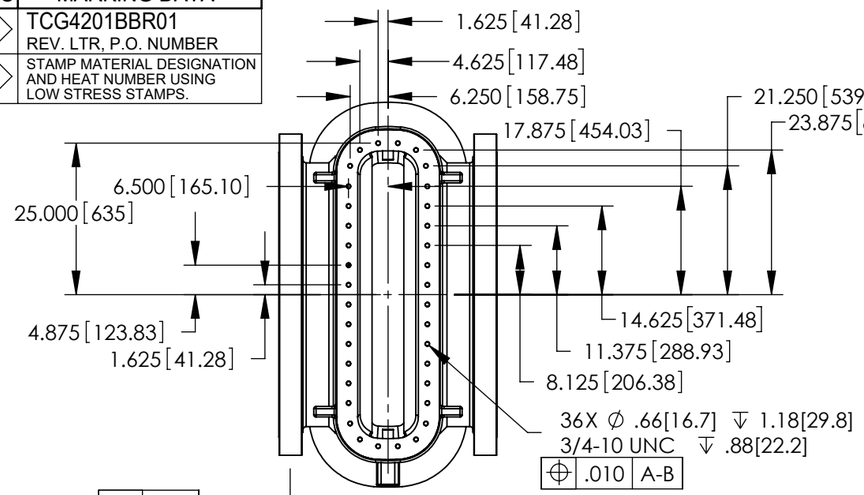
THIRD ANGLE PROJECTION

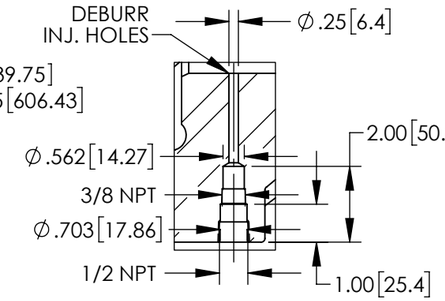
SCV Valve

DESCRIPTION
42" 150#
SLAB GATE
YOKE TUBE

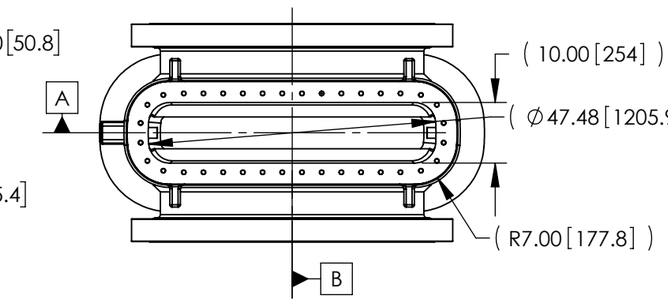
SIZE B | P/N **TCG4201BA13** | REV. 1

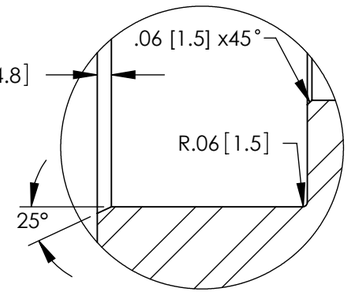
LOC	MARKING DATA
1	TCG4201BBR01 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.



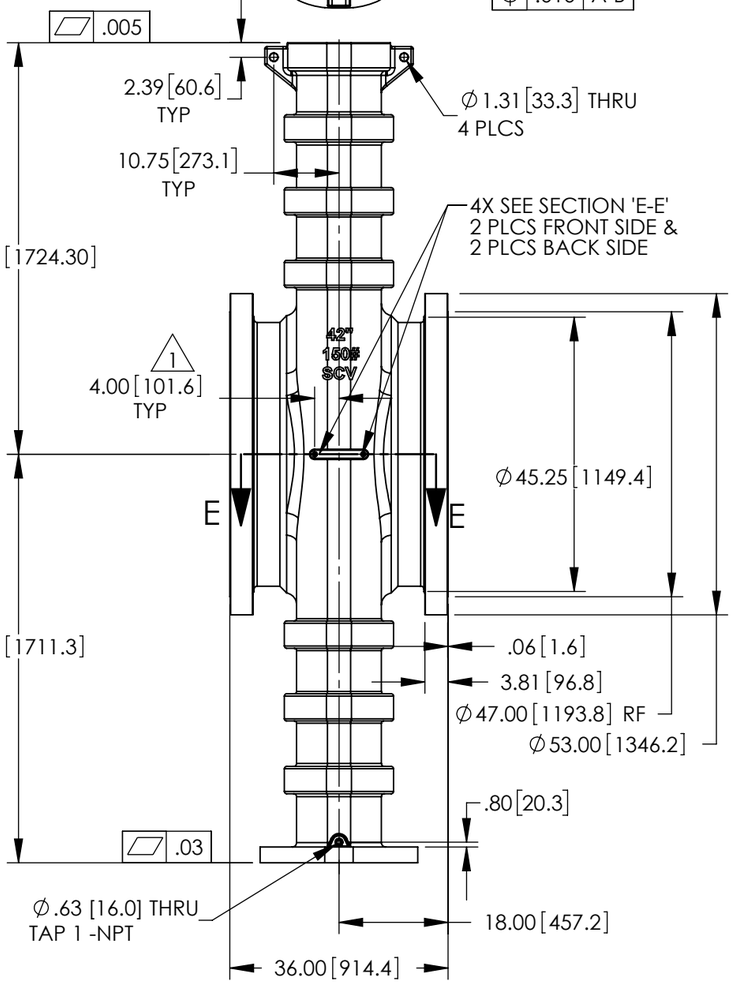


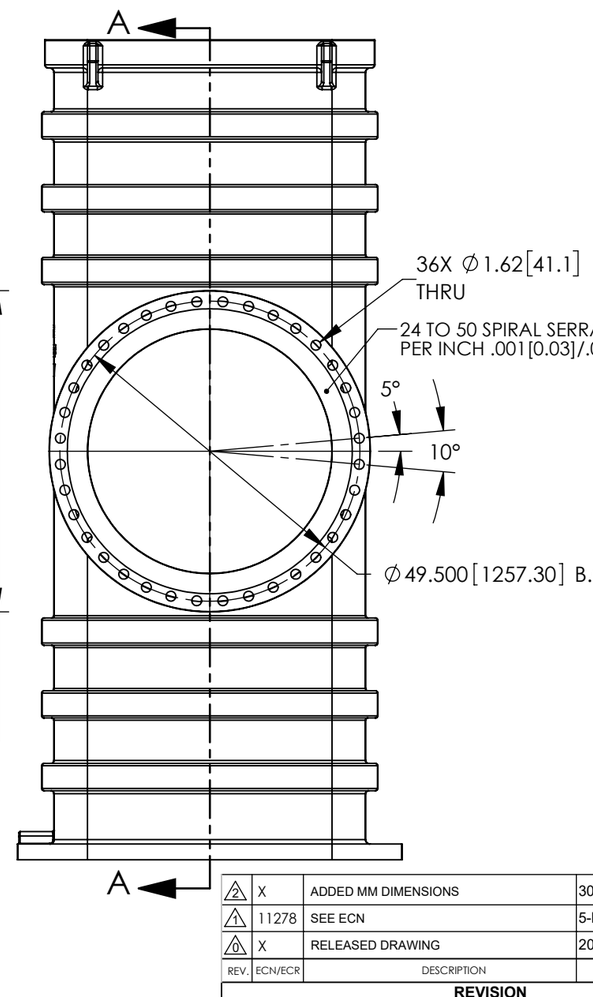
SECTION E-E
SCALE 1 : 4

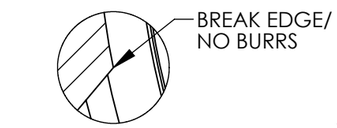




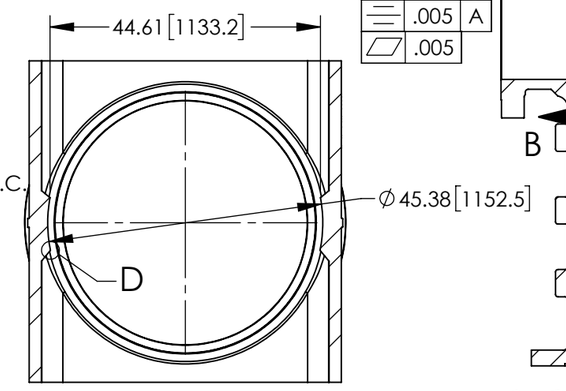
DETAIL C
SCALE 1 : 2



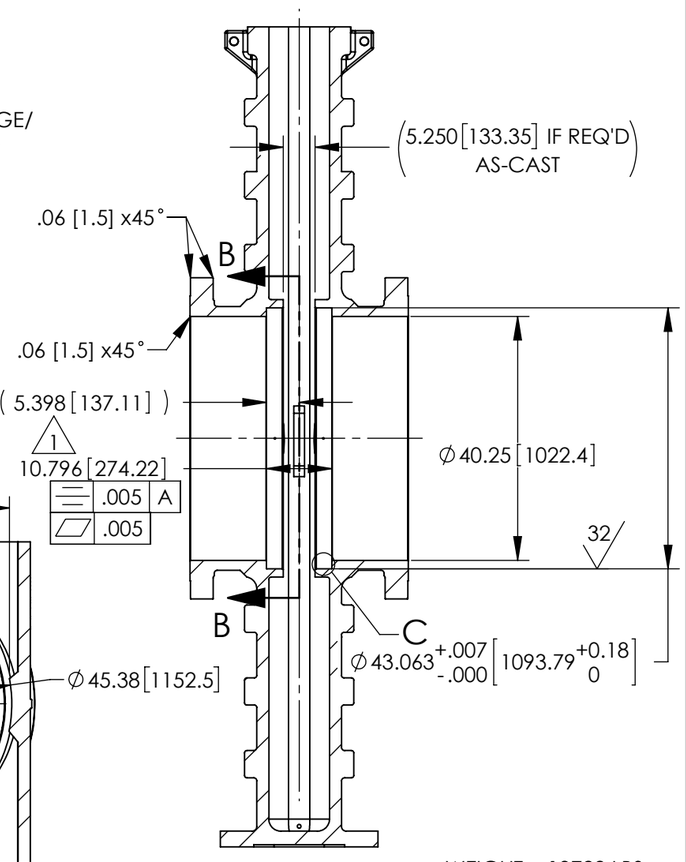




DETAIL D
SCALE 1 : 4



SECTION B-B



SECTION A-A

WEIGHT = 13722 LBS

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
2	X	ADDED MM DIMENSIONS	30-OCT-18	JM	CP
1	11278	SEE ECN	5-DEC-17	JM	CP
0	X	RELEASED DRAWING	20-OCT-17	JM	CP

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES [mm]
TOLERANCES ARE:
.X= ±.030 [0.8]
.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

DRAWN	JM	20-OCT-17
CHECKED	JS	20-OCT-17
APPROVED	CP	20-OCT-17
SHEET 1 OF 1		
WEIGHT:		

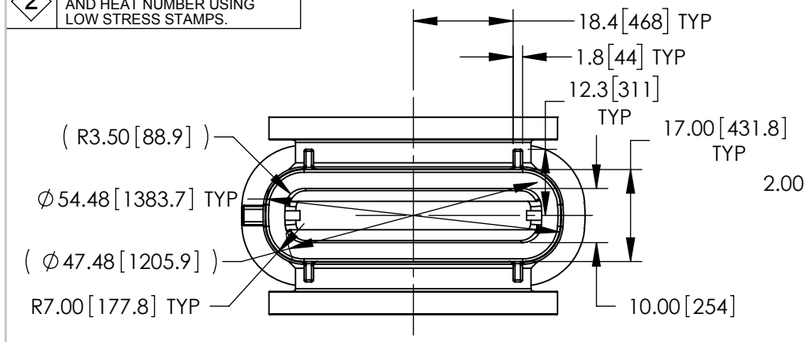
THIRD ANGLE PROJECTION

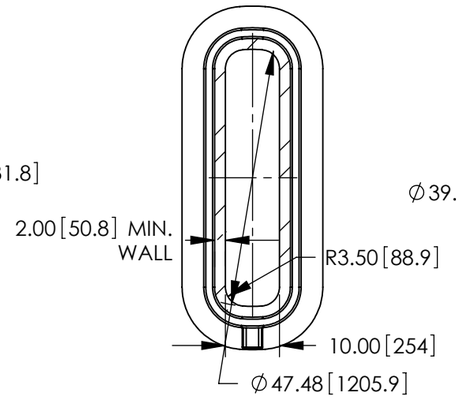
SCV Valve

DESCRIPTION
42" 150# RF
SLAB GATE
BODY MACHINING

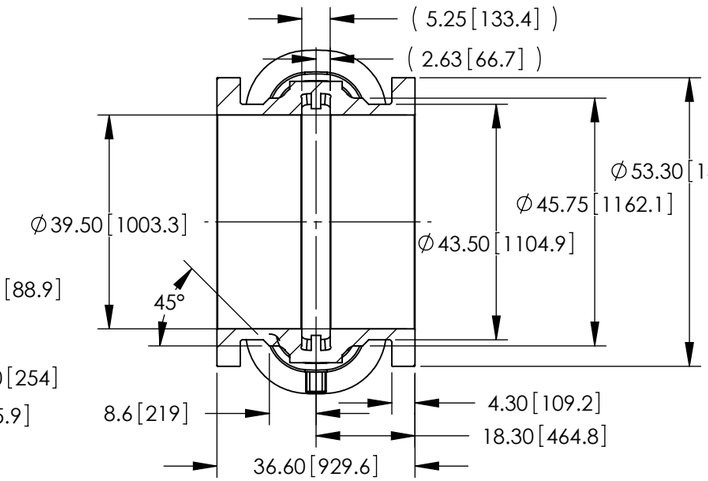
SIZE B | P/N TCG4201BBR01 | REV. 2

LOC	MARKING DATA
1	TCG4201BBR01-CAST REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.





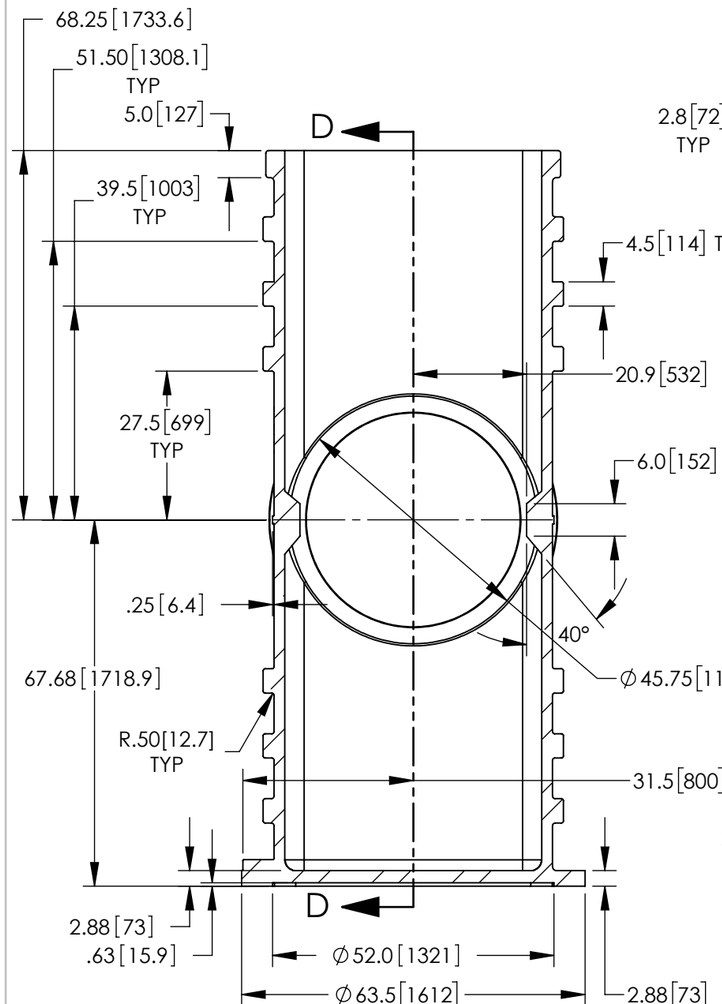
SECTION C-C



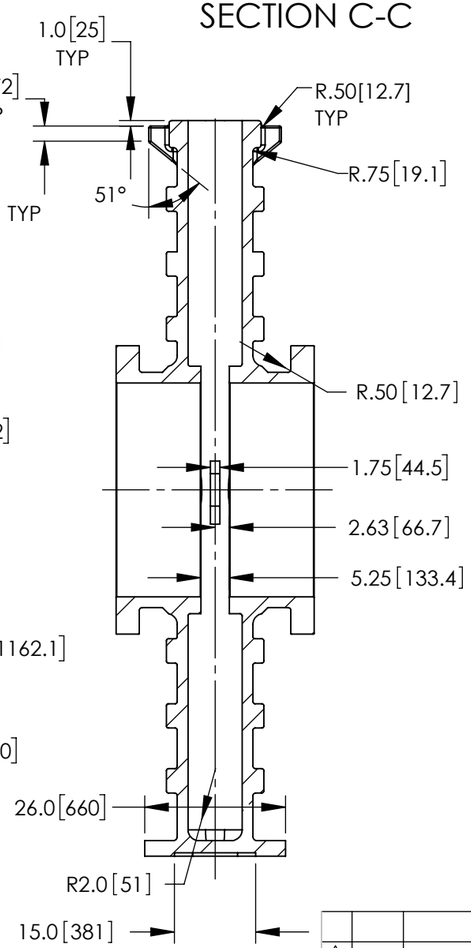
SECTION B-B

CASTING REQUIREMENTS:

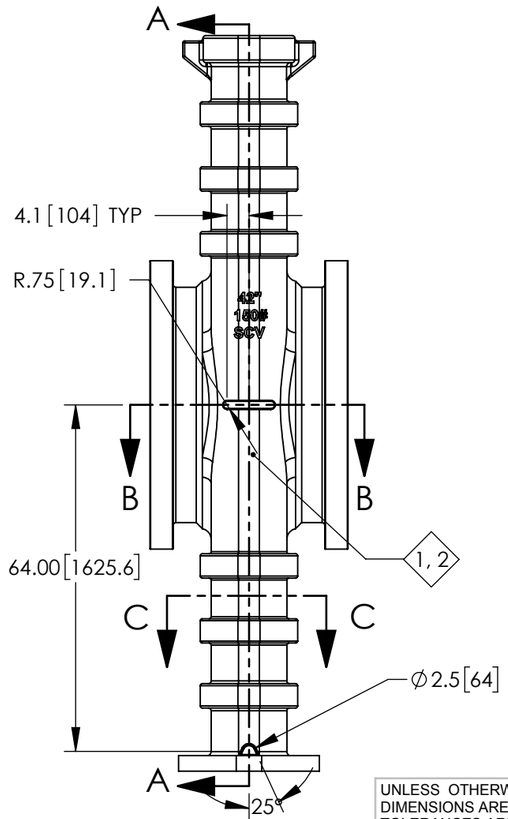
1. FINISHED CASTING MUST BE CHECKED FOR STRAIGHTNESS AFTER HEAT TREATING.
2. EACH PIECE SHALL BE MARKED WITH:
   - FOUNDRY LOGO
   - MAT'L DESIGNATION - 1/2"[12.7mm] CAST
   - HEAT NUMBER - 1/4"[6.4mm] STAMPED
   SAMPLES SHALL BE X-RAYED TO PROVE FOUNDRY TECHNIQUE.
3. COMMERICAL CASTINGS - VISUALLY INSPECT TO MSS SP-55.
4. DRAFT 2° UNLESS OTHERWISE SPECIFIED.
5. SEE PURCHASE ORDER FOR ADDITIONAL REQUIREMENTS.

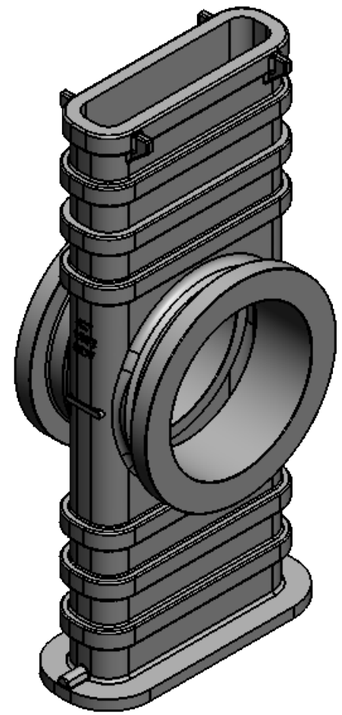


SECTION A-A



SECTION D-D





WEIGHT = 15011 LBS

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	20-OCT-17	JM	CP

REVISION

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES [MM]
TOLERANCES ARE:
.X[0]= ±.10 [2.5]
.XX[0.X]= ±.06 [1.5]
ANGULAR= ±1°

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

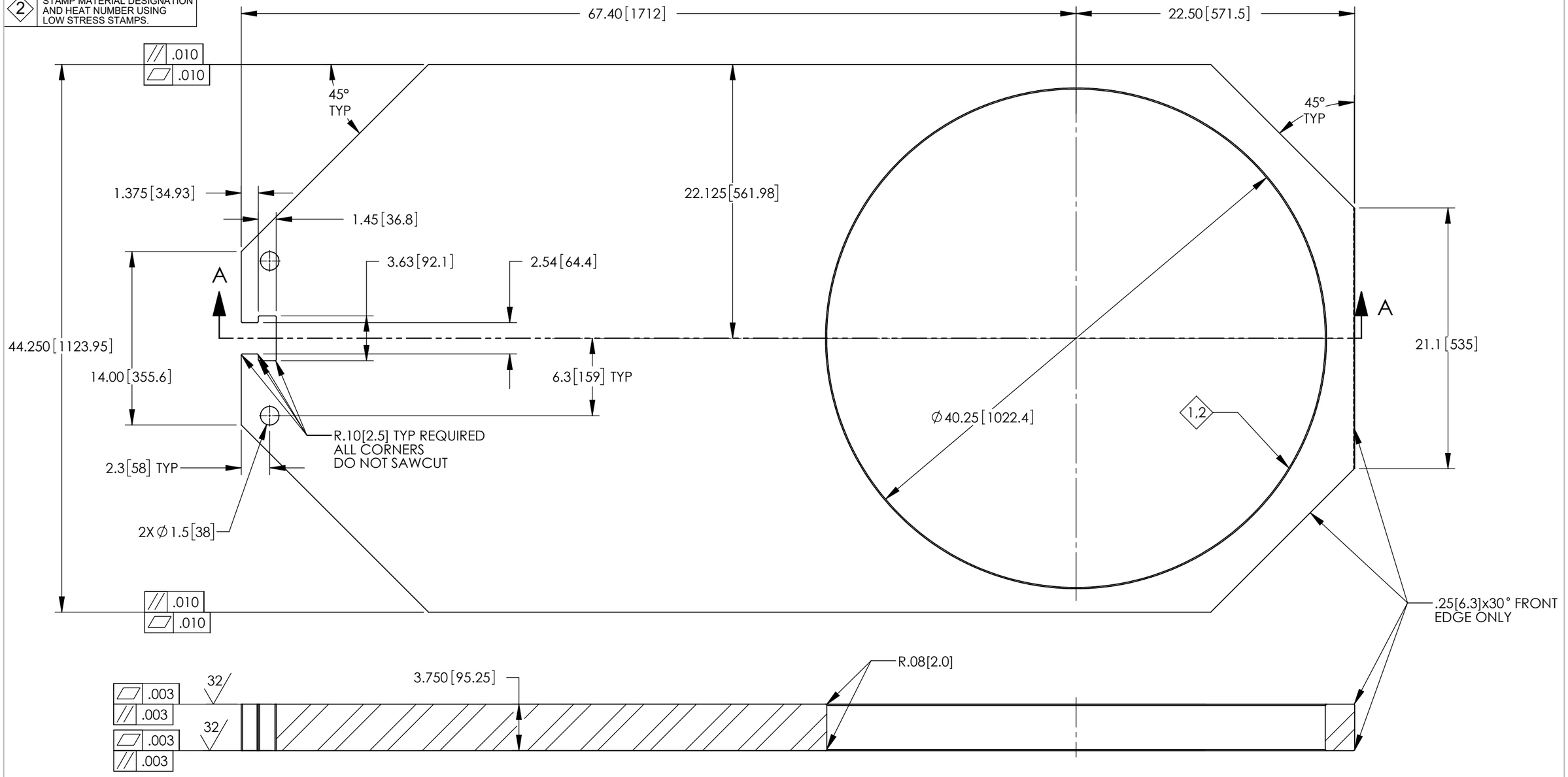
DRAWN	JM	20-OCT-17
CHECKED	JS	20-OCT-17
APPROVED	CP	20-OCT-17
SHEET 1 OF 1		
WEIGHT:		THIRD ANGLE PROJECTION

SCV Valve

DESCRIPTION
42" 150# RF
SLAB GATE VALVE
BODY CASTING

SIZE	P/N	REV.
B	TCG4201BBR01-CAST	1

LOC	MARKING DATA
1	TCG4201BC01 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.



SECTION A-A

WEIGHT = 2472 LBS

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	20-OCT-17	JM	CP

REVISION

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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES [mm]
TOLERANCES ARE:
.X= ±.030 [0.8]
.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

DRAWN	JM	20-OCT-17
CHECKED	JS	20-OCT-17
APPROVED	CP	20-OCT-17

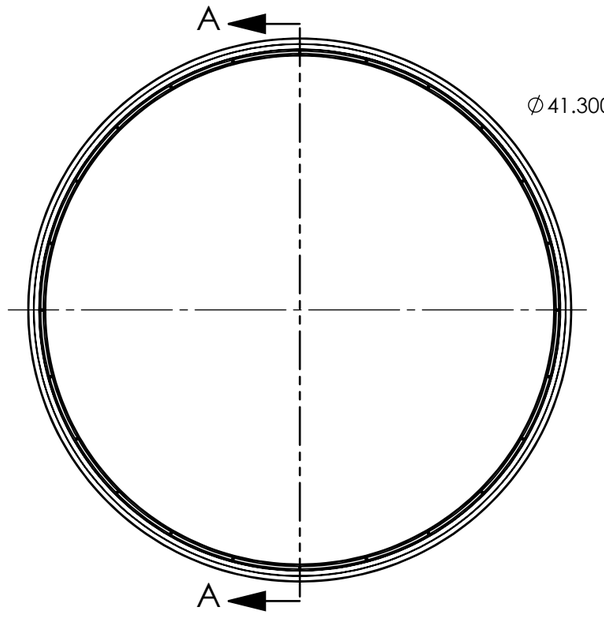
SHEET 1 OF 1
WEIGHT:
THIRD ANGLE PROJECTION

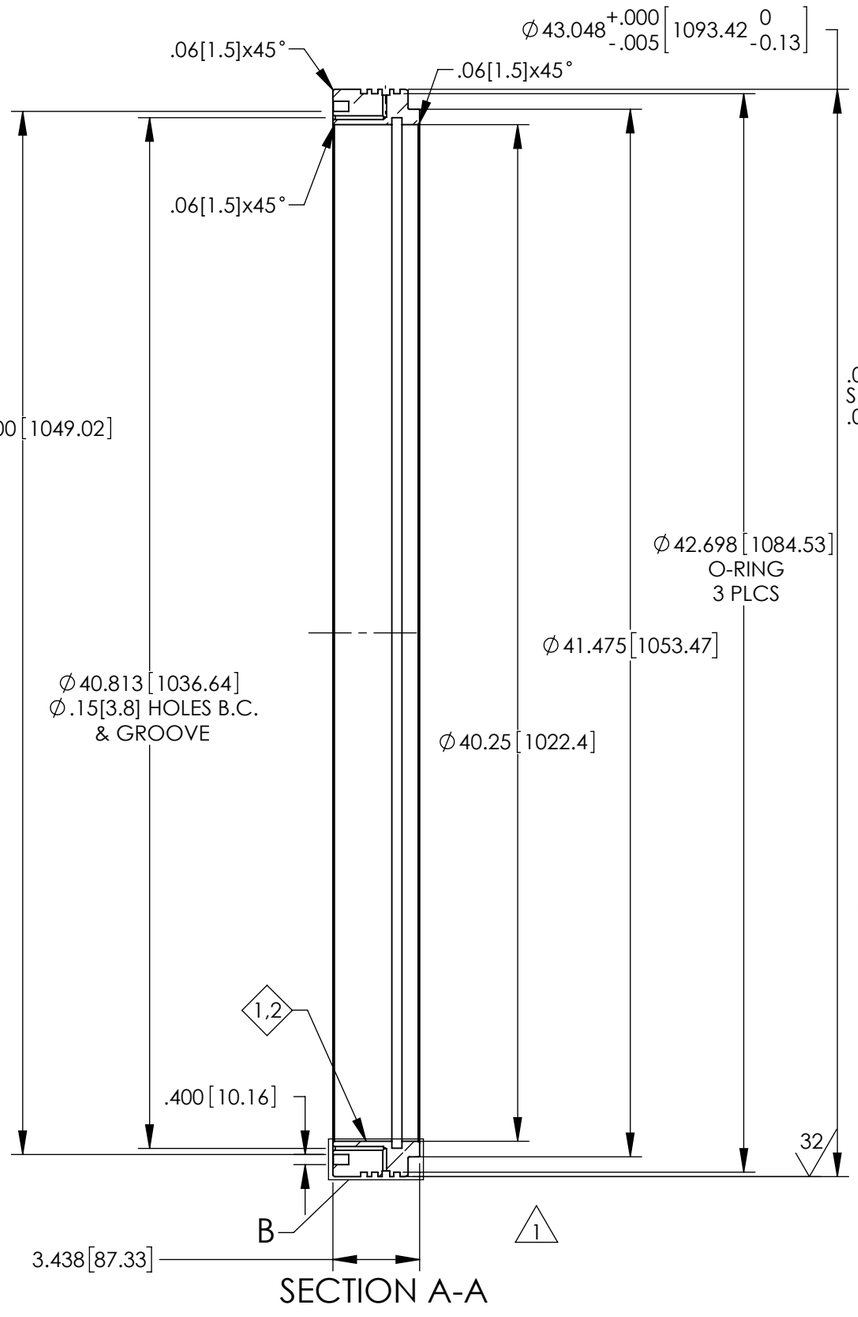
SCV Valve

DESCRIPTION
42" 150#
SLAB GATE VALVE
GATE

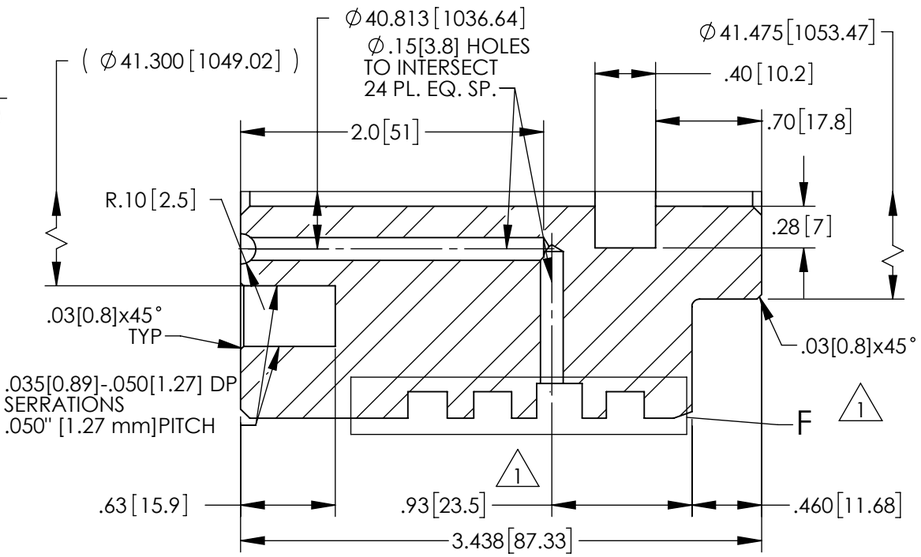
SIZE B | P/N TCG4201BC01 | REV. 1

LOC	MARKING DATA
1	TCG4201BD01 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.

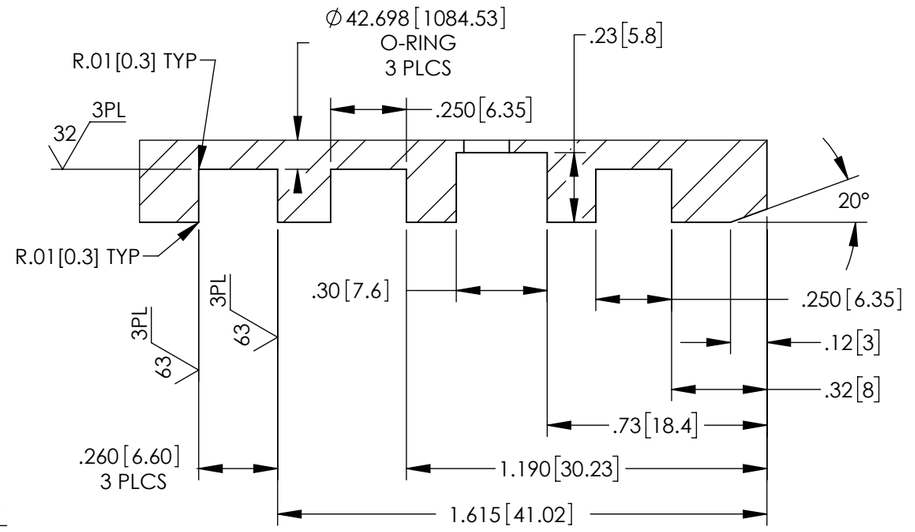




SECTION A-A



DETAIL B
SCALE 1 : 1



DETAIL F
SCALE 2 : 1

-SPECIAL O-RINGS
.210[5.33] C.S. x 42.00[1066.8] ±0.25[6.3] I.D.

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
2	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
1	11278	SEE ECN	5-DEC-17	RD	JM
0	X	RELEASED DRAWING	10-OCT-17	RD	JM

REVISION

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DIMENSIONS ARE IN INCHES [mm]
TOLERANCES ARE:
.X= ±.030 [0.8]
.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE
125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

DRAWN	RD 10-OCT-17
CHECKED	JS 10-OCT-17
APPROVED	JM 10-OCT-17
SHEET 1 OF 1	
WEIGHT:	

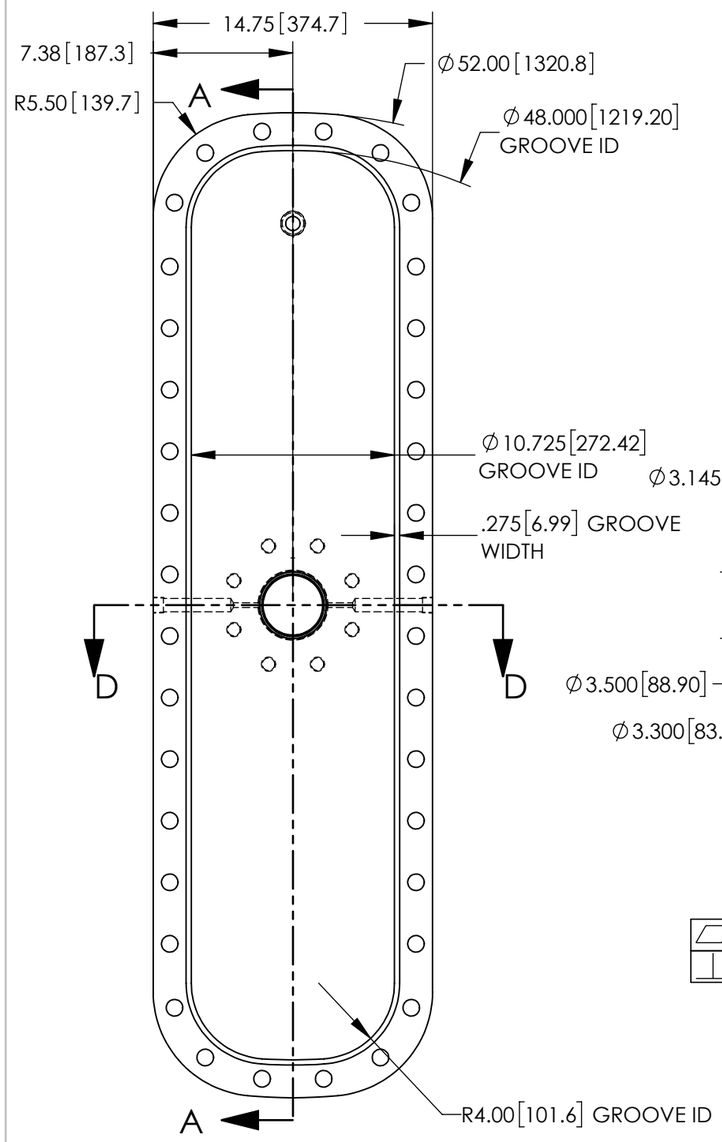
THIRD ANGLE PROJECTION

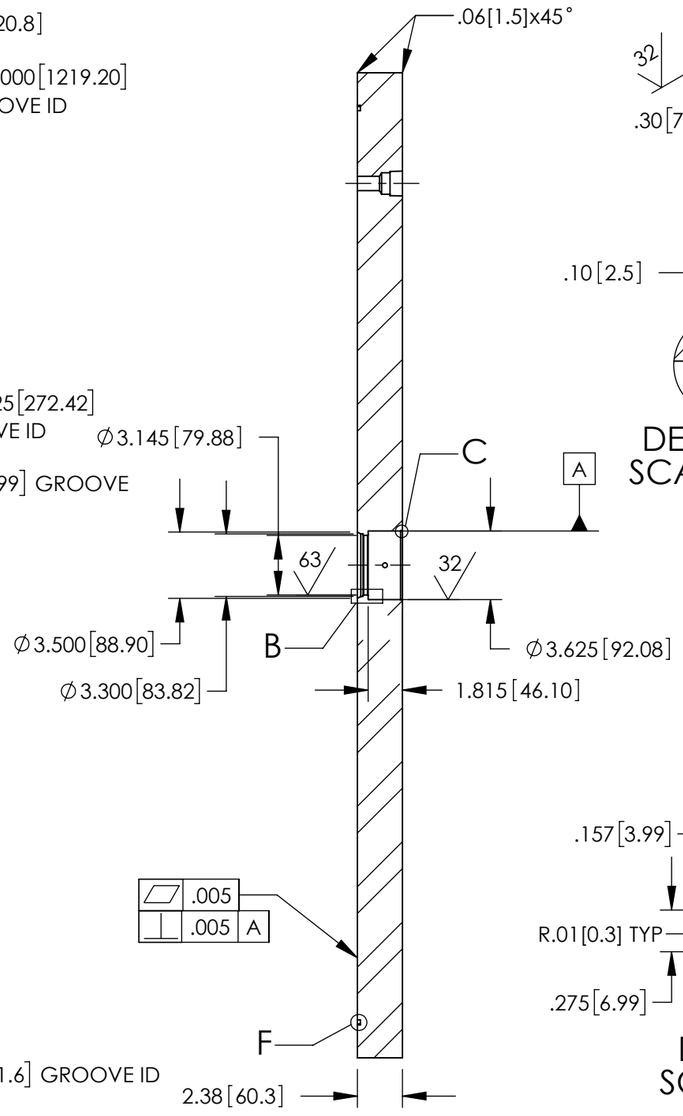
SCV Valve

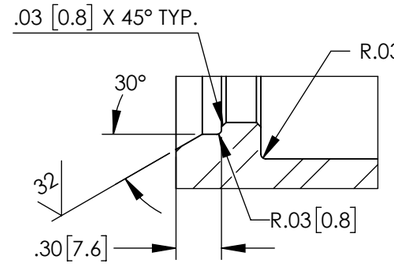
DESCRIPTION
SEAT
42" 150/300#
SLAB GATE VALVE

SIZE B | P/N TCG4201BD01 | REV. 2

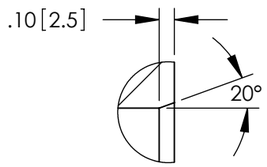
LOC	MARKING DATA
1	TCG4201BE01 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.



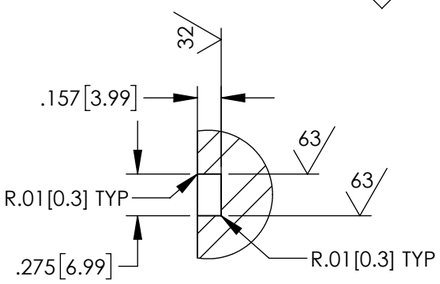




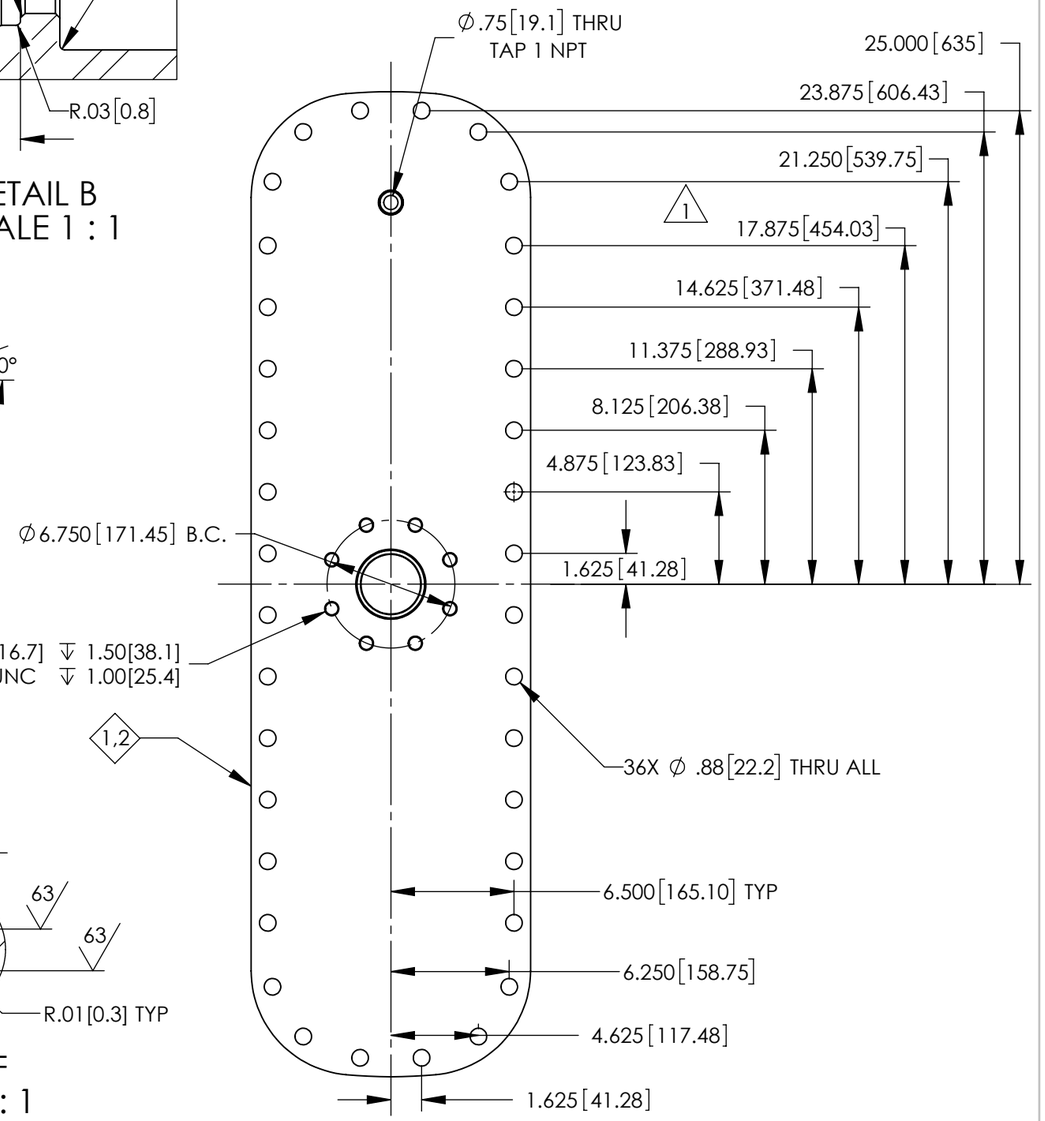
DETAIL B
SCALE 1 : 1

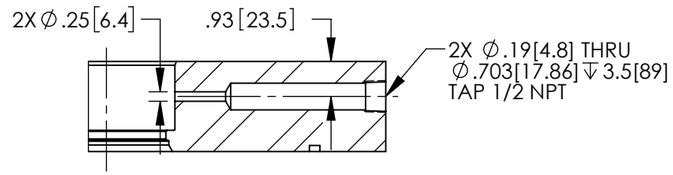


DETAIL C
SCALE 1 : 1



DETAIL F
SCALE 1 : 1





SECTION D-D
SCALE 1 : 4

SECTION A-A

WEIGHT = 471 LBS

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
2	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
1	X	DIM WAS 21.125 / IS 21.250	28-JAN-18	JM	CP
0	X	RELEASED DRAWING	20-DEC-15	JM	CP

REVISION

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.X= ±.030 [0.8]
.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

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DRAWN	JM	20-DEC-15
CHECKED	JS	20-DEC-15
APPROVED	CP	20-DEC-15
SHEET 1 OF 1		
WEIGHT:		

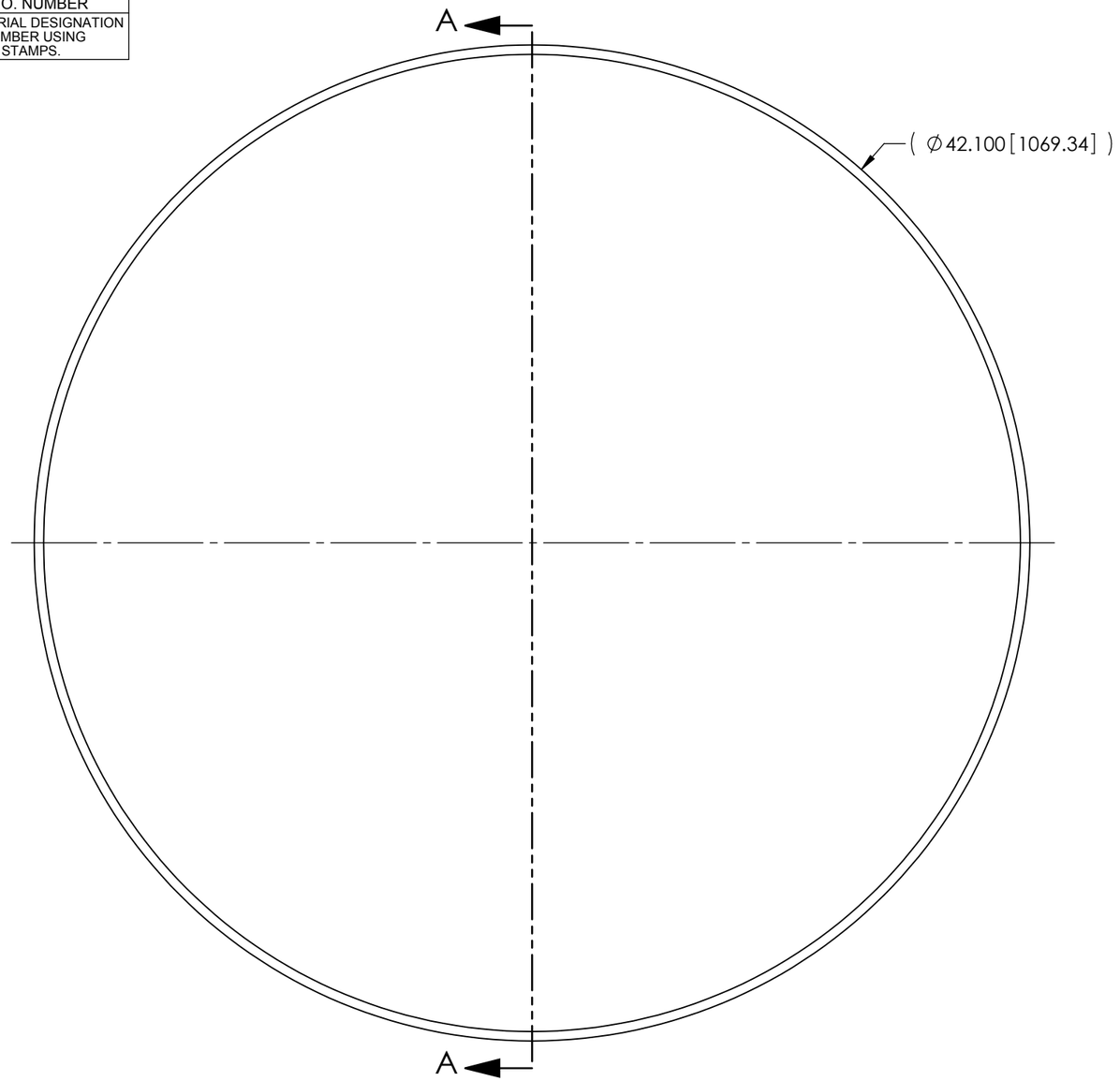
THIRD ANGLE PROJECTION

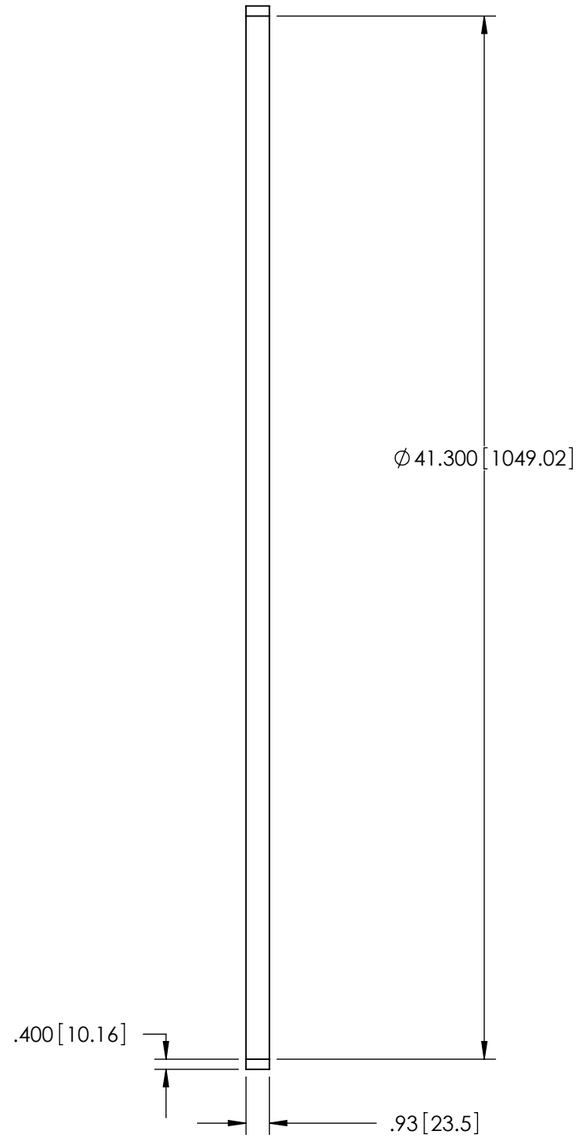
SCV Valve

DESCRIPTION
42" 150#
SLAB GATE
BONNET

SIZE B | P/N TCG4201BE01 | REV. 2

LOC	MARKING DATA
1	TCG4201BJ01 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.





SECTION A-A

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	10-OCT-17	RD	JM

REVISION

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.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

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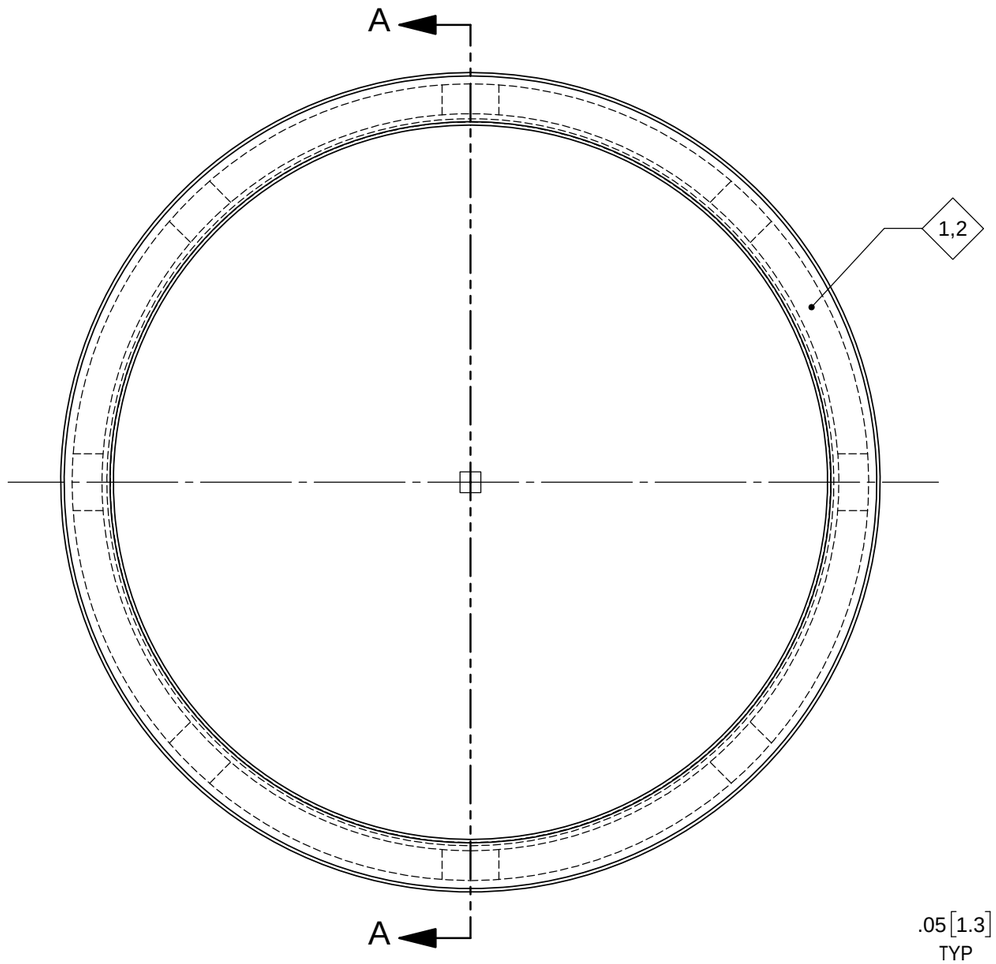
DRAWN	RD	10-OCT-17
CHECKED	JS	10-OCT-17
APPROVED	JM	10-OCT-17
SHEET 1 OF 1		
WEIGHT:		THIRD ANGLE PROJECTION

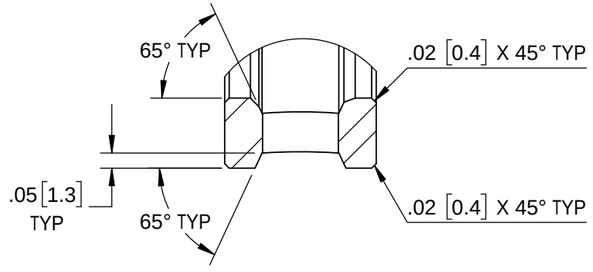
SCV Valve

DESCRIPTION
SEAT INSERT
42" 150/300#
TCG GATE

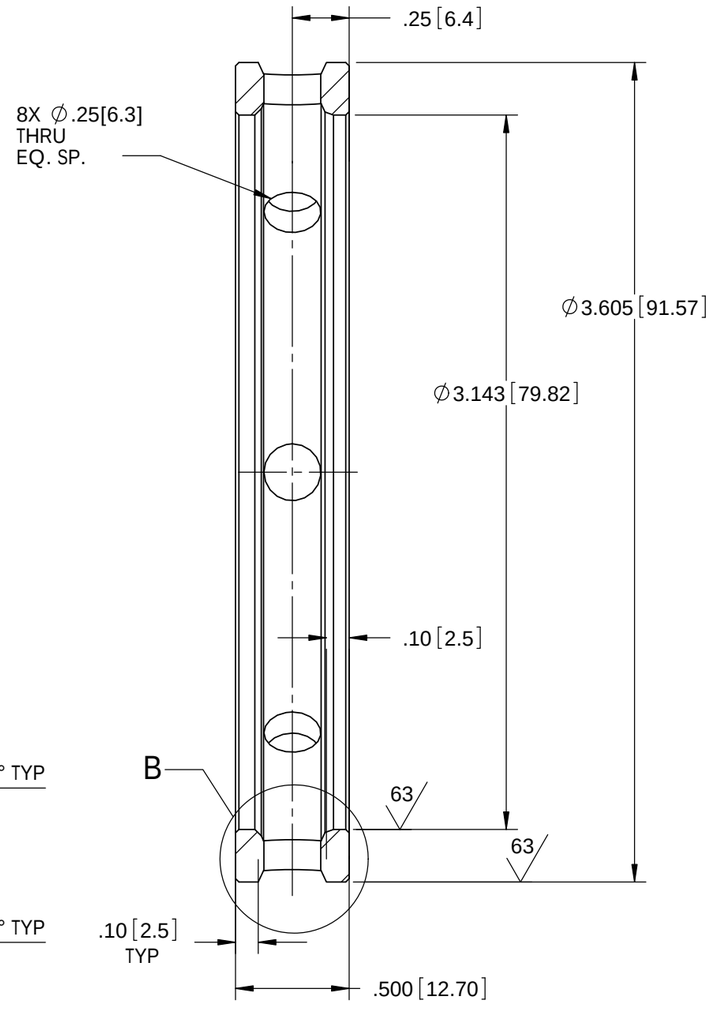
SIZE	P/N	REV.
B	TCG4201BJ01	1

LOC	MARKING DATA
1	TCG4201BL01 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.





DETAIL B
SCALE 2 : 1



SECTION A-A

1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	10-OCT-17	RD	JM
REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D

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.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
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CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

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DRAWN	RD 10-OCT-17
CHECKED	JS 10-OCT-17
APPROVED	JM 10-OCT-17
SHEET 1 OF 1	
WEIGHT:	

THIRD ANGLE PROJECTION

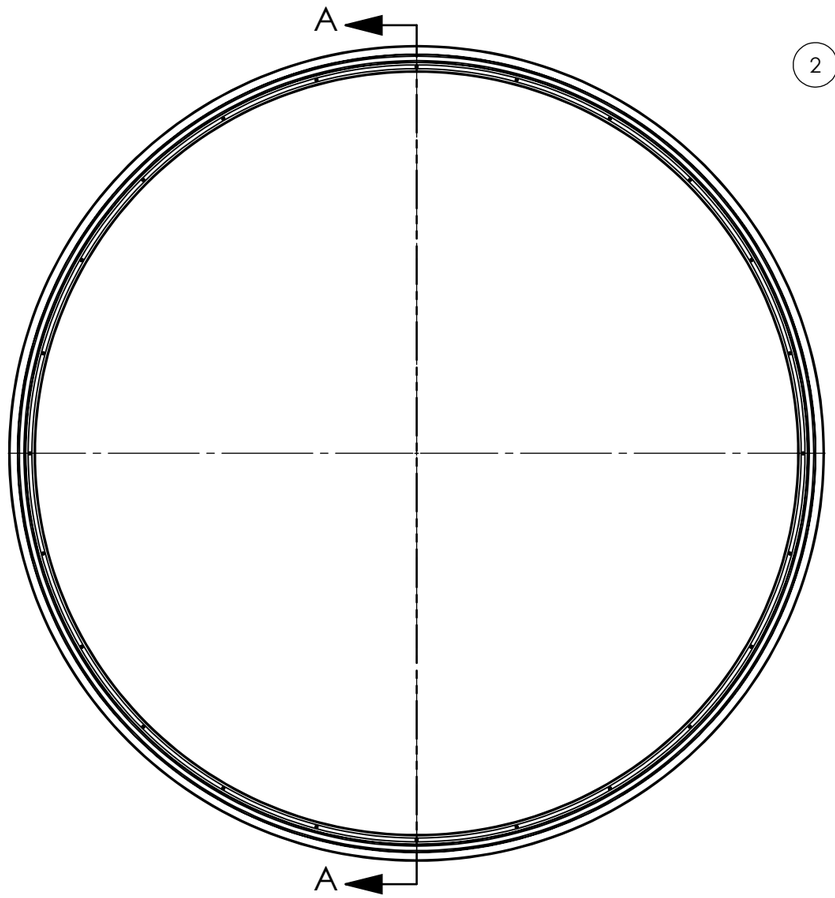
SCV Valve

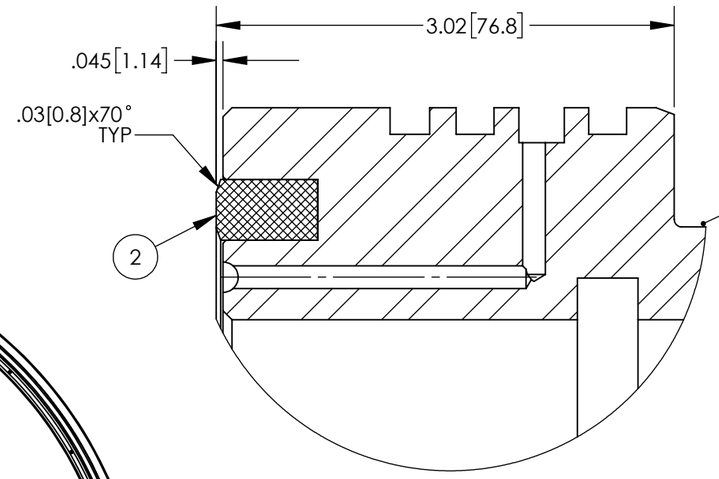
DESCRIPTION
LANTERN RING
42" 600#
SLAB GATE

SIZE B | P/N **TCG4201BL01** | REV. **0**

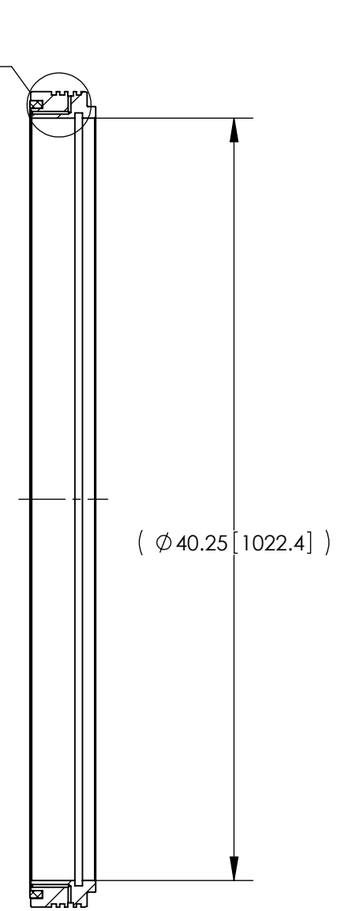
LOC	MARKING DATA
1	TCG4201BR01 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	TCG4201BD01	SEAT
2	1	TCG4201BJ01	SEAT INSERT





DETAIL B
SCALE 1 : 1



SECTION A-A

NOTES:
1. INSERT TO BE PRESSED INTO GROOVE WITH 20,000 LBF. THEN MACHINED AS SHOWN

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	10-OCT-17	RD	JM

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.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

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DRAWN	RD 10-OCT-17
CHECKED	JS 10-OCT-17
APPROVED	JM 10-OCT-17
SHEET 1 OF 1	
WEIGHT:	

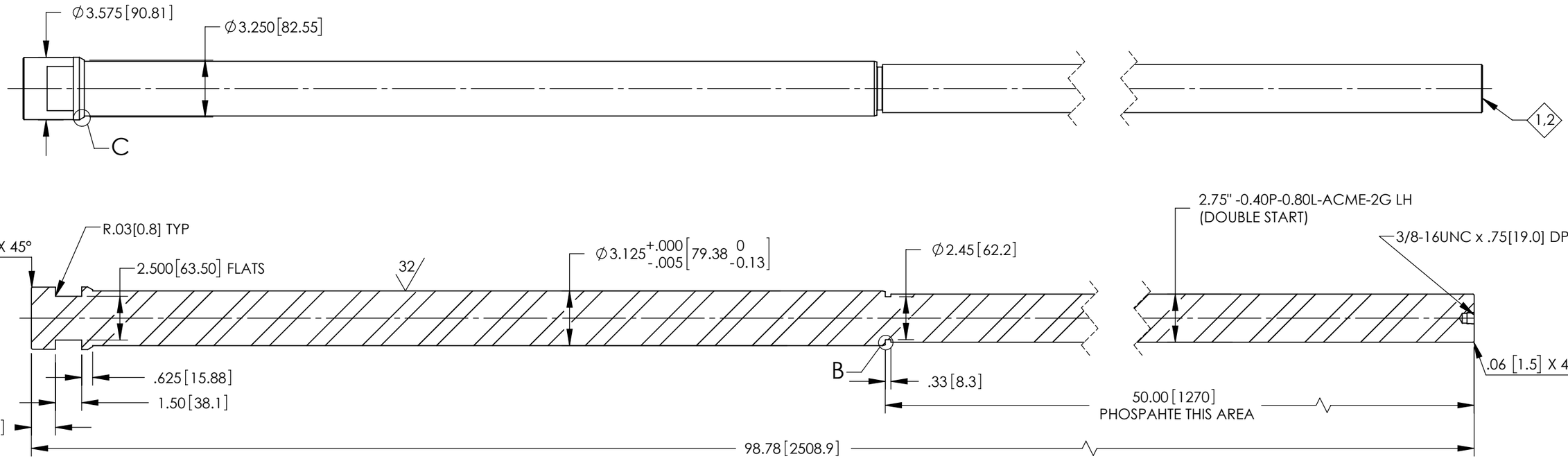
THIRD ANGLE PROJECTION

SCV Valve

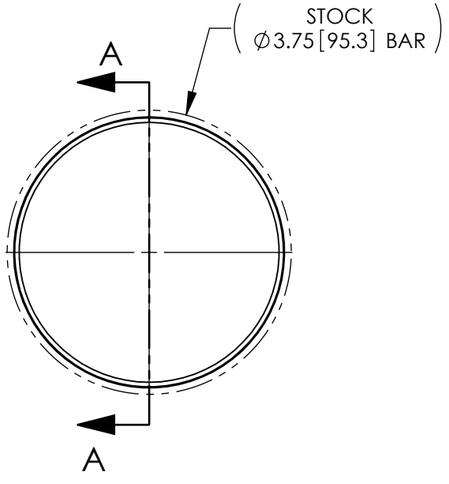
DESCRIPTION
SEAT ASSEMBLY
42" 150/300#
SLAB GATE VALVE

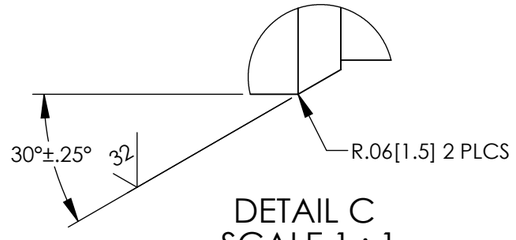
SIZE B | P/N **TCG4201BR01** | REV. 1

LOC	MARKING DATA
1	TCG4201BST1 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.

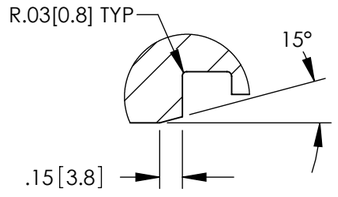


SECTION A-A





DETAIL C
SCALE 1 : 1



DETAIL B
SCALE 1 : 1

WEIGHT= 191 LBS

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	20-OCT-17	JM	CP

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.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

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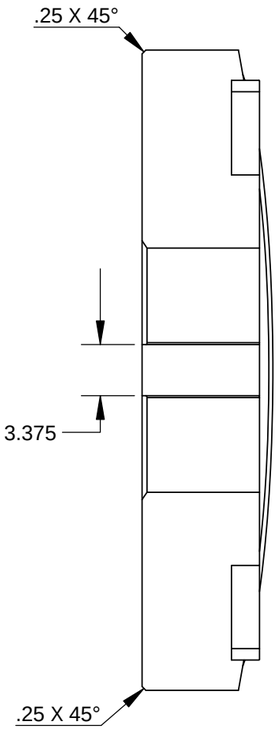
DRAWN	JM	20-OCT-17
CHECKED	JS	20-OCT-17
APPROVED	CP	20-OCT-17
SHEET 1 OF 1		
WEIGHT:		THIRD ANGLE PROJECTION

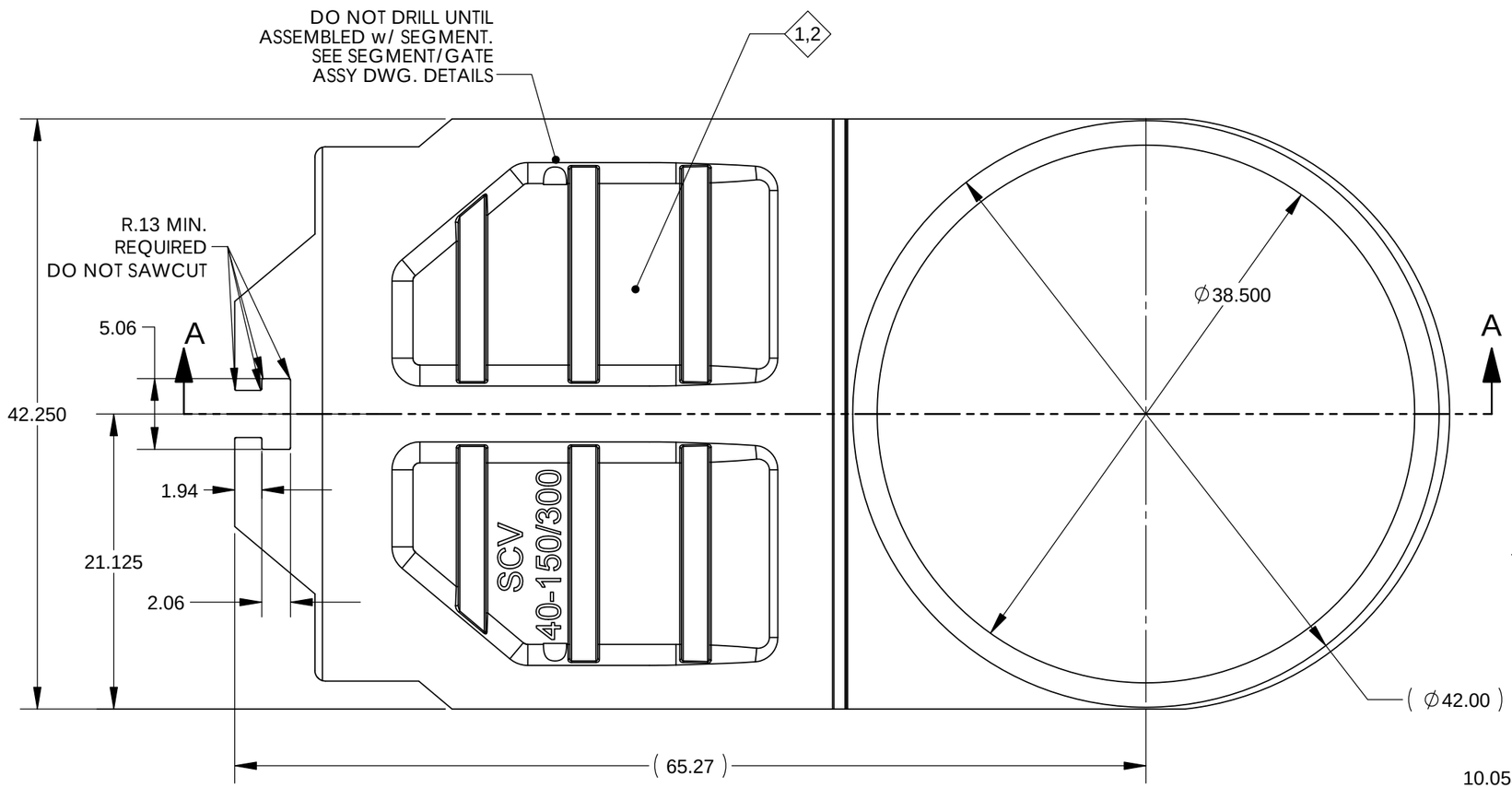
SCV Valve

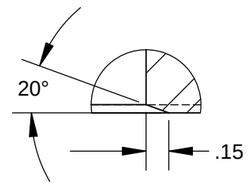
DESCRIPTION
STEM
42" 150#
SLAB GATE VALVE

SIZE B | P/N **TCG4201BST1** | REV. 1

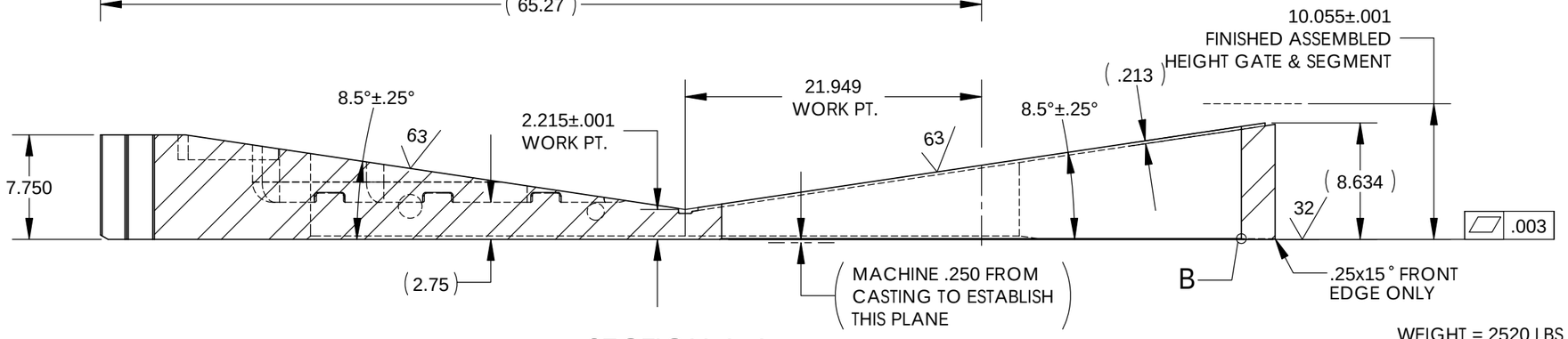
LOC	MARKING DATA
1	EPG4003BCG1 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.







DETAIL B
SCALE 1 : 1



SECTION A-A

WEIGHT = 2520 LBS

USE CASTING DWG. NO. EPG4001BCG1-CAST

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	X	ADDED CHAMFER TO BORE ID	04-DEC-19	TM	JM
0	X	RELEASED DRAWING	29-APR-19	TM	JM

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.XX= ±.015
.XXX= ±.005
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS FINISH
CONCENTRICITY= ±.002 T.I.R.
BREAK ALL SHARP EDGES

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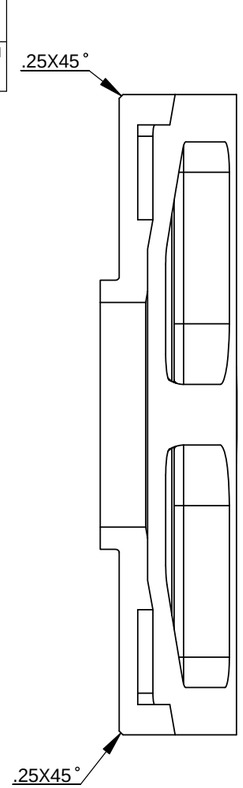
DRAWN TM	29-APR-19
CHECKED JS	29-APR-19
APPROVED JM	29-APR-19
SHEET 1 OF 1	
WEIGHT:	THIRD ANGLE PROJECTION

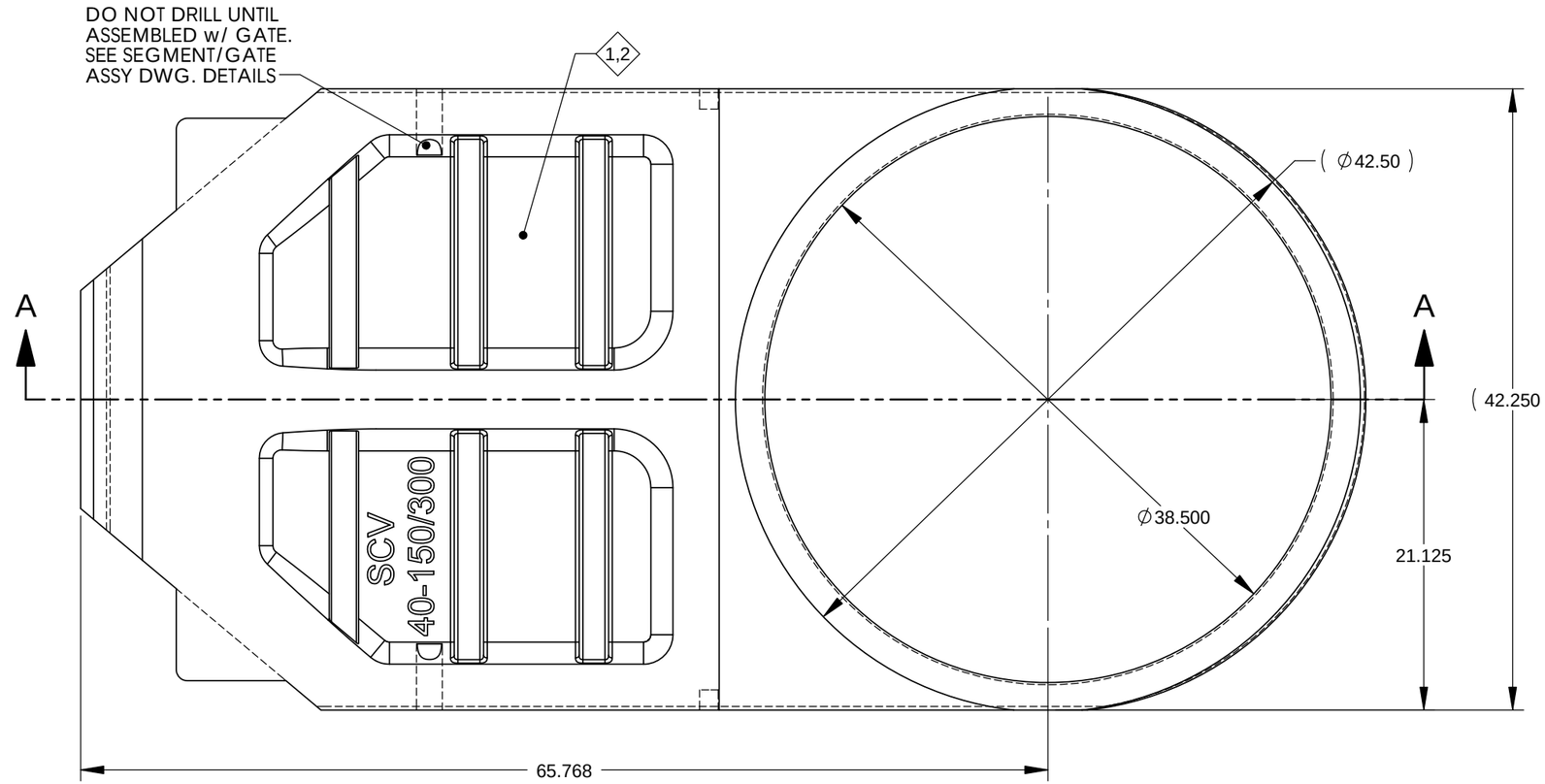
SCV Valve

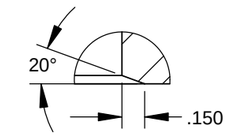
DESCRIPTION
GATE MACHINING
40" 300#
EXPANDING GATE VALVE

SIZE	P/N	REV.
B	EPG4003BCG1	1

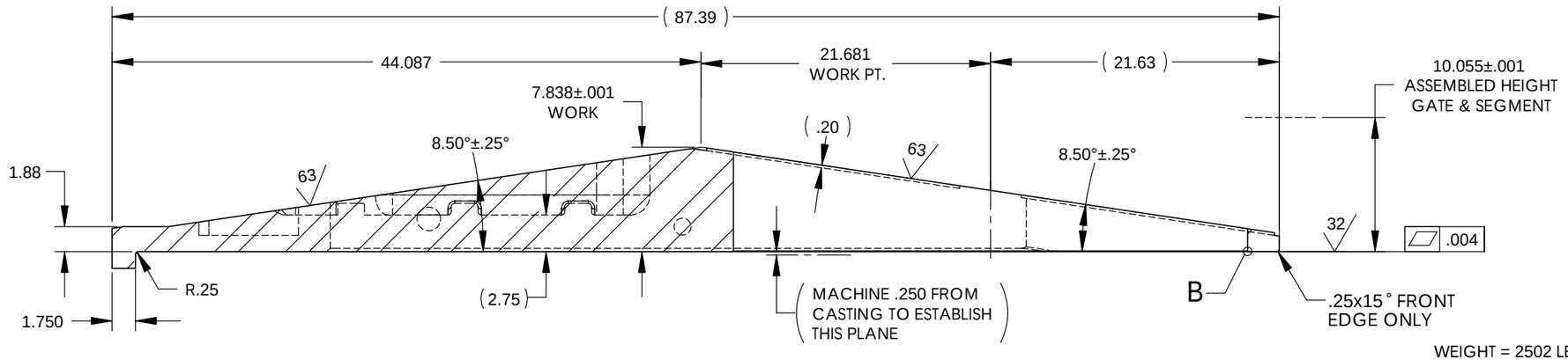
LOC	MARKING DATA
1	EPG4003BCS1 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.







DETAIL B
SCALE 1 : 1



SECTION A-A

WEIGHT = 2502 LBS

USE CASTING DWG. NO. EPG4201BCS1-CAST

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	X	ADDED CHAMFER TO BORE ID	04-DEC-19	TM	JM
0	X	RELEASED DRAWING	29-APR-19	TM	JM

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.XX= ±.015
.XXX= ±.005
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS FINISH
CONCENTRICITY= ±.002 T.I.R.
BREAK ALL SHARP EDGES

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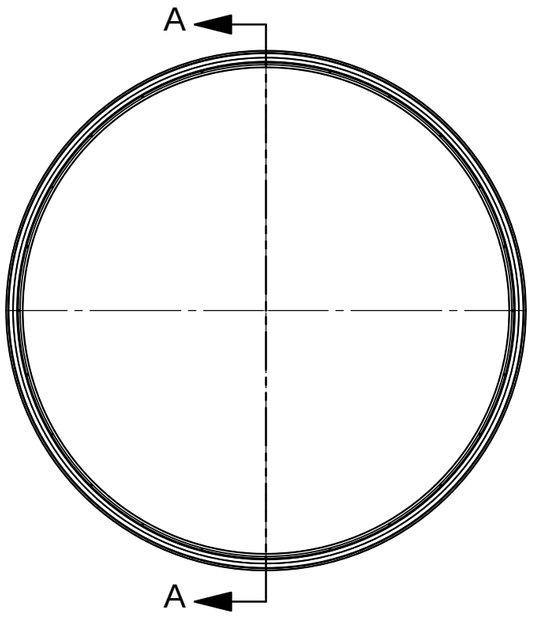
DRAWN TM	29-APR-19
CHECKED JS	29-APR-19
APPROVED JM	29-APR-19
SHEET 1 OF 1	
WEIGHT:	THIRD ANGLE PROJECTION

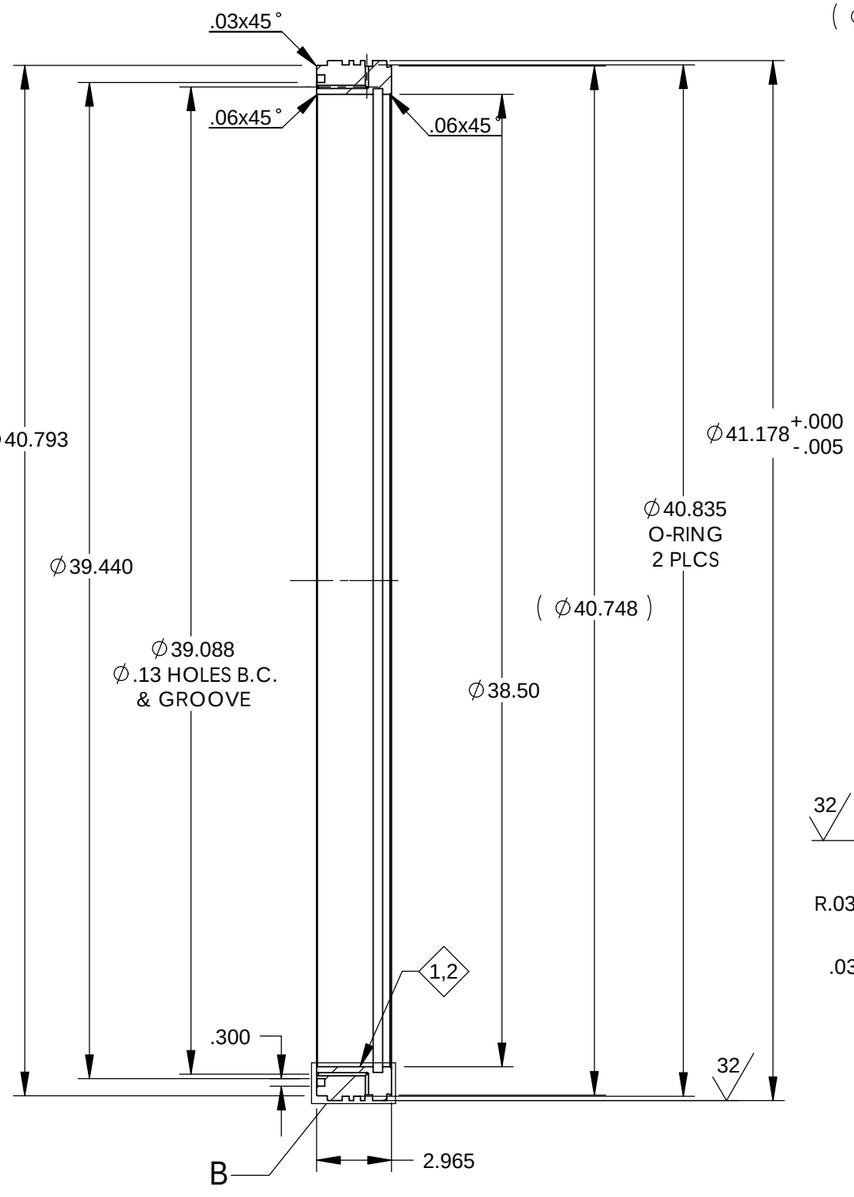
SCV Valve

DESCRIPTION
SEGMENT MACHINING
40" 300#
EXPANDING GATE VALVE

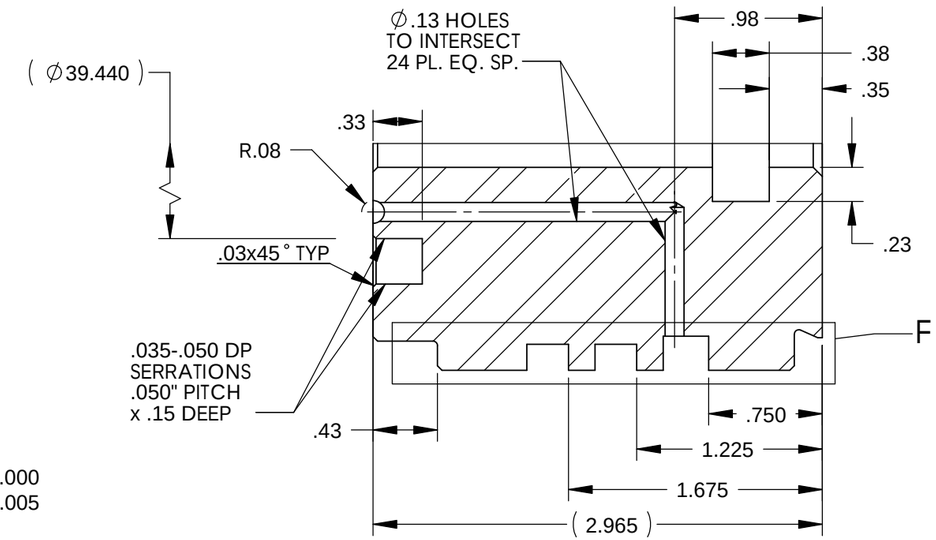
SIZE B | P/N **EPG4003BCS1** | REV. 1

LOC	MARKING DATA
1	EPG4003BD01 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.

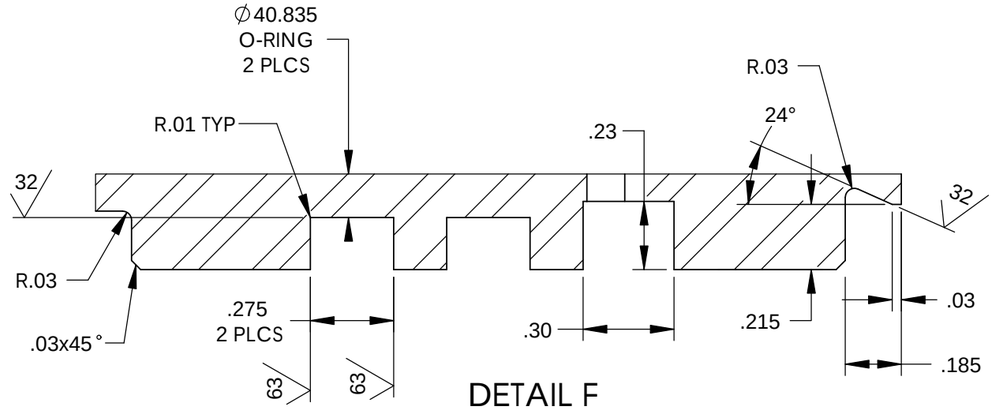




SECTION A-A



DETAIL B
SCALE 1 : 1



DETAIL F
SCALE 2 : 1

-SPECIAL O-RINGS
.210 C.S. x 40.25 ±0.25 I.D.

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
0	X	RELEASED DRAWING	06-APR-19	TM	JM

REVISION

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DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
.X= ±.030
.XX= ±.015
.XXX= ±.005
ANGULAR= ±1°
MACHINED SURFACES TO HAVE
125 RMS FINISH
CONCENTRICITY= ±.002 T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

DRAWN TM	06-APR-19
CHECKED JS	06-APR-19
APPROVED JM	06-APR-19
SHEET 1 OF 1	
WEIGHT:	

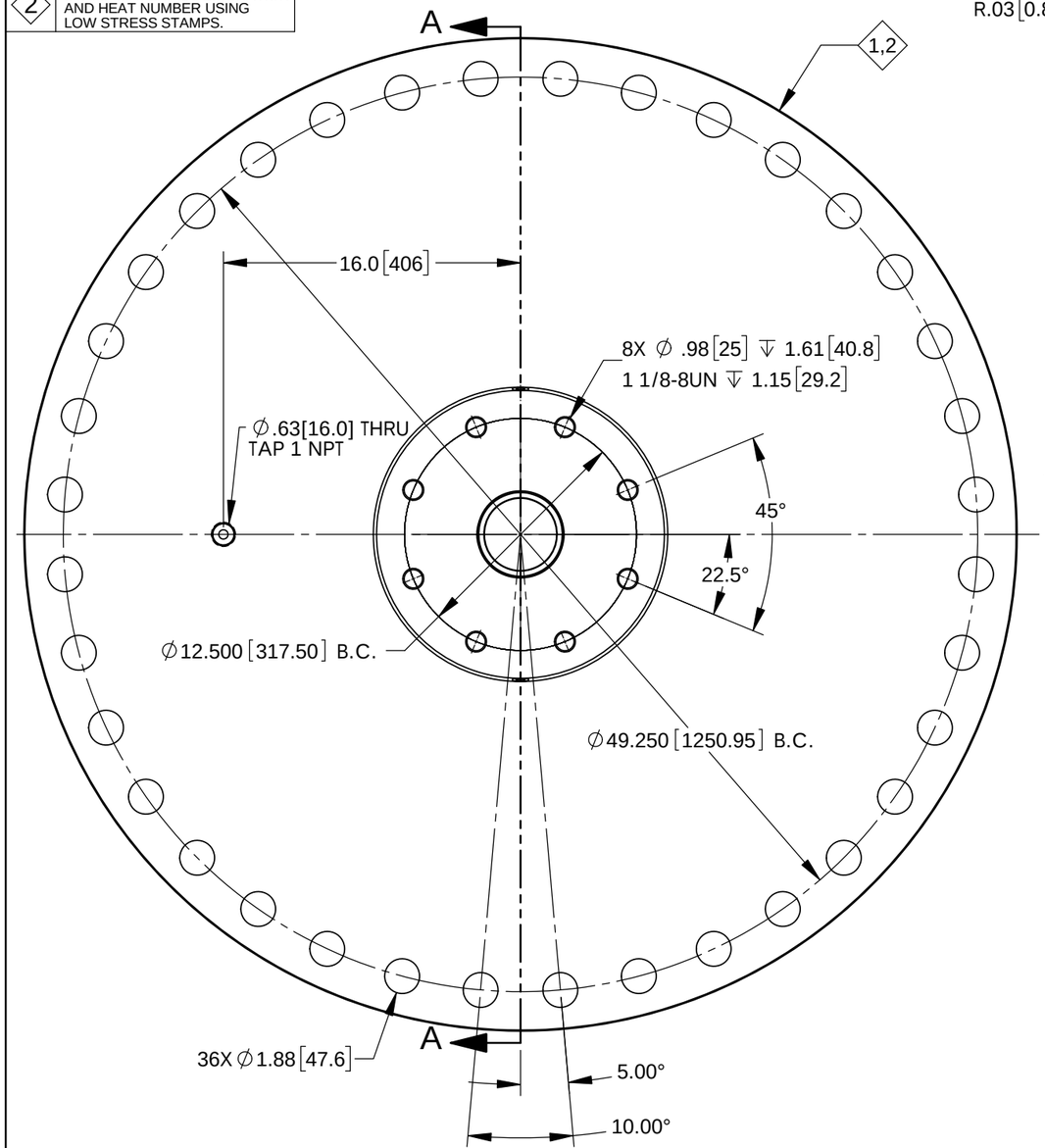
THIRD ANGLE PROJECTION

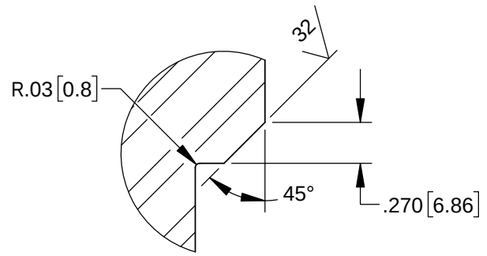
SCV Valve

DESCRIPTION
SEAT
40" 300#
EXPANDING GATE VALVE

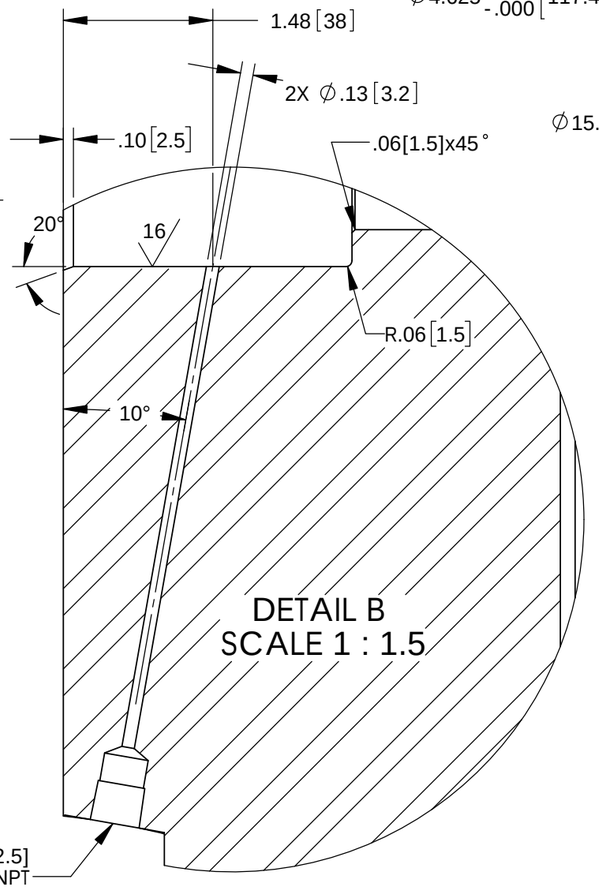
SIZE	P/N	REV.
B	EPG4003BD01	0

LOC	MARKING DATA
1	EPG4003BE01 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.

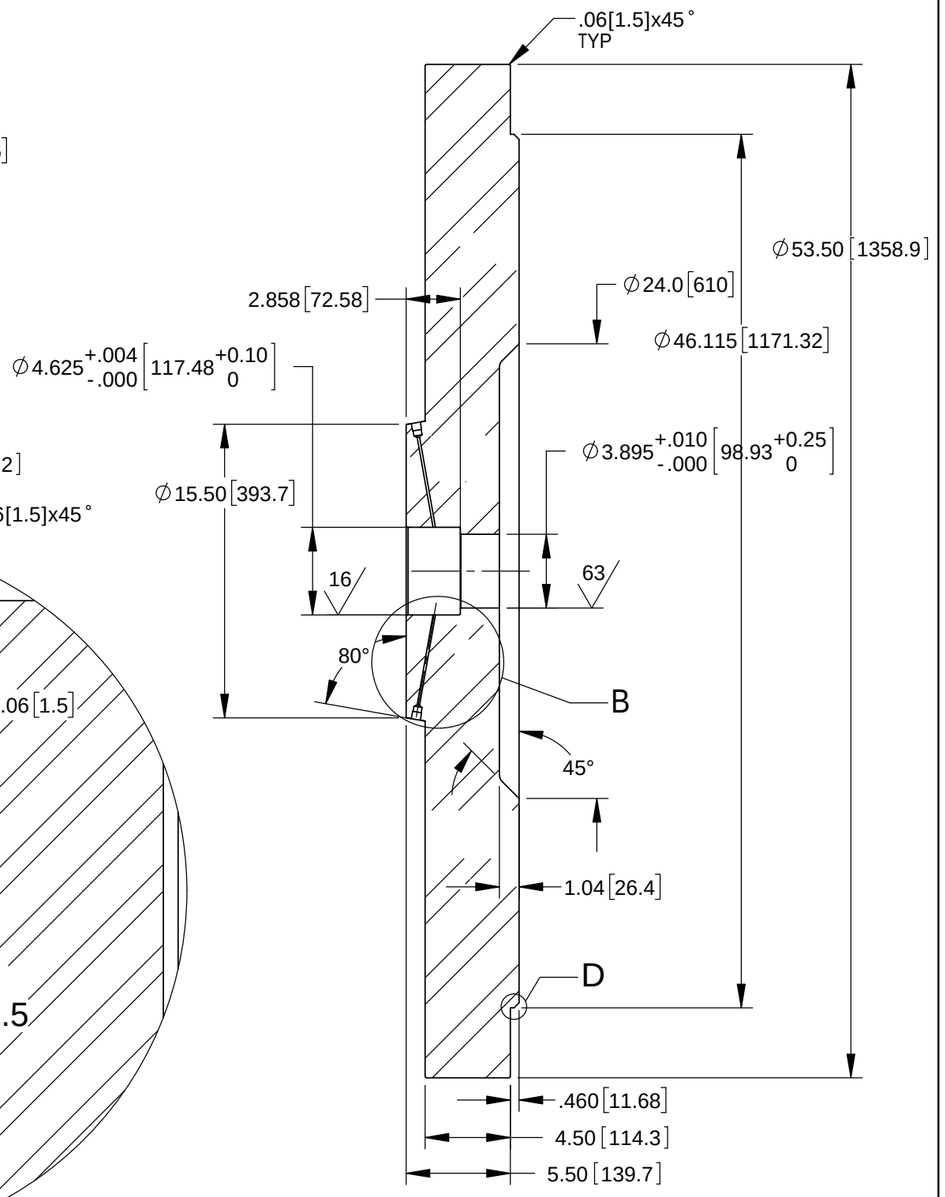




DETAIL D
SCALE 1 : 1



DETAIL B
SCALE 1 : 1.5



SECTION A-A

WEIGHT = 2861 LBS

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
0	X	RELEASED DRAWING	19-APR-19	RD	JM

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TOLERANCES ARE:
.X= ±.030 [0.8]
.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

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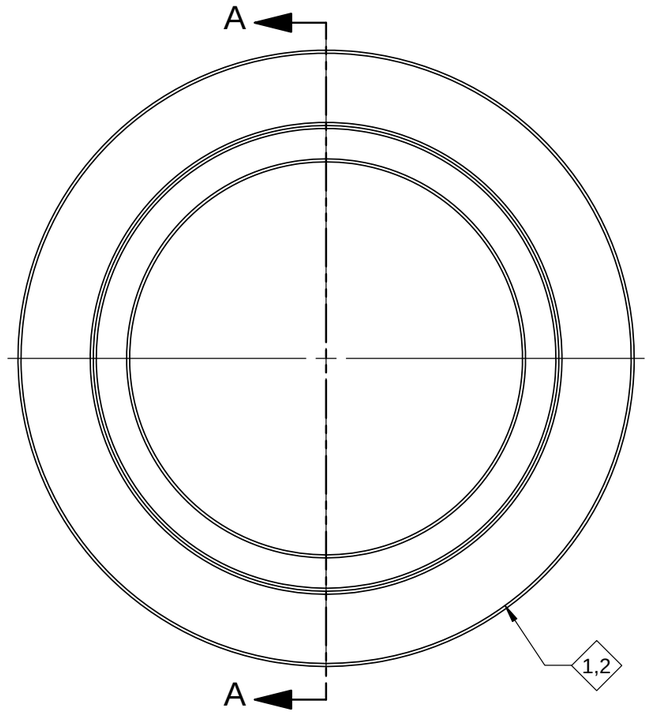
DRAWN	RD	19-APR-19
CHECKED	JS	19-APR-19
APPROVED	JM	19-APR-19
SHEET 1 OF 1		
WEIGHT:		THIRD ANGLE PROJECTION

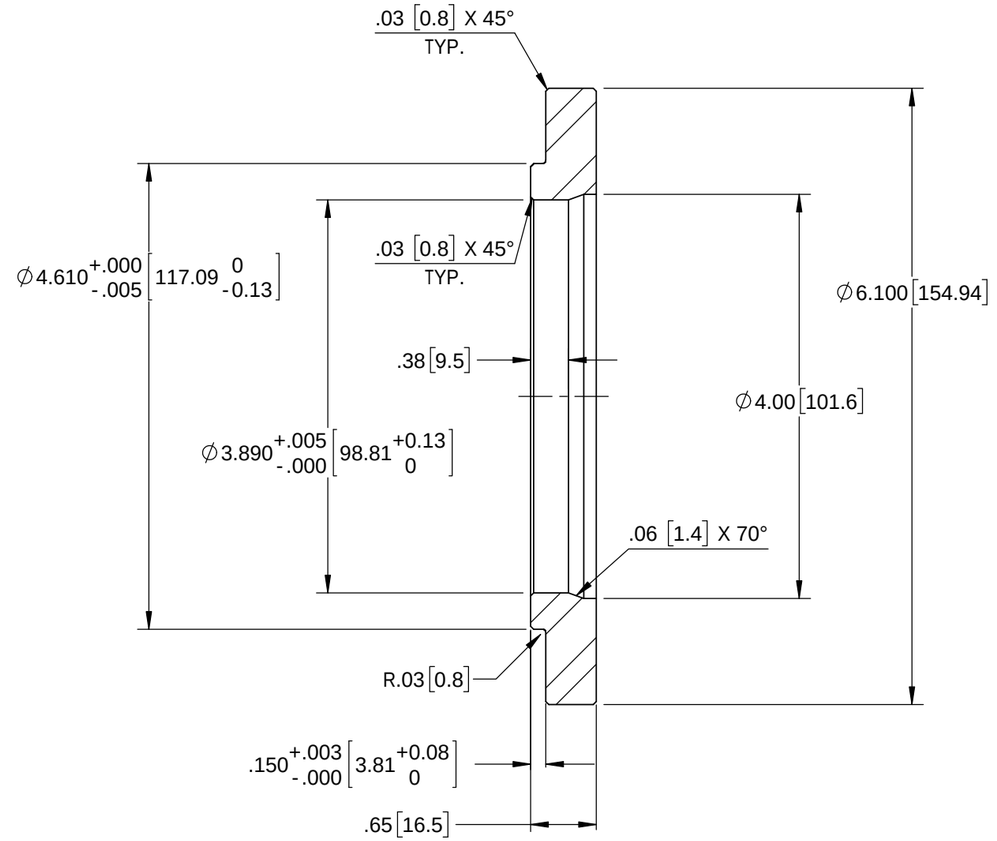
SCV Valve

DESCRIPTION
40" 300#
EXPANDING GATE
BONNET

SIZE	P/N	REV.
B	EPG4003BE01	0

LOC	MARKING DATA
1	EPG4003BG01 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.





SECTION A-A
SCALE 1 : 1.5

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
0	X	RELEASED DRAWING	06-APR-19	TM	TM

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.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

DRAWN	TM 06-APR-19
CHECKED	JS 06-APR-19
APPROVED	TM 06-APR-19
SHEET 1 OF 1	
WEIGHT:	

THIRD ANGLE PROJECTION

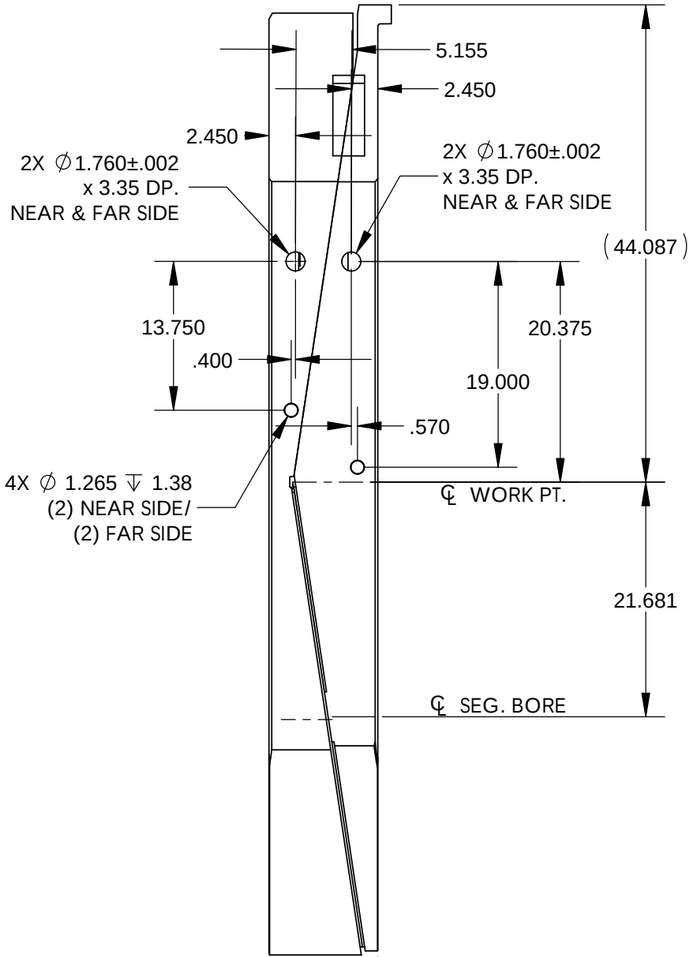
SCV Valve

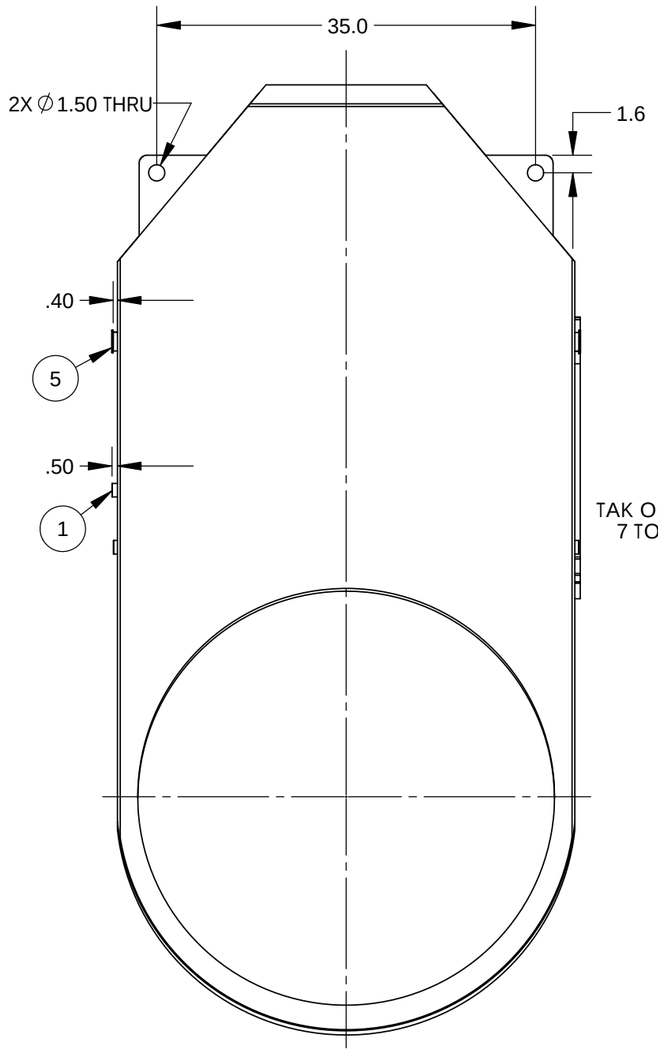
DESCRIPTION
GLAND
40" 300#
EPG GATE VALVE

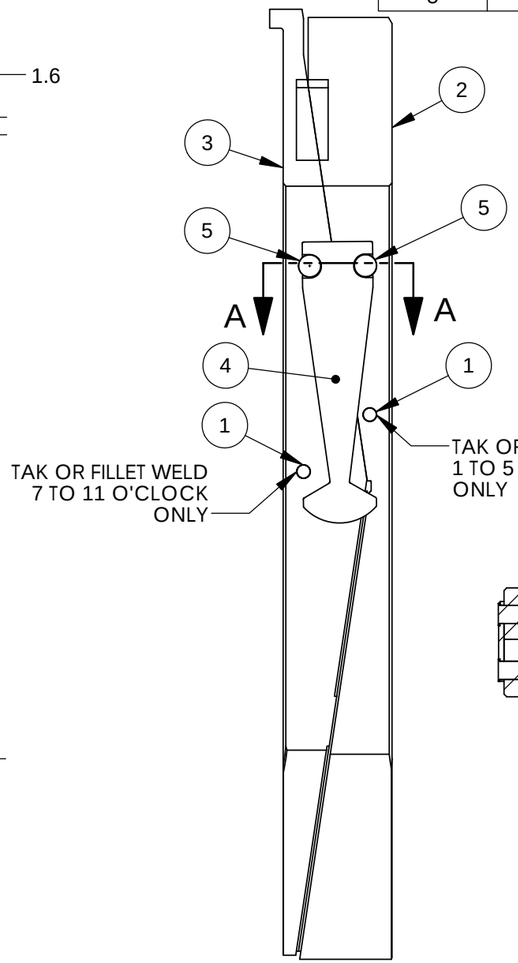
SIZE	P/N	REV.
B	**EPG4003BG01**	**0**

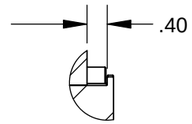
LOC	MARKING DATA
1	EPG4003BH01 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	4	00061216	DOWEL PIN
2	1	EPG4003BCG1	GATE
3	1	EPG4003BCS1	SEGMENT
4	2	EPG4001BFA1	LEVER LOCK ARM
5	4	EPG4001BFP1	LEVER ARM PIN

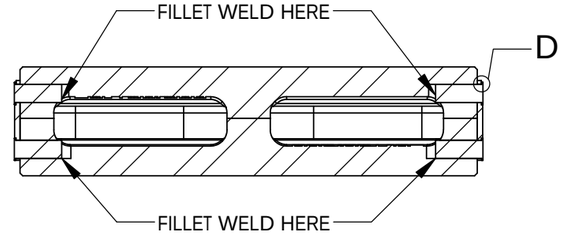




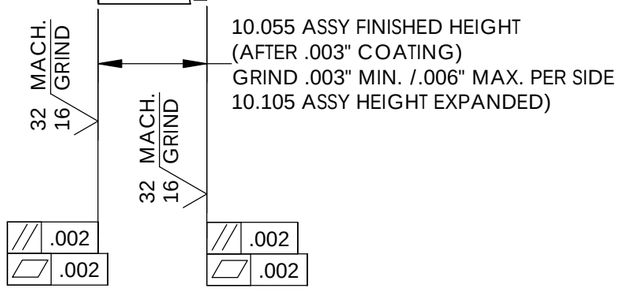




DETAIL D
SCALE 1 : 3



SECTION A-A



WEIGHT = 5068 LBS

NOTES:
1. FINAL GRINDING TO BE PERFORMED WITH ASSEMBLY IN THE EXPANDED POSITION (10.105) WITH GATE/SEGMENT TAK WELDED TOGETHER.

2. DRILL/REAM HOLES SHOWN WITH ASSEMBLY IN THE TRAVEL POSITION (10.055).

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
0	X	RELEASED DRAWING	29-APR-19	TM	JM

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.XX= ±.015
.XXX= ±.005
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS FINISH
CONCENTRICITY= ±.002 T.I.R.
BREAK ALL SHARP EDGES

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DRAWN	TM	29-APR-19
CHECKED	JS	29-APR-19
APPROVED	JM	29-APR-19
SHEET 1 OF 1		
WEIGHT:		

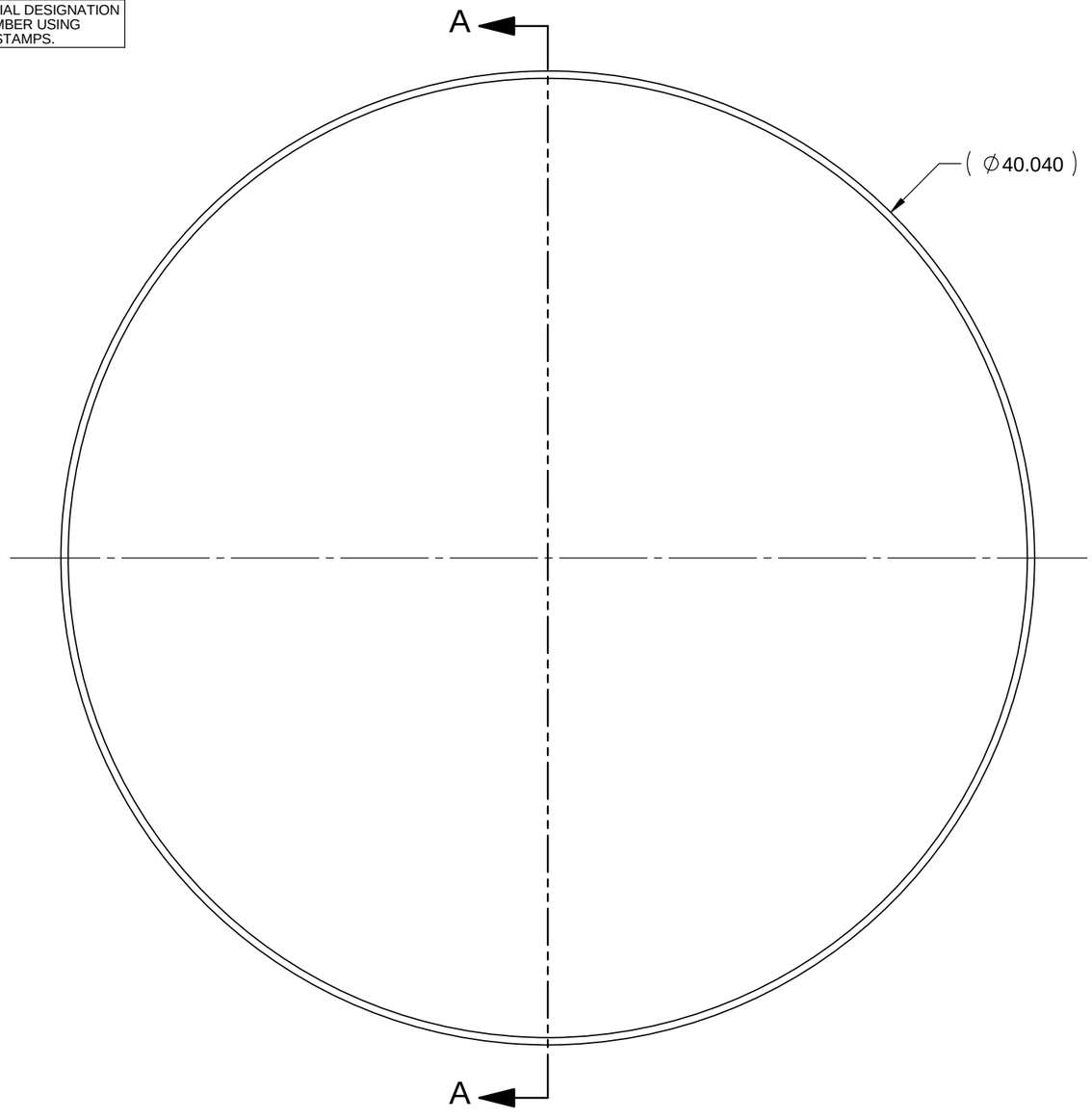
THIRD ANGLE PROJECTION

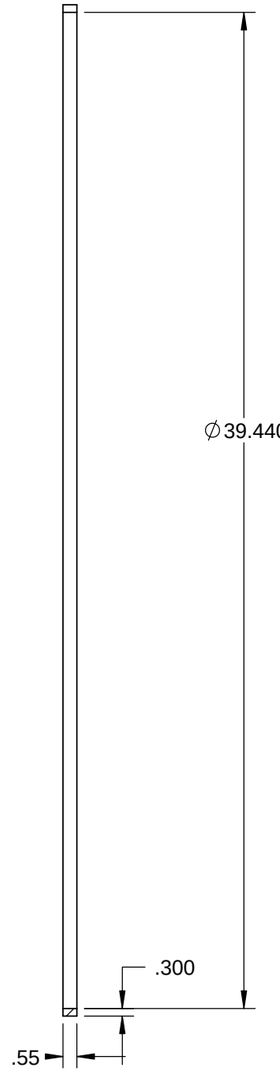
SCV Valve

DESCRIPTION
GATE & SEGMENT ASSEMBLY
40" 300#
EXPANDING GATE VALVE

SIZE	P/N	REV.
B	EPG4003BH01	0

LOC	MARKING DATA
1	EPG4003BJ01 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.





SECTION A-A

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
0	X	RELEASED DRAWING	19-APR-19	RD	JM

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.XX= ±.015
.XXX= ±.005
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS FINISH
CONCENTRICITY= ±.002 T.I.R.
BREAK ALL SHARP EDGES

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DRAWN	RD 19-APR-19
CHECKED	JS 19-APR-19
APPROVED	JM 19-APR-19
SHEET 1 OF 1	
WEIGHT:	

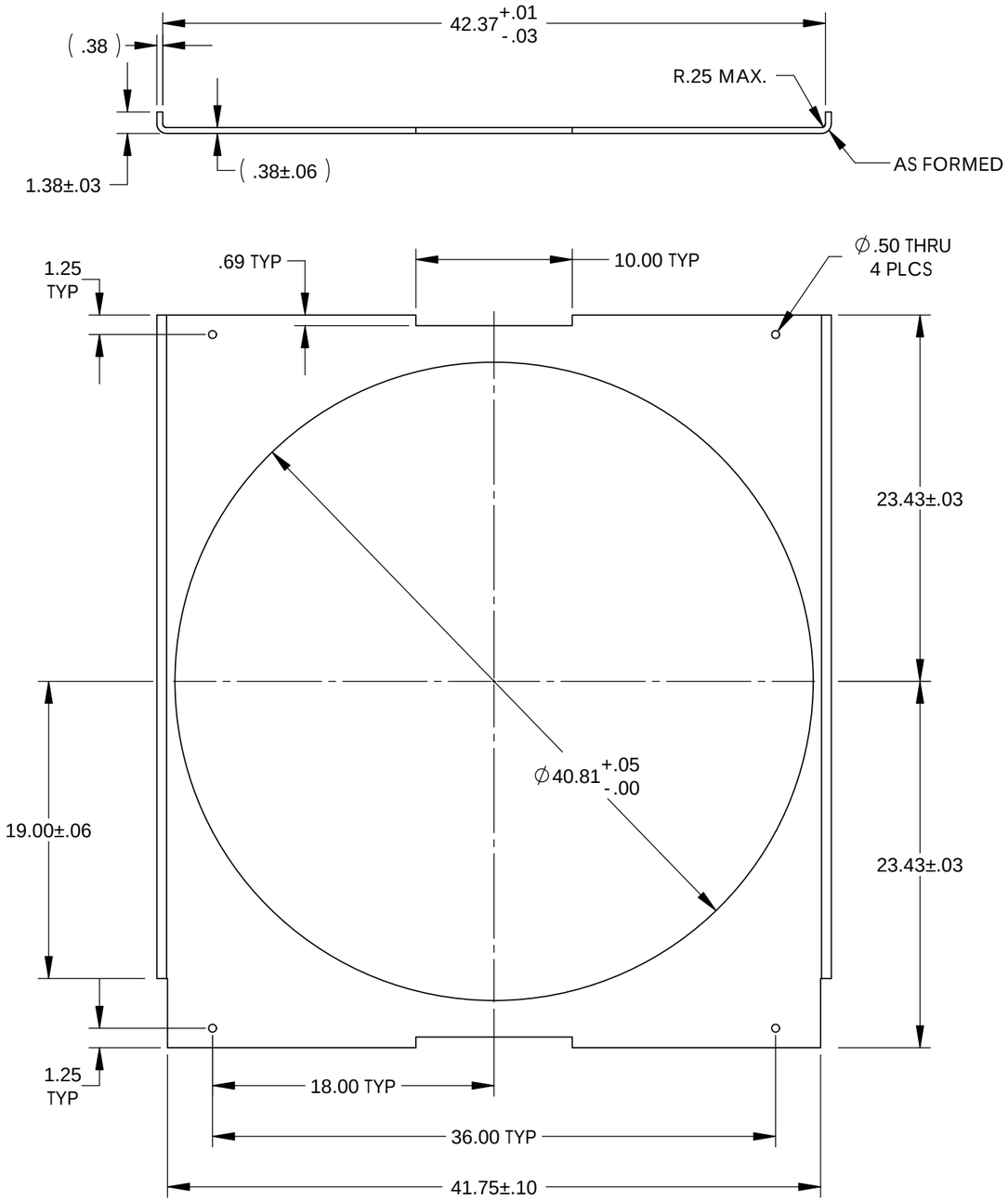
THIRD ANGLE PROJECTION

SCV Valve

DESCRIPTION
SEAT INSERT
40" 300#
EXPANDING GATE

SIZE	P/N	REV.
B	**EPG4003BJ01**	**0**

LOC	MARKING DATA
1	EPG4003BK01 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.



WEIGHT = 81 LBS

BEND FROM 3/8" PLATE

DEBURR ALL EDGES

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
0	X	RELEASED DRAWING	06-APR-19	TM	JM

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.XXX= ±.005
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS FINISH
CONCENTRICITY= ±.002 T.I.R.
BREAK ALL SHARP EDGES

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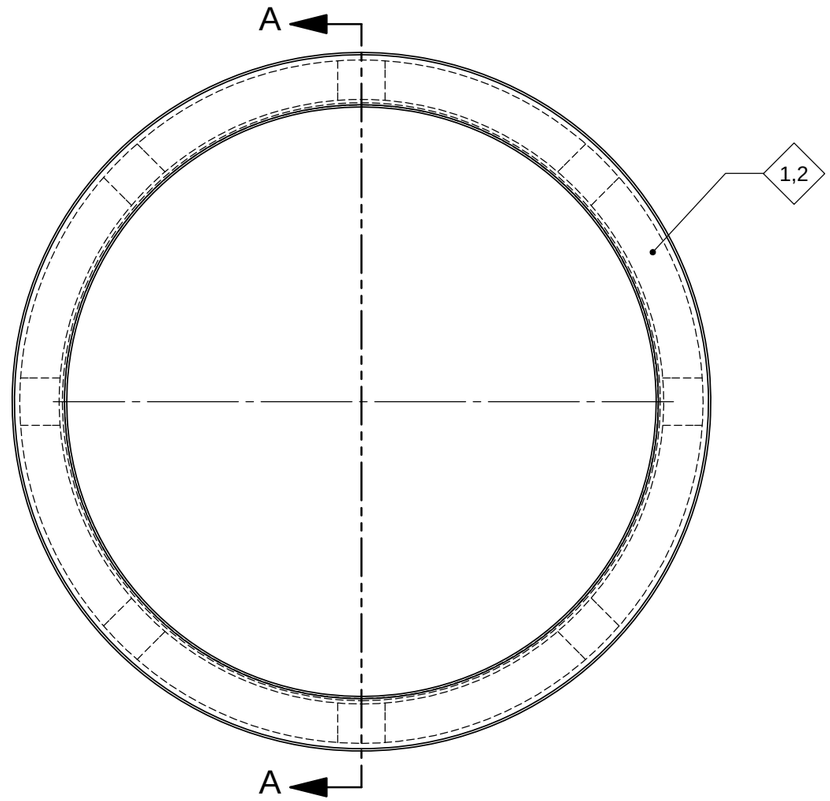
DRAWN	TM	06-APR-19
CHECKED	JS	06-APR-19
APPROVED	JM	06-APR-19
SHEET 1 OF 1		
WEIGHT:		THIRD ANGLE PROJECTION

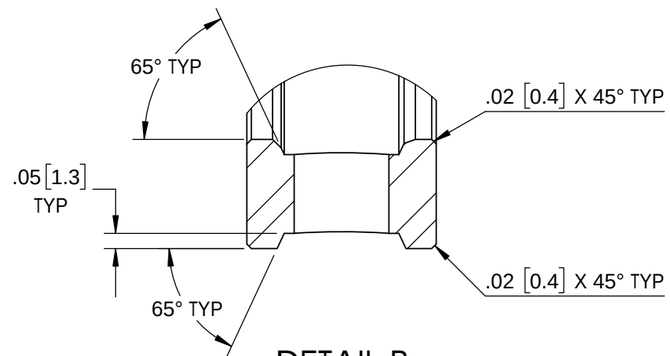
SCV Valve

DESCRIPTION
SKIRT
40" 300#
EXPANDING GATE

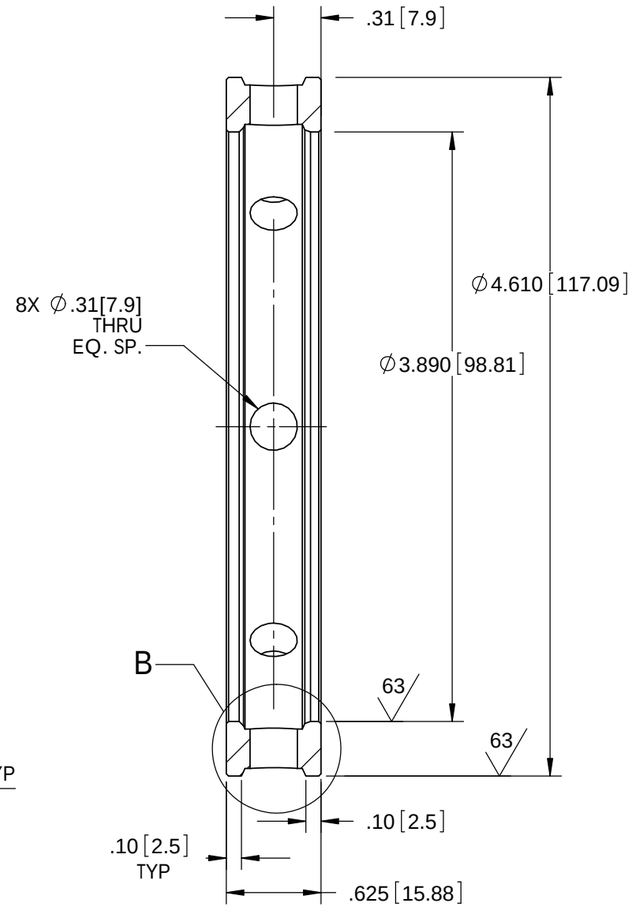
SIZE	P/N	REV.
B	**EPG4003BK01**	**0**

LOC	MARKING DATA
1	EPG4003BL01 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.





DETAIL B
SCALE 2 : 1



SECTION A-A

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
0	X	RELEASED DRAWING	06-APR-19	RD	JM

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.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

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DRAWN	RD 06-APR-19
CHECKED	JS 06-APR-19
APPROVED	JM 06-APR-19
SHEET 1 OF 1	
WEIGHT:	

THIRD ANGLE PROJECTION

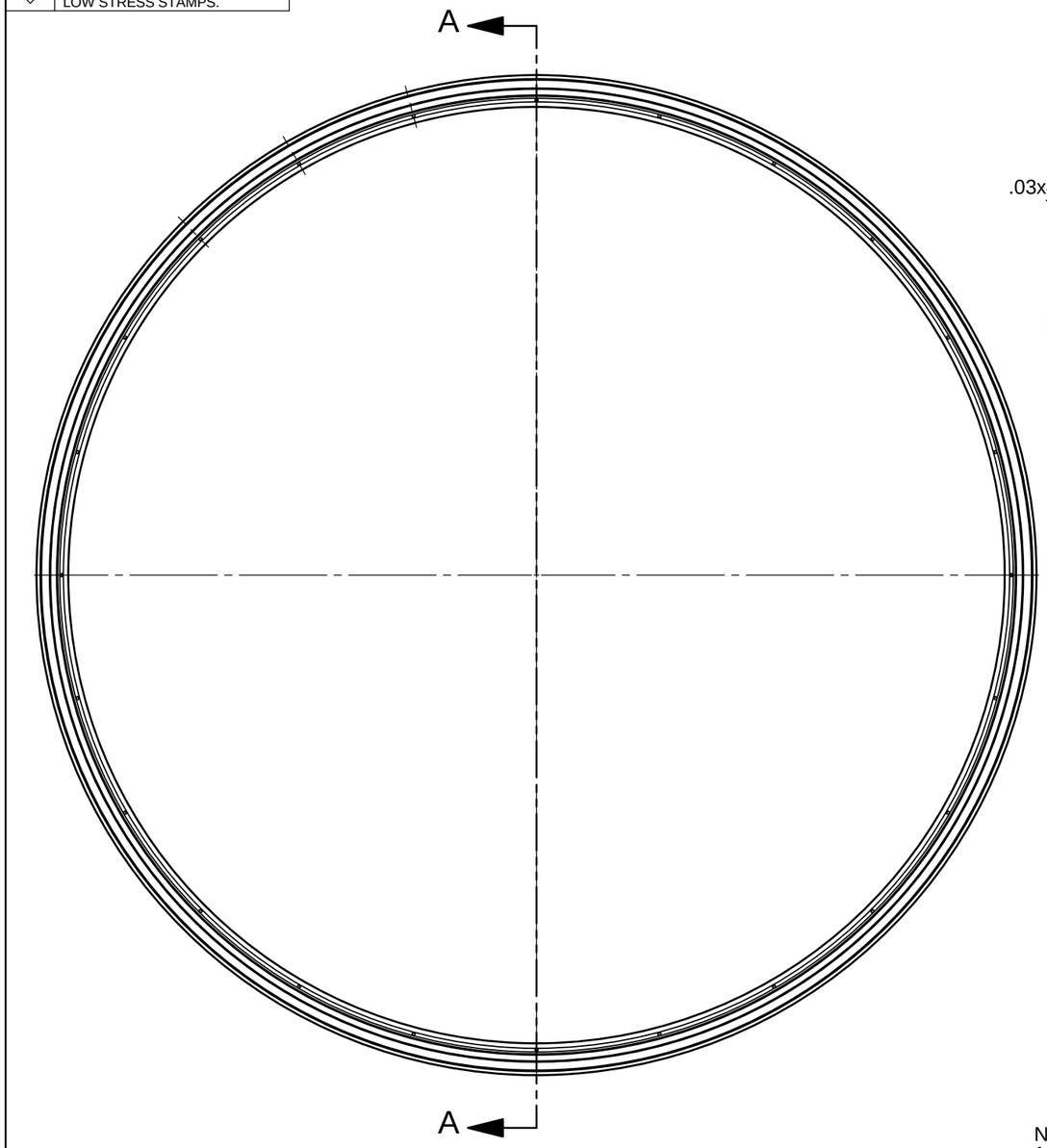
SCV Valve

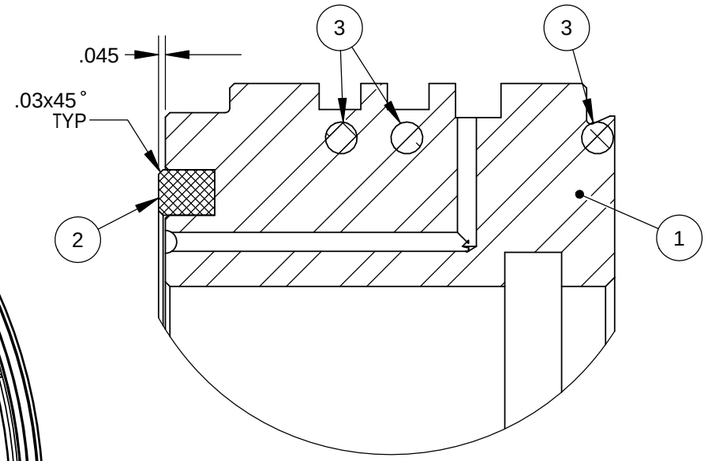
DESCRIPTION
LANTERN RING
40" 300#
EPG GATE

SIZE	P/N	REV.
B	**EPG4003BL01**	**0**

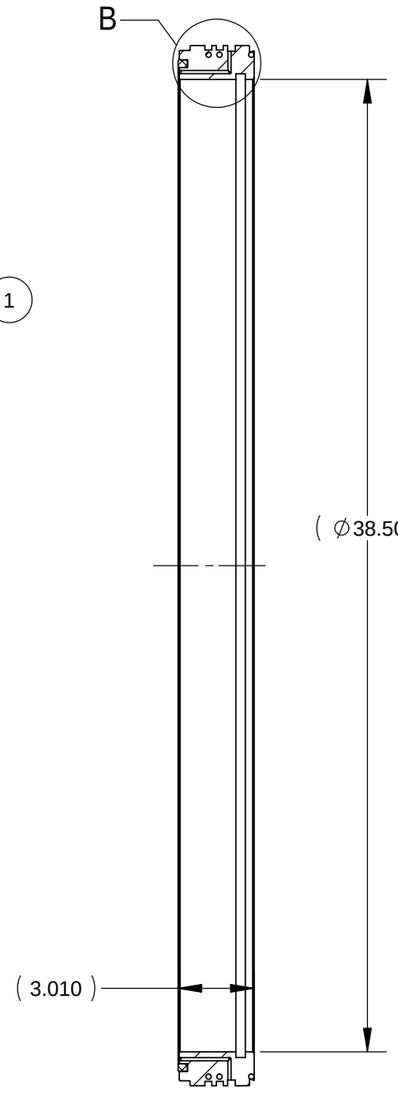
LOC	MARKING DATA
1	EPG4003BR01 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.

ITEM NO.	QTY.	Revision	PART NUMBER	DESCRIPTION
1	1	0	EPG4003BD01	SEAT
2	1	0	EPG4003BJ01	SEAT INSERT
3	3		0001-3-4025	O-RING





DETAIL B
SCALE 1 : 1



SECTION A-A

NOTES:
1. INSERT TO BE PRESSED INTO GROOVE WITH 20,000 LBF. THEN MACHINED AS SHOWN

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
0	X	RELEASED DRAWING	19-APR-19	RD	JM

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.XX= ±.015
.XXX= ±.005
ANGULAR= ±1°
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CONCENTRICITY= ±.002 T.I.R.
BREAK ALL SHARP EDGES

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DRAWN	RD 19-APR-19
CHECKED	JS 19-APR-19
APPROVED	JM 19-APR-19
SHEET 1 OF 1	
WEIGHT:	

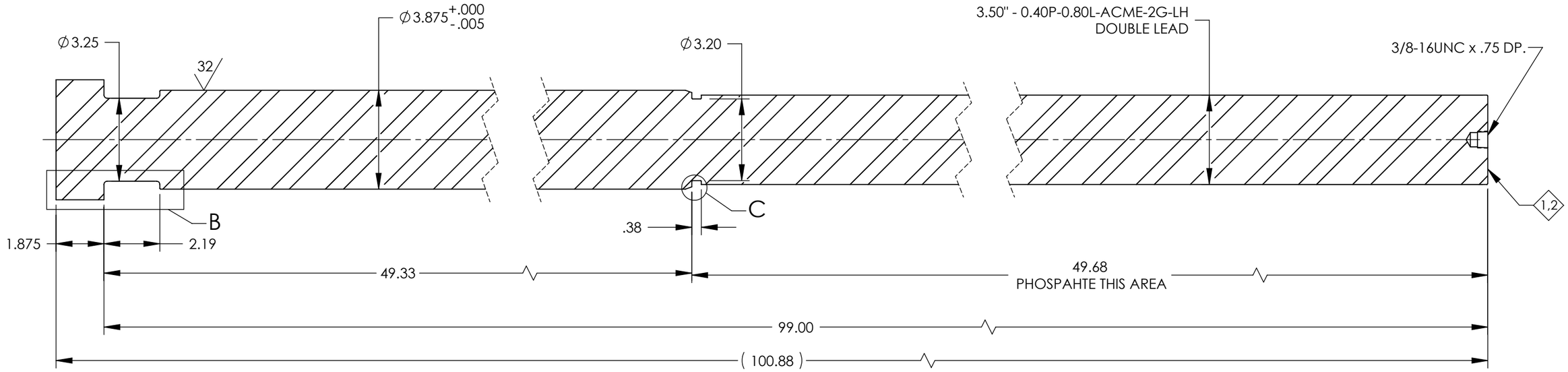
THIRD ANGLE PROJECTION

SCV Valve

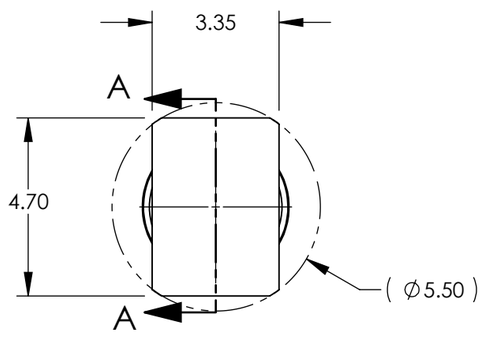
DESCRIPTION
SEAT ASSEMBLY
40" 300#
EXPANDING GATE VALVE

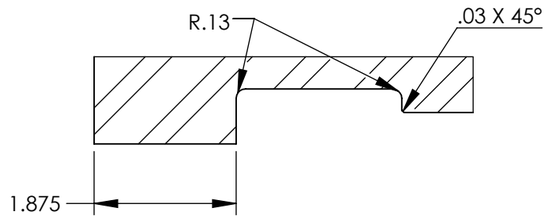
SIZE	P/N	REV.
B	**EPG4003BR01**	**0**

LOC	MARKING DATA
1	EPG4003BST1 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.

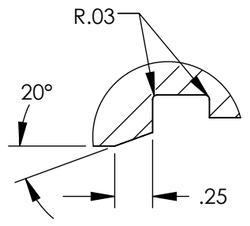


SECTION A-A





DETAIL B
SCALE 1 : 2



DETAIL C
SCALE 1 : 1

WEIGHT = 304 LBS

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	11383	SEE ECN	11-JUN-20	TM	JM
0	X	RELEASED DRAWING	19-APR-19	TM	JM

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.XXX= ±.005
ANGULAR= ±1°
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125 RMS FINISH
CONCENTRICITY= ±.002 T.I.R.
BREAK ALL SHARP EDGES

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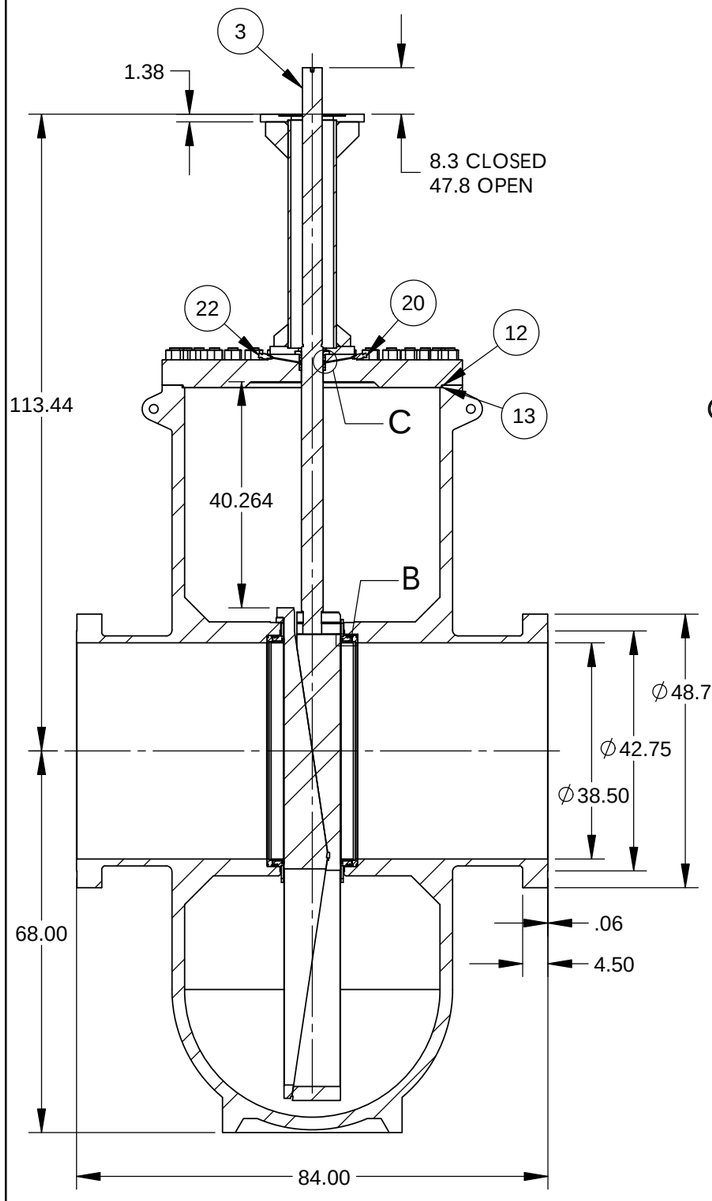
DRAWN	TM 19-APR-19
CHECKED	JS 19-APR-19
APPROVED	JM 19-APR-19
SHEET 1 OF 1	
WEIGHT:	

THIRD ANGLE PROJECTION

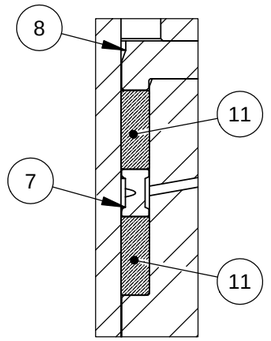
SCV Valve

DESCRIPTION
STEM - DBL LEAD
40" 300#
EXPANDING GATE VALVE

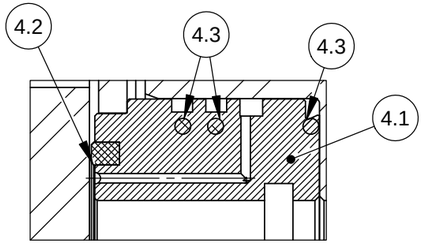
SIZE	P/N	REV.
B	EPG4003BST1	1



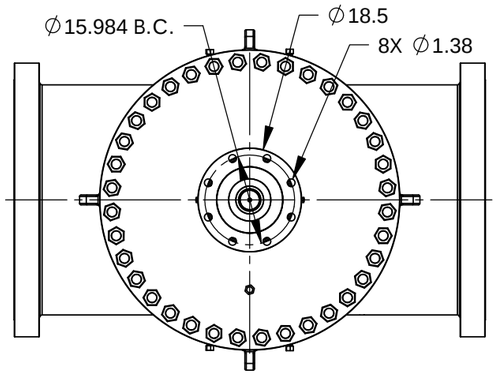
SECTION A-A



DETAIL C
SCALE 1 : 2



DETAIL B
SCALE 1 : 2



ITEM NO.	QTY.	Rev	PART NUMBER	DESCRIPTION
1	1	0	EPG4003BBR01	BODY
2	1	0	EPG4003BE01	BONNET
3	1	1	EPG4003BST1	STEM
4	2	0	EPG4003BR01	SEAT ASSY
4.1	1	0	EPG4003BD01	SEAT
4.2	1	0	EPG4003BJ01	SEAT INSERT
4.3	3		0001-3-4025	O-RING
5	1	0	EPG4003BH01	GATE/SEGMENT ASSY
5.2	1	1	EPG4003BCG1	GATE
5.3	1	1	EPG4003BCS1	SEGMENT
5.4	2	0	EPG4001BFA1	LEVER LOCK ARM
5.5	4	0	EPG4001BFP1	LEVER ARM PIN
5.6	4		00061216	DOWEL PIN
6	1	0	EPG4003BA0H40	YOKE WELDMENT
6.1	1	1	EPG4003BA11	YOKE BASE
6.2	1	0	EPG4003BA13	YOKE TUBE
6.3	1	1	EPG4003BA12	YOKE TOP
6.4	4	0	EPG3603BAS1	H1 GUSSET
6.5	4	0	EPG3603BAS2	H2 GUSSET
7	1	0	EPG4003BL01	LANTERN RING
8	1	0	EPG4003BG01	GLAND
9	2	0	EPG4003BK01	SKIRT
10	1	0	EPG4001BZ01	BODY STOP
11	2	X	0018-037-03-141	PACKING
12	1	X	0014-EPG4003	GASKET
13	1		0001-3-4600	O-RING
14	36		0009016-XX-084	STUD
15	36		0020175	HVY HEX NUT
16	8		0009011-XX-040	STUD
17	8		0020112	HVY HEX NUT
18	1		0030-100	NPT PLUG
19	4		0028004	GREASE FITTING, GBH
20	1		0029002	VENT FITTING
21	1		0029010	VENT FITTING
22	1		0032002	PKG INJ FITTING
23	4		0031003	BALL CHECK
24	1	X	0040-010-030	1" T.O.E. NIPPLE
25	1		0039-XX-010	BALL VALVE

FLANGES PER B16.47 - CLASS 300 SERIES A

WEIGHT = 26401 LBS
THREAD = 3.50"-0.40P-0.80L-ACME-2G LH

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
0	X	RELEASED DRAWING	20-NOV-17	JM	CP

REVISION

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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
.X= ±.030
.XX= ±.015
.XXX= ±.005
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS FINISH
CONCENTRICITY= ±.002 T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

DRAWN JM	10-JAN-18
CHECKED JS	10-JAN-18
APPROVED CP	10-JAN-18
SHEET 1 OF 1	
WEIGHT:	THIRD ANGLE PROJECTION

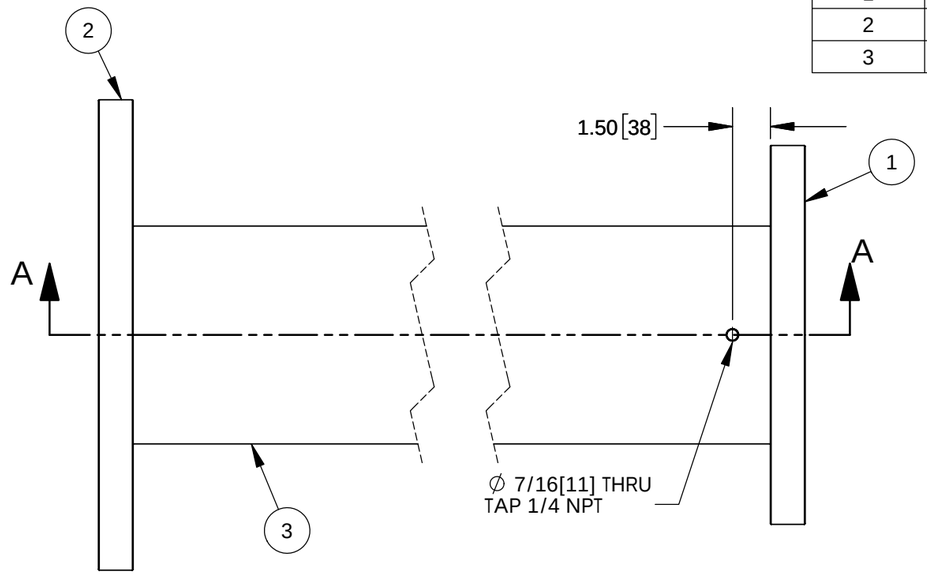
SCV Valve

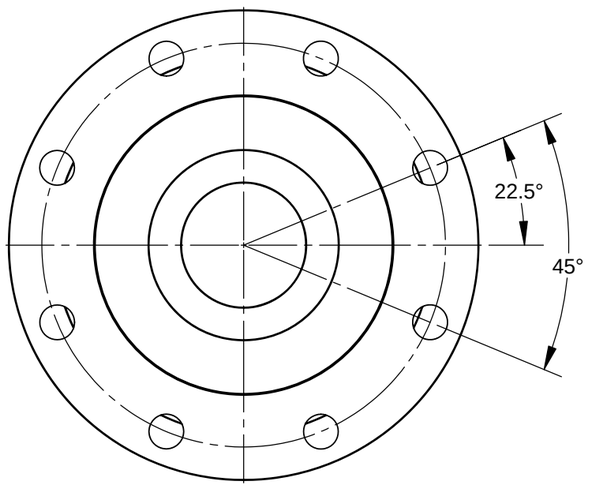
DESCRIPTION
40" 300# RF
SLAB VALVE
ASSEMBLY

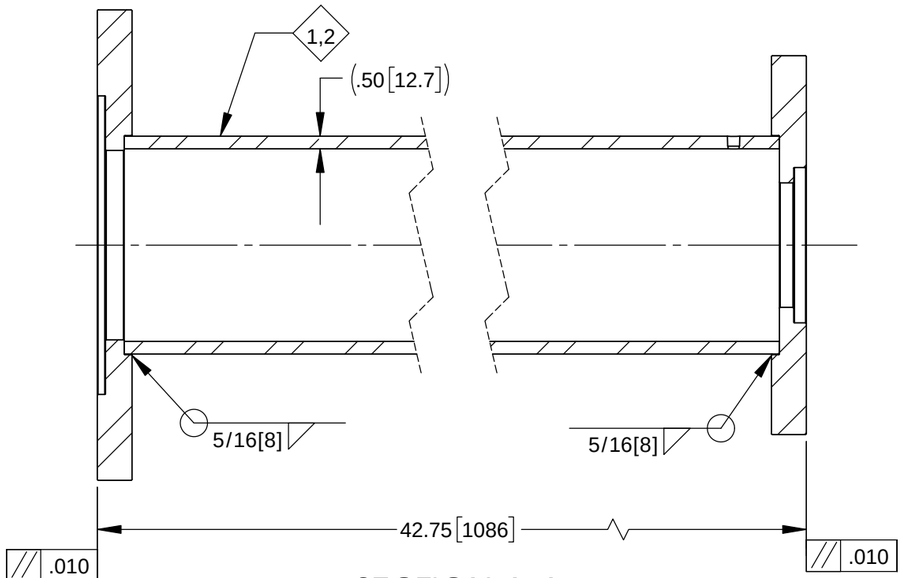
SIZE B | P/N **EPG4003B001RB** | REV. **0**

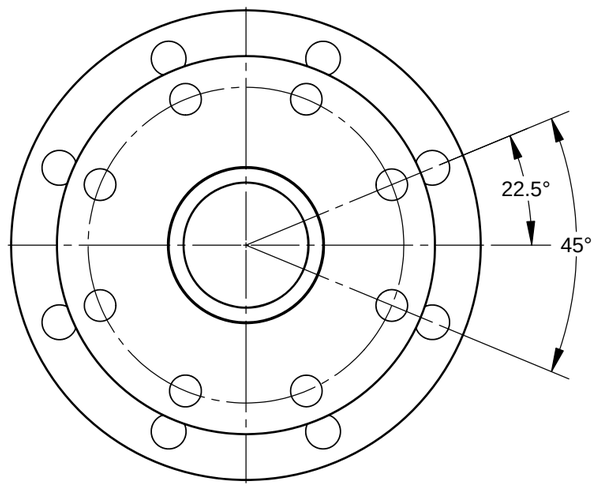
LOC	MARKING DATA
1	EPG4003BA01 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION	Revision
1	1	EPG4003BA11	YOKE BASE	0
2	1	EPG4003BA12	YOKE TOP	0
3	1	EPG4003BA13	YOKE TUBE	0









SECTION A-A

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
0	X	RELEASED DRAWING	5/2/2019	TM	JM

REVISION

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DIMENSIONS ARE IN INCHES [mm]
TOLERANCES ARE:
.X= ±.030 [0.8]
.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

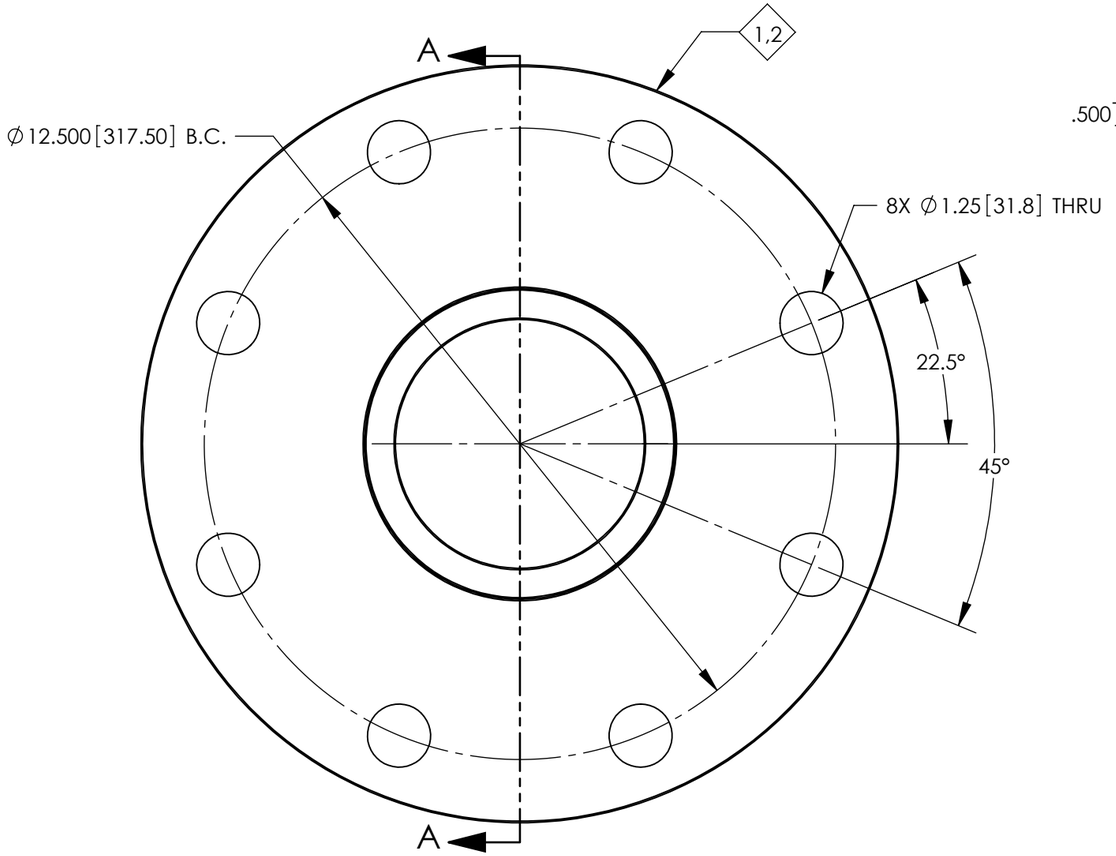
DRAWN TM	5/2/2019
CHECKED JS	5/2/2019
APPROVED JM	5/2/2019
SHEET 1 OF 1	
WEIGHT:	THIRD ANGLE PROJECTION

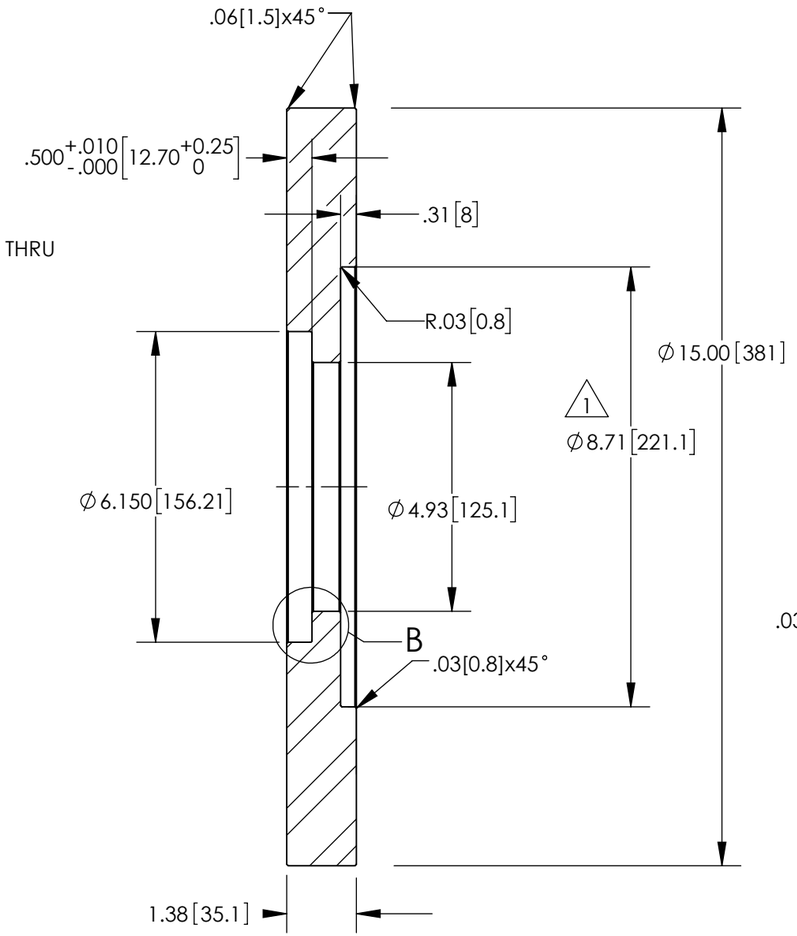
SCV Valve

DESCRIPTION
40" 300#
TCG GATE
YOKE WELDMENT

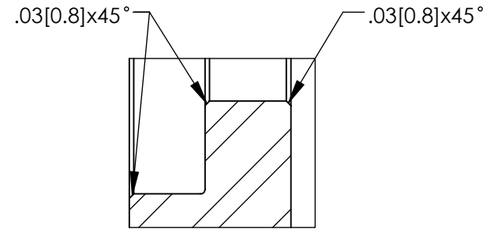
SIZE	P/N	REV.
B	EPG4003BA01	0

LOC	MARKING DATA
1	EPG4003BA11 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.





SECTION A-A



DETAIL B
SCALE 1 : 1

1	11369	SEE ECN	13-APR-20	TM	JM
0	X	RELEASED DRAWING	06-APR-19	TM	JM
REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D

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.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

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DRAWN TM	06-APR-19
CHECKED JS	06-APR-19
APPROVED JM	06-APR-19
SHEET 1 OF 1	
WEIGHT:	

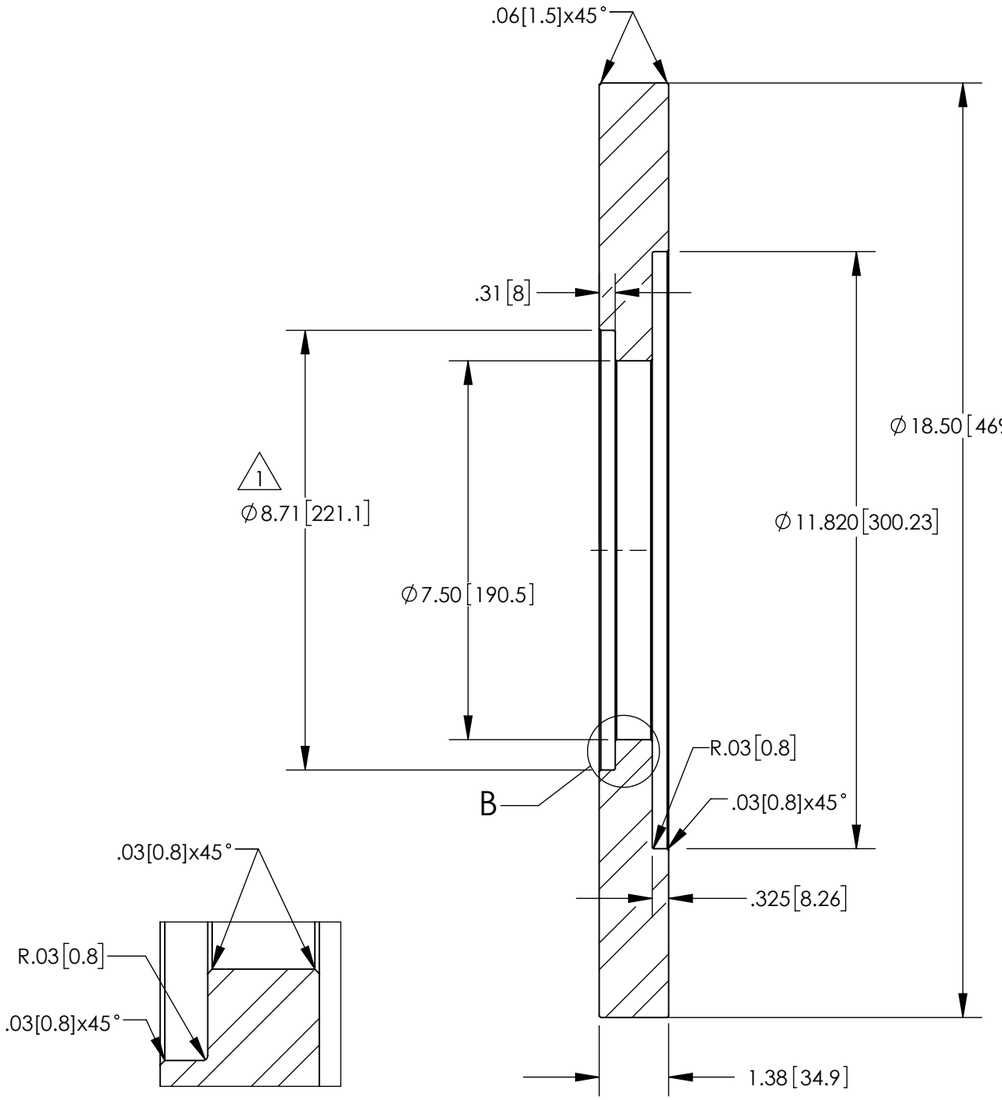
THIRD ANGLE PROJECTION

SCV Valve

DESCRIPTION
40" 300#
EPG GATE
YOKE BASE

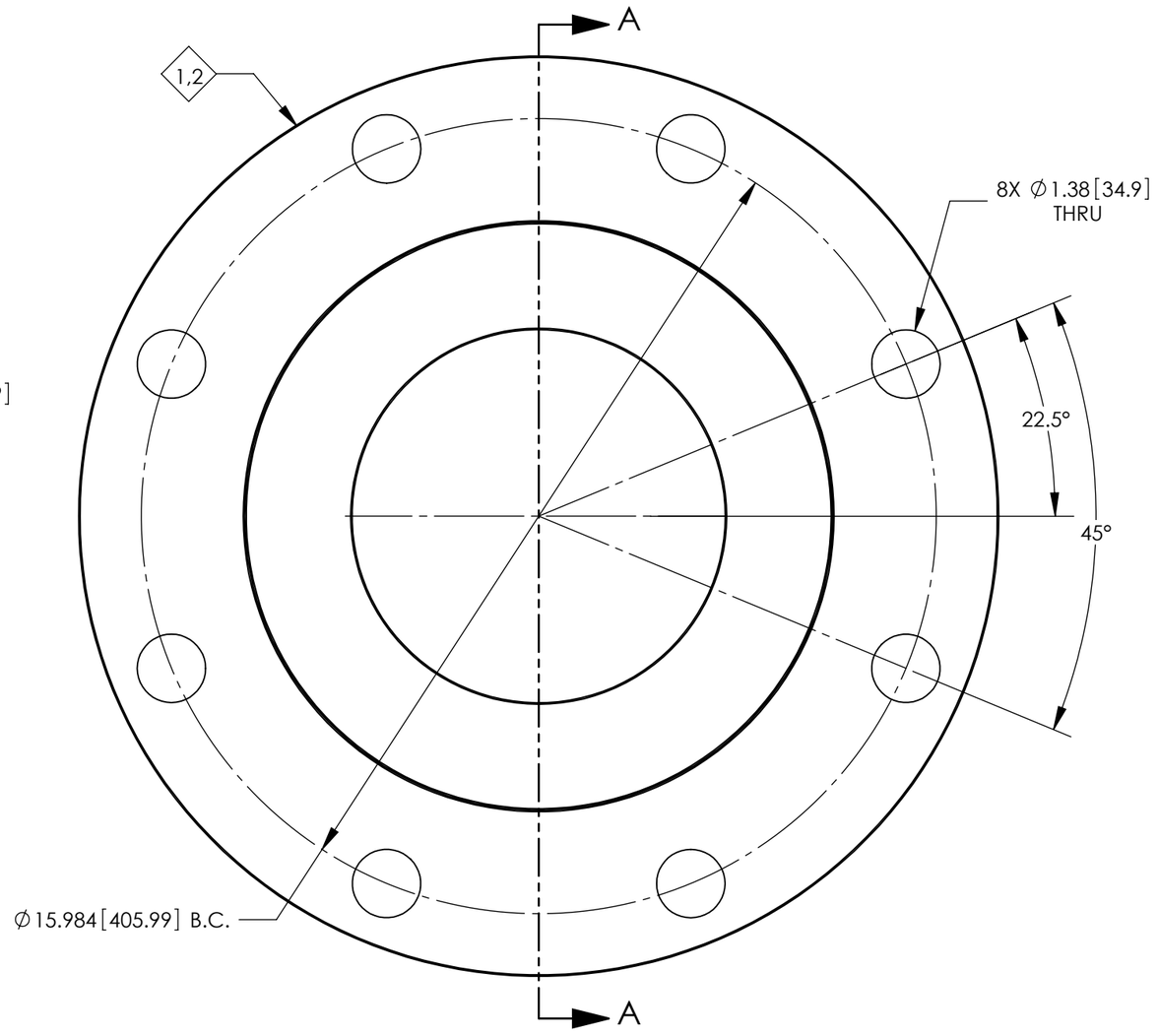
SIZE B | P/N **EPG4003BA11** | REV. 1

LOC	MARKING DATA
1	EPG4003BA12 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.



DETAIL B
SCALE 1 : 1

SECTION A-A



REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	11369	SEE ECN	13-APR-20	TM	JM
0	X	RELEASED DRAWING	06-APR-19	TM	JM

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.X= ±.030 [0.8]
.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

DRAWN	TM	06-APR-19
CHECKED	JS	06-APR-19
APPROVED	JM	06-APR-19

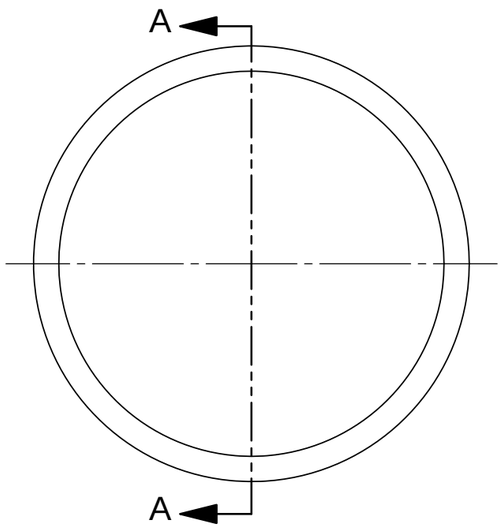
SHEET 1 OF 1
WEIGHT:
THIRD ANGLE PROJECTION

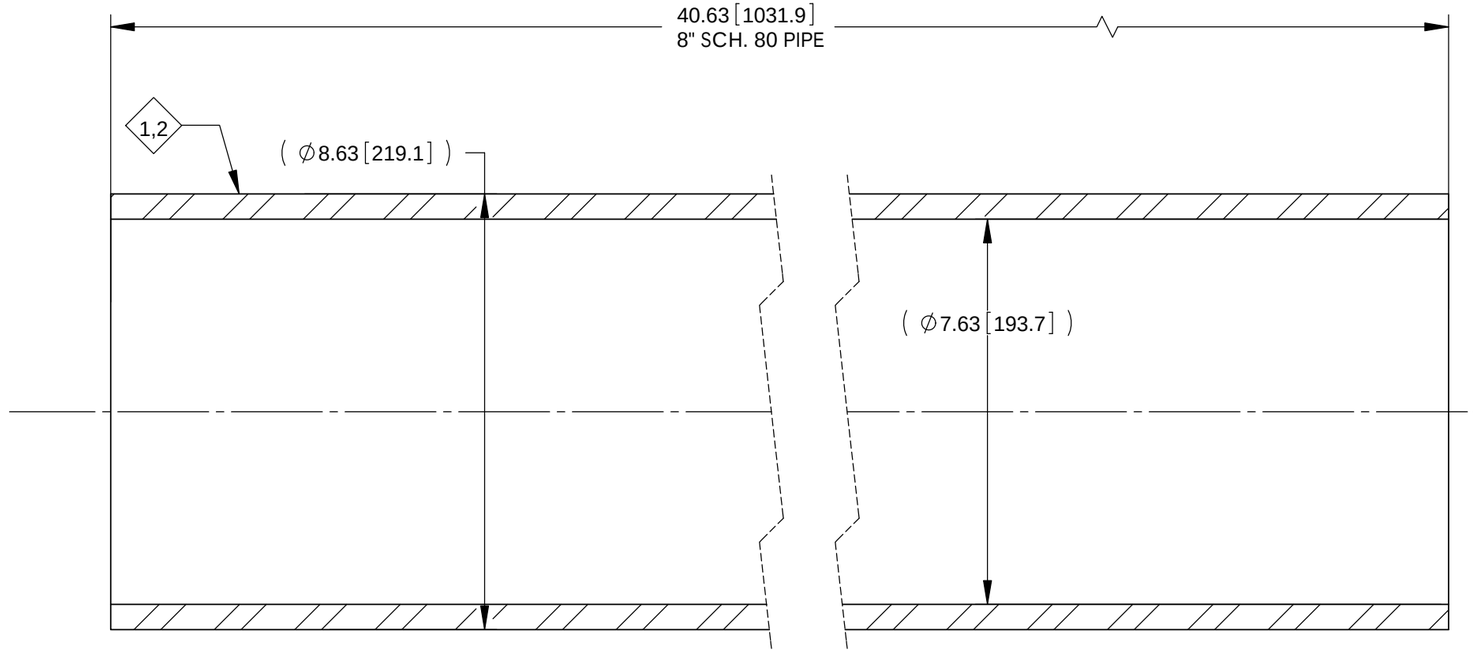
SCV Valve

DESCRIPTION
40" 300#
EPG GATE
YOKE TOP - FA40

SIZE B | P/N **EPG4003BA12** | REV. 1

LOC	MARKING DATA
1	EPG4003BA13 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.





SECTION A-A

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
0	X	RELEASED DRAWING	06-APR-19	TM	JM

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.X= ±.030 [0.8]
.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

DRAWN	TM	06-APR-19
CHECKED	JS	06-APR-19
APPROVED	JM	06-APR-19

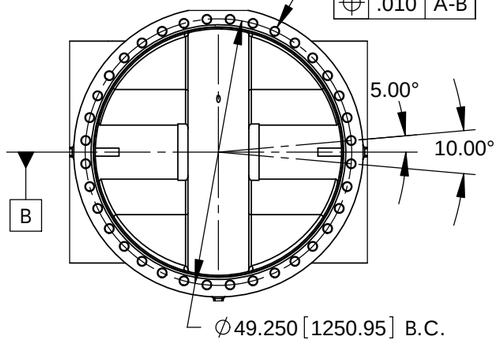
SHEET 1 OF 1
WEIGHT:
THIRD ANGLE PROJECTION

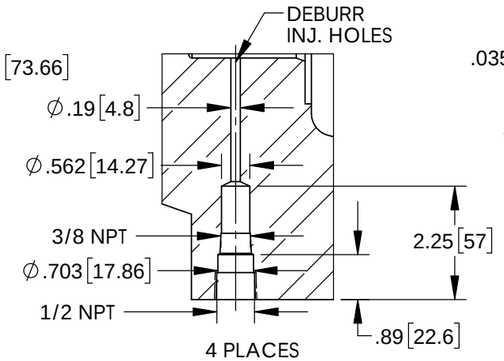
SCV Valve

DESCRIPTION
40" 300#
EPG GATE
YOKE TUBE

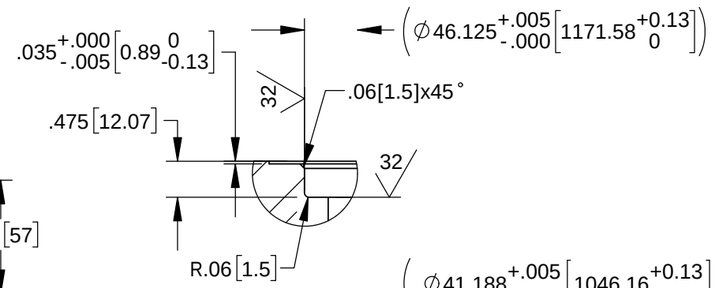
SIZE	P/N	REV.
B	**EPG4003BA13**	**0**

LOC	MARKING DATA
1	EPG4003BBR01 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.

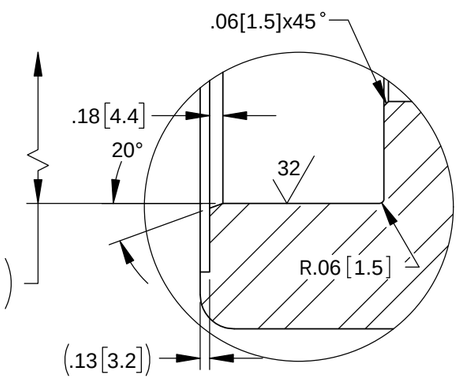




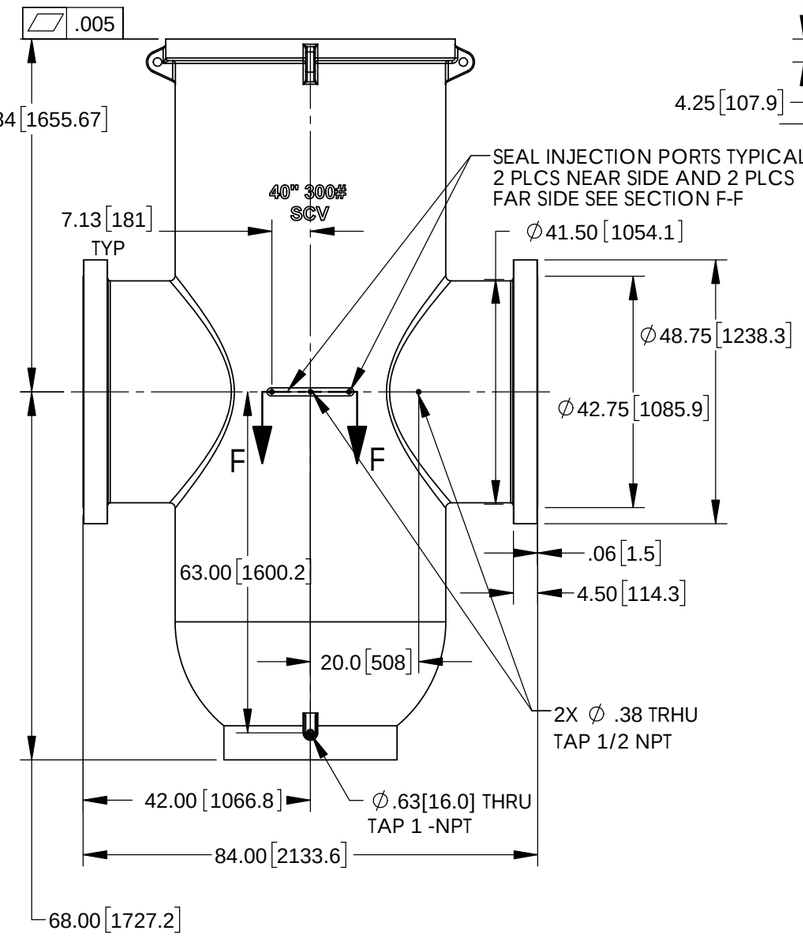
SECTION F-F
SCALE 1 : 3

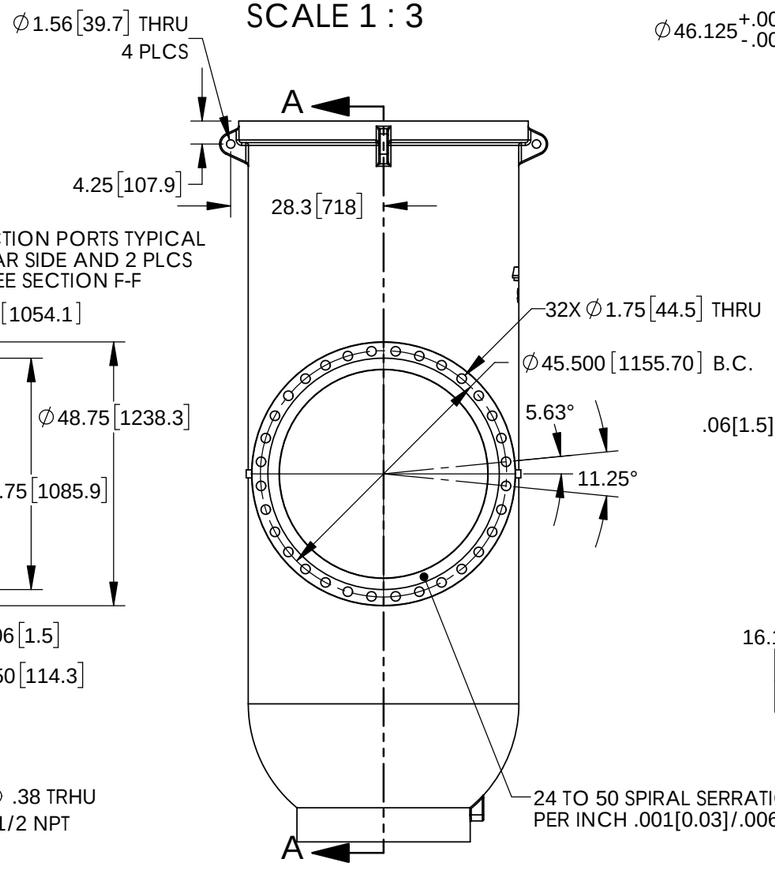


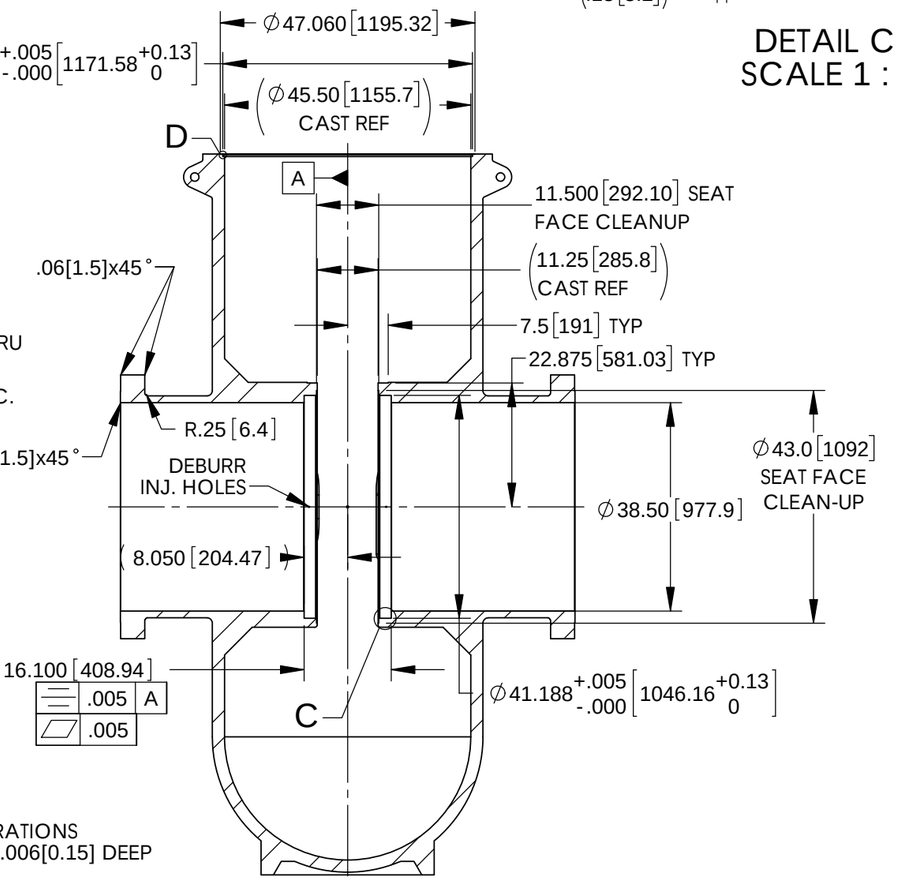
DETAIL D
SCALE 1 : 2



DETAIL C
SCALE 1 : 2







SECTION A-A

WEIGHT = 17166 LBS

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
0	X	RELEASED DRAWING	06-APR-19	TM	JM

REVISION

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DIMENSIONS ARE IN INCHES [mm]
TOLERANCES ARE:
.X= ±.030 [0.8]
.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE
125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

DRAWN TM	06-APR-19
CHECKED JS	06-APR-19
APPROVED JM	06-APR-19
SHEET 1 OF 1	
WEIGHT:	

THIRD ANGLE PROJECTION

SCV Valve

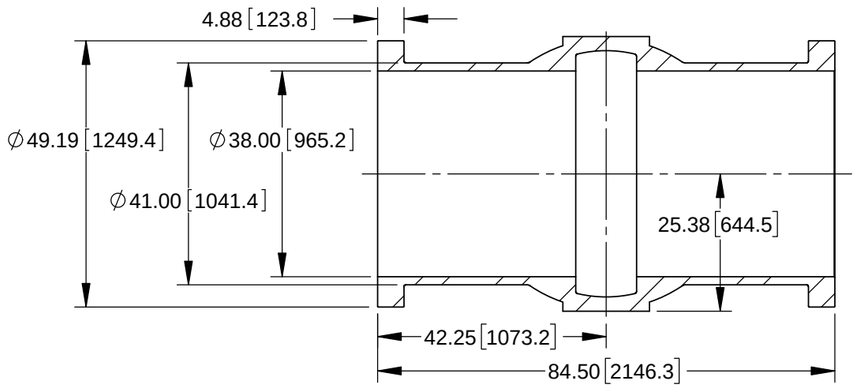
DESCRIPTION
40" 300# RF
EXP GATE
BODY MACHINING

SIZE	P/N	REV.
B	EPG4003BBR01	0

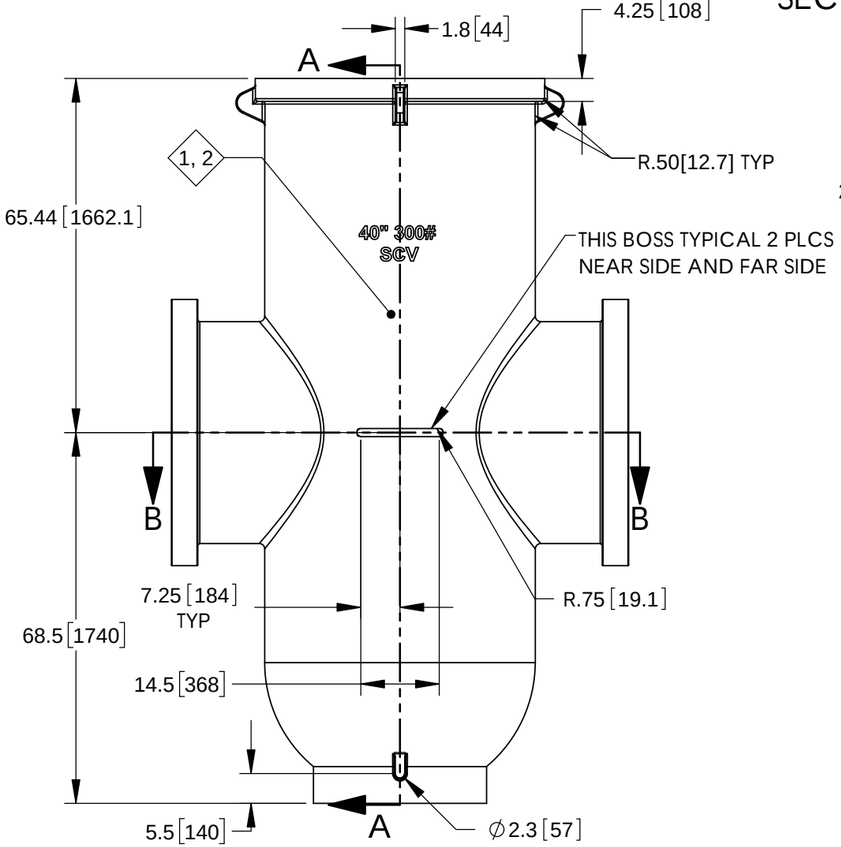
LOC	MARKING DATA
1	EPG4003BBR01-CAST REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.

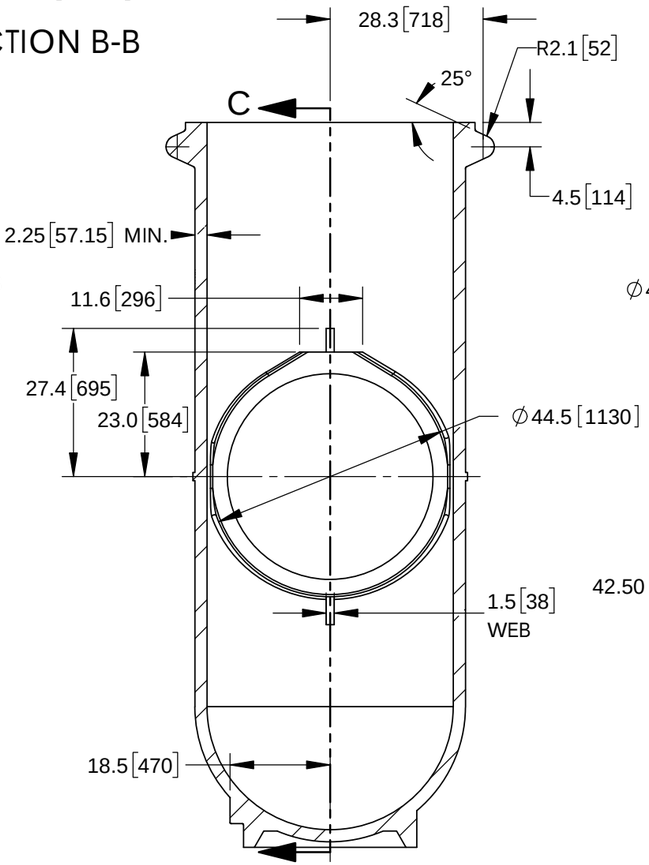
CASTING REQUIREMENTS:

1. FINISHED CASTING MUST BE CHECKED FOR STRAIGHTNESS AFTER HEAT TREATING.
2. EACH PIECE SHALL BE MARKED WITH:
   - FOUNDRY LOGO
   - MAT'L DESIGNATION
   - HEAT NUMBER
3. COMMERICAL CASTINGS - VISUALLY INSPECT TO MSS SP-55.
4. DRAFT 2° UNLESS OTHERWISE SPECIFIED.
5. SEE PURCHASE ORDER FOR ADDITIONAL REQUIREMENTS.

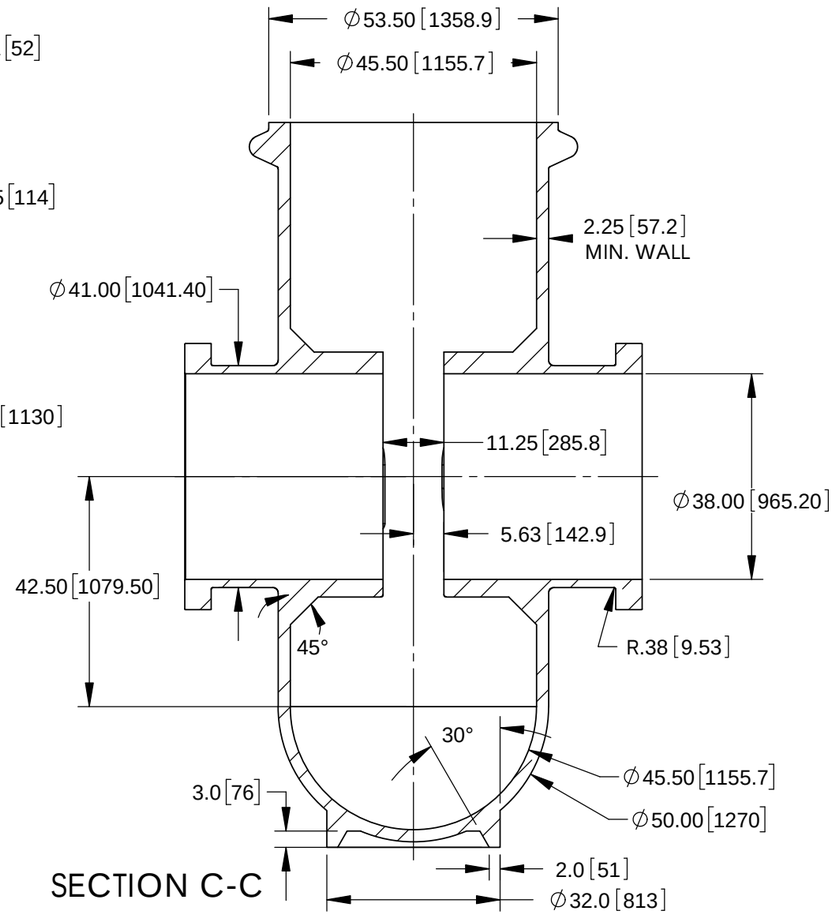


SECTION B-B





SECTION A-A



SECTION C-C

WEIGHT = 18575 LBS

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
0	X	RELEASED DRAWING	02-MAY-19	TM	JM

REVISION

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TOLERANCES ARE:
.X[0]= ±.10 [2.5]
.XX[0.X]= ±.06 [1.5]
ANGULAR= ±1°

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

DRAWN	TM	02-MAY-19
CHECKED	JS	02-MAY-19
APPROVED	JM	02-MAY-19
SHEET 1 OF 1		
WEIGHT:		

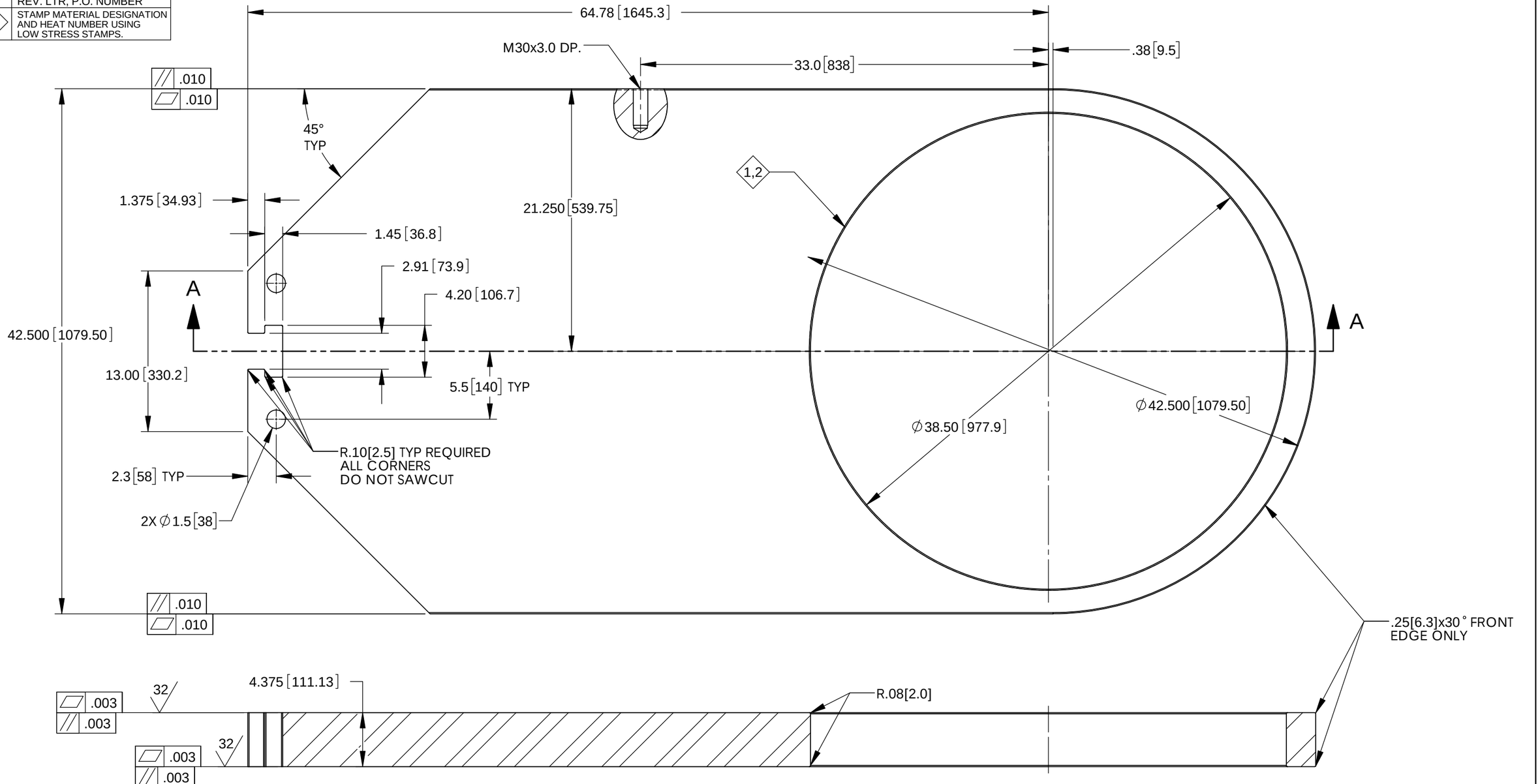
THIRD ANGLE PROJECTION

SCV Valve

DESCRIPTION
40" 300# RF
EXP GATE VALVE
BODY CASTING

SIZE	P/N	REV.
B	EPG4003BBR01-CAST	0

LOC	MARKING DATA
1	TCG4003BC01 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.



SECTION A-A

WEIGHT = 2579 LBS

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
2	X	ADDED M30 TAPPED HOLE	4-MAY-21	TM	JM
1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	20-DEC-17	JM	CP

REVISION

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.X= ±.030 [0.8]
.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE
125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

DRAWN	JM	20-DEC-17
CHECKED	JS	20-DEC-17
APPROVED	CP	20-DEC-17
SHEET 1 OF 1		
WEIGHT:		

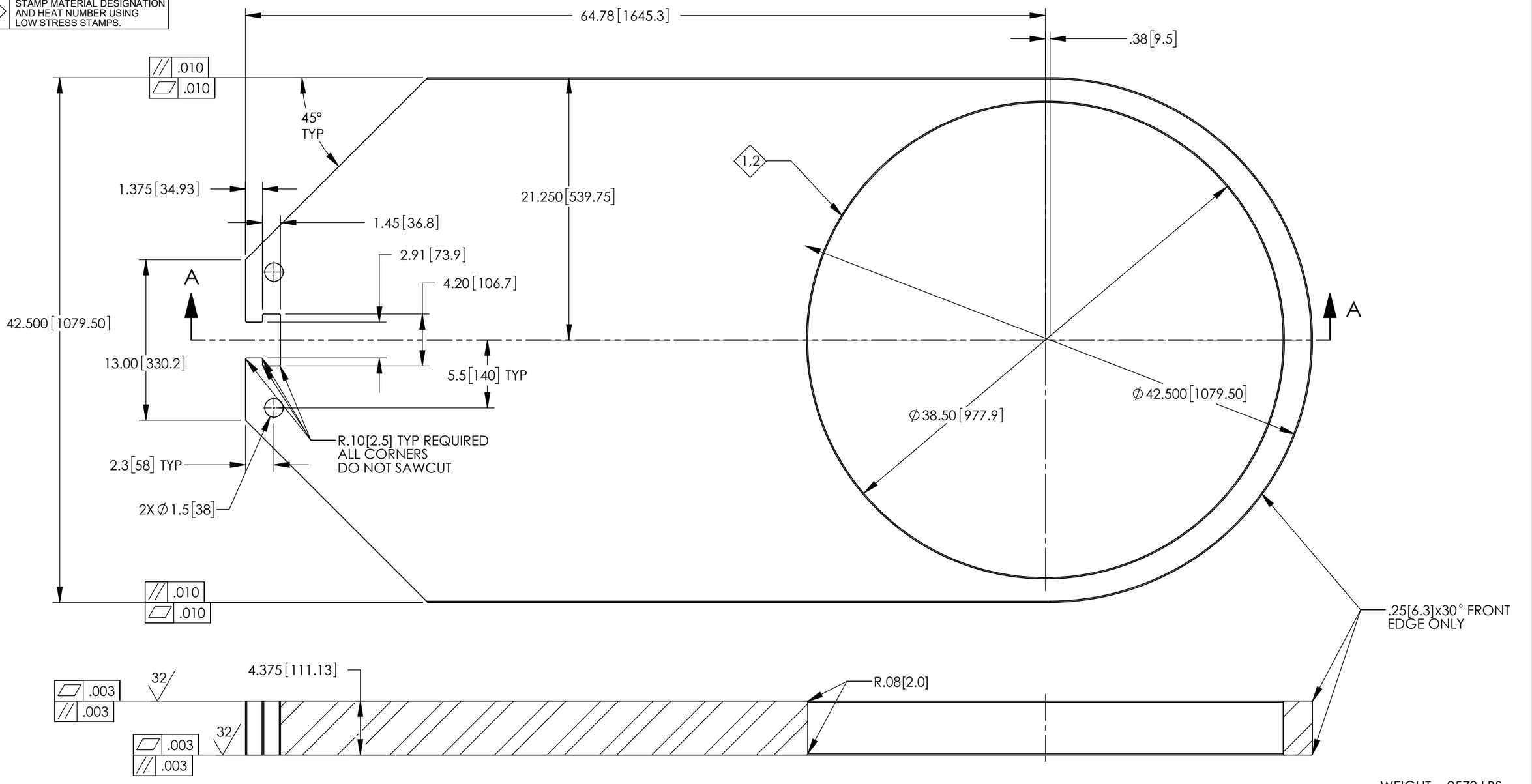
THIRD ANGLE PROJECTION

SCV Valve

DESCRIPTION
40" 300#
SLAB GATE VALVE
GATE

SIZE B | P/N **TCG4003BC01** | REV. **2**

LOC	MARKING DATA
1	TCG4003BC01 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.



SECTION A-A

WEIGHT = 2579 LBS

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	20-DEC-17	JM	CP

REVISION

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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES [mm]
TOLERANCES ARE:
.X= ±.030 [0.8]
.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

DRAWN	JM 20-DEC-17
CHECKED	JS 20-DEC-17
APPROVED	CP 20-DEC-17
SHEET 1 OF 1	
WEIGHT:	

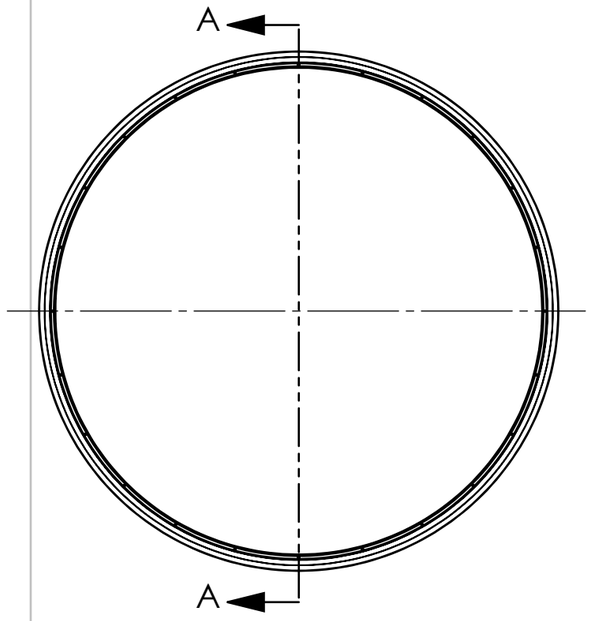
THIRD ANGLE PROJECTION

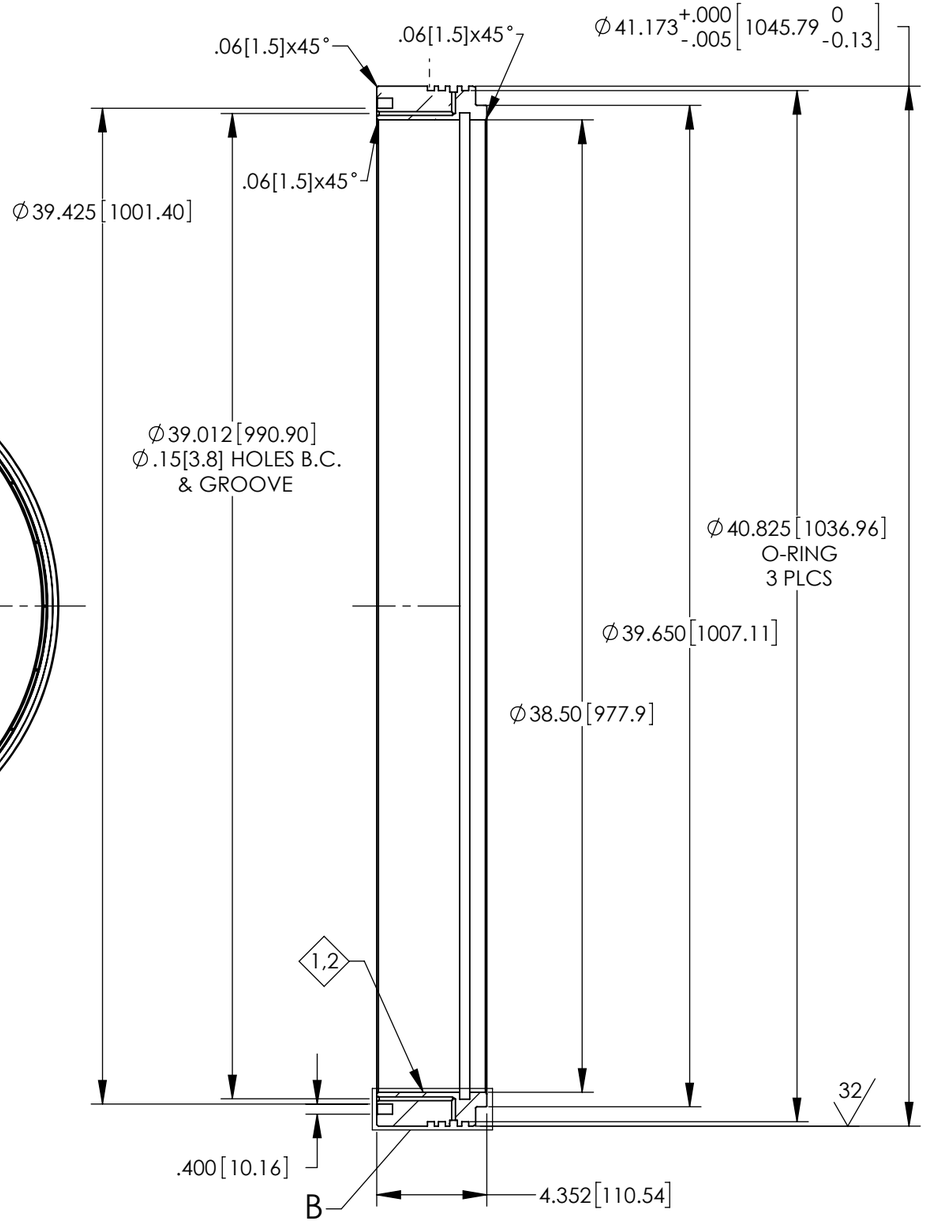
SCV Valve

DESCRIPTION
40" 300#
SLAB GATE VALVE
GATE

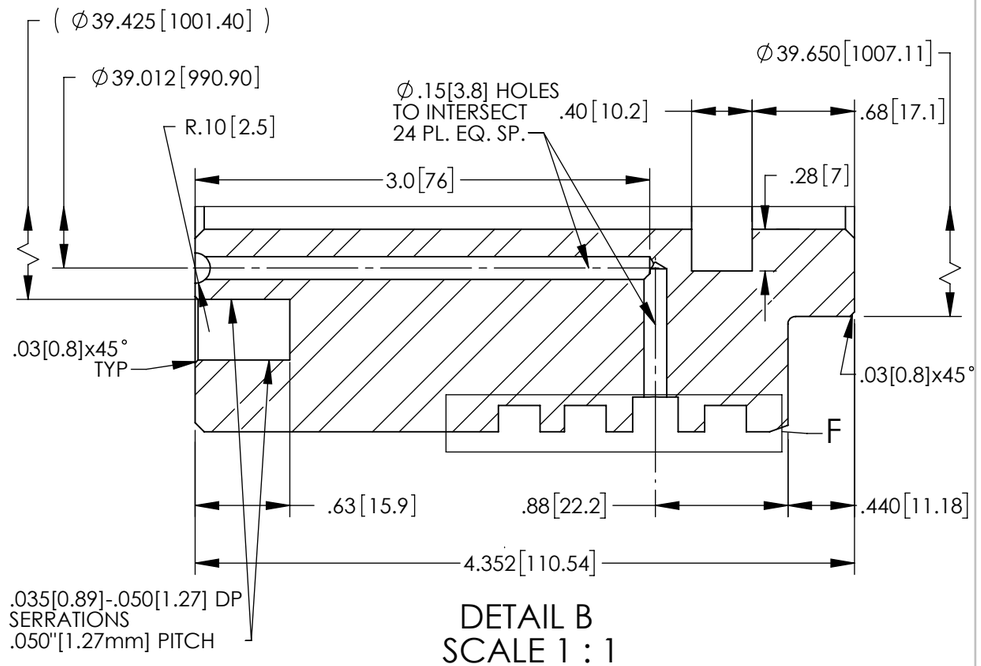
SIZE B | P/N TCG4003BC01 | REV. 1

LOC	MARKING DATA
1	TCG4003BD01 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.

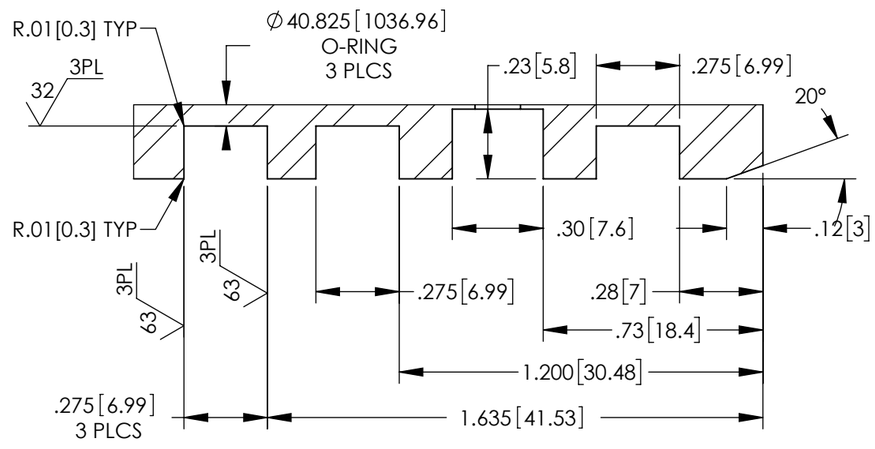




SECTION A-A



DETAIL B
SCALE 1 : 1



DETAIL F
SCALE 2 : 1

-SPECIAL O-RINGS
.210[5.33] C.S. x 40.25[1022.4] ±0.25[6.4] I.D.

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	10-JAN-18	RD	JM

REVISION

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TOLERANCES ARE:
.X= ±.030 [0.8]
.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE
125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

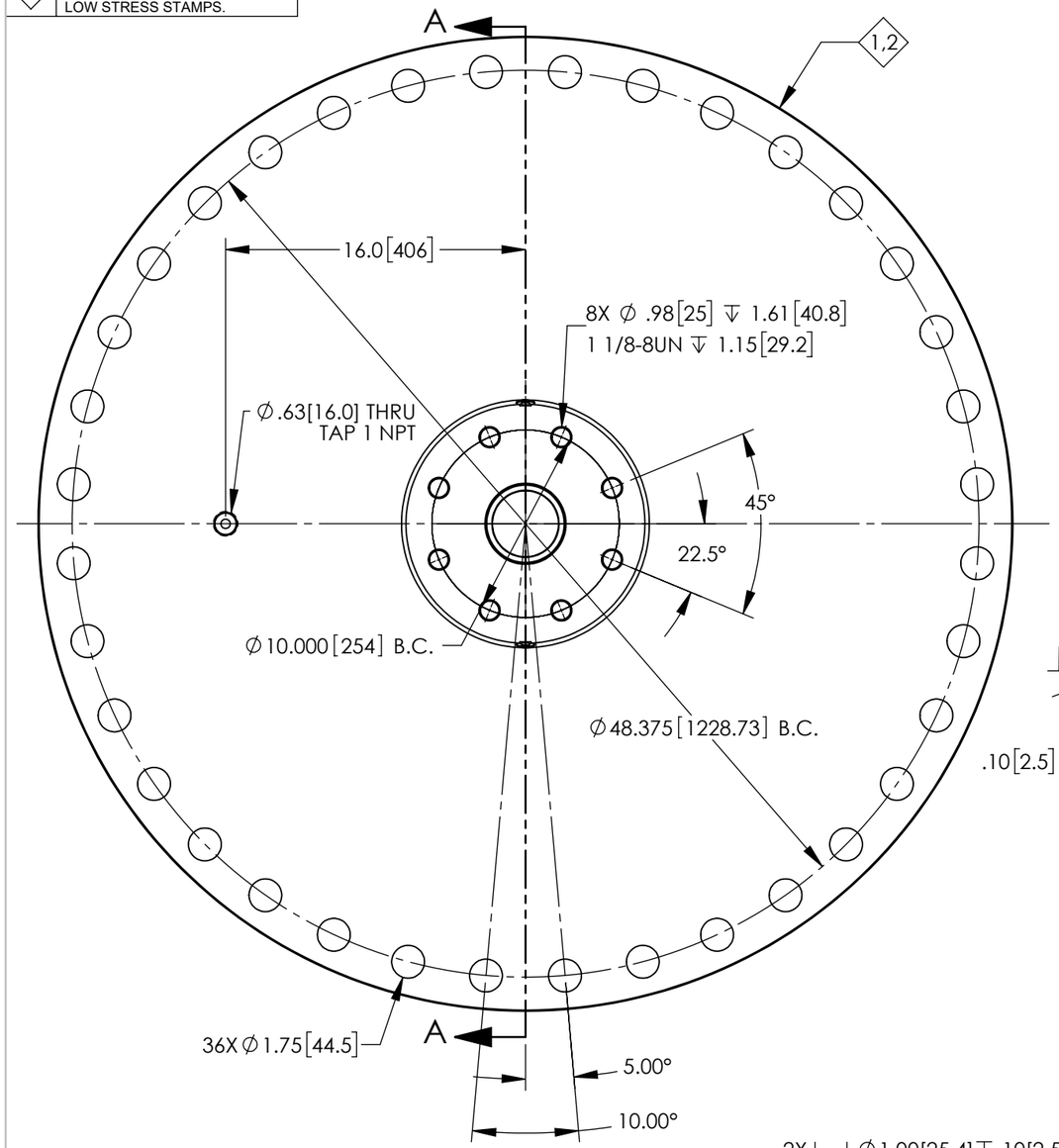
DRAWN	RD	10-JAN-18
CHECKED	JS	10-JAN-18
APPROVED	JM	10-JAN-18
SHEET 1 OF 1		
WEIGHT:		THIRD ANGLE PROJECTION

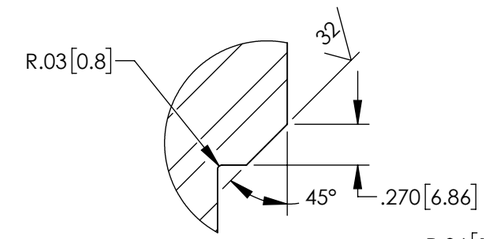
SCV Valve

DESCRIPTION
SEAT
40" 300#
SLAB GATE VALVE

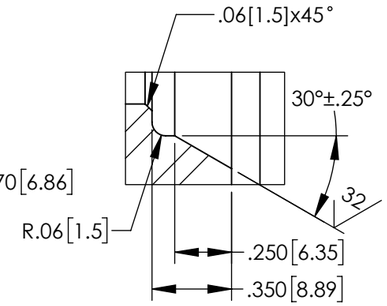
SIZE	P/N	REV.
B	TCG4003BD01	1

LOC	MARKING DATA
1	TCG4003BE01 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.

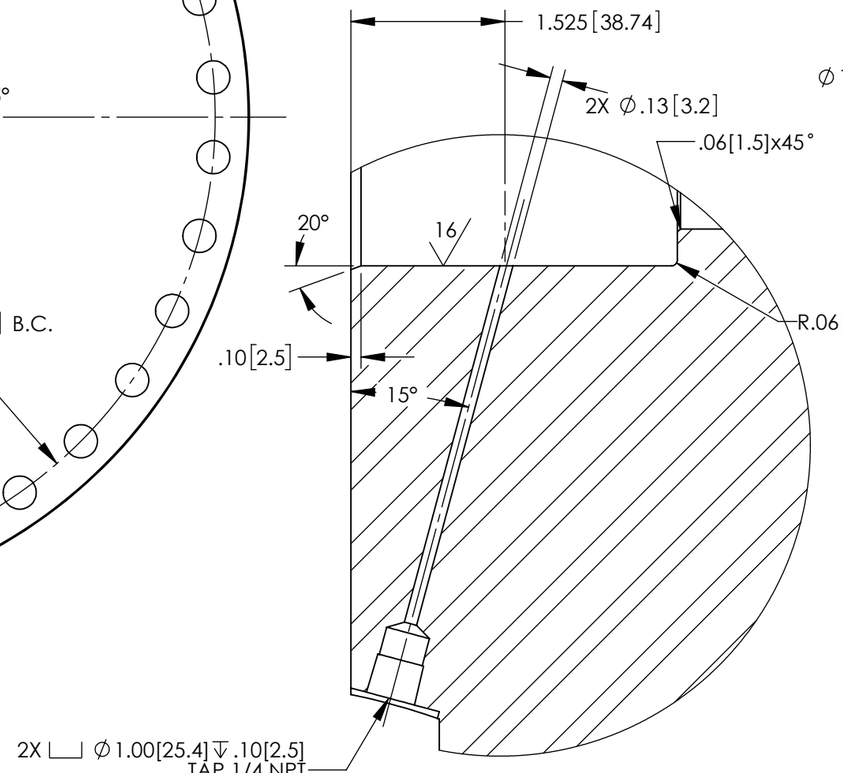




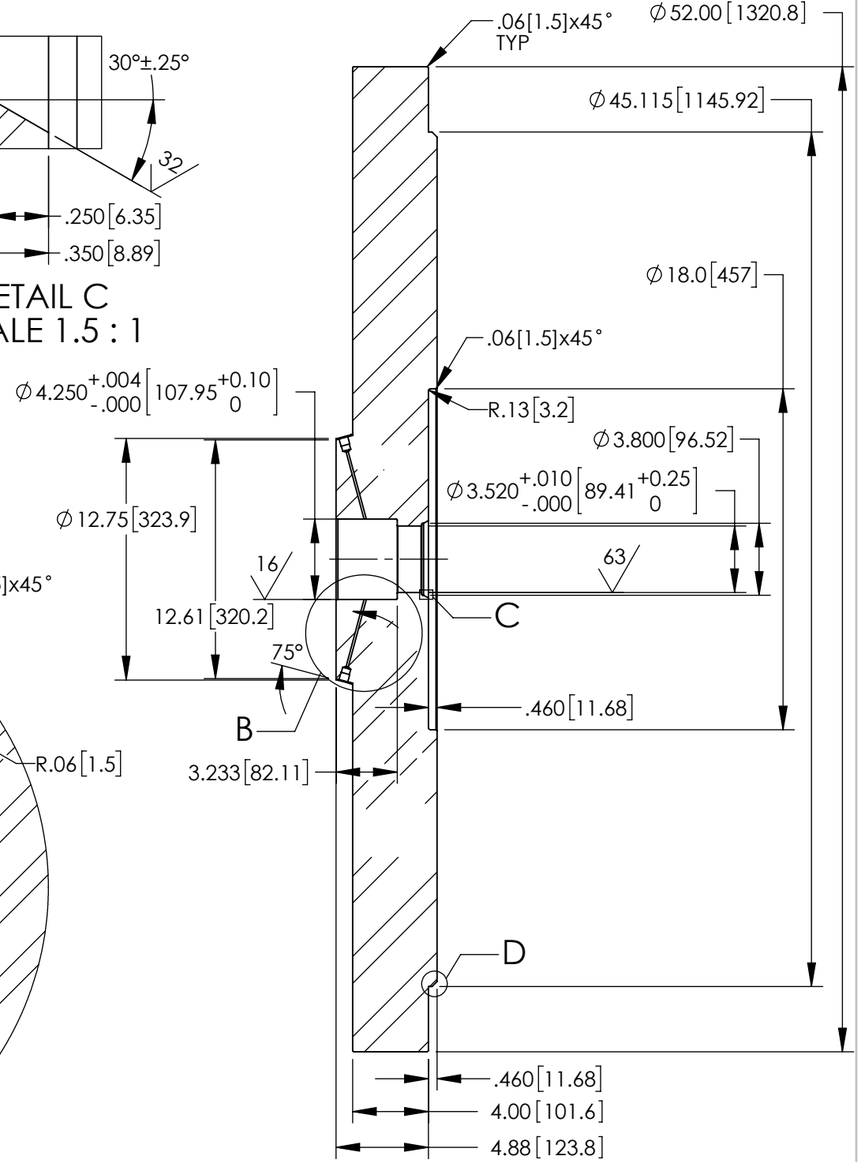
DETAIL D
SCALE 1 : 1



DETAIL C
SCALE 1.5 : 1



DETAIL B
SCALE 1 : 1.5



SECTION A-A

WEIGHT = 2490 LBS

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	20-DEC-17	JM	CP

REVISION

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.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

DRAWN	JM 20-DEC-17
CHECKED	JS 20-DEC-17
APPROVED	CP 20-DEC-17
SHEET 1 OF 1	
WEIGHT:	

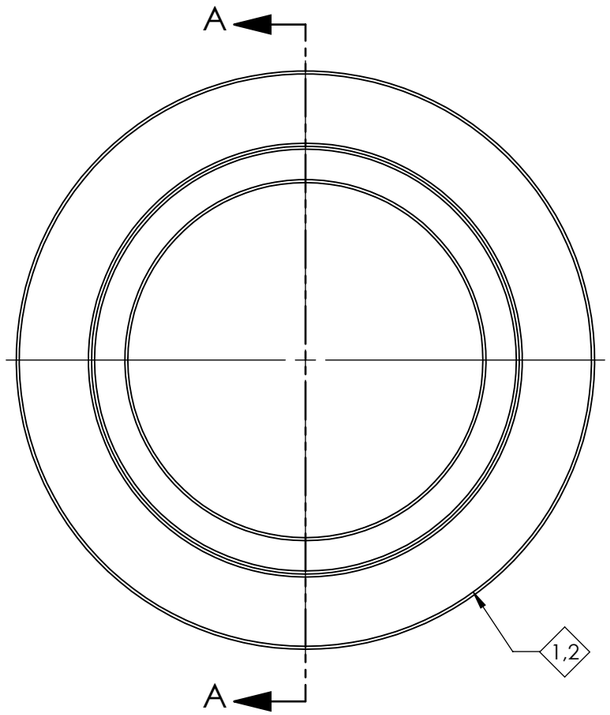
THIRD ANGLE PROJECTION

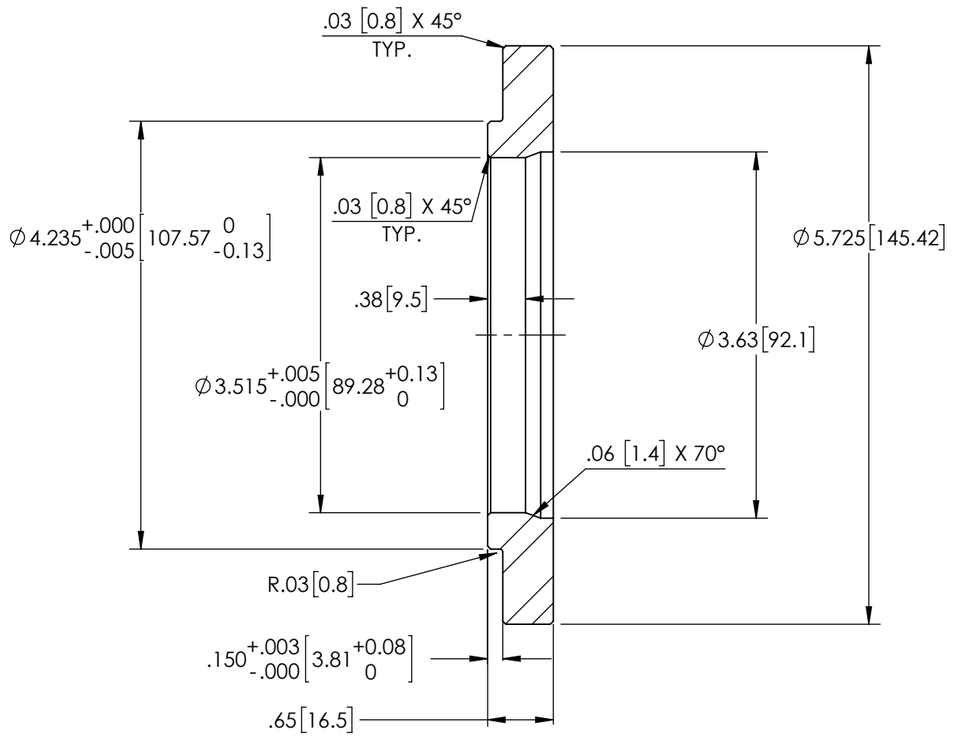
SCV Valve

DESCRIPTION
40" 300#
SLAB GATE
BONNET

SIZE B | P/N TCG4003BE01 | REV. 1

LOC	MARKING DATA
1	TCG4003BG01 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.





SECTION A-A
SCALE 1 : 1.5

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	20-DEC-17	JM	CP

REVISION

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.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

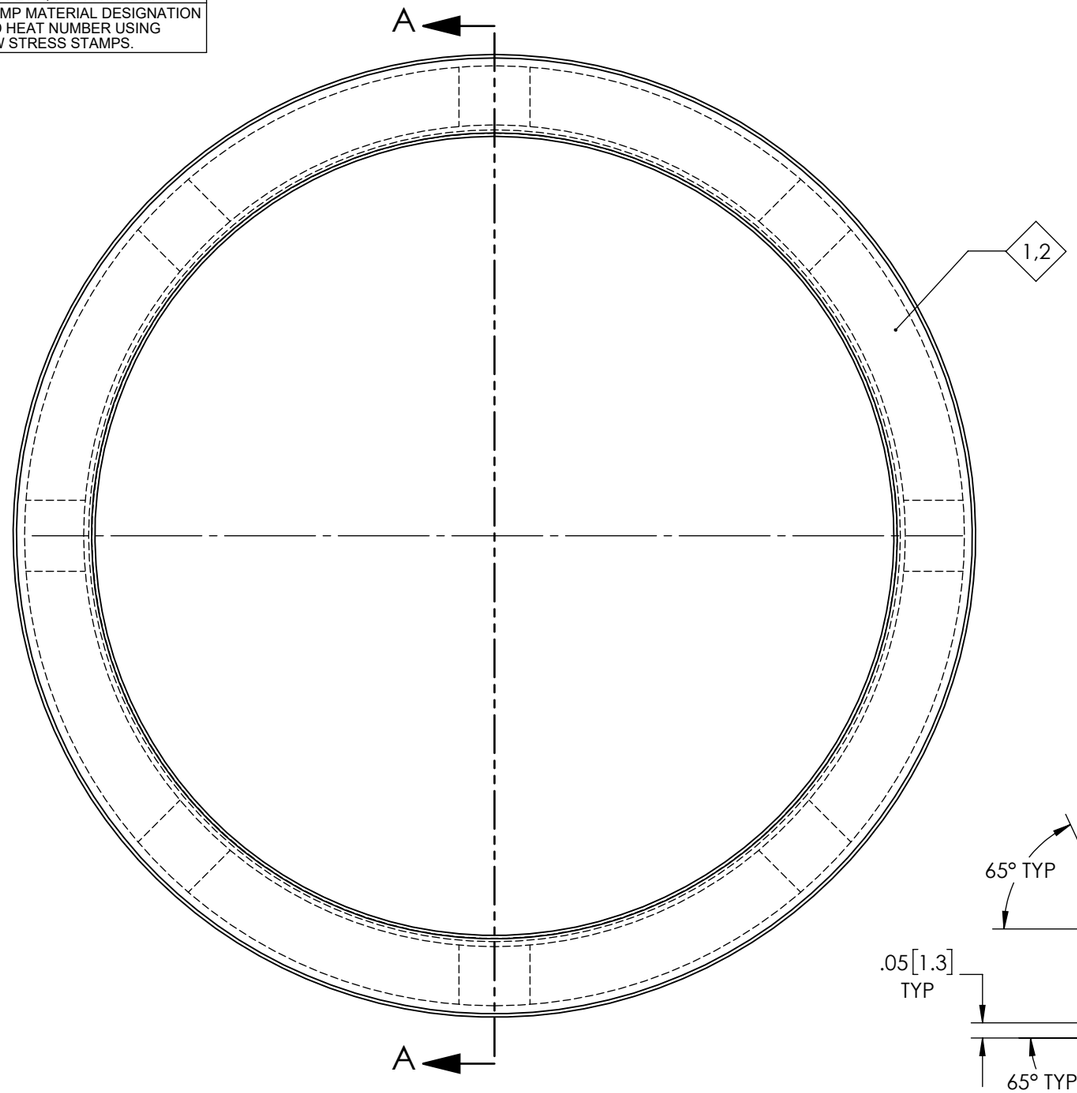
DRAWN JM	20-DEC-17
CHECKED JS	20-DEC-17
APPROVED CP	20-DEC-17
SHEET 1 OF 1	
WEIGHT:	THIRD ANGLE PROJECTION

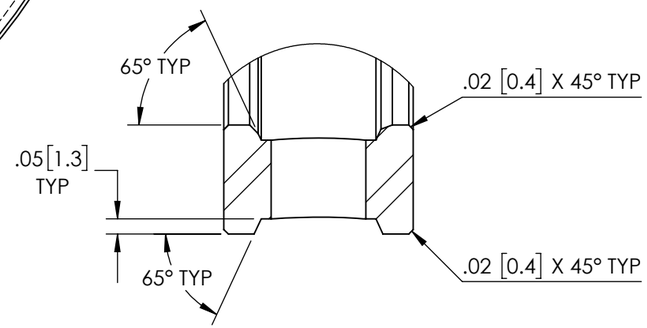
SCV Valve

DESCRIPTION
GLAND
40" 300#
TCG & EPG GATE VALVE

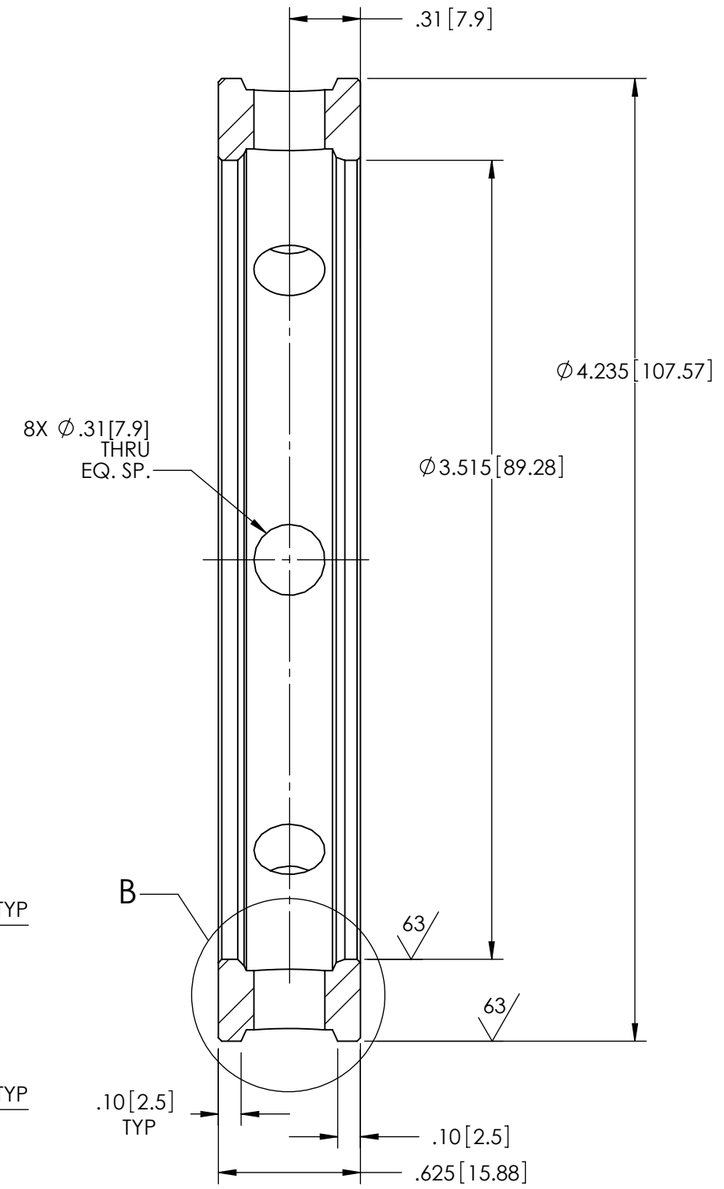
SIZE B | P/N **TCG4003BG01** | REV. 1

LOC	MARKING DATA
1	TCG4003BL01 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.





DETAIL B
SCALE 2 : 1



SECTION A-A

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	20-DEC-17	RD	JM

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.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

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DRAWN	RD 20-DEC-17
CHECKED	JS 20-DEC-17
APPROVED	JM 20-DEC-17
SHEET 1 OF 1	
WEIGHT:	

THIRD ANGLE PROJECTION

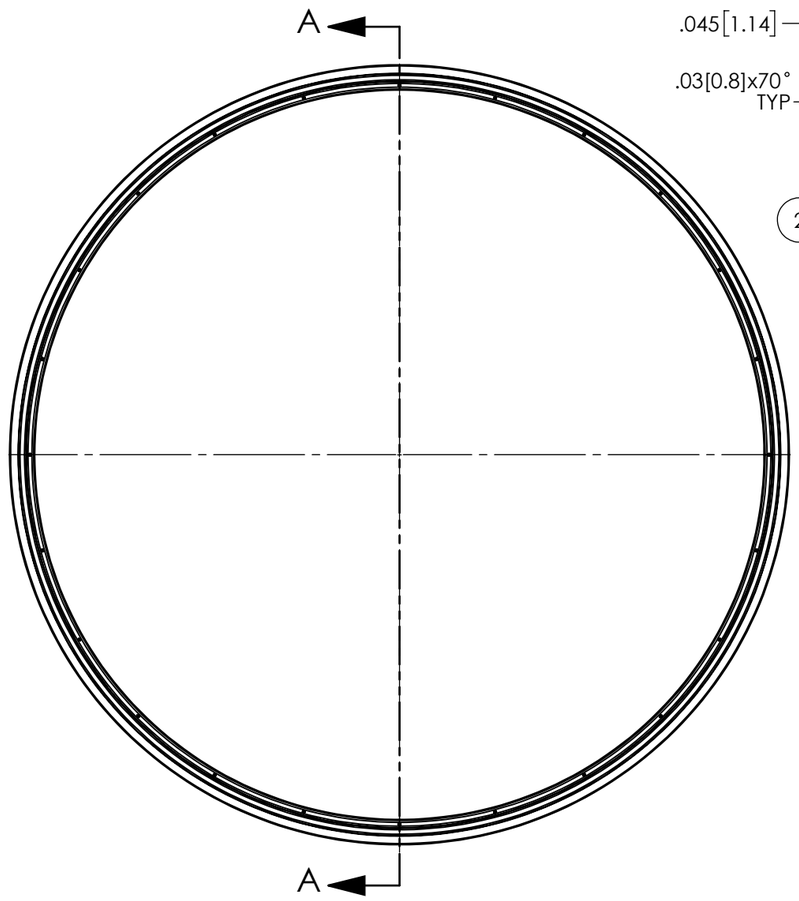
SCV Valve

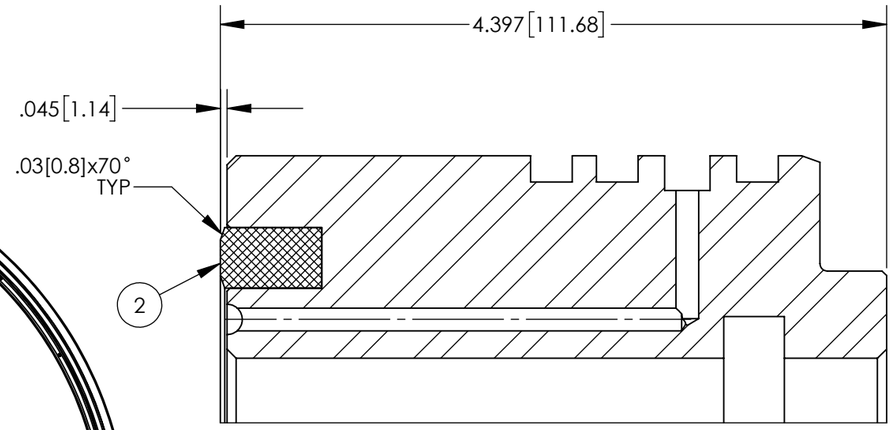
DESCRIPTION
LANTERN RING
40" 300#
SLAB GATE

SIZE B | P/N TCG4003BL01 | REV. 1

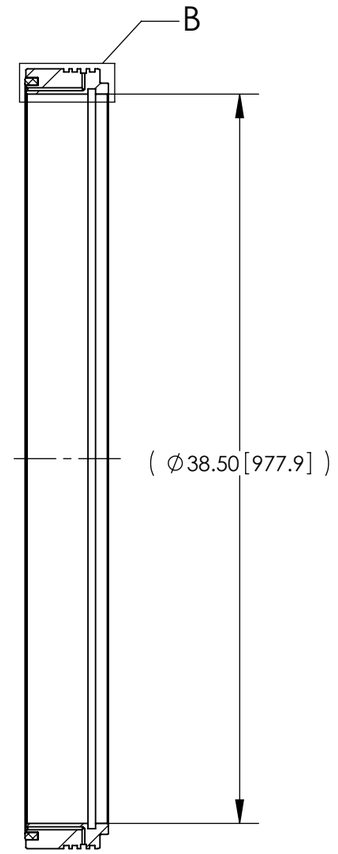
LOC	MARKING DATA
1	TCG4003BR01 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	TCG4003BD01	SEAT
2	1	TCG4001BJ01	SEAT INSERT





DETAIL B
SCALE 1 : 1



SECTION A-A

NOTES:
1. INSERT TO BE PRESSED INTO GROOVE WITH 20,000 LBF. THEN MACHINED AS SHOWN

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	10-JAN-18	RD	JM

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.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

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DRAWN	RD 10-JAN-18
CHECKED	JS 10-JAN-18
APPROVED	JM 10-JAN-18
SHEET 1 OF 1	
WEIGHT:	

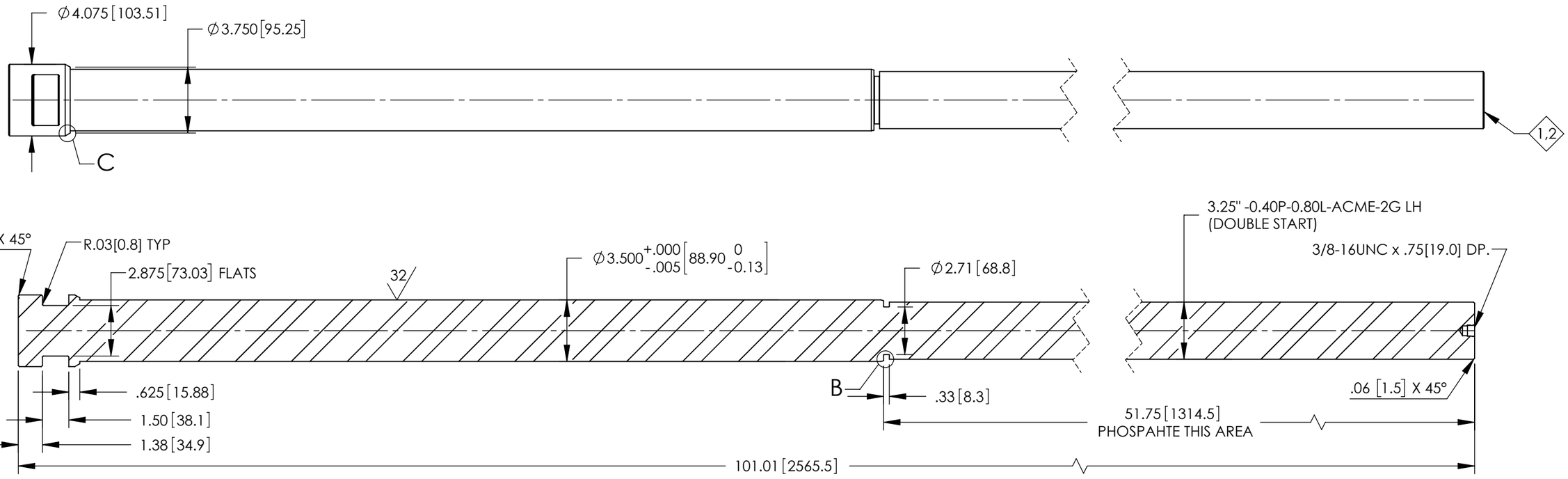
THIRD ANGLE PROJECTION

SCV Valve

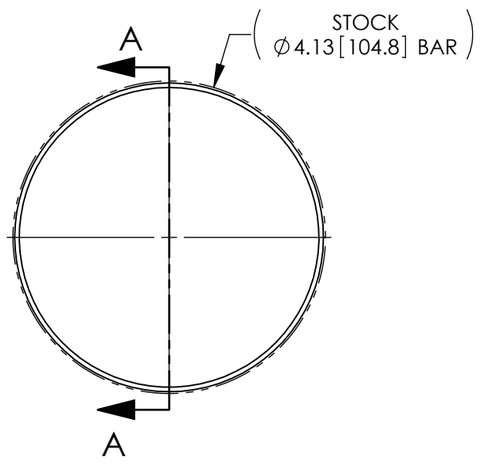
DESCRIPTION
SEAT ASSEMBLY
40" 300#
SLAB GATE VALVE

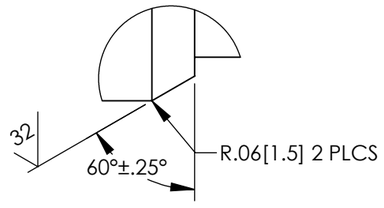
SIZE B | P/N **TCG4003BR01** | REV. 1

LOC	MARKING DATA
1	TCG4003BST1 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.

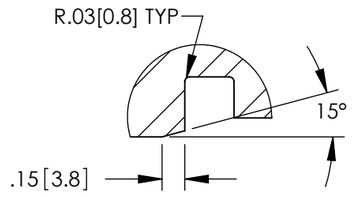


SECTION A-A





DETAIL C
SCALE 1 : 1



DETAIL B
SCALE 1 : 1

WEIGHT= 221 LBS

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	20-DEC-17	JM	CP

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.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

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DRAWN	JM	20-DEC-17
CHECKED	JS	20-DEC-17
APPROVED	CP	20-DEC-17

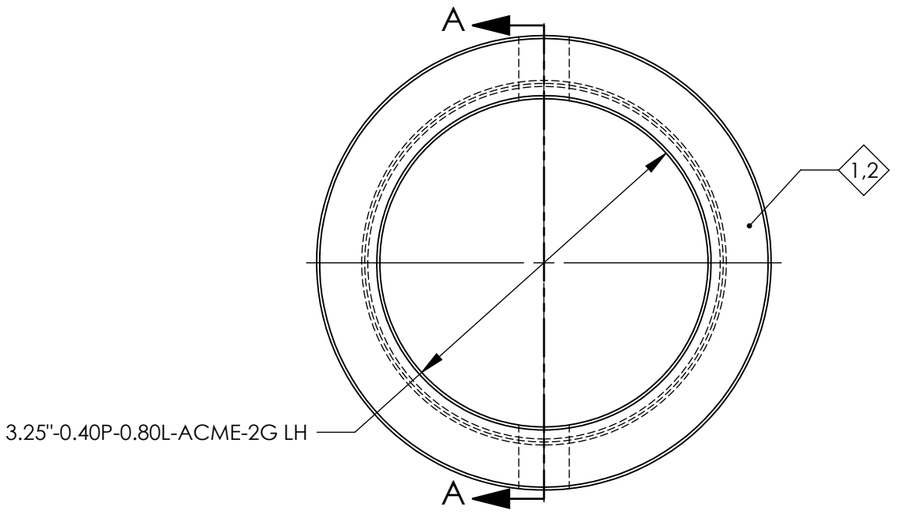
SHEET 1 OF 1
WEIGHT:
THIRD ANGLE PROJECTION

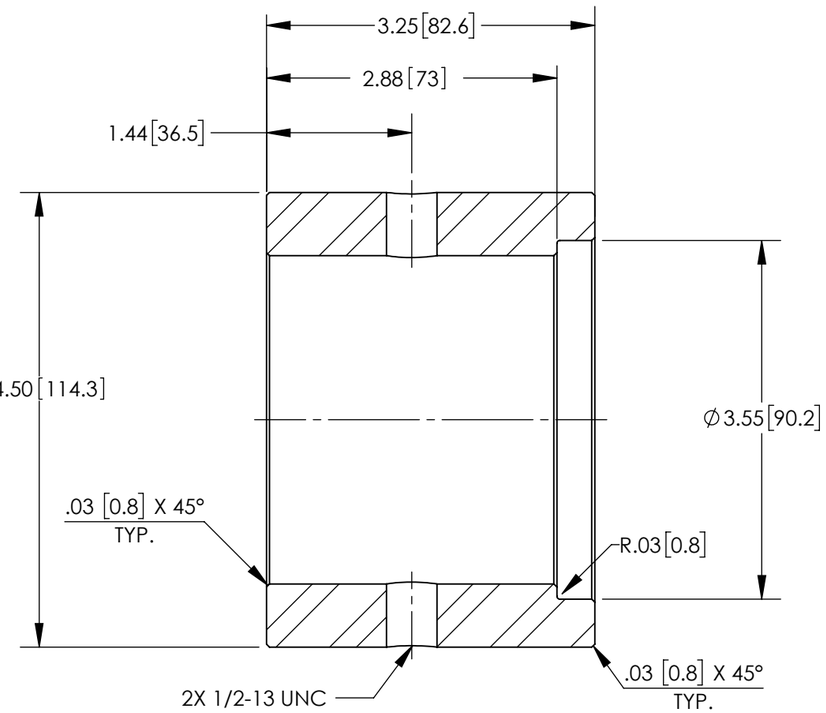
SCV Valve

DESCRIPTION
STEM
40" 300#
SLAB GATE VALVE

SIZE B | P/N **TCG4003BST1** | REV. 1

LOC	MARKING DATA
1	TCG4003BZ02 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.





SECTION A-A
SCALE 1 : 1.5

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	20-DEC-17	TM	JM

REVISION

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.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

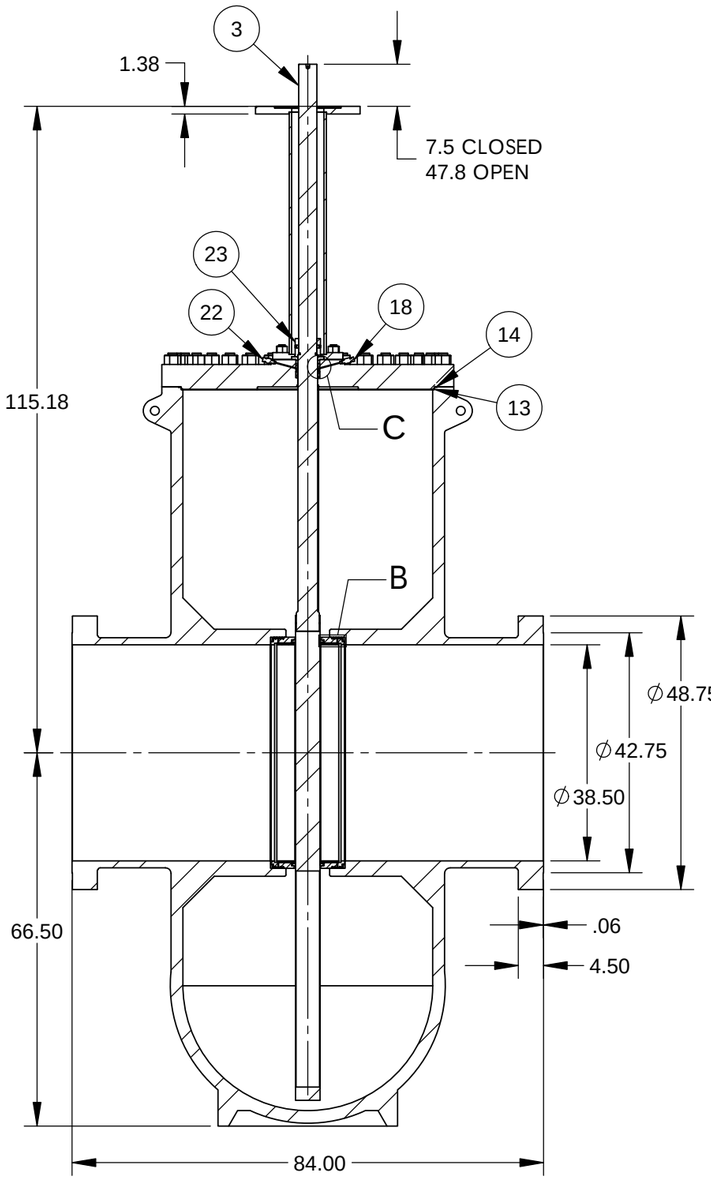
DRAWN	TM 20-DEC-17
CHECKED	JS 20-DEC-17
APPROVED	JM 20-DEC-17
SHEET 1 OF 1	
WEIGHT:	

THIRD ANGLE PROJECTION

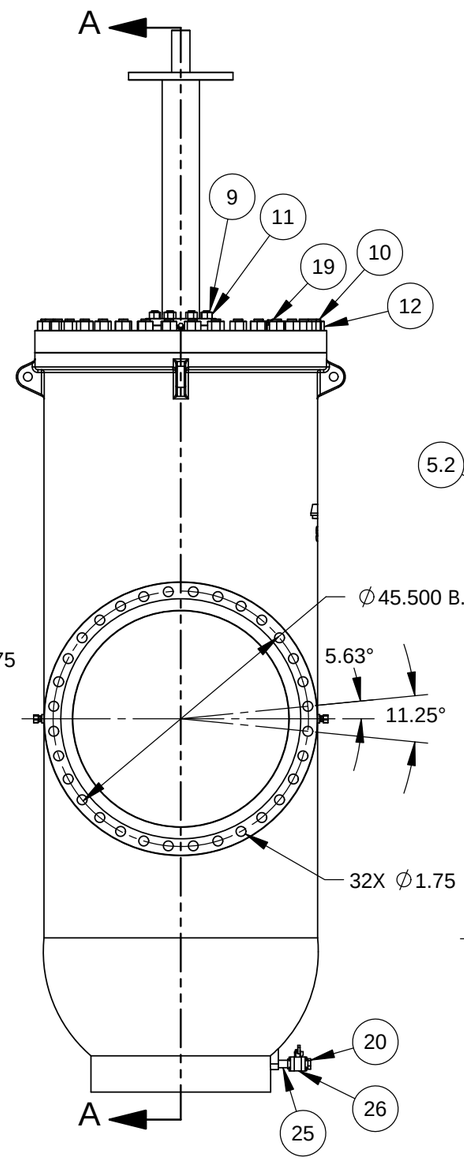
SCV Valve

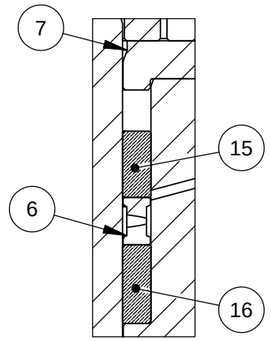
DESCRIPTION
40" 300#
SLAB GATE VALVE
INTERNAL STOP NUT

SIZE B | P/N **TCG4003BZ02** | REV. 1

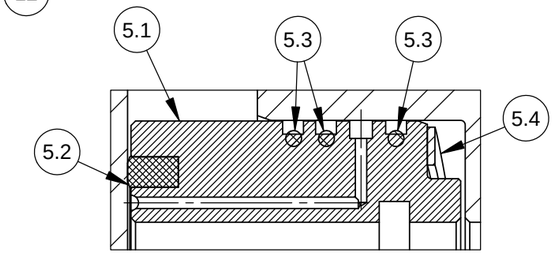


SECTION A-A

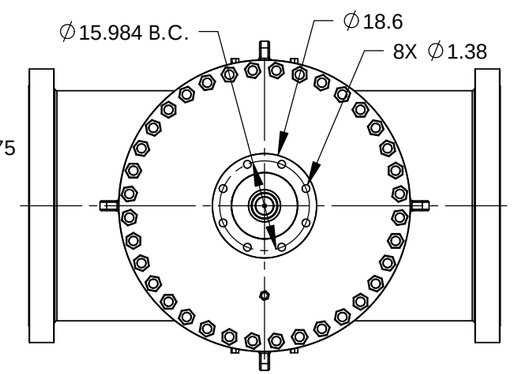




DETAIL C
SCALE 1 : 2



DETAIL B
SCALE 1 : 2



ITEM NO.	QTY.	Rev	PART NUMBER	DESCRIPTION
1	1	1	TCG4003BBR01	BODY
2	1	1	TCG4003BE01	BONNET
3	1	1	TCG4003BST1	STEM
4	1	2	TCG4003BC01	GATE
5	2	1	TCG4003BR01	SEAT ASSY
5.1	1	1	TCG4003BD01	SEAT
5.2	1	1	TCG4001BJ01	SEAT INSERT
5.3	3		0001-3-4050	O-RING
5.4	1		TCG4001SS-WS	WAVESPRING
6	1	1	TCG4003BL01	LANTERN RING
7	1	1	TCG4003BG01	GLAND
8	1	2	TCG4003BA01	YOKE WELDMENT
8.1	1	1	TCG4003BA11	YOKE BASE
8.2	1	1	TCG4003BA13	YOKE TUBE
8.3	1	1	TCG4003BA12	YOKE TOP
9	8		0009011-XX-036	STUD
10	36		0009015-XX-076	STUD
11	8		0020112	HVY HEX NUT
12	36		0020163	HVY HEX NUT
13	1		0001-3-4475	O-RING
14	1	X	0014-TCG4003	GASKET
15	1	X	0018-034-03-131	PACKING
16	1	X	0018-034-03-141	PACKING
17	4		0028004	GREASE FITTING, GBH
18	1		0029002	VENT FITTING
19	1		0029010	VENT FITTING
20	1		0030-100	NPT PLUG
21	4		0031003	BALL CHECK
22	1		0032002	PKG INJ FITTING
23	1	1	TCG4003BZ02	INTERNAL STOP NUT
24	2	X	0015-04-05	SET SCREW
25	1	X	0040-010-030	1" T.O.E. NIPPLE
26	1		0039-XX-010	BALL VALVE

FLANGES PER B16.47 - CLASS 300 SERIES A

WEIGHT = 22237 LBS
THREAD = 3.25"-0.40P-0.80L-ACME-2G LH

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
0	X	RELEASED DRAWING	20-NOV-17	JM	CP

REVISION

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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
.X= ±.030
.XX= ±.015
.XXX= ±.005
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS FINISH
CONCENTRICITY= ±.002 T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

DRAWN JM	10-JAN-18
CHECKED JS	10-JAN-18
APPROVED CP	10-JAN-18
SHEET 1 OF 1	
WEIGHT:	THIRD ANGLE PROJECTION

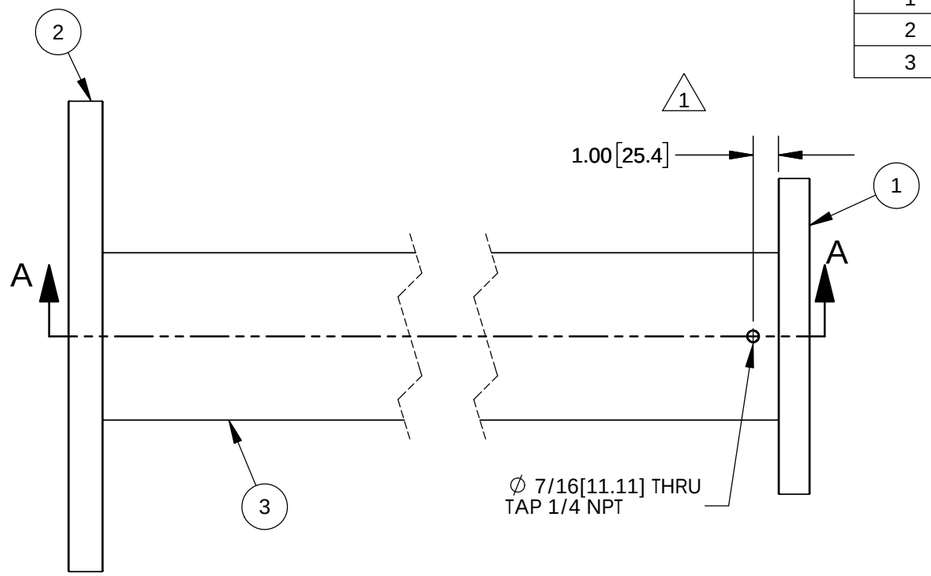
SCV Valve

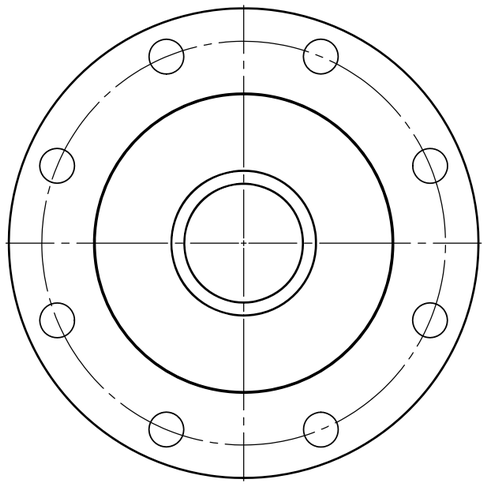
DESCRIPTION
40" 300# RF
SLAB VALVE
ASSEMBLY

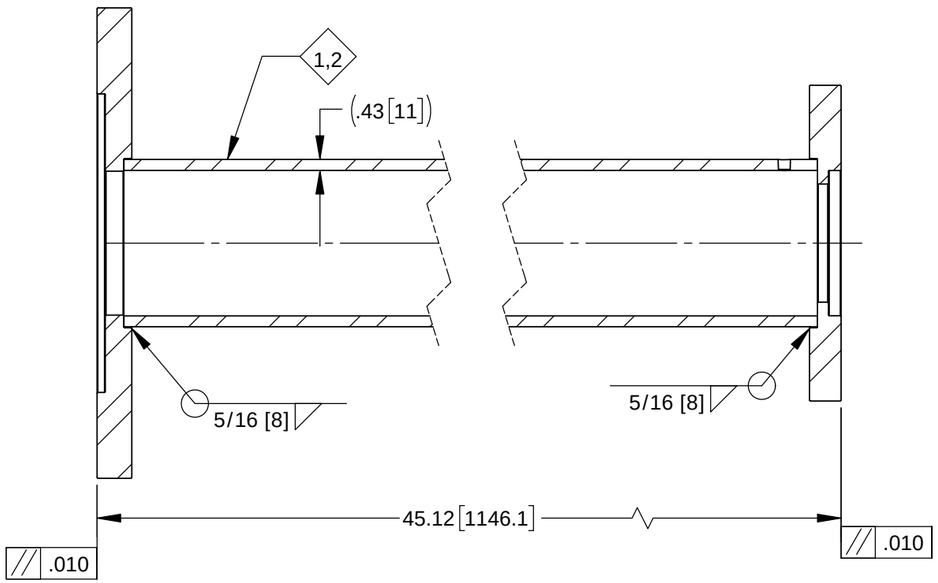
SIZE B | P/N **TCG4003B001RB** | REV. **0**

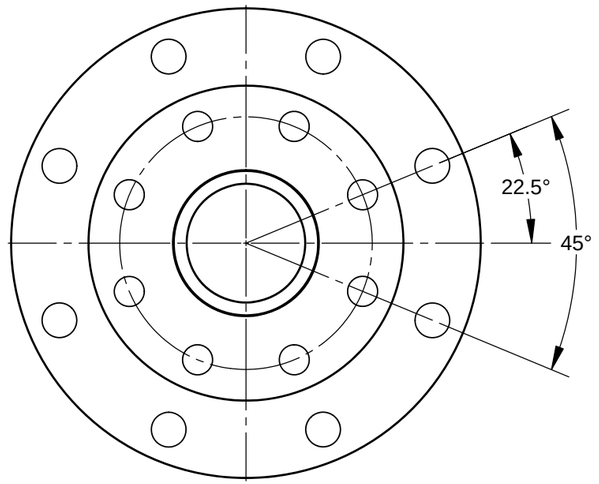
LOC	MARKING DATA
1	TCG4003BA01 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION	Revision
1	1	TCG4003BA11	YOKE BASE	1
2	1	TCG4003BA12	YOKE TOP	1
3	1	TCG4003BA13	YOKE TUBE	1









SECTION A-A

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
2	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
1	11304	SEE ECN	06-JUL-18	TM	JM
0	X	RELEASED DRAWING	12/19/2017	JM	CP

REVISION

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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES [mm]
TOLERANCES ARE:
.X= ±.030 [0.8]
.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

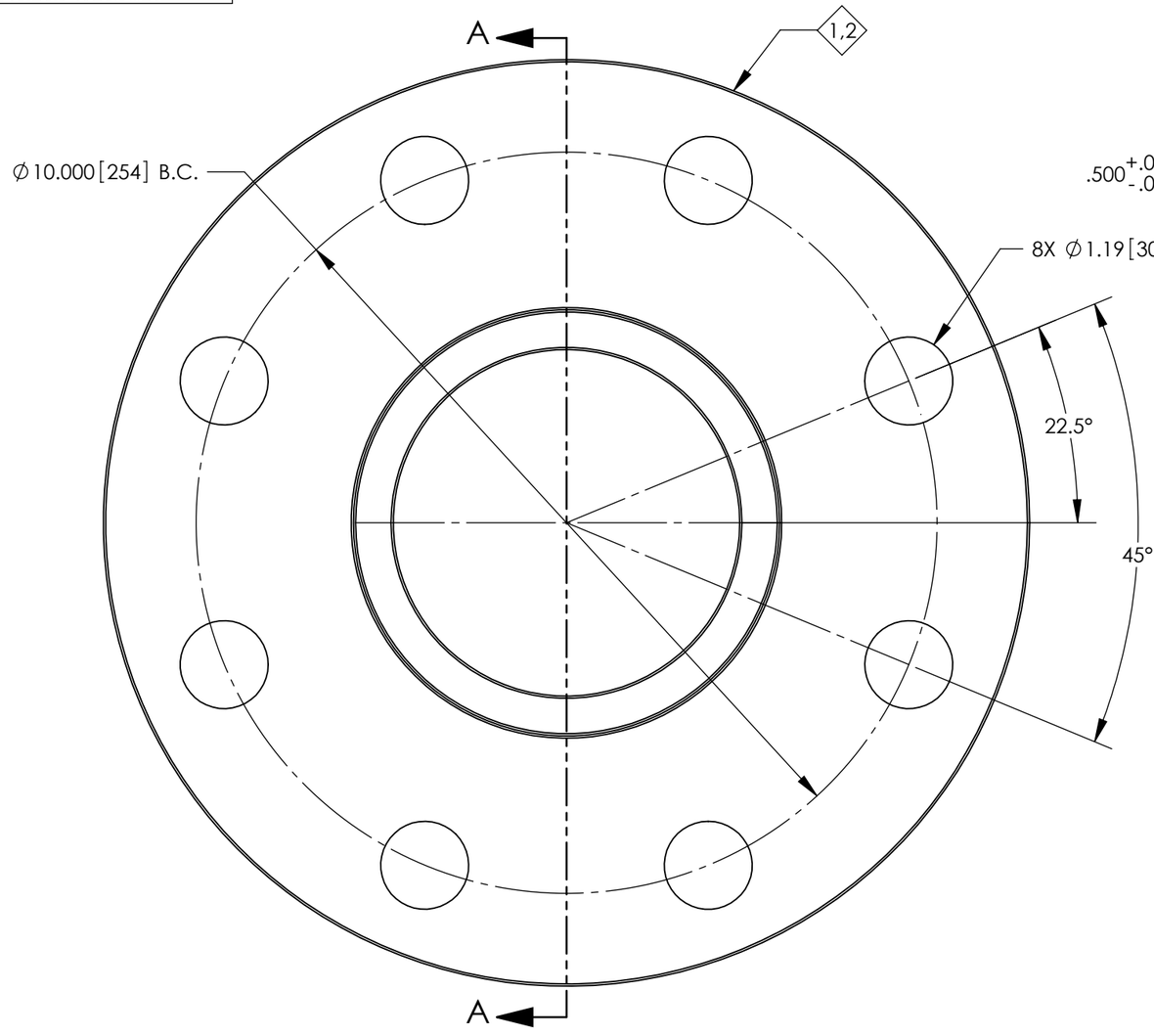
DRAWN	JM	12/19/2017
CHECKED	JS	12/19/2017
APPROVED	CP	12/19/2017
SHEET 1 OF 1		
WEIGHT:		THIRD ANGLE PROJECTION

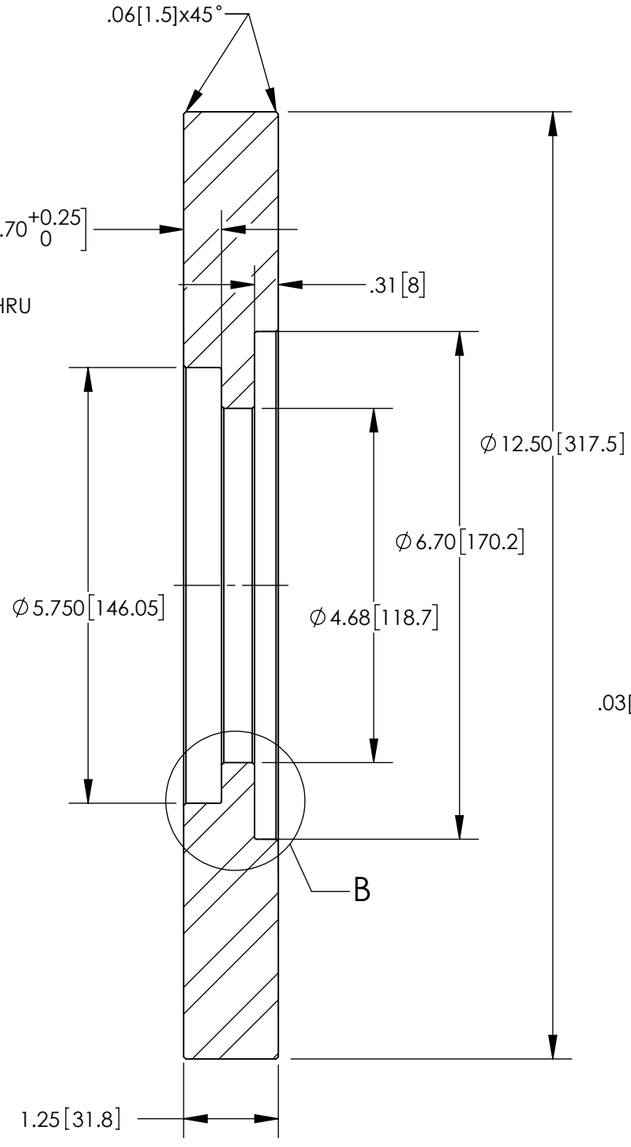
SCV Valve

DESCRIPTION
40" 300#
TCG GATE
YOKE WELDMENT

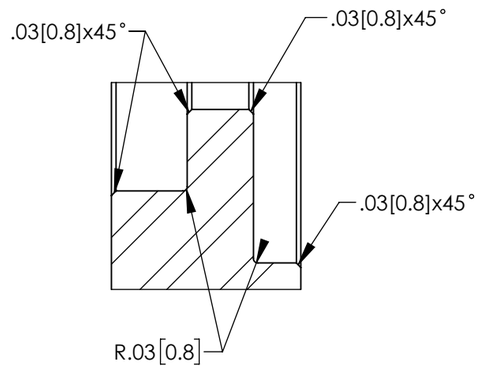
SIZE B | P/N **TCG4003BA01** | REV. **2**

LOC	MARKING DATA
1	TCG4003BA11 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.





SECTION A-A



DETAIL B
SCALE 1 : 1

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	20-DEC-17	JM	CP

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.X= ±.030 [0.8]
.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

DRAWN	JM 20-DEC-17
CHECKED	JS 20-DEC-17
APPROVED	CP 20-DEC-17
SHEET 1 OF 1	
WEIGHT:	

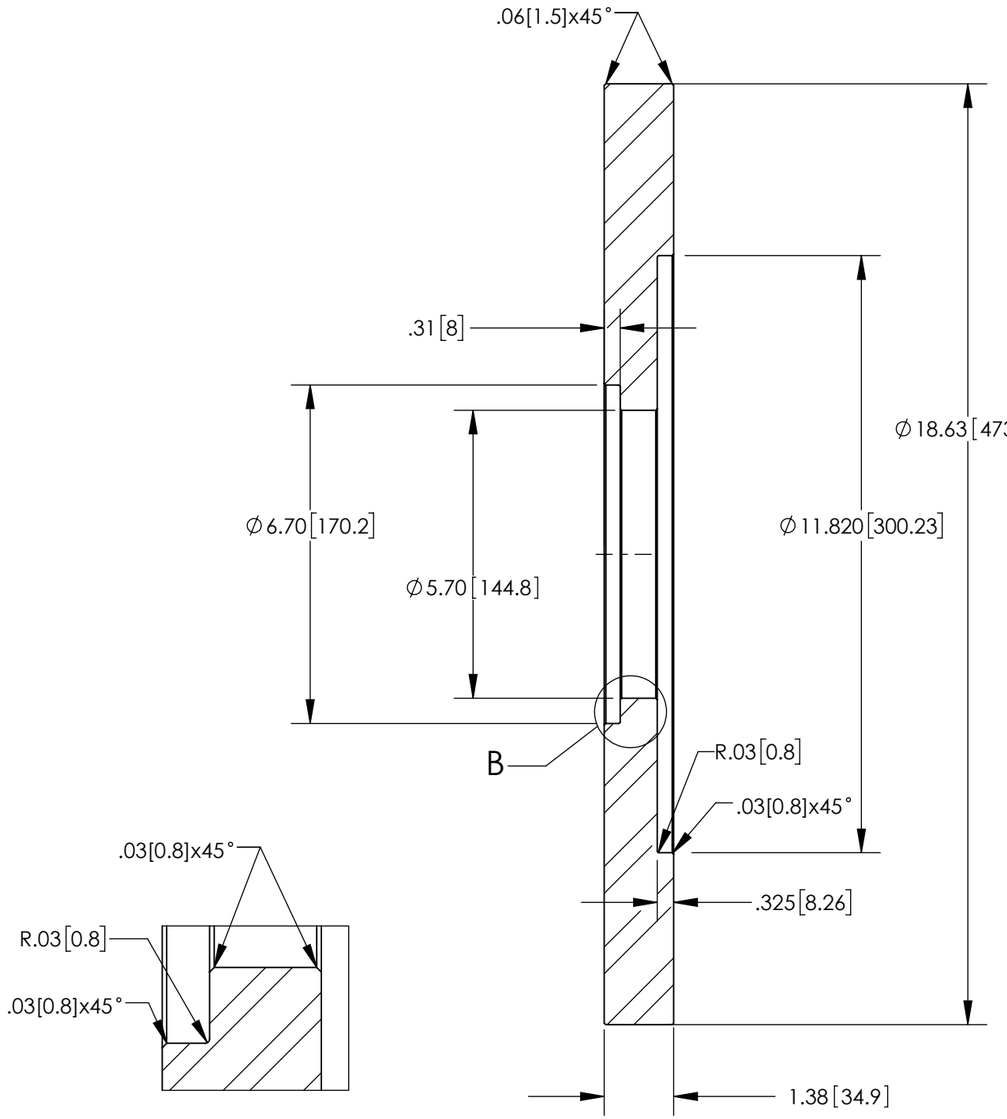
THIRD ANGLE PROJECTION

SCV Valve

DESCRIPTION
40" 300#
SLAB GATE
YOKE BASE

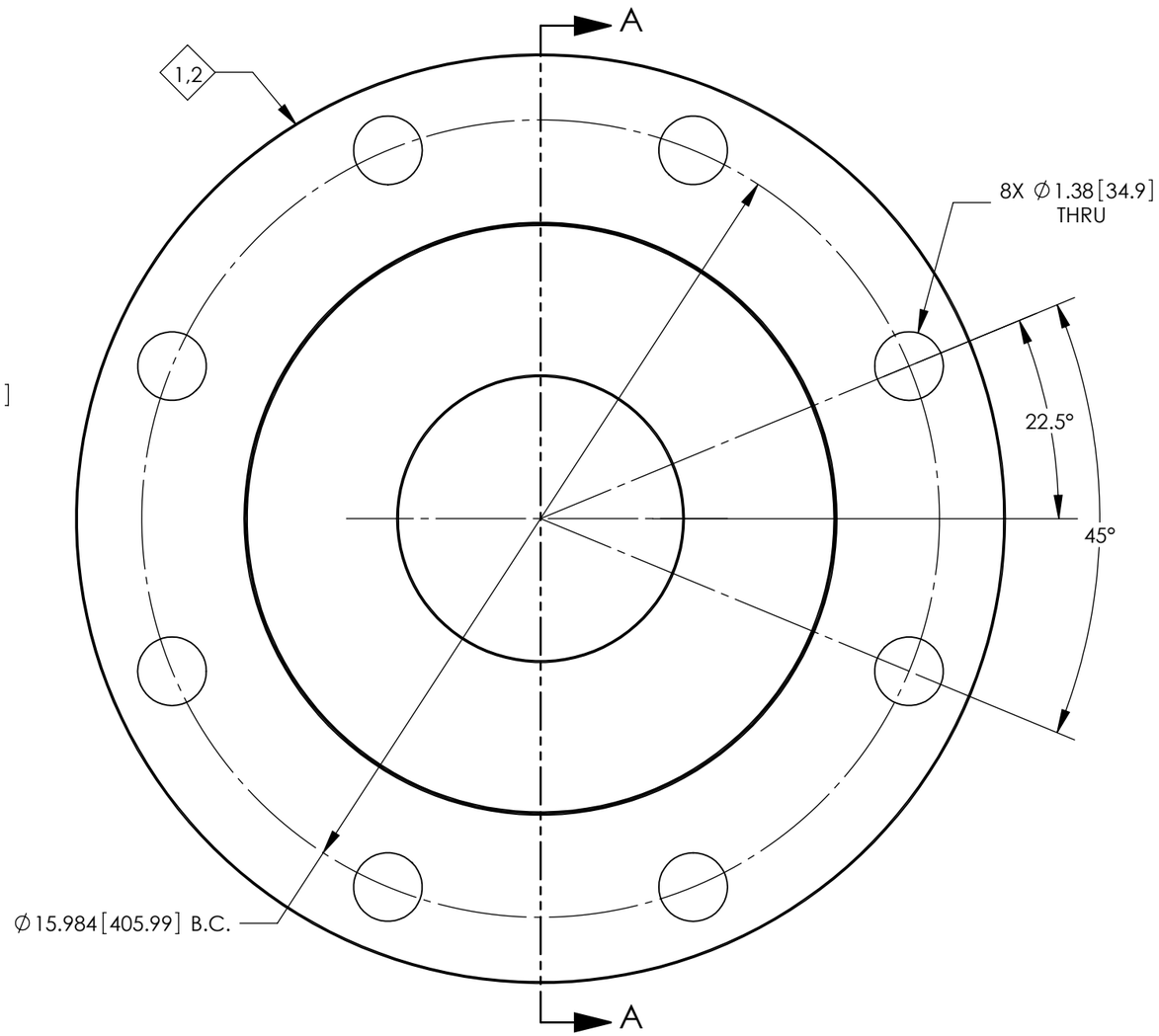
SIZE B | P/N TCG4003BA11 | REV. 1

LOC	MARKING DATA
1	TCG4003BA12 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.



DETAIL B
SCALE 1 : 1

SECTION A-A



REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	20-DEC-17	JM	CP

REVISION

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.X= ±.030 [0.8]
.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

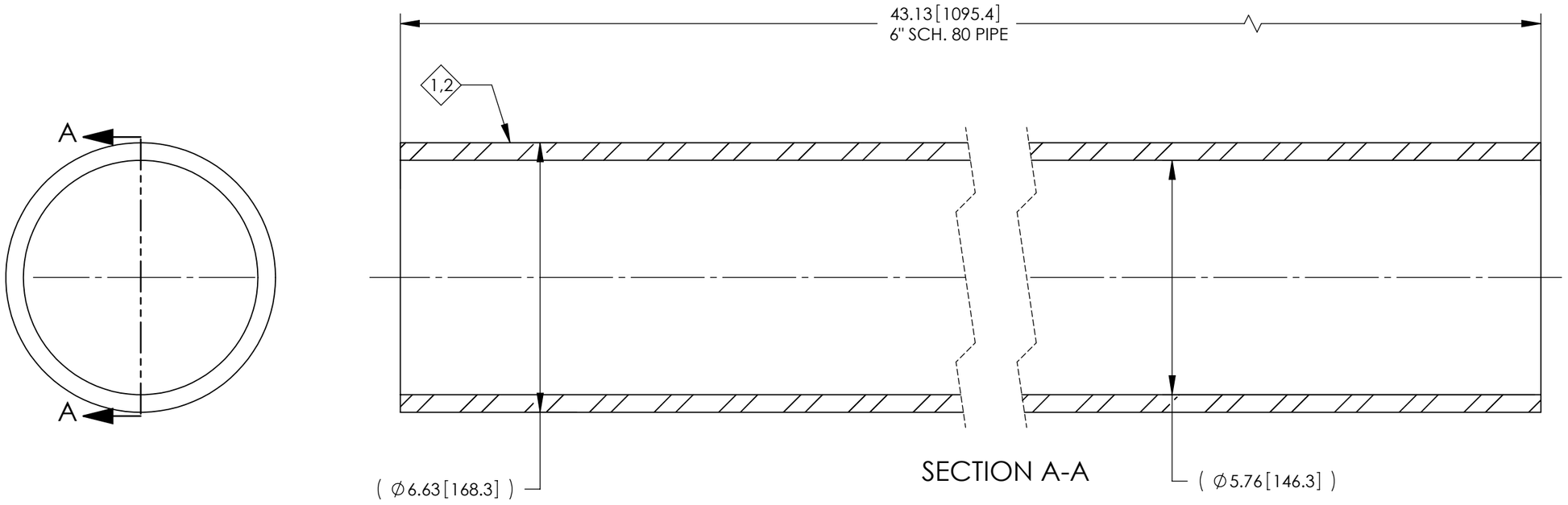
DRAWN	JM	20-DEC-17
CHECKED	JS	20-DEC-17
APPROVED	CP	20-DEC-17
SHEET 1 OF 1		
WEIGHT:		THIRD ANGLE PROJECTION

SCV Valve

DESCRIPTION
40" 300#
TCG GATE
YOKE TOP - FA40

SIZE B | P/N **TCG4003BA12** | REV. 1

LOC	MARKING DATA
1	TCG4003BA13 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.



SECTION A-A

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	20-DEC-17	JM	CP

REVISION

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TOLERANCES ARE:
.X= ±.030 [0.8]
.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

DRAWN	JM	20-DEC-17
CHECKED	JS	20-DEC-17
APPROVED	CP	20-DEC-17
SHEET 1 OF 1		
WEIGHT:		

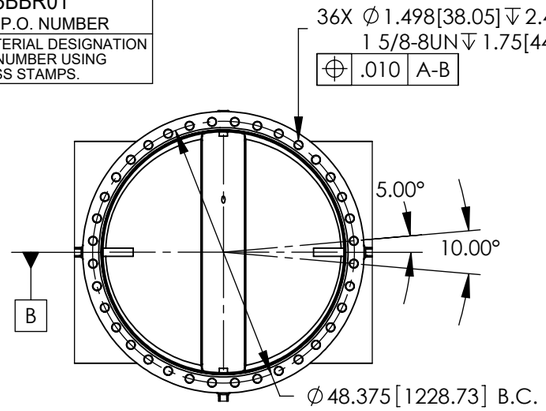
THIRD ANGLE PROJECTION

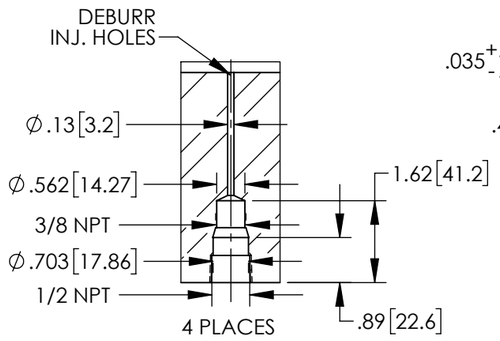
SCV Valve

DESCRIPTION
40" 300#
SLAB GATE
YOKE TUBE

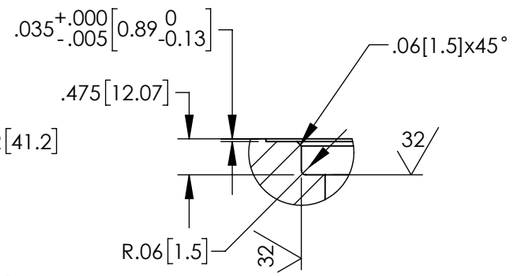
SIZE B | P/N **TCG4003BA13** | REV. 1

LOC	MARKING DATA
1	TCG4003BBR01 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.

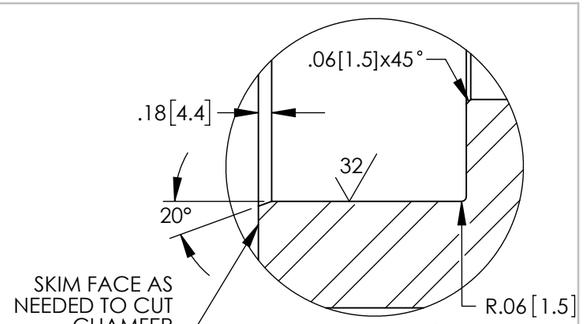




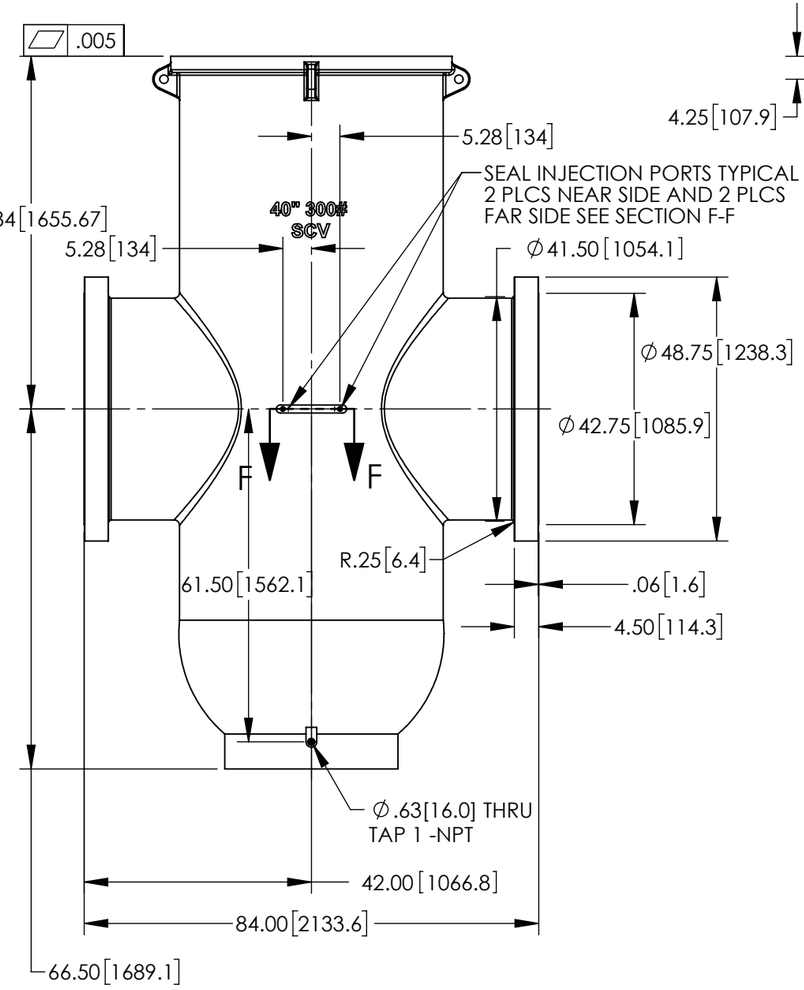
SECTION F-F
SCALE 1 : 3

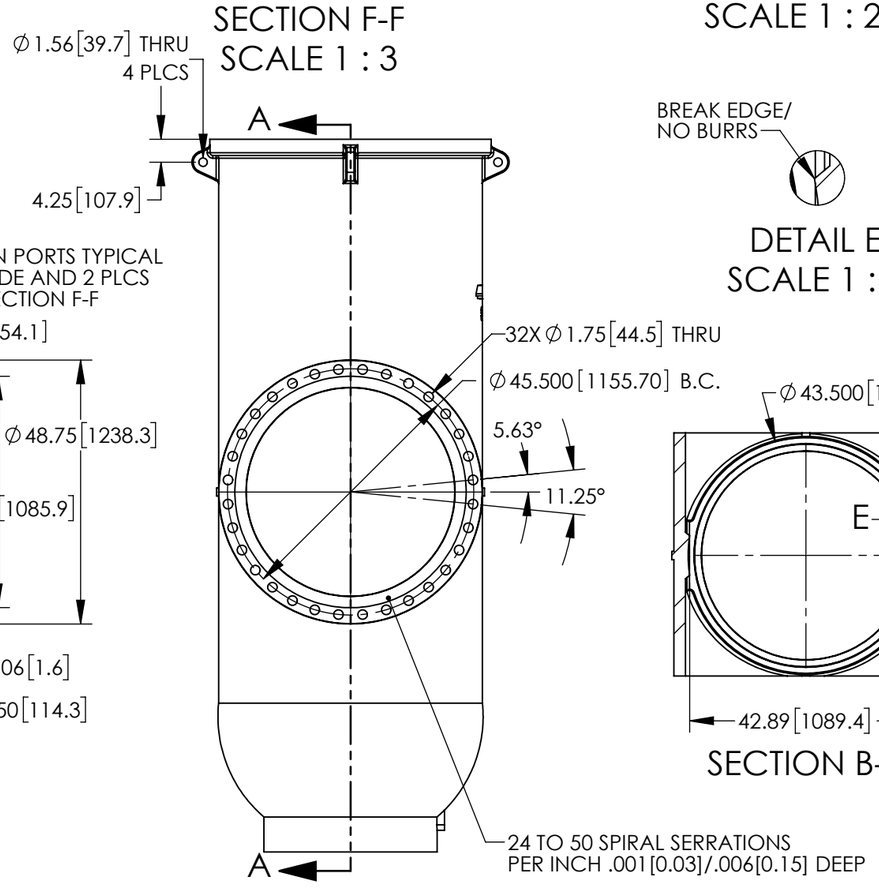


DETAIL D
SCALE 1 : 2



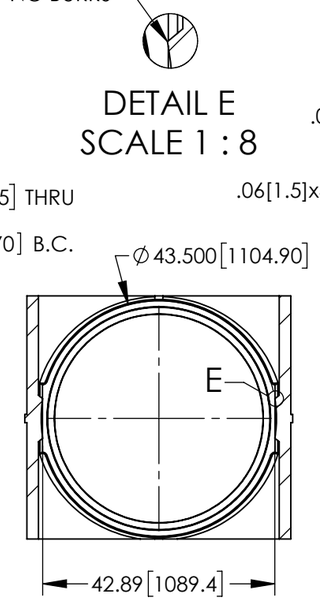
DETAIL C
SCALE 1 : 2



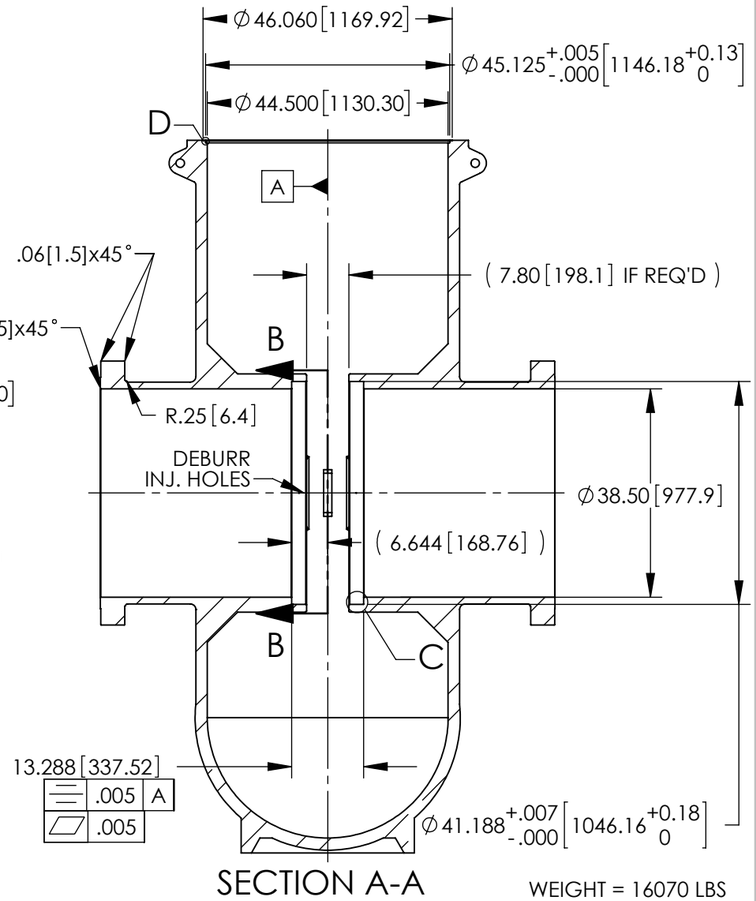


BREAK EDGE/
NO BURRS

DETAIL E
SCALE 1 : 8



SECTION B-B



SECTION A-A

WEIGHT = 16070 LBS

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	12-SEP-17	JM	CP

REVISION

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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES [mm]
TOLERANCES ARE:
.X= ±.030 [0.8]
.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE
125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

DRAWN JM	12-SEP-17
CHECKED JS	12-SEP-17
APPROVED CP	12-SEP-17
SHEET 1 OF 1	
WEIGHT:	

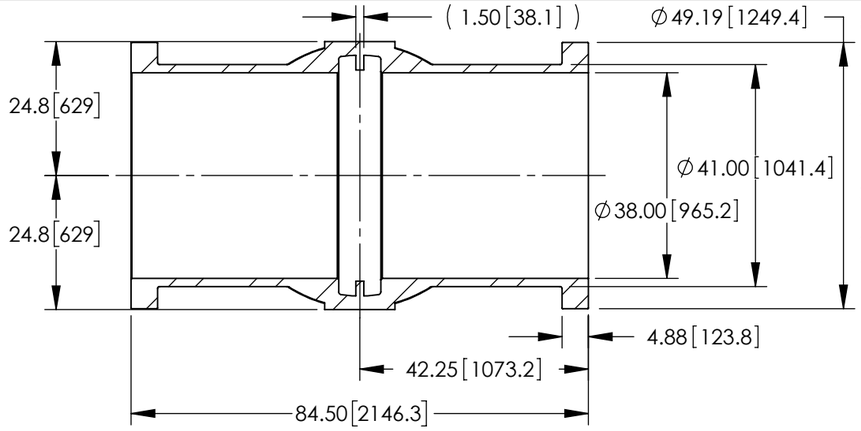
THIRD ANGLE PROJECTION

SCV Valve

DESCRIPTION
40" 300# RF
SLAB GATE
BODY MACHINING

SIZE B | P/N TCG4003BBR01 | REV. 1

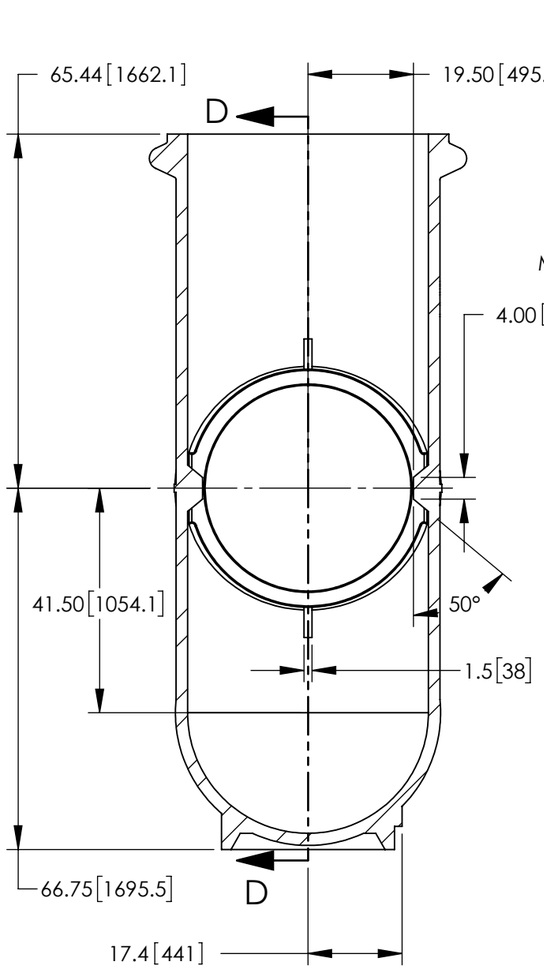
LOC	MARKING DATA
1	TCG4003BBR01-CAST REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.



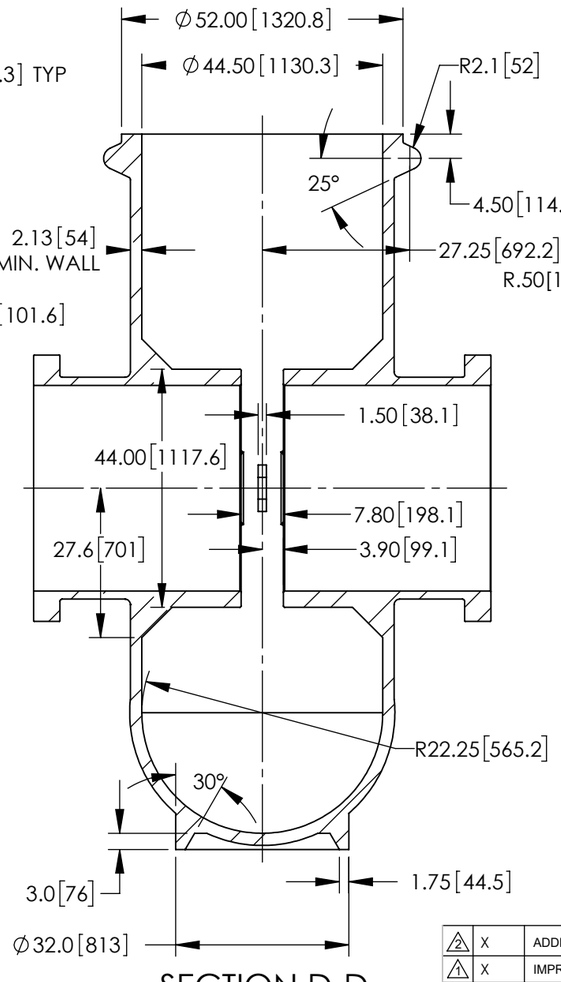
SECTION B-B

CASTING REQUIREMENTS:

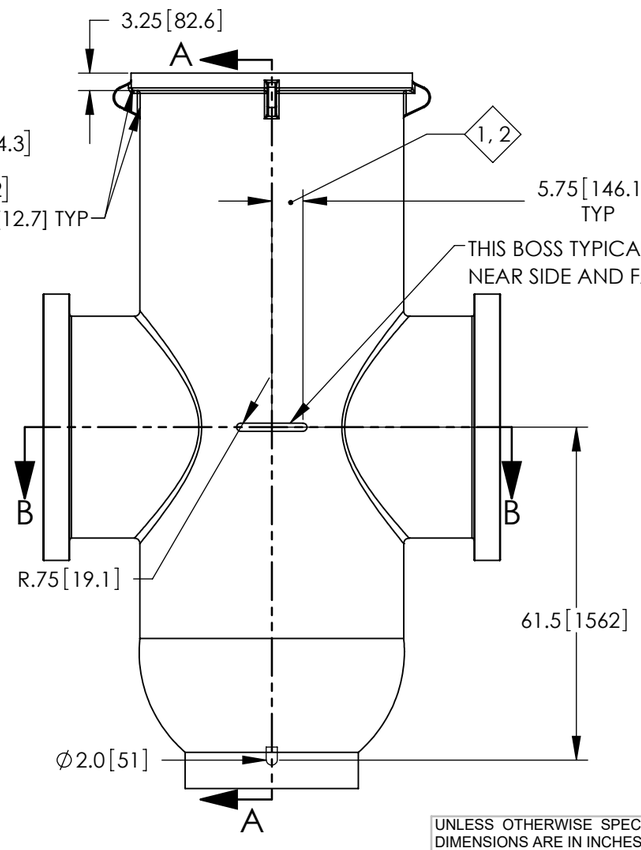
1. FINISHED CASTING MUST BE CHECKED FOR STRAIGHTNESS AFTER HEAT TREATING.
2. EACH PIECE SHALL BE MARKED WITH:
   - FOUNDRY LOGO
   - MAT'L DESIGNATION
   - HEAT NUMBER
3. COMMERICAL CASTINGS - VISUALLY INSPECT TO MSS SP-55.
4. DRAFT 2° UNLESS OTHERWISE SPECIFIED.
5. SEE PURCHASE ORDER FOR ADDITIONAL REQUIREMENTS.

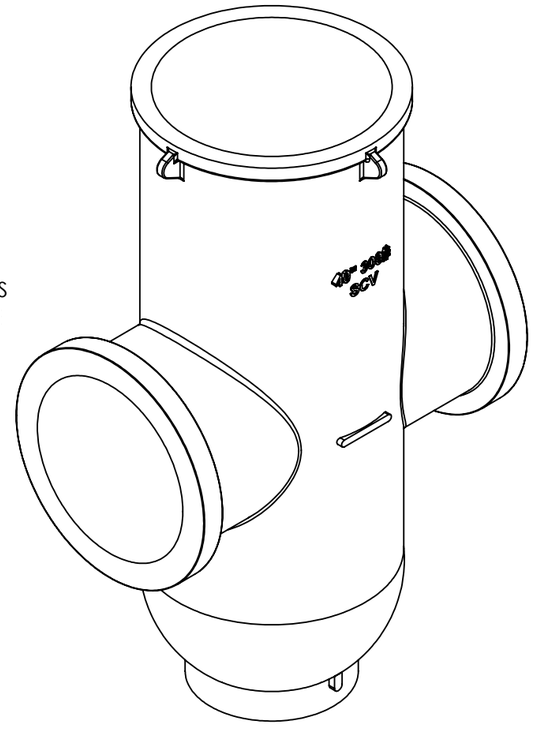


SECTION A-A



SECTION D-D





WEIGHT = 17547 LBS

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
2	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
1	X	IMPROVED DIMENSION PER FOUNDRY	12-JAN-18	JM	CP
0	X	RELEASED DRAWING	10-JAN-18	JM	CP

REVISION

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES [MM]
TOLERANCES ARE:
.X[0]= ±.10 [2.5]
.XX[0.X]= ±.06 [1.5]
ANGULAR= ±1°

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

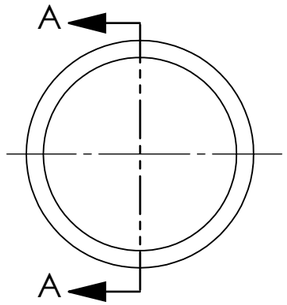
DRAWN	JM	10-JAN-18
CHECKED	JS	10-JAN-18
APPROVED	CP	10-JAN-18
SHEET 1 OF 1		
WEIGHT:		THIRD ANGLE PROJECTION

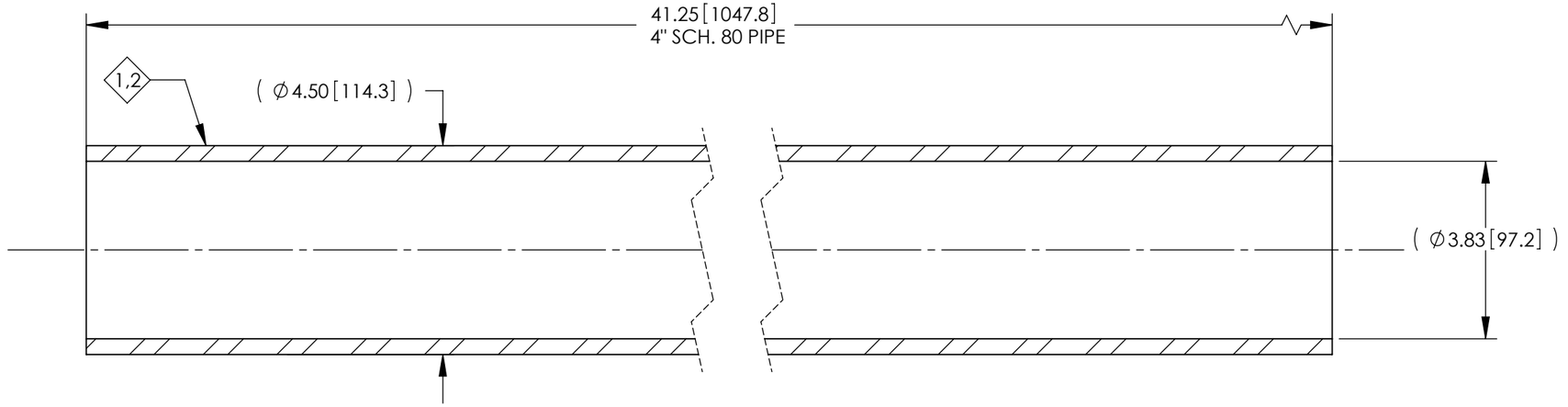
SCV Valve

DESCRIPTION
40" 300# RF
SLAB GATE VALVE
BODY CASTING

SIZE	P/N	REV.
B	TCG4003BBR01-CAST	2

LOC	MARKING DATA
1	TCG4001BA13 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.





SECTION A-A

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	20-DEC-17	JM	CP

REVISION

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.X= ±.030 [0.8]
.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

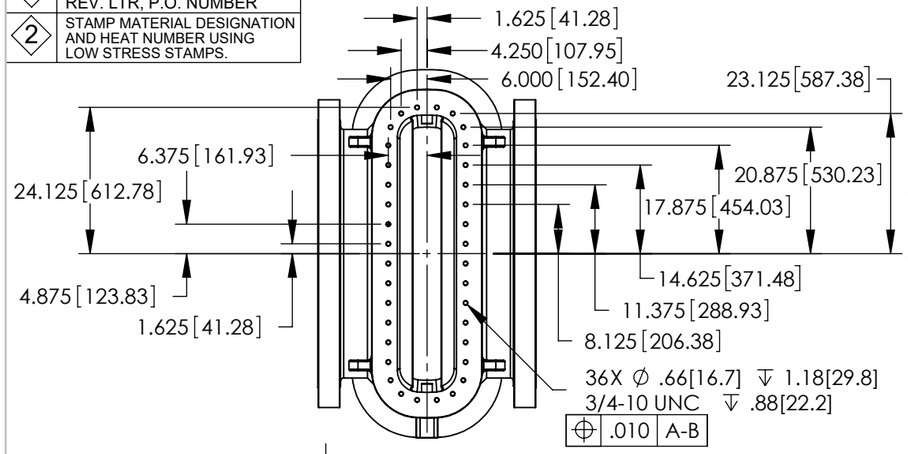
DRAWN	JM	20-DEC-17
CHECKED	JS	20-DEC-17
APPROVED	CP	20-DEC-17
SHEET 1 OF 1		
WEIGHT:		THIRD ANGLE PROJECTION

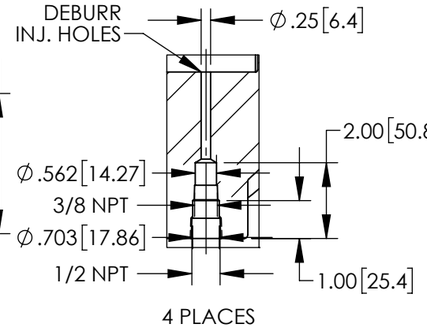
SCV Valve

DESCRIPTION
40" 150#
SLAB GATE
YOKE TUBE

SIZE	P/N	REV.
B	TCG4001BA13	1

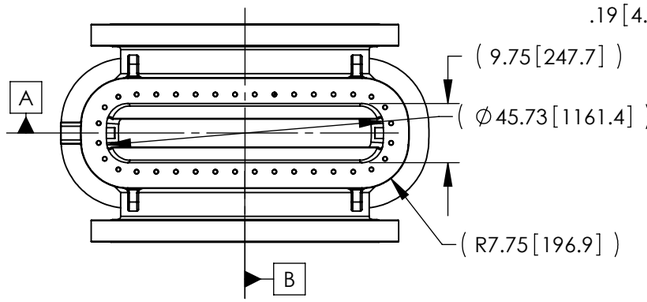
LOC	MARKING DATA
1	TCG4001BBR01 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.

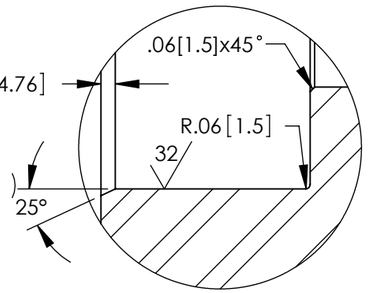




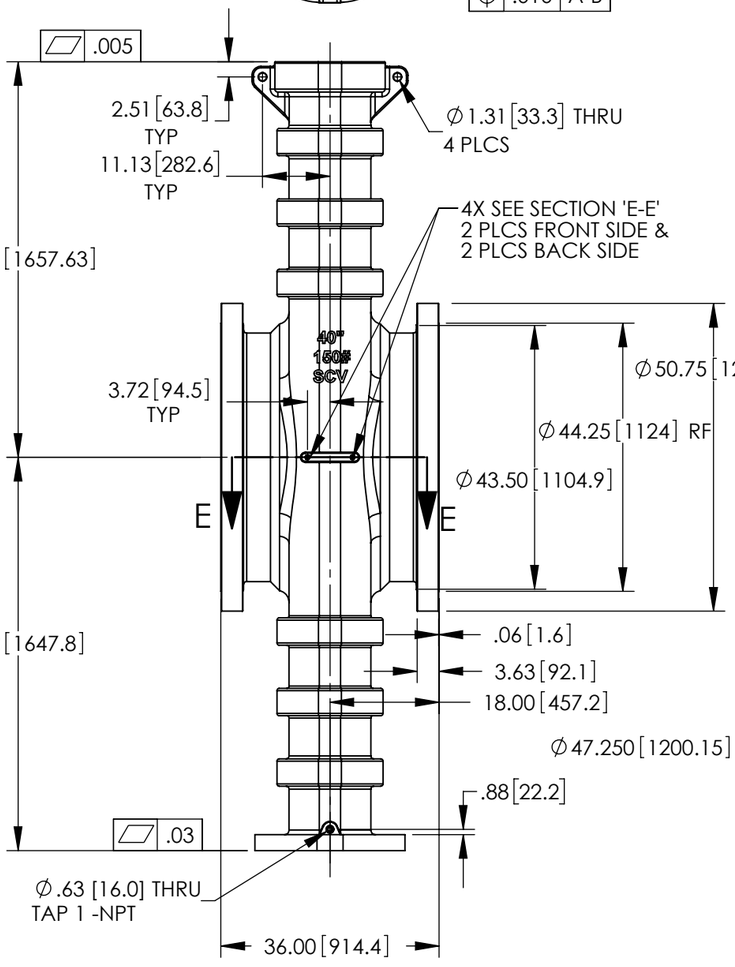
4 PLACES

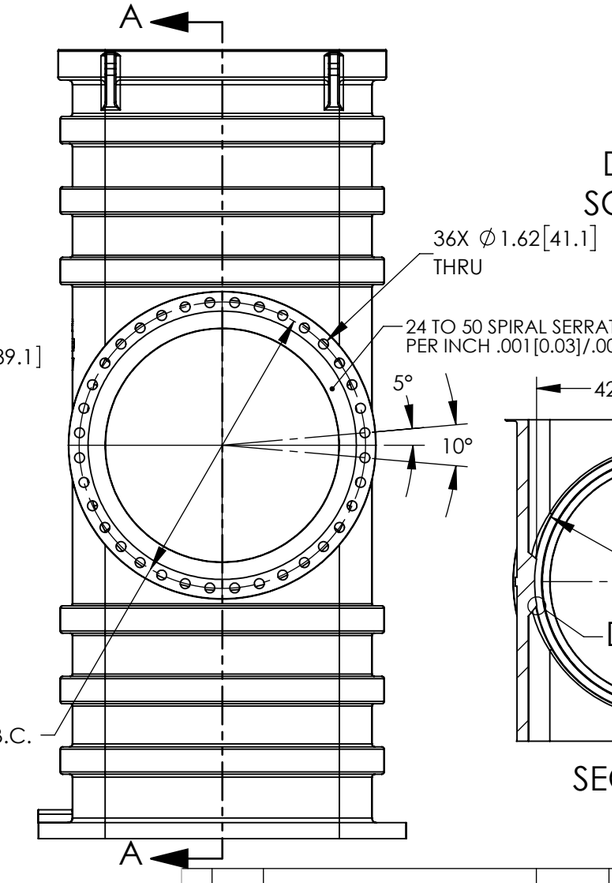
SECTION E-E
SCALE 1 : 4



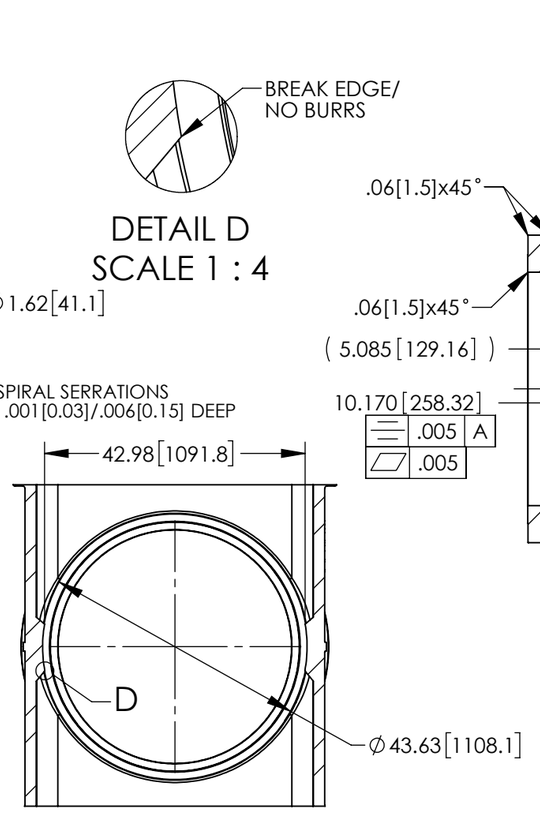


DETAIL C
SCALE 1 : 2

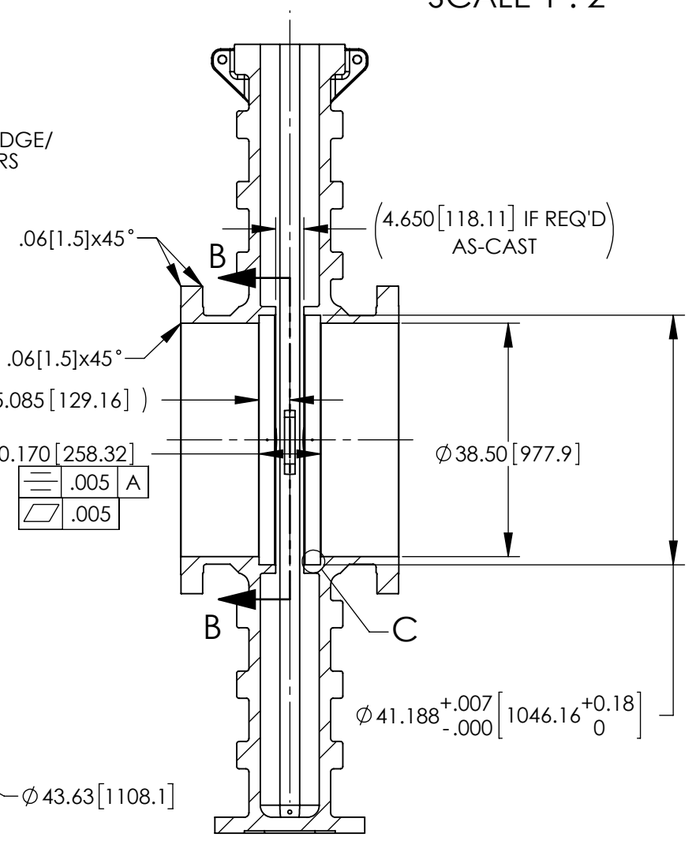




DETAIL D
SCALE 1 : 4



SECTION B-B



SECTION A-A

WEIGHT = 12455 LBS

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	20-DEC-17	JM	CP

REVISION

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES [mm]
TOLERANCES ARE:
.X= ±.030 [0.8]
.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

DRAWN	JM 20-DEC-17
CHECKED	JS 20-DEC-17
APPROVED	CP 20-DEC-17
SHEET 1 OF 1	
WEIGHT:	

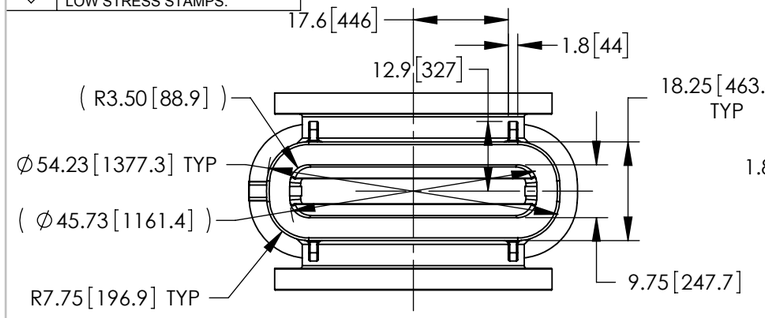
THIRD ANGLE PROJECTION

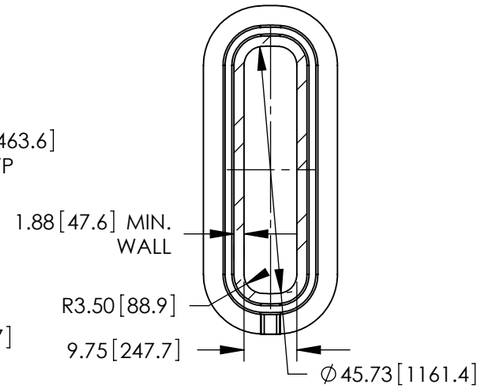
SCV Valve

DESCRIPTION
40" 150# RF
SLAB GATE
BODY MACHINING

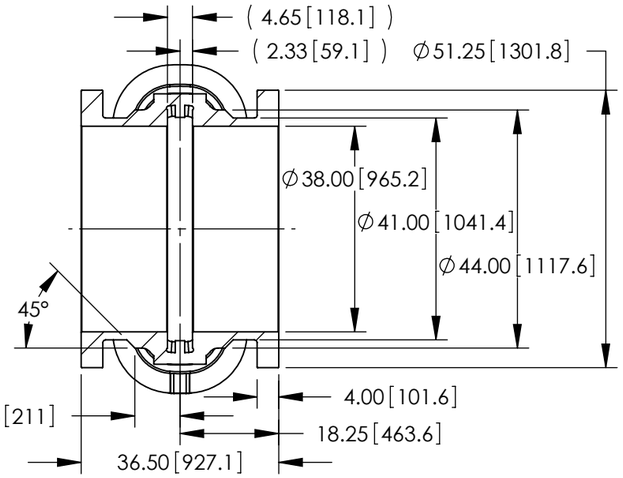
SIZE	P/N	REV.
B	TCG4001BBR01	1

LOC	MARKING DATA
1	TCG4001BBR01-CAST REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.





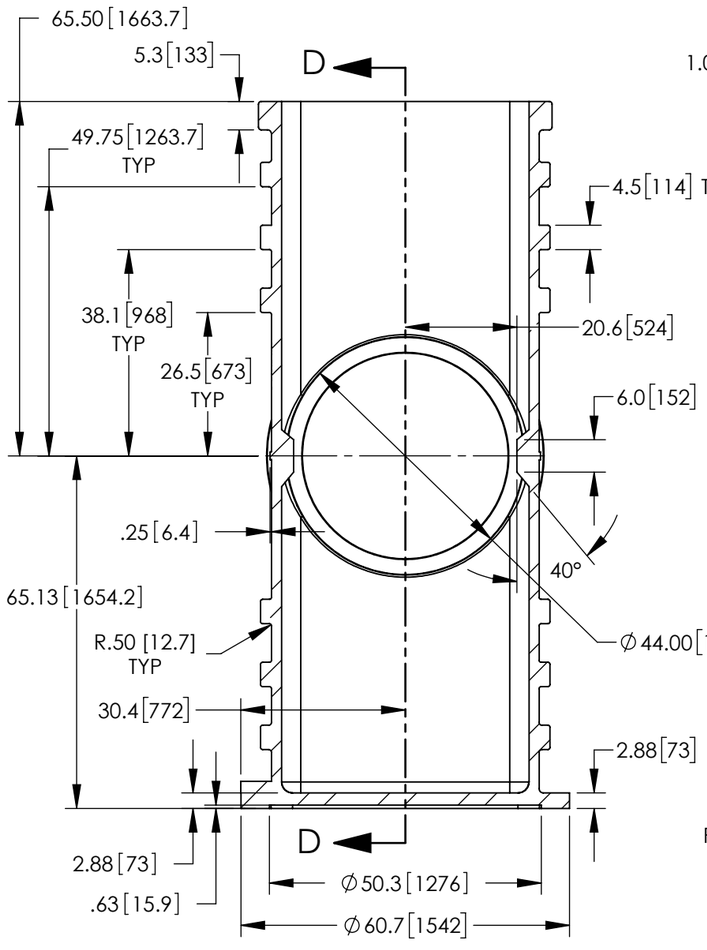
SECTION C-C



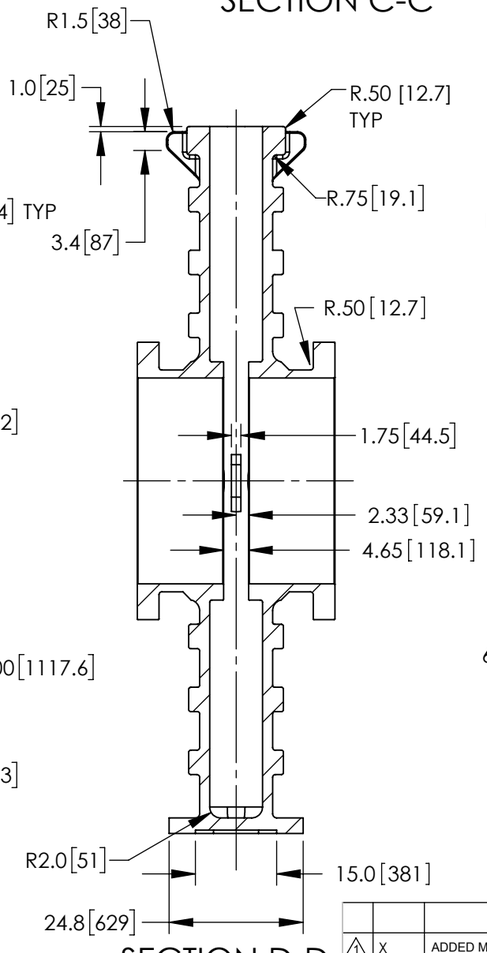
SECTION B-B

CASTING REQUIREMENTS:

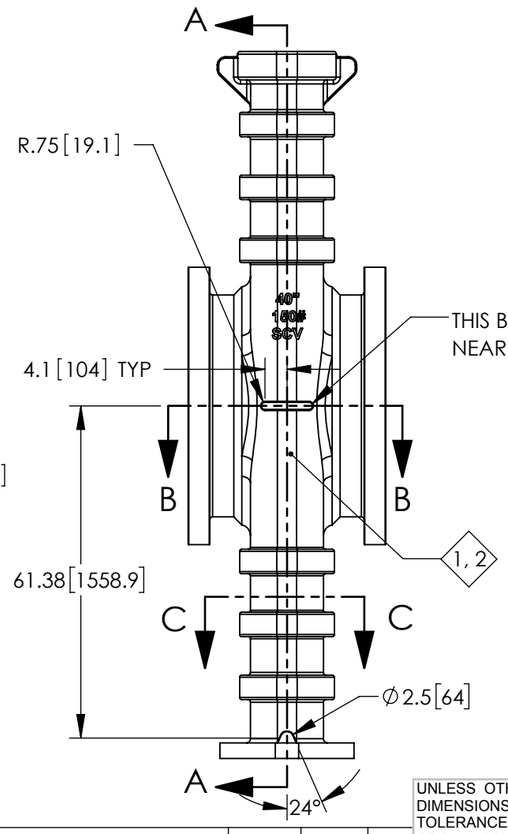
1. FINISHED CASTING MUST BE CHECKED FOR STRAIGHTNESS AFTER HEAT TREATING.
2. EACH PIECE SHALL BE MARKED WITH:
   - FOUNDRY LOGO
   - MAT'L DESIGNATION - 1/2" CAST
   - HEAT NUMBER - 1/4" STAMPED
   SAMPLES SHALL BE X-RAYED TO PROVE FOUNDRY TECHNIQUE.
3. COMMERICAL CASTINGS - VISUALLY INSPECT TO MSS SP-55.
4. DRAFT 2° UNLESS OTHERWISE SPECIFIED.
5. SEE PURCHASE ORDER FOR ADDITIONAL REQUIREMENTS.

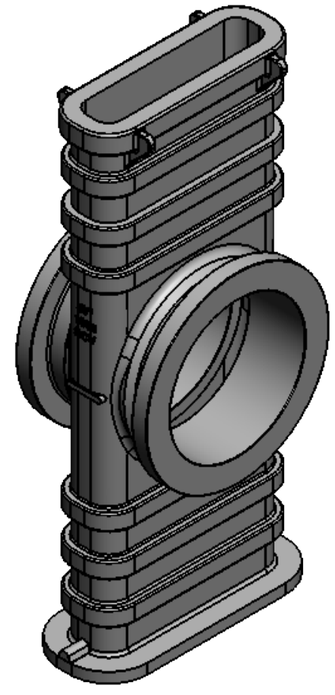


SECTION A-A



SECTION D-D





WEIGHT = 13500 LBS

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	20-DEC-17	JM	CP

REVISION

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES [MM]
TOLERANCES ARE:
.X[0]= ±.10 [2.5]
.XX[0.X]= ±.06 [1.5]
ANGULAR= ±1°

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

DRAWN	JM	20-DEC-17
CHECKED	JS	20-DEC-17
APPROVED	CP	20-DEC-17
SHEET 1 OF 1		
WEIGHT:		

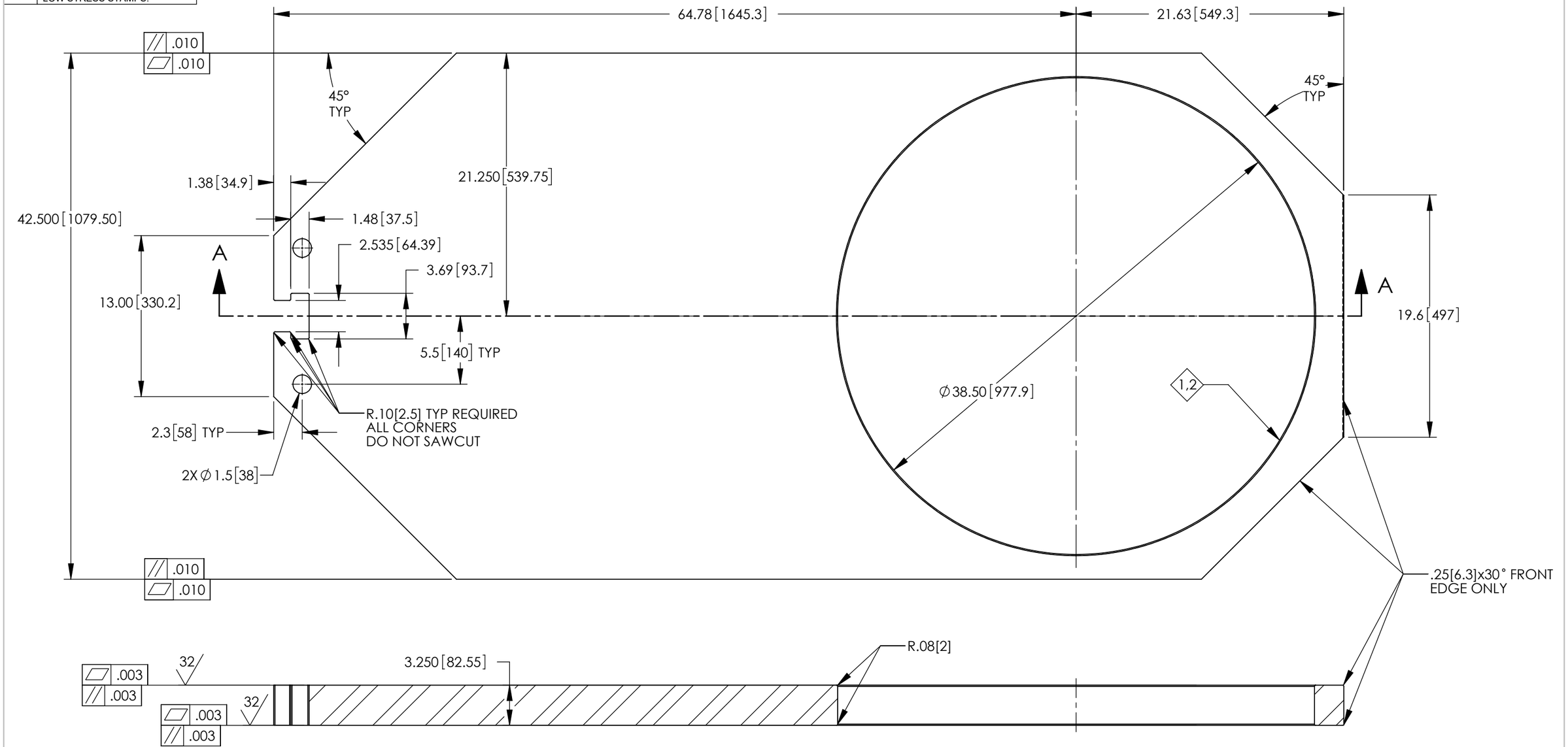
THIRD ANGLE PROJECTION

SCV Valve

DESCRIPTION
40" 150# RF
SLAB GATE VALVE
BODY CASTING

SIZE B | P/N TCG4001BBR01-CAST | REV. 2

LOC	MARKING DATA
1	TCG4001BC01 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.



SECTION A-A

WEIGHT = 1973 LBS

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	20-DEC-17	JM	CP

REVISION

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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES [mm]
TOLERANCES ARE:
.X= ±.030 [0.8]
.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

DRAWN	JM	20-DEC-17
CHECKED	JS	20-DEC-17
APPROVED	CP	20-DEC-17
SHEET 1 OF 1		
WEIGHT:		

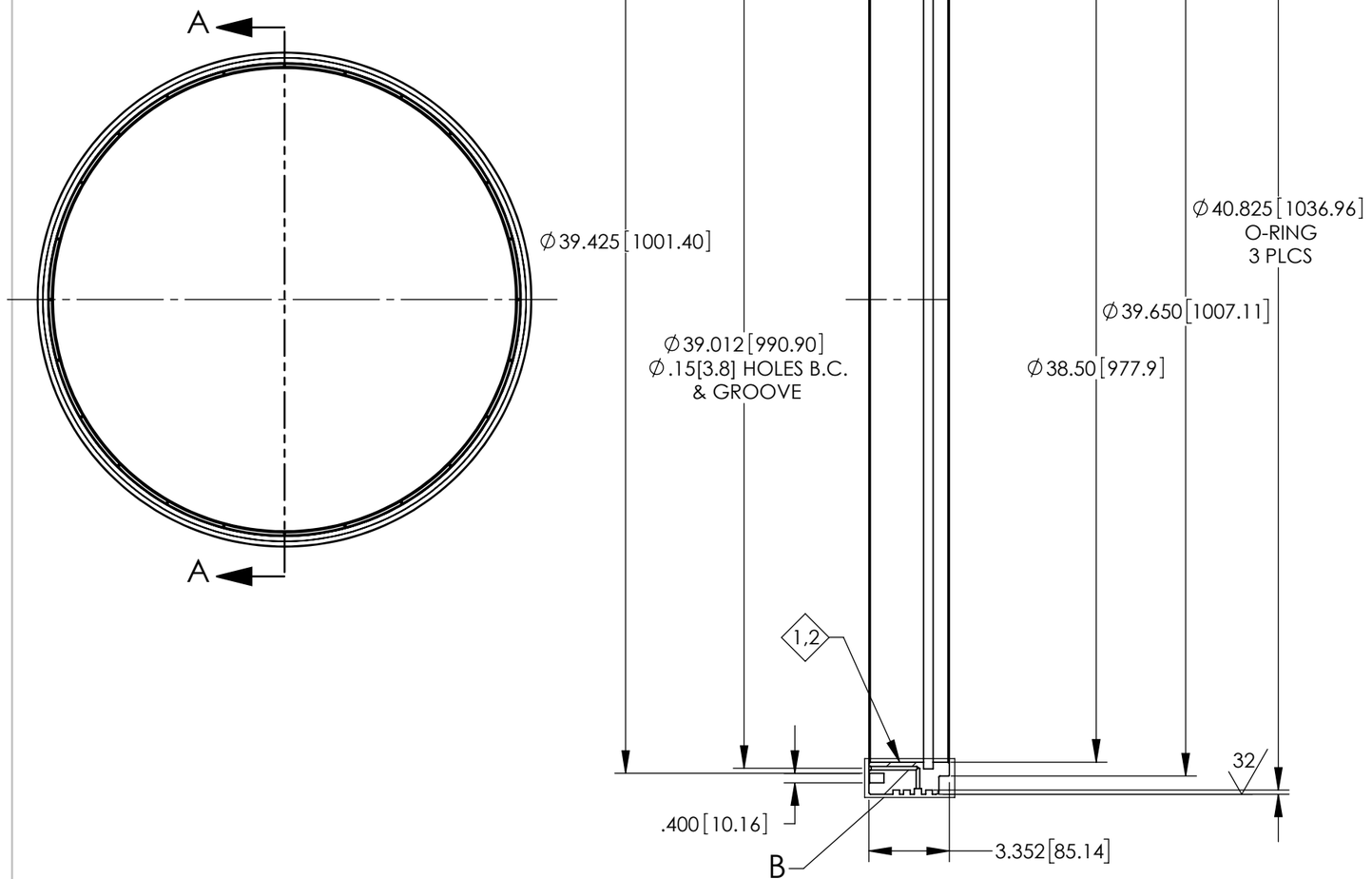
THIRD ANGLE PROJECTION

SCV Valve

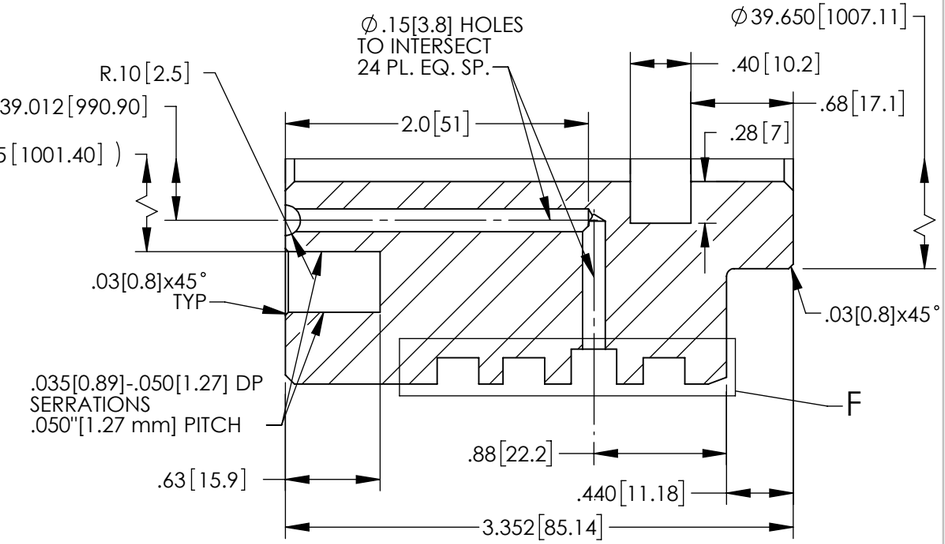
DESCRIPTION
40" 150#
SLAB GATE VALVE
GATE

SIZE	P/N	REV.
B	TCG4001BC01	1

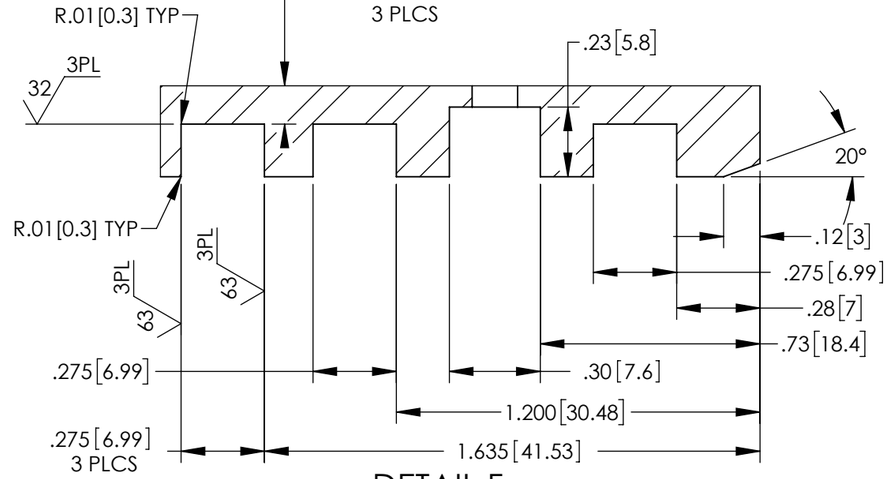
LOC	MARKING DATA
1	TCG4001BD01 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.



SECTION A-A



DETAIL B
SCALE 1 : 1



DETAIL F
SCALE 2 : 1

-SPECIAL O-RINGS
.210[5.33] C.S. x 40.25[1022.3] ±0.25[6.3] I.D.

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	20-DEC-17	RD	JM

REVISION

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TOLERANCES ARE:
.X= ±.030 [0.8]
.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE
125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

DRAWN	RD	20-DEC-17
CHECKED	JS	20-DEC-17
APPROVED	JM	20-DEC-17
SHEET 1 OF 1		
WEIGHT:		

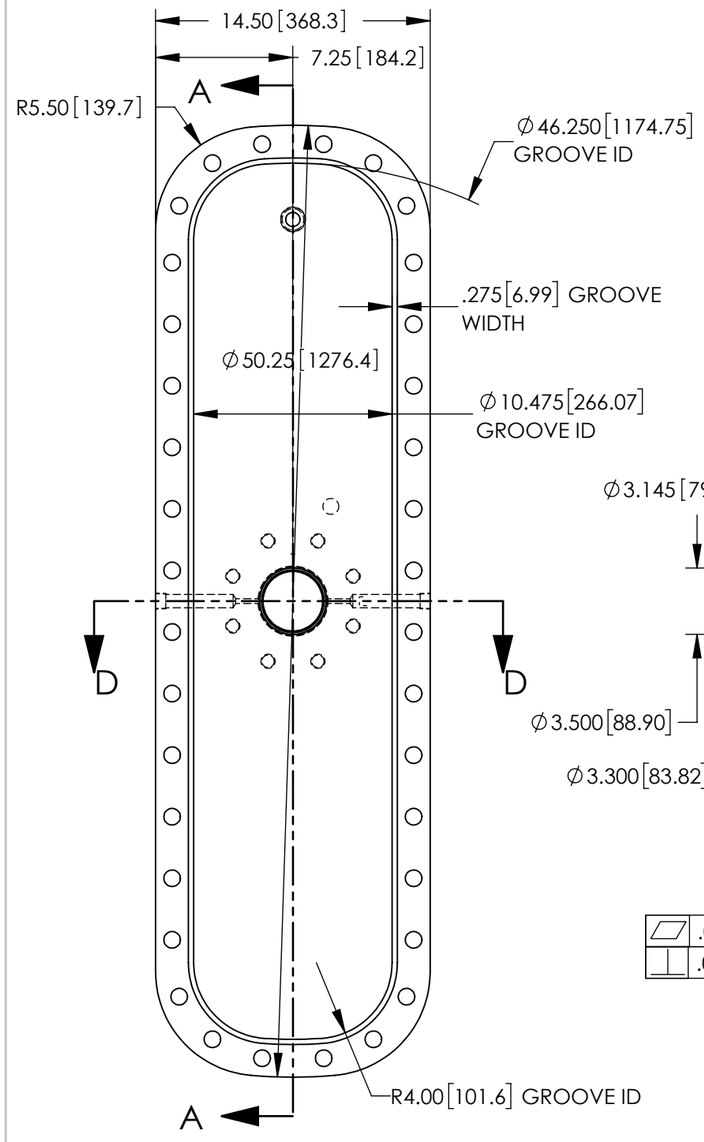
THIRD ANGLE PROJECTION

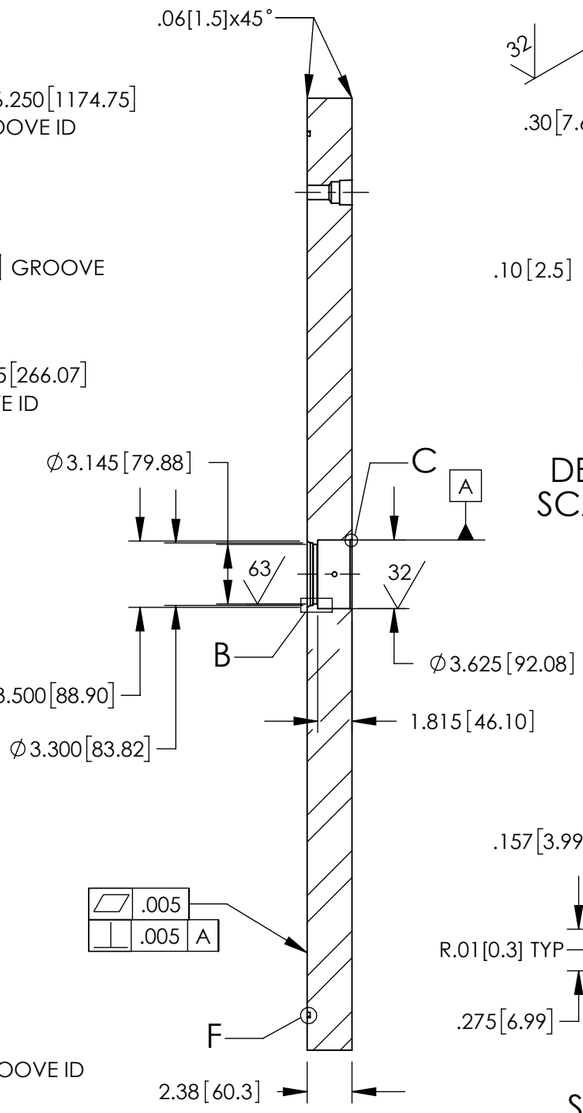
SCV Valve

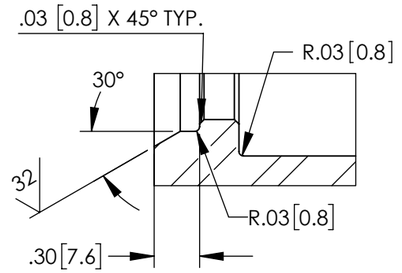
DESCRIPTION
SEAT
40" 150#
SLAB GATE VALVE

SIZE	P/N	REV.
B	TCG4001BD01	1

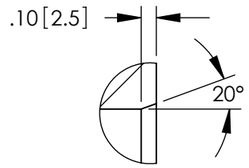
LOC	MARKING DATA
1	TCG4001BE01 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.



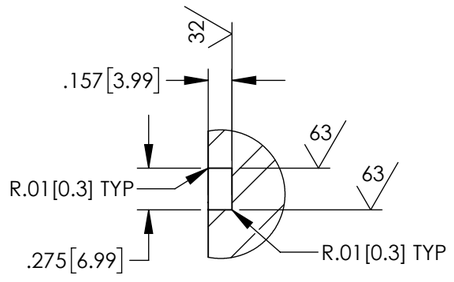




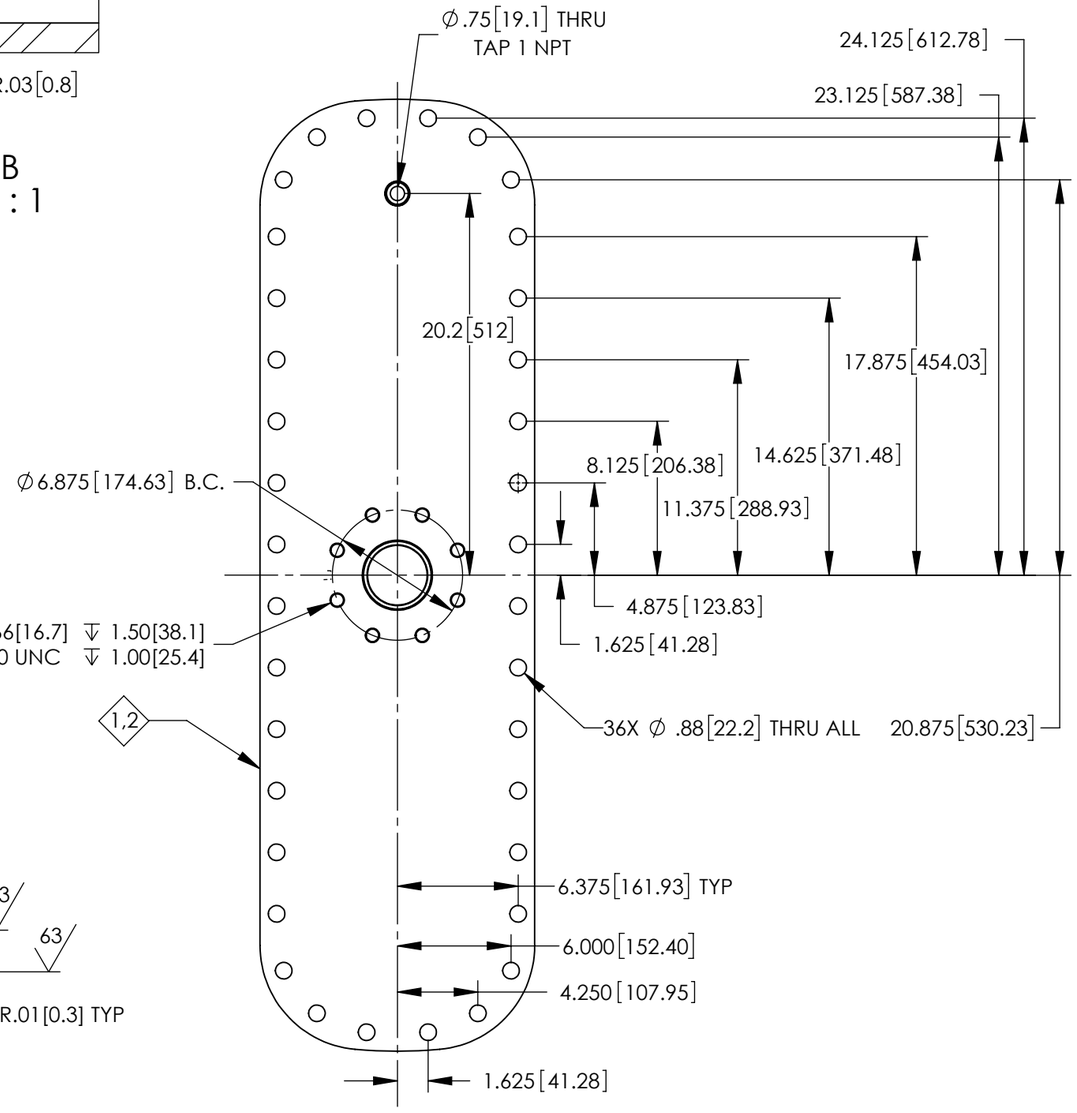
DETAIL B
SCALE 1 : 1

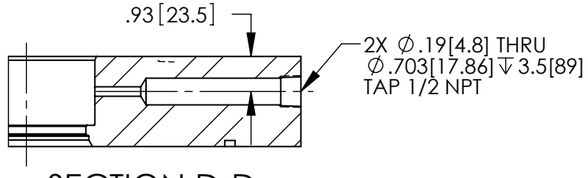


DETAIL C
SCALE 1 : 1



DETAIL F
SCALE 1 : 1





SECTION D-D
SCALE 1 : 4

SECTION A-A

WEIGHT = 446 LBS

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	20-DEC-17	JM	CP

REVISION

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TOLERANCES ARE:
.X= ±.030 [0.8]
.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE
125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

DRAWN	JM	20-DEC-17
CHECKED	JS	20-DEC-17
APPROVED	CP	20-DEC-17
SHEET 1 OF 1		
WEIGHT:		

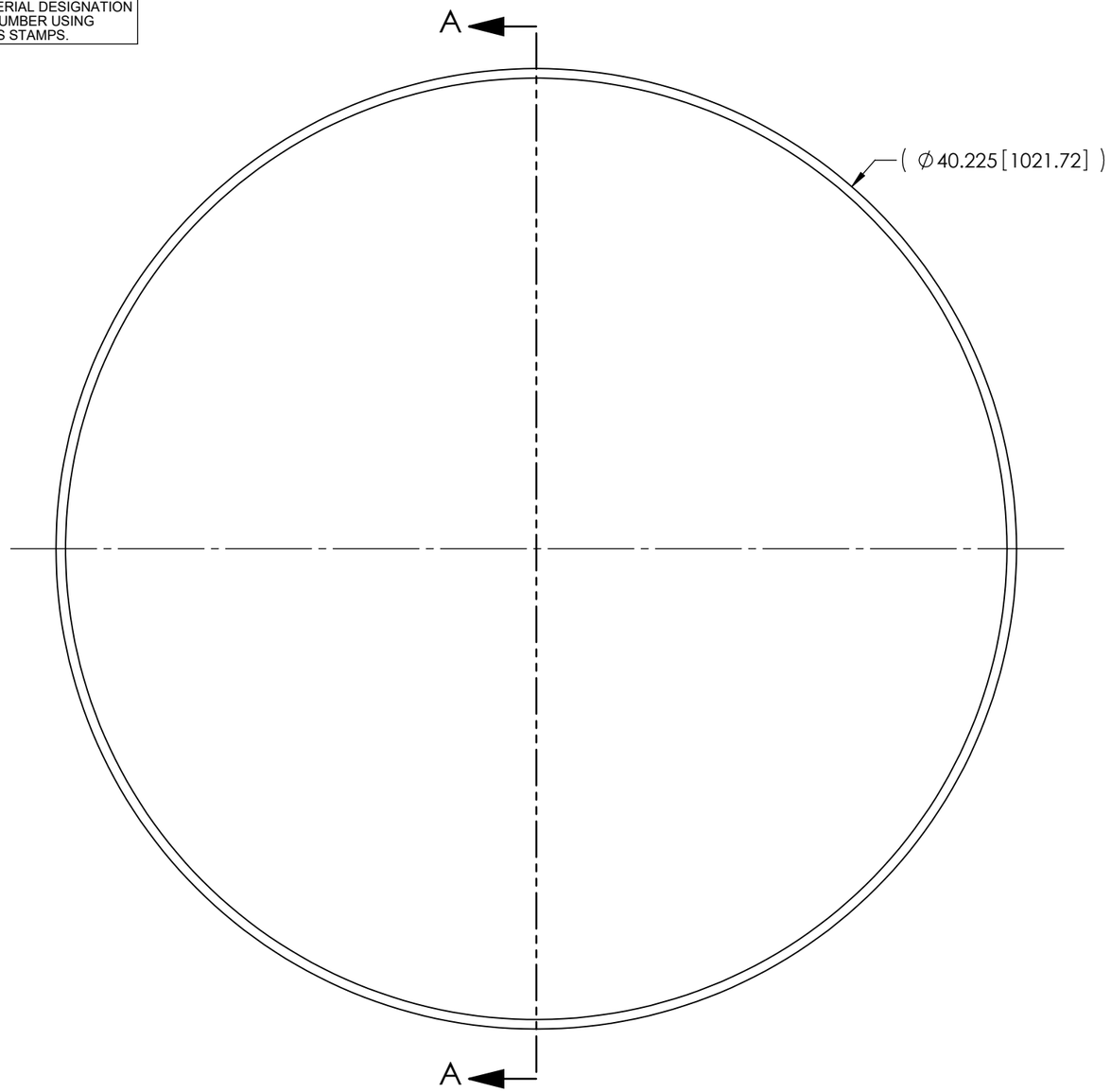
THIRD ANGLE PROJECTION

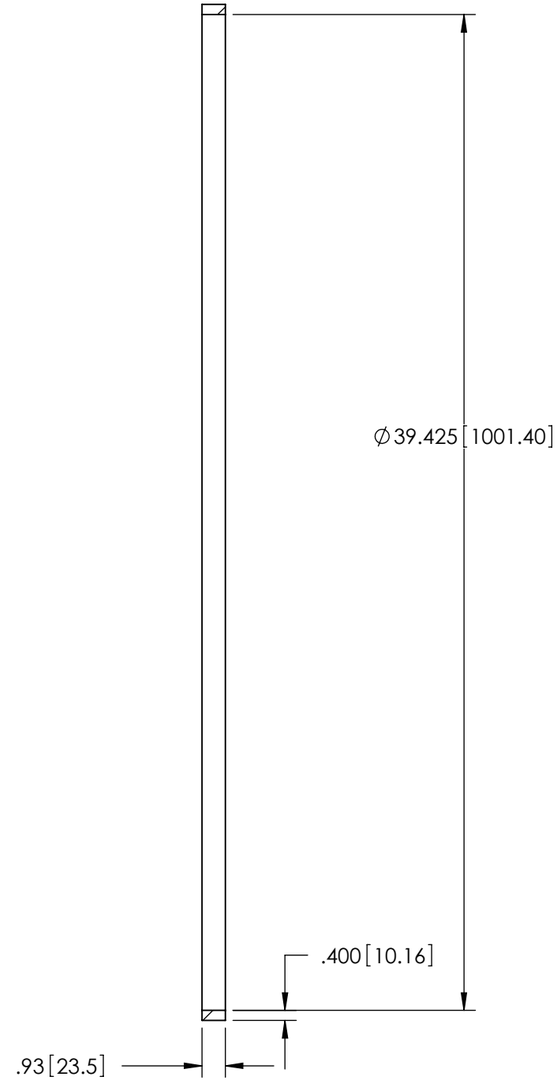
SCV Valve

DESCRIPTION
40" 150#
SLAB GATE
BONNET

SIZE B | P/N TCG4001BE01 | REV. 1

LOC	MARKING DATA
1	TCG4001BJ01 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.





SECTION A-A

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	20-DEC-17	RD	JM

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.X= ±.030 [0.8]
.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

DRAWN	RD	20-DEC-17
CHECKED	JS	20-DEC-17
APPROVED	JM	20-DEC-17
SHEET 1 OF 1		
WEIGHT:		

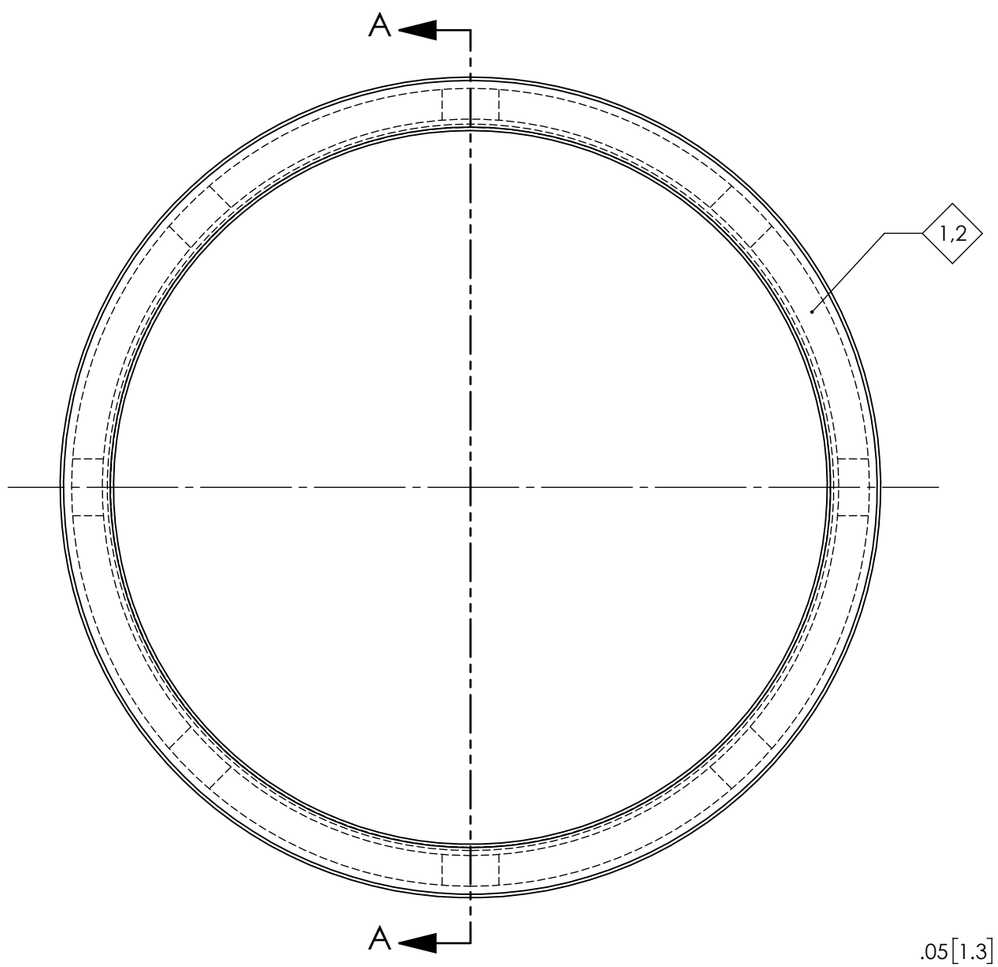
THIRD ANGLE PROJECTION

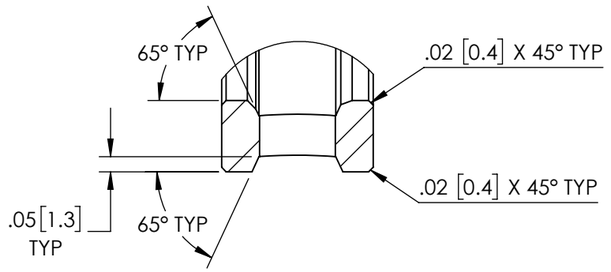
SCV Valve

DESCRIPTION
SEAT INSERT
40" 150/300#
TCG GATE

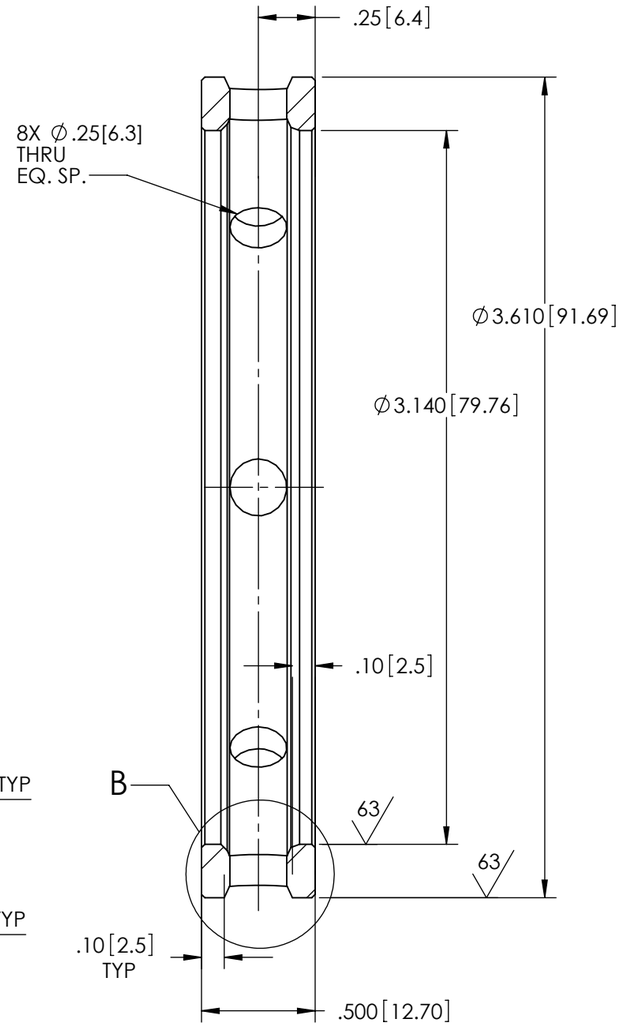
SIZE B | P/N **TCG4001BJ01** | REV. 1

LOC	MARKING DATA
1	TCG4001BL01 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.





DETAIL B
SCALE 2 : 1



SECTION A-A

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	20-DEC-17	RD	JM

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.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

DRAWN	RD	20-DEC-17
CHECKED	JS	20-DEC-17
APPROVED	JM	20-DEC-17
SHEET 1 OF 1		
WEIGHT:		

THIRD ANGLE PROJECTION

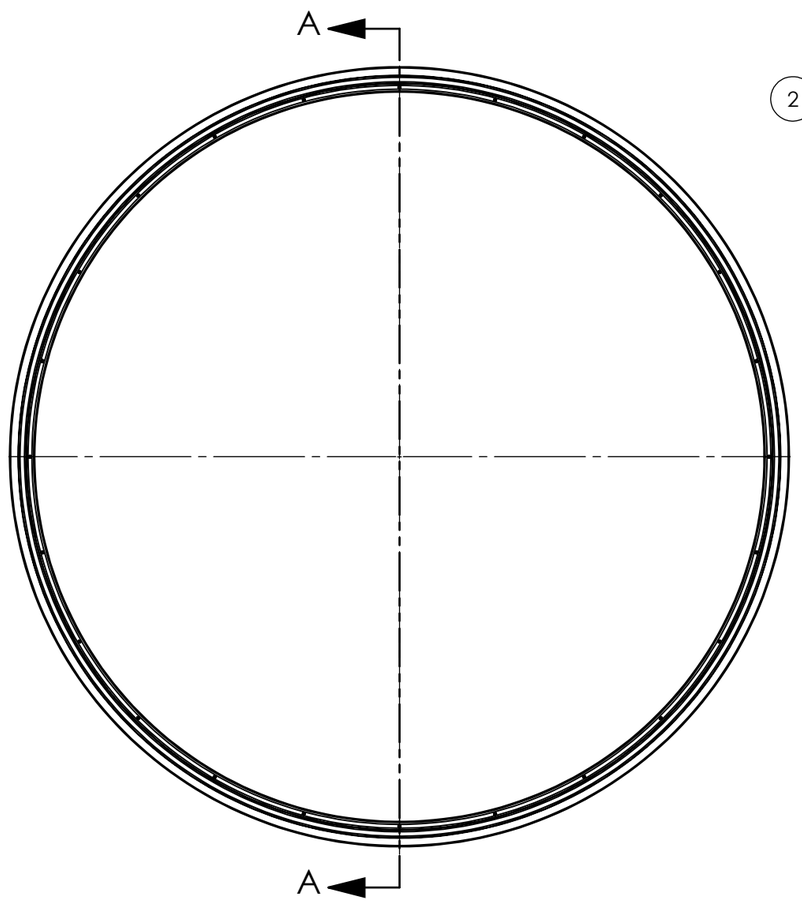
SCV Valve

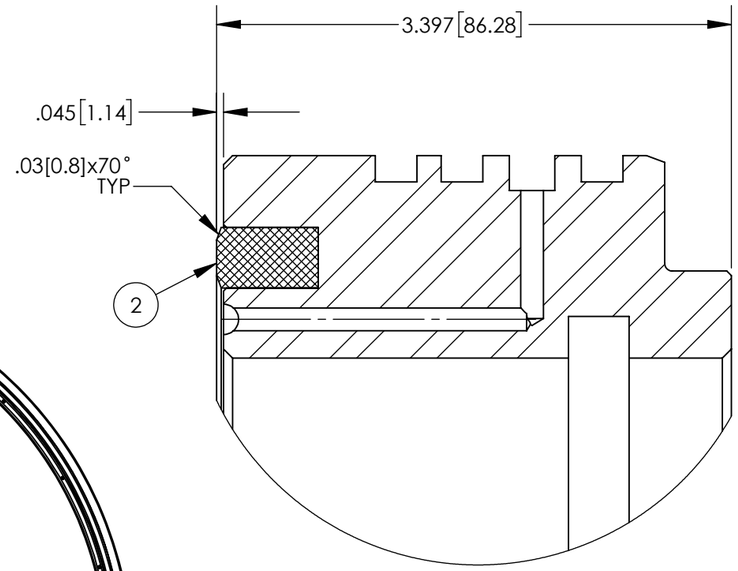
DESCRIPTION
LANTERN RING
40" 150#
SLAB GATE

SIZE B | P/N **TCG4001BL01** | REV. 1

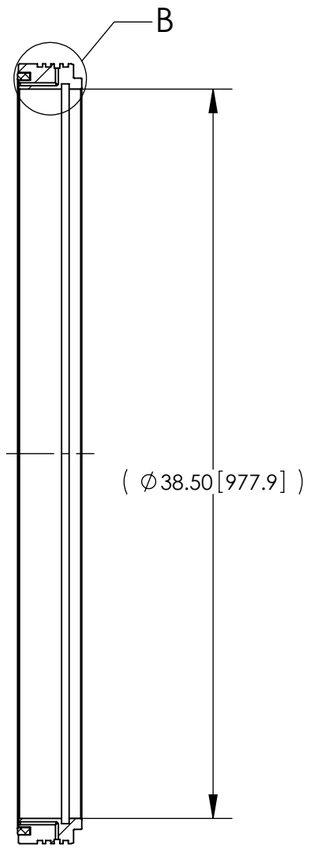
LOC	MARKING DATA
1	TCG4001BR01 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	TCG4001BD01	SEAT
2	1	TCG4001BJ01	SEAT INSERT





DETAIL B
SCALE 1 : 1



SECTION A-A

NOTES:
1. INSERT TO BE PRESSED INTO GROOVE WITH 20,000 LBF. THEN MACHINED AS SHOWN

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	20-DEC-17	RD	JM

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TOLERANCES ARE:
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.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

DRAWN	RD 20-DEC-17
CHECKED	JS 20-DEC-17
APPROVED	JM 20-DEC-17
SHEET 1 OF 1	
WEIGHT:	

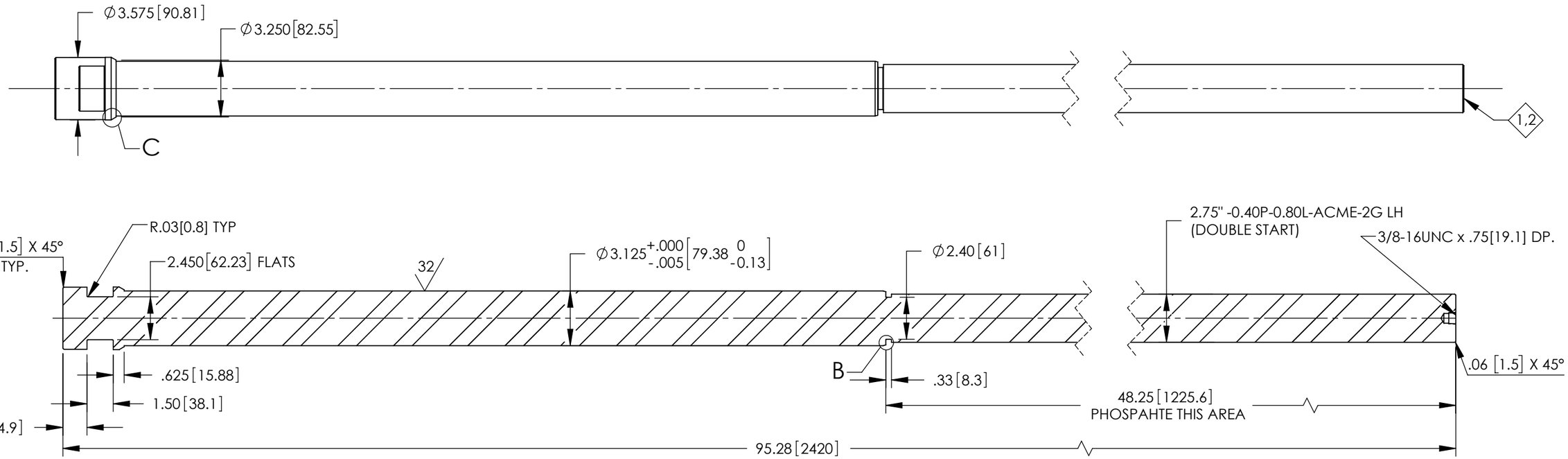
THIRD ANGLE PROJECTION

SCV Valve

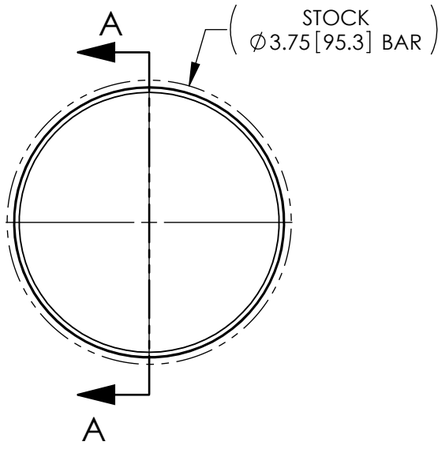
DESCRIPTION
SEAT ASSEMBLY
40" 150#
SLAB GATE VALVE

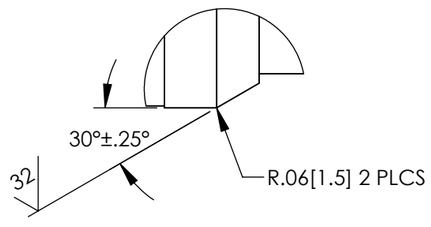
SIZE B | P/N **TCG4001BR01** | REV. 1

LOC	MARKING DATA
1	TCG4001BST1 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.

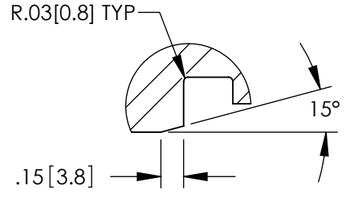


SECTION A-A





DETAIL C
SCALE 1 : 1



DETAIL B
SCALE 1 : 1

WEIGHT= 184 LBS

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	20-DEC-17	JM	CP

REVISION

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SCV VALVE (SCV) ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF SCV IS STRICTLY PROHIBITED.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES [mm]
TOLERANCES ARE:
.X= ±.030 [0.8]
.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

DRAWN	JM 20-DEC-17
CHECKED	JS 20-DEC-17
APPROVED	CP 20-DEC-17
SHEET 1 OF 1	
WEIGHT:	

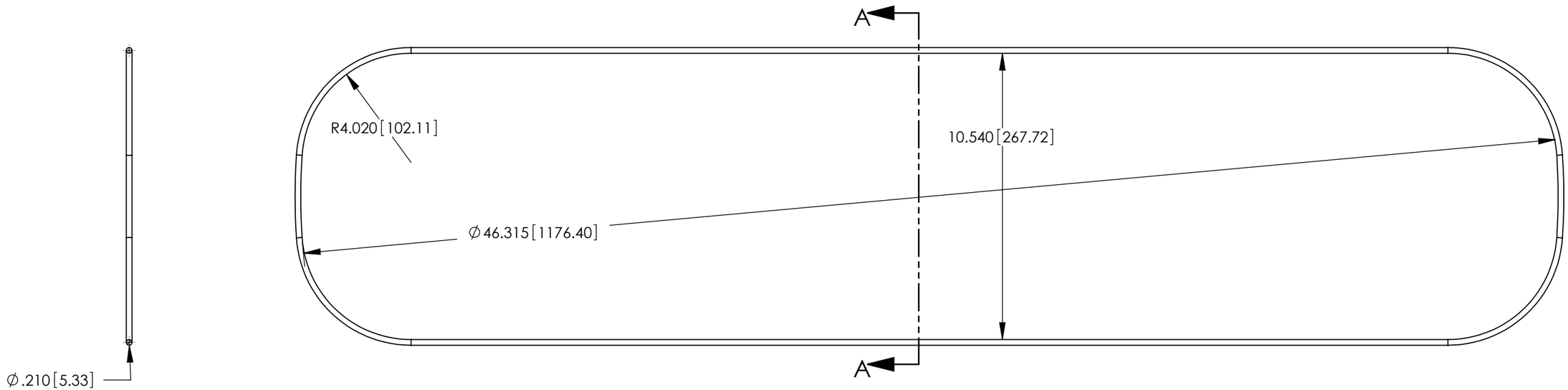
THIRD ANGLE PROJECTION

SCV Valve

DESCRIPTION
STEM
40" 150#
SLAB GATE VALVE

SIZE B | P/N TCG4001BST1 | REV. 1

LOC	MARKING DATA
1	0001-TCG-4001 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.



SECTION A-A

NOTES:
1. MOLD, VULCANIZE or USE ∅ .210"[5.33 mm] CORD 107.3"[2725 mm] ± LONG.

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	20-DEC-17	JM	CP

REVISION

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.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

DRAWN	JM	20-DEC-17
CHECKED	JS	20-DEC-17
APPROVED	CP	20-DEC-17
SHEET 1 OF 1		
WEIGHT:		

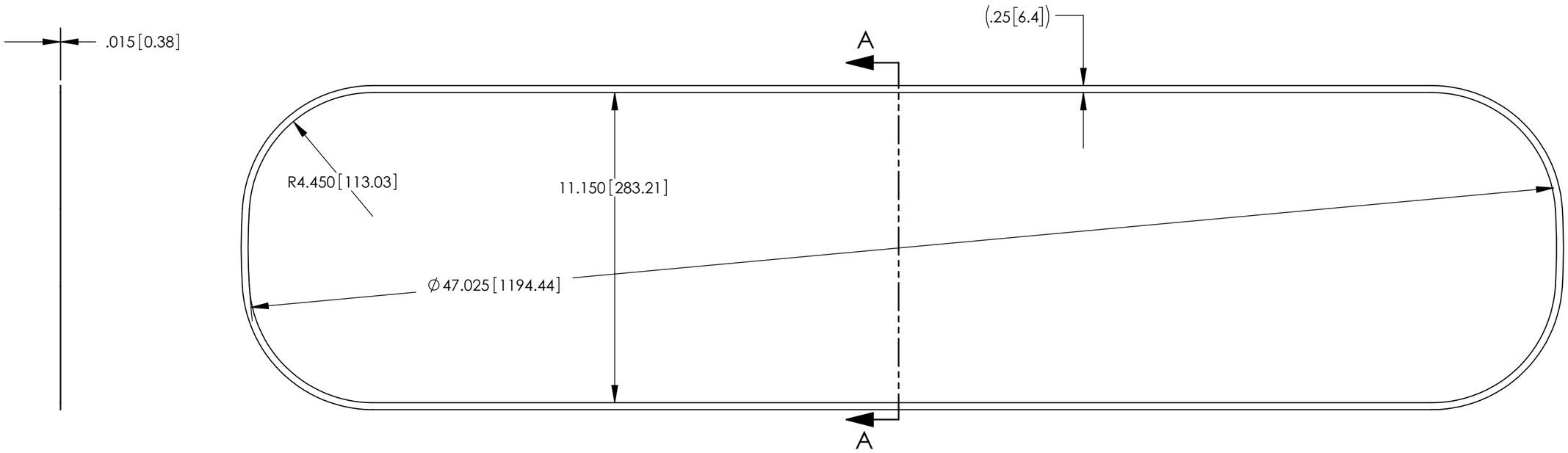
THIRD ANGLE PROJECTION

SCV Valve

DESCRIPTION
40" 150# SLAB GATE
BONNET - O-RING

SIZE B | P/N 0001-TCG-4001 | REV. 1

LOC	MARKING DATA
1	0014-TCG-4001 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.



SECTION A-A

NOTES:
1. 0.015"[0.38 mm] THK. GRAPHOIL TAPE CRINKLED, ADHESIVE BACKED.

1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	20-DEC-17	JM	CP
REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D

REVISION

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.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

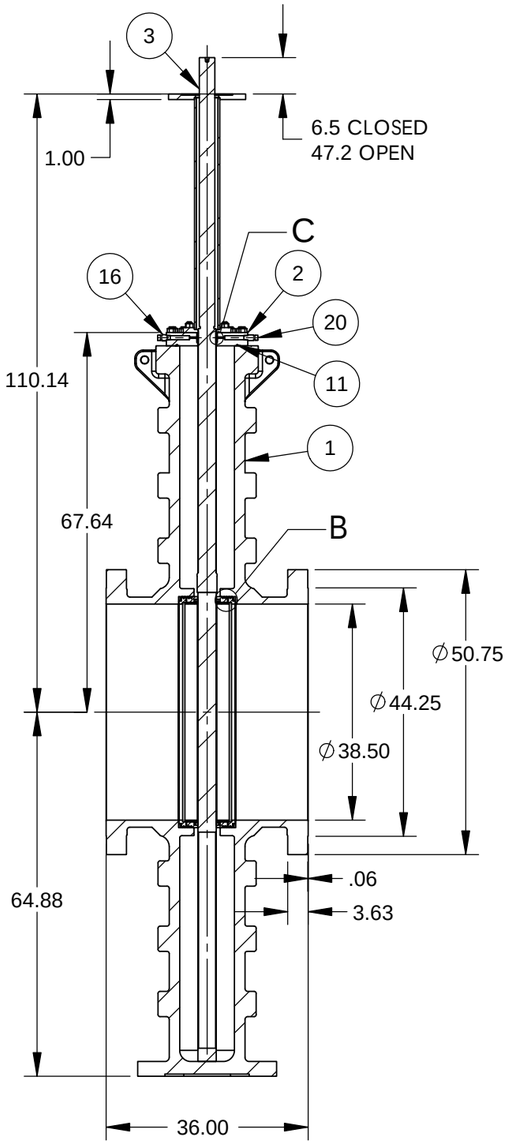
DRAWN	JM	20-DEC-17
CHECKED	JS	20-DEC-17
APPROVED	CP	20-DEC-17
SHEET 1 OF 1		
WEIGHT:		THIRD ANGLE PROJECTION

SCV Valve

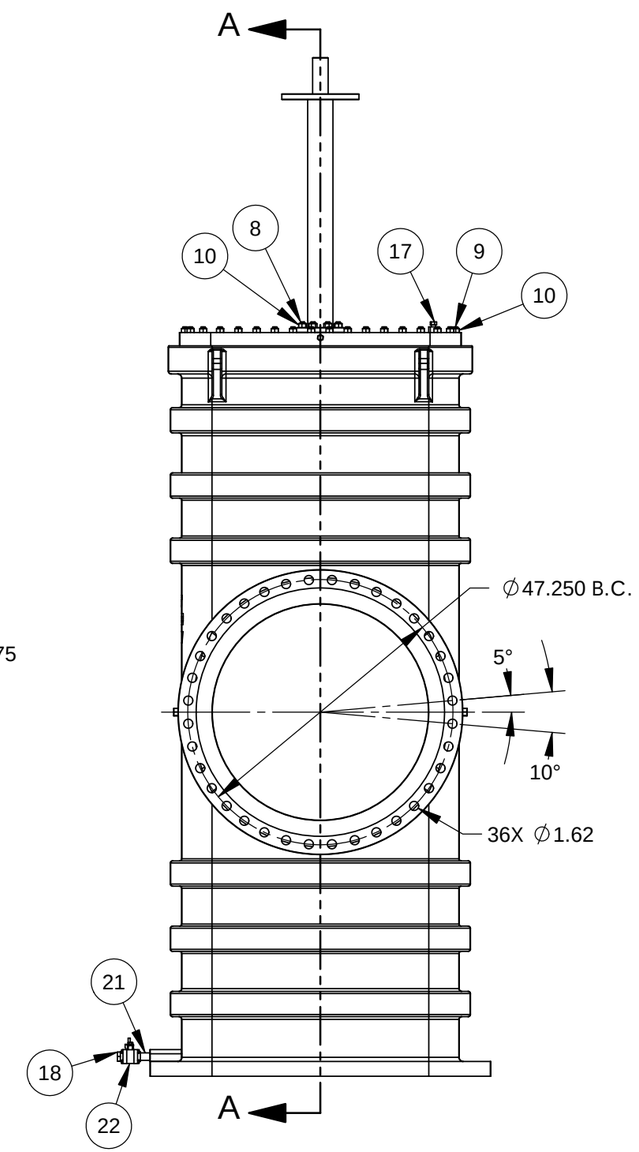
DESCRIPTION
40" 150# SLAB GATE
BONNET - GASKET

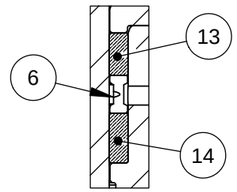
SIZE B | P/N 0014-TCG-4001 | REV. 1

LOC	MARKING DATA
1	TCG4001B001RB REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.

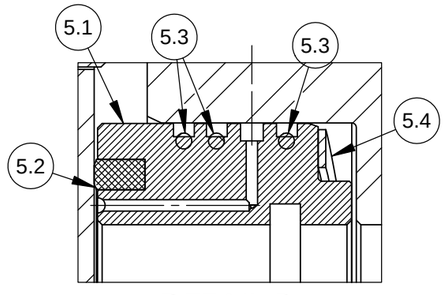


SECTION A-A

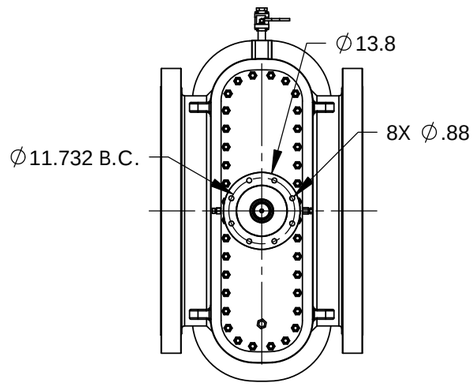




DETAIL C
SCALE 1 : 2



DETAIL B
SCALE 1 : 2



ITEM NO.	QTY.	Rev	PART NUMBER	DESCRIPTION
1	1	1	TCG4001BBR01	BODY
2	1	1	TCG4001BE01	BONNET
3	1	1	TCG4001BST1	STEM
4	1	1	TCG4001BC01	GATE
5	2	1	TCG4001BR01	SEAT ASSY
5.1	1	1	TCG4001BD01	SEAT
5.2	1	1	TCG4001BJ01	SEAT INSERT
5.3	3		0001-3-4050	O-RING
5.4	1		TCG4001SS-WS	WAVESPRING
6	1	1	TCG4001BL01	LANTERN RING
7	1	2	TCG4001BA01	YOKE WELDMENT
7.1	1	1	TCG4001BA11	YOKE BASE
7.2	1	1	TCG4001BA13	YOKE TUBE
7.3	1	1	TCG4001BA12	YOKE TOP
8	8		0009006-XX-026	STUD
9	36		0009006-XX-042	STUD
10	44		0020075	HVY HEX NUT
11	1	1	0001-TCG-4001	O-RING
12	1	1	0014-TCG-4001	GASKET
13	1	X	0018-031-02-131	PACKING
14	1	X	0018-031-02-141	PACKING
15	4		0028004	GREASE FITTING, GBH
16	1		0029004	VENT FITTING
17	1		0029010	VENT FITTING
18	1		0030-100	NPT PLUG
19	4		0031003	BALL CHECK
20	1		0032004	PKG INJ FITTING
21	1	X	0040-010-030	1" T.O.E. NIPPLE
22	1		0039-XX-010	BALL VALVE

FLANGES PER B16.47 - CLASS 150 SERIES A

WEIGHT = 15466 LBS
THREAD = 2.75"-0.40P-0.80L-ACME-2G LH

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
0	X	RELEASED DRAWING	20-NOV-17	JM	CP

REVISION

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DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
.X= ±.030
.XX= ±.015
.XXX= ±.005
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS FINISH
CONCENTRICITY= ±.002 T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

DRAWN	JM	20-DEC-17
CHECKED	JS	20-DEC-17
APPROVED	CP	20-DEC-17
SHEET 1 OF 1		
WEIGHT:		THIRD ANGLE PROJECTION

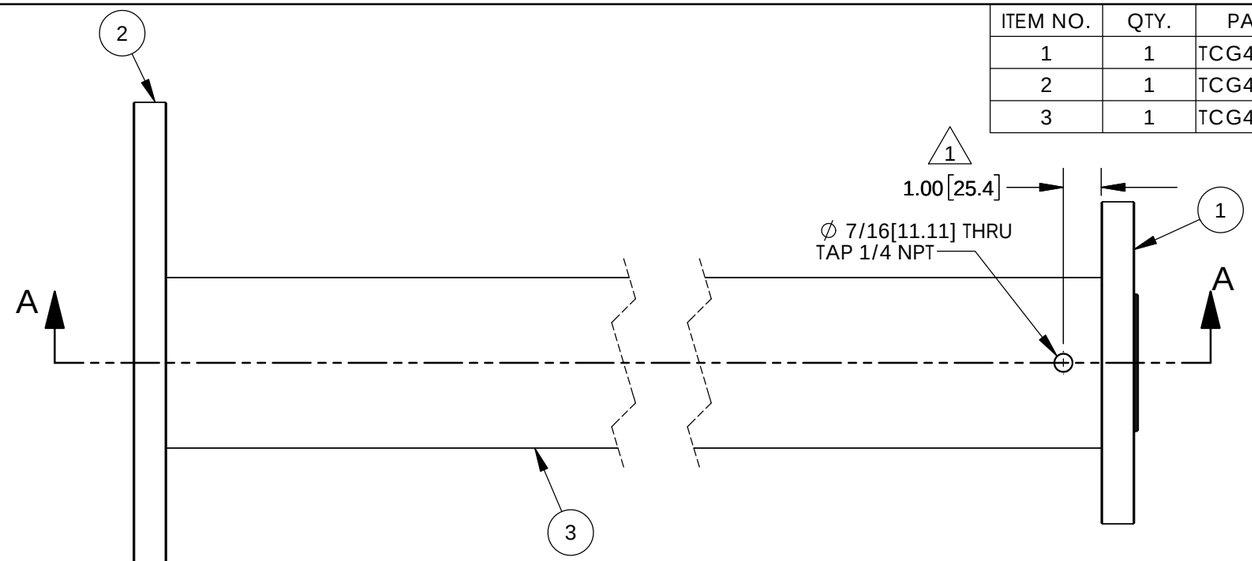
SCV Valve

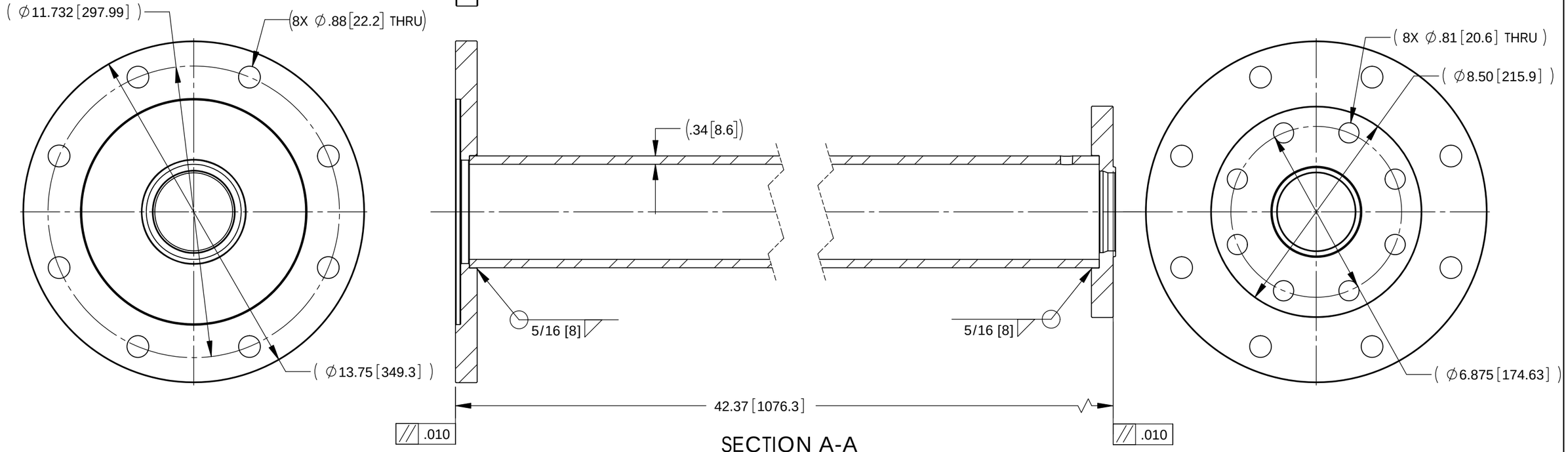
DESCRIPTION
40" 150# RF
SLAB VALVE
ASSEMBLY

SIZE	P/N	REV.
B	TCG4001B001RB	0

LOC	MARKING DATA
1	TCG4001BA01 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION	Revision
1	1	TCG4001BA11	YOKE BASE	1
2	1	TCG4001BA12	YOKE TOP	1
3	1	TCG4001BA13	YOKE TUBE	1





SECTION A-A

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
2	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
1	11304	SEE ECN	06-JUL-18	TM	JM
0	X	RELEASED DRAWING	12/19/2017	JM	CP

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.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

DRAWN	JM 12/19/2017
CHECKED	JS 12/19/2017
APPROVED	CP 12/19/2017
SHEET 1 OF 1	
WEIGHT:	

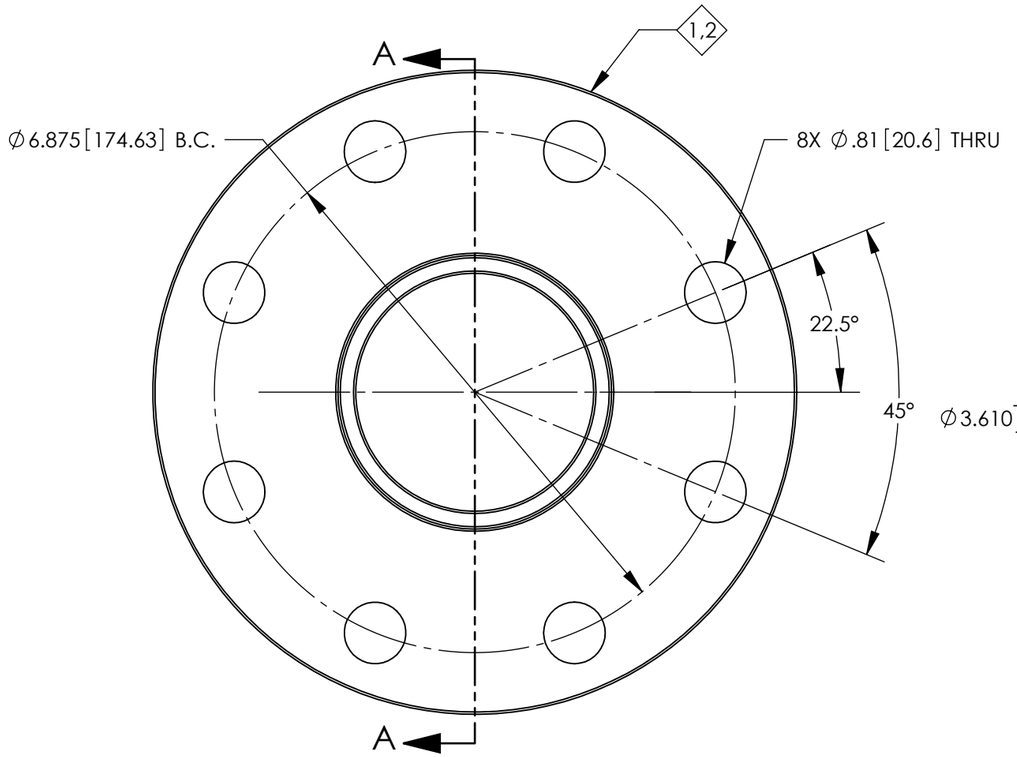
THIRD ANGLE PROJECTION

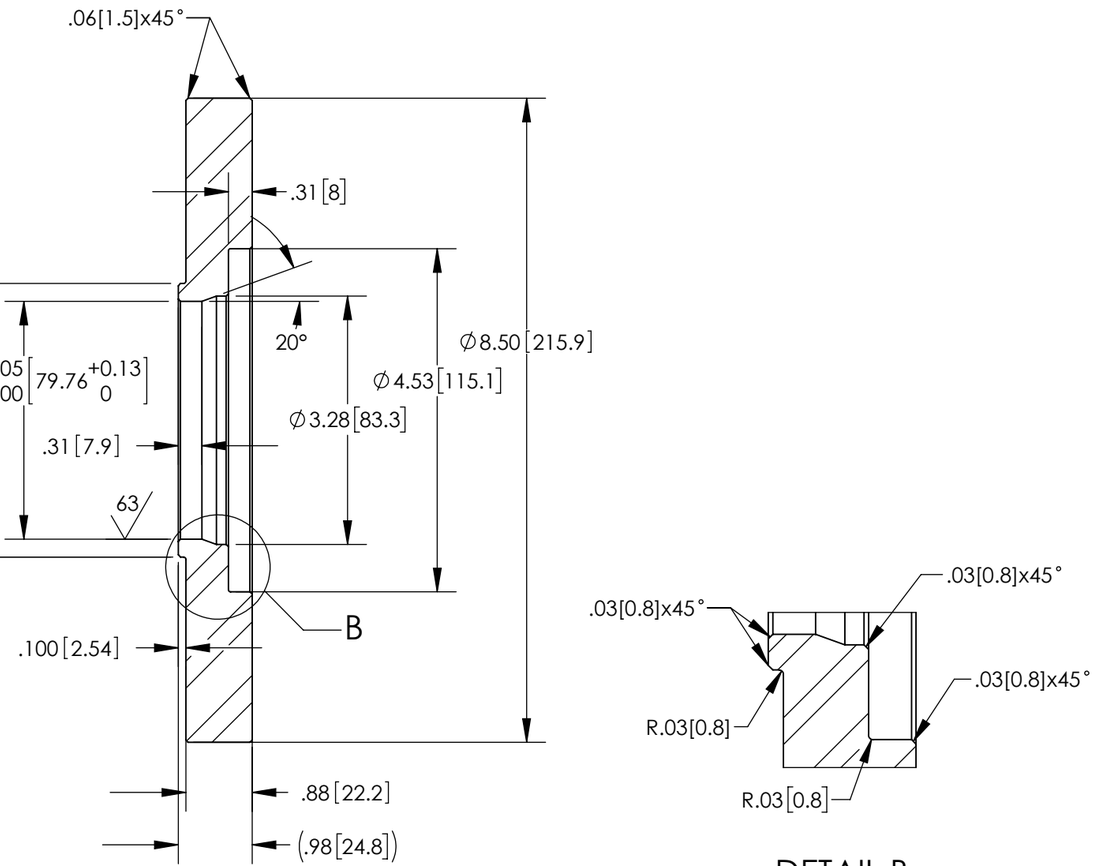
SCV Valve

DESCRIPTION
40" 150#
TCG GATE
YOKE WELDMENT

SIZE B | P/N **TCG4001BA01** | REV. **2**

LOC	MARKING DATA
1	TCG4001BA11 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.





SECTION A-A

DETAIL B
SCALE 1 : 1

REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	20-DEC-17	JM	CP

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.XXX= ±.005 [0.13]
ANGULAR= ±1°
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BREAK ALL SHARP EDGES

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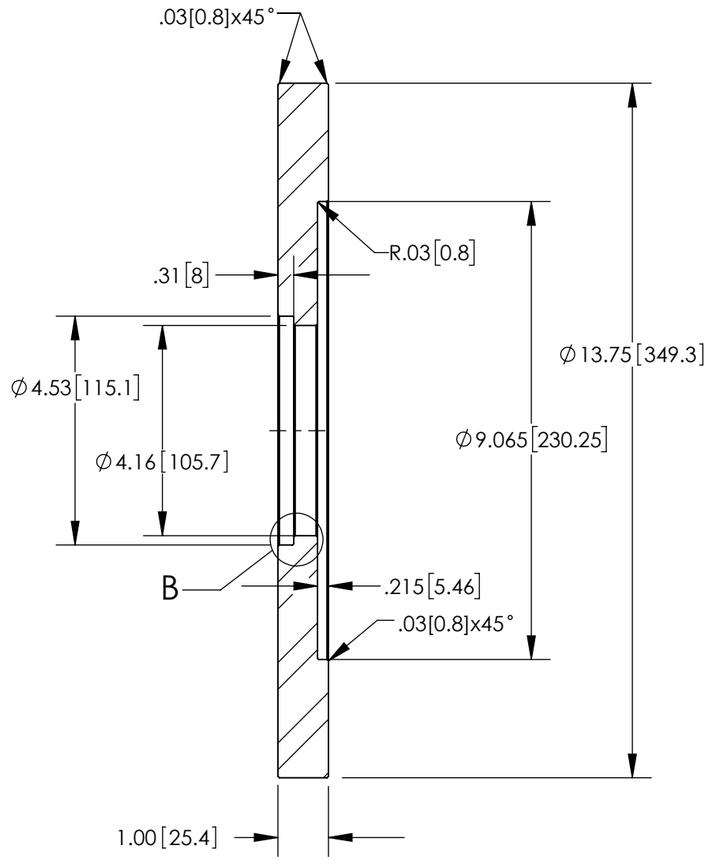
DRAWN	JM	20-DEC-17
CHECKED	JS	20-DEC-17
APPROVED	CP	20-DEC-17
SHEET 1 OF 1		
WEIGHT:		THIRD ANGLE PROJECTION

SCV Valve

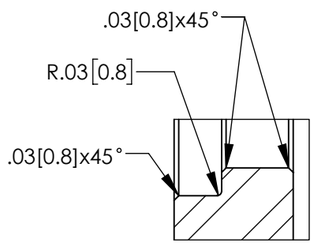
DESCRIPTION
40" 150#
SLAB GATE
YOKE BASE

SIZE B | P/N **TCG4001BA11** | REV. 1

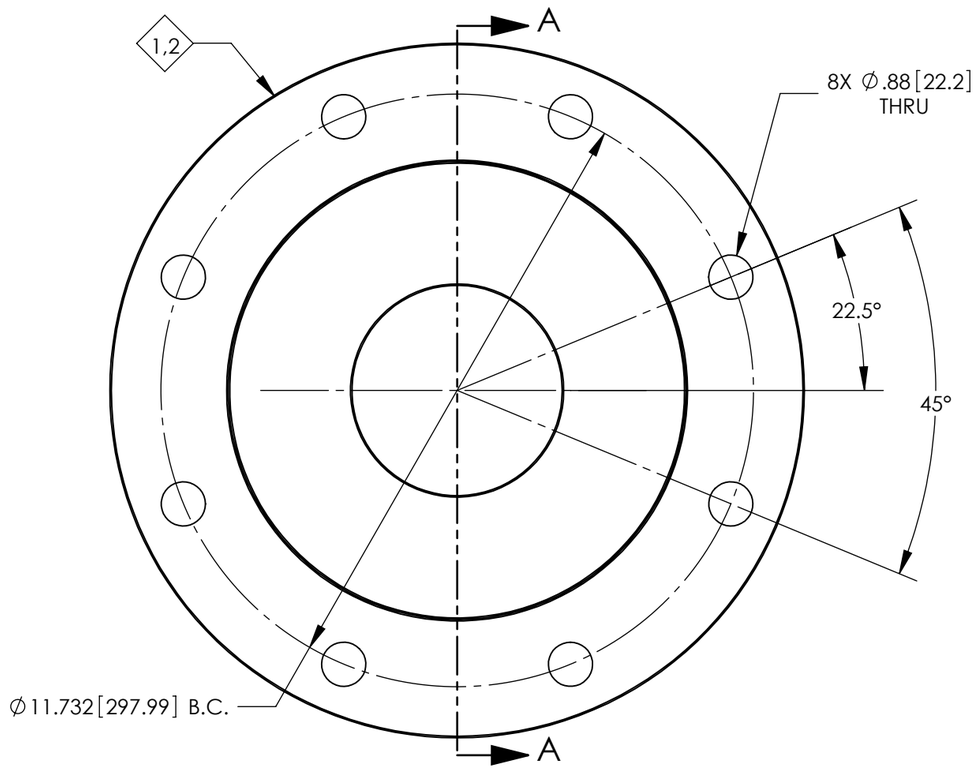
LOC	MARKING DATA
1	TCG4001BA12 REV. LTR, P.O. NUMBER
2	STAMP MATERIAL DESIGNATION AND HEAT NUMBER USING LOW STRESS STAMPS.



SECTION A-A



DETAIL B
SCALE 1 : 1



REV.	ECN/ECR	DESCRIPTION	DATE	BY	APPR'D
1	X	ADDED MM DIMENSIONS	30-OCT-18	HT	JM
0	X	RELEASED DRAWING	20-DEC-17	JM	CP

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.XX= ±.015 [0.4]
.XXX= ±.005 [0.13]
ANGULAR= ±1°
MACHINED SURFACES TO HAVE 125 RMS [3.2um] FINISH
CONCENTRICITY= ±.002 [0.05] T.I.R.
BREAK ALL SHARP EDGES

COPYRIGHTED CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE

DRAWN	JM	20-DEC-17
CHECKED	JS	20-DEC-17
APPROVED	CP	20-DEC-17
SHEET 1 OF 1		
WEIGHT:		

THIRD ANGLE PROJECTION

SCV Valve

DESCRIPTION
40" 150#
TCG GATE
YOKE TOP - FA30

SIZE B | P/N **TCG4001BA12** | REV. 1

345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel.: 416.734.3300
Fax: 416.231.1626
Toll Free: 1.877.682.8772

www.tssa.org

August 6, 2024

SCV VALVE, LLC
3521 FM 646 RD N
SANTA FE TX 77510

Workorder Type: Registration - Fitting(Conventional)
Workorder No: 14099848
Your Reference No.: 2023 CATALOG - REQUEST FOR NEW CRN
Registered to: SCV VALVE, LLC

Dear IAN CHAPA,

Technical Standards and Safety Authority (TSSA) is pleased to inform you that your submission has been reviewed and registered as follows:

CRN : 0C25413.5
Main Design No.: CRN Scope of Registration
Expiry Date: Aug 06, 2034

Please be advised that a valid quality control system must be maintained for the fitting registration to remain valid until the expiry date.

The stamped copy of the approved registration and the invoice are mailed separately (There will be no hard copies for electronic submissions). Should you have any questions or require further assistance, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail customerservices@tssa.org. We will be happy to assist you. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Wendy Du
Engineer, BPV
Tel. : +1 416-734-3566
Email : wdu@tssa.org

Technical Standards and Safety Authority
345 Carlingview Drive
Toronto, Ontario M9W 6N9
www.tssa.org

Show facsimile of manufacturer's logo or trademark, as it will appear on the fitting, in the space below

SCV

STATUTORY DECLARATION
Registration of Fittings

I, Ian Chapa, Quality Control Manager
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of SCV Valve, LLC
(Name of Manufacturer)

Located at 3521 FM 646 Road North, Santa Fe, Texas 77510 (281) 482-4728 (281) 482-9728
(Plant Address) *(Telephone No.)* *(Fax No.)*

☑ do solemnly declare that the fittings listed hereunder, which are subject to the ***Technical Standards and Safety Act***, Boilers and Pressure Vessels Regulation, comply with all of the requirements of
ASME B16.34, ASME BPVC Section VIII, API 6D, API 6A
(Title of recognized North American Standard)
which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service;

☐ or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with _____ as supported by the attached data which identifies the dimensions, material of construction, pressure/temperature ratings and the basis for such ratings, the marking of the fitting for identification and service.

I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of ISO 9001 and API Q1 which has been verified by the following authority, API and ABS Quality Evaluations.
The items covered by this declaration, for which I seek registration, are category gate, check, ball, & plug type fittings. In support of this application, the following information and/or test data are attached as follows:
Catalogues and copies API and National Board Certifications
(drawings, calculations, test reports, etc.)

Declared before me at Santa Fe **in the** State **of** Texas

the 10 **day of** August **AD 20**23.

HARLIE BOURQUE
Notary Public, State of Texas
Comm. Expires 09-03-2024
Notary ID 125100594

Commissioner for Oaths:

Harlie Bourque
(Printed name)

Harlie Bourque
(Signature)

(Signature of Declarer)

FOR OFFICE USE ONLY

To the best of my knowledge and belief, the application meets the requirements of the ***Technical Standards and Safety Act***, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category _____.

CRN: _____

Registered by: _____

Dated: _____

This Document has been digitally signed and approved.
The stamp size has been optimized for 11 x 17 documents.

Technical Standards and Safety Authority

Boilers and Pressure Vessels Safety Program

REGISTERED

C.R.N.: 0C25413.5

Signed: WJ2

Date: August 6, 2024.

NOTE: This registration expires on: Aug. 06, 2034

ASME B16.34 Valves - See CRN Scope of Registration

**Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request.*

PV 09553 (04/17)

CRN Scope of Registration

Type	Design	Size	Class	Body Material
Ball	API 6D ASME B16.34	2" - 20", 24" - 30", 36", 42" (Full Port)	ANSI 150, 300, 600	A350 LF2 A182 316, A182 F51 Duplex A105, A105N
		2" - 20", 24", 30" (Full Port)	ANSI 900	
		3" - 20", 24", 30", 36", 42" (Reduced Port)	ANSI 150, 300, 600, 900	
		1", 1.5", 2" - 16" (Full Port)	ANSI 1500	
		3" - 20", 24" (Reduced Port)	ANSI 1500	
		1", 1.5", 2" - 12" (Full Port)	ANSI 2500	
		3" - 12" (Reduced Port)	ANSI 2500	
Through Conduit Gate (Slab, Single Piece Gate)	API 6D ASME B16.34	2" - 20", 24", 28", 30", 32", 36", 40", 42"	ANSI 150	A216 WCC A352 LCC A351 CF8M
		2"- 24", 30", 36", 40"	ANSI 300	
		2" - 24", 30", 36"	ANSI 600	
		2" - 20", 24"	ANSI 900	
		2", 4" - 10"	ANSI 1500	
Expanding Gate Valve (2 Piece Gate)	API 6D ASME B16.34	3" - 24", 30", 32", 36", 40"	ANSI 150	A216 WCC A352 LCC A351 CF8M
		2" - 20", 24", 30", 36", 40", 42"	ANSI 300	
		2" - 30", 36"	ANSI 600	
		2" - 20", 24"	ANSI 900	
		2", 4" - 10"	ANSI 1500	
Full Port Swing Check Valve	API 6D ASME B16.34	2" - 36"	ANSI 150 & 300	A216 WCC A352 LCC A351 CF8M
		2" - 30"	ANSI 600 & 900	
		2" - 24"	ANSI 1500	
		2" - 16"	ANSI 2500	
Piston Check Valve	API 6D ASME B16.34	2" - 24"	ANSI 150	A216 WCC A352 LCC A351 CF8M
		2" - 16"	ANSI 300	
		2" - 24"	ANSI 600	
		2" - 12"	ANSI 900, 1500, 2500	
Lubricated Plug Valve	API 6D ASME B16.34	2" - 12" (Short Pattern)	ANSI 150	A216 WCC A352 LCC A351 CF8M
		2" - 12" (Regular Pattern)	ANSI 150	
		14" - 20", 24", 30", 36" (Venturi Pattern)	ANSI 150	
		2" - 6" (Short Pattern)	ANSI 300	
		6" - 12" (Regular Pattern)	ANSI 300	
		14" - 20", 24", 30", 36" (Venturi Pattern)	ANSI 300	
		2" - 12" (Regular Pattern)	ANSI 600	
		14" - 20", 24" (Venturi Pattern)	ANSI 600	
		2" - 12" (Regular Pattern)	ANSI 900	
		14" - 20", 24" (Venturi Pattern)	ANSI 900	
		2" - 12" (Regular Pattern)	ANSI 1500	
		14" - 18" (Venturi Pattern)	ANSI 1500	
		2" - 12" (Regular Pattern)	ANSI 2500	

1) Within the scope of our registration our valves do meet the requirements of ASME B16.34 para. 6.1.

2) End Dimensions for Butt Weld and Flanged valves meet the requirements of ASME B16.34 para.6.2.

3) SCV Designs do conform to the requirements of ASME B16.34 para.6.4 for valve joints.

THIS IS PART OF CRN
0C25413.5
Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety Program

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:	07 May 2022
Expiration Date:	15 June 2025
Revision Date:	07 May 2022

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.

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