



Quality People. Building Solutions.

Comfort Systems USA (Arkansas), Inc.
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Date: 4/9/2026

Return Request - 4/16/2026

Project: Hot Springs National Park – Rehabilitate Bathhouses – Maurice Bathhouse

Supplier: Comfort Systems USA (Arkansas), Inc.

Manufacturer: Varies

Submittal: Natural Gas Piping (Re-Submittal #1)

Submittal Number: 221023.001

Spec Section: 221023, 2.1

Drawing # and Installation Location: P1.0 through P1.4

ARCHITECT

Strata Architecture
1701 Oak Street, Suite 100
Kansas City, Missouri 64108
(816)474-0900

GENERAL CONTRACTOR

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2345 Grand Blvd, Suite 700
Kansas City, Missouri 64108
(816)708-1110

ENGINEER

IMEG Corp.
1600 Baltimore Street, Suite 300
Kansas City, Missouri 64108
(816)842-8437

MECHANICAL SUBCONTRACTOR

Comfort Systems USA (Arkansas), Inc.
9924 Landers Road
North Little Rock, Arkansas 72117
(501)834-3320

Comments:

CSUSA PROJECT NO.

25-7065

joe@comfortar.com

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No. LittleRock, AR 72117



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Spec Section 221023, 2.1, B.

Piping 2” and Below

Standard Steel Pipe

ASTM A53 TYPE E GRADE B PIPE Submittal Data Sheet



Scope

Covers ~~black and hot dipped galvanized~~ electric-resistance welded Grade B pipe. Pipe is intended for mechanical and pressure applications and is acceptable for ordinary uses in ~~steam, water, gas and air lines~~. Wheatland ASTM A53 is UL Listed and FM Approved, **sizes 1" through 6" nominal**, for use in Fire Sprinkler Pipe Applications. Pipe is suitable for **welding, threading** and grooving. Produced to the latest revision of ASTM A53/53M, Federal Specification WW-P404 and ASME B36.10M.

Manufacture

The weld seam shall be heat treated after welding to a minimum of 1400°F or be otherwise processed in such a manner that no untempered martensite remains.

~~Hot dipped galvanized~~

~~The average weight of zinc coating shall be not less than 1.8 oz. per sq. ft. of surface (inside and outside). When galvanized pipe is bent or otherwise fabricated to a degree which causes zinc coating to stretch or compress beyond the limit of elasticity, some flaking of the coating may occur.~~

Hydrostatic and Nondestructive Electric testing

Hydrostatic inspection test pressures for plain-end pipe are listed in Table X 2.2 of the A53/A53M specification. Test pressures shall be maintained for a minimum of five seconds. Nondestructive electric testing of the weld seam is required on each length of ERW pipe NPS 2 and larger.

Chemical Requirements

Composition, max. %

Carbon .30	Manganese 1.20	Phosphorus .05	Sulfur .045	
Copper .40	Nickel .40	Chromium .40	Molybdenum .15	Vanadium .08

*The combination of these five elements shall not exceed 1.00%.

Tensile Requirements

TENSILE STRENGTH, MIN.	YIELD STRENGTH, MIN.	ELONGATION IN 2"
60,000 psi	35,000 psi	Refer to A53 table x 4.1

Bending Test (Cold)

NPS	DEGREE OF BEND	DIAMETER OF MANDREL
2 and under	90°	12x pipe OD

Flattening Test

As a test for ductility of the weld for pipe 2½" NPS and larger, position the weld at 0° and alternately at 90° to the direction of force and flatten until the OD is ⅓ of the original outside diameter. No cracks shall occur along the inside or outside surface of the weld.

Frequency of Tests

Tensile tests are required on one length of pipe from each lot of 500 lengths or fraction thereof for each size. Refer to A53 specification for frequency of flattening tests.

End Finish

Plain End: NPS 2 and larger, STD and XS weights: ends beveled to angle of 30°, +5°, -0° with a root face of ⅛" ± ⅙"

Threaded: To ANSI Standard B 1.20.1 **Natural Gas 2" and Below to be Threaded**
Couplings: To ASTM Standard A 865

Weights and Dimensions Charts

STANDARD (SCH. 40) BLACK PLAIN END

NOMINAL SIZE	OD	NOMINAL WALL	WT./FT.
	in.	in.	lbs.
2"	2.375	.154	3.66
2½"	2.875	.203	5.80
3"	3.500	.216	7.58
4"	4.500	.237	10.88
5"	5.563	.258	14.63
6"	6.625	.280	18.99
8"	8.625	.322	28.58

EXTRA STRONG (SCH. 80) BLACK PLAIN END

NOMINAL SIZE	OD	NOMINAL WALL	WT./FT.
	in.	in.	lbs.
2"	2.375	.218	5.03
2½"	2.875	.276	7.67
3"	3.500	.300	10.26
4"	4.500	.337	15.00
5"	5.563	.375	20.80

All information contained herein is accurate as known at the time of publication. Wheatland reserves the right to change product specifications without notice and without incurring obligations.

Permissible Variations in Wall Thickness

Minimum wall thickness at any point shall not be more than 12.5% under nominal wall thickness specified.

Permissible Variations in Outside Diameter

Pipe NPS 2 and larger shall not vary more than + 1% from the standard specified.

Permissible Variations in Weight per Foot

Pipe shall not vary more than + 10% from the standard specified.

Product Marking

Each length of pipe is continuously stenciled to show the manufacturer, the grade of pipe (ASTM A53), the kind of pipe E for Electric Resistance Welded, B for Grade B, the size, XS for extra strong, and length. Stencil markings indicate UL Listing and FM Approval for sizes 1" through 6" nominal for use in Fire Sprinkler Pipe Applications. Bar coding is acceptable as a supplementary identification method.

SUBMITTAL INFORMATION

PROJECT:

Maurice Bathhouse

ENGINEER:

IMEG Corp

LOCATIONS:

Natural Gas Piping Above Grade

CONTRACTOR:

Comfort Systems USA (Arkansas), Inc.

SPECIFICATION REFERENCE:

221023, 2.1, B.

COMMENTS:

DATE:

9/8/2025

SYSTEM TYPE:

Natural Gas Above Grade



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Unions (Class ~~150~~, **250**, ~~300~~)

- ☐ **Fig. 459** Class 300 Union
- ☐ **Fig. 551** Class 300 Union
- ☐ **Fig. 552** Class 300 90° Elbow



Fig. 459

Fig. 551

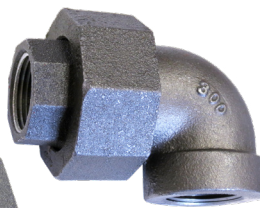


Fig. 552



ASC Engineered Solutions™ offers the broadest line of malleable iron fitting sizes in both black and galvanized finishes. Every fitting is manufactured and tested to meet ASC's strict quality standards. All Anvil Class ~~150/300~~ Malleable Iron Fittings conform to ASME B16.3 and unions conform to ASME B16.39. All elbows and tees $\frac{3}{8}$ " (10 DN) and larger are 100% gas tested at a minimum of 100 PSI (6.9 bar).

For Listings/Approval Details and Limitations, visit our website at www.asc-es.com or contact an ASC Engineered Solutions™ Representative.

See following page for standards and specifications.

Anvil Class ~~150/300~~ Malleable Iron Fittings conform to ASME B16.3 and Unions conform to ASME B16.39.

All elbows and tees $\frac{3}{8}$ " (10 DN) and larger are 100% gas tested at a minimum of 100 PSI (6.9 bar).

Malleable Iron Threaded Pipe Unions Pressure - Temperature Ratings

Temperature	Pressure		
	~~Class 150~~	~~Class 250~~	~~Class 300~~
	PSI/bar	PSI/bar	PSI/bar
-20°–150° -28.9°–65.6°	300 20.7	500 34.5	600 41.4
200° 93.3°	265 18.3	455 31.4	550 37.9
250° 121.1°	225 15.5	405 27.9	505 34.8
300° 148.9°	185 12.8	360 24.8	460 31.7
350° 176.7°	150 10.3	315 21.7	415 28.6
400° 204.4°	110 7.6	270 18.6	370 25.5
450° 232.2°	75 5.2	225 15.5	325 22.4
500° 260.0°	—	180 12.4	280 19.3
550° 287.8°	—	130 9.0	230 15.9

Malleable Iron Threaded Fittings Pressure - Temperature Ratings

Temperature	Pressure			
	~~Class 150~~	~~Class 300~~		
	PSI/bar	Sizes $\frac{1}{4}$ "–1" (6–25mm)	Sizes 1 $\frac{1}{4}$ "–2" (32–51mm)	Sizes 2 $\frac{1}{2}$ "–3" (64–76mm)
	PSI/bar	PSI/bar	PSI/bar	PSI/bar
-20°–150° -28.9°–65.6°	300 20.7	2000 137.9	1500 103.4	1000 68.9
200° 93.3°	265 18.3	1785 123.1	1350 93.1	910 62.7
250° 121.1°	225 15.5	1575 108.6	1200 82.7	825 56.9
300° 148.9°	185 12.8	1360 93.8	1050 72.4	735 50.7
350° 176.7°	150 10.3	1150 79.3	900 62.1	650 44.8
400° 204.4°	—	935 64.5	750 51.7	560 38.6
450° 232.2°	—	725 50.0	600 41.4	475 32.8
500° 260°	—	510 35.2	450 31.0	385 26.5
550° 287.8°	—	300 20.7	300 20.7	300 20.7

Note:

Unions with Copper or Copper Alloy seats are not intended for use where temperature exceeds 450°F.



PROJECT INFORMATION	APPROVAL STAMP
Project: Maurice Bathhouse	☐ Approved
Address: 369 Central Ave, Hot Springs, Arkansas 71901	☐ Approved as noted
Contractor: Comfort Systems USA (Arkansas), Inc.	☐ Not approved
Engineer: IMEG Corp	Remarks:
Submittal Date: 9/8/2025	
Notes 1:	
Notes 2:	



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LittleRock, AR 72231

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Fax 501-834-5416

Spec Section 221023, 2.1, C.

Piping 2-1/2" and Above

Standard Steel Pipe

ASTM A53 TYPE E GRADE B PIPE Submittal Data Sheet



Scope

Covers ~~black and hot dipped galvanized~~ electric-resistance welded Grade B pipe. Pipe is intended for mechanical and pressure applications and is acceptable for ordinary uses in ~~steam, water, gas and air lines~~. Wheatland ASTM A53 is UL Listed and FM Approved, sizes 1" through 6" nominal, for use in Fire Sprinkler Pipe Applications. Pipe is suitable for welding, threading and grooving. Produced to the latest revision of ASTM A53/53M, Federal Specification WW-P404 and ASME B36.10M.

Manufacture

The weld seam shall be heat treated after welding to a minimum of 1400°F or be otherwise processed in such a manner that no untempered martensite remains.

Hot dipped galvanized

~~The average weight of zinc coating shall be not less than 1.8 oz. per sq. ft. of surface (inside and outside). When galvanized pipe is bent or otherwise fabricated to a degree which causes zinc coating to stretch or compress beyond the limit of elasticity, some flaking of the coating may occur.~~

Hydrostatic and Nondestructive Electric testing

Hydrostatic inspection test pressures for plain-end pipe are listed in Table X 2.2 of the A53/A53M specification. Test pressures shall be maintained for a minimum of five seconds. Nondestructive electric testing of the weld seam is required on each length of ERW pipe NPS 2 and larger.

Chemical Requirements

Composition, max. %

<u>Carbon</u> .30	<u>Manganese</u> 1.20	<u>Phosphorus</u> .05	<u>Sulfur</u> .045	
<u>Copper</u> .40	<u>Nickel</u> .40	<u>Chromium</u> .40	<u>Molybdenum</u> .15	<u>Vanadium</u> .08

*The combination of these five elements shall not exceed 1.00%.

Tensile Requirements

TENSILE STRENGTH, MIN.	YIELD STRENGTH, MIN.	ELONGATION IN 2"
60,000 psi	35,000 psi	Refer to A53 table x 4.1

Bending Test (Cold)

NPS	DEGREE OF BEND	DIAMETER OF MANDREL
2 and under	90°	12x pipe OD

Flattening Test

As a test for ductility of the weld for pipe 2½" NPS and larger, position the weld at 0° and alternately at 90° to the direction of force and flatten until the OD is ⅔ of the original outside diameter. No cracks shall occur along the inside or outside surface of the weld.

Frequency of Tests

Tensile tests are required on one length of pipe from each lot of 500 lengths or fraction thereof for each size. Refer to A53 specification for frequency of flattening tests.

End Finish

Plain End: NPS 2 and larger, STD and XS weights: ends beveled to angle of 30°, +5°, -0° with a root face of ⅛" ± ⅙"

Threaded: To ANSI Standard B 1.20.1

Natural Gas 2-1/2" and Above to be Welded

Couplings: To ASTM Standard A 865

Weights and Dimensions Charts

STANDARD (SCH. 40) BLACK PLAIN END

NOMINAL SIZE	OD	NOMINAL WALL	WT./FT.
	in.	in.	lbs.
2"	2.375	.154	3.66
2½"	2.875	.203	5.80
3"	3.500	.216	7.58
4"	4.500	.237	10.88
5"	5.563	.258	14.63
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Minimum wall thickness at any point shall not be more than 12.5% under nominal wall thickness specified.

Permissible Variations in Outside Diameter

Pipe NPS 2 and larger shall not vary more than + 1% from the standard specified.

Permissible Variations in Weight per Foot

Pipe shall not vary more than + 10% from the standard specified.

Product Marking

Each length of pipe is continuously stenciled to show the manufacturer, the grade of pipe (ASTM A53), the kind of pipe E for Electric Resistance Welded, B for Grade B, the size, XS for extra strong, and length. Stencil markings indicate UL Listing and FM Approval for sizes 1" through 6" nominal for use in Fire Sprinkler Pipe Applications. Bar coding is acceptable as a supplementary identification method.

SUBMITTAL INFORMATION

PROJECT:

Maurice Bathhouse

ENGINEER:

IMEG Corp

LOCATIONS:

Natural Gas Piping Above Grade

CONTRACTOR:

Comfort Systems USA (Arkansas), Inc.

SPECIFICATION REFERENCE:

221023, 2.1, C.

COMMENTS:

DATE:

9/8/2025

SYSTEM TYPE:

Natural Gas Above Grade



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WST-050625



Even with all the advances in technology today, the wholly welded piping system has for decades remained the best choice for use in high pressure and high temperature application. Many piping jobs in schools, industrial plants, refineries and factories have benefited from the inherent advantages of a completely welded system. It becomes a closed container joining pipes, valves, fittings, and flanges. A welded joint actually becomes part of the pipe, minimizing leak potential. This provides greater margins of safety, especially under conditions of high internal pressures. Additionally, welding fittings form a continuous metal structure with the pipe, adding forged-in strength to any piping system. Furthermore, smooth forged fittings simplify insulation and take up less space.

ASTM A 234

Scope

This standard covers wrought carbon steel fittings of seamless and welded construction which are manufactured to the dimensional specifications of ASME B16.9 and B16.28. These fittings are primarily for use in pressure piping and in pressure vessel fabrication for service at moderate and elevated temperatures.

Materials

The starting material for fittings shall consist of killed steel, forgings, bars, plates, seamless or fusion-welded tubular products with filler metal added and shall conform to the the chemical requirements of ASTM A 234. Unless otherwise specified, carbon steel plates may be either coarse grain or fine grain practice.

Manufacture

Forging or shaping operations are performed by hammering, pressing, piercing, extruding, upsetting, rolling, bending, machining, or by a combination of two or more of these operations. The forming process shall be applied so that it will not produce injurious imperfections in the fittings.

Heat Treatment

Hot-formed WPB fittings, upon which the final forming operation is completed at a temperature above 1150°F and below 1800°F, need not be heat treated.

Cold-Formed WPB fittings, upon which the final forming operation is completed at a temperature below 1150°F, shall be normalized, or shall be stress relieved at 1100°F to 1275°F.

Fitting Summary Data Sheet

Chemical requirements (in %):

Carbon	Manganese	Phosphorus (max)	Sulfur (max)
.30 max	.29-1.06	.050	.058

Silicon	Chromium	Molybdenum	Nickel	Copper
.10 min	.40 max	.15 max	.40 max	.40 max

Vanadium	Columbium
.08 max	.02 max

Mechanical requirements:

Tensile Strength	60,000-85,000 psi
Yield Strength (min)	35,000 psi
Elongation	- Longitudinal: 22%
	- Transverse: 14%

Dimensions

Butt-welding fittings and butt-welding short radius elbows and returns purchased in accordance with this specification shall conform to the dimensions and tolerances given in the latest revision of ANSI B16.9 and B16.28, respectively.

Certification

When requested by the purchaser, the manufacturer shall provide a certificate of compliance to this specification.

If requested to provide test reports, the manufacturer shall also provide the following where applicable:

- * Chemical analysis results. When the amount of an element is less than .02%, the analysis for that element is reported as "<0.02%."
- * Tensile property results, report the yield strength and ultimate strength in ksi [or MPa] and elongation in percent,
- * Hardness acceptable in accordance with Section 10 of ASTM A-234,
- * Seamless or Welded,
- * Type of Heat Treatment, if any,
- * Starting material, specifically pipe, plate, etc.,
- * Statement regarding radiographic or ultrasonic examination.
- * Any supplemental testing required by the purchase order.

Product Marking

All fittings shall have the prescribed information stamped or otherwise suitable marked on each fitting in accordance with ASTM A 234/MSS SP-25. A Weldbend fitting is marked as follows:
Weldbend's Name, Nominal Pipe Size, Pipe Wall Thickness Designation, Material Grade (WPB/WPC) and Heat Identification Number.

Note: All information contained in this document, and for a complete description of all requirements, refer to ASTM A 105. Sheets are subject to change without notice.



Even with all the advances in technology today, the wholly welded piping system has for decades remained the best choice for use in high pressure and high temperature application. Many piping jobs in schools, industrial plants, refineries, and factories have benefited from the inherent advantages of a completely welded system. It becomes a closed container joining pipes, valves, fittings, and flanges. A welded joint actually becomes part of the pipe, minimizing leak potential. This provides greater margins of safety, especially under conditions of high internal pressures. Additionally, welding fittings form a continuous metal structure with the pipe, adding forged-in strength to any piping system. Furthermore, smooth forged flanges simplify insulation and take up less space.

ASTM A 105 Note: See statement from manufacturer's rep regarding ASTM 181. (Next Page)

Scope

This standard covers forged carbon steel piping components for ambient- and higher-temperature service in pressure systems. Flanges are ordered either to dimensions specified by the purchaser or to dimensional specifications such as ASME 16.5 and API 6A. Forgings made to ASTM A 105 are normally limited to a maximum weight of 10,000 lb.

Materials

Weldbend flanges are made by hammering, pressing, rolling and/or machining cast or forged bars, billets or slabs. These adhere to the extent described in the following sections.

Manufacture

ASTM A 105 covers the requirements for forged steel components as finished products only.

The requirements for raw materials are covered by the standards specified in Section 2: Referenced Documents of ASTM A 105.

Heat Treatment

Heat treatment is not a mandatory requirement of this specification except for the following piping components:

- * Flanges above Class 300,
- * Flanges of special design where the design pressure at the design temperature exceeds the pressure-temperature ratings of Class 300, Group 1.1,
- * Flanges of special design where the design pressure or design temperature is not known.

Heat treatment, when required by the above, shall be annealing, normalizing, normalizing and tempering, or quenching and tempering in accordance with ASTM A 961.

Flange Summary Data Sheet

Chemical requirements (in %):

Carbon	Manganese	Phosphorus (max)	Sulfur (max)
.35 max	.60-1.05	.035	.040

Silicon	Copper	Nickel	Chromium
.10-.35	.40 max	.40 max	.30 max

Molybdenum	Vanadium	Columbium
.12 max	.08 max	.02 max

Mechanical requirements:

Tensile Strength (min)	70,000 psi
Yield Strength (min)	36,000 psi
Basic minimum elongation for walls 5/16 in. and over in thickness, strip tests.	30%
Reduction of area (min)	30%
Hardness, HB (max)	187

Dimensions

Weldbend flanges are manufactured in accordance with ASME B 16.5 (24" NPS and smaller) and ASME B 16.47 (26" - 60" NPS).

Certification

For forgings made to specified dimensions agreed upon by the purchaser, and for forgings made to dimensional standards, the application of identification marks, as required by ASTM A 961, shall be the certification that the forgings have been furnished in accordance with the requirements of this standard. The specification designation included on test reports shall include the year of issue and revision letter, if any.

Test Reports: When test reports are required, Weldbend will also provide the following, if applicable:

- *Type of heat treatment,
- *Tensile property results, i.e., yield strength and ultimate strength in ksi, elongation and reduction in area, in percent,
- *Chemical analysis results,
- *Hardness results, and,
- *Any supplementary testing required by the purchase order.

Product Marking

All flanges shall have the prescribed information stamped or otherwise suitable marked on each flange in accordance with the Standard/MSS SP-25. A Weldbend flange is marked as follows:

Weldbend's Name, Nominal Pipe Size, A105/SA105, Bore Designation, Heat Identification Number and manufacture date.

ASTM 181 is basically a legacy spec at this point. It still exists, but most serious jobs have moved away from it.

Here's the reality:

A181 was written for **low-pressure, general-purpose forgings**. Loose chemistry. Lower strength. Less control.

Modern work favors **ASTM A105**.

Why A181 fell out of favor:

- Lower minimum strength
- Less strict chemistry limits
- Not ideal for pressure boundary confidence
- Doesn't line up well with today's code expectations

Why A105 replaced it:

- Tighter material control
- Better mechanical properties

Designed specifically for **piping components under pressure**



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LittleRock, AR 72231

Phone 501-834-3320

Fax 501-834-5416

Spec Section 221023, 2.1, D, 1.

Shut-Off Valves (2" and Below)

Bronze Ball Valves

Two-Piece Body • Full Port ¼"-1" • Conventional Port 1¼"-3" •
Bronze Trim • Blowout-Proof Stem • UL listed

250 PSI/17.2 Bar Non-Shock LP Gas per UL842

CONFORMS TO MSS SP-110
CSA CERTIFIED TO ANSI/ASME B 16.33
FOR NATURAL AND PROPANE GAS TO 125 PSIG (½"-1")

MATERIAL LIST

PART	SPECIFICATION
1. Handle Nut	Zinc Plated Steel
2. Handle	Zinc Plated Steel Clear Chromate Plastisol Coated
3. Threaded Pack Gland	Brass ASTM B 16 Alloy C36000
4. Packing	PTFE
5. Stem	Silicon Bronze ASTM B 371 Alloy C69300 or ASTM B 99 Alloy C65100
6. Thrust Washer	Reinforced PTFE
7. Ball	Brass ASTM B 124 Alloy C37700 or ASTM B16 Alloy C36000 EACH with Hard Chrome Plate
8. Seat Ring (2)	Reinforced PTFE
9. Body	Bronze ASTM B 584 Alloy C84400
10. Body End Piece	Bronze ASTM B 584 Alloy C84400

UL Listed For:

YSDT LP gas shut-off
YQNZ Compressed gas shut-off
YRPV Gas shut-off
YRBX Flammable liquid shut-off
MHKZ Manual valves

Service

A - Air or non-toxic, non-flammable gas
G - City gas supplied by public utilities
GA - Gasoline
LP - Liquefied petroleum gas, 250 PSI max.
02 - No. 1 and 2 fuel oil
04 - No. 4 fuel oil
05 - No. 5 fuel oil
06 - No. 6 fuel oil

CUL Listed For:

YSDT7 LP gas shut-off for Canada



T-585-70-UL

¼"-1" Full Port CSA
Threaded



T-580-70-UL

1¼"-3" Conventional Port
Threaded
UL Only



DIMENSIONS—WEIGHTS—QUANTITIES

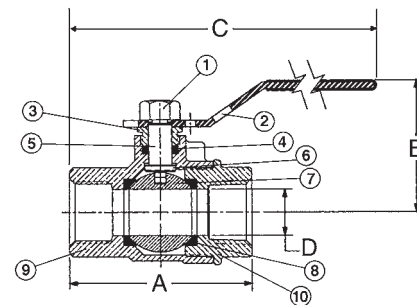
Size	Dimensions										T-585-70-UL		Master Ctn. Qty.
	A		B		C		D		~~T-580-70-UL~~				
	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.			
†¼	8	2.00	51	1.75	44	5.00	127	.38	10	.45	.21	100	
†⅜	10	2.00	51	1.75	44	5.00	127	.38	10	.45	.20	100	
†½	15	2.44	62	1.88	48	5.19	132	.50	13	.64	.29	100	
†¾	20	2.94	75	2.25	57	6.25	159	.75	19	1.33	.60	50	
†1	25	3.34	85	2.38	60	6.44	164	1.00	25	1.79	.81	40	
1¼	32	3.94	100	2.63	67	6.75	171	1.00	25	2.17	.98	20	
1½	40	4.31	109	3.00	76	8.88	226	1.25	32	3.27	1.48	20	
2	50	4.63	118	3.16	80	9.06	230	1.50	38	5.09	2.31	10	
2½	65	5.84	148	3.50	89	9.66	245	2.00	51	8.25	3.74	6	
3	80	7.09	180	4.41	112	11.53	293	2.50	64	15.65	7.10	4	

† NIBCO supplies full port T-585-70-UL on this size.

*NOTE: CSA Certified to ASME B16.33 (1/2" - 1")



WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



T-585-70-UL

T-580-70-UL

NPT x NPT

Visit our website for the most current information.



Quality People. Building Solutions.

Comfort Systems USA (Arkansas), Inc.

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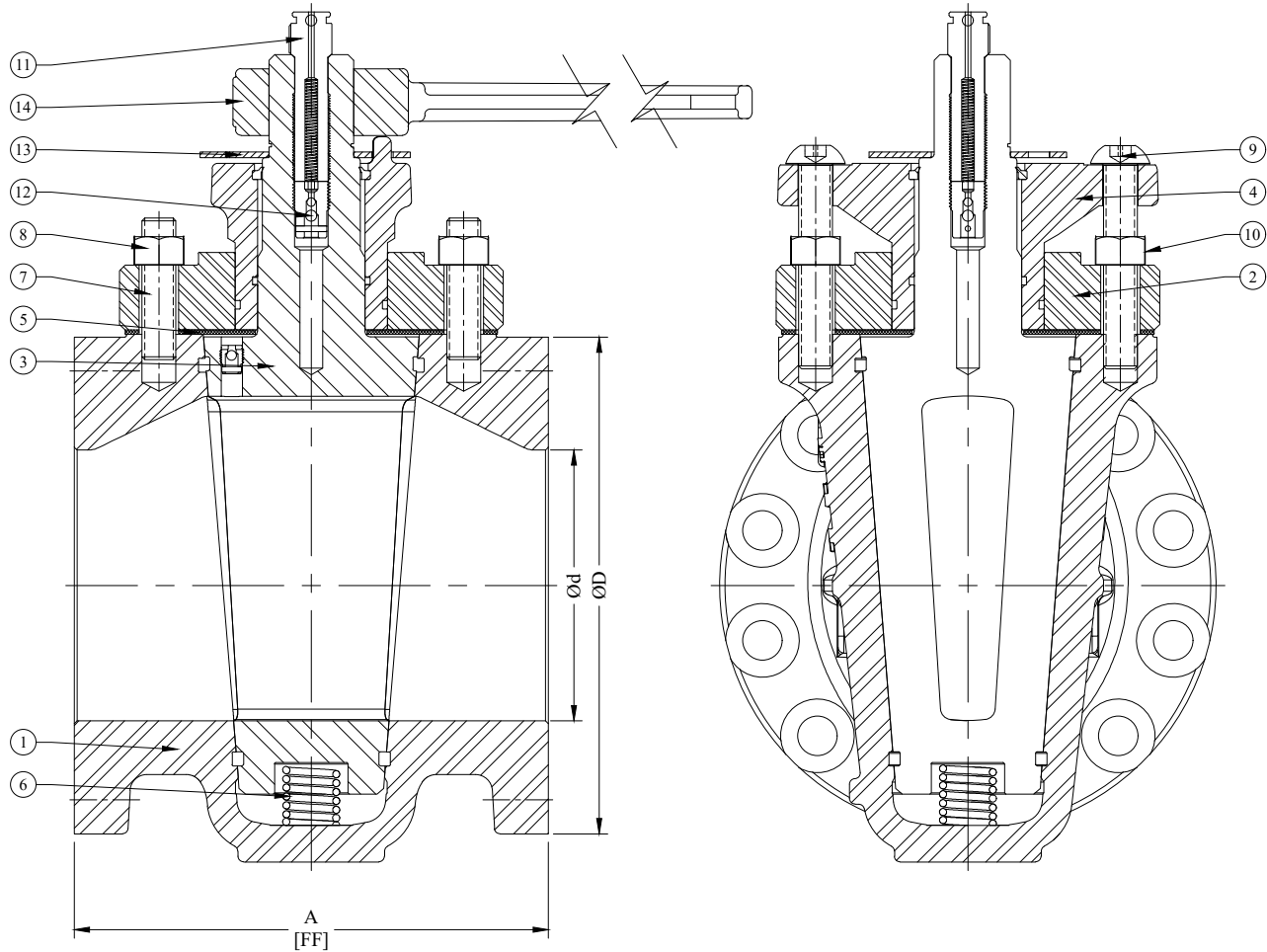
Fax 501-834-5416

Spec Section 221023, 2.1, D, 3.

Shut-Off Valves (2-1/2" and Above)

DIMENSIONS									
ITEM	QTY.	SIZE	CLASS	FIGURE	ENDS	OPERATION	A [± 2] [mm]	Ød [min.] [mm]	ØD [± 2] [mm]
1	1	4"	200 CWP	1700DB	FF	LEVER	305.0	100.0	230.0

BILL OF MATERIALS		
No.	DESCRIPTION	MATERIAL
1	BODY	ASTM A126 CLASS B
2	COVER	ASTM A126 CLASS B
3	PLUG	ASTM A126 CLASS B
4	GLAND	ASTM A126 CLASS B
5	GASKET	STAINLESS STEEL+GRAPHITE
6	SPRING	STAINLESS STEEL 304
7	STUD	ASTM A307 Gr. B7
8	NUT	ASTM A194 Gr. 2H
9	GLAND BOLT	ASTM A307 Gr. B
10	GLAND NUT	ASTM A194 Gr. 2H
11	GREASE FITTING	CARBON STEEL
12	CHECK VALVE	STAINLESS STEEL
13	STOP PLATE	CARBON STEEL
14	LEVER	GRAY IRON
15	O'RING	BUNA M



STANDARDS	
PRESSURE RATING	MSS-SP-78
DESIGN	MSS-SP-78
END DIMENSIONS	ASME B16.1
END TO END	ASME B16.10
TEST	MSS-SP-78 & API-598

-	DATE	DRAWING FOR APPROVAL	
REVISION	DATE	DESCRIPTION	RELEASED BY
CUSTOMER:			
MANUFACTURER: WALWORTH PROJECT ENGINEERING			
EQUIPMENT: CAST IRON PLUG VALVE TOP ENTRY, REGULAR PATTEN CLASS 200 CWP, FLAT FACE ENDS FIG. 1700DB-A126			
FOR "WALWORTH INDUSTRIAL DE VÁLVULAS S.A. DE C.V."		DRAWING NUMBER:	
INITIALS, SIGNATURE AND DATE		PRELIMINARY	
DWN:		SCALE: NO	SHEET 1 OF 1
CHK:		DIMENSIONS IN mm & in	REV. -
ENGR:			