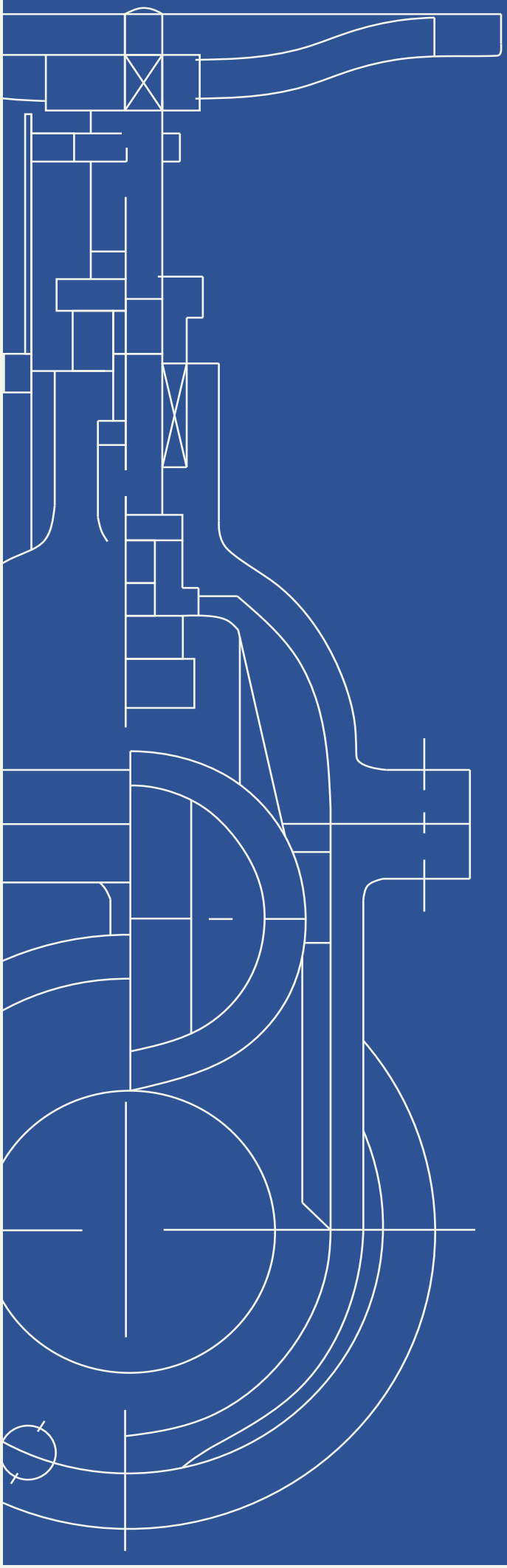


CATALOG

SURINDO JAYA ABADI

Pipeline Specialist

PT . SURINDO JAYA ABADI

Established in 1996, PT. Surindo Jaya Abadi has grown into a trusted partner in the steel and industrial supply sector, specializing in high-performance pipeline solutions across a wide range of industries.

With decades of experience, we support critical infrastructure and industrial projects—including hydrant systems, palm oil processing, petrochemical plants, wastewater treatment, and chiller systems—by delivering reliable materials that meet stringent technical and operational standards.

Our Philosophy

At PT. Surindo Jaya Abadi, we go beyond conventional supply.

We believe that every project demands more than just materials—it requires certainty, reliability, and trust. That is why we are committed to:

Delivering consistent quality without compromise
Ensuring on-time fulfillment for project continuity
Upholding integrity in every transaction
Building long-term partnerships, not just transactions

Core Products & Solutions

We provide a comprehensive range of industrial steel products, including:

Seamless Pipes
Butt Weld Fittings
Forged Flanges & Fittings
Valves
Steel Plates
UNP (U-Channel Steel)
Angle Steel

All products are sourced and supplied to meet recognized industry standards, ensuring durability, safety, and optimal performance in demanding environments.

Connecting Energy, Powering Progress

About Us

PT. SURINDO JAYA ABADI stands as a dependable force in steel supply, delivering high-performance pipeline solutions for hydrant systems, palm oil, petrochemical, wastewater, and chiller projects.

We don’t just supply materials — we deliver certainty. With an uncompromising commitment to quality and integrity, we ensure every product meets the exact demands of your project. We honor our promises, prioritize your needs, and build partnerships that last.

PT. SURINDO JAYA ABADI — Built on trust. Driven by quality.

CONTENTS

01

CHAPTER

PIPE

STEEL PIPE TO AMERICAN STANDARDS

METHODS OF MANUFACTURE - SEAMLESS PIPE

In the seamless pipe making process tube rounds are heated in a furnace, after which they are pierced, than rolled by the mandrel or plug- mill process into pipes and tubes of specified diameters and wall thickness.

Seamless tubular products are generally hot - rolled, but can be also supplied clod - drawn (up to 273mm O.D. (10") when re-quired)

The “Push - Bench process can also be used in the manufac-ture of seamless pipe. In this process, a steel billet is furnace heated to the plastic state and partly punched at one end to take a mandrel. The billet is then forced by the mandrel through a series of gradually reducing dies, until the required outside diameter has been attained, the I.D Being determined by the size of the mandrel.

SPECIFICATIONS

API 5L
ASTM A53
ASTM A106
A120
ASTM A333
ASTM A335

SIZE

UP TO 762 O.D.(30”)

METHODS OF MANUFACTURE - ELECTRIC RESISTANCE WELDED PIPE (E.R.W)

The ERW Manufacturing process is described below :
At the pipe mill the strip is uncoiled , leveled and crop - sheared. It is then trimmed on both sides simultaneously to correct width and immediately fed into the forming and welding line. During the process, the strip is closely checked for surface defects.

A series of cold forming rolls changes the strip progressively into tubular form with abutting edges on top. The longitudinal edges are joined by high frequency electric resistance welding . The weld is thaen heat treated electrically. Special devices remove inside and outside flash from the weld to give uniform wall thick-ness of the pipe. The welded part then is heated - treated by post annealing to ensure adequate ductility at the weld and adjacent zone . The pipe is passed through a series of cold sizing rolls to progressively reducer the diameter to accurate size. This opera-tion also increases strength and improves surface condition.

SPECIFICATIONS

API 5L
ASTM A53
ASTM A120
ASTM A135
ASTM A252
ASTM A333

SIZE

UP TO 610 O.D.(24”)

METHODS OF MANUFACTURE - U.O.E DOUBLE SUBMERGED ARC WELDED PIPE

Steel plates are first U - Shaped then O - formed by a hydraulic press. The seam is welded from inside and outside automatical-ly by the submerged - arc process. Hydraulic expansion gives the pipe prescise diameter and roundness and relieves residual stresses caused by forming and welding

SPECIFICATIONS

API 5L , 5LX & 5LU ASTM
A53

SIZE

UP TO 610 O.D.(24”)

API 5L LINE PIPE

Welded and seamless steel line pipe commonly used to convey gas, water and oil in the petroleum and natural gas industries.

API 5LX HIGH TEST LINE PIPE

Covers welded and seamless steel line pipe having greater tensile and bursting strengths than for pipe manufactured under specifications 5L

ASTM A106

Black seamless (welded not permitted) fully killed carbon steel pipe dor high temperature, high pressure service in three grades of seamless pipe of varying tensile strength.
Although the physical and chemical properties for Grades A and B are compareble to those for A53 pipe, and the types of testing required by both specifications are similar , the tests prescribed for A106 are more stringent and are applied to smaller lots of pipe. Therefore, A106 is preferred for exacting services.

ASTM A53

This pipe can be obtained either black or galvanised, in Seamless and Welded Grades A & B.

Tensile strength, yield - point and elongation requirements of A53 steel pipe are generally similar to the API 5L specification. It is often difficult to procure A53 heavier than extra strong, and A106 pipe is generally stipulated for the heavier wall thickness.

ASTM A335

This specification covers nominal (average) wall seamless steel pipe intended for high temperature service. Twelve grades are listed in ASM A335

ASTM A333

This specification covers nominal (average) wall seamless and welded carbon and alloy steel pipe intended for use at low temperatures. There are seven grades listed in ASTM A333

ASTM A312

Seamless and Welded Austenitic stainless pipe for high and low temperature service. Austenitic stainless steels are usually accepted for service temperatures as low as - 198 C without impact testing.
Grades TP 304 , 304L and 347 are suitable for temperatures as low as -254 C - Refer ASTM 312, ANSI B31.3 and ANSI B16.5

Pipe A106 GR.B / API5L Seamless

Nominal Size		Outside Diam. mm (Inch)	Wall Thick-ness mm	Inside Diam mm	Plain End Mass Kg/m	Identification	
NPS	DN					Standard (STD) X-Strong (XS) XX-Strong (XXS)	Schedule Number
1/2	15	21.3 (0.840)	2.77	15.8	1.27	STD	40
			3.73	13.9	1.62	XS	80
			4.78	11.8	1.95	-	160
			7.47	6.4	2.55	XXS	-
3/4	20	26.7 (1.050)	2.87	20.9	1.69	STD	40
			3.91	18.9	2.20	XS	80
			5.56	15.5	2.90	-	160
			7.82	11.0	3.64	XXS	-
1	25	33.4 (1.315)	3.38	26.6	2.50	STD	40
			4.55	24.3	3.24	XS	80
			6.35	20.7	4.24	-	160
			9.09	15.2	5.45	XXS	-
11/4	32	42.2 (1.660)	3.56	35.1	3.39	STD	40
			4.85	32.5	4.47	XS	80
			6.35	29.5	5.61	-	160
			9.70	22.8	7.77	XXS	-
11/2	40	48.3 (1.900)	3.68	40.9	4.05	STD	40
			5.08	38.1	5.41	XS	80
			7.14	34.0	7.25	-	160
			10.15	27.9	9.56	XXS	-
2	50	60.3 (2.375)	3.91	52.5	5.44	STD	40
			5.54	49.2	7.48	XS	80
			8.74	49.2	11.11	-	160
			11.07	38.2	13.44	XXS	-
21/2	65	73.0 (2.875)	5.16	62.7	8.63	STD	40
			7.01	59.0	11.41	XS	80
			9.53	54.0	14.92	-	160
			14.02	45.0	20.39	XXS	-
3	80	88.9 (3.500)	5.49	77.9	11.29	STD	40
			7.62	73.7	15.27	XS	80
			11.13	66.7	21.35	-	160
			15.24	58.4	27.68	XXS	-
4	100	114.3 (4.500)	6.02	102.3	16.07	STD	40
			8.56	97.2	22.32	XS	80
			11.13	92.1	28.32	-	120
			13.49	87.3	33.54	-	160
5	125	141.3 (1.900)	6.55	128.2	21.77	STD	40
			9.53	122.3	30.97	XS	80
			12.70	115.9	40.28	-	120
			15.88	109.6	49.11	-	160
6	150	168.3 (6.625)	7.11	154.1	28.26	STD	40
			10.97	146.3	42.56	XS	80
			14.27	139.7	54.20	-	120
			18.26	131.8	67.56	-	160
8	200	219.1 (8.625)	8.18	202.7	42.55	STD	40
			12.70	193.7	64.64	XS	80
			18.26	182.6	90.44	-	120
			23.01	173.1	111.27	-	160
10	250	273.1 (10.75)	9.27	254.5	60.31	STD	40
			12.70	247.7	81.55	XS	-
			15.09	242.9	96.01	-	80
			25.40	222.3	155.15	XXS	-
			28.58	215.9	172.33	-	160
12	300	323.9 (12.75)	10.31	303.2	79.73	-	40
			12.70	298.5	97.46	XS	-
			17.48	288.9	132.08	-	80
			25.40	273.1	198.97	XXS	-
			33.32	257.2	238.76	XXS	160
14	350	355.6 (14.00)	11.13	333.3	94.55	-	40
			12.70	330.2	107.39	XS	-
			19.05	317.5	158.10	-	80
			35.71	284.2	281.70	-	160
16	400	406.4 (16.00)	12.70	381.0	123.30	XS	40
			21.44	363.5	203.53	-	80
			40.49	325.4	365.36	-	160
18	450	457 (18.00)	12.70	431.8	139.15	XS	-
			14.27	428.7	155.80	-	40
			23.83	409.5	254.55	-	80
			45.24	366.7	459.37	-	160
20	500	508 (20.00)	12.70	482.6	155.12	XS	-
			15.09	477.8	183.42	-	40
			26.19	455.6	311.17	-	80
			50.01	408.0	564.81	-	160

Weight (Plain end mass) : lbs / ft(top)
Kg / mtr (bottom)

ANSI - B36.19

Unit Weight
Dimension (INCHES)

Nominal pipe size inch/mm	OD inches mm	10	20	30	STD	40	60	XS	80	100	120	140	160	XXS
1/8 6	0.405 10.3		-	- -	1.73 0.37	1.73 0.37		2.41 0.47	0.31 0,47	-	-			
1/4 S	0.540 13.7	-	- -	- -	2.24 0.63	2.24 0.63		3.02 0.80	0.54 0.80	-	- -	- -	- -	
3/8 10	0.675 17.1	- -	- -	- -	2.31 0.84	2.31 0.84		3.20 1.10	0.74 1.10	- -	- -	- -	- -	
1/2 15	0.840 21.3	- -	- -	- -	2.77 1.27	2.77 1.27	-	3.73 1.62	1.09 1.62	- -	- -	- -	1.31 1.95	1.71 2.55
3/4 20	1.050 26.7	- -	- -	- -	2.87 1.69	2.87 1.69		3.91 2.20	1.47 2.20	- -	- -	- -	1.94 2.90	2.44 3.64
1 25	1.315 33.4	- -	- -	- -	3.38 2.50	3.38 2.50		4.55 3.24	2.17 3.24	- -	- -	- -	2.84 4.24	3.66 5.45
1/4 32	1.660 42.2	- -	- -	- -	3.56 3.39	3.56 3.39		4.85 4.47	3.00 4.47	-	- -	- - -	3.76 5.61	5.21 7.77
1 1/2 40	1.900 48.3	- -	- -	- -	3.68 4.05	3.68 4.05		5.08 5.41	3.63 5.41	- -	- -	-	4.86 7.25	6.41 9.56
2 50	2.375 60.3	- -	- -	- -	3.91 5.44	3.91 5.44		5.54 7.48	5.02 7.48	- -	- -	- -	7.46 11.11	9.03 13.44
2 1/2 65	2.875 73.0	- -	- -	- -	5.16 8.63	5.16 8.63		7.01 11.41	7.66 11.41	- -	- -	- - -	10.01 14.92	13.69 20.39
3 80	3.500 88.9	- -		- -	5.49 11.29	5.49 11.29		7.62 15.27	10.25 15.27	- -	- -	- -	14.32 21.35	18.58 27.68
3 1/2 90	4.000 101.6	- -	- -	- -	5.74 13.57	5.74 13.57		8.08 18.63	12.50 18.63	- -	- -	- -	- -	- -
4 100	4.500 114.3	- -	-	- -	6.02 16.07	6.02 16.07		8.56 22.32	14.98 22.32	- -	19.00 28.32	- -	22.51 33.54	27.57 41.03
5 125	5.563 141.3	- -	- -	- -	6.55 21.77	6.55 21.77		9.53 30.97	20.78 30.97	- -	27.04 40.28	- -	32.96 49.11	38.55 57.43
6 150	6.625 168.3	- -	- -	- -	7.11 28.26	7.11 28.26		10.97 42.56	28.57 42.56	- -	36.39 54.20	- -	45.35 67.56	53.16 79.22
8 200	8.625 219.1	- -	6.35 33.31	7.04 36.81	8.18 42.55	8.18 42.55	10.31 53.08	43.39 64.64	43.39 64.64	50.95 75.92	60.71 90.44	67.76 100.92	74.69 111.27	72.42 10792
10 250	10.750 273.1	- -	6.35 41.77	7.80 51.03	9.27 60.31	9.27 60.31	12.70 81.55	54.74 81.55	64.43 96.01	77.03 114.75	89.29 133.06	104.13 155.15	115.64 172.33	104.13 155.15
12 300	12.750 323.9	- -	6.35 49.73	8.38 65.20	9.53 73.88	10.31 79.73	14.27 108.96	65.42 97.46	88.63 132.08	107.32 159.91	125.49 186.75	139.67 208.14	160.27 238.76	125.49 186.97
14 350	14.000 355.6	6.35 54.69	7.92 67.90	9.53 81.33	9.53 81.33	11.13 94.55	15.09 126.71	72.09 107.39	106.13 158.10	130.85 194.96	150.79 224.65	170.21 253.56	189.11 281.70	- -
16 400	16.000 406.4	6.35 62.64	7.92 77.83	9.53 93.27	9.53 93.27	12.70 123.30	16.66 160.12	82.77 123.30	136.61 203.53	164.82 245.56	192.43 286.64	223.64 333.19	245.25 365.35	- -
18 450	406.4 18.000	6.35 70.57	7.92 87.71	11.13 122.38	9.53 105.16	14.27 155.80	19.05 205.74	93.45 139.15	170.92 254.55	207.96 309.62	244.14 363.56	274.22 408.26	308.50 459.37	- -
20 500	20.000 508.2	6.35 78.55	9.53 117.15	12.70 155.12	9.53 117.15	15.09 183.42	20.62 247.83	104.13 155.12	208.87 311.17	256.10 381.53	296.37 441.49	341.09 508.11	379.17 564.81	- -
22 550	22.000 558.8	6.35 86.54	9.53 129.13	12.70 171.09	9.53 129.13	- -	22.23 294.25	114.81 171.09	250.81 373.83	302.88 451.42	353.61 527.02	403.00 600.63	451.06 672.26	- -
24 600	24.000 609.6	6.35 94.53	9.53 141.12	14.27 209.64	9.53 141.12	17.48 255.41	24.61 355.26	278.38 187.06	296.58 442.08	367.39 547.71	428.39 640.03	483.12 720.15	542.13 808.22	- -

Weight (Plain end mass) : lbs / ft(top)
Kg / mtr (bottom)

Pipe SS304 / SS316

Nominal Size		Outside Diam.	SCH 5		SCH 10		SCH 20		SCH 40		SCH 80	
			Thick	Weight	Thick	Weight	Thick	Weight	Thick	Weight	Thick	Weight
NPS	DN	mm	mm	Kg/btg	mm	Kg/btg	mm	Kg/btg	mm	Kg/btg	mm	Kg/btg
1/2	15	21.3	1.65	4.94	2.1	6.18	2.5	7.20	2.8	7.92	3.7	9.96
3/4	20	26.7	1.65	6.36	2.1	7.86	2.5	9.24	2.9	10.56	3.9	13.56
1	25	33.4	1.65	8.04	2.8	13.08	3.0	13.92	3.4	15.54	4.5	19.86
11/4	32	42.2	1.65	10.14	2.8	16.68	3.0	17.88	3.6	21.06	4.9	27.66
11/2	40	48.3	1.65	11.58	2.8	19.14	3.0	20.46	3.7	24.84	5.1	33.18
2	50	60.3	1.65	14.52	2.8	24.12	3.5	29.82	3.9	33.00	5.5	44.76
21/2	65	73.0	2.1	23.28	3.0	32.88	3.5	38.10	5.2	55.26	7.0	72.60
3	80	88.9	2.1	27.30	3.0	38.58	4.0	50.88	5.5	69.00	7.6	92.40
4	100	114.3	2.1	35.22	3.0	49.92	4.0	66.00	6.0	97.20	8.6	135.60
5	125	141.3	2.8	57.36	3.4	69.60	5.0	100.80	6.6	131.40	9.5	184.80
6	150	168.3	2.8	67.80	3.4	82.20	5.0	120.00	7.1	168.00	11.0	253.80
8	200	219.1	2.8	89.40	4.0	127.20	6.6	204.00	8.2	255.00	12.7	386.40
10	250	267.4	3.4	134.40	4.0	157.20	6.5	253.20	9.3	358.80	15.1	569.40
12	300	318.5	4.0	187.80	4.5	211.20	6.5	303.00	10.3	474.60	17.4	786.00

ASTM A53 : 2012 | GRADE A

STANDAR
NASIONAL
INDONESIA

Water pipes ERW

Ukuran	Diameter Dalam Nominal		Diameter Luar	Tebal	Berat Nominal Pipa tanpa Lapis Seng Sebelum Diulir
	mm	Inch	mm	mm	Kg/m
medium	15	1/2	21.4	2.6	1.21
	20	3/4	26.8	2.6	2.6
	25	1	33.6	3.2	2.41
	32	11/4	42.3	3.2	3.10
	40	11/2	48.2	3.2	3.56
	50	2	60.2	3.6	5.03
	65	21/2	76.0	3.6	6.42
	80	3	88.8	4.0	8.36
	100	4	114.1	4.5	12.2
	125	5	139.7	5.0	16.6
	150	6	165.1	5.0	19.8
	200	8	219.1	6.4	33.3
tebal	15	1/2	21.4	3.2	1.44
	20	3/4	26.8	3.2	1.87
	25	1	33.6	4.0	2.94
	32	11/4	42.3	4.0	3.80
	40	11/2	48.2	4.0	4.38
	50	2	60.2	4.5	6.19
	65	21/2	76.0	4.5	7.93
	80	3	88.8	5.0	10.30
	100	4	114.1	6.0	15.99
	125	5	139.7	6.6	21.92
	150	6	165.1	7.1	28.22
	200	8	219.1	8.2	42.65

Tolerance on Wall Thickness : +15% - 10% (MEDIUM)
: +15% - 12.5% (TEBAL)
Standard Length : 6m / btg or 12m / btg

SPINDO

02

CHAPTER

FITTINGS

Fitting to International Standards

SUMMARY OF SPECIFICATION

Carbon steel and forged fittings designed for piping systems in accordance with international standards.
Suitable for use in waterworks, industrial pipelines, and general mechanical applications.
Available in multiple pressure ratings and dimensional standards to ensure compatibility across systems.

Flange Types

A105 (Forged Carbon Steel)

High strength flange material suitable for high pressure and temperature applications.

JIS5K / JIS10K

Japanese Industrial Standards for low to medium pressure piping systems.

ANSI CLASS 150 / 300

American standard flanges designed for varying pressure classes and industrial requirements.

BLIND FLANGE

Used to close pipe ends, ensuring leak-proof sealing and easy maintenance access.

WN (WELD NECK) FLANGE

Designed for high-pressure systems with excellent stress distribution and durability.

PIPE FITTING

ELBOW

Changes flow direction (commonly 45° / 90°).

TEE

Allows branch connection from main pipeline.

REDUCER CONCENTRIC

Reduces pipe size with aligned centerline.

REDUCER ECCENTRIC

Reduces pipe size with offset centerline to prevent air accumulation.

APPLICATION

Water Treatment

Building Services

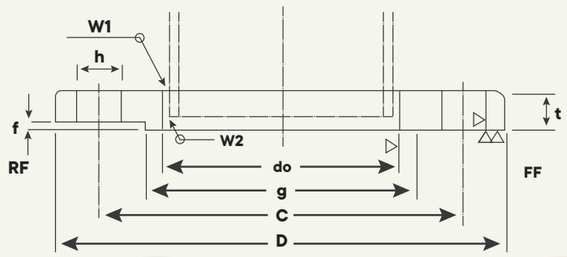
Oil & Gas

Industrial Pipeline

Flange to JIS Standard

JIS5K FF

NOMINAL SIZE 15 - 400mm

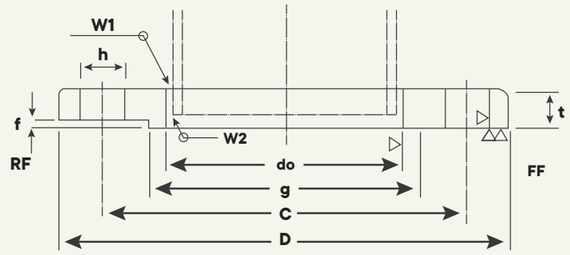


Nom. Dia of Flange	Outside Diam. of Range	Sectional Dimensions of Flange								Nominal Bolt Size	Weld Length (Reference)		Weight
		Bolt Circle Dia. C	Dia of Raised Face G	Inside Dia of flange do	Outside Dia of applica-ble pipe	t	Raised Face f	Hole Dia h	Number of Bolts Holes		W1	W2	Kg/w
15	80	60	44	22.2	21.7	9	1	12	4	M10	5	3	0.3
20	85	65	49	27.7	27.2	10	1	12	4	M10	5	3	0.37
25	95	75	59	34.5	34.0	10	1	12	4	M10	5	3	0.45
32	115	90	70	43.2	42.7	12	2	15	4	M12	6	3	0.78
40	120	95	75	49.1	48.6	12	2	15	4	M12	6	3	0.83
50	130	105	85	61.1	60.5	14	2	15	4	M12	6	3	1.07
65	155	130	110	77.1	76.3	14	2	15	4	M12	6	4	1.49
80	180	145	121	90	89.1	14	2	19	4	M16	6	4	1.99
100	200	165	141	115.4	114.3	16	2	19	8	M16	7	4	2.39
125	235	200	176	141.2	139.8	16	2	19	8	M16	7	4	3.23
150	265	230	206	166.6	165.2	18	2	19	8	M16	7	5	4.41
200	320	280	252	218	216.3	20	2	23	8	M20	8.5	6	6.33
250	385	345	317	269.5	267.4	22	2	23	12	M20	10	6	9.45
300	430	390	360	321	318.5	22	3	23	12	M20	10	6	10.3
350	480	435	403	358.1	355.6	24	3	25	12	M22	12	7	14
400	540	495	463	409	406.4	24	3	25	16	M22	12	7	16.9
450	605	555	523	460	457.2	24	3	25	16	M22	12	7	24.8
500	655	605	573	511	508.0	24	3	25	20	M22	12	7	26.9
550	720	665	630	562	558.8	26	3	27	20	M24	12	7	34.1
600	770	715	680	613	609.6	26	3	27	20	M24	12	7	37.5
650	825	770	735	664	660.4	26	3	27	24	M24	12	7	42.8

1. Flanges of parenthesized nominal diameter had letter not be used
2. The facing of flanges shall conform to KS B1519 (JIS B2202) 1984
3. Nominal diameter over 1000 is manufacturer's standard (*).

JIS10K FF

NOMINAL SIZE 15 - 225mm

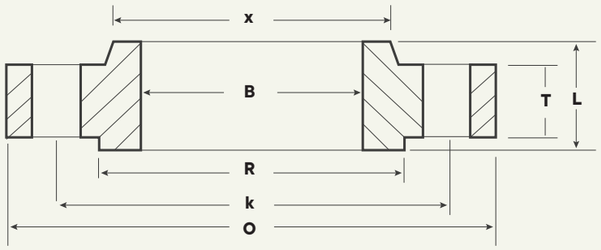


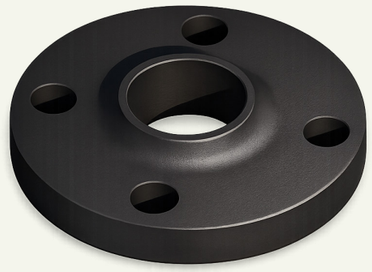
Nom. Dia of Flange	Outside Diam. of Range	Sectional Dimensions of Flange								Nominal Bolt Size	Weld Length (Reference)		Weight
		Bolt Circle Dia. C	Dia of Raised Face G	Inside Dia of flange do	Outside Dia of applica-ble pipe	t	Raised Face f	Hole Dia h	Number of Bolts Holes		W1	W2	Kg/w
15	95	70	51	22.2	21.7	12	1	15	4	M12	5	3	0.57
20	100	75	56	27.7	27.2	14	1	15	4	M12	5	3	0.73
25	125	90	67	34.5	34.0	14	1	19	4	M16	5	3	1.13
32	135	100	76	43.2	42.7	16	2	19	4	M16	6	3	1.48
40	140	105	81	49.1	48.6	16	2	19	4	M16	6	3	1.56
50	155	120	96	61.1	60.5	16	2	19	4	M16	6	3	1.88
65	175	140	116	77.1	76.3	18	2	19	4	M16	6.5	4	2.60
80	185	150	126	90	89.1	18	2	19	8	M16	6.5	4	2.61
100	210	175	151	115.4	114.3	18	2	19	8	M16	7	4	3.14
125	250	210	182	141.2	139.8	20	2	23	8	M20	7.5	4	4.77
150	280	240	212	166.6	165.2	22	2	23	8	M20	8	5	6.34
200	330	290	262	218	216.3	22	2	23	12	M20	9	6	7.53
250	400	355	324	269.5	267.4	24	2	25	12	M22	10	6	12.7
300	445	400	368	321	318.5	24	3	25	16	M22	10	6	13.8
350	490	445	413	358.1	355.6	26	3	25	16	M22	12	7	18.2
400	560	510	475	409	406.4	28	3	27	16	M24	12	7	25.2
450	620	565	530	460	457.2	30	3	27	20	M24	14	8	33
500	675	620	585	511	508.0	30	3	27	20	M24	14	8	37.6
550	745	680	640	562	558.8	32	3	33	20	M30	15	9	49.7
600	795	730	690	613	609.6	32	3	33	24	M30	16	10	52.6
650	845	780	740	664	660.4	34	3	33	24	M30	16	10	60.6

1. Flanges of parenthesized nominal diameter had letter not be used
2. The facing of flanges shall conform to KS B1519 (JIS B2202) 1984
3. Nominal diameter over 1000 is manufacturer's standard (*).

Flange to ANSI Standard

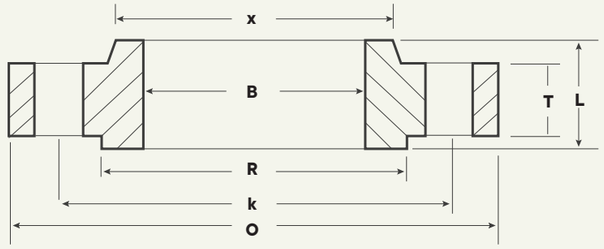
ANSI 150 SORF

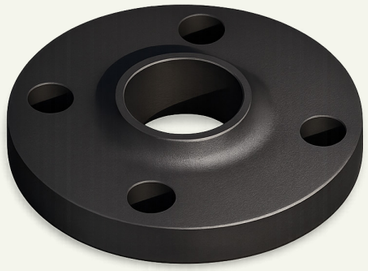




Nom. Dia of Flange	Outside Diam. of Range	Flange				Slip On		Raised Face		Drilling		Weight
		O	B	T	K	L	X	R	F	Bolt No	H	Kg/w
15	1/2"	89	22.3	9.5	60.3	4.8	30.2	35	1.6	4	15.8	0.45
20	3/4"	98.5	27.6	11.2	69.8	3.1	38.2	42.9	1.6	4	15.8	0.57
25	1"	108	34.5	12.7	79.3	3.2	49.2	50.9	1.6	4	15.8	0.78
32	1-1/4"	117.5	43.1	14.3	88.9	4.8	58.8	63.6	1.6	4	15.8	1.05
40	1-1/2"	127.1	49.5	15.9	98.4	4.8	65.1	73.1	1.6	4	15.8	1.33
50	2"	152.5	61.9	17.5	120.6	6.4	77.8	92	1.6	4	19	2.06
65	2-1/2"	177.9	74.6	20.7	139.7	6.4	90.5	104.8	1.6	4	19	3.31
80	3"	190.6	90.6	22.2	152.4	6.4	108	127.1	1.6	4	19	3.90
100	4"	228.7	116	22.2	190.5	9.6	135	157.2	1.6	8	19	5.35
125	5"	254.1	143.7	22.2	215.9	12.7	163.5	185.8	1.6	8	22.2	6.10
150	6"	279.5	170.6	23.9	241.3	14.2	192.1	216	1.6	8	22.2	7.50
200	8"	343	221.4	27	298.4	15.9	246.1	269	1.6	8	22.2	12.17
250	10"	406.5	276.3	28.6	361.9	19	304.9	323.9	1.6	12	25.4	16.61
300	12"	482.7	327.1	30.2	431.8	23.8	365.2	381.1	1.6	12	25.4	26.33
350	14"	533.5	359.1	33.4	476.2	22.2	400.1	412.8	1.6	12	28.5	34.78
400	16"	597	410.4	34.9	539.2	27.1	457.3	470	1.6	16	28.5	45.10
450	18"	635.1	461.7	38.1	577.8	28.6	504.9	533.5	1.6	16	31.7	49.15
500	20"	698.6	513	41.3	635	30.2	558.9	584.5	1.6	20	31.7	62.29
600	22"	749.4	564.3	44.5	692.1	33.3	609.7	641.4	1.6	20	34.9	72.29

ANSI 300 SORF

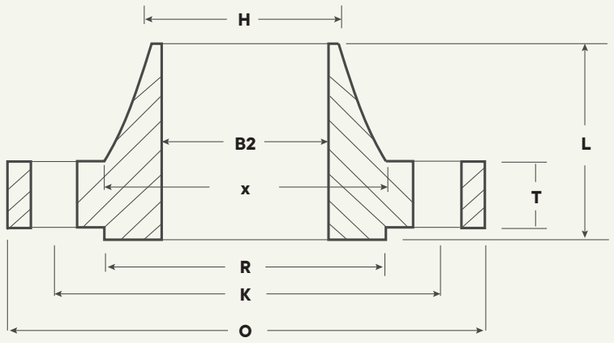




Nom. Dia of Flange	Outside Diam. of Range	Flange				Slip On		Raised Face		Drilling		Weight
		O	B	T	K	L	X	R	F	Bolt No	H	Kg/w
15	1/2"	95.3	22.3	12.5	66.5	20.25	37.5	34.5	1.6	4	15.8	0.7
20	3/4"	117.3	27.6	14	82.6	23.5	47	42.25	1.6	4	19	1.2
25	1"	124	34	15.5	88.9	25	53	50	1.6	4	19	1.4
32	1-1/4"	133.3	42.5	17.25	98.5	25	62.5	62.5	1.6	4	19	1.8
40	1-1/2"	155.4	48.8	18.75	114.3	28.25	68.75	72	1.6	4	22.2	2.7
50	2"	165.1	61	20.25	127	312.5	82.75	90.5	1.6	8	19	3.2
65	2-1/2"	190.5	73.5	23.50	149.7	36	98.5	103	1.6	8	22.2	4.5
80	3"	209.6	89.25	26.50	186.1	40.75	115.5	125	1.6	8	22.2	5.9
100	4"	254	114.25	29.75	200.2	45.5	143.75	154.75	1.6	8	22.2	10
125	5"	279.4	141.5	32.75	235	48.5	175	182.75	1.6	8	22.2	12.5
150	6"	317.5	168	34.50	269.7	50	203	212.5	1.6	12	22.2	16.5
200	8"	381	218	39.00	330.2	59.5	256.25	265.5	1.6	12	25.4	25.5
250	10"	444.5	272	45.25	387.2	64	315.5	318.75	1.6	16	28.4	35
300	12"	520.7	322	48.50	450.9	70.5	368.75	375	1.6	16	31.8	52
350	14"	584.2	353.5	51.25	514.4	73.5	418.75	406.25	1.6	20	31.8	73
400	16"	647.7	404	54.75	571.5	79.75	475	462.5	1.6	20	35.1	88
450	18"	711.2	454.5	57.75	628.6	86	525	525	1.6	24	35.1	115
500	20"	774.7	505	61	685.7	92.25	578	575	1.6	24	35.1	139
600	22"	-	-	-	-	-	-	-	-	-	-	-

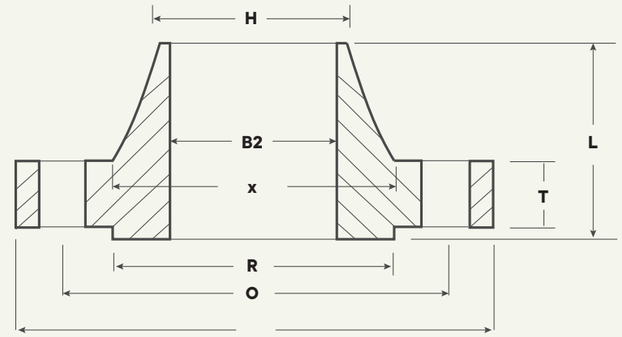
Flange to ANSI Standard

ANSI 150 WN



Nom. Dia of Flange	Outside Diam. of Range	Flange				NECK		Drilling		Weight
		O	B2	T	X	P.C.D K	R	Bolt No	H	Kg/w
15	1/2"	88.90	15.75	11.18	30.23	60.45	35.05	4	15.8	0.45
20	3/4"	98.55	20.9	12.70	38.10	69.85	42.93	4	15.8	0.72
25	1"	107.95	26.7	14.22	49.28	79.25	50.80	4	15.8	1.03
32	1-1/4"	117.5	35.05	15.75	58.67	88.9	63.50	4	15.8	1.34
40	1-1/2"	127.1	40.89	17.53	65.02	98.55	73.15	4	15.8	1.74
50	2"	152.5	52.58	19.05	77.72	120.65	91.95	4	19	2.60
65	2-1/2"	177.9	62.74	22.35	90.42	139.70	104.65	4	19	4.17
80	3"	190.6	77.93	23.88	107.95	152.40	127.00	4	19	4.99
100	4"	228.7	102.26	23.88	134.87	190.50	157.23	8	19	6.98
125	5"	254.1	128.19	23.88	163.58	215.90	185.67	8	22.2	8.72
150	6"	279.5	154.05	25.40	192.02	241.30	215.90	8	22.2	10.74
200	8"	343	202.72	28.45	246.13	298.45	269.75	8	22.2	17.68
250	10"	406.5	254.51	30.23	304.80	361.95	323.85	12	25.4	24.25

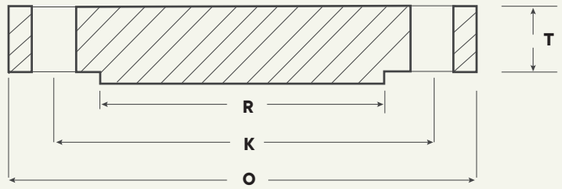
ANSI 300 WN



Nom. Dia of Flange	Outside Diam. of Range	Flange				NECK		Drilling		Weight
		O	B2	T	X	P.C.D K	R	Bolt No	H	Kg/w
15	1/2"	95.25	15.75	14.22	38.10	66.55	35.05	4	15.8	0.76
20	3/4"	117.35	20.9	15.75	47.75	82.55	42.93	4	19	1.27
25	1"	123.95	26.7	17.53	53.85	88.90	50.80	4	19	1.61
32	1-1/4"	133.35	35.05	19.05	63.50	98.55	63.50	4	19	2.05
40	1-1/2"	155.45	40.89	20.57	69.85	114.30	73.15	4	22.2	2.92
50	2"	165.10	52.58	22.35	84.07	127.00	91.95	8	19	3.46
65	2-1/2"	190.50	62.74	22.35	100.08	149.35	104.65	8	22.2	5.24
80	3"	209.55	77.93	28.45	117.35	168.15	127.00	8	22.2	6.98
100	4"	254.00	102.26	31.75	146.05	200.15	157.23	8	22.2	11.38
125	5"	279.40	128.19	35.05	177.80	234.95	185.67	8	22.2	15.20
150	6"	317.50	154.05	36.58	206.25	269.75	215.90	12	22.2	19.42
200	8"	381.00	202.72	41.15	260.35	330.20	269.75	12	25.0	30.16
250	10"	444.50	254.51	47.75	320.55	387.35	323.85	16	28.45	43.45

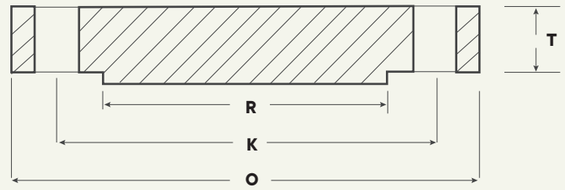
Flange to ANSI Standard

ANSI 150 BLIND



Nom. Dia of Flange	Outside Diam. of Range	Flange		NECK		Drilling		Weight
		O	T	P.C.D K	R	Bolt No	H	Kg/w
15	1/2"	88.90	11.18	60.45	35.05	4	15.8	0.45
20	3/4"	98.55	12.70	69.85	42.93	4	15.8	0.62
25	1"	107.95	14.22	79.25	50.80	4	15.8	0.86
32	1-1/4"	117.5	15.75	88.9	63.50	4	15.8	1.16
40	1-1/2"	127.1	17.53	98.55	73.15	4	15.8	1.54
50	2"	152.5	19.05	120.65	91.95	4	19	2.43
65	2-1/2"	177.9	22.35	139.70	104.65	4	19	3.98
80	3"	190.6	23.88	152.40	127.00	4	19	4.95
100	4"	228.7	23.88	190.50	157.23	8	19	7.04
125	5"	254.1	23.88	215.90	185.67	8	22.2	8.67
150	6"	279.5	25.40	241.30	215.90	8	22.2	11.34
200	8"	343	28.45	298.45	269.75	8	22.2	19.54
250	10"	406.5	30.23	361.95	323.85	12	25.4	28.85

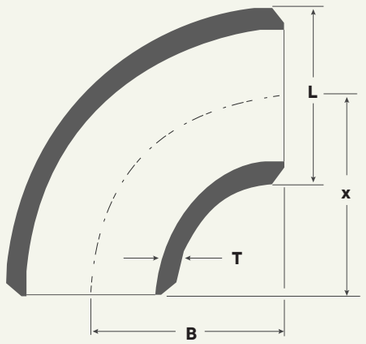
ANSI 300 BLIND

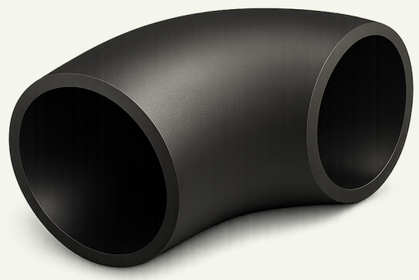


Nom. Dia of Flange	Outside Diam. of Range	Flange		NECK		Drilling		Weight
		O	T	P.C.D K	R	Bolt No	H	Kg/w
15	1/2"	95.25	14.22	66.55	35.05	4	15.8	0.64
20	3/4"	117.35	15.75	82.55	42.93	4	15.8	1.10
25	1"	123.95	17.53	88.90	50.80	4	15.8	1.40
32	1-1/4"	133.35	19.05	98.55	63.50	4	15.8	1.80
40	1-1/2"	155.45	20.57	114.30	73.15	4	15.8	2.65
50	2"	165.10	22.35	127.00	91.95	4	19	3.21
65	2-1/2"	190.50	22.35	149.35	104.65	4	19	4.86
80	3"	209.55	28.45	168.15	127.00	4	19	6.78
100	4"	254.00	31.75	200.15	157.23	8	19	11.51
125	5"	279.40	35.05	234.95	185.67	8	22.2	15.63
150	6"	317.50	36.58	269.75	215.90	8	22.2	20.93
200	8"	381.00	41.15	330.20	269.75	8	22.2	34.26
250	10"	444.50	47.75	387.35	323.85	12	25.4	53.61

ELBOW A234 WPB

SGP; SCH40 &SCH80

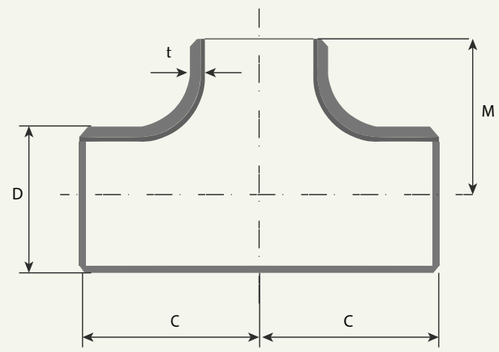




Nom. Dia of Elbow	Inch	O.D	Wall Thickness			B	WEIGHT		
			SGP	SCH40	SCH80		SGP	SCH40	SCH80
15	1/2”	21.7	2.8	2.8	3.7	38.1	0.078	0.078	0.1
20	3/4”	27.2	2.8	2.9	3.9	38.1	0.101	0.104	0.14
25	1”	34	3.2	3.4	4.5	38.1	0.145	0.153	0.19
32	1-1/4”	42.7	3.5	3.6	4.9	47.6	0.253	0.259	0.35
40	1-1/2”	48.6	3.5	3.7	5.1	57.2	0.349	0.368	0.49
50	2”	60.5	3.8	3.9	5.5	76.2	0.635	0.651	0.87
65	2-1/2”	76.3	4.2	5.2	7	59.3	1.12	1.36	1.77
80	3”	89.1	4.2	5.5	7.6	114.3	1.58	2.03	2.81
100	4”	114.3	4.5	6	8.6	152.4	2.91	3.83	5.45
125	5”	139.8	4.5	6.6	9.5	190.5	4.49	6.48	9.68
150	6”	165.2	5	7.1	11	228.6	7.09	9.93	15.9
200	8”	216.3	5.8	8.2	12.7	304.8	14.4	20.1	31.7
250	10”	267.4	6.6	9.3	15.1	381	25.4	35.4	58.1
300	12”	318.5	6.9	10.3	17.4	457.2	38	56.2	96.9
350	14”	355.6	7.9	11.1	19	533.4	56.7	73.9	136
400	16”	406.4	7.9	12.7	21.4	609.4	74.3	118	198
450	18”	457.2	7.9	14.3	23.8	685.8	94.2	168	279
500	20”	508	7.9	15.1	26.2	762	116	219	380

TEE A234 WPB

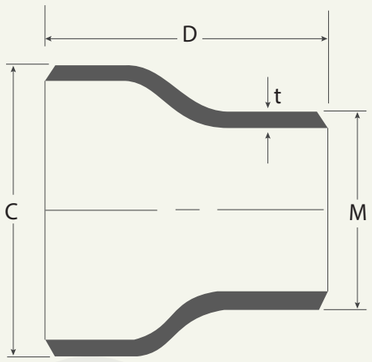
SGP; SCH40 &SCH80



Inch	O.D	M	Wall Thickness			C	WEIGHT		
			SGP	SCH40	SCH80		SGP	SCH40	SCH80
1/2”	21.7	38	2.8	2.8	3.7	38	0.09	0.09	0.12
3/4”	27.2	38	2.8	2.9	3.9	38	0.13	0.14	0.18
1”	34	48	3.2	3.4	4.5	48	0.20	0.22	0.30
1-1/4”	42.7	57	3.5	3.6	4.9	57	0.35	0.39	0.52
1-1/2”	48.6	57	3.5	3.7	5.1	57	0.48	0.52	0.70
2”	60.5	64	3.8	3.9	5.5	64	0.75	0.83	1.12
2-1/2”	76.3	76	4.2	5.2	7	76	1.20	1.39	1.90
3”	89.1	86	4.2	5.5	7.6	86	1.70	2.08	2.85
4”	114.3	105	4.5	6	8.6	105	2.90	3.66	5.00
5”	139.8	124	4.5	6.6	9.5	124	4.30	5.68	7.80
6”	165.2	143	5	7.1	11	143	6.20	8.30	11.90
8”	216.3	178	5.8	8.2	12.7	178	10.50	15.50	23.50
10”	267.4	216	6.6	9.3	15.1	216	17.80	26.60	42.00
12”	318.5	254	6.9	10.3	17.4	254	25.00	38.60	63.00
14”	355.6	279	7.9	11.1	19	279	34.00	50.00	90.00
16”	406.4	305	7.9	12.7	21.4	305	62.00	75.00	150.00
18”	457.2	343	7.9	14.3	23.8	343	84.00	102.00	210.00
20”	508	381	7.9	15.1	26.2	381	112.00	135.00	285.00

REDUCER CONCENTRIC A234 WPB

SGP; SCH40 &SCH80

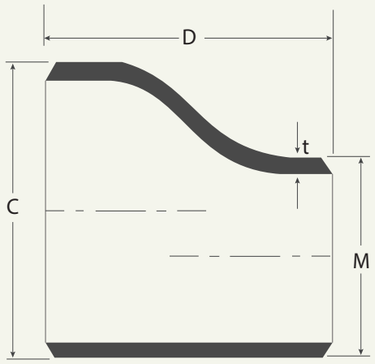


Nom. Dia of Elbow	C	M	Wall Thickness C			D	WEIGHT		
			SGP	SCH40	SCH80		SGP	SCH40	SCH80
3/4" X 1/2"	27.2	21.7	2.8	2.9	3.9	38.1	0.05	0.06	0.07
1" X 1/2"	34	21.7	3.2	3.4	4.5	38.1	0.07	0.08	0.10
1" X 3/4"	34	27.2	3.2	3.4	4.5	38.1	0.08	0.09	0.11
1-1/4" X 1/2"	42.7	21.7	3.5	3.6	5.1	38.1	0.11	0.12	0.14
1-1/4" X 3/4"	42.7	27.2	3.5	3.6	5.1	38.1	0.12	0.13	0.16
1-1/4" X 1"	42.7	34	3.5	3.6	5.1	38.1	0.13	0.14	0.18
1-1/2" X 1/2"	48.6	21.7	3.5	3.7	5.1	51	0.17	0.18	0.23
1-1/2" X 3/4"	48.6	27.2	3.5	3.7	5.1	51	0.18	0.20	0.25
1-1/2" X 1"	48.6	34	3.5	3.7	5.1	51	0.20	0.22	0.27
1-1/2" X 1-1/4"	48.6	42.7	3.5	3.7	5.1	51	0.22	0.24	0.30
2" X 1/2"	60.5	21.7	3.8	3.9	5.5	51	0.26	0.28	0.36
2" X 3/4"	60.5	27.2	3.8	3.9	5.5	51	0.28	0.30	0.38
2" X 1"	60.5	34	3.8	3.9	5.5	51	0.30	0.32	0.48
2" X 1-1/2"	60.5	48.6	3.8	3.9	5.5	51	0.33	0.35	0.46
2-1/2" X 1/2"	76.3	21.7	4.2	5.1	7	64	0.35	0.37	0.50
2-1/2" X 3/4"	76.3	27.2	4.2	5.1	7	64	0.52	0.55	0.75
2-1/2" X 1"	76.3	34	4.2	5.1	7	64	0.55	0.58	0.80
2-1/2" X 1-1/4"	76.3	42.7	4.2	5.1	7	64	0.58	0.63	0.86
2-1/2" X 1-1/2"	76.3	48.6	4.2	5.1	7	64	0.61	0.66	0.92
2-1/2" X 2"	76.3	60.5	4.2	5.1	7	64	0.65	0.72	1.02
3" X 1"	89.1	34	4.2	5.5	7.6	76	0.90	0.95	1.30
3" X 1-1/4"	89.1	42.7	4.2	5.5	7.6	76	0.96	1.02	1.38
3" X 1-1/2"	89.1	48.6	4.2	5.5	7.6	76	1.02	1.08	1.46
3" X 2"	89.1	60.5	4.2	5.5	7.6	76	1.08	1.15	1.55
3" X 2-1/2"	89.1	76.3	4.2	5.5	7.6	76	1.15	1.25	1.70

Nom. Dia of Elbow	C	M	Wall Thickness C			D	WEIGHT		
			SGP	SCH40	SCH80		SGP	SCH40	SCH80
4" x 1-1/2"	114.3	48.6	4.5	6.02	8.5	102	1.95	2.12	2.70
4" x 2"	114.3	60.5	4.5	6.02	8.5	102	2.05	2.28	2.90
4" x 2-1/2"	114.3	76.3	4.5	6.02	8.5	102	2.18	2.45	3.10
4" x 3"	114.3	89.1	4.5	6.02	8.5	102	2.30	2.60	3.35
5" x 1-1/2"	141.3	48.6	4.5	6.55	9.5	127	3.20	3.60	4.60
5" x 2"	141.3	60.5	4.5	6.55	9.5	127	3.40	3.85	4.90
5" x 2-1/2"	141.3	76.3	4.5	6.55	9.5	127	3.65	4.10	5.20
5" x 3"	141.3	89.1	4.5	6.55	9.5	127	3.85	4.35	5.50
5" x 4"	141.3	141.3	4.5	6.55	9.5	127	4.05	4.70	5.90
6" x 1-1/2"	168.3	48.6	5.0	7.11	10.8	140	4.90	5.60	7.00
6" x 2"	168.3	60.5	5.0	7.11	10.8	140	5.15	5.95	7.40
6" x 2-1/2"	168.3	76.3	5.0	7.11	10.8	140	5.40	6.30	7.90
6" x 3"	168.3	89.1	5.0	7.11	10.8	140	5.70	6.70	8.40
6" x 4"	168.3	114.3	5.0	7.11	10.8	140	6.00	7.10	9.10
6" x 5"	168.3	141.3	5.0	7.11	10.8	140	6.30	7.60	9.80
8" x 3"	219.1	89.1	5.8	8.18	12.7	152	10.80	12.50	14.7
8" x 4"	219.1	114.3	5.8	8.18	12.7	152	11.40	13.30	15.8
8" x 5"	219.1	141.3	5.8	8.18	12.7	152	12.10	14.1	17.0
8" x 6"	219.1	168.3	5.8	8.18	12.7	152	12.90	168.3	18.50
10" x 4"	273.1	114.3	6.6	9.27	15.1	178	18.80	21.40	26.50
10" x 5"	273.1	141.3	6.6	9.27	15.1	178	20.50	23.60	28.80
10" x 6"	273.1	168.3	6.6	9.27	15.1	178	22.10	25.80	31.20
10" x 8"	273.1	219.1	6.6	9.27	15.1	178	25.40	30.40	36.50

REDUCER ECCENTRIC A234 WPB

SGP; SCH40 &SCH80



Nom. Dia of Elbow	C	M	Wall Thickness C			D	WEIGHT		
			SGP	SCH40	SCH80		SGP	SCH40	SCH80
3/4" X 1/2"	27.2	21.7	2.8	2.9	3.9	38.1	0.05	0.06	0.07
1" X 1/2"	34	21.7	3.2	3.4	4.5	38.1	0.07	0.08	0.10
1" X 3/4"	34	27.2	3.2	3.4	4.5	38.1	0.08	0.09	0.11
1-1/4" X 1/2"	42.7	21.7	3.5	3.6	5.1	38.1	0.11	0.12	0.14
1-1/4" X 3/4"	42.7	27.2	3.5	3.6	5.1	38.1	0.12	0.13	0.16
1-1/4" X 1"	42.7	34	3.5	3.6	5.1	38.1	0.13	0.14	0.18
1-1/2" X 1/2"	48.6	21.7	3.5	3.7	5.1	51	0.17	0.18	0.23
1-1/2" X 3/4"	48.6	27.2	3.5	3.7	5.1	51	0.18	0.20	0.25
1-1/2" X 1"	48.6	34	3.5	3.7	5.1	51	0.20	0.22	0.27
1-1/2" X 1-1/4"	48.6	42.7	3.5	3.7	5.1	51	0.22	0.24	0.30
2" X 1/2"	60.5	21.7	3.8	3.9	5.5	51	0.26	0.28	0.36
2" X 3/4"	60.5	27.2	3.8	3.9	5.5	51	0.28	0.30	0.38
2" X 1"	60.5	34	3.8	3.9	5.5	51	0.30	0.32	0.48
2" X 1-1/2"	60.5	48.6	3.8	3.9	5.5	51	0.33	0.35	0.46
2-1/2" X 1/2"	76.3	21.7	4.2	5.1	7	64	0.35	0.37	0.50
2-1/2" X 3/4"	76.3	27.2	4.2	5.1	7	64	0.52	0.55	0.75
2-1/2" X 1"	76.3	34	4.2	5.1	7	64	0.55	0.58	0.80
2-1/2" X 1-1/4"	76.3	42.7	4.2	5.1	7	64	0.58	0.63	0.86
2-1/2" X 1-1/2"	76.3	48.6	4.2	5.1	7	64	0.61	0.66	0.92
2-1/2" X 2"	76.3	60.5	4.2	5.1	7	64	0.65	0.72	1.02
3" X 1"	89.1	34	4.2	5.5	7.6	76	0.90	0.95	1.30
3" X 1-1/4"	89.1	42.7	4.2	5.5	7.6	76	0.96	1.02	1.38
3" X 1-1/2"	89.1	48.6	4.2	5.5	7.6	76	1.02	1.08	1.46
3" X 2"	89.1	60.5	4.2	5.5	7.6	76	1.08	1.15	1.55
3" X 2-1/2"	89.1	76.3	4.2	5.5	7.6	76	1.15	1.25	1.70

Nom. Dia of Elbow	C	M	Wall Thickness C			D	WEIGHT		
			SGP	SCH40	SCH80		SGP	SCH40	SCH80
4" x 1-1/2"	114.3	48.6	4.5	6.02	8.5	102	1.95	2.12	2.70
4" x 2"	114.3	60.5	4.5	6.02	8.5	102	2.05	2.28	2.90
4" x 2-1/2"	114.3	76.3	4.5	6.02	8.5	102	2.18	2.45	3.10
4" x 3"	114.3	89.1	4.5	6.02	8.5	102	2.30	2.60	3.35
5" x 1-1/2"	141.3	48.6	4.5	6.55	9.5	127	3.20	3.60	4.60
5" x 2"	141.3	60.5	4.5	6.55	9.5	127	3.40	3.85	4.90
5" x 2-1/2"	141.3	76.3	4.5	6.55	9.5	127	3.65	4.10	5.20
5" x 3"	141.3	89.1	4.5	6.55	9.5	127	3.85	4.35	5.50
5" x 4"	141.3	141.3	4.5	6.55	9.5	127	4.05	4.70	5.90
6" x 1-1/2"	168.3	48.6	5.0	7.11	10.8	140	4.90	5.60	7.00
6" x 2"	168.3	60.5	5.0	7.11	10.8	140	5.15	5.95	7.40
6" x 2-1/2"	168.3	76.3	5.0	7.11	10.8	140	5.40	6.30	7.90
6" x 3"	168.3	89.1	5.0	7.11	10.8	140	5.70	6.70	8.40
6" x 4"	168.3	114.3	5.0	7.11	10.8	140	6.00	7.10	9.10
6" x 5"	168.3	141.3	5.0	7.11	10.8	140	6.30	7.60	9.80
8" x 3"	219.1	89.1	5.8	8.18	12.7	152	10.80	12.50	14.7
8" x 4"	219.1	114.3	5.8	8.18	12.7	152	11.40	13.30	15.8
8" x 5"	219.1	141.3	5.8	8.18	12.7	152	12.10	14.1	17.0
8" x 6"	219.1	168.3	5.8	8.18	12.7	152	12.90	168.3	18.50
10" x 4"	273.1	114.3	6.6	9.27	15.1	178	18.80	21.40	26.50
10" x 5"	273.1	141.3	6.6	9.27	15.1	178	20.50	23.60	28.80
10" x 6"	273.1	168.3	6.6	9.27	15.1	178	22.10	25.80	31.20
10" x 8"	273.1	219.1	6.6	9.27	15.1	178	25.40	30.40	36.50

03

CHAPTER

VALVE

Valve Standards

SUMMARY OF SPECIFICATION

Valves are essential components used to control, regulate, and isolate the flow of fluids in piping systems. By opening, closing, or partially obstructing the flow path, valves enable safe and efficient operation in various industrial processes including water distribution, oil and gas, chemical processing, steam systems, and general industrial utilities.

PRESSURE CLASS

JIS10K

JIS 10K valves are designed according to Japanese Industrial Standards and are commonly used in general industrial piping systems operating under moderate pressure conditions.

Typical applications include:
1. Water distribution systems
2. HVAC installations
3. Cooling water lines
4. General industrial utilities

JIS 10K valves are widely used in Asian industrial markets due to their compatibility with JIS flanges and piping standards.

CLASS 150

ANSI Class 150 valves are designed according to ASME / ANSI B16 standards and are suitable for low to medium pressure applications.

Typical applications include:
1.Water and wastewater systems
2.Oil and gas distribution lines
3.Chemical processing plants
4.Steam and condensate services

These valves provide reliable performance and are commonly used in general industrial and commercial piping systems.

MATERIAL SPECIFICATION

CAST IRON

Cast Iron valves are commonly used in low-pressure and non-corrosive applications.

Characteristics:
1. Economical and cost-effective
2. Suitable for water and air services
3. Good vibration damping

Typical applications:
1. Water supply systems
2. HVAC installations
3. Fire protection systems
4. Municipal piping networks

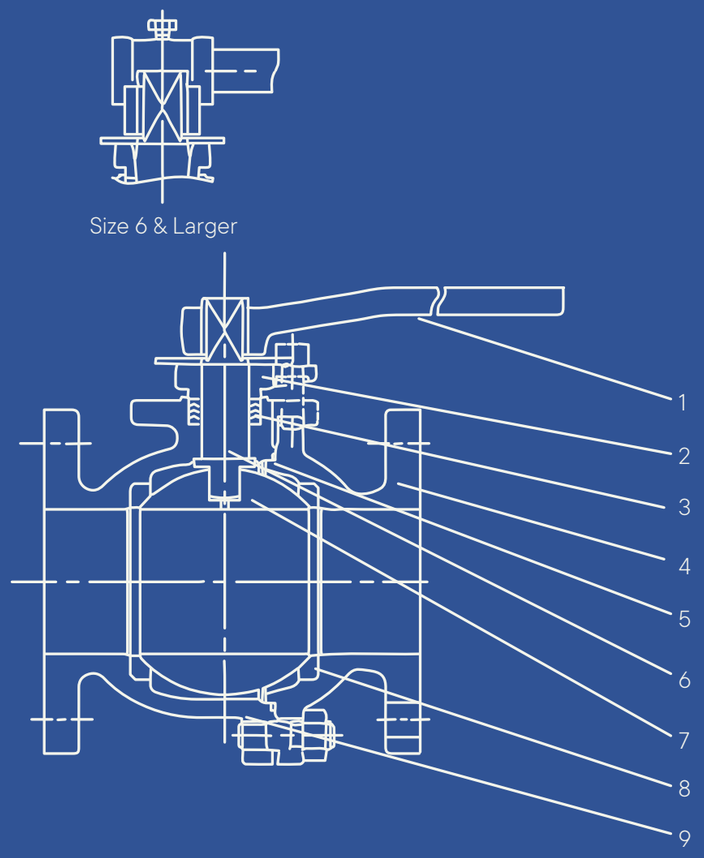
WCB

Carbon Steel (WCB) valves are designed for higher pressure and temperature applications where stronger mechanical properties are required.

Characteristics:
1. High strength and durability
2. Suitable for elevated temperatures
3. Good resistance to pressure stress

Typical applications:
1. Oil and gas pipelines
2. Steam systems
3. Refineries
4. Petrochemical industries

BALL VALVE JIS10K FLANGE



Size 6 & Larger

PART

1	Lever Handle
2	Packing Washer
3	Gland Packing
4	Body Cap
5	Gasket
6	Stem
7	Ball
8	Ball Seat
9	Body

UP TO SIZE 1-1/4

SIZE 2-1/2 to 4, 6

SIZE 5 ONLY

SIZE 8 ONLY

KITZ

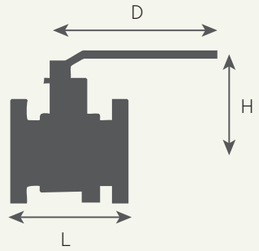
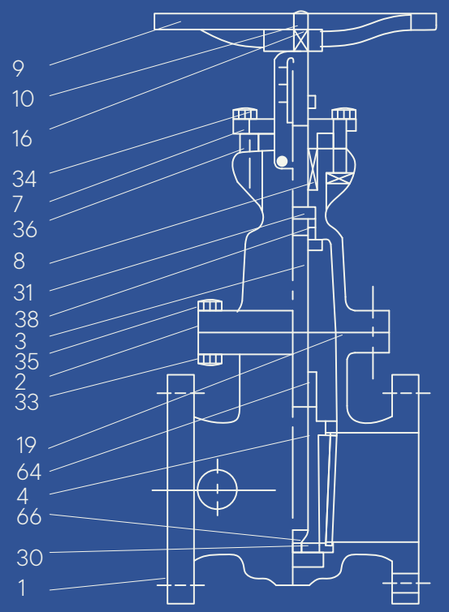
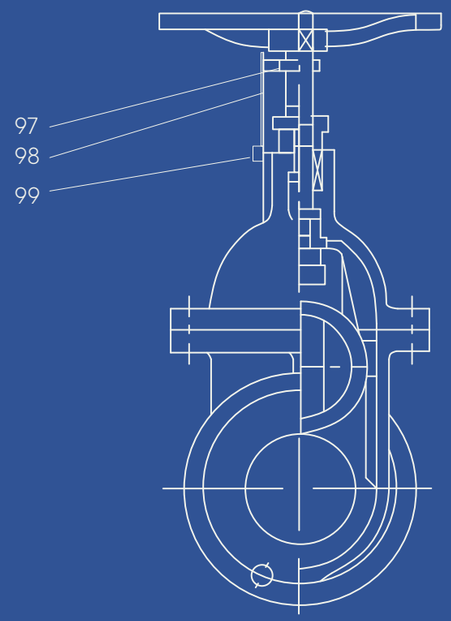


Fig		10 FCTB/G-10FCTB		
End Connection		JIS B2239 10 K FF		
inch	mm	L	H	D
1 1/2	40	165	114	230
2	50	180	121	230
2 1/2	65	190	154	400
3	80	200	163	400
4	100	230	199	460
5	125	300	219	460
6	150	340	292	1000
8	200	450	352	1500
10	250	533	477	500
12	300			

Body & Cap	FC200
Stem	403SS
Ball	304SS/CF8
Ball Seat	PTFE
Gland Packing	PTFE
Gasket	PTFE
Handle	DI/CS
Bore	Full Bore
Service Condition	120 Deg Non Shock Water 1.4Mpa
Service Condition	120 Deg W.O.G 1.0Mpa, Saturated Steam 0.7 Mpa
Remarks	

GATE VALVE JIS10K FLANGE
NRS





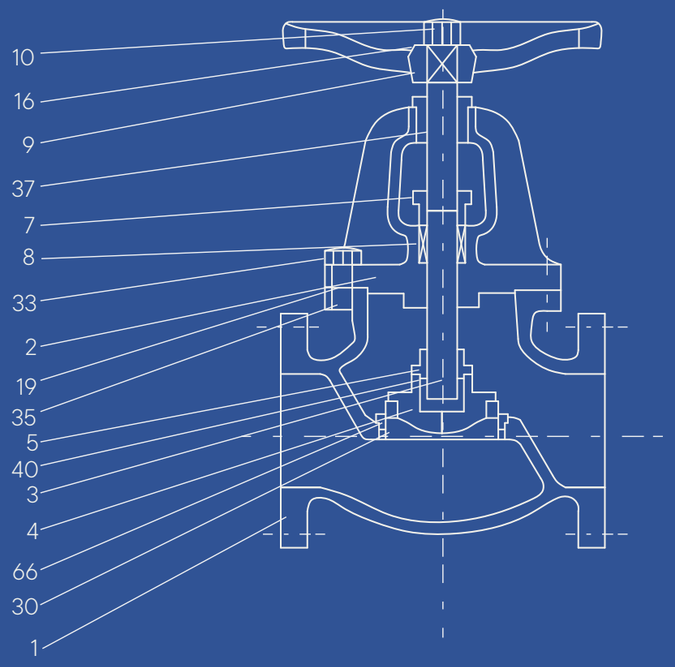
PART	
1	Body
2	Bonnet
3	Stem
4	Disc
7	Gland
8	Gland Packing
9	Handwheel
10	Wheel Nut
16	Washer
19	Gasket
30	Body Seat Ring
31	Stem Washer
33	Bonnet Nut
34	Gland Nut
35	Bonnet Bolt
36	Gland Bolt
38	Bonnet Bush
64	Stem Nut
66	Disc Seat Ring
97	Indicator
98	Plate
99	Set Bolt

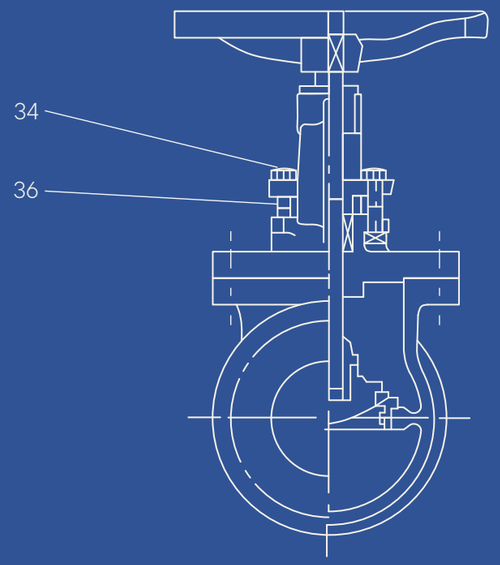
KITZ

Fig		10 FCHI		
End Connection		JIS B2239 10 K FF		
inch	mm	L	H	D
1 1/2	40	140	210	140
2	50	146	250	140
2 1/2	65	159	285	160
3	80	165	350	160
4	100	171	400	180
5	125	190	460	225
6	150	210	515	225
8	200	241	635	300
10	250	273	760	350
12	300	305	870	350

Body	FC300
Bonnet	FC300
Stem	C3771BE
Disc	FC300/CAC406 for 1 1/2
Body/Disc Seat Rings	CAC406
Gland Packing	Asbestos-free (P/A4531 K)
Gasket	Asbestos-free (T-1995)
Bolt/Nut	CS
Standard Approval	
Reference page	P-T Rating : Page C/10
Remarks	with indicator

GLOBE VALVE JIS10K FLANGE





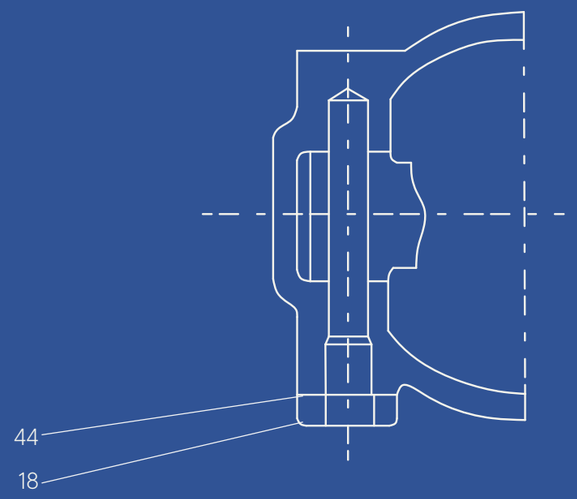
PART	
1	Body
2	Bonnet
3	Stem
4	Disc
5	Lock Nut
7	Gland
8	Gland Packing
9	Handwheel
10	Wheel Nut
16	Washer
19	Gasket
30	Body Seat Ring
33	Bonnet Nut
34	Gland Nut
35	Bonnet Bolt
36	Gland Bolt
37	Yoke Bush
40	Lock Plate
66	Disc Seat Ring

KITZ

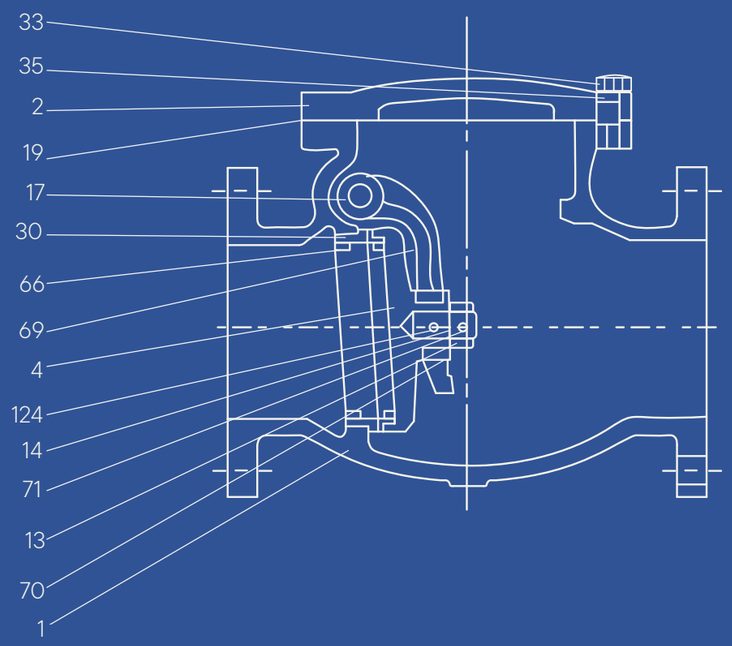
Fig		10 FCHI		
End Connection		JIS B2239 10 K FF		
inch	mm	L	H	D
1 1/2	40	140	210	140
2	50	146	250	140
2 1/2	65	159	285	160
3	80	165	350	160
4	100	171	400	180
5	125	190	460	225
6	150	210	515	225
8	200	241	635	300
10	250	273	760	350
12	300	305	870	350

Body	FC300
Bonnet	FC300
Stem	C3771BE
Disc	FC300/CAC406 for 1 1/2
Body/Disc Seat Rings	CAC406
Gland Packing	Asbestos-free (P/A4531 K)
Gasket	Asbestos-free (T-1995)
Bolt/Nut	CS
Standard Approval	
Reference page	P-T Rating : Page C/10
Remarks	with indicator

SWING CHECK VALVE JIS10K FLANGE



PART	
1	Body
2	Cover
4	Disc
13	Disc Nut
14	Split Nut
17	Hinge Pin
18	Plug
19	Gasket
30	Body Seat Ring
33	Cover Nut
35	Cover Bolt
44	Gasket
66	Disc Seat Ring
69	Arm
70	Washer
71	Disc Bolt
124	Spring Pin



KITZ

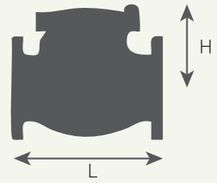
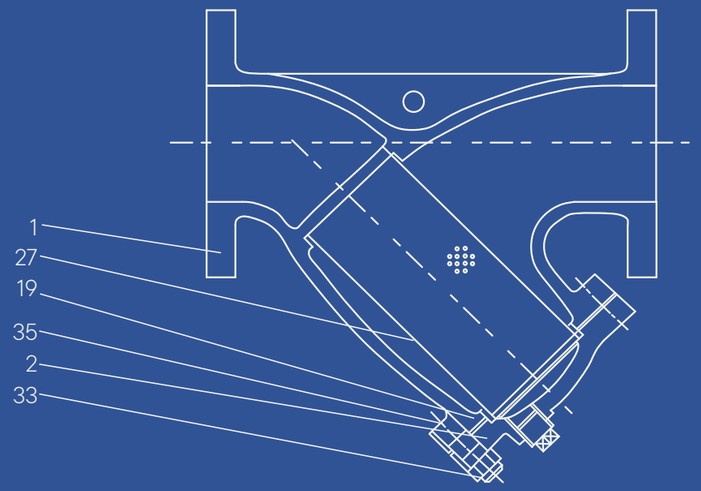


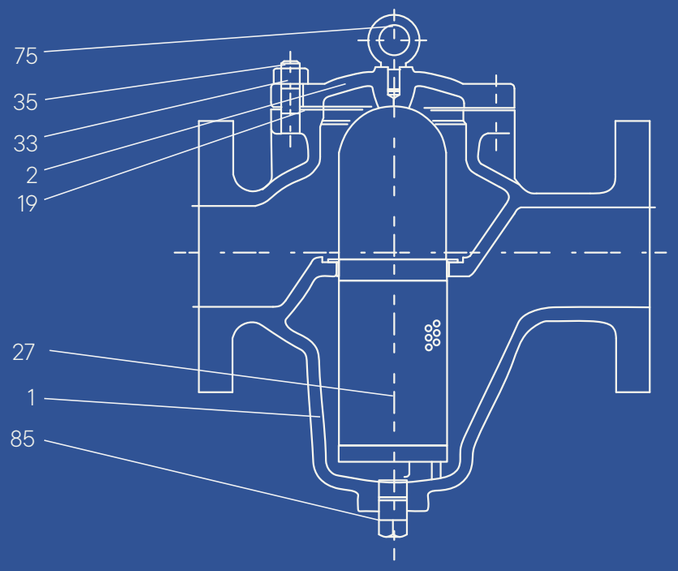
Fig		10 FCO		
End Connection		JIS B2239 10 K FF		
inch	mm	L	H	D
1 1/2	40	190	108	
2	50	200	113	
2 1/2	65	220	123	
3	80	240	149	
4	100	290	165	
5	125	360	207	
6	150	410	225	
8	200	500	271	
10	250	620	319	
12	300	700	356	

Body	FC200
Bonnet	FC200
Stem	C3771BD
Disc	FC200 Or CAC406
Body/Disc Seat Rings	CAC406
Gland Packing	
Gasket	Asbestos-free (T-1995)
Bolt/Nut	CS
Standard Approval	JIS B2031 for 2 - 8
Reference page	P-T Rating : Page C/10

STRAINER VALVE JIS10K FLANGE



PART	
1	Body
2	Stem
19	Disc
27	Nameplate
33	Endplate Bolt
35	O-Ring



PART	
1	Bearing
2	Thrust Bearing
19	Bolt for Gear set
27	Gear Unit
33	Bottom Stem
35	Rubber seat
75	Spring washer
85	End Plate

KITZ

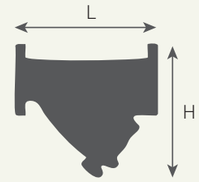
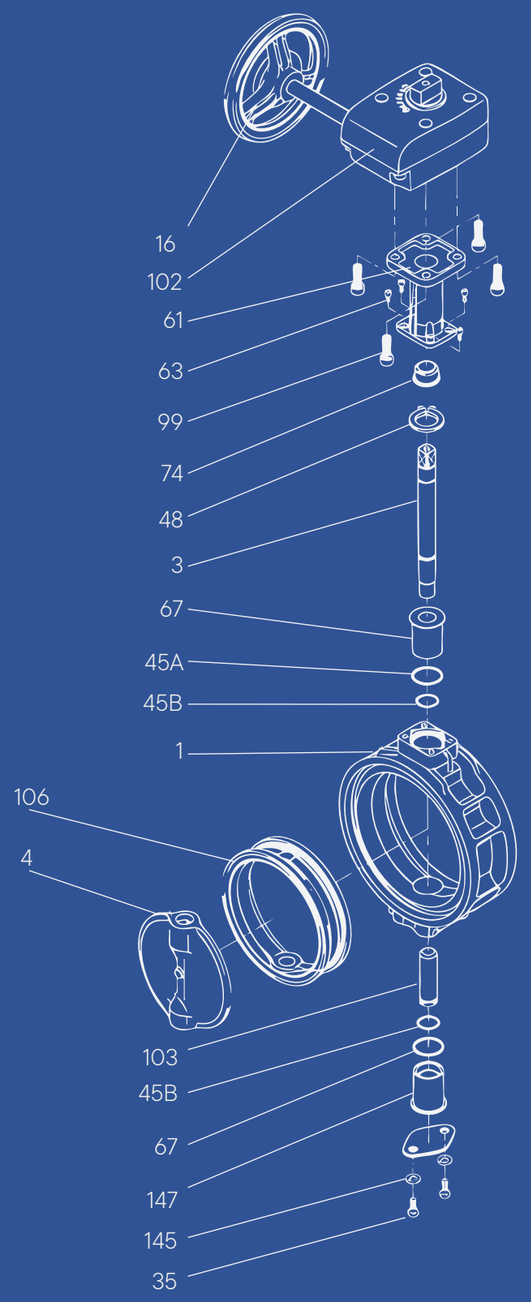


Fig		10 FCY		
End Connection		JIS B2239 10 K FF		
inch	mm	L	H	D
1 1/2	40	190	100	
2	50	230	138	
2 1/2	65	305	207	
3	80	360	237	
4	100	415	278	
5	125	465	321	
6	150	515	367	
8	200	580	457	
10	250	680	536	
12	300	800	625	

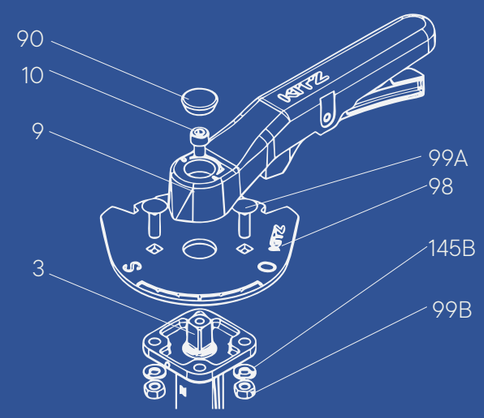
Body	FC300
Cap/Cover	C3771BE/FC200 For 2 &Over
Screen	304SS (Punched Plate)
Gasket	T/1995
Bolt/Nut	CS
Plug	304SS
Service Condition	120Deg Non Shock water 1.4Mpa
Service Condition	120Deg Water Oil Air : 1.0 Mpa, 120Deg
Service Condition	Gas: 0.2Mpa, Saturated Steam: 0.7Mpa
Reference page	
Remarks	Screwed Cap up to 1 1/2

BUTTERFLY VALVE XJME
LEVER & GEAR



PART	
1	Body
3	Stem
4	Disc
16	Nameplate
35	Endplate Bolt
45A	O-Ring
45B	O-Ring
48	Snap Ring
61	Stand
63	Stand Mounting bolt
67	Bearing
77	Thrust Bearing
99	Bolt for Gear set
102	Gear Unit
103	Bottom Stem
106	Rubber seat
145	Spring washer
147	End Plate

PART	
9	Lever Handle
10	Handle retaining bolt
90	Cover
98	Indicator plate
99A	Handle retaining bolt
99B	Cover
145B	Indicator plate



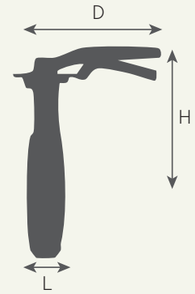
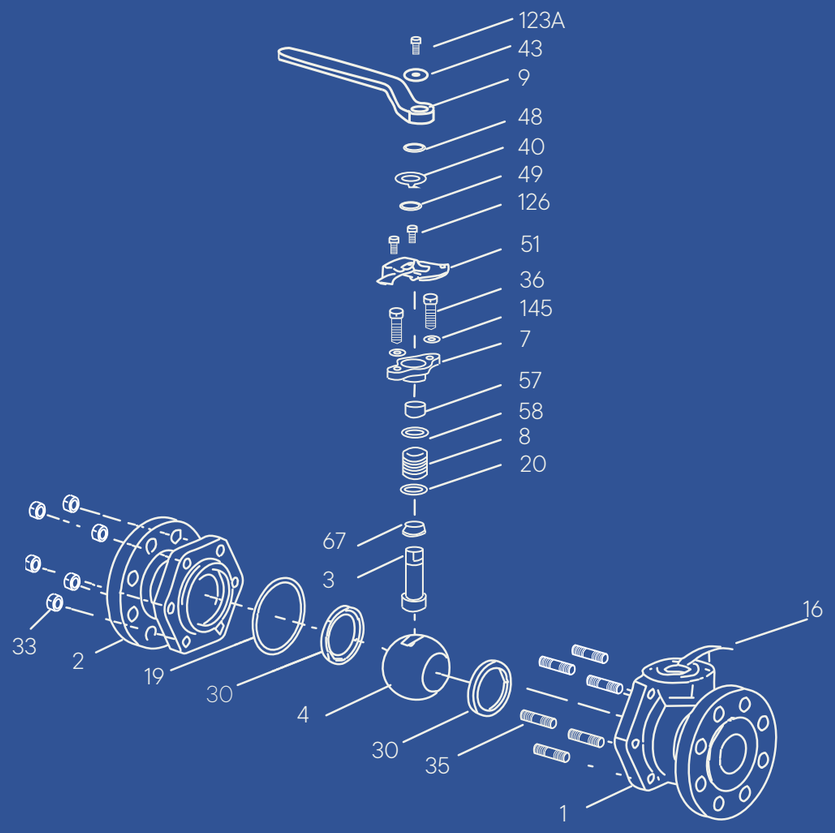


Fig	10XJME		
End Connection	Wafer (JIS5K / 10K)		
inch / mm	L	H	D
1 1/2 / 40	33	172	180
2 / 50	43	176	180
2 1/2 / 65	46	185	180
3 / 80	46	193	180
4 / 100	52	204	180
5 / 125	56	249	230
6 / 150	56	261	230
8 / 200	60	281	350
10 / 250			
12 / 300			

Body	ADC12(ASTM B85-84 383.0)
Neck	304SS
Stem/Bottom Stem	410SS
Disc	CF8M
O Ring	EPDM
Rubber Seat	EPDM
Features	Dew Condensation Prevention
Service Temperature	Minus 20Deg to 120 Deg C 1.0 Mpa (Not Frozen)
Range	Continuous Sevice Temp. -20Deg C to +100 Deg C
Reference page	P-T Rating/Flow Charateristics/Pressure Loss :Page BFV28
Remarks	

BALL VALVE ANSI 150 FLANGE



PART	
1	Body
2	Body Cap
3	Stem
4	Ball
7	Gland
8	Gland Packing
9	Handle
16	Name Plate
19	Gasket
20	Packing Washer
30	Ball Seat
33	Cap Nut
35	Cap Bolt
36	Gland Bolt
40	Keylock Plate
43	Handle - lock Plate
48	Snap Ring
49	Stopper
51	Stopper Plate
57	Gland Bush
58	Gland Washer
67	Stem Bearing
123A	Handle -Lock Plate bolt
126	Stopper Plate Bolt
145	Coned disc spring

KITZ

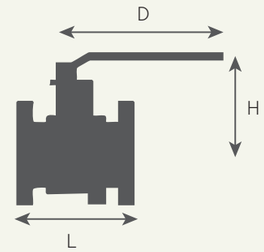
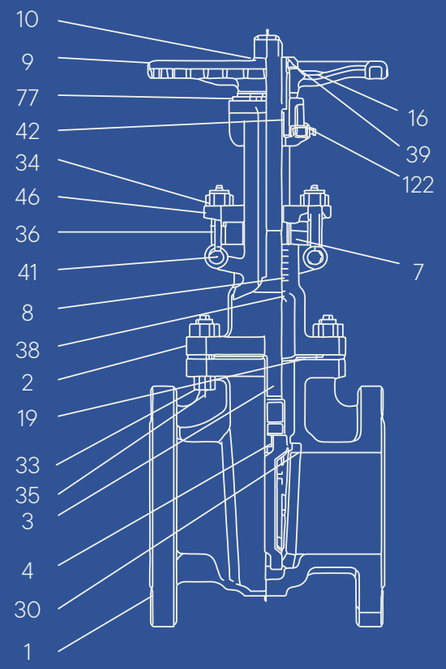
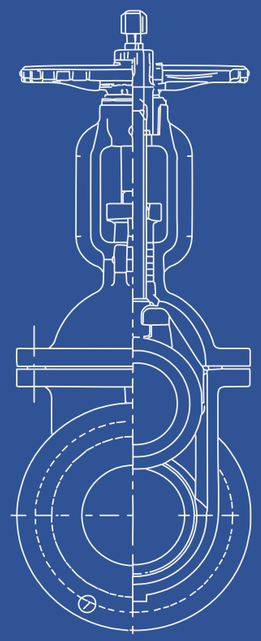


Fig		10 FCTB/G-10FCTB		
End Connection		JIS B2239 10 K FF		
inch	mm	L	H	D
1 1/2	40	165	114	230
2	50	180	121	230
2 1/2	65	190	154	400
3	80	200	163	400
4	100	230	199	460
5	125	300	219	460
6	150	340	292	1000
8	200	450	352	1500
10	250	533	477	500
12	300			

Body & Cap	FC200
Stem	403SS
Ball	304SS/CF8
Ball Seat	PTFE
Gland Packing	PTFE
Gasket	PTFE
Handle	DI/CS
Bore	Full Bore
Service Condition	120 Deg Non Shock Water 1.4Mpa
Service Condition	120 Deg W.O.G 1.0Mpa, Saturated Steam 0.7 Mpa
Remarks	

GATE VALVE ANSI 150 FLANGE





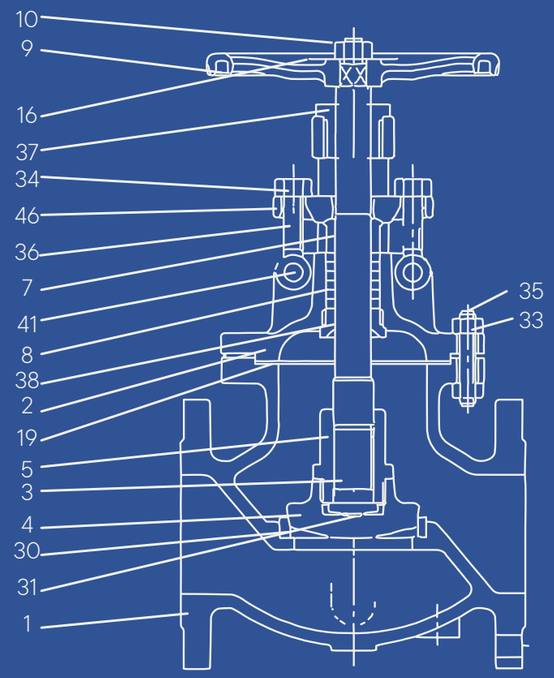
PART	
1	Body
2	Bonnet
3	Stem
4	Disc
7	Gland
8	Gland Packing
9	Hand Wheel
10	Wheel nut
16	Name Plate
19	Gasket
30	Body Seat Ring
33	Bonnet Nut
34	Gland Nut
35	Bonnet Bolt
36	Gland Bolt
38	Bonnet Bush
39	Set Screw
41	Gland Bolt Pin
42	Yoke Sleeve
46	Gland Flange
77	Sleeve Nut
122	Grease Nipple

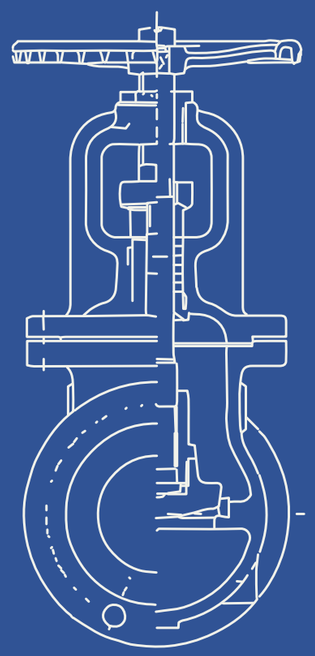
KITZ

Fig		150SCLS/G-150SCLS		
End Connection		ASME B16.5 Class 150 RF		
inch	mm	L	H	D
1 1/2	40	165	385	200
2	50	178	385	200
2 1/2	65	190	432	200
3	80	203	509	250
4	100	229	592	250
5	125	254	658	300
6	150	267	758	300
8	200	292	958	350
10	250	330	1162	400
12	300	356	1362	450

Body/Bonnet	WCB
Stem	F6a
Disc	13Cr or Carbon Steel +13Cr
Body Seat Ring	Carbon Steel +HF
Gland Packing	Flexible Graphite
Gasket	
Bonnet Bolt/Nut	B7/2H
P-T Rating	ASME B16.34
F to F Dimension	ASME B16.10
Wall Thickness	API 600
Remarks	Flexible Wedge *MSS SP-44 (22")/ ASME B16.47

GLOBE VALVE ANSI 150 FLANGE





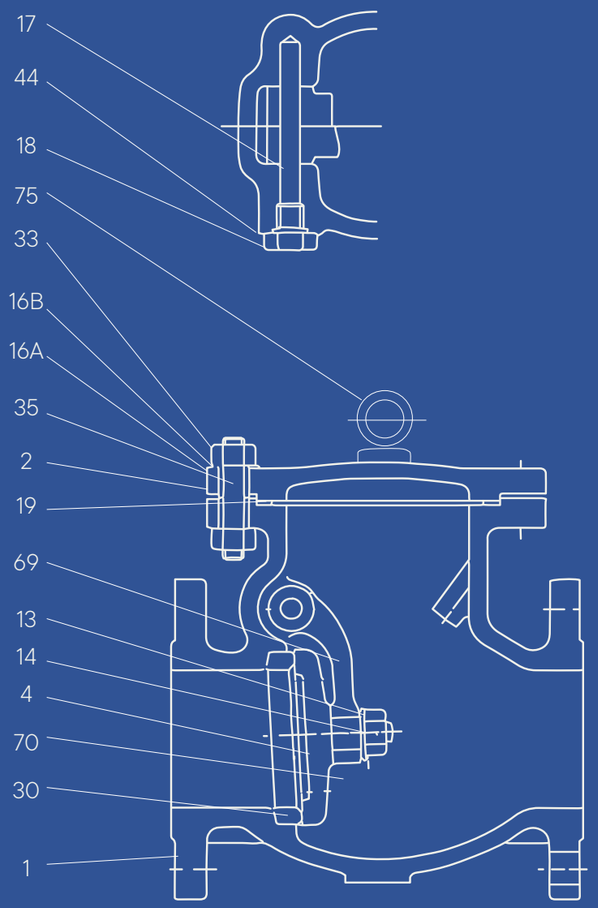
PART	
1	Body
2	Bonnet
3	Stem
4	Disc
5	Lock Nut
7	Gland
8	Gland Packing
9	Handwheel
10	Wheel Nut
16	Name Plate
19	Gasket
30	Body Seat Ring
31	Stem Washer
33	Bonnet Nut
34	Gland Nut
35	Bonnet Bolt
36	Gland Bolt
37	Yoke Bush
38	Bonnet Bush
41	Gland Bolt Pin
46	Gland Flange

KITZ

Fig		150SCLS/G-150SCLS		
End Connection		ASME B16.5 Class 150 RF		
inch	mm	L	H	D
1 1/2	40	165	385	200
2	50	178	385	200
2 1/2	65	190	432	200
3	80	203	509	250
4	100	229	592	250
5	125	254	658	300
6	150	267	758	300
8	200	292	958	350
10	250	330	1162	400
12	300	356	1362	450

Body/Bonnet	WCB
Stem	F6a
Disc	13Cr or Carbon Steel +13Cr
Body Seat Ring	Carbon Steel +HF
Gland Packing	Flexible Graphite
Gasket	
Bonnet Bolt/Nut	B7/2H
P-T Rating	ASME B16.34
F to F Dimension	ASME B16.10
Wall Thickness	API 600
Remarks	Flexible Wedge *MSS SP-44 (22")/ ASME B16.47

SWING CHECK VALVE ANSI 150 FLANGE



PART	
1	Body
2	Cover
4	Disc
13	Disc Nut
14	Split Pin
16A	Name Plate
16B	Washer
17	Hinge Pin
18	Plug
19	Gasket
30	Body Seat Ring
33	Cover Nut
35	Cover Bolt
44	Gasket
69	Arm
70	Washer
75	Eye Bolt

KITZ

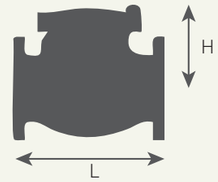


Fig		150 SCOS		
End Connection		ASME B16.5 Class 150 RF		
inch	mm	L	H	D
1 1/2	40	165	132	
2	50	203	156	
2 1/2	65	216	123	
3	80	241	185	
4	100	292	210	
5	125	330	239	
6	150	356	250	
8	200	495	293	
10	250	622	340	
12	300	698	377	

Body/Binnet/Cover	WCB
Stem/Hinge Pin	403SS
Disc	13Cr or Carbon Steel + 13 Cr
Body Seat Ring	Carbon Steel + HF
Gland Packing	
Gasket	
Bonnet Bolt/Nut	B7/2H
P-T Rating	ASME B16.34
F to F Dimension	ASME B16.10
Wall Thickness	API 600
Remarks	ASME B16.47 Series B (26" & Above)

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