

# SJTAPE - PIPE DIAMETER TAPE

Go/No-Go | Dual-Sided | IPS & CTS  
 3/4" - 24" IPS  
 PER ANSI B36.10 / B36.19

## OUTSIDE DIAMETER

VERIFY THAT THE PIPE OUTSIDE DIAMETER MEETS SHURJOINT® SPECIFICATIONS

1. Ensure pipe is free from dirt, scale, and excess paint. Remove welding beads.
2. Using the **ANSI B36.10 NPS** side, wrap the tape around the pipe OD, overlapping the two ends as shown below. Ensure the tape is not twisted.

Note: The arrow must be within the **PIPE OD RANGE** band for that pipe size.



## GROOVE DIAMETER

VERIFY THAT THE PIPE GROOVE DIAMETER MEETS SHURJOINT® SPECIFICATIONS

1. Ensure the groove and gasket sealing areas of the pipe are clean and smooth.
2. Using the **ANSI B36.10 NPS** side, wrap the tape around the pipe groove, overlapping the two ends as shown below. Ensure the tape is not twisted.

Note: The arrow must be within the **GROOVE DIAMETER RANGE** band for that pipe size. If the arrow does not fall within the band, use the lines at 0.01-in increments to adjust the grooving tool as needed.



## MAXIMUM FLARE DIAMETER

VERIFY THAT THE PIPE FLARE DIAMETER MEETS SHURJOINT® SPECIFICATIONS

1. Using the **ANSI B36.10 NPS** side, wrap the tape around the end of the pipe, overlapping the two ends as shown below. Ensure the tape is not twisted.

Note: The arrow must be between the **PIPE OD RANGE** band and **MAX FLARE** mark. The arrow must not exceed the **MAX FLARE** mark.

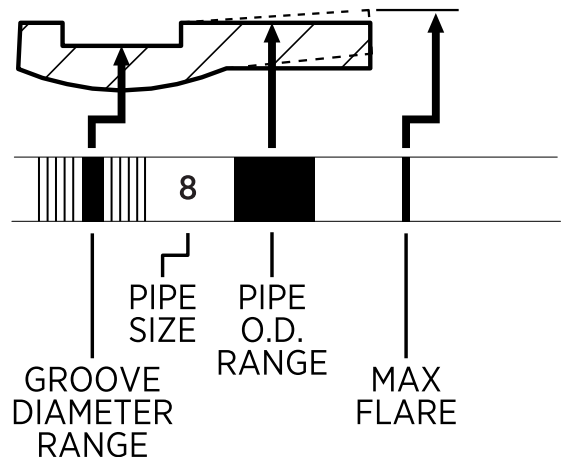


## IPS PIPE

### GROOVED STEEL AND STAINLESS STEEL

Dimensions shown are applicable to the ANSI B36.10 NPS side of the tape.

NOMINAL PIPE SIZE	ACTUAL OD	PIPE OD		GROOVE DIA. "C"		MAX ALLOW. FLARE DIA.
		MAX	MIN	MAX	MIN	
in.	in.	in.	in.	in.	in.	in.
mm	mm	mm	mm	mm	mm	mm
3/4	1.050	1.060	1.040	0.938	0.923	1.15
20	26.7	26.9	26.4	23.8	23.4	29.2
1	1.315	1.328	1.302	1.190	1.175	1.43
25	33.4	33.7	33.1	30.2	29.8	36.3
1-1/4	1.660	1.676	1.644	1.535	1.520	1.77
32	42.2	42.6	41.8	39.0	38.6	45.0
1-1/2	1.900	1.919	1.881	1.775	1.760	2.01
40	48.3	48.7	47.8	45.1	44.7	51.1
2	2.375	2.399	2.351	2.250	2.235	2.48
50	60.3	60.9	59.7	57.2	56.8	63.0
2-1/2	2.875	2.904	2.846	2.720	2.702	2.98
65	73.0	73.8	72.3	69.1	68.6	75.7
3	3.500	3.535	3.469	3.344	3.326	3.60
80	88.9	89.8	88.1	84.9	84.5	91.4
3-1/2	4.000	4.040	3.969	3.834	3.814	4.10
90	101.6	102.6	100.8	97.4	96.9	104.1
4	4.500	4.540	4.469	4.334	4.314	4.60
100	114.3	115.3	113.5	110.1	109.6	116.8
5	5.563	5.619	5.532	5.395	5.373	5.66
125	141.3	142.7	140.5	137.0	136.5	143.8
6	6.625	6.688	6.594	6.455	6.433	6.73
150	168.3	169.9	167.5	164.0	163.4	170.9
8	8.625	8.688	8.594	8.441	8.416	8.80
200	219.1	220.7	218.3	214.4	213.8	223.5
10	10.750	10.813	10.719	10.562	10.535	10.92
250	273.1	274.7	272.3	268.3	267.6	277.4
12	12.750	12.813	12.719	12.531	12.501	12.92
300	323.9	325.5	323.1	318.3	317.5	328.2
14	14.000	14.063	13.969	13.781	13.751	14.10
350	355.6	357.2	354.8	350.0	349.3	358.1
16	16.000	16.063	15.969	15.781	15.751	16.10
400	406.4	408.0	405.6	400.8	400.1	408.9
18	18.000	18.063	17.969	17.781	17.751	18.16
450	457.2	458.8	456.4	451.6	450.9	461.3
20	20.000	20.063	19.969	19.781	19.751	20.16
500	508.0	509.6	507.2	502.4	501.7	512.1
22	22.000	22.063	21.969	21.656	21.626	22.20
550	558.8	560.4	558.0	550.1	549.3	563.9
24	24.000	24.063	23.969	23.656	23.626	24.20
600	609.6	611.2	608.8	600.9	600.1	614.7



# SJTAPE - PIPE DIAMETER TAPE

Go/No-Go | Dual-Sided | IPS & CTS

2" - 8" CTS TYPES K, L, M COPPER TUBING

PER ASTM B-88 AND DWV PER ASTM B-306

## OUTSIDE DIAMETER

VERIFY THAT THE TUBING OUTSIDE DIAMETER MEETS SHURJOINT® SPECIFICATIONS

1. Ensure tubing is free from defects.
2. Using the **CTS** side, wrap the tape around the OD, overlapping the two ends as shown below. Ensure the tape is not twisted.

Note: The arrow must be within the **TUBING OD RANGE** band for that pipe size.



## GROOVE DIAMETER

VERIFY THAT THE TUBING GROOVE DIAMETER MEETS SHURJOINT® SPECIFICATIONS

1. Ensure the groove and gasket sealing areas of the tubing are clean and smooth.
2. Using the **CTS** side, wrap the tape around the groove, overlapping the two ends as shown below. Ensure the tape is not twisted.

Note: The arrow must be within the **GROOVE DIAMETER RANGE** band for that size. If the arrow does not fall within the band, use the lines at 0.01-in increments to adjust the grooving tool as needed.



## MAXIMUM FLARE DIAMETER

VERIFY THAT THE TUBING FLARE DIAMETER MEETS SHURJOINT® SPECIFICATIONS

1. Using the **CTS** side, wrap the tape around the end of the tubing, overlapping the two ends as shown. Ensure the tape is not twisted.

Note: The arrow must be between the **TUBING OD RANGE** band and **MAX FLARE** mark. The arrow must not exceed the **MAX FLARE** mark.

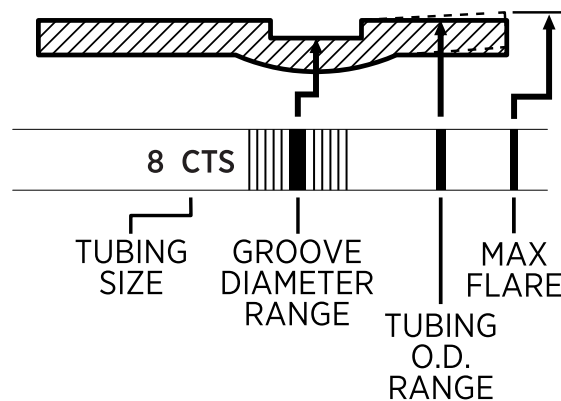


## CTS

### GROOVED COPPER TUBING

Dimensions shown are applicable to the CTS side of the tape.

NOMINAL SIZE	ACTUAL OD	TUBING OD		GROOVE DIA. "C"		MAX ALLOW. FLARE DIA.
		MAX	MIN	MAX	MIN	
in.	in.	in.	in.	in.	in.	in.
2	2.125	2.130	2.120	2.029	2.009	2.22
50	54.0	54.1	53.8	51.5	51.0	56.4
2-1/2	2.625	2.630	2.620	2.525	2.505	2.72
65	66.7	66.8	66.5	64.1	63.6	69.1
3	3.125	3.130	3.120	3.025	3.005	3.22
80	79.4	79.5	79.2	76.8	76.3	81.8
4	4.125	4.130	4.120	4.019	3.999	4.22
100	104.8	104.9	104.6	102.1	101.6	107.2
5	5.125	5.130	5.120	4.999	4.979	5.22
125	130.2	130.3	130.0	127.0	126.5	132.6
6	6.125	6.130	6.120	5.999	5.979	6.22
150	155.6	155.7	155.4	152.4	151.9	158.0
8	8.125	8.131	8.119	7.959	7.939	8.22
200	206.4	206.5	206.2	202.2	201.7	208.8



## ATTENTION

1. Nominal Pipe Size (NPS) in inches per ANSI B36.10 and B36.19. Pipe ends must be square-cut with a max tolerance from true square line of 0.030" for sizes 3/4" thru 3-1/2", 0.045" for sizes 4" thru 6", and 0.060" for sizes 8" and above.
2. Copper Tube Size (CTS) per ASTM B-88 and Drain-Waste-Vent (DWV) per ASTM B-306, both in inches.
3. This tape measure is not a calibrated instrument and should be used for reference measurements only. Use calibrated gauges or calipers to accurately measure pipe or tubing dimensions.
4. After grooving, ensure all diameters measure within Shurjoint® specifications. Installation and pressurization of grooved pipe or tubing that does not meet Shurjoint® specifications may result in joint failure, personal injury, or property damage.
5. To avoid serious personal injury, wear safety glasses, a hard hat, and foot protection when working with pipe preparation tools.
6. DO NOT use this tape measure to check AWWA cast or ductile iron pipe OD or grooves.