

FNWF110GT

GO/NO-GO PIPE DIAMETER TAPE MEASURE

FNW[®]

INSTRUCTIONS



WARNING:

- Before use, carefully read and fully understand all instructions for the FNWF110GT, Go/No-Go pipe diameter tape.
- The F110GT is designed as a reference tool only and is not a substitute for calibrated measuring instruments or proper inspection procedures. For precise verification of pipe and groove diameters, use a routinely calibrated instrument traceable to recognized standards.
- Wear appropriate personal protective equipment, including safety glasses, hard hat, foot protection and hearing protection when grooving pipe. Failure to follow all instructions can lead to improper assembly, resulting in serious injury and/or property damage.

CAUTION/TIPS:

- The F110GT has Go/No-Go markings on one side for use with ANSI B36.10/B36.19 pipe sizes. The alternate side has markings in 0.01 in/0.3 mm increments.
- The Go/No-Go side must be used only to check cut-grooved and roll-grooved pipe to AWWA C606 specifications for sizes 2"-12."

INSTRUCTIONS:



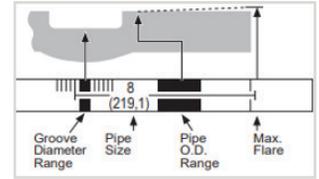
WARNING:

- Verify the outside diameter of the pipe is within ANSI B36.10/B36.19 specifications.
- After grooving pipe, make sure all diameters are measured in accordance with AWWA.

Installation and pressurization of grooved pipe that does not conform to specifications could cause joint failure, resulting in serious personal injury and/or property damage.

MEASURING THE OUTSIDE PIPE DIAMETER

1. Clean the pipe by removing any dirt, rust and paint.
2. Wrap the tape measure around the pipe, making sure the ends overlap. Ensure that the tape is not twisted.



French and Spanish instructions are available upon request.

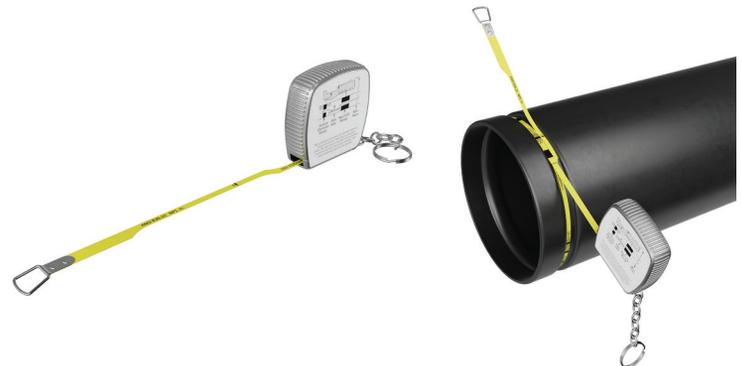
3. To measure the pipes outside diameter using the "Go/No-Go" side of the tape, pull both ends of the tape taught.
4. Check if the arrow on the tape is inside the "Pipe OD Range" section for the correct pipe size. The arrow must be within the range to meet specifications.

NOTE: If using the 0.01 inch/0.3mm side of the tape, compare the reading to the reference table 1.1 to determine if the pipe OD is within specification.

MEASURING THE GROOVE DIAMETER

1. Wrap the tape measure around the base of the groove, making sure the tape is not twisted and that the ends of the tape overlap.
2. To measure the pipes groove diameter using the "Go/No-Go" side of the tape, pull both ends of the tape taught.
3. Check if the arrow on the tape is inside the "Groove Diameter Range" section for the correct pipe size. The arrow must be within the range to meet specifications.

NOTE: If using the 0.01 inch/0.3mm side of the tape, compare the reading to the applicable grooved manufacturers specification to determine if the groove diameter is within specification.



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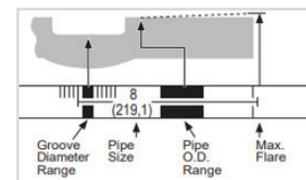
GO/NO-GO PIPE DIAMETER TAPE MEASURE



INSTRUCTIONS

CHECKING THE MAXIMUM FLARE DIAMETER (ROLL-GROOVED PIPE ONLY)

1. Wrap the tape measure around the pipe end or edge of the pipe bevel, making sure to overlap the two ends. Ensure the tape is flat and not twisted during measurement.
2. Use the "Go/No-Go" side of the tape to verify the maximum flare diameter. The arrow must not exceed the "Maximum Flare" range specification marked.



French and Spanish instructions are available upon request.

REFERENCE TABLE

Nominal Size	Actual Outside Diameter	Pipe Outside Diameter		Grooved Diameter "C"		Maximum Allowed Flare Diameter
		Minimum	Maximum	Minimum	Maximum	
in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm
3/4	1.050	1.040	1.060	0.923	0.938	1.150 ¥
20	26.9	26.4	26.9	23.4	23.8	29.2 ¥
1	1.315	1.302	1.328	1.175	1.19	1.429 ¥
25	33.7	33.1	33.7	29.9	30.2	36.3 ¥
1-1/4	1.660	1.644	1.676	1.52	1.535	1.772 ¥
32	42.4	41.8	42.6	38.6	39	45 ¥
1-1/2	1.900	1.881	1.919	1.76	1.775	2.012
40	48.3	47.8	48.7	44.7	45.1	51.1
2	2.375	2.351	2.399	2.235	2.25	2.480
50	60.3	59.7	60.9	56.8	57.2	63
2-1/2	2.875	2.846	2.904	2.702	2.72	2.980
65	73.0	72.3	73.8	68.6	69.1	75.7
3	3.500	3.469	3.535	3.326	3.344	3.598
80	88.9	88.1	89.8	84.5	84.9	91.4
3-1/2	4.000	3.969	4.040	3.814	3.834	4.098
90	101.6	100.8	102.6	96.9	97.4	104.1
4	4.500	4.469	4.545	4.314	4.334	4.350
100	114.3	113.5	115.4	109.6	110.1	110.5
5	5.563	5.532	5.619	5.373	5.395	5.598
125	141.3	140.5	142.7	136.5	137	142.2

Nominal Size	Actual Outside Diameter	Pipe Outside Diameter		Grooved Diameter "C"		Maximum Allowed Flare Diameter
		Minimum	Maximum	Minimum	Maximum	
in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm
6	6.625	6.594	6.688	6.433	6.455	6.728
150	168.3	167.5	169.9	163.4	164	170.9
8	8.625	8.594	8.688	8.416	8.441	8.799
200	219.1	218.3	220.7	213.8	214.4	223.5
10	10.750	10.719	10.813	10.535	10.562	10.921
250	273.0	272.3	274.7	267.6	268.3	277.4
12	12.750	12.719	12.130	12.501	12.531	12.921
300	323.9	323.1	325.5	317.5	318.3	328.2
14	14.000	13.969	14.094	13.751	13.781	14.228
350	355.6	354.8	358.0	349.3	350.0	361.4
16	16.000	15.969	16.094	15.751	15.781	16.228
400	406.4	405.6	408.8	400.1	400.8	412.2
18	18.000	17.969	18.094	17.751	17.781	18.228
450	457.0	546.4	510.4	450.9	451.6	463
20	20.000	19.969	20.094	19.751	19.781	20.228
500	508.0	507.2	510.4	501.7	502.4	513.8
24	24.000	23.969	24.094	23.626	23.656	24.228
600	610.0	608.8	612.0	600.1	600.9	615.4

Notes:

- ¥ The flare diameter for 3/4"–1-1/4" sizes should be checked with the side of the tape marked in 0.01 inch increments.
- "C" Dimension: The "C" dimension is the proper diameter at the base of the groove. This dimension must be within the diameter's tolerance and concentric with the outside diameter for proper coupling fit. The groove must be of uniform depth for the entire pipe circumference.
- Maximum Allowable Flare Diameter: This dimension is measured at the extreme pipe-end diameter of square-cut or beveled-end grooved pipe.
- Grooved Diameters are based on AWWA C606. For sizes 14" and larger ensure you reference the grooved manufacturers specifications to confirm proper dimensions.