

Pipe Outside Diameter Guide

IMPORTANT: This Pipe O.D. Guide is furnished for your convenience and is based on the latest pipe standards and information supplied by pipe manufacturers. Due to occasional

changes in outside diameters by pipe manufacturers, the pipe O.D. or circumference should always be checked and furnished when ordering fittings.

Nominal Pipe Size (Inches)	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6	8	10	12	14	15	16	18	20	24	30
Copper Tubing (C.T.S.)	.63	.88	1.13	1.38	1.63	2.13	2.63	3.13	4.13	5.13	6.13										
Steel Pipe--Schedule 40	.84	1.05	1.32	1.66	1.90	2.38	2.88	3.50	4.50	5.56	6.63	8.63	10.75	12.75	14.00		16.00	18.00	20.00	24.00	30.00
Plastic Pipe--(P.V.C.)--STD.			1.32		1.90	2.38	2.88	3.50	4.50		6.63	8.63	10.75	12.75							
Plastic Pipe--(P.V.C.)--C.I. Size									4.80		6.90	9.05	11.10	13.20							
PVC Sewer Pipe									4.22	5.64	6.28	8.40	10.50	12.50		15.30		18.70		24.80	
Polyethylene Pipe I.P.S.*		1.05	1.32	1.66	1.90	2.38		3.50	4.50	5.56	6.63	8.63	10.75	12.75	14.00		16.00	18.00	20.00	24.00	30.00
Polyethylene Pipe D.I. Size									4.80		6.90	9.05	11.10	13.20			17.40	19.50	21.60	25.80	
Plastic Irrigation Pipe (PIP)									4.13		6.14	8.16	10.20	12.24		15.30					

*P.E. Tubing can be C.T.S.

Cast Iron Pipe

Class 100-250 AWWA Centrifugally Cast								3.96	4.80		6.90	9.05	11.10	13.20	15.30		17.40	19.50	21.60	25.80	32.00
Class A AWWA Pit Cast						2.50		3.80	4.80		6.90	9.05	11.10	13.20	15.30		17.40	19.50	21.60	25.80	31.74
Class B AWWA Pit Cast								3.96	5.00		7.10	9.05	11.10	13.20	15.30		17.40	19.50	21.60	25.80	32.00
Class C-D AWWA Pit Cast								3.96	5.00		7.10	9.30	11.40	13.50	15.65		17.80	19.92	22.06	26.32	32.40 32.74
Soil Pipe						2.30		3.30	4.30	5.30	6.30	8.40	10.50	12.50		15.62					

Asbestos-Cement Pipe

Class 100

Machined End								3.74	4.64		6.91	9.11	11.24*	13.44*	15.07		17.15	19.90	22.12	26.48	33.12
Fluid-Tite Rough Barrel								3.93	5.05		7.16	9.32	11.46	13.70	15.36		17.50				
Flintite Rough Barrel								3.94	4.90		7.13	9.33	11.30	13.42	15.45		17.60				
Ring-Tite Rough Barrel								3.95	4.92		7.19	9.39	11.47	13.74	15.51		17.65	20.44	22.68	27.12	33.80
Permafex Rough Barrel									4.84		7.15	9.35	11.47	13.74	15.55		17.55				
Minimum Standard Rough Barrel									4.79		7.05	9.22	11.25	13.37	15.36		17.50	20.44	22.50	27.17	
Maximum Standard Rough Barrel									5.26		7.40	9.57	11.77	14.04	15.80		17.94				

Class 150

Machined End								3.84	4.81		6.91	9.11	11.66	13.92	16.22		18.46	20.94	23.28	27.96	35.00
Fluid-Tite Rough Barrel								4.03	5.14		7.12	9.32	11.85	14.11	16.41		18.65				
Flintite Rough Barrel								4.04	5.01		7.13	9.33	11.88	14.14	16.48		18.72				
Ring-Tite Rough Barrel								4.13	5.07		7.17	9.37	11.92	14.18	16.48		18.72	21.30	23.64	28.32	35.42
Permafex Rough Barrel									5.00		7.20	9.40	11.92	14.20	16.50		18.75				
Minimum Standard Rough Barrel									4.97		7.07	9.27	11.82	14.08	16.38		18.62	21.20	23.54	28.22	
Maximum Standard Rough Barrel									5.32		7.37	9.62	12.12	14.38	16.73		18.97				

Class 200

Machined End								3.84	4.81		6.91	9.11	11.66	13.92	16.22		18.46	22.18	24.66	29.62	37.06
Fluid-Tite Rough Barrel								4.18	5.32		7.36	9.46	11.88	14.11	16.44		18.74				
Flintite Rough Barrel								4.17	5.32		7.26	9.44	11.88	14.14	16.53		18.84				
Ring-Tite Rough Barrel								4.17	5.33		7.32	9.50	11.92	14.18	16.55		18.90	22.54	25.02	29.98	37.48
Permafex Rough Barrel									5.32		7.26	9.50	11.95	14.20	16.55		18.90				
Minimum Standard Rough Barrel									5.22		7.26	9.39	11.77	14.03	16.44		18.74				
Maximum Standard Rough Barrel									5.57		7.60	9.79	12.12	14.38	16.88		19.19				
	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6	8	10	12	14	15	16	18	20	24	30

*Flintite M.E. is 10.89 for 10" and 12.99 for 12" sizes.

Please refer to the manufacturers data supplied at time of pipe installation or measure the pipe O.D. or circumference prior to the ordering of fittings.

Certain types of pipe may require special preparation prior to installation of these products. Please contact Smith-Blair® engineers concerning any application questions.

Smith-Blair, Inc.

P. O. Box 5337

Texarkana, Texas 75505

1-800-643-9705 870-773-5127

1-800-648-6792 870-773-5212

www.smith-blair.com

Invensys

An Invensys company