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Home (<http://www.tps.us/>) > Pipe Outer Diameter Chart

Pipe Outer Diameter Chart

This chart is based on the most recent pipe standards and information supplied by pipe manufacturers. Always check the pipe O.D. or circumference before ordering pipe joining and repair products. Total Piping Solutions, Inc. is happy to help you choose the product that best suits your needs for any pipe size. Pipe O.D. is specified in inches.

Pipe Type	Nominal Pipe Size (inches)																				
Copper, Steel & Plastic Pipe	1/2	3/4	1	1¼	1½	2	2½	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										
Schedule 40 Steel Pipe	.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
PVC-STD			1.32		1.90	2.38	2.88	3.50	4.50		6.63	8.63	10.75	12.75							
PVC-C.I. Size									4.80		6.90	9.05	11.10	13.20							
Polyethylene Pipe IPS		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 DI Size									4.80		6.90	9.05	11.10	13.20			17.40	19.50	21.60	25.80	

<i>Cast Iron Pipe</i>	1/2	3/4	1	1¼	1½	2	2½	3	4	5	6	8	10	12	14	15	16	18	20	24	30
Class 100-250 AWWA								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 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
Class 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	32.74
<i>Class 100 Asbestos Cement Pipe</i>	1/2	3/4	1	1¼	1½	2	2½	3	4	5	6	8	10	12	14	15	16	18	20	24	30
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 M.E.								3.74	4.64		6.91	9.11	10.89	12.99	15.07		17.15	19.90	22.12	26.48	33.12
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	20.44	22.50	27.17	
<i>Class 150 Asbestos Cement Pipe</i>	1/2	3/4	1	1¼	1½	2	2½	3	4	5	6	8	10	12	14	15	16	18	20	24	30
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	21.20	23.54	28.22	

<i>Class 200 Asbestos Cement Pipe</i>	1/2	3/4	1	1¼	1½	2	2½	3	4	5	6	8	10	12	14	15	16	18	20	24	30
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
Permaflex 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				
<i>Sewer Pipe</i>	1/2	3/4	1	1¼	1½	2	2½	3	4	5	6	8	10	12	14	15	16	18	20	24	30
A/C Sewer Class 1500									4.81		6.92	9.02	11.12	13.22	15.30	16.34	17.38				
A/C Sewer Class 2400									4.87		6.98	9.04	11.16	13.26	15.36	16.42	17.46	19.54	21.66	25.78	
A/C Sewer Class 3300									5.05		7.14	9.22	11.36	13.50	15.46	16.66	17.72	19.82	21.88	26.10	32.34
A/C Sewer Class 4000													11.50	13.64	15.78	16.84	17.90	20.02	22.10	26.32	32.60
A/C Sewer Class 5000													11.70	13.86	16.00	17.06	18.14	20.36	22.32	26.60	32.90
Asbestos Cement ACME									4.62	6.66		8.96	11.05	13.15	15.23	16.11	17.31	19.39	32.45	25.67	32.13
PVC Plastic SDR 35									4.22		6.28	8.40	10.50	12.50							
PVC Plastic SDR 41									4.22		6.28	8.16	10.20	12.24		15.30		18.70		24.80	
Cast Iron Soil Pipe (No Hub)									4.38		6.30	8.38									
Cast Iron Soil Pipe (Service Weight)									4.30		6.30	8.38	10.50	12.50							
Cast Iron Soil Pipe (Extra Heavy)									4.62		6.62	8.75	10.88	12.88							
Clay Minimum									5.00		7.19	9.25	11.50	13.75		17.19		20.65		27.5	34.38
Clay Maximum									5.38		7.56	9.75	12.00	14.31		17.81		21.44		28.50	35.63
Concrete (Average)									6.00		8.00	10.25	12.75	15.50		18.75		22.00		29.00	35.50

<i>Irrigation Pipe</i>	1/2	3/4	1	1¼	1½	2	2½	3	4	5	6	8	10	12	14	15	16	18	20	24	30
Asbestos Cement Irrigation Type 5									4.74		6.70	9.02	11.12	13.22							
Asbestos Cement Irrigation Type 15									4.86		6.81	9.04	11.16	13.26							
Asbestos Cement Irrigation Type 25									4.97		7.10	9.27	11.31	13.74							
Plastic Irrigation Pipe (PIP)									4.13		6.14	8.16	10.20	12.24		15.30		18.70	22.05	24.80	
Pipe Type	1/2	3/4	1	1¼	1½	2	2½	3	4	5	6	8	10	12	14	15	16	18	20	24	30
Nominal Pipe Size (inches)																					

NEWS & UPDATES

Why Cut, Couple or Sleeve a Repair?

(<http://www.tps.us/2017/03/13/cut-couple-sleeve-repair/>)

Leaking bell joints account for up to 30% of all repairs. Why cut the line, why have to disinfect, eliminate sampling, ...



Encapsulation and Repair of Split Bell Joints or Couplings on HDPE and PVC Joints

Repair the Joint Under Pressure, Eliminate Open Cut Repair

(<http://www.tps.us/2016/10/16/repair-joint-pressure-eliminate-open-cut-repair/>)

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