

UPVC PRESSURE PIPES



PVC PRESSURE PIPES

UPVC PRESSURE PIPES ARE MANUFACTURED AS PER THE FOLLOWING DIMENSIONS:

Metric size Pressure Pipes: ISO 4422-2:1996

Superseded by ISO 1452-2/BS EN 1452:2009

Nominal Outside Diameter	Nominal Wall Thickness (Minimum)					
	S 20 (SDR 41)	S 16 (SDR 33)	S 12.5 (SDR 26)	S 10 (SDR 21)	S 8 (SDR 17)	S 6.3 (SDR 13.6)
Nominal pressure PN Base on service (design) coefficient C=2.5 ^a						
20 mm	-	-	-	-	-	1.5
25 mm	-	-	-	-	-	1.9
32 mm	-	-	-	1.6	-	2.4
40 mm	-	1.5	-	1.9	-	3.0
50 mm	-	1.6	-	2.4	-	3.7
63 mm	-	2.0	-	3.0	-	4.7
75 mm	-	2.3	-	3.6	-	5.6
90 mm	-	2.8	-	4.3	-	6.7

Nominal pressure PN Base on service (design) coefficient C=2.0 ^a						
	PN 6		PN 10		PN 16	
110 mm	2.7	-	4.2	-	6.6	-
125 mm	3.1	-	4.8	-	7.4	-
140 mm	3.5	-	5.4	-	8.3	-
160 mm	4.0	-	6.2	-	9.5	-
180 mm	4.4	-	6.9	-	10.7	-
200 mm	4.9	-	7.7	-	11.9	-
225 mm	5.5	-	8.6	-	13.4	-
250 mm	6.2	-	9.6	-	14.8	-
280 mm	6.9	-	10.7	-	16.6	-
315 mm	7.7	-	12.1	-	18.7	-
355 mm	8.7	-	13.6	-	21.1	-
400 mm	9.8	-	15.3	-	23.7	-

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Inch size Pressure Pipes: BS EN ISO 1452-2 : 2009

Size	Mean Outside Dia.		Wall Thickness		Wall Thickness		Wall Thickness	
			PN-15(CLASS-E)		PN-12(CLASS-D)		PN-9(CLASS-C)	
	Min	Max	Min	Max	Min	Max	Min	Max
½"	21.2	21.5	1.7	2.1	-	-	-	-
¾"	26.6	26.9	1.9	2.5	-	-	-	-
1"	33.4	33.7	2.2	2.8	-	-	-	-
1 ¼"	42.1	42.4	2.7	3.3	2.2	2.7	-	-
1 ½"	48.1	48.4	3.1	3.7	2.5	3.0	-	-
2"	60.2	60.5	3.9	4.5	3.1	3.7	2.5	3.0
3"	88.7	89.1	5.7	6.6	4.6	5.3	3.5	4.1
4"	114.1	114.5	7.3	8.4	6.0	6.9	4.5	5.2
6"	168	168.5	10.8	12.5	8.8	10.2	6.6	7.6
8"	218.8	219.4	12.6	14.5	10.3	11.9	7.8	9.0
10"	272.6	273.4	15.7	18.1	12.8	14.8	9.7	11.2
12"	323.4	324.3	18.7	21.6	15.2	17.5	11.5	13.3

UPVC PRESSURE PIPES ARE MANUFACTURED AS PER THE FOLLOWING DIMENSIONS:
Inch size Pressure Pipes: BS 3505:1986 For Cold Potable Water

Size	Mean Outside Dia.		Wall Thickness		Wall Thickness		Wall Thickness	
			PN-15(CLASS-E)		PN-12(CLASS-D)		PN-9(CLASS-C)	
	Min	Max	Min	Max	Min	Max	Min	Max
½"	21.2	21.5	1.7	2.1	-	-	-	-
¾"	26.6	26.9	1.9	2.5	-	-	-	-
1"	33.4	33.7	2.2	2.8	-	-	-	-
1 ¼"	42.1	42.4	2.7	3.3	2.2	2.7	-	-
1 ½"	48.1	48.4	3.1	3.7	2.5	3.0	-	-
2"	60.2	60.5	3.9	4.5	3.1	3.7	2.5	3.0
3"	88.7	89.1	5.7	6.6	4.6	5.3	3.5	4.1
4"	114.1	114.5	7.3	8.4	6.0	6.9	4.5	5.2
6"	168	168.5	10.8	12.5	8.8	10.2	6.6	7.6
8"	218.8	219.4	12.6	14.5	10.3	11.9	7.8	9.0
10"	272.6	273.4	15.7	18.1	12.8	14.8	9.7	11.2
12"	323.4	324.3	18.7	21.6	15.2	17.5	11.5	13.3

Pressure Rating for Working Pressure at 20°C

Class E	: 15.0 bar	217.0 lbf/in	500ft head
Class D	: 12.0 bar	173.0 lbf/in	400ft head
Class C	: 9.0 bar	130.0 lbf/in	300ft head

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UPVC PRESSURE PIPES ARE MANUFACTURED AS PER THE FOLLOWING DIMENSIONS:
Metric size Pressure Pipes: DIN 8061/62 : 2009 Equivalent to SASO 14-15 : 1998

Size	Mean Outside Dia.		Mean Wall Thickness							
			PN-16(CLASS-16)		PN-10(CLASS-10)		PN-6(CLASS-6)		PN-4(CLASS-4)	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
20 mm	20.0	20.2	1.5	1.9	-	-	-	-	-	-
25 mm	25.0	25.2	1.9	2.3	1.5	1.8	-	-	-	-
32 mm	32.0	32.2	2.4	2.9	1.8	1.9	-	-	-	-
40 mm	40.0	40.2	3.0	3.5	1.9	2.3	1.8	2.1	-	-
50 mm	50.0	50.2	3.7	4.3	2.4	2.9	1.8	2.2	-	-
63 mm	63.0	63.2	4.7	5.4	3.0	3.4	1.9	2.3	-	-
75 mm	75.0	75.3	5.6	6.4	3.6	4.2	2.2	2.6	1.8	2.2
90 mm	90.0	90.3	6.7	7.6	4.3	5.1	2.7	3.2	1.8	2.3
110 mm	110.0	110.3	8.2	9.3	5.3	5.9	3.2	3.8	2.2	2.6
125 mm	125.0	125.3	9.3	10.3	6.0	6.8	3.7	4.0	2.5	2.9
140 mm	140.0	140.4	10.4	11.8	6.7	7.5	4.1	4.5	2.8	3.3
160 mm	160.0	160.4	11.9	11.3	7.7	8.5	4.7	5.2	3.2	3.8
180 mm	180.0	180.4	13.4	15.0	8.6	9.4	5.3	5.7	3.6	4.2
200 mm	200.0	200.4	14.9	16.6	9.6	10.7	5.9	6.7	4.0	4.4
225 mm	225.0	225.5	16.7	18.6	10.8	11.6	6.6	7.2	4.5	4.9
250 mm	250.0	250.5	18.6	20.7	11.9	13.3	7.3	8.0	4.9	5.7
280 mm	280.0	280.5	20.8	23.1	13.4	14.9	8.2	9.0	5.5	6.3
315 mm	315.0	315.6	23.4	26.0	15.0	16.7	9.2	10.4	6.2	7.1

PN: Working pressure at 20°C

Suitable for water supply, sewerage and ducting applications

The standard length is 6 meters or as required; Standard Colour : Grey or as required

PVC PRESSURE PIPES

UPVC PRESSURE PIPES ARE MANUFACTURED AS PER THE FOLLOWING DIMENSIONS:

Inch size Pressure Pipes: BS 3506:1969 For Industrial Uses

Nominal Size	Mean Outside Dia.		Nominal Wall Thickness									
			PN-15(CLASS-E)		PN-12(CLASS-D)		PN-9(CLASS-C)		PN-6(CLASS-B)		Non Pressure (CLASS-O)	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
½"	21.2	21.5	1.7	2.1	-	-	-	-	-	-	-	-
¾"	26.6	26.9	1.9	2.5	-	-	-	-	-	-	-	-
1"	33.4	33.7	2.2	2.8	-	-	-	-	-	-	-	-
1 ¼"	42.1	42.4	2.7	3.3	2.2	2.7	-	-	-	-	1.8	2.2
1 ½"	48.1	48.4	3.1	3.7	2.5	3.0	-	-	-	-	1.8	2.2
2"	60.2	60.5	3.9	4.5	3.1	3.7	2.5	3.0	-	-	1.8	2.2
3"	88.7	89.1	5.7	6.6	4.6	5.3	3.5	4.1	2.9	3.4	1.8	2.2
4"	114.1	114.5	7.3	8.4	6.0	6.9	4.5	5.2	3.4	4.0	2.3	3.1
6"	168	168.5	10.8	12.5	8.8	10.2	6.6	7.6	4.5	5.2	3.1	3.7
8"	218.8	219.4	12.6	14.5	10.3	11.9	7.8	9.0	5.3	6.1	3.1	3.7
10"	272.6	273.4	15.7	18.1	12.8	14.8	9.7	11.2	6.6	7.6	3.1	3.7
12"	323.4	324.3	18.7	21.6	15.2	17.5	11.5	13.3	7.8	9.0	3.1	3.7

1bar = 10^2 N/m^2 + Pipes to these nominal sizes are not normally available from stock.

Note 1: The pressure given at the top of the columns for classes B, C, D and E are the maximum sustained working pressure for which the pipe are suitable and are based on water temperature of 20°C.

BS 3506 pipes are suitable for water supply, sewerage and ducting applications.

UPVC PRESSURE PIPES ARE MANUFACTURED AS PER THE FOLLOWING DIMENSIONS:

Inch size Pressure Pipes: ASTM D 1785 SCH 40/SCH 80

Nominal Size Inch	Outside Dia. (mm)		SCH 40				SCH 80				Pressure Rating (BAR)
			Wall Thickness (mm)		Pressure Rating (BAR)		SCH 80				
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	
½"	21.24	21.44	2.77	3.28	41.40	41.40	3.73	4.24	58.60	58.60	
¾"	26.57	26.77	2.87	3.38	33.10	33.10	3.91	4.42	47.60	47.60	
1"	33.27	33.53	3.38	3.89	31.00	31.00	4.55	5.08	43.40	43.40	
1 ¼"	42.03	42.29	3.56	4.07	25.50	25.50	4.85	5.43	35.90	35.90	
1 ½"	48.11	48.41	3.68	4.19	22.80	22.80	5.08	5.69	32.40	32.40	
2"	60.17	60.47	3.91	4.42	19.30	19.30	5.54	6.20	29.0	29.0	
3"	88.70	89.10	5.49	6.15	17.90	17.90	7.62	8.53	25.50	25.50	
4"	114.07	114.53	6.02	6.73	15.20	15.20	8.56	9.58	22.10	22.10	
6"	168.00	168.56	7.11	7.97	12.40	12.40	10.97	12.29	19.30	19.30	
8"	218.70	219.46	8.18	9.17	11.00	11.00	12.70	14.22	17.20	17.20	
10"	272.67	273.43	9.27	10.39	9.70	9.70	15.06	16.87	15.90	15.90	
12"	323.47	324.23	10.31	11.55	9.00	9.00	17.45	19.53	15.90	15.90	

Pressure rating based on water at 23°C for unthreaded pipes

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Inch size Pressure Pipes: ASTM D 2241

Nominal Size inch	Mean Outside Dia.		Mean Wall Thickness													
			PN-4.3 SDR 64		PN-6.9 SDR 41		PN-8.6 SDR 32.5		PN-11 SDR 26		PN-13.8 SDR 21		PN-17.2 SDR 17		PN 21.7 SDR 13.5	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
½"	21.24	21.44	-	-	-	-	-	-	-	-	-	-	-	-	1.57	2.08
¾"	26.57	26.77	-	-	-	-	-	-	-	-	1.52	2.03	1.57	2.08	1.98	2.48
1"	33.27	33.53	-	-	-	-	-	-	1.52	2.03	1.60	2.10	1.95	2.46	2.46	2.97
1¼"	42.03	42.29	-	-	-	-	1.52	2.03	1.62	2.13	2.01	2.51	2.48	2.99	3.12	3.67
1½"	48.11	48.41	-	-	-	-	1.52	2.03	1.85	2.36	2.28	2.79	2.84	3.53	3.58	4.08
2"	60.17	60.47	-	-	-	-	1.85	2.36	2.31	2.81	2.87	3.38	3.55	4.06	4.47	4.97
3"	88.70	89.10	-	-	2.16	2.67	2.74	3.25	3.42	3.93	4.24	4.75	5.23	5.86	6.57	7.36
4"	114.07	114.53	1.78	2.29	2.80	3.30	3.50	4.01	4.39	4.90	5.43	6.09	6.73	7.54	8.45	9.47
6"	168.00	168.56	2.64	3.15	4.12	4.62	5.18	5.79	6.47	7.26	8.02	8.99	9.90	11.10	10.46	11.70
8"	218.70	219.46	3.43	3.93	5.33	5.96	6.73	7.54	8.43	9.44	10.41	11.65	12.90	14.45	12.47	13.97
10"	272.67	273.43	4.26	4.77	6.65	7.44	8.40	9.42	10.49	11.76	12.97	14.53	16.05	17.98		
12"	323.47	324.23	5.05	5.64	7.90	8.85	9.95	11.15	12.44	13.94	15.39	17.24	19.05	21.33		



CROWN PLASTIC

مصنع كراون للتايبب البلاستيكية زمزم
CROWN PLASTIC PIPES FACTORY L.L.C

PVC | UPVC | PPR | PEX | HDPE

P.O. Box : 63576, U.A.E | Tel : 00971 6 543 6781 | Fax : 00971 6 543 6798
Email : info@crownplasticuae.com | Website : www.crownplasticuae.com