



## Seamless Pipe Schedule Chart



RISING STEEL INDUSTRIES

### Standards

There are different standards to describe the steel pipe size, OD and wall thickness. Mainly are ASME B 36.10, ASME B 36.19.

In ASME B36.10M, Pipe schedule identified as Standard (STD), Ex-Standard (XS), or Double Extra Strong(XSS); Or with Schedule No. 5, 10, 20, 30, 40, 80, 120, 160

This dimension standard mostly is same with ASTM B36.10M. Wherever the different part is:

- a. For NPS 14 to NPS 22 (DN 350-550), schedule 10S;
- b. NPS 12 of Schedule 40S
- c. NPS 10 and 12 of schedule 80S

## View SMLS Pipe Dimensions in mm and Price List ex Mumbai



<b>NPS (DN)</b>	<b>Inner Dia</b>	<b>Outer Dia inch (millimeter)</b>	<b>Wall Thickness inch (millimeter)</b>	<b>Weight lb/feet (kg/m)</b>
1/8 (6)	5S	0.405 (10.3)	Note 1	...
1/8 (6)	10S	0.405 (10.3)	0.049 (1.24) Note 1	0.19 (0.28)
1/8 (6)	40S	0.405 (10.3)	0.068 (1.73)	0.24 (0.37)
1/8 (6)	80S	0.405 (10.3)	0.095 (2.41)	0.31 (0.47)
1/4 (8)	5S	0.54 (13.7)	Note 1	...
1/4 (8)	10S	0.54 (13.7)	0.065 (1.65) Note 1	0.33 (0.49)
1/4 (8)	40S	0.54 (13.7)	0.088 (2.24)	0.43 (0.63)
1/4 (8)	80S	0.54 (13.7)	0.119 (3.02)	0.54 (0.8)
3/8 (10)	5S	0.675 (17.1)	Note 1	...
3/8 (10)	10S	0.675 (17.1)	0.065 (1.65) Note 1	0.42 (0.63)

3/8 (10)	40S	0.675 (17.1)	0.091 (2.31)	0.57 (0.84)
3/8 (10)	80S	0.675 (17.1)	0.126 (3.2)	0.74 (1.1)
1/2 (15)	5S	0.84 (21.3)	0.065 (1.65) Note 1	0.54 (0.8)
1/2 (15)	10S	0.84 (21.3)	0.083 (2.11) Note 1	0.67 (1.0)
1/2 (15)	40S	0.84 (21.3)	0.109 (2.77)	0.85 (1.27)
1/2 (15)	80S	0.84 (21.3)	0.147 (3.73)	1.09 (1.62)
3/4 (20)	5S	1.05 (26.7)	0.065 (1.65) Note 1	0.68 (1.02)
3/4 (20)	10S	1.05 (26.7)	0.083 (2.11) Note 1	0.86 (1.28)
3/4 (20)	40S	1.05 (26.7)	0.113 (2.87)	1.13 (1.69)
3/4 (20)	80S	1.05 (26.7)	0.154 (3.91)	1.48 (2.2)
1 (25)	5S	1.315 (33.4)	0.065 (1.65) Note 1	0.87 (1.29)
1 (25)	10S	1.315 (33.4)	0.109 (2.77) Note 1	1.41 (2.09)
1 (25)	40S	1.315 (33.4)	0.133 (3.38)	1.68 (2.5)
1 (25)	80S	1.315 (33.4)	0.179 (4.55)	2.17 (3.24)
1.1/4 (32)	5S	1.66 (42.2)	0.065 (1.65) Note 1	1.11 (1.65)
1.1/4 (32)	10S	1.66 (42.2)	0.109 (2.77) Note 1	1.81 (2.69)
1.1/4 (32)	40S	1.66 (42.2)	0.14 (3.56)	2.27 (3.39)

1.1/4 (32)	80S	1.66 (42.2)	0.191 (4.85)	3.0 (4.47)
1.1/2 (40)	5S	1.9 (48.3)	0.065 (1.65) Note 1	1.28 (1.9)
1.1/2 (40)	10S	1.9 (48.3)	0.109 (2.77) Note 1	2.09 (3.11)
1.1/2 (40)	40S	1.9 (48.3)	0.145 (3.68)	2.72 (4.05)
1.1/2 (40)	80S	1.9 (48.3)	0.2 (5.08)	3.63 (5.41)
2 (50)	5S	2.375 (60.3)	0.065 (1.65) Note 1	1.61 (2.39)
2 (50)	10S	2.375 (60.3)	0.109 (2.77) Note 1	2.64 (3.93)
2 (50)	40S	2.375 (60.3)	0.154 (3.91)	3.66 (5.44)
2 (50)	80S	2.375 (60.3)	0.218 (5.54)	5.03 (7.48)
2.1/2 (65)	5S	2.875 (73)	0.083 (2.11) Note 1	2.48 (3.69)
2.1/2 (65)	10S	2.875 (73)	0.12 (3.05) Note 1	3.53 (5.26)
2.1/2 (65)	40S	2.875 (73)	0.203 (5.16)	5.8 (8.63)
2.1/2 (65)	80S	2.875 (73)	0.276 (7.01)	7.67 (11.41)
3 (80)	5S	3.5 (88.9)	0.083 (2.11) Note 1	3.03 (4.52)
3 (80)	10S	3.5 (88.9)	0.12 (3.05) Note 1	4.34 (6.46)
3 (80)	40S	3.5 (88.9)	0.216 (5.49)	7.58 (11.29)
3 (80)	80S	3.5 (88.9)	0.3 (7.62)	10.26 (15.27)

3.1/2 (90)	5S	4.0 (101.6)	0.083 (2.11) Note 1	3.48 (5.18)
3.1/2 (90)	10S	4.0 (101.6)	0.12 (3.05) Note 1	4.98 (7.41)
3.1/2 (90)	40S	4.0 (101.6)	0.226 (5.74)	9.12 (13.57)
3.1/2 (90)	80S	4.0 (101.6)	0.318 (8.08)	12.52 (18.64)
4 (100)	5S	4.5 (114.3)	0.083 (2.11) Note 1	3.92 (5.84)
4 (100)	10S	4.5 (114.3)	0.12 (3.05) Note 1	5.62 (8.37)
4 (100)	40S	4.5 (114.3)	0.237 (6.02)	10.8 (16.08)
4 (100)	80S	4.5 (114.3)	0.337 (8.56)	15.0 (22.32)
5 (125)	5S	5.563 (141.3)	0.109 (2.77) Note 1	6.36 (9.46)
5 (125)	10S	5.563 (141.3)	0.134 (3.4) Note 1	7.78 (11.56)
5 (125)	40S	5.563 (141.3)	0.258 (6.55)	14.63 (21.77)
5 (125)	80S	5.563 (141.3)	0.375 (9.53)	20.8 (30.97)
6 (150)	5S	6.625 (168.3)	0.109 (2.77) Note 1	7.59 (11.31)
6 (150)	10S	6.625 (168.3)	0.134 (3.4) Note 1	9.3 (13.83)
6 (150)	40S	6.625 (168.3)	0.28 (7.11)	18.99 (28.26)
6 (150)	80S	6.625 (168.3)	0.432 (10.97)	28.6 (42.56)

8 (200)	5S	8.625 (219.1)	0.109 (2.77) Note 1	9.92 (14.78)
8 (200)	10S	8.625 (219.1)	0.148 (3.76) Note 1	13.41 (19.97)
8 (200)	40S	8.625 (219.1)	0.322 (8.18)	28.58 (42.55)
8 (200)	80S	8.625 (219.1)	0.5 (12.7)	43.43 (64.64)
10 (250)	5S	10.75 (273)	0.134 (3.4) Note 1	15.21 (22.61)
10 (250)	10S	10.75 (273)	0.165 (4.19) Note 1	18.67 (27.78)
10 (250)	40S	10.75 (273)	0.365 (9.27)	40.52 (60.29)
10 (250)	80S	10.75 (273)	0.5 (12.7)	54.79 (81.53)
12 (300)	5S	12.75 (323.8)	0.156 (3.96) Note 1	21.0 (31.24)
12 (300)	10S	12.75 (323.8)	0.18 (4.57) Note 1	24.19 (35.98)
12 (300)	40S	12.75 (323.8)	0.375 (9.53)	49.61 (73.86)
12 (300)	80S	12.75 (323.8)	0.5 (12.7)	65.48 (97.44)
14 (350)	5S	14.0 (355.6)	0.156 (3.96) Note 1	23.09 (34.34)
14 (350)	10S	14.0 (355.6)	0.188 (4.78) Notes (1),(2)	27.76 (41.36)
14 (350)	40S	14.0 (355.6)	0.375 (9.53)	54.62 (81.33)

14 (350)	80S	14.0 (355.6)	0.5 (12.7)	72.16 (107.4)
16 (400)	5S	16.0 (406.4)	0.165 (4.19) Note 1	27.93 (41.56)
16 (400)	10S	16.0 (406.4)	0.188 (4.78) Notes (1),(2)	31.78 (47.34)
16 (400)	40S	16.0 (406.4)	0.375 (9.53)	62.64 (93.27)
16 (400)	80S	16.0 (406.4)	0.5 (12.7)	82.85 (123.31)
18 (450)	5S	18.0 (457)	0.165 (4.19) Note 1	31.46 (46.79)
18 (450)	10S	18.0 (457)	0.188 (4.78) Notes (1),(2)	35.8 (53.31)
18 (450)	40S	18.0 (457)	0.375 (9.53)	70.65 (...)
18 (450)	80S	18.0 (457)	0.5 (12.7)	93.54 (...)
20 (500)	5S	20.0 (508)	0.188 (4.78) Note 1	39.82 (59.32)
20 (500)	10S	20.0 (508)	0.218 (5.54) Notes (1),(2)	46.1 (68.65)
20 (500)	40S	20.0 (508)	0.375 (9.53)	78.67 (117.15)
20 (500)	80S	20.0 (508)	0.5 (12.7)	104.23 (155.13)

22 (550)	5S	22.0 (559)	0.188 (4.78) Note 1	43.84 (65.33)
22 (550)	10S	22.0 (559)	0.218 (5.54) Notes (1),(2)	50.76 (75.62)
22 (550)	40S	22.0 (559)	...	...
22 (550)	80S	22.0 (559)	...	...
24 (600)	5S	24.0 (610)	0.218 (5.54) Note 1	55.42 (82.58)

## MS Seamless Schedule 40 Pipe weight chart, dimensions, wall thickness and Sizes in mm

### Schedule 40 Stainless Steel Pipes Dimension

Nominal size [inches]	Outside diameter [inches]	Outside diameter [mm]	Wall thickness [inches]	Wall thickness [mm]	Weight [lb/ft]	Weight [kg/m]
3/4 Inches	1.050 Inches	26.7 MM	0.065 Inches	1.65 MM	0.69 lb/ft	1.03 kg/m
1 Inches	1.315 Inches	33.4 MM	0.065 Inches	1.65 MM	0.87 lb/ft	1.30 kg/m
1 1/4 Inches	1.660 Inches	42.2 MM	0.065 Inches	1.65 MM	1.12 lb/ft	1.66 kg/m
1 1/2 Inches	1.900 Inches	48.3 MM	0.065 Inches	1.65 MM	1.28 lb/ft	1.91 kg/m
2 Inches	2.375 Inches	60.3 MM	0.065 Inches	1.65 MM	1.61 lb/ft	2.40 kg/m
2 1/2 Inches	2.875 Inches	73.0 MM	0.083 Inches	2.11 MM	2.49 lb/ft	3.71 kg/m
3 Inches	3.500 Inches	88.9 MM	0.083 Inches	2.11 MM	3.05 lb/ft	4.54 kg/m
3 1/2 Inches	4.000 Inches	101.6 MM	0.083 Inches	2.11 MM	3.50 lb/ft	5.21 kg/m
4 Inches	4.500 Inches	114.3 MM	0.083 Inches	2.11 MM	3.95 lb/ft	5.88 kg/m
5 Inches	5.563 Inches	141.3 MM	0.109 Inches	2.77 MM	6.40 lb/ft	9.52 kg/m
6 Inches	6.625 Inches	168.3 MM	0.109 Inches	2.77 MM	7.65 lb/ft	11.38 kg/m
8 Inches	8.625 Inches	219.1 MM	0.109 Inches	2.77 MM	9.99 lb/ft	14.87 kg/m
10 Inches	10.750 Inches	273.1 MM	0.134 Inches	3.4 MM	15.29 lb/ft	22.76 kg/m



12 Inches	12.750 Inches	323.9 MM	0.156 Inches	3.96 MM	21.13 lb/ft	31.44 kg/m
14 Inches	14.000 Inches	355.6 MM	0.156 Inches	3.96 MM	23.22 lb/ft	34.56 kg/m
16 Inches	16.000 Inches	406.4 MM	0.165 Inches	4.19 MM	28.11 lb/ft	41.83 kg/m
18 Inches	18.000 Inches	457.0 MM	0.165 Inches	4.19 MM	31.64 lb/ft	47.09 kg/m
20 Inches	20.000 Inches	508.0 MM	0.188 Inches	4.78 MM	40.12 lb/ft	59.70 kg/m
22 Inches	22.000 Inches	559.0 MM	0.188 Inches	4.78 MM	44.18 lb/ft	65.75 kg/m
24 Inches	24.000 Inches	610.0 MM	0.218 Inches	5.54 MM	55.85 lb/ft	83.11 kg/m
30 Inches	30.000 Inches	762.0 MM	0.250 Inches	6.35 MM	80.02 lb/ft	119.09 kg/m

### SCH 40 Steel Pipe Thickness in mm

Nominal size [inches]	Outside diameter [mm]	Wall thickness [mm]	Weight [kg/m]
1/8	10.3	1.73	0.37
1/4	13.7	2.24	0.84
1/2	21.3	2.77	1.27
3/4	26.7	2.87	1.69
1	33.4	3.38	2.50
1 1/4	42.2	3.56	3.39
1 1/2	48.3	3.68	4.05
2	60.3	3.91	5.44
2 1/2	73.0	5.16	8.63
3	88.9	5.49	11.29
3 1/2	101.6	5.74	13.57
4	114.3	6.02	16.07
5	141.3	6.55	21.77

6	168.3	7.11	28.26
8	219.1	8.18	42.55
10	273.0	9.27	60.31
12	323.8	10.31	79.73
14	355.6	11.13	94.55
16	406.4	12.70	123.30
18	457.0	14.27	155.80
20	508.0	15.09	183.42
24	610.0	17.48	255.41
32	813.0	17.48	342.91

### Schedule 40 Nominal Pipe Size

NPS	1/2	3/4	1	1.1/4	1.1/2	2	2.1/2	3	3.1/2	4
DN	15	20	25	32	40	50	65	80	90	100

**Manufacturer and supplier of schedule 80/ 20/ 40 seamless pipe in Stainless Steel, ASTM A106 Grade B, A53 Grb, A333 Grade 6, Aluminum, API 5L Gr. B Carbon Steel and Gi material**

### Schedule 80 Pipe Weight Chart

NPS	OUTSIDE DIAMETER(IN)	INSIDE DIAMETER(IN)	WALL THICKNESS(IN)	WEIGHT (LB/FT)
1/8	0.405"	0.215"	0.095"	0.32 lb/ft
1/4	0.540"	0.302"	0.119"	0.54 lb/ft
3/8	0.675"	0.423"	0.126"	0.74 lb/ft
1/2	0.840"	0.546"	0.147"	1.09 lb/ft
3/4	1.050"	0.742"	0.154"	1.47 lb/ft
1	1.315"	0.957"	0.179"	2.17 lb/ft
1-1/4	1.660"	1.278"	0.191"	3.00 lb/ft
1-1/2	1.900"	1.500"	0.200"	3.63 lb/ft
2	2.375"	1.939"	0.218"	5.02 lb/ft
2-1/2	2.875"	2.323"	0.276"	7.66 lb/ft



3	3.500"	2.900"	0.300"	10.25 lb/ft
3-1/2	4.000"	3.364"	0.318"	12.50 lb/ft
4	4.500"	3.826"	0.337"	14.98 lb/ft
5	5.563"	4.813"	0.375"	20.78 lb/ft
6	6.625"	5.761"	0.432"	28.57 lb/ft
8	8.625"	7.625"	0.500"	43.39 lb/ft
10	10.750"	9.562"	0.594"	64.42 lb/ft
12	12.75"	11.374"	0.688"	88.63 lb/ft
14	14.000"	12.500"	0.750"	106.10 lb/ft
16	16.000"	14.312"	0.844"	136.58 lb/ft
18	18.000"	16.124"	0.938"	170.87 lb/ft
20	20.000"	17.938"	1.031"	208.92 lb/ft
24	24.000"	21.562"	1.219"	296.58 lb/ft

### Schedule 80 pipes Sizes

<b>NPS</b>	1/2	3/4	1	1¼	1½	2	2½	3	3½	4
<b>DN</b>	15	20	25	32	40	50	65	80	90	100

### Stainless Steel Pipe Sizes - Schedule 40S

<b>NPS</b>	<b>OUTSIDE DIAMETER(IN)</b>	<b>INSIDE DIAMETER(IN)</b>	<b>WALL THICKNESS(IN)</b>	<b>WEIGHT (LB/FT)</b>
1/8	0.405"	0.269"	0.068"	0.25 lb/ft
1/4	0.540"	0.364"	0.088"	0.40 lb/ft
3/8	0.675"	0.493"	0.091"	0.58 lb/ft
1/2	0.840"	0.622"	0.109"	0.87 lb/ft
3/4	1.050"	0.824"	0.113"	1.20 lb/ft
1	1.315"	1.049"	0.133"	1.68 lb/ft
1-1/4	1.660"	1.380"	0.140"	2.27 lb/ft
1-1/2	1.900"	1.610"	0.145"	2.72 lb/ft
2	2.375"	2.067"	0.154"	3.65 lb/ft
2-1/2	2.875"	2.469"	0.203"	5.79 lb/ft
3	3.500"	3.068"	0.216"	7.58 lb/ft
3-1/2	4.000"	3.548"	0.226"	9.11 lb/ft
4	4.500"	4.026"	0.237"	10.79 lb/ft



5	5.563"	5.047"	0.258"	14.62 lb/ft
6	6.625"	6.065"	0.280"	18.97 lb/ft
8	8.625"	7.981"	0.322"	28.55 lb/ft
10	10.750"	10.020"	0.365"	40.48 lb/ft
12	12.75"	12.000"	0.375"	49.56 lb/ft
14	14.000"	13.250"	0.375"	54.57 lb/ft
16	16.000"	15.250"	0.375"	62.58 lb/ft
18	18.000"	17.250"	0.375"	70.59 lb/ft
20	20.000"	19.250"	0.375"	78.60 lb/ft
24	24.000"	23.250"	0.375"	94.62 lb/ft

## Stainless Steel Pipe Sizes - Schedule 80S

NPS	OUTSIDE DIAMETER(IN)	INSIDE DIAMETER(IN)	WALL THICKNESS(IN)	WEIGHT (LB/FT)
1/8	0.405"	0.215"	0.095"	0.32 lb/ft
1/4	0.540"	0.302"	0.119"	0.54 lb/ft
3/8	0.675"	0.423"	0.126"	0.74 lb/ft
1/2	0.840"	0.546"	0.147"	1.09 lb/ft
3/4	1.050"	0.742"	0.154"	1.47 lb/ft
1	1.315"	0.957"	0.179"	2.17 lb/ft
1-1/4	1.660"	1.278"	0.191"	3.00 lb/ft
1-1/2	1.900"	1.500"	0.200"	3.63 lb/ft
2	2.375"	1.939"	0.218"	5.02 lb/ft
2-1/2	2.875"	2.323"	0.276"	7.66 lb/ft
3	3.500"	2.900"	0.300"	10.25 lb/ft
3-1/2	4.000"	3.364"	0.318"	12.50 lb/ft
4	4.500"	3.826"	0.337"	14.98 lb/ft
5	5.563"	4.813"	0.375"	20.78 lb/ft
6	6.625"	5.761"	0.432"	28.57 lb/ft
8	8.625"	7.625"	0.500"	43.39 lb/ft
10	10.750"	9.750"	0.500"	54.74 lb/ft
12	12.75"	11.750"	0.500"	65.42 lb/ft
14	14.000"	13.000"	0.500"	72.09 lb/ft
16	16.000"	15.000"	0.500"	82.77 lb/ft
18	18.000"	17.000"	0.500"	93.45 lb/ft
20	20.000"	19.000"	0.500"	104.10 lb/ft
24	24.000"	23.000"	0.500"	125.50 lb/ft

## Schedule 20 steel pipe dimensions

Nominal size [inches]	Outside diameter [inches]	Outside diameter [mm]	Wall thickness [inches]	Wall thickness [mm]	Weight [lb/ft]	Weight [kg/m]
8 inches	8.625 inches	219.1 mm	0.250 inches	6.35 mm	22.36 lb/ft	33.31 kg/m
10 inches	10.750 inches	273.0 mm	0.250 inches	6.35 mm	28.04 lb/ft	41.77 kg/m
12 inches	12.750 inches	323.8 mm	0.250 inches	6.35 mm	33.38 lb/ft	49.73 kg/m
14 inches	14.000 inches	355.6 mm	0.312 inches	7.92 mm	45.61 lb/ft	67.90 kg/m
16 inches	16.000 inches	406.4 mm	0.312 inches	7.92 mm	52.27 lb/ft	77.83 kg/m
18 inches	18.000 inches	457.0 mm	0.312 inches	7.92 mm	58.94 lb/ft	87.71 kg/m
20 inches	20.000 inches	508.0 mm	0.375 inches	9.53 mm	78.60 lb/ft	117.15 kg/m
22 inches	22.000 inches	559.0 mm	0.375 inches	9.53 mm	86.61 lb/ft	129.13 kg/m
24 inches	24.000 inches	610.0 mm	0.375 inches	9.53 mm	94.62 lb/ft	141.12 kg/m
26 inches	26.000 inches	660.0 mm	0.500 inches	12.70 mm	136.17 lb/ft	202.72 kg/m
28 inches	28.000 inches	711.0 mm	0.500 inches	12.70 mm	146.85 lb/ft	218.69 kg/m
30 inches	30.000 inches	762.0 mm	0.500 inches	12.70 mm	157.53 lb/ft	234.67 kg/m
32 inches	32.000 inches	813.0 mm	0.500 inches	12.70 mm	168.21 lb/ft	250.64 kg/m
34 inches	34.000 inches	864.0 mm	0.500 inches	12.70 mm	178.89 lb/ft	266.61 kg/m
36 inches	36.000 inches	914.0 mm	0.500 inches	12.70 mm	189.57 lb/ft	282.27 kg/m

## Sizes of SCH 20 pipes

<b>NPS</b>	1/2	3/4	1	1¼	1½	2	2½	3	3½	4
<b>DN</b>	15	20	25	32	40	50	65	80	90	100

## Buy 2 Inch CS schedule seamless pipe and Schedule 40 galvanized and black steel pipeat price in India

### Schedule 40 Galvanized Pipe Price

Inner Diameter In Inch	Outer Diameter In Inch	WT In Inch	Length Of Pipe In Feet	Price In INR (EACH)
0.055	1/8	0.035	4	78.20
0.069	1/8	0.028	4	88.00
0.085	1/8	0.020	4	82.40
0.090	3/16	0.049	4	163.01
0.093	1/8	0.016	4	190.17
0.118	3/16	0.035	4	217.34
0.120	1/4	0.065	4	271.68
0.148	3/16	0.020	4	280.63
0.152	1/4	0.049	4	313.68
0.257	5/16	0.028	4	337.66
0.273	5/16	0.020	8	353.18
0.277	3/8	0.049	8	426.01
0.305	3/8	0.035	8	441.67
0.319	3/8	0.028	8	457.97



0.370	1/2	0.065	8	434.68
0.370	1/2	0.065	8	721.88
0.584	3/4	0.083	8	667.55
0.585	5/8	0.020	8	698.60
0.620	3/4	0.065	10	931.46
0.620	3/4	0.065	10	1.00
0.652	3/4	0.049	10	1078.95
0.680	3/4	0.035	10	1148.81

**Get SS 304 and 316 Seamless Pipe Weight online, view SS Tube Size/ Weight Chart**

NPS	Outside Diameter		Wall Thickness		Sched	Weight	Weight
	in	mm	in	mm		kg/Mtr	Lb/ft
1/2"	0.840	21	0.109	2.769	40 STD	1.268	0.851
			0.147	3.734	80 STD	1.621	1.088
3/4"	1.050	27	0.113	2.870	40 STD	1.684	1.131
			0.154	3.912	80 STD	2.195	1.474
1"	1.315	33	0.133	3.378	40 STD	2.501	1.679
			0.179	4.547	80 STD	3.325	2.172
1 1/4"	1.660	42	0.140	3.556	40 STD	3.385	2.273
			0.191	4.851	80 STD	4.464	2.997
1 1/2"	1.900	48	0.145	3.683	40 STD	4.048	2.718
			0.200	5.080	80 STD	5.409	3.361
2"	2.375	60	0.154	3.912	40 STD	5.441	3.653
			0.218	5.537	80 STD	7.480	5.022
2 1/2"	2.875	73	0.203	5.516	40 STD	8.629	5.793
			0.276	7.010	80 STD	11.411	7.661
3"	3.500	89	0.216	5.486	40 STD	11.284	7.576
			0.300	7.620	80 STD	15.272	10.253
4"	4.500	114	0.237	6.020		16.073	10.790
			0.337	8.560		22.318	14.983



6"	6.625	168	0.188	4.775		19.252	12.924
			0.203	5.516		20.739	13.923
			0.219	5.563		22.318	14.983
			0.250	6.350		25.354	17.021
			0.280	7.112	40 STD	58.263	18.974
			0.312	7.925		31.334	21.036
			0.375	9.525		37.285	25.031
			0.432	10.973	80 XHY	42.561	28.573
			0.500	12.700		48.719	32.708
8"	8.625	219	0.188	4.775		25.233	16.940
			0.203	5.156		27.198	18.259
			0.219	5.563		29.286	19.661
			0.250	6.350	20	33.308	22.361
			0.277	7.036	30	36.786	24.696
			0.322	8.179	40	42.352	28.554
			0.375	9.525		49.216	33.041
			0.406	10.312	60	53.085	35.638
			0.500	12.700	80 XHY	64.627	43.388
10"	10.750	273	0.188	4.775		31.588	21.207
			0.219	5.563		36.689	24.631
			0.250	6.350	20	41.759	28.035
			0.307	7.798	30	51.002	34.240
			0.344	8.738		56.946	38.231
			0.365	9.271	40 STD	63.301	40.483
			0.438	11.125		71.852	48.238
			0.500	12.700	60 XHY	81.530	54.735
			0.594	15.088	80	95.969	64.429
12"	12.750	324	0.188	4.775		37.570	25.222
			0.219	5.563		43.657	29.309
			0.250	6.350		49.713	33.375
			0.281	7.137		55.739	37.420
			0.312	7.925		61.735	41.445
			0.375	9.525		73.824	49.562
			0.406	10.312		79.727	53.525
			0.500	12.700		97.438	65.415
			0.562	14.275		108.966	73.154
14"	14.000	356	0.188	4.775		41.308	27.732
			0.219	5.563		48.012	32.233
			0.250	6.350	20	54.685	36.713
			0.281	7.137		61.327	41.172
			0.312	7.925		67.939	45.611
			0.375	9.525	STD	81.281	54.568
			0.438	11.125	40	94.498	63.441





			0.500	12.700	XHY	107.381	72.090
			0.625	15.875		132.983	89.278
16"	16.000	406	0.188	4.775		47.290	21.748
			0.219	5.563		54.980	36.910
			0.250	6.350	10	62.639	42.053
			0.281	7.137		70.268	47.174
			0.312	7.925	20	77.866	52.275
			0.344	8.738		85.677	57.519
			0.375	9.525	30 STD	93.213	62.578
			0.438	11.125		108.433	72.797
			0.500	12.700	40 XHY	123.289	82.770
18"	18.000	457	0.219	5.563		61.948	41.588
			0.250	6.350		70.593	47.393
			0.281	7.137		79.208	53.176
			0.312	7.925	20	87.792	58.939
			0.375	9.525	STD	105.144	70.588
			0.438	11.125	30	122.369	82.152
			0.500	12.700	XHY	139.198	93.450
			0.562	14.275	40	155.904	104.666
			0.625	15.875		172.754	115.978
20"	20.000	508	0.250	6.350		78.547	52.733
			0.282	7.163		88.458	59.386
			0.312	7.925		97.719	65.604
			0.375	9.525	20 STD	117.075	78.598
			0.438	11.125		136.305	91.508
			0.500	12.700	30 XHY	155.106	104.130
			0.594	15.088	40	183.378	123.110
			0.625	15.875		192.640	129.328
			0.688	17.475		211.368	141.901
24"	24.000	610	0.250	6.350		94.456	63.413
			0.281	7.137		106.029	71.183
			0.312	7.925		117.573	18.932
			0.375	9.525	20 STD	140.938	64.618
			0.438	11.125		164.176	110.219
			0.500	12.700	XHY	186.923	125.490
			0.625	15.875		232.410	156.028
			0.688	17.475	40	255.148	171.293
			0.750	19.050		277.401	186.233
30"	30.000	762	0.250	6.350		118.318	79.433



			0.281	7.137		132.851	89.189
			0.312	7.925	10	147.353	98.925
			0.375	9.525	STD	176.731	118.648
			0.438	11.125		205.983	138.286
			0.500	12.700	20 XHY	234.647	157.530
			0.625	15.875	30	292.066	196.078
			0.688	17.475		320.817	215.380
			0.750	19.050		348.988	234.293
36"	36.000	914	0.250	6.350		142.180	95.453
			0.281	7.137		159.672	107.196
			0.312	7.925	10	177.133	118.918
			0.375	9.525	STD	215.525	142.678
			0.438	11.125		247.790	166.353
			0.500	12.700	20 XHY	282.372	198.570
			0.625	15.875		351.723	236.128
			0.688	17.475		386.487	259.467
			0.750	19.050		420.576	282.353
42"	42.000	1067	0.312	7.925		206.914	138.911
			0.375	9.525	STD	248.319	166.708
			0.500	12.700	XHY	33.097	221.610
			0.750	19.050		492.163	330.413
48"	48.000	1219	0.375	9.525	STD	284.112	190.738
			0.438	11.125		331.404	222.487
			0.500	12.700	XHY	377.822	253.650
			0.750	19.050		563.750	378.473
			0.875	22.225		655.969	440.383

## Pipe Measurement



## Manufacturing Process of Seamless Pipe

**Piercing**



**Mandrel Mill Process**



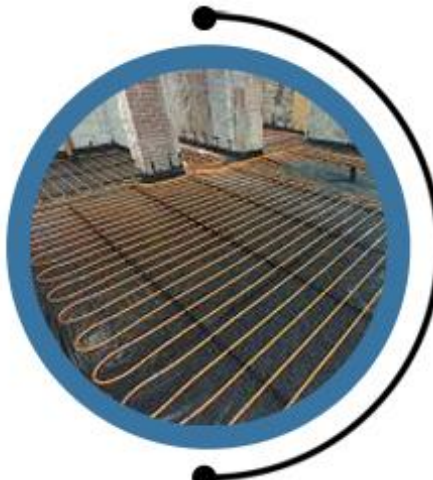
**Mannesmann Plug Mill Process**



**Extrusion Process**



**Reheating**



**Cooling on Cooler**



