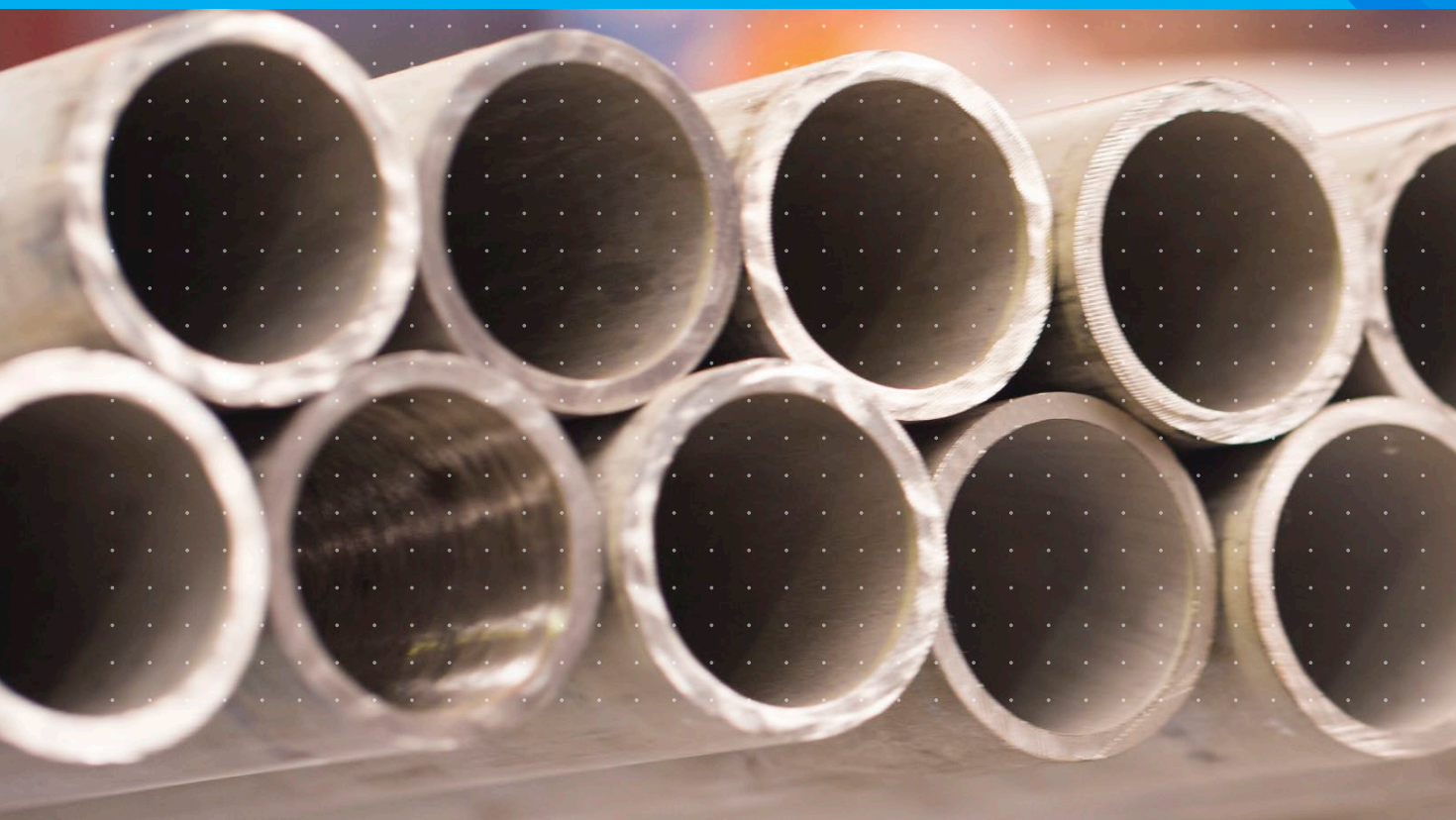


# 01 PIPE

PIPE



# Pipe

## TOLERANCE ON OUTSIDE DIAMETER, WALL THICKNESS, WEIGHT AND LENGTH OF PIPE

SPEC.	TYPE	OUTSIDE DIAMETER		
		PIPE BODY	PIPE ENDS (PLAIN END)	
ASTM A - 53	E,S	1½" NPS and under:	± 0.40mm	N.A
		2" NPS and over:	± 1.0%	
ASTM A106	S	½" to 1½":	± 0.40mm	N.A
		> 1" to 4":	± 0.80mm	
		Above 4" to 8":	+ 1.60mm, - 0.80mm	
		Above 8" to 18":	+ 2.40mm, - 0.80mm	
ASTM A - 179	S	<b>Hot Finished Seamless Tubes</b>		
		4" (101.6mm and under):	+ 0.40mm, - 0.80mm	
A - 192	S	Above 4" to 7½" including:	+ 0.40mm, - 1.20mm	
		(101.6 to 190.5mm)		
A - 209	S	Over 7½" to 9":	+ 0.40, - 1.60mm	
		(190.50 to 228.60mm)		
		<b>Welded and Cold Finished Seamless Tubes</b>		
A - 210	S	< 1" (25.4mm):	± 0.10mm	N.A
A - 213	S	1" (25.4mm ) to 1½" (38.1mm) including:	± 0.15mm	
		> 1½"(38.1mm) to 2" (50.8mm) excluding:	± 0.20mm	
A - 178 A - 214	E	2" (50.8mm) to 2½" (63.5mm) excluding:	± 0.25mm	
		2½" (63.5mm) to 3" (76.2mm) excluding:	± 0.30mm	
A - 214	E	3" (76.2mm) to 4" (101.6mm) including:	± 0.38mm	
		> 4" (101.6mm) to 7½" (190.5mm) including:	+ 0.38mm, - 0.64mm	
A - 334	E,S	> 7½" (190.5mm) to 9" (228.6mm) including:	+ 0.38mm, - 1.14mm	
ASTM A - 335	S	½" to 1½":	± 0.40mm	N.A
		> 1½" to 4":	± 0.79mm	
		> 4" to 8" including:	+1.59mm, - 0.79mm	
		8" to 12":	+ 2.38mm, - 0.79mm	
		Over 12":	± 1.0% of OD	
ASTM A - 333	E,S	½" to 1½" including:	+ 0.40mm, - 0.80mm	N.A
		> 1½" to 4" including:	± 0.80mm	
		> 4" to 8" including:	+ 1.60mm, - 0.80mm	
		> 8" to 18" including:	+ 2.40mm, - 0.80mm	
		> 18" to 26" including:	+ 3.20mm, - 0.80mm	
ASTM A - 519	S	Up to 76.17mm:	± 0.51mm	Not Specified
		76.20 to 114.27mm :	± 0.64mm	
		114.30 to 152.37mm:	± 0.79mm	
		152.4 to 190.47mm :	± 0.94mm	
		190.50 to 228.57mm:	± 1.14mm	
		228.6 to 273.05mm:	± 1.27mm	
ASTM A - 589	E & S	For NPS 1½" & under:	± 0.40mm	Not Specified
		NPS 2 and above:	± 1% of OD	
RDSO ETI / OHE / 11" (5/89)	E,S	33.7mm OD:	+ 0.80mm, - 1.0mm	28.4 (Std. ID) & 27.70 (Min ID)
		38.0mm OD:	+ 0.32mm, - 0.2mm	29.9 (Std. ID) and 29.58 (Min ID)
		49.0mm OD:	+ 0.32mm, - 0.2mm	40.9 (Std. ID) and 40.58 (Min ID)
DIN 1629 and DIN 1630	S	≤ 100mm OD:	± 1% of OD (0.5mm max)	≤ 100mm OD: ± 0.40mm
		> 100mm OD:	± 1% of OD	> 100mm OD ≤ 200mm: ± 0.5%
				> 200mm OD: ± 0.6%
DIN 2391	S	As per table of relevant specification		Not specified
DIN 17175	S	OD ≤ 100mm:	± 0.75% (± 0.5mm min)	OD ≥ 45mm ≤ 100mm: ± 0.40mm
		OD > 100mm ≤ 320mm:	± 0.9%	OD > 100mm ≤ 200mm: ± 0.5%
		OD > 320mm:	± 1.0%	OD > 200mm: ± 0.6%



# Pipe

## ASTM SCHEDULED SIZES

### Dimensions and Weight

NOMINAL PIPE SIZE (mm/inch)	OD (mm)	SCHEDULE WALL THICKNESS (mm) / WEIGHT (kg/m)													
		SCH. 5	SCH. 10	SCH. 20	SCH. 30	STD	SCH. 40	XS	SCH. 60	SCH. 80	SCH. 100	SCH. 120	SCH. 140	SCH. 160	XXS
6	10.3	-	1.24	-	1.45	1.73	1.73	2.41	-	2.41	-	-	-	-	-
		1/8	-	0.28	-	0.32	0.37	0.37	0.47	-	0.47	-	-	-	-
8	13.7	-	1.65	-	1.85	2.24	2.24	3.02	-	3.02	-	-	-	-	-
		1/4	-	0.49	-	0.54	0.63	0.63	0.80	-	0.80	-	-	-	-
10	17.1	-	1.65	-	1.85	2.31	2.31	3.20	-	3.20	-	-	-	-	-
		3/8	-	0.63	-	0.70	0.84	0.84	1.10	-	1.10	-	-	-	-
15	21.3	1.65	2.11	-	2.41	2.77	2.77	3.73	-	3.73	-	-	-	4.78	7.47
		1/2	0.80	1.00	-	1.12	1.27	1.27	1.62	-	1.62	-	-	-	1.95
20	26.7	1.65	2.11	-	2.41	2.87	2.87	3.91	-	3.91	-	-	-	5.56	7.82
		3/4	1.03	1.28	-	1.44	1.69	1.69	2.20	-	2.20	-	-	-	2.90
25	33.4	1.65	2.77	-	2.90	3.38	3.38	4.55	-	4.55	-	-	-	6.35	9.09
		1	1.29	2.09	-	2.18	2.50	2.50	3.24	-	3.24	-	-	-	4.24
32	42.2	1.65	2.77	-	2.97	3.56	3.56	4.85	-	4.85	-	-	-	6.35	9.70
		1 1/4	1.65	2.69	-	2.87	3.39	3.39	4.47	-	4.47	-	-	-	5.61
40	48.3	1.65	2.77	-	3.18	3.68	3.68	5.08	-	5.08	-	-	-	7.14	10.15
		1 1/2	1.90	3.11	-	3.53	4.05	4.05	5.41	-	5.41	-	-	-	7.25
50	60.3	1.65	2.77	-	3.18	3.91	3.91	5.54	-	5.54	-	-	-	8.74	11.07
		2	2.39	3.93	-	4.48	5.44	5.44	7.48	-	7.48	-	-	-	11.11
65	73.0	2.11	3.05	-	4.78	5.16	5.16	7.01	-	7.01	-	-	-	9.53	14.02
		2 1/2	3.69	5.26	-	8.04	8.63	8.63	11.41	-	11.41	-	-	-	14.92
80	88.9	2.11	3.05	-	4.78	5.49	5.49	7.62	-	7.62	-	-	-	11.13	15.24
		3	4.52	6.46	-	9.92	11.29	11.29	15.27	-	15.27	-	-	-	21.35
90	101.6	2.11	3.05	-	4.78	5.74	5.74	8.08	-	8.08	-	-	-	-	-
		3 1/2	5.18	7.41	-	11.41	13.57	13.57	18.64	-	18.64	-	-	-	-
100	114.3	2.11	3.05	-	4.78	6.02	6.02	8.56	-	8.56	-	11.13	-	13.49	17.12
		4	5.84	8.37	-	12.91	16.08	16.08	22.32	-	22.32	-	28.32	-	33.54
125	141.3	2.77	3.40	-	-	6.55	6.55	9.53	-	9.53	-	12.70	-	15.88	19.05
		5	9.46	11.56	-	-	21.77	21.77	30.97	-	30.97	-	40.28	-	49.12
150	168.30	2.77	3.40	-	-	7.11	7.11	10.97	-	10.97	-	14.27	-	18.26	21.95
		6	11.31	13.83	-	-	28.26	28.26	42.56	-	42.56	-	54.21	-	67.57
200	219.10	2.77	3.76	6.35	7.04	8.18	8.18	12.70	10.31	12.70	15.09	18.26	20.62	23.01	22.23
		8	14.78	19.97	33.32	36.82	42.55	42.55	64.64	53.09	64.64	75.92	90.44	100.93	111.27
250	273.00	3.40	4.19	6.35	7.80	9.27	9.27	12.70	12.70	15.09	18.26	21.44	25.40	28.58	25.40
		10	22.61	27.78	41.76	51.01	60.29	60.29	81.53	81.53	95.98	114.71	133.01	155.10	172.27
300	323.80	3.96	4.57	6.35	8.38	9.53	10.31	12.70	14.27	17.48	21.44	25.40	28.58	33.32	25.40
		12	31.24	35.98	49.71	65.19	73.86	79.71	97.44	108.93	132.05	159.87	186.92	208.08	238.69
350	355.60	3.96	6.35	7.92	9.53	9.53	11.13	12.70	15.09	19.05	23.83	27.79	31.75	35.71	-
		14	34.34	54.69	67.91	81.33	81.33	94.55	107.40	126.72	158.11	194.98	224.66	253.58	281.72

NOTE : Weights are specified for Plain End Pipes.

**Carbon Steel**

SIZE (NB)	SCH 40	SCH 80
15	IPSW 15s	IPXS 15s
20	IPSW 20s	IPXS20s
25	IPSW 25s	IPXS 25s
32	IPSW 32s	IPXS 32s
40	IPSW 40s	IPXS 40s
50	IPSW 50s	IPXS 50s
65	IPSW 65s	IPXS 65s
80	IPSW 80s	IPXS 80s
100	IPSW 100s	IPXS 100s
125	IPSW 125s	IPXS 125s
150	IPSW 150s	IPXS 150s
200	IPSW 200s	IPXS 200s
250	IPSW250s	IPXS 250s (extra strong)
300	IPSW 300s (standard weight)	IPXS 300s (extra strong)

**Galvanised Steel**

SIZE (NB)	SCH 40	SCH 80
15	IPSWG 15s	IPXSG 15s
20	IPSWG 20s	IPXSG 20s
25	IPSWG 25s	IPXSG 25s
32	IPSWG 32s	IPXSG 32s
40	IPSWG 40s	IPXSG 40s
50	IPSWG 50s	IPXSG 50s
65	IPSWG 65s	IPXSG 65s
80	IPSWG 80s	IPXSG 80s
100	IPSWG 100s	IPXSG 100s

**Stainless Steel 316**

SIZE (NB)	SCH 10	SCH 40
15	ISSP s1015	ISSP 015
20	ISSP s1020	ISSP 020
25	ISSP s1025	ISSP 025
32	ISSP s1032	ISSP 032
40	ISSP s1040	ISSP 040
50	ISSP s1050	ISSP 050
65	ISSP s1065	ISSP 065
80	ISSP s1080	ISSP 080
100	ISSP s10100	ISSP 100
125	ISSP s10125	
150	ISSP s10150	



# Notes

A large grid of small dots for taking notes, covering most of the page area.