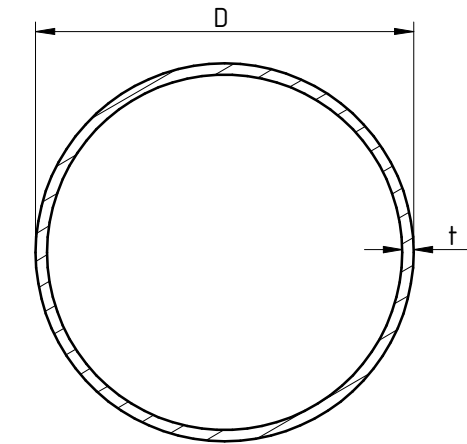


Nominal Pipe Size		Outside Diameter "D" (mm)	Wall Thickness "t" (mm)																
DN	NPS		Stainless Steel				Carbon Steel												
			Sch 5S	Sch 10S	Sch 40S	Sch 80S	Sch 10	Sch 20	Sch 30	Sch 40	STD	Sch 60	Sch 80	XS	Sch 100	Sch 120	Sch 140	Sch 160	XXS
6	1/8	10.3		1.24	1.73	2.41	1.24		1.45	1.73	1.73		2.41	2.41					
8	1/4	13.7		1.65	2.24	3.02	1.65		1.85	2.24	2.24		3.02	3.02					
10	3/8	17.1		1.65	2.31	3.20	1.65		1.85	2.31	2.31		3.20	3.20					
15	1/2	21.3	1.65	2.11	2.77	3.73	2.11		2.41	2.77	2.77		3.73	3.73				4.78	7.47
20	3/4	26.7	1.65	2.11	2.87	3.91	2.11		2.41	2.87	2.87		3.91	3.91				5.56	7.82
25	1	33.4	1.65	2.77	3.38	4.55	2.77		2.90	3.38	3.38		4.55	4.55				6.35	9.09
32	1 1/4	42.2	1.65	2.77	3.56	4.85	2.77		2.97	3.56	3.56		4.85	4.85				6.35	9.70
40	1 1/2	48.3	1.65	2.77	3.68	5.08	2.77		3.18	3.68	3.68		5.08	5.08				7.14	10.15
50	2	60.3	1.65	2.77	3.91	5.54	2.77		3.18	3.91	3.91		5.54	5.54				8.74	11.07
65	2 1/2	73	2.11	3.05	5.16	7.01	3.05		4.78	5.16	5.16		7.01	7.01				9.53	14.02
80	3	88.9	2.11	3.05	5.49	7.62	3.05		4.78	5.49	5.49		7.62	7.62				11.13	15.24
90	3 1/2	101.6	2.11	3.05	5.74	8.08	3.05		4.78	5.74	5.74		8.08	8.08					
100	4	114.3	2.11	3.05	6.02	8.56	3.05		4.78	6.02	6.02		8.56	8.56		11.13		13.49	17.12
125	5	141.3	2.77	3.40	6.55	9.53	3.40			6.55	6.55		9.53	9.53		12.70		15.88	19.05
150	6	168.3	2.77	3.40	7.11	10.97	3.40			7.11	7.11		10.97	10.97		14.27		18.26	21.95
200	8	219.1	2.77	3.76	8.18	12.70	3.76	6.35	7.04	8.18	8.18	10.31	12.70	12.70	15.09	18.26	20.62	23.01	22.23
250	10	273.1	3.40	4.19	9.27	12.70	4.19	6.35	7.80	9.27	9.27	12.70	15.09	12.70	18.26	21.44	25.40	28.58	25.40
300	12	323.9	3.96	4.57	9.53	12.70	4.57	6.35	8.38	10.31	9.53	14.27	17.48	12.70	21.44	25.40	28.58	33.32	25.40
350	14	355.6	3.96	4.78	9.53	12.70	6.35	7.92	9.53	11.13	9.53	15.09	19.05	12.70	23.83	27.79	31.75	35.71	
400	16	406.4	4.19	4.78	9.53	12.70	6.35	7.92	9.53	12.70	9.53	16.66	21.44	12.70	26.19	30.96	36.53	40.49	
450	18	457	4.19	4.78	9.53	12.70	6.35	7.92	11.13	14.27	9.53	19.05	23.83	12.70	29.36	34.93	39.67	45.24	
500	20	508	4.78	5.54	9.53	12.70	6.35	9.53	12.70	15.09	9.53	20.62	26.19	12.70	32.54	38.10	44.45	50.01	
550	22	559	4.78	5.54			6.35	9.53	12.70		9.53	22.23	28.58	12.70	34.93	41.28	47.63	53.98	
600	24	610	5.54	6.35	9.53	12.70	6.35	9.53	14.27	17.48	9.53	24.61	30.96	12.70	38.89	46.02	52.37	59.54	
650	26	660					7.92	12.70			9.53			12.70					
700	28	711					7.92	12.70	15.88		9.53			12.70					
750	30	762	6.35	7.92			7.92	12.70	15.88		9.53			12.70					



INSIDE DIAMETER

$$d = D - 2t$$

INTERNAL AREA

$$A = \frac{\pi d^2}{4}$$

APPROX. UNIT MASS OF EMPTY PIPE (in kg/m)

$$\frac{\rho}{1,000,000} \pi (D - t)t$$

(where: ρ = material density in kg/m³)

APPROX. UNIT MASS OF CARBON STEEL PIPE

$$0.02466 (D - t)t$$

APPROX. UNIT MASS OF STAINLESS STEEL PIPE

$$0.02513 (D - t)t$$

NOTES

1. DIMENSIONS LISTED ARE NOMINAL, TOLERANCES APPLY.
2. STAINLESS STEEL PIPE DIMENSIONS ARE BASED ON ASTM A312M AND ASME B36.19M.
3. CARBON STEEL PIPE DIMENSIONS ARE BASED ON ASTM A106M AND ASME B36.10M.
4. CORRECT INTERPRETATION AND USE OF THIS INFORMATION IS THE RESPONSIBILITY OF THE USER. TRANG TAKES NO RESPONSIBILITY FOR THE OUTCOMES OF THE USE OF THIS INFORMATION.
5. DIMENSIONS LISTED ARE IN mm U.N.O.
6. ASSUMED DENSITIES FOR CARBON STEEL PIPE AND STAINLESS STEEL PIPE ARE 7850kg/m³ AND 8000kg/m³ RESPECTIVELY.
7. FOR YOUR STRUCTURAL, MECHANICAL AND PIPING (SMP) DESIGN NEEDS CONTACT TRANG IMAGINEERING ON 13 000 87264 OR EMAIL info@trang.com.au

DESIGNED AND ENGINEERED FOR:	DESIGNED AND ENGINEERED BY:
INITIAL RELEASE	SB GH SB
DETAIL	BY CHK DES

DESIGNED AND ENGINEERED FOR:	DESIGNED AND ENGINEERED BY:
INITIAL RELEASE	SB GH SB
DETAIL	BY CHK DES

TRANG
Imagineering

TRANG IMAGINEERING
74 ASTILL DRIVE
ORANGE NSW 2800
PHONE: 13 000 TRANG
info@trang.com.au

TRANG TECHNICAL REFERENCE DATA
NOMINAL DIMENSIONS OF PIPE

DRAWING No. **TRANG-TRD-005**

ALL DIMENSIONS IN MM DO NOT SCALE THIRD ANGLE PROJECTION SHEET: 1 OF 1