
SPS
PRODUCTS FOR
• STEEL PIPE,
• FITTING, FLANGE

SPS PIPES

ASTM A53

NPS Designator	Outside diameter		Wall thickness		Nominal weight						Weight class	Schedule No.	Test pressure							
					Plain end			threads & couplings					Plain end				threads & couplings			
													Grade A		Grade B		Grade A		Grade B	
in.	in.	mm	in.	mm	lb/ft	kg/ft	kg/m	lb/ft	kg/ft	kg/m			psi	kpa	psi	kpa	psi	kpa	psi	kpa
5	5.563	141.3	0.156	3.96	9.01	4.09	13.41	-	-	-	-	-	1010	6960	1180	8140	-	-	-	-
			0.188	4.78	10.79	4.90	16.09	-	-	-	-	-	1220	8410	1420	9790	-	-	-	-
			0.219	5.56	12.50	5.67	18.61	-	-	-	-	-	1420	9790	1650	11380	-	-	-	-
			0.258	6.55	14.62	6.64	21.77	14.81	6.73	22.07	STD	40	1670	11510	1950	13440	1700	11720	1900	13100
			0.281	7.14	15.85	7.20	23.62	-	-	-	-	-	1820	12550	2120	14620	-	-	-	-
			0.312	7.92	17.50	7.94	26.05	-	-	-	-	-	2020	13930	2360	16270	-	-	-	-
			0.344	8.74	19.17	8.71	28.57	-	-	-	-	-	2230	15380	2600	17930	-	-	-	-
			0.375	9.52	20.78	9.43	30.94	21.09	9.58	31.42	XS	80	2430	16750	2800	19310	2400	16550	2800	19310
			0.500	12.70	27.04	12.28	40.28	-	-	-	-	120	2800	19310	2800	19310	-	-	-	-
			0.625	15.88	32.96	14.97	49.11	-	-	-	-	160	2800	19310	2800	19310	-	-	-	-
6	6.250	168.3	0.188	4.78	12.92	5.87	19.27	-	-	-	-	-	1020	7030	1190	8200	-	-	-	-
			0.219	5.56	14.98	6.80	22.31	-	-	-	-	-	1190	8200	1390	9580	-	-	-	-
			0.25	6.35	17.03	7.73	25.36	-	-	-	-	-	1360	9380	1580	10890	-	-	-	-
			0.280	7.11	18.97	8.61	28.26	19.18	8.71	28.58	STD	40	1520	10480	1780	12270	1500	10340	1800	12410
			0.312	7.92	21.04	9.55	31.32	-	-	-	-	-	1700	11720	1980	13650	-	-	-	-
			0.344	8.74	23.08	10.48	34.39	-	-	-	-	-	1870	12890	2180	15030	-	-	-	-
			0.375	9.52	25.03	11.36	37.28	-	-	-	-	-	2040	14070	2380	16410	-	-	-	-
			0.432	10.97	28.57	12.97	42.56	28.89	13.12	43.05	XS	80	2350	16200	2740	18890	2300	15860	2700	18620
			0.562	14.27	36.39	16.52	54.20	-	-	-	-	120	2800	19310	2800	19310	-	-	-	-
			0.719	18.26	45.35	20.59	67.56	-	-	-	-	160	2800	19310	2800	19310	-	-	-	-
8	8.625	219.1	0.188	4.78	16.94	7.70	25.26	-	-	-	-	-	780	5380	920	6340	-	-	-	-
			0.203	5.16	18.26	8.30	27.22	-	-	-	-	-	850	5860	1000	6890	-	-	-	-
			0.219	5.56	19.66	8.92	29.28	-	-	-	-	-	910	6270	1070	7380	-	-	-	-
			0.250	6.35	22.36	10.15	33.31	-	-	-	-	20	1040	7170	1220	8410	-	-	-	-
			0.277	7.04	24.70	11.07	36.31	25.55	11.60	38.07	-	30	1160	7800	1350	9310	1200	8270	1300	8960
			0.312	7.92	27.70	12.57	41.24	-	-	-	-	-	1300	8960	1520	10480	-	-	-	-
			0.322	8.18	28.55	12.97	42.55	29.35	13.33	43.73	STD	40	1340	9240	1570	10820	1300	8960	1600	11030
			0.344	8.74	30.42	13.82	45.34	-	-	-	-	-	1440	9930	1680	11580	-	-	-	-
			0.375	9.52	33.04	15.00	49.20	-	-	-	-	-	1570	10820	1830	12620	-	-	-	-
			0.406	10.31	35.64	16.18	53.08	-	-	-	-	60	1700	11720	2000	13790	-	-	-	-
			0.438	11.13	38.30	17.40	57.08	-	-	-	-	-	1830	12620	2130	14690	-	-	-	-
			0.500	12.70	43.39	19.70	64.64	43.90	19.94	65.41	XS	80	2090	14410	2430	16750	2100	14480	2400	16550
			0.594	15.09	50.95	23.14	75.92	-	-	-	-	100	2500	17240	2800	19310	-	-	-	-
			0.719	18.26	60.71	27.57	90.44	-	-	-	-	120	2800	19310	2800	19310	-	-	-	-
			0.182	20.62	67.76	30.76	100.92	-	-	-	-	140	2800	19310	2800	19310	-	-	-	-
10	10.750	273.0	0.188	4.78	21.21	9.64	31.62	-	-	-	-	-	630	4340	730	5030	-	-	-	-
			0.203	5.16	22.87	10.39	34.08	-	-	-	-	-	680	4690	800	5520	-	-	-	-
			0.219	5.56	24.63	11.18	36.67	-	-	-	-	-	730	5030	860	5930	-	-	-	-
			0.250	6.35	28.04	12.73	41.75	-	-	-	-	20	840	5790	980	6760	-	-	-	-
			0.279	7.09	31.20	14.17	46.49	32.75	14.87	48.80	-	-	930	6410	1090	7520	950	6550	1100	7580
			0.307	7.80	34.24	15.55	51.01	35.75	16.24	53.27	-	30	1030	7100	1200	8270	1000	6890	1200	8270
			0.344	8.74	38.23	17.36	56.96	-	-	-	-	-	1150	9730	1340	9240	-	-	-	-
			0.365	9.27	40.48	18.38	60.29	41.85	19.31	63.36	STD	40	1220	8410	1430	9860	1200	8270	1400	9650
			0.438	11.13	48.19	21.91	71.27	-	-	-	-	-	1470	10140	1710	11790	-	-	-	-
			0.500	12.70	54.74	24.85	81.52	55.82	25.35	83.17	XS	60	1670	11510	1950	13440	1700	11720	2000	13790
			0.594	15.09	64.43	29.25	95.97	-	-	-	-	80	1990	13720	2320	16000	-	-	-	-
			0.719	18.26	77.03	34.96	114.70	-	-	-	-	100	2410	16620	2800	19310	-	-	-	-
			0.844	21.44	89.29	40.54	133.00	-	-	-	-	120	2800	19310	2800	19310	-	-	-	-

Dimension Tolerances:
Permissible Variation
Outside Diameter : 1.1/2" and under +/- 1/64" (0.4 mm.)
: 2" and over +/ - 1%
Wall Thickness : - 12.5% + Not Specified

SPS PIPES

ASTM A53

NPS Designator	Outside diameter		Wall thickness		Nominal weight						Weight class	Schedule No.	Test pressure							
					Plain end			threads & couplings					Plain end				threads & couplings			
													Grade A		Grade B		Grade A		Grade B	
in.	in.	mm	in.	mm	lb/ft	kg/ft	kg/m	lb/ft	kg/ft	kg/m			psi	kpa	psi	kpa	psi	kpa	psi	kpa
12	12..750	323.8	0.203	5.16	27.20	12.36	40.55	-	-	-	-	-	570	3930	670	4620	-	-	-	-
			0.219	5.56	29.31	13.30	43.63	-	-	-	-	-	620		720	4960	-	-	-	-
			0.25	6.35	33.38	15.15	49.71	-	-	-	-	20	710	4270	820	5650	-	-	-	-
			0.281	7.14	37.42	16.99	55.75	-	-	-	-	-	790	4900	930	6410	-	-	-	-
			0.312	7.92	41.45	18.80	61.69	-	-	-	-	-	880	5450	1030	7100	-	-	-	-
			0.033	8.38	43.77	19.87	65.18	45.45	20.64	67.72	-	30	930	6070	1090	7520	950	6550	1100	7580
			0.344	8.74	45.58	20.70	67.90	-	-	-	-	-	970	6410	1130	7790	-	-	-	-
			0.375	9.52	49.56	22.49	73.78	51.15	23.23	76.21	STD	-	1060	6690	1240	8550	1100	7580	1200	8270
			0.060	10.31	53.52	24.29	79.70	-	-	-	-	40	1160	7310	1340	9240	-	-	-	-
			0.438	11.13	57.59	26.16	85.82	-	-	-	-	-	1240	7930	1440	9930	-	-	-	-
			0.500	12.70	65.43	29.70	97.43	66.71	30.30	99.40	XS	-	1410	8550	1650	11380	1400	9650	1600	11030
			0.562	14.27	73.15	33.25	108.92	-	-	-	-	60	1590	9720	1850	12760	-	-	-	-
			0.688	17.48	88.63	40.25	132.04	-	-	-	-	80	1940	10960	2270	15650	-	-	-	-
			0.644	21.44	107.32	48.73	159.86	-	-	-	-	100	2390	13380	2780	19170	-	-	-	-
14	14.000	355.6	0.210	5.33	30.93	14.03	46.04	-	-	-	-	-	540	16480	630	4340	-	-	-	-
			0.219	5.56	32.23	14.63	47.99	-	-	-	-	-	560	3720	660	4550	-	-	-	-
			0.250	6.35	36.71	16.67	54.69	-	-	-	-	10	640	3860	750	5170	-	-	-	-
			0.281	7.14	41.17	18.70	61.35	-	-	-	-	-	720	4410	840	5790	-	-	-	-
			0.312	7.92	45.61	20.70	67.90	-	-	-	-	20	800	4960	940	6480	-	-	-	-
			0.344	8.74	50.17	22.79	74.76	-	-	-	-	-	880	5520	1030	7100	-	-	-	-
			0.375	9.52	54.57	24.77	81.25	-	-	-	STD	30	960	6070	1120	7720	-	-	-	-
			0.438	11.13	63.44	28.82	94.55	-	-	-	-	40	1130	6620	1310	9030	-	-	-	-
			0.469	11.91	67.78	30.77	100.94	-	-	-	-	-	1210	7790	1410	9720	-	-	-	-
			0.500	12.07	72.09	32.73	107.39	-	-	-	XS	-	1290	8340	1500	10340	-	-	-	-
			0.594	15.09	85.05	38.62	126.71	-	-	-	-	60	1530	8890	1790	12340	-	-	-	-
			0.750	19.05	106.13	48.19	158.10	-	-	-	-	80	1930	10550	2250	15510	-	-	-	-
			0.938	23.83	130.85	59.42	194.96	-	-	-	-	100	2410	13310	2800	19310	-	-	-	-
			1.094	27.79	150.70	68.48	224.65	-	-	-	-	120	2800	16620	2800	19310	-	-	-	-
			1.250	31.75	170.22	77.29	253.56	-	-	-	-	140	2800	19310	2800	19310	-	-	-	-
			1.406	35.71	189.11	85.86	281.70	-	-	-	-	160	2800	19310	2800	19310	-	-	-	-
			2.000	50.80	256.32	116.38	381.83	-	-	-	-	-	2800	19310	2800	19310	-	-	-	-
			2.125	53.97	269.51	122.36	401.44	-	-	-	-	-	2800	19310	2800	19310	-	-	-	-
			2.200	55.88	277.26	125.89	413.01	-	-	-	-	-	2800	19310	2800	19310	-	-	-	-
			2.500	63.50	307.05	139.42	457.40	-	-	-	-	-	2800	19310	2800	19310	-	-	-	-
16	16.000	406.4	0.219	5.56	36.91	16.75	54.96	-	-	-	-	-	490	3930	570	3930	-	-	-	-
			0.250	6.35	42.05	19.09	62.64	-	-	-	-	10	560	4550	660	4550	-	-	-	-
			0.281	7.14	47.17	21.43	70.30	-	-	-	-	-	630	5100	740	5100	-	-	-	-
			0.312	7.92	52.27	23.72	77.83	-	-	-	-	20	700	5650	820	5650	-	-	-	-
			0.344	8.74	57.52	26.12	85.71	-	-	-	-	-	770	6210	900	6210	-	-	-	-
			0.375	9.52	62.58	28.40	93.17	-	-	-	STD	30	840	6760	980	6760	-	-	-	-
			0.438	11.13	72.80	33.07	108.49	-	-	-	-	-	990	7930	1150	7930	-	-	-	-
			0.469	11.91	77.79	35.31	115.86	-	-	-	-	-	1060	8480	1230	8480	-	-	-	-
			0.500	12.70	82.77	37.58	123.30	-	-	-	XS	40	1120	9030	1310	9030	-	-	-	-
			0.656	16.66	107.50	48.80	160.12	-	-	-	-	60	1480	11860	1720	11860	-	-	-	-
			0.844	21.44	136.62	62.04	203.53	-	-	-	-	80	1900	15310	2220	15310	-	-	-	-
			1.031	26.19	164.82	74.85	245.56	-	-	-	-	100	2320	18680	2710	18680	-	-	-	-
			1.219	30.96	192.43	87.37	286.64	-	-	-	-	120	2740	19310	2800	19310	-	-	-	-
			1.438	36.53	223.64	101.56	333.19	-	-	-	-	140	2800	19310	2800	19310	-	-	-	-
			1.594	40.49	245.25	111.36	365.35	-	-	-	-	160	2800	19310	2800	19310	-	-	-	-

Dimension Tolerances:
Permissible Variation
Outside Diameter : 1.1/2" and under +/- 1/64" (0.4 mm.)
: 2" and over +/ - 1%
Wall Thickness : - 12.5% + Not Specified

SPS PIPES

ASTM A53

NPS Designator	Outside diameter		Wall thickness		Nominal weight Plain end			Weight class	Schedule No.	Test pressure Plain end			
										Grade A		Grade B	
in.	in.	mm	in.	mm	lb/ft	kg/ft	kg/m			psi	kpa	psi	kpa
18	18.000	457.2	0.250	6.35	47.39	21.52	70.60	-	10	500	3450	580	4000
			0.281	7.14	53.18	24.15	79.24	-	-	560	3860	660	4550
			0.312	7.92	58.94	26.75	87.75	-	20	620	4270	730	5030
			0.344	8.74	64.87	29.46	96.66	-	-	690	4760	800	5520
			0.375	9.52	70.59	32.03	105.10	STD	-	750	5170	880	6070
			0.406	10.31	76.29	34.63	113.62	-	-	810	5580	950	6550
			0.438	11.13	82.15	37.32	122.43	-	30	880	6070	1020	7030
			0.469	11.91	87.81	39.86	130.78	-	-	940	6480	1090	7520
			0.500	12.70	93.45	42.43	139.20	XS	-	1000	6890	1170	8070
			0.562	14.27	104.67	47.51	155.87	-	40	1120	7720	1310	9030
			0.750	19.05	138.17	62.74	205.83	-	60	1500	10340	1750	12070
			0.938	23.83	170.92	77.62	254.67	-	80	1880	12960	2190	15100
			1.156	29.36	207.96	94.41	309.76	-	100	2310	15930	2700	18620
			1.375	34.92	244.14	110.84	363.64	-	120	2750	18960	2800	19310
			1.562	39.67	274.22	124.50	408.45	-	140	2800	19310	2800	19310
			1.781	45.24	308.50	140.08	459.59	-	160	2800	19310	2800	19310
20	20.000	508	0.250	6.35	52.73	23.94	78.55	-	10	450	3100	520	3590
			0.281	7.14	59.18	26.88	88.19	-	-	510	3520	590	4070
			0.312	7.92	65.60	29.77	97.67	-	-	560	3860	660	4550
			0.344	8.74	72.21	32.80	107.60	-	-	620	4270	720	4960
			0.375	9.52	78.60	35.67	117.02	STD	20	680	4690	790	5450
			0.406	10.31	84.96	38.57	126.53	-	-	730	5030	850	5860
			0.438	11.13	91.51	41.57	136.37	-	-	790	5450	920	6340
			0.469	11.91	97.83	44.41	145.70	-	-	850	5860	950	6550
			0.500	12.70	104.13	47.28	155.12	XS	30	900	6210	1050	7240
			0.594	15.09	123.11	55.91	183.42	-	40	1170	8070	1250	8620
			0.812	20.62	166.40	75.54	247.83	-	60	1460	10070	1710	11790
			1.031	26.19	208.87	94.84	311.17	-	80	1860	12820	2170	14960
			1.281	32.54	256.10	116.29	381.53	-	100	2310	15930	2690	18550
			1.500	38.10	296.37	134.57	441.49	-	120	2700	18620	2800	19310
			1.750	44.45	341.10	154.87	508.11	-	140	2800	19310	2800	19310
			1.969	50.01	379.10	172.15	564.81	-	160	2800	19310	2800	19310
24	24.000	609.6	0.250	6.35	63.41	28.79	94.46	-	10	380	2620	440	3030
			0.281	7.14	71.18/	32.33	106.08	-	-	420	2900	490	3380
			0.312	7.92	78.93	35.82	117.51	-	-	470	3240	550	3790
			0.344	8.74	86.91	39.47	129.50	-	-	520	3590	600	4140
			0.375	9.52	94.62	42.94	140.88	STD	20	560	3860	660	4550
			0.406	10.31	102.31	46.44	152.37	-	-	610	4210	710	4900
			0.438	11.13	110.22	50.07	164.26	-	-	660	4550	770	5310
			0.469	11.91	117.86	53.50	175.54	-	-	700	4830	820	5650
			0.500	12.70	125.49	56.98	186.94	XS	-	750	5170	880	6070
			0.562	14.27	140.68	63.86	209.50	-	30	840	5790	980	6760
			0.688	17.48	171.29	77.80	255.24	-	40	1030	7100	1200	8270
			0.938	23.83	231.03	104.92	344.23	-	-	1410	9720	1640	11310
			0.969	24.61	238.85	108.21	355.02	-	60	1450	10000	1700	11720
			1.219	30.96	296.58	134.65	441.78	-	80	1830	12620	2130	14690
			1.531	38.89	367.39	166.83	547.33	-	100	2300	15860	2680	18480
			1.812	46.02	429.39	194.94	639.58	-	120	2720	18750	2800	19310
			2.062	52.37	483.12	219.34	719.63	-	140	2800	19310	2800	19310
			2.344	59.54	542.14	246.17	807.63	-	160	2800	19310	2800	19310

Dimension Tolerances:
Permissible Variation
Outside Diameter : 1.1/2" and under +/- 1/64" (0.4 mm.)
: 2" and over +/ - 1%
Wall Thickness : - 12.5% + Not Specified

SPS PIPES

JIS G 3452

CARBON STEEL PIPE FOR ORDINARY PIPING

Nominal Size		Outside Diameter		Wall Thickness		Weight (Plain End)		
(A)	(B)	mm	in.	mm	in.	lb/ft	kg/ft	kg/m
15	1/2	21.7	0.854	2.8	0.110	0.88	0.399	1.31
20	3/4	27.2	1.071	2.8	0.110	1.13	0.512	1.68
25	1	34.0	1.338	3.2	0.126	1.63	0.741	2.43
32	$1^{1/4}$	42.7	1.681	3.5	0.138	2.27	1.03	3.38
40	$1^{1/2}$	48.6	1.913	3.5	0.138	2.61	1.19	3.89
50	2	60.5	2.382	3.8	0.150	3.57	1.62	5.31
65	$2^{1/2}$	76.3	3.004	4.2	0.165	5.02	2.28	7.47
80	3	89.1	3.508	4.2	0.165	5.91	2.68	8.79
90	$3^{1/2}$	101.6	4.000	4.2	0.165	6.79	3.08	10.1
100	4	114.3	4.500	4.5	0.177	8.20	3.72	12.2
125	5	139.8	5.504	4.5	0.177	10.1	4.57	15.0
150	6	165.2	6.504	5.0	0.197	13.3	6.04	19.8
175	7	190.7	7.508	5.3	0.209	16.3	7.38	24.2
200	8	216.3	8.516	5.8	0.288	20.2	9.17	30.1
225	9	241.8	9.520	6.2	0.244	24.2	11.0	36.0
250	10	267.4	10.528	6.6	0.260	28.5	12.9	42.4
300	12	318.5	12.539	6.9	0.272	35.6	16.2	53.0
350	14	355.6	14.000	7.9	0.311	45.5	20.6	67.7
400	16	406.4	16.000	7.9	0.311	52.1	23.7	77.6
450	18	457.2	18.000	7.9	0.311	58.7	26.7	87.5
500	20	508.0	20.000	7.9	0.311	65.4	29.7	97.4

Dimension Tolerances:
Permissible Variation
Outside Diameter : 1.1/2" and under +/- 1/64" (0.4 mm.)
: 2" and over +/ - 1%
Wall Thickness : - 12.5% + Not Specified

Note : For the designation of diameter, (A) or (B) shall be used. When (A) or (B) is used, put an A or B mark, respectively, after each figure for the purpose of classification.