

SABS 719 PIPING

STEEL TO SABS 719/71 GRADE A

Test pressures in bar

Nominal Bore mm	Outside Diameter mm	Wall Thickness (mm)							
		4.0	4.5	5.0	6.0	8.0	10.0	12.0	14.0
200	219.1	56.7	63.8	70.9	85.0	113.4	141.7	170.1	198.4
250	273.0	45.5	51.2	56.9	68.2	91.0	113.7	136.5	159.2
300	323.9	38.4	43.1	47.9	57.5	76.7	95.9	115.0	134.2
350	355.6	34.9	39.3	43.7	52.4	69.9	87.3	104.8	122.2
400	406.4	30.6	34.4	38.2	45.8	61.1	76.4	91.7	107.0
450	457.2	27.2	30.6	34.0	40.8	54.3	67.9	81.5	95.1
500	508.0	24.5	27.5	30.6	36.7	48.9	61.1	73.4	85.6
600	609.6	20.4	22.9	25.5	30.6	40.8	50.9	61.1	71.3
700	711.2	17.5	19.7	21.8	26.2	34.9	43.7	52.4	61.1
800	812.8	15.3	17.2	19.1	22.9	30.6	38.2	45.8	53.5
900	914.4	13.6	15.3	17.0	20.4	27.2	34.0	40.8	47.5
1000	1016.0	12.2	13.8	15.3	18.3	24.5	30.6	36.7	42.8

Yield stress of steel—207 MPa (30 000 p.s.i. min.).

Test pressures above are based on stressing steel to 75% of minimum specified yield stress and are applied only to plain ended pipes.

This table is subject to a maximum of 70 bar unless agreed upon.

STEEL TO SABS 719/71 GRADE B

Test pressures in bar

Nominal Bore mm	Outside Diameter mm	Wall thickness (mm)							
		4.0	4.5	5.0	6.0	8.0	10.0	12.0	14.0
200	219.1	66.0	74.3	82.5	99.0	132.0	165.0	198.0	231.0
250	273.0	53.0	59.6	66.2	79.5	105.9	132.4	158.9	185.4
300	323.9	44.6	50.2	55.8	67.0	89.3	111.6	133.9	156.3
350	355.6	40.7	45.8	50.8	61.0	81.3	101.7	122.0	142.3
400	406.4	35.6	40.0	44.5	53.4	71.2	89.0	106.7	124.5
450	457.2	31.6	35.6	39.5	47.4	63.3	79.1	94.9	110.7
500	508.0	28.5	32.0	35.6	42.7	56.9	71.2	85.4	99.6
600	609.6	23.7	26.7	29.7	35.6	47.4	59.3	71.2	83.0
700	711.2	20.3	20.9	25.4	30.1	40.7	50.8	61.0	71.2
800	812.8	17.8	20.0	22.2	26.7	35.6	44.5	53.4	62.3
900	914.4	15.8	17.8	19.8	23.7	31.6	39.5	47.4	55.4
1000	1016.0	14.2	16.0	17.8	21.4	28.5	35.6	42.7	49.8

Yield stress of steel—241 MPa (35 000 p.s.i.).

Test pressures above are based on stressing steel to 75% of minimum specified yield stress and are applied only to plain ended pipes.

This table is subject to a maximum of 70 bar unless agreed upon.

SABS 719 PIPING

Mass of Untreated Steel Pipe in Kilograms per Metre

Pipe outside diameters are to B.S. 534/1966; I.S.O./R336; B.S. 4504/1969; I.S.O./R2084
 The pipe outside diameters suit the metricated flanges of B.S. 4504/1969 and I.S.O./R2084

Nominal Diameter mm	Outside Diameter mm	Wall Thickness in Millimetres										
		4,0	4,5	5,0	6,0	8,0	10	12	14	16	20	22
200	219,1	22,5	24,9	27,7	33,1	43,6	54,2	64,6				
250	273	28,0	31,2	34,6	41,4	54,7	68,0	81,5	94	106		
300	323,9	33,2	37,1	41,3	49,3	65,2	81,3	97,5	113	127	158	
350	355,6	36,5	40,7	45,4	54,2	71,7	89,5	108	124	140	174	
400	406,4	41,7	46,6	52,0	62,1	82,2	103	123	143	161	200	
*	457,2		52,6	58,6	70,0	92,6	115	139	161	182	227	
500	508		58,5	65,1	78,0	103	129	155	179	203	253	
*	558,8		64,4	71,7	85,8	113	142	172	198	223	280	309
600	609,6		70,2	78,3	93,6	124	155	186	216	245	305	338
*	660,4		76,1	84,8	101	134	168	203	235	267	332	366
700	711,2		82,0	91,5	110	145	182	219	253	287	358	396
*	762			97,9	117	155	194	235	272	308	384	425
800	812,8			105	125	166	208	250	290	327	410	455
*	863,7			111	133	176	220	266	308	349	437	484
900	914,4			118	140	187	233	282	327	371	463	508
***	965,2			124	149	198	247	296	345	393	489	537
1000	1016			131	156	208	260	315	371	413	516	567
***	1067			137	165	219	274	327	381	435	542	594
**	1092				169	224	280	335	390	446	555	609
***	1118				173	230	287	344	400	455	569	624
1200	1220				188	251	313	375	437	499	621	682
**	1245				192	256	320	383	445	509	634	697
***	1397				216	288	359	430	501	572	713	783
1400	1420				220	292	365	437	510	587	725	796
**	1549,8					319	398	477	560	635	792	869
1600	1620					334	417	499	582	664	829	910
**	1708					352	440	527	614	701	874	960
1800	1820					375	469	562	655	747	932	1024
**	1860						479	574	669	764	953	1046
2000	2020						520	624	726	830	1036	1138
***	2178						561	673	785	896	1118	1228
2200	2230						575	689	803	917	1144	1257

- * Non preferred pipe sizes in B.S.534/1966 that are not in B.S.4504/1969.I.S.O./R2084 gives flange mating sizes.
 - ** Non preferred pipe sizes in B.S.534/1966 that have no flanges in B.S.4504 or I.S.O./R2084.
 - *** Non preferred sizes.
- Pipe weights tabulated are 5% greater than theoretical weight.