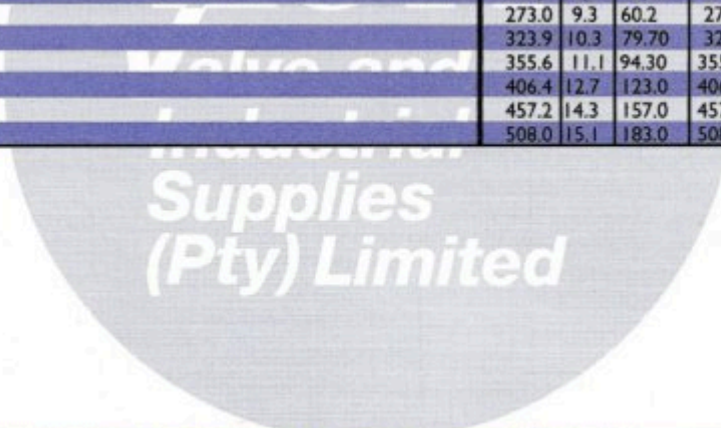




PIPING - STEEL



mm	SABS 62 : 1971 MEDIUM					SABS 62 : 1971 HEAVY					ASTMA 10 6 GRADE B SEAMLESS								
	NOM BORE	O/D m.m	WALL m.m	WT/M kg	MAX. W.P. kPa		O/D m.m	WALL m.m	WT/M kg	MAX. W.P. kPa		SCHEDULE 40			SCHEDULE 80			Max W.P. @ 340°C	
					Water	Steam Air-Gas				Water	Steam Air-Gas	O/D mm	Wall mm	WT/M kg	O/D mm	Wall mm	WT/M kg	Sch 40	Sch 80
8	13.5	2.05	.596	2100	1050		2.54	.765	2400	1200									
10	17.2	2.05	.888	2100	1050	17.2	2.54	1.055	2400	1200									
15	21.3	2.32	1.214	2100	1050	21.3	2.84	1.418	2400	1200	21.3	2.8	1.26	21.3	3.7	1.62	11.6	20.9	
20	26.9	2.32	1.572	2100	1050	26.9	2.84	1.847	2400	1200	26.7	2.9	1.68	26.7	3.9	2.19	10.0	17.8	
25	33.7	2.84	2.395	2100	1050	33.7	3.54	2.955	2400	1200	33.4	3.4	2.50	33.4	4.5	3.23	10.8	17.9	
32	42.4	2.84	3.076	1700	850	42.4	3.54	3.813	2100	1050	42.2	3.4	3.38	42.2	4.9	4.46	7.4	13.4	
40	48.3	2.84	3.509	1700	850	48.3	3.54	4.359	2100	1050	48.3	3.7	4.05	48.3	5.1	5.4	7.0	12.5	
50	60.3	3.19	5.125	1400	700	60.3	3.94	6.069	1700	850	60.3	3.9	5.43	60.3	5.5	7.47	6.2	11.4	
65	76.1	3.19	6.574	1400	700	76.1	3.94	7.804	1700	850	73.0	5.2	8.62	73.0	7.0	11.40	8.4	13.3	
80	88.9	3.54	8.389	1400	700	88.9	4.24	9.839	1700	850	88.9	5.5	11.30	88.9	7.6	15.30	7.5	12.2	
100	114.3	3.94	12.010	1400	550	114.3	4.73	14.172	1400	700	114.3	6.0	15.10	114.3	8.6	22.30	6.7	11.0	
125	139.7	4.24	15.868	1400	550	139.7	4.73	17.563	1400	700	141.3	6.6	21.80	141.3	9.5	30.90	6.1	10.1	
150	165.1	4.24	18.931	1050	400	165.1	4.73	20.964	1050	550	168.3	7.1	28.20	168.3	11.0	42.50	5.7	10.1	
200											219.1	8.2	42.50	219.1	12.7	64.60	5.3	9.2	
250											273.0	9.3	60.2	273.0	15.1	95.80	5.0	9.0	
300											323.9	10.3	79.70	323.9	17.5	132.0	4.7	9.0	
350											355.6	11.1	94.30	355.6	19.0	158.0	4.7	9.0	
400											406.4	12.7	123.0	406.4	21.4	203.0	4.9	9.0	
450											457.2	14.3	157.0	457.2	23.8	254.0	5.0	9.0	
500											508.0	15.1	183.0	508.0	26.2	311.0	4.7	9.0	



SABS 719/71 GRADE B (100°C MAX)					
	O/D m.m	4.5 mm WALL		6 mm WALL	
		WT/M kg	Test Press kPa	WT/M kg	Test Press K Pa
200	219.1	24.9	7090	33.1	11340
250	273.0	31.2	5120	41.4	6820
300	323.9	37.1	4310	49.3	5750
350	355.6	40.7	3930	54.2	5240
400	406.4	46.6	3440	62.1	4580
450	457.2	52.6	3060	70.0	4080
500	508.0	58.5	2750	78.0	3670

460/0 TUBES CLASS 0

Available in 5,5 metre (hard drawn) straight lengths only.

A hard drawn thin walled tube for use without bending..

Recommended for use with capillary soldered fittings in above ground installations only.

The tube is identified by yellow end caps and is marked every half metre by the brand name and SABS 460 O/D Class 0.

Nominal Size of Tube mm	Outside Diameter		Wall Thickness Class 0 (mm)	Theoretical Mass kg/m Class 0	Maximum Working Pressure MPa Class 0
	Max (mm)	Min (mm)			
15	15,045	14,955	0,50	0,203	4,80
22	22,055	21,945	0,60	0,360	3,93
28	28,055	27,945	0,60	0,460	3,09
35	35,070	34,930	0,75	0,719	3,09
42	42,070	41,930	0,90	1,036	3,09
54	54,070	53,930	1,20	1,774	3,20
67	66,750	66,600	1,50	2,751	3,22
76	76,070	76,030	1,70	3,537	3,22
108	108,070	107,930	2,30	6,807	3,07

460/1 TUBES CLASS I (Light)

Available in 5,5 metre straight lengths only, half hard.

A thin walled tube in a half hard condition which should be bent only with benders which have inner and outer formers.

Recommended for use with both capillary soldered and compression fittings in above ground installations.

The tube is identified by orange end caps and is marked every half metre by the brand name and SABS 460 O/D Class 1.

Nominal Size of Tube mm	Outside Diameter		Wall Thickness Class I Light (mm)	Theoretical Mass kg/m Class I	Maximum Working Pressure MPa Class I
	Max (mm)	Min (mm)			
15	15,045	14,955	0,70	0,280	5,13
22	22,055	21,945	0,90	0,532	4,50
28	28,055	27,945	0,90	0,683	3,54
35	35,070	34,930	1,20	1,136	3,77
42	42,070	41,930	1,20	1,371	3,14
54	54,070	53,930	1,20	1,774	2,44
67	66,750	66,600	1,50	2,751	2,46
76	76,070	76,030	1,70	3,537	2,46
108	108,070	107,930	2,30	6,807	2,34

460/2 TUBES CLASS 2 (Medium)

Available in 5,5 metre straight lengths, half hard.

460/2 DC Sizes up to 22mm available in annealed coils 16m in length. For maximum working pressure for annealed coils multiply by 0.83.

A half hard tube with excellent bending qualities.

Recommended for use with both capillary soldered fittings and compression fittings below ground.

The tube is identified by brown end caps and is marked every half metre by the brand name and SABS 460 O/D Class 2.

Nominal Size of Tube mm	Outside Diameter		Wall Thickness Class 2 Med. (mm)	Theoretical Mass kg/m Class 2	Maximum Working Pressure MPa Class 2
	Max (mm)	Min (mm)			
15	15,045	14,955	1,0	0,392	7,33
22	22,055	21,945	1,0	0,588	5,00
28	28,055	27,945	1,2	0,900	4,71
35	35,070	34,930	1,5	1,407	4,71
42	42,070	41,930	1,5	1,701	3,93
54	54,070	53,930	2,0	2,912	4,07
67	66,750	66,600	2,0	3,640	3,28
76	76,070	76,030	2,0	4,150	2,89
108	108,070	107,930	2,5	7,385	2,55

460/3 TUBES CLASS 3 (Heavy)

Designed for underground plumbing services - available in 5,5 metre straight lengths, half hard.

460/3 UC Sizes up to 22mm available in annealed coils 16m in length. For maximum working pressure multiply above figure by factor 0.83.

A heavy walled tube used underground under very special conditions.

The tube is identified by markings every half metre of the brand name and SABS 460 O/D Class 3. (Note Class 3 has no end caps).

Nominal Size of Tube mm	Outside Diameter		Wall Thickness Class 3 Heavy (mm)	Theoretical Mass kg/m Class 3	Maximum Working Pressure MPa Class 3 Half Hard
	Max (mm)	Min (mm)			
15	15,045	14,955	1,2	0,464	8,80
22	22,055	21,945	1,5	0,861	7,50
28	28,055	27,945	1,5	1,113	5,89
35	35,070	34,930	2,0	1,848	6,29
42	42,070	41,930	2,0	2,240	5,24
54	54,070	53,930	2,5	3,605	5,09
67	66,750	66,600	2,5	4,515	4,10
76	76,070	76,030	2,5	5,152	3,61
108	108,070	107,930	3,2	9,390	3,26

Dimensions of Pipe to SABS 966

Outside Diameter mm	Class 4		Class 6		Class 9		Class 12		Class 16	
	Working pressure 400 kPa		Working pressure 600 kPa		Working pressure 900 kPa		Working pressure 1200 kPa		Working pressure 1600 kPa	
	Head of water 40 m		Head of water 60 m		Head of water 90 m		Head of water 120 m		Head of water 160 m	
	Wall thickness (min.) mm	Mass (approx.) kg/m	Wall thickness (min.) mm	Mass (approx.) kg/m	Wall thickness (min.) mm	Mass (approx.) kg/m	Wall thickness (min.) mm	Mass (approx.) kg/m	Wall thickness (min.) mm	Mass (approx.) kg/m
16	1.5	0.11	1.5	0.11	1.5	0.11	1.5	0.11	1.5	0.15
20	1.5	0.15	1.5	0.15	1.5	0.15	1.5	0.15	1.5	0.23
25	1.5	0.19	1.5	0.19	1.5	0.19	1.5	0.19	1.9	0.36
32	1.5	0.24	1.5	0.24	1.5	0.24	1.9	0.29	2.4	0.56
40	1.5	0.30	1.5	0.30	1.8	0.36	2.3	0.45	3.0	0.86
50	1.5	0.38	1.5	0.38	2.2	0.54	2.9	0.69	3.7	1.37
63	1.5	0.49	1.9	0.60	2.8	0.85	3.6	1.08	4.7	1.94
75	1.5	0.58	2.2	0.83	3.3	1.20	4.3	1.53	5.6	2.77
90	1.8	0.82	2.7	1.20	3.9	1.68	5.1	2.17	6.7	4.14
110	2.2	1.23	3.2	1.74	4.8	2.52	6.3	3.26	8.2	5.32
125	2.5	1.57	3.7	2.26	5.4	3.23	7.1	4.17	9.3	6.66
140	2.8	1.95	4.1	2.82	6.1	4.08	8.0	5.22	10.4	8.67
160	3.2	2.56	4.7	3.65	6.9	5.24	9.1	6.78	11.9	10.99
180	3.6	3.12	5.3	4.64	7.8	6.65	10.2	8.57	13.4	13.43
200	4.0	3.93	5.9	5.70	8.7	8.24	11.4	10.62	14.9	17.09
225	4.4	4.89	6.6	7.17	9.7	10.34	12.8	13.38	16.7	21.13
250	4.9	6.00	7.3	8.82	10.8	12.75	14.2	16.51	18.6	25.45
280	5.5	7.55	8.2	11.08	12.1	16.03	15.9	20.65	20.8	33.48
315	6.2	9.57	9.2	13.96	13.6	20.21	17.9	26.13	23.4	42.54
355	7.0	12.09	10.4	17.74	15.3	25.63	20.1	33.11	26.4	63.42
400	7.9	15.36	11.7	22.44	17.3	32.61	22.7	42.05	29.7	

LDPE POLY TYPE I SABS 533 Polyethylene Pipes 15mm - 80mm

Nominal Size mm	Inside Diameter mm		Wall Thickness mm Min		Mass / m kg	
	Min.	Max.	Class 3	Class 6	Class 3	Class 6
15	15.7	16.0	1.60	1.60	0.10	0.10
20	20.5	20.9	1.60	2.10	0.12	0.16
25	26.5	27.0	1.60	2.80	0.15	0.27
32	34.7	34.6	1.70	3.50	0.21	0.43
40	40.0	40.8	2.00	4.20	0.28	0.60
50	51.2	52.1	2.60	5.30	0.46	0.95
65	61.8	62.9	3.10	6.50	0.66	1.40
80	77.2	78.3	3.80	8.10	0.98	2.17

HDPE POLY TYPE IV SABS 533 Polyethylene Pipes 20mm - 110mm

Nominal Size mm	Outside Diameter		Minimum Wall Thickness									
	Max.	Min.	Class 4		Class 6		Class 10		Class 12		Class 16	
			mm	kg	mm	kg	mm	kg	mm	kg	mm	kg
20	20.0	20.3	-	-	-	-	2.0	0.12	2.3	0.13	2.8	0.16
25	25.0	25.3	-	-	-	-	2.3	0.17	2.8	0.20	3.5	0.24
32	32.0	32.3	-	-	2.00	0.19	2.9	0.27	3.6	0.32	4.5	0.39
40	40.0	40.4	-	-	2.40	0.29	3.7	0.43	4.5	0.51	5.6	0.61
50	50.0	50.5	2.0	0.31	3.00	0.45	4.6	0.66	5.6	0.78	6.9	0.93
63	63.0	63.6	2.5	0.48	3.80	0.71	5.8	1.04	7.0	1.23	8.7	1.48
75	75.0	75.7	2.9	0.67	4.50	1.01	6.9	1.47	8.4	1.75	10.4	2.09
90	90.0	90.9	3.5	0.96	5.40	1.44	8.2	2.10	10.0	2.49	12.5	3.02
110	110.0	111.0	4.3	1.45	6.60	2.14	10.0	3.12	12.3	3.74	-	-

APPROXIMATE NUMBER OF JOINTS PER LITRE OF SOLVENT CEMENT

Size	16 - 25mm	32 - 50mm	63 - 90mm	110 - 160mm
Number of Joints	80	60	30	20

uPVC PLAIN ENDED PIPE