



STEEL FLANGES

Name: SABS 1123 flange

Size: DN 15-1200

Material: Carbon Steel, Stainless Steel

Process: Forged. Casted

Place of Origin: China (Mainland)

Standard: SABS 1123

Name: BS 10 Flange

Size: DN 15-1200

Material: Carbon Steel, Stainless Steel

Process: Forged. Casted

Place of Origin: China (Mainland)

Standard: BS 10

Name: BS 4504 flange

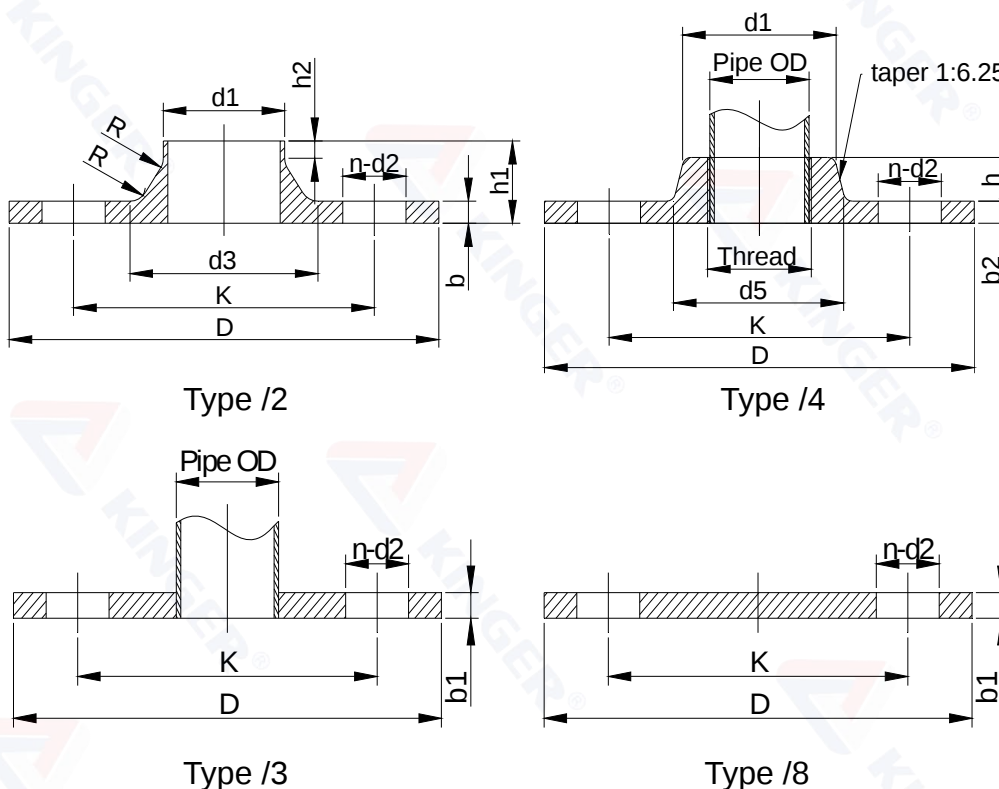
Size: DN 15-1200

Material: Carbon Steel, Stainless Steel

Process: Forged. Casted

Place of Origin: China (Mainland)

Standard: BS 4504



15mm Nominal Bore.Pipe OD 21.3																
Table		Flange						Bolting	Drilling			Neck			Boss	Mass
		D	b	b ₁	b ₂	h	h ₁		n(No.)	d ₂	k	d ₃	h ₂ ≈	r	d ₅	kg
BS4504	6/3	80	12	12	12	20	30	M10	4	11	55	30	6	4	30	0.35
	10/3	95	14	14	14	20	35	M12	4	14	65	32	6	4	35	0.59
	16/3	95	14	14	14	20	35	M12	4	14	65	32	6	4	35	0.59
	25/3	95	16	16	16	22	38	M12	4	14	65	32	6	4	35	0.69
	40/3	95	16	16	16	22	38	M12	4	14	65	32	6	4	35	0.69
SABS1123	600/3	80	8	10	8	16	30	M10	4	11	55	30	6	4	30	0.29
	1000/3	95	8	10	8	14	35	M12	4	14	65	32	6	4	35	0.42
	1600/3	95	8	10	8	14	35	M12	4	14	65	32	6	4	35	0.42
	1600/4	95	-	-	8	6	-	M12	4	14	65	-	-	-	35	0.42
	1600/8	95	-	10	-	-	-	M12	4	14	75	-	-	-	-	
	2500/3	95	14	14	11	14	38	M12	4	14	65	32	6	4	35	0.6
	4000/3	95	14	14	14	20	38	M12	4	14	65	32	6	4	35	0.6
BS 10	T/D	95	-	4.8	4.8	9.5	-	12.7	4	14.3	67	38	-	-	-	0.67
	T/E	95	-	6.3				12.7	4	14.3	67					0.67
	T/F	95	-	9.5				12.7	4	14.3	67					0.67



20mm Nominal Bore.Pipe OD 26.9

Table		Flange						Boltin g	Drilling			Neck			Boss d ₅	Mass kg
		D	b	b ₁	b ₂	h	h ₁		n(No.)	d ₂	k	d ₃	h ₂ ≈	r		
BS4504	6/3	90	14	14	14	24	32	M10	4	11	65	38	6	4	40	0.53
	10/3	105	16	16	16	24	38	M12	4	14	75	40	6	4	45	0.85
	16/3	105	16	16	16	24	38	M12	4	14	75	40	6	4	45	0.85
	25/3	105	18	18	18	26	40	M12	4	14	75	40	6	4	45	0.97
	40/3	105	18	18	18	26	40	M12	4	14	75	40	6	4	45	0.97
SABS1123	600/3	90	8	10	8	18	32	M10	4	11	65	38	6	4	40	0.38
	1000/3	105	8	10	8	16	38	M12	4	14	75	40	6	4	45	0.53
	1600/3	105	8	10	8	16	38	M12	4	14	75	40	6	4	45	0.53
	1600/4	105	-	-	8	16	-	M12	4	14	75	-	-	-	45	0.55
	1600/8	105	-	10	-	-	-	M12	4	14	75	-	-	-	-	-
	2500/3	105	14	14	11	16	40	M12	4	14	75	40	6	4	45	0.75
	4000/3	105	14	14	14	22	40	M12	4	14	75	40	6	4	45	0.75
BS 10	T/D	101.6		4.8	4.8	11.1		12.7	4	14	73	45				0.76
	T/E	101.6		6.3	-			12.7	4	14	73					0.76
	T/F	101.6		9.5	-			12.7	4	14	73					0.76

25mm Nominal Bore.Pipe OD 33.7

Table		Flange						Boltin g	Drilling			Neck			Boss d ₅	Mass kg
		D	b	b ₁	b ₂	h	h ₁		n(No.)	d ₂	k	d ₃	h ₂ ≈	r		
BS4504	6/3	100	14	14	14	24	35	M10	4	11	75	42	6	4	50	0.65
	10/3	115	16	16	16	24	38	M12	4	14	85	46	6	4	52	1
	16/3	115	16	16	16	24	38	M12	4	14	85	46	6	4	52	1
	25/3	115	18	18	18	28	40	M12	4	14	85	46	6	4	52	1.2
	40/3	115	18	18	18	28	40	M12	4	14	85	46	6	4	52	1.2
SABS1123	600/3	100	8	10	8	18	35	M10	4	11	75	42	6	4	50	0.46
	1000/3	115	8	10	8	16	38	M12	4	14	85	46	6	4	52	0.63
	1600/3	115	8	10	8	16	38	M12	4	14	85	46	6	4	52	0.63
	1600/4	115	-	-	8	16	-	M12	4	14	85	-	-	-	52	0.65
	1600/8	115	-	10	-	-	-	M12	4	14	85	-	-	-	-	-
	2500/3	115	16	16	12	16	40	M12	4	14	85	46	6	4	52	1.07
	4000/3	115	16	16	16	26	40	M12	4	14	85	46	6	4	52	1.07
BS 10	T/D	114.3		4.8	4.8	11.1		12.7	4	14	83	52				0.97
	T/E	114.3		7.1	-			12.7	4	14	83					0.94
	T/F	120.6		9.5	-			15.9	4	18	87					1.03



32mm Nominal Bore.Pipe OD 42.4

Table		Flange						Boltin g	Drilling			Neck			Boss	Mass
		D	b	b ₁	b ₂	h	h ₁		n(No.)	d ₂	k	d ₃	h ₂ ≈	r	d ₅	kg
BS4504	6/3	120	14	16	14	26	35	M12	4	14	90	55	6	6	60	1.1
	10/3	140	16	16	16	26	40	M16	4	18	100	56	6	6	60	1.5
	16/3	140	16	16	16	26	40	M16	4	18	100	56	6	6	60	1.5
	25/3	140	18	18	18	30	42	M16	4	18	100	55	6	6	60	1.7
	40/3	140	18	18	18	30	42	M16	4	18	100	55	6	6	60	1.7
SABS1123	600/3	120	8	10	8	20	35	M12	4	14	90	55	6	6	60	0.69
	1000/3	140	10	10	10	20	40	M16	4	18	100	56	6	6	60	0.94
	1600/3	140	10	10	10	20	40	M16	4	18	100	56	6	6	60	0.94
	1600/4	140	-	-	10	20	-	M16	4	18	100	-	-	-	60	1.15
	1600/8	140	-	10	-	-	-	M16	4	18	100	-	-	-	-	-
	2500/3	140	18	18	14	20	42	M16	4	18	100	55	6	6	60	1.7
	4000/3	140	18	18	18	30	42	M16	4	18	100	55	6	6	60	1.7
BS 10	T/D	120.7		6.3	6.3	11		12.7	4	14	87.3	57.9				0.98
	T/E	120.7		7.9	-			12.7	4	14	87.3					0.98
	T/F	133.3		13	-			15.9	4	18	98.4					1.21

40mm Nominal Bore.Pipe OD 48.3

Table		Flange						Boltin g	Drilling			Neck			Boss	Mass
		D	b	b ₁	b ₂	h	h ₁		n(No.)	d ₂	k	d ₃	h ₂ ≈	r	d ₅	kg
BS4504	6/3	130	14	16	14	26	38	M12	4	14	100	62	7	6	70	1.2
	10/3	150	16	16	16	26	42	M16	4	18	110	64	7	6	70	1.6
	16/3	150	16	16	16	26	42	M16	4	18	110	64	7	6	70	1.6
	25/3	150	18	20	18	32	45	M16	4	18	110	64	7	6	70	2.1
	40/3	150	18	20	18	32	45	M16	4	18	110	64	7	6	70	2.1
SABS1123	600/3	130	8	10	8	20	38	M12	4	14	100	62	7	6	70	0.75
	1000/3	150	10	10	10	20	42	M16	4	18	110	64	7	6	70	1
	1600/3	150	10	10	10	20	42	M16	4	18	110	64	7	6	70	1
	1600/4	150	-	-	10	20	-	M16	4	18	110	-	-	-	70	1.34
	1600/8	150	-	10	-	-	-	M16	4	18	110	-	-	-	-	-
	2500/3	150	18	20	14	20	45	M16	4	18	110	64	7	6	70	2.1
	4000/3	150	18	20	18	32	45	M16	4	18	110	64	7	6	70	2.1
BS 10	T/D	133.4		6.3	6.3	13		12.7	4	14	98.4	69.9				1.16
	T/E	133.4		8.7	-			12.7	4	14	98.4					1.16
	T/F	139.7		13	-			15.9	4	18	104.8					1.29



50mm Nominal Bore.Pipe OD 60.3

Table		Flange						Boltin g	Drilling			Neck			Boss	Mass
		D	b	b ₁	b ₂	h	h ₁		n(No.)	d ₂	k	d ₃	h ₂ ≈	r	d ₅	kg
BS4504	6/3	140	14	16	14	28	38	M12	4	14	110	74	8	6	80	1.3
	10/3	165	18	18	18	28	45	M16	4	18	125	75	8	6	85	2.2
	16/3	165	18	18	18	28	45	M16	4	18	125	75	8	6	85	2.2
	25/3	165	20	20	20	34	48	M16	4	18	125	75	8	6	85	2.5
	40/3	165	20	20	20	34	48	M16	4	18	125	75	8	6	85	2.5
SABS1123	600/3	140	8	10	8	22	38	M12	4	14	110	74	8	6	80	0.81
	1000/3	165	12	10	10	20	45	M16	4	18	125	75	8	6	85	1.22
	1600/3	165	12	12	12	22	45	M16	4	18	125	75	8	6	85	1.47
	1600/4	165	-	-	12	22	-	M16	4	18	125	-	-	-	85	1.93
	1600/8	165	-	12	-	-	-	M16	4	18	125	-	-	-	-	-
	2500/3	165	20	20	17	22	48	M16	4	18	125	75	8	6	85	2.5
	4000/3	165	20	20	20	34	48	M16	4	18	125	75	8	6	85	2.5
BS 10	T/D	152.4		7.9	7.9	13		15.9	4	18	114.3	79.4				1.47
	T/E	152.4		9.5	-			15.9	4	18	114.3					1.47
	T/F	165.1		16	-			15.9	4	18	127					2.23

65mm Nominal Bore.Pipe OD 76.1

Table		Flange						Boltin g	Drilling			Neck			Boss	Mass
		D	b	b ₁	b ₂	h	h ₁		n(No.)	d ₂	k	d ₃	h ₂ ≈	r	d ₅	kg
BS4504	6/3	160	14	16	14	32	38	M12	4	14	130	88	9	6	100	1.6
	10/3	185	18	18	18	32	45	M16	4	18	145	90	10	6	105	2.7
	16/3	185	18	18	18	32	45	M16	4	18	145	90	10	6	105	2.7
	25/3	185	22	22	22	38	52	M16	8	18	145	90	10	6	105	3.2
	40/3	185	22	22	22	38	52	M16	8	18	145	90	10	6	105	3.2
SABS1123	600/3	160	8	10	8	26	38	M12	4	14	130	88	9	6	100	1
	1000/3	185	12	12	12	26	45	M16	4	18	145	90	10	6	105	1.8
	1600/3	185	12	12	12	26	45	M16	4	18	145	90	10	6	105	1.8
	1600/4	185	-	-	12	26	-	M16	4	18	145	-	-	-	105	2.62
	1600/8	185	-	12	-	-	-	M16	4	18	145	-	-	-	-	-
	2500/3	185	22	22	17	26	52	M16	8	18	145	90	10	6	105	3.2
	4000/3	185	22	22	22	38	52	M16	8	18	145	90	10	6	105	3.2
BS 10	T/D	165.1		7.9	7.9	16		15.9	4	18	127	92.9				1.65
	T/E	165.1		10	-			15.9	4	18	127					1.65
	T/F	184.1		16	-			15.9	8	18	146					2.68



80mm Nominal Bore.Pipe OD 88.9

Table		Flange						Boltin g	Drilling			Neck			Boss	Mass
		D	b	b ₁	b ₂	h	h ₁		n(No.)	d ₂	k	d ₃	h ₂ ≈	r	d ₅	kg
BS4504	6/3	190	16	18	16	34	42	M16	4	18	150	102	10	8	110	2.6
	10/3	200	20	20	20	34	50	M16	8	18	160	105	10	8	118	3.3
	16/3	200	20	20	20	34	50	M16	8	18	160	105	10	8	118	3.3
	25/3	200	24	24	24	40	58	M16	8	18	160	105	12	8	118	4
	40/3	200	24	24	24	40	58	M16	8	18	160	105	12	8	118	4
SABS1123	600/3	190	10	10	14	28	42	M16	4	18	150	102	10	8	110	1.44
	1000/3	200	14	12	12	26	50	M16	8	18	160	105	10	8	118	1.98
	1600/3	200	14	14	14	28	50	M16	8	18	160	105	10	8	118	2.31
	1600/4	200	-	-	14	28	-	M16	8	18	160	-	-	-	118	3.2
	1600/8	200	-	14	-	-	-	M16	8	18	160	-	-	-	-	-
	2500/3	200	24	22	18	28	58	M16	8	18	160	105	12	8	118	3.67
	4000/3	200	24	22	24	40	58	M16	8	18	160	105	12	8	118	3.67
BS 10	T/D	184.1		9.5	9.5	16		15.9	4	18	146	112				1.96
	T/E	184.1		11	-			15.9	4	18	146					1.96
	T/F	203.2		16	-			15.9	8	18	165.1					3.17

100mm Nominal Bore.Pipe OD 114.3

Table		Flange						Boltin g	Drilling			Neck			Boss	Mass
		D	b	b ₁	b ₂	h	h ₁		n(No.)	d ₂	k	d ₃	h ₂ ≈	r	d ₅	kg
BS4504	6/3	210	16	18	16	40	45	M16	4	18	170	130	10	8	130	2.9
	10/3	220	20	20	20	40	52	M16	8	18	180	131	12	8	140	3.6
	16/3	220	20	20	20	40	52	M16	8	18	180	131	12	8	140	3.6
	25/3	235	24	26	24	44	65	M20	8	22	190	134	12	8	145	5.7
	40/3	235	24	26	24	44	65	M20	8	22	190	134	12	8	145	5.7
SABS1123	600/3	210	10	10	10	34	45	M16	4	18	170	130	10	8	130	1.6
	1000/3	220	14	12	12	32	52	M16	8	18	180	131	12	8	140	2.16
	1600/3	220	14	14	14	34	52	M16	8	18	180	131	12	8	140	2.52
	1600/4	220	-	-	14	34	-	M16	8	18	180	-	-	-	140	3.8
	1600/8	220	-	14	-	-	-	M16	8	18	180	-	-	-	-	-
	2500/3	235	24	25	21	34	65	M20	8	22	190	134	12	8	145	5.48
	4000/3	235	24	25	24	44	65	M20	8	22	190	134	12	8	145	5.48
BS 10	T/D	215.9		9.5	9.5	19		15.9	4	18	177.8	140				2.25
	T/E	215.9		13	-			15.9	8	18	177.8					2.25
	T/F	228.6		19	-			15.9	8	18	190.5					4.46



125mm Nominal Bore.Pipe OD 139.7

Table		Flange						Boltin g	Drilling			Neck			Boss	Mass
		D	b	b ₁	b ₂	h	h ₁		n(No.)	d ₂	k	d ₃	h ₂ ≈	r	d ₅	kg
BS4504	6/3	240	18	20	18	44	48	M16	8	18	200	155	10	8	160	3.9
	10/3	250	22	22	22	44	55	M16	8	18	210	156	12	8	168	5
	16/3	250	22	22	22	44	55	M16	8	18	210	156	12	8	168	5
	25/3	270	26	28	26	48	68	M24	8	26	220	162	12	8	170	7.7
	40/3	270	26	28	26	48	68	M24	8	26	220	162	12	8	170	7.7
SABS1123	600/3	240	13	12	13	39	48	M16	8	18	200	155	10	8	160	2.34
	1000/3	250	16	14	14	36	55	M16	8	18	210	156	12	8	168	3.18
	1600/3	250	16	16	16	38	55	M16	8	18	210	156	12	8	168	3.64
	1600/4	250	-	-	16	38	-	M16	8	18	210	-	-	-	168	5.5
	1600/8	250	-	16	-	-	-	M16	8	18	210	-	-	-	-	-
	2500/3	270	26	28	24	38	68	M24	8	26	220	162	12	8	170	7.7
	4000/3	270	26	28	26	48	68	M24	8	26	220	162	12	8	170	7.7
BS 10	T/D	254		13	13	19		15.9	8	18	209.6	171				3.48
	T/E	254		14	-			15.9	8	18	209.6					3.84
	T/F	279.4		22	-			19	8	22	234.9					7.81

150mm Nominal Bore.Pipe OD 168.3 OR 165.1(To be specified)

Table		Flange						Boltin g	Drilling			Neck			Boss	Mass
		D	b	b ₁	b ₂	h	h ₁		n(No.)	d ₂	k	d ₃	h ₂ ≈	r	d ₅	kg
BS4504	6/3	265	18	20	18	44	48	M16	8	18	225	184	12	10	185	4.4
	10/3	285	22	22	22	44	55	M20	8	22	240	184	12	10	195	6
	16/3	285	22	22	22	44	55	M20	8	22	240	184	12	10	195	6
	25/3	300	28	30	28	52	75	M24	8	26	250	192	12	10	200	9.7
	40/3	300	28	30	28	52	75	M24	8	26	250	192	12	10	200	9.7
SABS1123	600/3	265	13	12		39	48	M16	8	18	225	184	12	10	185	2.64
	1000/3	285	18	16		38	55	M20	8	22	240	184	12	10	195	4.36
	1600/3	285	18	18		40	55	M20	8	22	240	184	12	10	195	4.9
	1600/4	285	-	-	18	40	-	M20	8	22	240	-	-	-	195	7.4
	1600/8	285	-	18	-	-	-	M20	8	22	240	-	-	-	-	-
	2500/3	300	28	30	24	40	75	M24	8	26	250	192	12	10	200	9.7
	4000/3	300	28	30	28	52	75	M24	8	26	250	192	12	10	200	9.7
BS 10	T/D	279.4		13	13	19		15.9	8	18	235	197				3.88
	T/E	279.4		18	-			19	8	22	235					5.36
	T/F	304.8		22	-			19	12	22	260.4					8.71



200mm Nominal Bore.Pipe OD 219.1

Table		Flange						Boltin g	Drilling			Neck			Boss	Mass
		D	b	b ₁	b ₂	h	h ₁		n(No.)	d ₂	k	d ₃	h ₂ ≈	r	d ₅	kg
BS4504	6/3	320	20	22	20	44	55	M16	8	18	280	236	15	10	-	6.4
	10/3	340	24	24	24	44	62	M20	8	22	295	235	16	10	-	8.7
	16/3	340	24	24	24	44	62	M20	12	22	295	235	16	10	-	8.4
	25/3	360	30	28	30	52	80	M24	12	26	310	244	16	10	-	12
	40/3	375	34	34	34	52	88	M27	12	30	320	244	16	10	-	16
SABS1123	600/3	320	13	14		-	55	M16	8	18	280	236	15	10		6.21
	1000/3	340	18	18		-	62	M20	8	22	295	235	16	10	-	6.53
	1600/3	340	22	22		-	62	M20	12	22	295	235	16	10	-	7.7
	1600/4															
	1600/8	340	-	22	-	-	-	M20	12	22	295	-	-	-	-	-
	2500/3	360	30	30	-	-	80	M24	12	26	310	244	16	10	-	12
	4000/3	375	34	32	-	-	88	M24	12	26	320	244	16	10		15.1
BS 10	T/D	336.6		13	-			15.9	8	18	292.1					4.91
	T/E	336.6		19	-			19	12	22	292.1					7.59
	T/F	368.3		25	-			19	12	22	323.9					13.4

250mm Nominal Bore.Pipe OD 273

Table		Flange						Boltin g	Drilling			Neck			Boss	Mass
		D	b	b ₁	b ₂	h	h ₁		n(No.)	d ₂	k	d ₃	h ₂ ≈	r	d ₅	kg
BS4504	6/3	375	22	24	22	44	60	M16	12	18	335	290	15	12	-	8.5
	10/3	395	26	26	26	46	68	M20	12	22	350	292	16	12	-	11
	16/3	405	26	26	26	46	70	M24	12	26	355	292	16	12	-	12
	25/3	425	32	32	32	60	88	M27	12	30	370	298	18	12	-	17.5
	40/3	450	38	42	38	60	105	M30	12	33	385	306	18	12	-	28.5
SABS1123	600/3	375	16	16		-	60	M16	12	18	335	290	15	12	-	5.67
	1000/3	395	20	20		-	68	M20	12	22	350	292	16	12		8.46
	1600/3	405	24	25		-	70	M20	12	26	355	292	16	12	-	11.5
	1600/4															
	1600/8	405	-	25	-	-	-	M24	12	26	355	-	-	-	-	-
	2500/3	425	30	30	-	-	88	M24	12	26	370	298	18	12	-	16.4
	4000/3	450	38	38	-	-	105	M30	12	33	385	306	18	12	-	25.8
BS 10	T/D	406.4		16	-			19	8	19	355.6					8.7
	T/E	406.4		22	-			19	12	19	355.6					12.1
	T/F	431.8		29	-			22.2	12	22	381					19.2



300mm Nominal Bore.Pipe OD 323.9

Table		Flange						Boltin g	Drilling			Neck			Boss	Mass
		D	b	b ₁	b ₂	h	h ₁		n(No.)	d ₂	k	d ₃	h ₂ ≈	r	d ₅	kg
BS4504	6/3	440	22	24	22	44	62	M20	12	22	395	342	15	12	-	11
	10/3	445	26	26	26	46	68	M20	12	22	400	344	16	12	-	12.5
	16/3	460	28	28	28	46	78	M24	12	26	410	344	16	12	-	15.5
	25/3	485	34	38	34	67	92	M27	16	30	430	352	18	12		25.5
	40/3	515	42	50	42	67	115	M30	16	33	450	362	18	12	-	42
SABS1123	600/3	440	20	20		-	62	M20	12	22	395	342	15	12	-	9.17
	1000/3	445	22	22		-	68	M20	12	22	400	344	16	12		10.6
	1600/3	460	28	28		-	78	M20	12	26	410	344	16	12		15.5
	1600/4															
	1600/8	460	-	28	-	-	-	M24	12	26	410	-	-	-	-	-
	2500/3	485	34	32	-	-	92	M24	16	26	430	352	18	12		21.5
	4000/3	515	42	40	-	-	115	M30	16	33	450	362	18	12		33.6
BS 10	T/D	457.2		19	-			19	12	22	406.4					12.1
	T/E	457.2		25	-			22.2	12	25	406.4					16.1
	T/F	489		32	-			22.2	16	25	438.2					25.5

350mm Nominal Bore.Pipe OD 355.6

Table		Flange						Boltin g	Drilling			Neck			Boss	Mass
		D	b	b ₁	b ₂	h	h ₁		n(No.)	d ₂	k	d ₃	h ₂ ≈	r	d ₅	kg
BS4504	6/3	490	22	26	22	-	62	M20	12	22	445	385	15	12	-	15.5
	10/3	505	26	28	26	-	68	M20	16	22	460	385	16	12	-	19.5
	16/3	520	30	32	30	-	82	M24	16	26	470	390	16	12	-	24.5
	25/3	555	38	42	38	-	100	M30	16	33	490	398	20	12	-	40.5
	40/3	580	46	56	46	-	125	M33	16	36	510	408	20	12	-	63
SABS1123	600/3	490	22	22		-	62	M20	12	22	445	385	15	12	-	13.1
	1000/3	505	26	25		-	68	M20	16	22	460	385	16	12	-	17.4
	1600/3	520	30	30		-	82	M20	16	26	470	390	16	12	-	23
	1600/4															
	1600/8	520	-	30	-	-	-	M24	16	26	470	-	-	-	-	-
	2500/3	555	38	35	-	-	100	M30	16	33	490	398	20	12	-	33.8
	4000/3	580	46	45	-	-	125	M30	16	33	510	408	20	12	-	50.6
BS 10	T/D	527.1		22	-			22.2	12	25	469.9					18.8
	T/E	527.1		29	-			22.2	12	25	469.9					25.9
	T/F	552.5		35	-			25.4	16	29	495.3					36.2



400mm Nominal Bore.Pipe OD 406.4

Table		Flange						Boltin g	Drilling			Neck			Boss	Mass
		D	b	b ₁	b ₂	h	h ₁		n(No.)	d ₂	k	d ₃	h ₂ ≈	r	d ₅	kg
BS4504	6/3	540	22	28	22	-	65	M20	16	22	495	438	15	12	-	19
	10/3	565	26	32	26	-	72	M24	16	26	515	440	16	12	-	26.5
	16/3	580	32	36	32	-	85	M27	16	30	525	445	16	12	-	33
	25/3	620	40	46	40	-	110	M33	16	36	550	452	20	12	-	54
	40/3	660	50	64	50	-	135	M36	16	39	585	462	20	12	-	94
SABS1123	600/3	540	22	22	-	-	65	M20	16	22	495	438	15	12	-	14.9
	1000/3	565	26	25	-	-	72	M24	16	26	515	400	16	12	-	20.7
	1600/3	580	32	35	-	-	85	M24	16	26	525	445	16	12	-	32.1
	1600/4															
	1600/8	580	-	30	-	-	-	M24	16	26	525	-	-	-	-	-
	2500/3	620	40	40	-	-	110	M30	16	33	550	452	20	12	-	47
	4000/3	660	50	50	-	-	135	M36	16	39	585	462	20	12	-	73.4
BS 10	T/D	577.9		22	-			22.2	12	25	520.7					22.3
	T/E	577.9		32	-			22.2	12	25	520.7					32.6
	T/F	609.6		41	-			25.4	20	29	552.5					51.3

450mm Nominal Bore.Pipe OD 457.2

Table		Flange						Boltin g	Drilling			Neck			Boss	Mass
		D	b	b ₁	b ₂	h	h ₁		n(No.)	d ₂	k	d ₃	h ₂ ≈	r	d ₅	kg
BS4504	6/3	595	24	30	24	-	65	M20	16	22	550	492	15	12	-	24.5
	10/3	615	28	36	28	-	72	M24	20	26	565	492	16	12	-	36
	16/3	640	34	40	34	-	87	M27	20	30	585	496	16	12	-	48
	25/3	670	42	52	42	-	110	M33	20	36	600	505	20	12	-	75.3
	40/3														-	107
SABS1123	600/3	595	24	25	-	-	65	M20	16	22	550	492	15	12	-	20.4
	1000/3	615	28	30	-	-	72	M24	20	26	565	492	16	12	-	30
	1600/3	640	34	40	-	-	87	M24	20	26	585	496	16	12	-	48
	1600/4															
	1600/8	640	-	35	-	-	-	M24	20	26	585	-	-	-	-	-
	2500/3	670	42	45	-	-	110	M30	20	33	600	505	20	12	-	65.2
	4000/3	685	52	60	-	-	140	M36	20	39	610	510	20	12	-	100
BS 10	T/D	641.4		25	-			22.2	12	25	584.2					30.8
	T/E	641.4		35	-			22.2	16	25	584.2					42.9
	T/F	673		45	-			28.6	20	32	609.6					64.7



500mm Nominal Bore.Pipe OD 508

Table		Flange						Boltin g	Drilling			Neck			Boss	Mass
		D	b	b ₁	b ₂	h	h ₁		n(No.)	d ₂	k	d ₃	h ₂ ≈	r	d ₅	kg
BS4504	6/3	645	24	30	24	-	68	M20	20	22	600	538	15	12	-	25.5
	10/3	670	28	38	28	-	75	M24	20	26	620	542	16	12	-	39
	16/3	715	34	44	34	-	90	M30	20	33	650	548	16	12	-	60
	25/3	730	44	58	44	-	125	M33	20	36	660	558	20	12	-	86
	40/3	755	52	72	52	-	140	M39	20	42	670	562	20	12	-	120
SABS1123	600/3	645	24	25		-	68	M20	20	22	600	538	15	12	-	21.3
	1000/3	670	28	32		-	75	M24	20	26	620	542	16	12		32.8
	1600/3	715	34	40		-	90	M30	20	33	650	548	16	12		54.6
	1600/4															
	1600/8	715	-	40	-	-	-	M30	20	33	650	-	-	-	-	-
	2500/3	730	44	50	-	-	125	M30	20	33	660	558	20	12		74.1
	4000/3	755	52	70	-	-	140	M36	20	39	670	562	20	12		117
BS 10	T/D	704		29	-			22.2	16	25	641.4					41.1
	T/E	704.9		38	-			22.2	16	25	641.4					55.8
	T/F	736.6		51	-			28.6	24	32	673.1					87.1

600mm Nominal Bore.Pipe OD 609.6

Table		Flange						Boltin g	Drilling			Neck			Boss	Mass
		D	b	b ₁	b ₂	h	h ₁		n(No.)	d ₂	k	d ₃	h ₂ ≈	r	d ₅	kg
BS4504	6/3	755	24	32	24	-	70	M24	20	26	705	640	16	12	-	33
	10/3	780	28	42	28	-	80	M27	20	30	725	642	18	12	-	53
	16/3	840	36	52	36	-	95	M33	20	36	770	652	18	12	-	94
	25/3	845	46	66	46	-	125	M36	20	39	770	660	20	12	-	120
	40/3	890	-	84	-	-	-	M45	20	48	795	-	-	-	-	193
SABS1123	600/3	755	24	30		-	70	M24	20	26	705	640	16	12	-	30.9
	1000/3	780	28	38		-	80	M24	20	26	725	642	18	12	-	48
	1600/3	840	36	50		-	95	M30	20	33	770	652	18	12		90.4
	1600/4															
	1600/8															
	2500/3	845	46	60	-	-	125	M36	20	39	770	660	20	12		109
	4000/3	-	-	-	-	-	-	-	-	-	-	-	-	-		-
BS 10	T/D	825.5		32	-			25.4	16	29	755.7					60.3
	T/E	825.5		48	-			28.6	16	32	755.7					89.3
	T/F	850.9		57	-			31.8	24	35	781.1					123



700mm Nominal Bore.Pipe OD 711.2

Table		Flange						Boltin g	Drilling			Neck			Boss	Mass
		D	b	b ₁	b ₂	h	h ₁		n(No.)	d ₂	k	d ₃	h ₂ ≈	r	d ₅	kg
BS4504	6/3	860	-	34	-	-	-	M24	24	26	810	-	-	-	-	42
	10/3	895	-	46	-	-	-	M27	24	30	840	-	-	-	-	73
	16/3	910	-	58	-	-	-	M33	24	36	840	-	-	-	-	99
	25/3	960	-	74	-	-	-	M39	24	42	875	-	-	-	-	118
	40/3	995	-	96	-	-	-	M45	24	48	900	-	-	-	-	285
SABS1123	600/3	860	-	35	-	-	-	M24	24	26	810	-	-	-	-	43.3
	1000/3	895	-	45	-	-	-	M24	24	26	840	-	-	-	-	71.4
	1600/3	910	-	55	-	-	-	M30	24	33	840	-	-	-	-	93.9
	1600/4															
	1600/8															
	2500/3	-		-				-	-	-	-					-
	4000/3	-		-				-	-	-	-					-
BS 10	T/D	908.1		35	-			25.4	20	29	844.6					-
	T/E	908.1		51	-			28.6	20	32	844.6					-
	T/F	-		-	-			-	-	-	-					-

800mm Nominal Bore.Pipe OD 812.8

Table		Flange						Boltin g	Drilling			Neck			Boss	Mass
		D	b	b ₁	b ₂	h	h ₁		n(No.)	d ₂	k	d ₃	h ₂ ≈	r	d ₅	kg
BS4504	6/3	975	-	38	-	-	-	M27	24	30	920	-	-	-	-	58
	10/3	1015	-	52	-	-	-	M30	24	33	950	-	-	-	-	105
	16/3	1025	-	64	-	-	-	M36	24	39	950	-	-	-	-	135
	25/3	1085	-	82	-	-	-	M45	24	48	990	-	-	-	-	260
	40/3	1140	-	108	-	-	-	M52	24	45	1030	-	-	-	-	424
SABS1123	600/3	975	-	38	-	-	-	M24	24	26	920	-	-	-	-	58
	1000/3	1015	-	50	-	-	-	M30	24	33	950	-	-	-	-	101
	1600/3	1025	-	65	-	-	-	M36	24	39	950	-	-	-	-	137
	1600/4															
	1600/8															
	2500/3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4000/3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BS 10	T/D	-		-	-			-	-	-	-					-
	T/E	-		-	-			-	-	-	-					-
	T/F	-		-	-			-	-	-	-					-



900mm Nominal Bore.Pipe OD 914.4

Table		Flange						Boltin g	Drilling			Neck			Boss	Mass
		D	b	b ₁	b ₂	h	h ₁		n(No.)	d ₂	k	d ₃	h ₂ ≈	r	d ₅	kg
BS4504	6/3	1075	-	42	-	-	-	M27	24	30	1020	-	-	-	-	72
	10/3	1115	-	56	-	-	-	M30	28	33	1050	-	-	-	-	125
	16/3	1125	-	72	-	-	-	M36	28	39	1050	-	-	-	-	165
	25/3	1185	-	90	-	-	-	M45	28	48	1090	-	-	-	-	314
	40/3	1250	-	120	-	-	-	M52	28	56	1140	-	-	-	-	535
SABS1123	600/3	1075	-	40	-	-	-	M24	24	26	1020	-	-	-	-	68.6
	1000/3	1150	-	55	-	-	-	M30	28	33	1050	-	-	-	-	123
	1600/3	1125	-	70	-	-	-	M36	28	39	1050	-	-	-	-	160
	1600/4															
	1600/8															
	2500/3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4000/3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BS 10	T/D	1175		48	-			31.8	24	35	1092					156
	T/E	1175		64	-			31.8	24	35	1092					203
	T/F	-		-	-			-	-	-	-					-

1000mm Nominal Bore.Pipe OD 1016

Table		Flange						Boltin g	Drilling			Neck			Boss	Mass
		D	b	b ₁	b ₂	h	h ₁		n(No.)	d ₂	k	d ₃	h ₂ ≈	r	d ₅	kg
BS4504	6/3	1175	-	46	-	-	-	M27	28	30	1120	-	-	-	-	86
	10/3	1230	-	62	-	-	-	M33	28	36	1160	-	-	-	-	160
	16/3	1255	-	78	-	-	-	M39	28	42	1170	-	-	-	-	230
	25/3	1320	-	98	-	-	-	M52	28	56	1210	-	-	-	-	427
	40/3	1360	-	132	-	-	-	M52	28	56	1250	-	-	-	-	662
SABS1123	600/3	1175	-	45	-	-	-	M24	28	26	1120	-	-	-	-	84.1
	1000/3	1230	-	60	-	-	-	M30	28	33	1160	-	-	-	-	155
	1600/3	1255	-	75	-	-	-	M36	28	39	1170	-	-	-	-	221
	1600/4															
	1600/8															
	2500/3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4000/3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BS 10	T/D	1257		51	-			31.8	24	35	1175					167
	T/E	1257		67	-			34.9	24	38	1175					214
	T/F	-		-	-			-	-	-	-					-



1200mm Nominal Bore.Pipe OD 1220

Table		Flange						Boltin g	Drilling			Neck			Boss	Mass
		D	b	b ₁	b ₂	h	h ₁		n(No.)	d ₂	k	d ₃	h ₂ ≈	r	d ₅	kg
BS4504	6/3	1405	-	56	-	-	-	M30	32	33	1340	-	-	-	-	145
	10/3	1455	-	74	-	-	-	M36	32	39	1380	-	-	-	-	255
	16/3	1485	-	94	-	-	-	M45	32	48	1390	-	-	-	-	360
	25/3	1530	-	116	-	-	-	M52	32	56	1420	-	-	-	-	607
	40/3	1575	-	154	-	-	-	M56	32	62	1460	-	-	-	-	938
SABS1123	600/3	1405	-	55	-	-	-	M30	32	33	1340	-	-	-	-	142
	1000/3	1455	-	70	-	-	-	M36	32	39	1380	-	-	-	-	241
	1600/3	1485	-	85	-	-	-	M42	32	45	1390	-	-	-	-	326
	1600/4															
	1600/8															
	2500/3															-
	4000/3															-
BS 10	T/D	1492		60	-			31.8	32	35	1410					250
	T/E	1492		79	-			34.9	32	38	1410					321
	T/F	-		-	-			-	-	-	-					-