



TECHNICAL CENTRE

FLANGE TABLES

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SIZE: 1/2" 15mm									
FLANGE TYPE		FLANGE DIMENSIONS				BOLT INFORMATION			
STANDARD	CLASS	OUTSIDE Ø O.D.	RAISED FACE Ø	THICKNESS		BOLT CIRCLE Ø	No OF BOLTS	BOLT SIZE	FLANGE HOLE SIZE
				IRON	STEEL				
BS 10	D	95.3			4.8	66.8	4		14.5
	E	95.3			6.4	66.8	4		14.5
	F								
	H								
ANSI B16.5 1998	150	88.9	35.1		11.2	60.5	4	1/2"	15.7
	300	95.3	35.1		14.2	66.5	4	1/2"	15.7
	600	95.3	35.1		14.2	66.5	4	1/2"	15.7
	900	120.7	35.1		22.4	82.6	4	3/4"	22.4
	1500	120.7	35.1		22.4	82.6	4	3/4"	22.4
	2500	133.4	35.1		30.2	88.9	4	3/4"	22.4
BS 4504 1989 (PN6-40)	6	80	40	12	12	55	4	M10	11
	10	95	45	14	14	65	4	M12	14
	16	95	45	14	14	65	4	M12	14
	25	95	45	16	16	65	4	M12	14
	40	95	45	16	16	65	4	M12	14
DIN 2501-Pt 1 (PN6-100)	64	105	45		20	75	4	M12	14
	100	105	45		20	75	4	M12	14

SIZE: 3/4" 20mm									
FLANGE TYPE		FLANGE DIMENSIONS				BOLT INFORMATION			
STANDARD	CLASS	OUTSIDE Ø O.D.	RAISED FACE Ø	THICKNESS		BOLT CIRCLE Ø	No OF BOLTS	BOLT SIZE	FLANGE HOLE SIZE
				IRON	STEEL				
BS 10	D	101.6			4.8	66.8	4		14.5
	E	101.6			6.4	73.2	4		14.5
	F								
	H								
ANSI B16.5 1998	150	98.6	43		12.7	69.9	4	1/2"	15.7
	300	117.3	43		15.7	82.6	4	5/8"	19.1
	600	117.3	43		15.7	82.6	4	5/8"	19.1
	900	130	43		25.4	88.9	4	3/4"	22.4
	1500	130	43		25.4	88.9	4	3/4"	22.4
	2500	139.7	43		31.8	95.3	4	3/4"	22.4
BS 4504 1989 (PN6-40)	6	90	50	14	14	65	4	M10	11
	10	105	58	16	16	75	4	M12	14
	16	105	58	16	16	75	4	M12	14
	25	105	58	18	18	75	4	M12	14
	40	105	58	18	18	75	4	M12	14
DIN 2501-Pt 1 (PN6-100)	64	130	58		22	90	4	M16	18
	100	130	58		22	90	4	M16	18



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SIZE: 1" 25mm									
FLANGE TYPE		FLANGE DIMENSIONS				BOLT INFORMATION			
STANDARD	CLASS	OUTSIDE Ø O.D.	RAISED FACE Ø	THICKNESS		BOLT CIRCLE Ø	No OF BOLTS	BOLT SIZE mm	FLANGE HOLE SIZE
				IRON	STEEL				
BS 10	D	114.3			4.8	82.6	4		14.5
	E	114.3			7.2	82.6	4		14.5
	F								
	H								
ANSI B16.5 1998	150	108	50.8		14.2	79.2	4	1/2"	15.7
	300	124	50.8		17.5	88.9	4	5/8"	19.1
	600	124	50.8		17.5	88.9	4	5/8"	19.1
	900	149.4	50.8		28.4	101.6	4	7/8"	25.4
	1500	149.4	50.8		28.4	101.6	4	7/8"	25.4
	2500	158.8	50.8		35.1	108.0	4	7/8"	25.4
BS 4504 1989 (PN6-40)	6	100	60	14	14	75	4	M10	11
	10	115	68	16	16	85	4	M12	14
	16	115	68	16	16	85	4	M12	14
	25	115	68	18	18	85	4	M12	14
	40	115	68	18	18	85	4	M12	14
DIN 2501-Pt 1 (PN6-100)	64	140	68		24	100	4	M16	18
	100	140	68		24	100	4	M16	18

SIZE: 1 1/4" 32mm									
FLANGE TYPE		FLANGE DIMENSIONS				BOLT INFORMATION			
STANDARD	CLASS	OUTSIDE Ø O.D.	RAISED FACE Ø	THICKNESS		BOLT CIRCLE Ø	No OF BOLTS	BOLT SIZE mm	FLANGE HOLE SIZE
				IRON	STEEL				
BS 10	D	120.7			6.4	87.4	4		14.5
	E	120.7			7.9	87.4	4		14.5
	F								
	H								
ANSI B16.5 1998	150	117.3	63.5		15.7	88.9	4	1/2"	15.7
	300	133.4	63.5		19.1	98.6	4	5/8"	19.1
	600	133.4	63.5		20.6	98.6	4	5/8"	19.1
	900	158.8	63.5		28.4	111.3	4	7/8"	25.4
	1500	158.8	63.5		28.4	111.3	4	7/8"	25.4
	2500	184.2	63.5		38.1	130.0	4	1"	28.4
BS 4504 1989 (PN6-40)	6	120	70	16	16	90	4	M12	14
	10	140	78	18	16	100	4	M16	18
	16	140	78	18	16	100	4	M16	18
	25	140	78	20	18	100	4	M16	18
	40	140	78	20	18	100	4	M16	18
DIN 2501-Pt 1 (PN6-100)	64	155	78		24	110	4	M20	22
	100	155	78		24	110	4	M20	22



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SIZE: 1 1/2" 40mm									
FLANGE TYPE		FLANGE DIMENSIONS				BOLT INFORMATION			
STANDARD	CLASS	OUTSIDE Ø O.D.	RAISED FACE Ø	THICKNESS		BOLT CIRCLE Ø	No OF BOLTS	BOLT SIZE mm	FLANGE HOLE SIZE
				IRON	STEEL				
BS 10	D	133.4			6.4	98.6	4		14.5
	E	133.4			8.7	98.6	4		14.5
	F								
	H								
ANSI B16.5 1998	150	127.0	73.2		17.5	98.6	4	1/2"	15.7
	300	155.4	73.2		20.6	114.3	4	1/2"	22.4
	600	155.4	73.2		22.4	114.3	4	3/4"	22.4
	900	177.8	73.2		31.8	124.0	4	1"	28.4
	1500	177.8	73.2		31.8	124.0	4	1"	28.4
	2500	203.2	73.2		44.5	146.1	4	1 1/8"	31.8
BS 4504 1989 (PN6-40)	6	130	80	16	16	100	4	M12	14
	10	150	88	18	16	110	4	M16	18
	16	150	88	18	16	110	4	M16	18
	25	150	88	20	20	110	4	M16	18
	40	150	88	20	20	110	4	M16	18
DIN 2501-Pt 1 (PN6-100)	64	170	88		26	125	4	m20	22
	100	170	88		26	125	4	m20	22

SIZE: 2" 50mm									
FLANGE TYPE		FLANGE DIMENSIONS				BOLT INFORMATION			
STANDARD	CLASS	OUTSIDE Ø O.D.	RAISED FACE Ø	THICKNESS		BOLT	No OF BOLTS	BOLT	FLANGE
				IRON	STEEL				
BS 10	D	152.4			7.9	114.3	4		17.5
	E	152.4			9.5	114.3	4		17.5
	F								
	H								
ANSI B16.5 1998	150	152.4	91.9		19.1	120.7	4	5/8"	19.1
	300	165.1	91.9		22.4	127.0	8	5/8"	19.1
	600	165.1	91.9		25.4	127.0	8	5/8"	19.1
	900	215.9	91.9		38.1	165.1	8	7/8"	25.4
	1500	215.9	91.9		38.1	165.1	8	7/8"	25.4
	2500	235	91.9		50.8	171.5	8	1"	28.4
BS 4504 1989 (PN6-40)	6	140	90	16	16	110	4	M12	14
	10	165	102	20	18	125	4	M16	18
	16	165	102	20	18	125	4	M16	18
	25	165	102	22	20	125	4	M16	18
	40	165	102	22	20	125	4	M16	18
DIN 2501-Pt 1 (PN6-100)	64	180	102		26	135	4	M20	22
	100	195	102		28	145	4	M24	26



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FLANGE TABLES

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SIZE: 2 1/2" 65mm									
FLANGE TYPE		FLANGE DIMENSIONS				BOLT INFORMATION			
STANDARD	CLASS	OUTSIDE Ø O.D.	RAISED FACE Ø	THICKNESS		BOLT CIRCLE Ø	No OF BOLTS	BOLT SIZE mm	FLANGE HOLE SIZE
				IRON	STEEL				
BS 10	D	165.1			7.9	127.0	4		17.5
	E	165.1			10.3	127.0	4		17.5
	F								
	H								
ANSI B16.5 1998	150	177.8	104.6		22.4	139.7	4	5/8"	19.1
	300	190.5	104.6		25.4	149.4	8	3/4"	22.4
	600	190.5	104.6		28.4	149.4	8	3/4"	22.4
	900	244.3	104.6		41.1	190.5	8	1"	28.4
	1500	244.3	104.6		41.1	190.5	8	1"	28.4
	2500	266.7	104.6		57.2	196.9	8	1 1/8"	31.8
BS 4504 1989 (PN6-40)	6	160	110	16	16	130	4	M12	14
	10	185	122	20	18	145	4	M16	18
	16	185	122	20	18	145	4	M16	18
	25	185	122	24	22	145	8	M16	18
	40	185	122	24	22	145	8	M16	18
DIN 2501-Pt 1 (PN6-100)	64	205	122		26	160	8	M20	22
	100	220	122		30	170	8	M24	26

SIZE: 3" 80mm									
FLANGE TYPE		FLANGE DIMENSIONS				BOLT INFORMATION			
STANDARD	CLASS	OUTSIDE Ø O.D.	RAISED FACE Ø	THICKNESS		BOLT CIRCLE Ø	No OF BOLTS	BOLT SIZE mm	FLANGE HOLE SIZE
				IRON	STEEL				
BS 10	D	184.2			9.7	146.1	4		17.5
	E	184.2			11.1	146.1	4		17.5
	F								
	H								
ANSI B16.5 1998	150	190.5	127		23.9	152.4	4	5/8"	19.1
	300	209.6	127		28.4	168.1	8	3/4"	22.4
	600	209.6	127		31.8	168.1	8	3/4"	22.4
	900	241.3	127		38.1	190.5	8	7/8"	25.4
	1500	266.7	127		47.8	203.2	8	1 1/8"	31.8
	2500	304.8	127		66.5	228.6	8	1 1/4"	35.1
BS 4504 1989 (PN6-40)	6	190	128	18	18	150	4	M16	18
	10	200	138	22	20	160	8	M16	18
	16	200	138	22	20	160	8	M16	18
	25	200	138	26	24	160	8	M16	18
	40	200	138	26	24	160	8	M16	18
DIN 2501-Pt 1 (PN6-100)	64	215	138		30	170	8	M20	22
	100	230	138		34	180	8	M24	26



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SIZE: 4" 100mm									
FLANGE TYPE		FLANGE DIMENSIONS				BOLT INFORMATION			
STANDARD	CLASS	OUTSIDE Ø O.D.	RAISED FACE Ø	THICKNESS		BOLT	No OF BOLTS	BOLT	FLANGE
				IRON	STEEL				
BS 10	D	215.9			9.7	177.8	4		17.5
	E	215.9			12.7	177.8	4		17.5
	F								
	H								
ANSI B16.5 1998	150	228.6	157.2		23.9	190.5	8	5/8"	19.1
	300	254.0	157.2		31.8	200.2	8	3/4"	22.4
	600	273.1	157.2		38.1	215.9	8	7/8"	25.4
	900	292.1	157.2		44.5	235.0	8	1 1/8"	31.8
	1500	311.2	157.2		53.8	241.3	8	1 1/4"	35.1
	2500	355.6	157.2		76.2	273.1	8	1 1/2"	41.1
BS 4504 1989 (PN6-40)	6	210	148	18	18	170	4	M16	18
	10	220	158	24	20	180	8	M16	18
	16	220	158	24	20	180	8	M16	18
	25	235	162	28	26	190	8	M20	22
	40	235	162	28	26	190	8	M20	22
DIN 2501-Pt 1 (PN6-100)	64	250	162		32	200	8	M24	26
	100	265	162		36	210	8	M27	30

SIZE: 5" 125mm									
FLANGE TYPE		FLANGE DIMENSIONS				BOLT INFORMATION			
STANDARD	CLASS	OUTSIDE Ø O.D.	RAISED FACE Ø	THICKNESS		BOLT CIRCLE Ø	No OF BOLTS	BOLT SIZE mm	FLANGE HOLE SIZE
				IRON	STEEL				
BS 10	D	254.0			12.7	209.6	4		17.5
	E	254.0			14.3	209.6	4		17.5
	F								
	H								
ANSI B16.5 1998	150	254.0	185.7		23.9	215.9	8	3/4"	22.4
	300	279.4	185.7		35.1	235.0	8	3/4"	22.4
	600	330.2	185.7		44.5	266.7	8	1"	28.4
	900	349.3	185.7		50.8	279.4	8	1 1/4"	35.1
	1500	374.7	185.7		73.2	292.1	8	1 1/2"	41.1
	2500	419.1	185.7		91.9	323.9	8	1 3/4"	47.8
BS 4504 1989 (PN6-40)	6	240	178	20	20	200	8	M16	18
	10	250	188	26	22	210	8	M16	18
	16	250	188	26	22	210	8	M16	18
	25	270	188	30	28	220	8	M24	26
	40	270	188	30	28	220	8	M24	26
DIN 2501-Pt 1 (PN6-100)	64	295	188		34	240	8	M27	30
	100	315	188		42	250	8	M30	33



FLANGE TABLES

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SIZE: 6" 150mm									
FLANGE TYPE		FLANGE DIMENSIONS				BOLT INFORMATION			
STANDARD	CLASS	OUTSIDE Ø O.D.	RAISED FACE Ø	THICKNESS		BOLT CIRCLE Ø	No OF BOLTS	BOLT SIZE mm	FLANGE HOLE SIZE
				IRON	STEEL				
BS 10	D	279.4			12.7	235.0	8		17.5
	E	279.4			17.5	235.0	8		17.5
	F								
	H								
ANSI B16.5 1998	150	279.4	215.9		25.4	241.3	8	3/4"	22.4
	300	317.5	215.9		36.6	269.7	12	3/4"	22.4
	600	355.6	215.9		47.8	292.1	12	1"	28.4
	900	381.0	215.9		55.6	317.5	12	1 1/8"	31.8
	1500	393.7	215.9		82.6	317.5	12	1 3/8"	38.1
	2500	482.6	215.9		108.0	368.3	8	2"	53.8
BS 4504 1989 (PN6-40)	6	265	202	20	20	225	8	M16	18
	10	285	212	26	22	240	8	M20	22
	16	285	212	26	22	240	8	M20	22
	25	300	218	34	30	250	8	M24	26
	40	300	218	34	30	250	8	M24	26
DIN 2501-Pt 1 (PN6-100)	64	345	218		36	280	8	M30	33
	100	355	218		48	290	12	M30	33

SIZE: 8" 200mm									
FLANGE TYPE		FLANGE DIMENSIONS				BOLT INFORMATION			
STANDARD	CLASS	OUTSIDE Ø O.D.	RAISED FACE Ø	THICKNESS		BOLT CIRCLE Ø	No OF BOLTS	BOLT SIZE mm	FLANGE HOLE SIZE
				IRON	STEEL				
BS 10	D	336.6			12.7	292.1	8		17.5
	E	336.6			19.1	292.1	8		17.5
	F								
	H								
ANSI B16.5 1998	150	342.9	269.7		28.4	298.5	8	3/4"	22.4
	300	381.0	269.7		41.1	330.2	12	7/8"	25.4
	600	419.1	269.7		55.6	349.3	12	1 1/8"	31.8
	900	469.9	269.7		63.5	393.7	12	1 3/8"	38.1
	1500	482.6	269.7		91.9	393.7	12	1 5/8"	44.5
	2500	552.5	269.7		127.0	438.2	12	2"	53.8
BS 4504 1989 (PN6-40)	6	320	258	22	22	280	8	M16	18
	10	340	268	26	24	295	8	M20	22
	16	340	268	30	24	295	12	M20	22
	25	360	278	34	28	310	12	M24	26
	40	375	285	40	34	320	12	M27	30
DIN 2501-Pt 1 (PN6-100)	64	415	285		46	345	12	M33	36
	100	430	285		60	360	12	M33	36



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SIZE: 10" 250mm									
FLANGE TYPE		FLANGE DIMENSIONS				BOLT INFORMATION			
STANDARD	CLASS	OUTSIDE Ø O.D.	RAISED FACE Ø	THICKNESS		BOLT CIRCLE Ø	No OF BOLTS	BOLT SIZE mm	FLANGE HOLE SIZE
				IRON	STEEL				
BS 10	D	406.4			16.0	355.6	8		22.2
	E	406.4			22.2	355.6	8		22.2
	F								
	H								
ANSI B16.5 1998	150	406.4	323.9		30.2	362.0	12	7/8"	25.4
	300	444.5	323.9		47.8	387.4	16	1"	28.4
	600	508.0	323.9		63.5	431.8	16	1"	28.4
	900	546.1	323.9		69.9	469.9	16	13/8"	38.1
	1500	584.2	323.9		108.0	482.6	12	17/8"	50.8
	2500	673.1	323.9		165.1	539.8	12	21/2"	66.5
BS 4504 1989 (PN6-40)	6	375	312	24	24	335	12	M16	18
	10	395	320	28	26	350	12	M20	25
	16	405	320	32	26	355	12	M24	26
	25	425	335	36	32	370	12	M27	30
	40	450	345	46	42	385	12	M30	33
DIN 2501-Pt 1 (PN6-100)	64	470	345		54	400	12	M33	36
	100	505	345		72	430	12	M36	39

SIZE: 12" 300mm									
FLANGE TYPE		FLANGE DIMENSIONS				BOLT INFORMATION			
STANDARD	CLASS	OUTSIDE Ø O.D.	RAISED FACE Ø	THICKNESS		BOLT CIRCLE Ø	No OF BOLTS	BOLT SIZE mm	FLANGE HOLE SIZE
				IRON	STEEL				
BS10	D	457.2			19.1	406.4	12		22.2
	E	457.2			25.4	406.4	12		22.2
	F								
	H								
ANSI B16.5 1998	150	482.6	381.0		31.8	431.8	12	7/8"	25.4
	300	520.7	381.0		50.8	450.9	16	11/8"	31.8
	600	558.8	381.0		66.5	489.0	20	11/4"	35.1
	900	609.6	381.0		79.2	533.4	20	13/8"	38.1
	1500	673.1	381.0		124.0	571.5	16	2"	53.8
	2500	762.0	381.0		184.2	619.3	12	23/4"	73.2
BS 4504 1989 (PN6-40)	6	440	365	24	24	395	12	M20	22
	10	445	370	28	26	400	12	M20	22
	16	460	378	32	28	410	12	M24	26
	25	485	395	40	38	430	14	M27	30
	40	515	410	50	50	450	16	M30	33
DIN 2501-Pt 1 (PN6-100)	64	530	410		62	460	16	M33	36
	100	585	410		84	500	16	M39	42



FLANGE TABLES

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SIZE: 14" 350mm									
FLANGE TYPE		FLANGE DIMENSIONS				BOLT INFORMATION			
STANDARD	CLASS	OUTSIDE Ø O.D.	RAISED FACE Ø	THICKNESS		BOLT CIRCLE Ø	No OF BOLTS	BOLT SIZE mm	FLANGE HOLE SIZE
				IRON	STEEL				
BS 10	D	527.1			22.2	469.9	12		25.4
	E	527.1			28.6	469.9	12		25.4
	F								
	H								
ANSI B16.5 1998	150	533.4	412.8		35.1	476.3	12	1"	28.4
	300	584.2	412.8		53.8	514.4	20	11/8"	31.8
	600								
	900								
	1500								
	2500								
BS 4504 1989 (PN6-40)	6	490	415	26	26	445	12	M20	22
	10	505	430	30	28	460	16	M20	22
	16	520	438	36	32	470	16	M24	26
	25								
	40								
DIN 2501-Pt 1 (PN6-100)	64								
	100								

SIZE: 16" 400mm									
FLANGE TYPE		FLANGE DIMENSIONS				BOLT INFORMATION			
STANDARD	CLASS	OUTSIDE Ø O.D.	RAISED FACE Ø	THICKNESS		BOLT CIRCLE Ø	No OF BOLTS	BOLT SIZE mm	FLANGE HOLE SIZE
				IRON	STEEL				
BS 10	D	577.9			22.2	520.7	12		25.4
	E	577.9			31.8	520.7	12		25.4
	F								
	H								
ANSI B16.5 1998	150	596.9	469.9		36.6	539.8	16	1"	28.4
	300	647.7	469.9		57.2	571.5	20	11/4"	35.1
	600								
	900								
	1500								
	2500								
BS 4504 1989 (PN6-40)	6	540	465	28	28	495	16	M20	22
	10	565	482	32	32	515	16	M24	26
	16	580	490	38	36	525	16	M27	30
	25								
	40								
DIN 2501-Pt 1 (PN6-100)	64								
	100								