

C 6.3



s1 max.	s1 min.		d3	e1 max.	e1 min.	L1	L3			r min.	Inch
6,350	6,292		6,7	7,18	7,11	11,0	8,2			0,3	1/4"



C 8



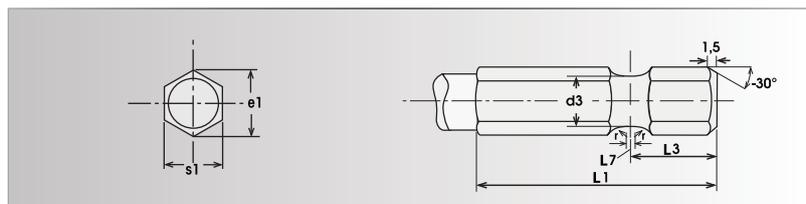
s1 max.	s1 min.		d3	e1 max.	e1 min.	L1	L3			r min.	Inch
7,930	7,872		8,2	8,96	8,90	13,5	10,2			0,3	5/16"



E 6.3



s1 max.	s1 min.		d3	e1 max.	e1 min.	L1	L3		L7	r min.	Inch
6,350	6,292		4,7	7,18	7,11	25,0	9,5		1,0	2,4	1/4"



		HEXAGON SOCKET SCREWS						
		<i>Metric screws</i>						
		Cap			Flat head	Set screws		
Size	Min. torque	ISO 4762				ISO 4026 4029	ISO 4027	ISO 4028
	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN
	911 Nm	912	6912	7984	7991	913 916	914	915
		M	M	M	M	M	M	M
0,7	0,08					1,4	1,4	1,4
						1,6	1,6	1,6
						1,8	1,8	1,8
0,9	0,18					2	2	2
1,3	0,53	1,4			2,5	2,5	2,5	2,5
1,5	0,82	1,6-2				3	3	3
2	1,9	2,5		3	3	4	4	4
2,5	3,8	3		4	4	5	5	5
3	6,6	4	4	5	5	6	6	6
4	16	5	5	6	6	8	8	8
5	30	6	6	8	8	10	10	10
6	52	8	8		10	12	12	12
						14	14	14
7	78			10				
8	120	10	10	12	12	16	16	16
10	220	12	12	14	14	18	18	18
						20	20	20
12	370	14	14	16	16	22	22	22
				18	18	24	24	24
14	590	16	16	20	20			
		18	18	22	22			
17		20	20	24	24			
		22	22					
19		24	24					
		27	27					
22	1000	30	30					
24		33	33					
27		36	36					
32		42						

		HEXAGON HEADED SCREWS							
		<i>Metric screws (engineering)</i>				<i>Screws</i>			
		Screws				Nuts		Self tapping	Wood
Size	Min. torque	ISO 4018	ISO 4016	ISO 4014	ISO 4017	ISO 4035 4036		ISO 1479	
	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN
	899 Nm	558	601	931	933	439	934	7976	571
		M	M	M	M	MO	MO	T	T
3,5	1,64							1,8	
4	2,37			2	2	2	2		
4,5	3,30				2,3				
5	4,44			2,5	2,5	2,5	2,5	2,9	
5,5	5,80			3	3	3	3	3,5	
6	7,40			3,5	3,5	3,5	3,5		
7	11,4			4	4	4	4	3,9	4
								4,2	
8	16,6	5	5	5	5	5	5	4,8	5
								5,5	
9	23								
10	31	6	6	6	6	6	6	6,3	6
11	40,4			7	7		7		
12	51,5								7
13	64,5	8	8	8	8	8	8	8	8
14	79,4		-	-	-	-	-	-	-
15	96,2		-	-	-	-	-	-	-
16	115	10	10	10	10	10			
17	134	10	10	10	10	10	10		10

Size		TORX® SCREWS										
		Metric screws						Self trapping screws				
		Cap	Flat head	Oval head	Cap	Oval flat	Flat head	Pan	Flat head	Oval head		
Min. torque		DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN		
Torx®	mm	Nm	Nm	912	963 965	964 966	7984 6912	7985 6912	7986	7981	7972 7982	7973 7983
Size												
	T 6	1,72	0,75	0,91	**	**	**	**	**	**	**	**
	T 7	1,99	1,4	1,7	**	**	**	**	**	**	**	**
	T 8	2,31	2,2	2,6	2,5	2,5	2,5		2,5		2,9	2,9
	T 9	2,50	2,8	3,4						2,9		
	T 10	2,74	3,7	4,5	3	3	3	3	3	3,5	3,5	3,5
	T 15	3,27	6,4	7,7		3,5	3,5		3,5		3,9	3,9
	T 20	3,86	10,5	12,7	4	4	4	4	4	4,2	4,2	4,2
	T 25	4,43	15,9	19,0	5	5	5	5	5	4,8	4,8	4,8
	T 27	4,99	22,5	26,9	**	**	**	**	**	**	**	**
	T 30	5,25	31,1	37,4	6	6	6	6	6	6,3	6,3	6,3
	T 40	6,65	54,1	65,1	8	8	8	8	8			
	T 45	7,82	86,2	104	**	**	**	**	**	**	**	**
	T 50	8,83	132	159	10	10	10	10	10			

** special screws

INDEX	
Flat head	Countersunk head screws
Oval head	Raised (oval) countersunk head screws
Cap	Cheese head screws
Pan head	Pan head screws
Set screws	Grub screws (headless)
Nuts	Hexagon (lock) nuts

THREAD DIAMETER	
	Metric screws
	Metric set screws
	Self tapping screws
	Wood screws

TIP SYMBOLS			
	Slotted		Hex key / Ballpoint
	Phillips-Recess		hexagon
	Pozidriv / Supadriv		Socket wrench - Nut driver
	Torx®		Robertson
	Torx TR®		Reamer

ORIENTATIONAL INFORMATION FOR FITTING TORQUE SCREWS ON CAR WHEELS

Producer	Car type	Forecast torque (Nm)
ALFA ROMEO	Alfa 33	88-108
	Alfa 145/146/147/Spider/GTV	83-103
	Alfa 155 (V6)	73-90
	Alfa 156	98
	Alfa 164	95-105
	Alfa 166	86
AUDI	A2/A3/S3/A4/A6/100/A8/S8/TT	120
	Audi Quattro	110
BMW	3 Series/ 5 Series	90-110
	M5	100
	Z3	100-110
	X5	140
CITROEN	AX10/ AX11/ AX14/ AX GT/ AX GTI/AC Sport	90
	Saxo/ Xsara	85
	Xantia/ XM	90
	C5	80-100
	C15E	70
	Berlingo	85
	Dispatch	100
DAEWOO	C25	180
	Matiz	90-110
	Nexia/ Lanos/ Espero/ Nubira	90
	Leganza	100
	Tacuma	108
	Musso/ Korando	80-120
	Cuore/ Applause/ YRV/ Move/ Grand Move/ Terios	88-118
	Charade/ Sirion/ Hi-Jet	89-118
FIAT	Stillo/ Croma/ Coupe	98
	Ukysee/ Scudo	100
	Ducato/ Talento	160
	Ducato MAXI	180
	all other models	86
FORD	Ka/ Mondeo (1996-2000)	85
	Fiesta (1990-1993)	70-100
	Escorte/ Estate (1995-2000) / Sierra	100
	Probe	88-117
	Cougar	128
	Explorer	135
HONDA	all models	108-110
HYUNDAI	Pony/ Stellar	70-80
	S Coupe (1990-1992)	88 - 108
	H1/ H200	120-140
	all other models	90-110

JAGUAR	X-Type (2001-2002)	68-92
	S-Type	128
	XJ6	65-85
	XJR/XJ12	88-102
	XJ8/XJ-S	66-82
KIA	Pride/ Mentor/ Sephia/ Clarus/ Carenes	88-118
	Sedona/ Sportage	88-108
	Besta	90-120
LADA	Samara/ Riva	70-78
	Niva	88-91
LANCIA	Dedra/ Kappa	98
	all other models	86
LAND ROVER	Freelander	115
	Defender	100-120
	Range Rover	108
LEXUS	all models	103
MAZDA	121	85
	323	90-117
	626	80-115
	Xedos 6	89-117
	Xedos 9	88-127
	MX-5	90-117
	Demio	87-117
	Premacy	80-117
Tribute	133	
MERCEDES-BENZ	S-Class (1998-2002)/ M-Class	150
	CL (1999-2002)	150
	V-Class (1995-2002)/ Vito	175
	200GE/ 230GE	190
	Sprinter (1995-2002)	180
	MB 100D	140
MINI	508D/ 510	160-180
	Mini One/ Mini cooper	90-110
MITSUBISHI	Colt/ Lancer (1996-2002)	98
	Carisma	98-117
	Eclipse	117-137
	Space Star	98-117
	Space Runner (1998-2002)	98
	Space Wagon (1998-2002)	98
	Shogun Pinin	98
	Shogun Pajero	100-120
	Micra (1992-2002)/ X-Trial	98-117
	NISSAN	Almera (2002)/ Maxima (2000-2002)/ Serena (1996-2002)
Terrano II/ Patrol GR/ Pick-up		118-147



OPEL	Agila	85
	Frontera-B	120
	all other models	110
PEUGEOT	106/ 206/ Estate	85
	306	80
	307/ 406/ 605/ 607	90
	806/ Expert	100
	Boxer	160-180
PORSCHE	all models	130
RENAULT	Twingo/ Clio/ Megane/ Safrane/ Kangoo	90
	R5	80
	Laguna/ Espace	100
	Trafic (2000-2002)	142
	Master	155
ROVER	Mini Cooper	57
	25/ 45/ MG	110
	75 Tourer/ MG ZT-T	125
SAAB	900 (1993-1998)	90-110
	9000 (1989-1997)	105-125
SEAT	Arosa/ Inca	110
	Ibiza/ Cordobar	110
	Toledo/ Leon	120
	Alhambra	140
ŠKODA	Fabia/ Octavia	120
SUBARU	all models	78-98
SUZUKI	Alto	70-100
	Swift	80
	Liana/ Ignis/ Baleono/ Wagon R/ Super Carry (1999-2002)	85
	Jimny/ Grank Vitara	95
	Vitara	80-100
TOYOTA	Yaris, Corolla, Carina, Avensis, Camry, Paseo, Celica, Supra, Picnic, Previa, RAV4, 4 Runner	103
	Landcruiser Colorado/ Prado (1996-2002)	110
	Landcruiser Amazon (1998-2002)	209
	Hi-Ace Power Van (1996-2002)	102
VW	Lupo, Caddy	110
	Passat (1996-2002), Beetle	120
	Sharan (2001-2002)	170
VOLVO	S40/V40 (1998-2002), S70/V70 (1997-2000), C70	110
	S60 (2002), V70 (2000-2002), S80	140

TX program

														
	mm	metric	192 TX - 1/2"	193 TX	193 TXL	220 TX	231 ATX IMPACT	236 TX - 3/8"	236 TXL - 3/8"	621 TBITX	621 VDE TBI	621 CRTX	621 ETX	6492 C8
TX 4														
TX 5														
TX 6	1,67	M2												
TX 7	1,99	M2,5												
TX 8	2,31	M2,5												
TX 9	2,5	M3												
TX 10	2,74	M3 - M3,5												
TX 15	3,27	M3,5 - M4												
TX 20	3,86	M4 - M5												
TX 25	4,43	M4,5 - M5												
TX 27	4,99	M4,5-M5-M6												
TX 30	5,52	M6-M7												
TX 40	6,65	M7-M8												
TX 45	7,82	M8-M10												
TX 50	8,83	M10												
TX 55	11,22	M12												
TX 60	13,25	M14												

						
	mm	metric	189 - 1/4"	191 - 1/2"	231 IMPACT TX - 1/2"	237 - 3/8"
E 4	3,86	M3				
E 5	4,75	M4				
E 6	5,74	M5				
E 7	6,22	M6				
E 8	7,52	M6-M7				
E 10	9,42	M8				
E 11	10,08	-				
E 12	11,17	M10				
E 14	12,9	M12				
E 16	14,76	M12				
E 18	16,7	M14				
E 20	18,45	M16				
E 24	22,16	M18-M20				

APPROXIMATE COMPARISON OF DIFFERENT HARDNESS MEASURE AND STEEL HARDNESS

<i>Hardness according to</i>				Hardness of steel in N/mm ²
Brinell	Vickers	Rockwell		
HBW	HV	HRB	HRC	
192	192	92	14	690
197	197	93	15	710
201	201	94	16	720
207	207	95	17	750
212	212	96	18	760
217	217	97	19	780
223	223	98	20	800
229	229	99	21	820
235	235	100	22	850
241	241	101	23	870
248	248	102	24	890
255	256	103	25	920
262	263	104	26	940
269	270	105	28	970
277	279	106	29	1000
285	287	107	30	1030
293	296	107	31	1040
302	305	108	32	1090
311	316	109	33	1120
321	327	110	34	1160
330	339	111	35	1190
341	350	111	36	1220
352	363	112	37	1270
363	375	113	38	1310
375	389	113	40	1350
388	404	114	41	1400
400	420	114	42	1440
	437	115	44	1490
	454		45	1550
	473		46	1600
	496		47	1660
	520		49	1720
	546		50	1780
	575		52	1850
	608		53	1920
	645		55	2000
	692		57	2080
	735		58	2160
	790		60	2260
	845		62	2350
	930		64	2460

Paper formats according to ISO

Dimension in mm:

A		B		C	
4A0	1682 x 2378	-	-	-	
2A0	1189 x 1682	-	-	-	
A0	841 x 1189	B0	1000 x 1414	C0	917 x 1297
A1	594 x 841	B1	707 x 1000	C1	648 x 917
A2	420 x 594	B2	500 x 707	C2	458 x 648
A3	297 x 420	B3	353 x 500	C3	324 x 458
A4	210 x 297	B4	250 x 353	C4	229 x 324
A5	148 x 210	B5	176 x 250	C5	162 x 229
A6	105 x 148	B6	125 x 176	C6	114 x 162
A7	74 x 105	B7	88 x 125	C7	81 x 114
A8	52 x 74	B8	62 x 88	C8	57 x 81
A9	37 x 52	B9	44 x 62	C9	40 x 57
A10	26 x 37	B10	31 x 44	C10	28 x 40

Conversion of torque units

measure unit	measure unit					
	= Ncm	= Nm	= kpcm	= kpm	= lbf.in.	= lbf.ft
Ncm	1	0,01	0,10197	0,00102	0,0885	0,00738
Nm	100	1	10,197	0,10197	8,851	0,7376
kpcm	9,807	0,09807	1	0,01	0,868	0,0723
kpm	980,07	9,807	100	1	86,796	7,233
lbf.in.	11,298	0,11298	1,152	0,01152	1	0,0833
lbf.ft.	135,58	1,3558	13,825	0,13825	12	1

Conversion of power units

measure unit	measure unit					
	= N	= kN	= kg	= g	= mg	= lb
N	1	0,001	0,102	102	102000	0,2248
kN	1000	1	102	102000	102000000	224,8
kg	9,807	0,009807	1	1000	1000000	2,205
g	0,009807	0,00009807	0,001	1	1000	0,002205
mg	0,00009807	9,807e-9	0,000001	0,001	1	0,000002205
lb	4,448	0,004448	0,4536	453,6	453600	1

Conversion of geometric units

measure unit	measure unit							
	= inch	= yard	= foot	= km	= m	= mm	= micron	= nm
inch	1	0,02778	0,08333	0,0000254	0,0254	25,4	25400	25400000
yard	36	1	3	0,0009144	0,9144	914,4	914400	914400000
foot	12	0,3333	1	0,0003048	0,3048	304,8	304800	304800000
km	39370	1094	3281	1	1000	1000000	1000000000	1000000000000
m	39,37	1,094	3,281	0,001	1	1000	1000000	1000000000
mm	0,03937	0,001094	0,003281	0,000001	0,001	1	1000	1000000
micron	0,00003937	0,000001094	0,000003281	1e-9	0,000001	0,001	1	1000
nm	3,937e-8	1,094e-9	0,000	1e-12	1e-9	0,000001	0,001	1

Conversion of energy units

measure unit	measure unit						
	= kJ	= kcal	= cal	= kWh	= Wh	= Ws	= BTU
kJ	1	0,2388	238,8	0,0002778	0,2778	1000	0,9478
kcal	4,187	1	1000	0,001163	1,163	4187	3,968
cal	0,004187	0,001	1	0,000001163	0,001163	4,187	0,003968
kWh	3600	859,8	859800	1	1000	3600000	3412
Wh	3,6	0,8598	859,8	0,001	1	3600	3,412
Ws	0,001	0,0002388	0,2388	2,778e-7	0,0002778	1	0,0009478
BTU	1,055	0,252	252	0,0002931	0,2931	1055	1

Conversion of pressure units

measure unit	measure unit						
	= bar	= kPa	= hPa	= milibar	= Pa	= kgf/m ²	= psi
bar	1	100	1000	1000	100000	10200	14,5
kPa	0,01	1	10	10	1000	102	0,145
hPa	0,001	0,1	1	1	100	10,2	0,0145
milibar	0,001	0,1	1	1	100	10,2	0,0145
Pa	0,00001	0,001	0,01	0,01	1	0,102	0,000145
kgf/m ²	0,00009807	0,009807	0,09807	0,09807	9,807	1	0,001422
psi	0,06895	6,895	68,95	68,95	6895	703,1	1

Conversion of speed units

measure unit	measure unit			
	= km/s	= m/s	= mph	= sea mile per hour
km/s	1	1000	2237	1944
m/s	0,001	1	2,237	1,944
mph	0,000447	0,447	1	0,869
sea mile per hour	0,0005144	0,5144	1,151	1

Conversion of angle units

measure unit	measure unit		
	= deg	= rad	= grad
deg	1	0,01745	1,111
rad	57,3	1	63,66
grad	0,9	0,01571	1

Conversion of flow rates

measure unit	measure unit		
	l/min	m ³ /min	cm ³ /min
l/min	1	0,001	1000
m ³ /min	1000	1	1000000
cm ³ /min	0,001	0,000001	1

Legend of symbols used in catalogue

	- weight in g.		- flat jaws
	- dimension in mm		- cutting jaws
	- dimension in "		- round jaws
	- number of pcs		- straight half round jaws
	- TX profile		- wire diameter
	- HEXAGON profile		- stripping jaws
	- TX profile with hole		- external lock ring pliers
	- TXP profile		- internal lock ring pliers
	- ZX profile		- jaws form
	- 1/4" internal 4-point		- jaws form
	- 1/4" point		- tube diameter in mm
	- 1/2" internal 4-point		- tube diameter in "
	- 1/2" point		- hammer weight in g.
	- 3/8" point		- profile of chisel clamping part
	- 3/8" internal 4-point		- profile of chisel clamping part
	- 3/4" point		- torque in Nm
	- 3/4" internal 4-point		- torque in lbf.ft
	- 1" internal 4-point		- file file
	- 1" point		- half round file
	- 1 1/2" internal 4-point		- round file
	- 1 1/2" point		- three angle file
	- socket - 6 point		- square file
	- 12 point socket		- spoon scraper
	- screwdriver profile, flat		- flat scraper
	- screwdriver profile, crosstip, PH		- three angle scraper
	- screwdriver profile, double crosstip, PZ		- gear rate
	- internal TX profile		

- to convert to MILLIMETERS: multiply INCHES x 25,4
- to convert to INCHES: multiply MILLIMETERS x 0,03937

INCHES		METRIC
fractional	decimal	mm
.	0.0039	0.1000
.	0.0079	0.2000
.	0.0118	0.3000
1/64	0.0156	0.3969
.	0.0157	0.4000
.	0.0197	0.5000
.	0.0236	0.6000
.	0.0276	0.7000
1/32	0.0313	0.7938
.	0.0315	0.8000
.	0.0354	0.9000
.	0.0394	1.0000
.	0.0433	1.1000
3/64	0.0469	1.1906
.	0.0472	1.2000
.	0.0512	1.3000
.	0.0551	1.4000
.	0.0591	1.5000
1/16	0.0625	1.5875
.	0.0630	1.6000
.	0.0669	1.7000
.	0.0709	1.8000
.	0.0748	1.9000
5/64	0.0781	1.9844
.	0.0787	2.0000
.	0.0827	2.1000
.	0.0866	2.2000
.	0.0906	2.3000
3/32	0.0938	2.3813
.	0.0945	2.4000
.	0.0984	2.5000
7/64	0.1094	2.7781
.	0.1181	3.0000
1/8	0.1250	3.1750
.	0.1378	3.5000
9/64	0.1406	3.5719
5/32	0.1563	3.9688
.	0.1575	4.0000
11/64	0.1719	4.3656
.	0.1772	4.5000
3/16	0.1875	4.7625
.	0.1969	5.0000
13/64	0.2031	5.1594
.	0.2165	5.5000
7/32	0.2188	5.5563
15/64	0.2344	5.9531
.	0.2362	6.0000
1/4	0.2500	6.3500
.	0.2559	6.5000
17/64	0.2656	6.7469
.	0.2756	7.0000
9/32	0.2813	7.1438
.	0.2953	7.5000
19/64	0.2969	7.5406
5/16	0.3125	7.9375
.	0.3150	8.0000
21/64	0.3281	8.3344
.	0.3346	8.5000
11/32	0.3438	8.7313
.	0.3543	9.0000
23/64	0.3594	9.1281
.	0.3740	9.5000
3/8	0.3750	9.5250
25/64	0.3906	9.9219
.	0.3937	10.0000
13/32	0.4063	10.3188
.	0.4134	10.5000
27/64	0.4219	10.7156
.	0.4331	11.0000
7/16	0.4375	11.1125
.	0.4528	11.5000
29/64	0.4531	11.5094
15/32	0.4688	11.9063
.	0.4724	12.0000
31/64	0.4844	12.3031
.	0.4921	12.5000
1/2	0.5000	12.7000
.	0.5118	13.0000
33/64	0.5156	13.0969
17/32	0.5313	13.4938
.	0.5315	13.5000
35/64	0.5469	13.8906

INCHES		METRIC
fractional	decimal	mm
.	0.5512	14.0000
9/16	0.5625	14.2875
.	0.5709	14.5000
37/64	0.5781	14.6844
.	0.5906	15.0000
19/32	0.5938	15.0813
39/64	0.6094	15.4781
.	0.6102	15.5000
5/8	0.6250	15.8750
.	0.6299	16.0000
41/64	0.6406	16.2719
.	0.6496	16.5000
21/32	0.6563	16.6688
.	0.6693	17.0000
43/64	0.6719	17.0656
11/16	0.6875	17.4625
.	0.6890	17.5000
45/64	0.7031	17.8594
.	0.7087	18.0000
23/32	0.7188	18.2563
.	0.7283	18.5000
47/64	0.7344	18.6531
.	0.7480	19.0000
3/4	0.7500	19.0500
49/64	0.7656	19.4469
.	0.7677	19.5000
25/32	0.7813	19.8438
.	0.7874	20.0000
51/64	0.7969	20.2406
.	0.8071	20.5000
13/16	0.8125	20.6375
.	0.8268	21.0000
53/64	0.8281	21.0344
27/32	0.8438	21.4313
.	0.8465	21.5000
55/64	0.8594	21.8281
.	0.8661	22.0000
7/8	0.8750	22.2250
.	.8858	22.5000
57/64	.89063	22.6219
.	.9055	23.0000
29/32	.90625	23.0188
59/64	.92188	23.4156
.	.9252	23.5000
15/16	.93750	23.8125
.	.9449	24.0000
61/64	.95313	24.2094
.	.9646	24.5000
31/32	.96875	24.6063
.	.9843	25.0000
63/64	.98438	25.0031
1	1.000	25.40
.	1.0039	25.5000
.	1.0236	26.0000
.	1.0433	26.5000
.	1.0630	27.0000
.	1.0827	27.5000
.	1.1024	28.0000
.	1.1220	28.5000
.	1.1417	29.0000
.	1.1614	29.5000
.	1.1811	30.0000
.	1.2205	31.0000
1 1/4	1.2500	31.7500
.	1.2598	32.0000
.	1.2992	33.0000
.	1.3386	34.0000
.	1.3780	35.0000
.	1.4173	36.0000
.	1.4567	37.0000
.	1.4961	38.0000
1 1/2	1.5000	38.1000
.	1.5354	39.0000
.	1.5748	40.0000
.	1.6142	41.0000
.	1.6535	42.0000
.	1.6929	43.0000
.	1.7323	44.0000
1 3/4	1.7500	44.4500
.	1.7717	45.0000
.	1.8110	46.0000
.	1.8504	47.0000

INCHES		METRIC
fractional	decimal	mm
.	1.8898	48.0000
.	1.9291	49.0000
.	1.9685	50.0000
2	2.0000	50.8000
.	2.0079	51.0000
.	2.0472	52.0000
.	2.0866	53.0000
.	2.1260	54.0000
.	2.1654	55.0000
.	2.2047	56.0000
.	2.2441	57.0000
2 1/4	2.2500	57.1500
.	2.2835	58.0000
.	2.3228	59.0000
.	2.3622	60.0000
.	2.4016	61.0000
.	2.4409	62.0000
.	2.4803	63.0000
2 1/2	2.5000	63.5000
.	2.5197	64.0000
.	2.5591	65.0000
.	2.5984	66.0000
.	2.6378	67.0000
.	2.6772	68.0000
.	2.7165	69.0000
2 3/4	2.7500	69.8500
.	2.7559	70.0000
.	2.7953	71.0000
.	2.8346	72.0000
.	2.8740	73.0000
.	2.9134	74.0000
.	2.9528	75.0000
.	2.9921	76.0000
3	3.0000	76.2000
.	3.0315	77.0000
.	3.0709	78.0000
.	3.1102	79.0000
.	3.1496	80.0000
.	3.1890	81.0000
.	3.2283	82.0000
.	3.2677	83.0000
.	3.3071	84.0000
.	3.3465	85.0000
.	3.3858	86.0000
.	3.4252	87.0000
.	3.4646	88.0000
3 1/2	3.5000	88.9000
.	3.5039	89.0000
.	3.5433	90.0000
.	3.5827	91.0000
.	3.6220	92.0000
.	3.6614	93.0000
.	3.7008	94.0000
.	3.7402	95.0000
.	3.7795	96.0000
.	3.8189	97.0000
.	3.8583	98.0000
.	3.8976	99.0000
.	3.9370	100.0000
4	4.0000	101.6000
.	4.3307	110.0000
4 1/2	4.5000	114.3000
.	4.7244	120.0000
5	5.0000	127.0000
.	5.1181	130.0000
.	5.5118	140.0000
.	5.9055	150.0000
6	6.0000	152.4000
.	6.2992	160.0000
.	6.6929	170.0000
.	7.0866	180.0000
.	7.4803	190.0000
.	7.8740	200.0000
8	8.0000	203.2000
.	9.8425	250.0000
10	10.0000	254.0000
20	20.0000	508.0000
30	30.0000	762.0000
40	40.0000	1016.0000
60	60.0000	1524.0000
80	80.0000	2032.0000
100	100.0000	2540.0000