

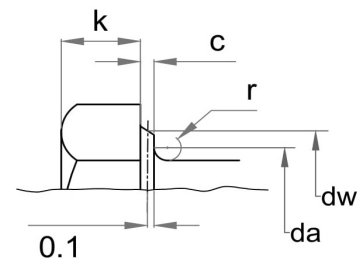
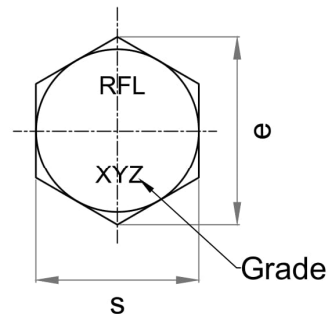
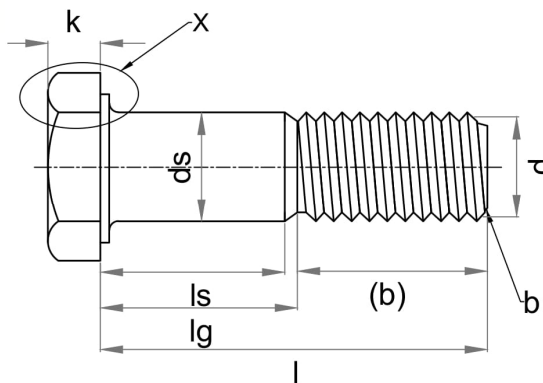


## Hexagon Bolt – DIN EN 14399-4 (ISO 6914)

### Metric Series – Dimensions

#### Notes:-

1. The Bolt will be according to DIN EN 14399-4.
2. Threads will conform to Class 6g of ISO 261 & ISO 965-2.
3. Material High grade carbon/alloy steel & stainless steel According to ISO 898-1.
4. Heat Treatment: Property Class 8 or 10.
5.  $\beta=15^\circ$  to  $30^\circ$ .
6. In Hot Dip Galvanizing Diameters will be reduced 0.3 mm.
7. The difference between  $l_s$  and  $l_g$  should not be less than  $1.5P$ .
8. Incomplete thread  $u = \leq 2P$ .
9. Reference datum for  $dw$ .
10. Maximum under head fillet.
11. Chamfer ( $b$ ) is Double of Pitch ( $b = 2P$ ).
12. All dimensions are in millimetres.



'X' Enlarge View

S. No.	Size	Pitch (p)	Width across corner (e)		Width across Flat (s)		Thickness (k)		da	dw	Shank diameter (ds)		Radiou s (r)	Washer height (c)			Major Diameter (D)		Pitch Diameter (D1)		Minor Diameter (D2)
			Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.		Min.	Max.	Min.	Max.	Min.	Max.	Min.	
1	M-16	2.00	29.56	26.16	27.00	9.25	10.75	19.20	24.90	15.30	16.70	1.20	0.40	0.60	15.68	15.96	14.50	14.60	13.80		
3	M-20	2.50	35.03	31.00	32.00	12.10	13.90	24.00	29.50	19.16	20.84	1.50	0.40	0.80	19.62	19.96	18.15	18.25	17.25		
4	M-22	2.50	39.55	35.00	36.00	13.10	14.10	26.00	33.30	21.16	22.84	1.50	0.40	0.80	21.62	21.96	20.15	20.25	19.25		
5	M-24	3.00	45.20	40.00	41.00	14.10	15.90	28.00	38.00	23.16	24.84	1.50	0.40	0.80	23.58	23.95	21.80	21.90	20.74		
6	M-27	3.00	50.85	45.00	46.00	16.10	17.90	32.00	42.80	26.16	27.84	2.00	0.40	0.80	26.58	26.95	24.80	24.90	23.70		
7	M30	3.50	55.37	49.00	50.00	17.95	20.05	35.00	46.60	29.16	30.84	2.00	0.40	0.80	29.52	29.95	27.50	27.60	26.16		
9	M-36	4.00	66.44	58.80	60.00	21.95	24.05	41.00	55.90	35.00	37.00	2.00	0.40	0.80	35.46	35.94	33.15	33.25	31.61		
10	M-39	4.00	71.30	63.10	65.00	23.95	26.05	45.00	60.00	38.00	40.00	2.50	0.50	1.00	38.46	38.94	36.20	36.30	34.61		
11	M-42	4.50	76.95	68.10	70.00	24.95	27.05	48.00	64.70	41.00	43.00	2.50	0.50	1.00	41.44	41.94	38.80	38.90	37.07		
12	M-45	4.50	82.60	73.10	75.00	26.95	29.05	52.00	69.45	44.00	46.00	3.00	0.50	1.00	44.44	44.94	41.80	41.90	40.07		
13	M-48	5.00	88.25	78.10	80.00	28.95	31.05	55.00	74.20	47.00	49.00	3.00	0.50	1.00	47.40	47.93	44.50	44.60	42.52		
15	M-56	5.50	99.20	87.80	90.00	33.75	36.25	64.20	83.40	54.80	57.20	3.50	0.50	1.00	55.36	55.92	52.10	52.20	49.97		
17	M-64	6.00	110.50	97.80	100.00	38.75	41.25	73.20	92.90	62.80	65.20	4.00	0.50	1.00	63.32	63.92	59.80	59.90	57.42		

## Hexagon Bolt – ISO 6914

L	Total Length		M-16		M-16 thread length		M-20		M-20 thread length		M-22		M-22 thread length		M-24		M-24 thread length		M-27		M-27 thread length		M-30		M-30 thread length		M-36	
	Min.	Max.	Ls <i>min.</i>	Lg <i>max.</i>	Min	Max	Ls <i>min.</i>	Lg <i>max.</i>	Min	Max	Ls <i>min.</i>	Lg <i>max.</i>	Min	Max	Ls <i>min.</i>	Lg <i>max.</i>	Min	Max	Ls <i>min.</i>	Lg <i>max.</i>	Min	Max	Ls <i>min.</i>	Lg <i>max.</i>	Min	Max	Ls <i>min.</i>	Lg <i>max.</i>
70.00	68.50	71.50	36.00	42.00	28.00	29.00	29.50	37.00	33.00	35.50	28.50	36.00	34.00	36.50	22.00	31.00	39.00	43.00	20.00	29.00	41.00	45.00	15.50	26.00	44.00	49.50		
80.00	78.50	81.50	46.00	52.00	28.00	29.00	39.50	47.00	33.00	35.50	38.50	46.00	34.00	36.50	32.00	41.00	39.00	43.00	30.00	39.00	41.00	45.00	25.50	36.00	44.00	49.50	16.00	28.00
90.00	88.25	91.75	56.00	62.00	28.00	29.00	49.50	57.00	33.00	35.50	48.50	56.00	34.00	36.50	42.00	51.00	39.00	43.00	40.00	49.00	41.00	45.00	35.50	46.00	44.00	49.50	26.00	38.00
100.00	98.25	101.75	66.00	72.00	28.00	29.00	59.50	67.00	33.00	35.50	58.50	66.00	34.00	36.50	52.00	61.00	39.00	43.00	50.00	59.00	41.00	45.00	45.50	56.00	44.00	49.50	36.00	48.00
110.00	108.25	111.75	76.00	82.00	28.00	29.00	69.50	77.00	33.00	35.50	68.50	76.00	34.00	36.50	62.00	71.00	39.00	43.00	60.00	69.00	41.00	45.00	55.50	66.00	44.00	49.50	46.00	58.00
120.00	118.25	121.75	86.00	92.00	28.00	29.00	79.50	87.00	33.00	35.50	78.50	86.00	34.00	36.50	72.00	81.00	39.00	43.00	70.00	79.00	41.00	45.00	65.50	76.00	44.00	49.50	56.00	68.00
130.00	128.00	132.00	96.00	102.00	28.00	29.00	89.50	97.00	33.00	35.50	88.50	96.00	34.00	36.50	82.00	91.00	39.00	43.00	80.00	89.00	41.00	45.00	75.50	86.00	44.00	49.50	66.00	78.00
140.00	138.00	142.00	106.00	112.00	28.00	29.00	99.50	107.00	33.00	35.50	98.50	106.00	34.00	36.50	92.00	101.00	39.00	43.00	90.00	99.00	41.00	45.00	85.50	96.00	44.00	49.50	76.00	88.00
150.00	148.00	152.00	116.00	122.00	28.00	29.00	109.50	117.00	33.00	35.50	108.50	116.00	34.00	36.50	102.00	111.00	39.00	43.00	100.00	109.00	41.00	45.00	95.50	106.00	44.00	49.50	86.00	98.00
160.00	158.00	162.00	126.00	132.00	28.00	29.00	119.50	127.00	33.00	35.50	118.50	126.00	34.00	36.50	112.00	121.00	39.00	43.00	110.00	119.00	41.00	45.00	105.50	116.00	44.00	49.50	96.00	108.00
170.00	168.00	172.00	136.00	142.00	28.00	29.00	129.50	137.00	33.00	35.50	128.50	136.00	34.00	36.50	122.00	131.00	39.00	43.00	120.00	129.00	41.00	45.00	115.50	126.00	44.00	49.50	106.00	118.00
180.00	178.00	182.00	146.00	152.00	28.00	29.00	139.50	147.00	33.00	35.50	138.50	146.00	34.00	36.50	132.00	141.00	39.00	43.00	130.00	139.00	41.00	45.00	125.50	136.00	44.00	49.50	116.00	128.00
190.00	188.00	192.00	156.00	162.00	28.00	29.00	149.50	157.00	33.00	35.50	148.50	156.00	34.00	36.50	142.00	151.00	39.00	43.00	140.00	149.00	41.00	45.00	135.50	146.00	44.00	49.50	126.00	138.00
200.00	197.70	202.30	166.00	172.00	28.00	29.00	159.50	167.00	33.00	35.50	158.50	166.00	34.00	36.50	152.00	161.00	39.00	43.00	150.00	159.00	41.00	45.00	145.50	156.00	44.00	49.50	136.00	148.00
210.00	207.70	212.30	176.00	182.00	28.00	29.00	169.50	177.00	33.00	35.50	168.50	176.00	34.00	36.50	162.00	171.00	39.00	43.00	160.00	169.00	41.00	45.00	155.50	166.00	44.00	49.50	146.00	158.00
220.00	217.70	222.30	186.00	192.00	28.00	29.00	179.50	187.00	33.00	35.50	178.50	186.00	34.00	36.50	172.00	181.00	39.00	43.00	170.00	179.00	41.00	45.00	165.50	176.00	44.00	49.50	156.00	168.00
230.00	227.70	232.30	196.00	202.00	28.00	29.00	189.50	197.00	33.00	35.50	188.50	196.00	34.00	36.50	182.00	191.00	39.00	43.00	180.00	189.00	41.00	45.00	175.50	186.00	44.00	49.50	166.00	178.00
240.00	237.70	242.30	206.00	212.00	28.00	29.00	199.50	207.00	33.00	35.50	198.50	206.00	34.00	36.50	192.00	201.00	39.00	43.00	190.00	199.00	41.00	45.00	185.50	196.00	44.00	49.50	176.00	188.00
250.00	247.70	252.30	216.00	222.00	28.00	29.00	209.50	217.00	33.00	35.50	208.50	216.00	34.00	36.50	202.00	211.00	39.00	43.00	200.00	209.00	41.00	45.00	195.50	206.00	44.00	49.50	186.00	198.00
260.00	257.40	262.60	226.00	232.00	28.00	29.00	219.50	227.00	33.00	35.50	218.50	226.00	34.00	36.50	212.00	221.00	39.00	43.00	210.00	219.00	41.00	45.00	205.50	216.00	44.00	49.50	196.00	208.00
270.00	267.40	272.60	236.00	242.00	28.00	29.00	229.50	237.00	33.00	35.50	228.50	236.00	34.00	36.50	222.00	231.00	39.00	43.00	220.00	229.00	41.00	45.00	215.50	226.00	44.00	49.50	206.00	218.00
280.00	277.40	282.60	246.00	252.00	28.00	29.00	239.50	247.00	33.00	35.50	238.50	246.00	34.00	36.50	232.00	241.00	39.00	43.00	230.00	239.00	41.00	45.00	225.50	236.00	44.00	49.50	216.00	228.00
290.00	287.40	292.60	256.00	262.00	28.00	29.00	249.50	257.00	33.00	35.50	248.50	256.00	34.00	36.50	242.00	251.00	39.00	43.00	240.00	249.00	41.00	45.00	235.50	246.00	44.00	49.50	226.00	238.00
300.00	297.40	302.60	266.00	272.00	28.00	29.00	259.50	267.00	33.00	35.50	258.50	266.00	34.00	36.50	252.00	261.00	39.00	43.00	250.00	259.00	41.00	45.00	245.50	256.00	44.00	49.50	236.00	248.00
310.00	307.40	312.60	276.00	282.00	28.00	29.00	269.50	277.00	33.00	35.50	268.50	276.00	34.00	36.50	262.00	271.00	39.00	43.00	260.00	269.00	41.00	45.00	255.50	266.00	44.00	49.50	246.00	258.00
320.00	317.15	322.85	286.00	292.00	28.00	29.00	279.50	287.00	33.00	35.50	278.50	286.00	34.00	36.50	272.00	281.00	39.00	43.00	270.00	279.00	41.00	45.00	265.50	276.00	44.00	49.50	256.00	268.00
330.00	327.15	332.85	296.00	302.00	28.00	29.00	289.50	297.00	33.00	35.50	288.50	296.00	34.00	36.50	282.00	291.00	39.00	43.00	280.00	289.00	41.00	45.00	275.50	286.00	44.00	49.50	266.00	278.00
340.00	337.15	342.85	306.00	312.00	28.00	29.00	299.50	307.00	33.00	35.50	298.50	306.00	34.00	36.50	292.00	301.00	39.00	43.00	290.00	299.00	41.00	45.00	285.50	296.00	44.00	49.50	276.00	288.00
350.00	347.15	352.85	316.00	322.00	28.00	29.00	309.50	317.00	33.00	35.50	308.50	316.00	34.00	36.50	302.00	311.00	39.00	43.00	300.00	309.00	41.00	45.00	295.50	306.00	44.00	49.50	286.00	298.00
360.00	357.15	362.85	326.00	332.00	28.00	29.00	319.50	327.00	33.00	35.50	318.50	326.00	34.00	36.50	312.00	321.00	39.00	43.00	310.00	319.00	41.00	45.00	305.50	316.00	44.00	49.50	296.00	308.00
370.00	367.15	372.85	336.00	342.00	28.00	29.00	329.50	337.00	33.00	35.50	328.50	336.00	34.00	36.50	322.00	331.00	39.00	43.00	320.00	329.00	41.00	45.00	315.50	326.00	44.00	49.50	306.00	318.00
380.00	377.15	382.85	346.00	352.00	28.00	29.00	339.50	347.00	33.00	35.50	338.50	346.00	34.00	36.50	332.00	341.00	39.00	43.00	330.00	339.00	41.00	45.00	325.50	336.00	44.00	49.50	316.00	328.00
390.00	387.15	392.85	356.00	362.00	28.00	29.00	349.50	357.00	33.00	35.50	348.50	356.00	34.00	36.50	342.00	351.00	39.00	43.00	340.00	349.00	41.00	45.00	335.50	346.00	44.00	49.50	326.00	338.00
400.00	397.15	402.85	366.00	372.00	28.00	29.00	359.50	367.00	33.00	35.50	358.50	366.00	34.00	36.50	352.00	361.00	39.00	43.00	350.00	359.00	41.00	45.00	345.50	356.00	44.00	49.50	336.00	348.00
410.00	407.15	412.85	376.00	382.00	28.00	29.00	369.50	377.00	33.00	35.50	368.50	376.00	34.00	36.50	362.00	371.00	39.00	43.00	360.00	369.00	41.00	45.00	355.50	366.00	44.00	49.50	346.00	358.00
420.00	416.85	423.15	386.00	392.00	28.00	29.00	379.50	387.00	33.00	35.50	378.50	386.00	34.00	36.50	372.00	381.00	39.00	43.00	370.00	379.00	41.00	45.00	365.50	376.00	44.00	49.50	356.00	368.00
430.00	426.85	433.15	396.00	402.00	28.00	29.00	389.50	397.00	33.00	35.50	388.50	396.00	34.00	36.50	382.00	391.00	39.00	43.00	380.00	389.00	41.00	45.00	375.50	386.00	44.00	49.50	366.00	378.00
440.00	436.85	443.15	406.00	412.00	28.00	29.00	399.50	407.00	33.00	35.50	398.50	406.00	34.00	3														

## Hexagon Bolt – ISO 6914

L	Total Length		M-36 thread length		M-39		M-39 thread length		M-42		M-42 thread length		M-45		M-42 thread length		M-48		M-48 thread length		M-56		M-56 thread length		M-64		M-64 thread length	
	Min.	Max.	Min	Max	Ls	Lg	Min	Max	Ls	Lg	Min	Max	Ls	Lg	Min	Max	Ls	Lg	Min	Max	Ls	Lg	Min	Max	Ls	Lg	Min	Max
Nominal length					<i>min.</i>	<i>max.</i>			<i>min.</i>	<i>max.</i>			<i>min.</i>	<i>max.</i>			<i>min.</i>	<i>max.</i>			<i>min.</i>	<i>max.</i>			<i>min.</i>	<i>max.</i>		
70.00	68.50	71.50																										
80.00	78.50	81.50	52.00	59.00																								
90.00	88.25	91.75	52.00	59.00																								
100.00	98.25	101.75	52.00	59.00																								
110.00	108.25	111.75	52.00	59.00	30.00	42.00	68.00	75.00																				
120.00	118.25	121.75	52.00	59.00	40.00	52.00	68.00	75.00	32.50	46.00	74.00	82.50	30.50	44.00	76.00	84.50												
130.00	128.00	132.00	52.00	59.00	50.00	62.00	68.00	75.00	42.50	56.00	74.00	82.50	40.50	54.00	76.00	84.50	33.00	48.00	82.00	92.00								
140.00	138.00	142.00	52.00	59.00	60.00	72.00	68.00	75.00	52.50	66.00	74.00	82.50	50.50	64.00	76.00	84.50	43.00	58.00	82.00	92.00	33.50	50.00	90.00	101.50				
150.00	148.00	152.00	52.00	59.00	70.00	82.00	68.00	75.00	62.50	76.00	74.00	82.50	60.50	74.00	76.00	84.50	53.00	68.00	82.00	92.00	43.50	60.00	90.00	101.50	32.00	50.00	100.00	113.00
160.00	158.00	162.00	52.00	59.00	80.00	92.00	68.00	75.00	72.50	86.00	74.00	82.50	70.50	84.00	76.00	84.50	63.00	78.00	82.00	92.00	53.50	70.00	90.00	101.50	42.00	60.00	100.00	113.00
170.00	168.00	172.00	52.00	59.00	90.00	102.00	68.00	75.00	82.50	96.00	74.00	82.50	80.50	94.00	76.00	84.50	73.00	88.00	82.00	92.00	63.50	80.00	90.00	101.50	52.00	70.00	100.00	113.00
180.00	178.00	182.00	52.00	59.00	100.00	112.00	68.00	75.00	92.50	106.00	74.00	82.50	90.50	104.00	76.00	84.50	83.00	98.00	82.00	92.00	73.50	90.00	90.00	101.50	62.00	80.00	100.00	113.00
190.00	188.00	192.00	52.00	59.00	110.00	122.00	68.00	75.00	102.50	116.00	74.00	82.50	100.50	114.00	76.00	84.50	93.00	108.00	82.00	92.00	83.50	100.00	90.00	101.50	72.00	90.00	100.00	113.00
200.00	197.70	202.30	52.00	59.00	120.00	132.00	68.00	75.00	112.50	126.00	74.00	82.50	110.50	124.00	76.00	84.50	103.00	118.00	82.00	92.00	93.50	110.00	90.00	101.50	82.00	100.00	100.00	113.00
210.00	207.70	212.30	52.00	59.00	130.00	142.00	68.00	75.00	122.50	136.00	74.00	82.50	120.50	134.00	76.00	84.50	113.00	128.00	82.00	92.00	103.50	120.00	90.00	101.50	92.00	110.00	100.00	113.00
220.00	217.70	222.30	52.00	59.00	140.00	152.00	68.00	75.00	132.50	146.00	74.00	82.50	130.50	144.00	76.00	84.50	123.00	138.00	82.00	92.00	113.50	130.00	90.00	101.50	102.00	120.00	100.00	113.00
230.00	227.70	232.30	52.00	59.00	150.00	162.00	68.00	75.00	142.50	156.00	74.00	82.50	140.50	154.00	76.00	84.50	133.00	148.00	82.00	92.00	123.50	140.00	90.00	101.50	112.00	130.00	100.00	113.00
240.00	237.70	242.30	52.00	59.00	160.00	172.00	68.00	75.00	152.50	166.00	74.00	82.50	150.50	164.00	76.00	84.50	143.00	158.00	82.00	92.00	133.50	150.00	90.00	101.50	122.00	140.00	100.00	113.00
250.00	247.70	252.30	52.00	59.00	170.00	182.00	68.00	75.00	162.50	176.00	74.00	82.50	160.50	174.00	76.00	84.50	153.00	168.00	82.00	92.00	143.50	160.00	90.00	101.50	132.00	150.00	100.00	113.00
260.00	257.40	262.60	52.00	59.00	180.00	192.00	68.00	75.00	172.50	186.00	74.00	82.50	170.50	184.00	76.00	84.50	163.00	178.00	82.00	92.00	153.50	170.00	90.00	101.50	142.00	160.00	100.00	113.00
270.00	267.40	272.60	52.00	59.00	190.00	202.00	68.00	75.00	182.50	196.00	74.00	82.50	180.50	194.00	76.00	84.50	173.00	188.00	82.00	92.00	163.50	180.00	90.00	101.50	152.00	170.00	100.00	113.00
280.00	277.40	282.60	52.00	59.00	200.00	212.00	68.00	75.00	192.50	206.00	74.00	82.50	190.50	204.00	76.00	84.50	183.00	198.00	82.00	92.00	173.50	190.00	90.00	101.50	162.00	180.00	100.00	113.00
290.00	287.40	292.60	52.00	59.00	210.00	222.00	68.00	75.00	202.50	216.00	74.00	82.50	200.50	214.00	76.00	84.50	193.00	208.00	82.00	92.00	183.50	200.00	90.00	101.50	172.00	190.00	100.00	113.00
300.00	297.40	302.60	52.00	59.00	220.00	232.00	68.00	75.00	212.50	226.00	74.00	82.50	210.50	224.00	76.00	84.50	203.00	218.00	82.00	92.00	193.50	210.00	90.00	101.50	182.00	200.00	100.00	113.00
310.00	307.40	312.60	52.00	59.00	230.00	242.00	68.00	75.00	222.50	236.00	74.00	82.50	220.50	234.00	76.00	84.50	213.00	228.00	82.00	92.00	203.50	220.00	90.00	101.50	192.00	210.00	100.00	113.00
320.00	317.15	322.85	52.00	59.00	240.00	252.00	68.00	75.00	232.50	246.00	74.00	82.50	230.50	244.00	76.00	84.50	223.00	238.00	82.00	92.00	213.50	230.00	90.00	101.50	202.00	220.00	100.00	113.00
330.00	327.15	332.85	52.00	59.00	250.00	262.00	68.00	75.00	242.50	256.00	74.00	82.50	240.50	254.00	76.00	84.50	233.00	248.00	82.00	92.00	223.50	240.00	90.00	101.50	212.00	230.00	100.00	113.00
340.00	337.15	342.85	52.00	59.00	260.00	272.00	68.00	75.00	252.50	266.00	74.00	82.50	250.50	264.00	76.00	84.50	243.00	258.00	82.00	92.00	233.50	250.00	90.00	101.50	222.00	240.00	100.00	113.00
350.00	347.15	352.85	52.00	59.00	270.00	282.00	68.00	75.00	262.50	276.00	74.00	82.50	260.50	274.00	76.00	84.50	253.00	268.00	82.00	92.00	243.50	260.00	90.00	101.50	232.00	250.00	100.00	113.00
360.00	357.15	362.85	52.00	59.00	280.00	292.00	68.00	75.00	272.50	286.00	74.00	82.50	270.50	284.00	76.00	84.50	263.00	278.00	82.00	92.00	253.50	270.00	90.00	101.50	242.00	260.00	100.00	113.00
370.00	367.15	372.85	52.00	59.00	290.00	302.00	68.00	75.00	282.50	296.00	74.00	82.50	280.50	294.00	76.00	84.50	273.00	288.00	82.00	92.00	263.50	280.00	90.00	101.50	252.00	270.00	100.00	113.00
380.00	377.15	382.85	52.00	59.00	300.00	312.00	68.00	75.00	292.50	306.00	74.00	82.50	290.50	304.00	76.00	84.50	283.00	298.00	82.00	92.00	273.50	290.00	90.00	101.50	262.00	280.00	100.00	113.00
390.00	387.15	392.85	52.00	59.00	310.00	322.00	68.00	75.00	302.50	316.00	74.00	82.50	300.50	314.00	76.00	84.50	293.00	308.00	82.00	92.00	283.50	300.00	90.00	101.50	272.00	290.00	100.00	113.00
400.00	397.15	402.85	52.00	59.00	320.00	332.00	68.00	75.00	312.50	326.00	74.00	82.50	310.50	324.00	76.00	84.50	303.00	318.00	82.00	92.00	293.50	310.00	90.00	101.50	282.00	300.00	100.00	113.00
410.00	407.15	412.85	52.00	59.00	330.00	342.00	68.00	75.00	322.50	336.00	74.00	82.50	320.50	334.00	76.00	84.50	313.00	328.00	82.00	92.00	303.50	320.00	90.00	101.50	292.00	310.00	100.00	113.00
420.00	416.85	423.15	52.00	59.00	340.00	352.00	68.00	75.00	332.50	346.00	74.00	82.50	330.50	344.00	76.00	84.50	323.00	338.00	82.00	92.00	313.50	330.00	90.00	101.50	302.00	320.00	100.00	113.00
430.00	426.85	433.15	52.00	59.00	350.00	362.00	68.00	75.00	342.50	356.00	74.00	82.50	340.50	354.00	76.00	84.50	333.00	348.00	82.00	92.00	323.50	340.00	90.00	101.50	312.00	330.00	100.00	113.00
440.00	436.85	443.15	52.00	59.00	360.00	372.00	68.00	75.00	352.50	366.00	74.00	82.50	350.50	364.00	76.00	84.50	343.00	358.00	82.00	92.00	333.50	350.00	90.00	101.50	322.00	340.00	100.00	113.00
450.00	446.85	453.15	52.00	59.00	370.00	382.00	68.00	75.00	362.50	376.00	74.00	82.50	360.50	374.00	76.00	84.50	353.00	368.00	82.00	92.00	343.50	360.00	90.00	101.50	332.00	350.00	100.00	113.00
460.00	456.85	463.15	52.00	59.00	380.00	392.00	68.00	75.00	372.50	386.00	74.00	82.50	370.50	384.00	76.00	84.50	363.00	378.00	82.00	92.00	353.50	370.00	90.00	101.50				