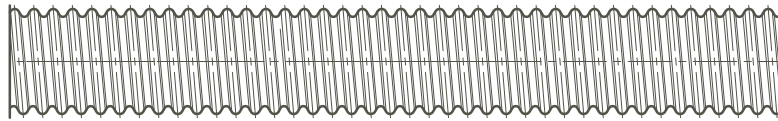


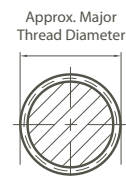
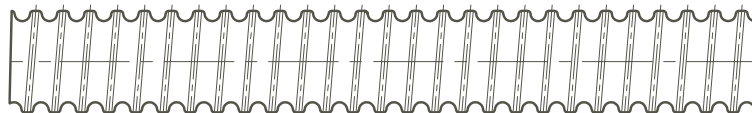
Threaded Bar & Accessories



Threaded Bar - Grade 75

Bar Designation	Nominal Diameter	Minimum Net Area Thru Threads	Minimum Ultimate Strength	Minimum Yield Strength	Nominal Weight	Approx. Major Thread Diameter	Thread Orientation*	Max. Length
	in (mm)	in ² (mm ²)	kips (kN)	kips (kN)	lbs/ft (kg/m)	in (mm)		
#6†	¾	0.440	44	33	1.50	¾	Left Hand	60
	20	284.0	195.7	146.8	2.2	22.2		
#7†	⅞	0.600	60	45	2.00	1	Left Hand	60
	22	387.0	266.9	200.2	3.0	25.4		
#8	1	0.790	79	59.3	2.70	1 ⅛	Left Hand	60
	25	510.0	351.4	263.8	4.0	28.5		
#9	1 ⅛	1.000	100	75	3.40	1 ¼	Left Hand	60
	28	645.0	444.8	333.6	5.1	32.0		
#10	1 ¼	1.270	127	95.3	4.30	1 ⅜	Left Hand	60
	32	819.0	564.9	423.9	6.4	35.0		
#11	1 ⅜	1.560	156	117	5.30	1 ½	Left Hand	60
	35	1006.0	694.0	520.5	7.9	38.1		
#14	1 ¾	2.250	225	168.7	7.65	1 ⅞	Right Hand	60
	45	1452.0	1000.9	750.4	11.4	47.6		
#18	2 ¼	4.000	400	300	13.60	2 ⅞	Right Hand	60
	55	2581.0	1779.4	1334.5	20.2	62.0		
#20	2 ½	4.910	491	368	16.69	2 ¾	Right Hand	60
	64	3168.0	2184.0	1637.0	24.8	70.0		
#24	3	7.070	707	530	24.10	3 ¼	Right Hand	60
	76	4417.0	3142.0	2356.0	35.9	82.6		
#28	3 ½	9.610	960	720	32.70	3 ⅝	Right Hand	60
	89	6200.0	4274.0	3206.0	48.7	95.3		

#6-#18: ASTM A615. #20-#28: Meet physical properties. *Other thread orientation available upon request. † Call for availability.



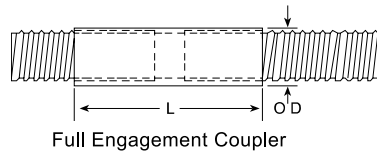
Threaded Bar - Grade 150

Nominal Diameter	Minimum Net Area Thru Threads	Minimum Ultimate Strength	Minimum Yield Strength	Nominal Weight	Approx. Major Thread Diameter	Thread Orientation*	Max. Length
in (mm)	in ² (mm ²)	kips (kN)	kips (kN)	lbs/ft (kg/m)	in (mm)		ft (m)
1	0.850	128	102	3.1	1 ⅛	Left Hand	60
	26	549	567	4.6	28.6		
1 ¼	1.250	188	150	4.5	1 ½	Left Hand	60
	32	807	834	6.7	38.1		
1 ⅜	1.580	237	190	5.7	1 ⅝	Left Hand	60
	36	1019	1054	8.5	41.3		
1 ¾	2.600	400	320	9.1	2	Left Hand	50
	46	1664	1779	13.5	50.8		
2 ½	5.190	778	622	18.3	2 ¾	Left Hand	50
	65	3350	3457	27.2	69.9		
3	7.060	1059	847	24.0	3 ¼	Left Hand	50
	75	4169	4702	35.7	82.6		

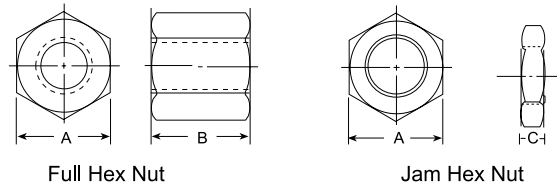
1 inch to 1 ⅜ inch: ASTM A-722. 1 ⅜ inch to 3 inches: Certified ksi only. *Other thread orientation available upon request.

Threaded Bar & Accessories

Threaded Bar Connectors



Hex Nuts (Full and Jam Nuts)



Grade 75 Bar		
Bar Designation	OD in (mm)	L in (mm)
#6	1.250 31.8	3.500 88.9
#7	1.375 34.9	4.000 101.6
#8	1.625 41.3	4.500 114.3
#9	1.875 47.6	5.000 127.0
#10	2.000 50.8	5.500 139.7
#11	2.250 57.2	6.000 152.4
#14	2.875 73.0	7.875 200.0
#18	3.500 88.9	9.125 231.8
#20	4.000 101.6	9.500 241.3
#24	4.750 120.6	10.750 273.0
#28	5.500 139.7	12.000 304.8

Grade 75 Bar			
Bar Designation	A in (mm)	B in (mm)	C in (mm)
#6	1.250 31.8	1.625 41.3	0.375 9.5
#7	1.438 36.5	1.750 44.5	0.438 11.1
#8	1.625 41.3	2.000 50.8	0.500 12.7
#9	1.750 44.5	2.000 50.8	0.563 14.3
#10	2.000 50.8	2.187 55.5	0.625 15.9
#11	2.250 57.2	2.500 63.5	0.688 17.5
#14	2.750 69.9	3.250 82.6	0.938 23.8
#18*	3.500 88.9	3.500 88.9	1.000 25.4
#20*	4.000 101.6	4.000 101.6	1.125 28.6
#24**	4.750 120.6	4.500 114.3	1.500 38.1
#28**	5.500 139.7	6.000 152.4	1.563 39.7

*Round collar nut available **Round collar nut with flats

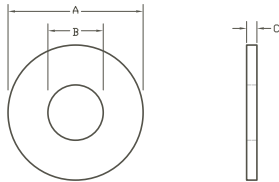
Grade 150 Bar		
Nominal Diameter in (mm)	OD in (mm)	L in (mm)
1 26	1.750 44.5	4.250 108.0
1 ¼ 32	2.125 54.0	5.250 133.4
1 ½ 36	2.375 60.3	5.750 146.1
1 ¾ 46	3.000 76.2	8.500 215.9
2 ½ 65	4.250 108.0	10.000 254.0
3 75	5.000 127.0	12.000 308.0

Grade 150 Bar			
Nominal Diameter in (mm)	A in (mm)	B in (mm)	C in (mm)
1 26	1.750 44.5	2.000 50.8	0.500 12.7
1 ¼ 32	2.250 57.2	2.500 63.5	0.625 15.9
1 ½ 36	2.500 63.5	2.750 69.9	0.750 19.1
1 ¾ 46	3.000 76.2	3.500 88.9	1.250 31.8
2 ½ 65	4.000 101.6	4.750 120.7	1.000 25.4
3* 75	5.000 127.0	6.125 155.6	2.000 50.8

*Round collar nut with flats with outside diameter of 5" (127mm).

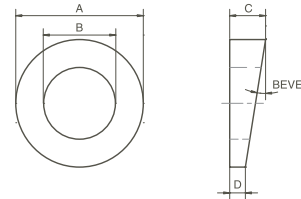
Threaded Bar & Accessories

Hardened Washers



Grade 75 Bar			
Bar Designation	A in (mm)	B in (mm)	C in (mm)
#6	1.750 44.5	1.130 28.6	0.150 3.8
#7	2.000 50.8	1.250 31.8	0.150 3.8
#8	2.250 57.2	1.380 34.9	0.150 3.8
#9	2.250 57.2	1.500 38.1	0.150 3.8
#10	2.250 57.2	1.630 41.3	0.150 3.8
#11	3.000 76.2	1.750 44.5	0.220 5.6
#14	3.375 85.7	2.130 54.0	0.280 7.1
#18	4.600 116.8	2.630 66.7	0.280 7.1
#20	5.000 127.0	3.000 76.2	0.280 7.1
#24	5.500 139.7	3.500 88.9	0.280 7.1
#28	6.000 152.4	4.000 101.6	0.313 8.0

Round Beveled Washers



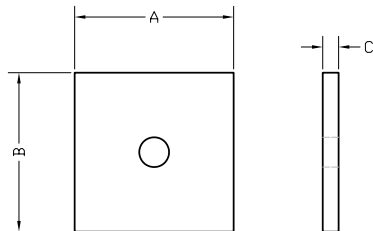
Grade 75 Bar					
Bar Designation	A in (mm)	B in (mm)	C in (mm)	D in (mm)	Bevel degrees
#6	1.75 44.5	0.875 22.2	0.250 6.4	0.125 3.2	15
#7	1.75 44.5	1.125 28.6	0.250 6.4	0.125 3.2	15
#8	1.75 44.5	1.25 31.8	0.270 6.9	0.188 4.8	15
#9	2.625 66.7	1.25 31.8	0.80 20.3	0.34 8.6	15
#10	2.75 44.5	1.63 41.4	1.64 41.7	0.23 5.8	15
#11	3.09 78.4	1.75 44.5	1.64 41.7	0.23 5.8	15
#14	4.00 101.6	2.13 54.1	1.64 41.7	0.23 10.9	15
#18	4.60 116.8	2.63 66.7	1.25 31.8	0.37 9.4	10
#20	5.00 127.0	3.00 76.2	1.75 44.5	0.43 10.9	10
#24	7.50 190.5	3.50 88.9	1.75 44.5	0.43 10.9	10
#28	8.00 203.2	4.00 101.6	2.25 57.2	0.84 21.3	10

Grade 150 Bar			
Nominal Diameter in (mm)	A in (mm)	B in (mm)	C in (mm)
1 26	2.250 57.2	1.250 31.8	0.156 4.0
1 ¼ 32	2.750 69.9	1.500 38.1	0.156 4.0
1 ½ 36	3.000 76.2	1.625 41.3	0.156 4.0
1 ¾ 46	3.750 95.3	2.130 54.1	0.218 5.5
2 ½ 65	5.000 127.0	2.875 73.0	0.218 5.5
3 75	6.000 152.4	3.375 85.7	0.313 8.0

Grade 150 Bar					
Nominal Diameter in (mm)	A in (mm)	B in (mm)	C in (mm)	D in (mm)	Bevel degrees
1 26	2.625 66.7	1.25 31.8	1.64 41.7	0.23 5.8	15
1 ¼ 32	2.750 69.9	1.63 41.4	1.64 41.7	0.23 9.4	15
1 ½ 36	3.090 78.5	1.75 44.5	1.64 41.7	0.23 10.9	15
1 ¾ 46	4.000 101.6	2.13 54.1	1.64 41.7	0.23 10.9	15
2 ½ 65	5.000 127.0	3.00 76.2	1.75 44.5	0.43 10.9	10
3 75	8.000 203.2	3.50 88.9	1.75 44.5	0.43 10.9	10

Threaded Bar & Accessories

Bearing Plates



Bearing plate dimensions reflect typical sizes.
Actual design criteria should be used for specific plate sizing.

Grade 75 Bar			
Bar Designation	A in (mm)	B in (mm)	C in (mm)
#6	6 152.4	6 152.4	$\frac{3}{8}$ 9.5
#7	6 152.4	6 152.4	$\frac{3}{8}$ 9.5
#8	8 203.2	8 203.2	$\frac{3}{4}$ 19.1
#9	8 203.2	8 203.2	$\frac{3}{4}$ 19.1
#10	8 203.2	8 203.2	1 25.4
#11	10 254.0	10 254.0	1 25.4
#14	10 254.0	10 254.0	1 ½ 38.1
#18	10 254.0	10 254.0	2 50.8
#20	10 254.0	10 254.0	2 ½ 63.5
#24	10 254.0	10 254.0	2 ½ 63.5
#28	12 304.8	12 304.8	2 ¾ 69.9

Grade 150 Bar			
Nominal Diameter in (mm)	A in (mm)	B in (mm)	C in (mm)
1 26	6 152.4	6 152.4	1 ¼ 31.8
1 ¼ 32	7 177.8	7 177.8	1 ½ 38.1
1 ¾ 36	8 203.2	8 203.2	1 ¾ 44.5
1 ¾ 46	9 228.6	9 228.6	1 ¾ 44.5
2 ½ 65	10 254.0	10 254.0	2 ½ 63.5
3 75	12 304.8	12 304.8	2 ¾ 69.9

Corrosion Protection Options

All threaded bars can be supplied with a protective smooth-walled PVC tube. While the standard PVC tube is 0.035 inch thick, other options are available upon request.

The following additional corrosion protection options are available for all threaded bars:

- Single Corrosion Protection (SCP)
- Double Corrosion Protection (DCP) Options
 - Encapsulating: Grease or Grout
 - Epoxy Coating
 - Galvanizing
 - Painting
 - Plating
 - Taping
 - Teflon Coating

Oversized accessories are provided to accommodate galvanized and coated bars.