



Tough, ductile, for high torqueing; accurate fit in all types of socket screws; size marked for quick identity

Mechanical Properties

Material: ANSI B18.3, alloy steel
Heat treat: Rc 47-57

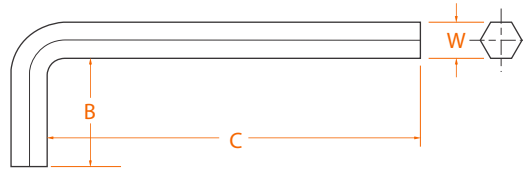
Torsional Shear and Yield Strength

size nom.	Torsional shear strength	Torsional yield
	inch-lbs. min	inch-lbs. min
.028	1.1	0.9
.035	2.3	2.0
.050	6.5	5.6
1/16	12.2	10.5
5/64	25.0	21.0
3/32	43.0	35.0
7/64	68.0	60.0
1/8	98.0	85.0
9/64	146.0	125.0
5/32	195.0	165.0
3/16	342.0	295.0
7/32	535.0	460.0
1/4	780.0	670.0
5/16	1,600.0	1,370.0
3/8	2,630.0	2,260.0
7/16	4,500.0	3,870.0
1/2	6,300.0	5,420.0
9/16	8,900.0	7,650.0
5/8	12,200.0	10,500.0
3/4	19,500.0	16,800.0
7/8	29,000.0	24,900.0
1	43,500.0	37,400.0
1 1/4	71,900.0	62,500.0
1 1/2	124,000.0	108,000.0
1 3/4	198,000.0	172,000.0
2	276,000.0	240,000.0

Marking

UNBRAKO & Size

Sizes 5/64 or Larger



Product Dimensions

size nom.	Width Across Flats W		Length of Short Arm B		C - Length of Long Arm					
	max	min	max	min	short series		long series		6" long arm	
					max	min	max	min		
.028	.0280	.0275	.312	.125	1.312	1.125	2.688	2.500	-	
.035	.0350	.0345	.438	.250	1.312	1.125	2.766	2.578	-	
.050	.0500	.0490	.625	.438	1.750	1.562	2.938	2.750	-	
1/16	.0625	.0615	.656	.469	1.844	1.656	3.094	2.906	-	
5/64	.0781	.0771	.703	.516	1.969	1.781	3.281	3.094	6.000	
3/32	.0937	.0927	.750	.562	2.094	1.906	3.469	3.281	6.000	
7/64	.1094	.1079	.797	.609	2.219	2.031	3.656	3.469	6.000	
1/8	.1250	.1235	.844	.656	2.344	2.156	3.844	3.656	6.000	
9/64	.1406	.1391	.891	.703	2.469	2.281	4.031	3.844	6.000	
5/32	.1562	.1547	.938	.750	2.594	2.406	4.219	4.031	6.000	
3/16	.1875	.1860	1.031	.844	2.844	2.656	4.594	4.406	6.000	
7/32	.2187	.2172	1.125	.938	3.094	2.906	4.969	4.781	6.000	
1/4	.2500	.2485	1.219	1.031	3.344	3.156	5.344	5.156	6.000	
5/16	.3125	.3110	1.344	1.156	3.844	3.656	6.094	5.906	6.000	
3/8	.3750	.3735	1.469	1.281	4.344	4.156	6.844	6.656	6.000	
7/16	.4375	.4355	1.594	1.406	4.844	4.656	7.594	7.406	-	
1/2	.5000	.4975	1.719	1.531	5.344	5.156	8.344	8.156	-	
9/16	.5625	.5600	1.844	1.656	5.844	5.656	9.094	8.906	-	
5/8	.6250	.6225	1.969	1.781	6.344	6.156	9.844	9.656	-	
3/4	.7500	.7470	2.219	2.031	7.344	7.156	11.344	11.156	-	
7/8	.8750	.8720	2.469	2.281	8.344	8.156	12.844	12.656	-	
1	1.0000	.9970	2.719	2.531	9.344	9.156	14.344	14.156	-	
1 1/4	1.2500	1.2430	3.250	2.750	11.500	11.000	-	-	-	
1 1/2	1.5000	1.4930	3.750	3.250	13.500	13.000	-	-	-	
1 3/4	1.7500	1.7430	4.250	3.750	15.500	15.000	-	-	-	
2	2.0000	1.9930	4.750	4.250	17.500	17.000	-	-	-	