



Diameter / Decimal / Metric Chart for Small Diameters



Gauge or Diameter	Decimal (in)	mm
No. 0000	0.021	.53
No. 000	0.034	.86
No. 00	0.047	1.19
No. 0	0.060	1.524
No. 1	0.073	1.854
No. 2	0.086	2.184
No. 3	0.099	2.515
No. 4	0.112	2.845
No. 5	0.125	3.175
No. 6	0.138	3.505
No. 8	0.164	4.166
No. 10	0.190	4.826
No. 12	0.216	5.484

Fastener Conversion Chart



Inch Equivalent		Metric Size
UNC	UNF	Pitch ISO and IFI Rec.
1 - 64	1 - 72	M2 x 0.4
3 - 48	3 - 56	M2.5 x 0.45
4 - 40	4 - 48	M3 x 0.05
6 - 32	6 - 40	M3.5 x 0.06
8 - 32	8 - 36	M4 x 0.07
10 - 24	10 - 32	M5 x 0.08
1/4 - 20	1/4 - 28	M6 x 1
5/16 - 18	5/16 - 24	M8 x 1.25
3/8 - 16	3/8 - 24	M10 x 1.5
7/16 - 14	7/16 - 20	M12 x 1.75
1/2 - 13	1/2 - 20	M14 x 2
9/16 - 12	9/16 - 18	-
5/8 - 11	5/8 - 18	M18 x 2
3/4 - 10	3/4 - 16	M20 x 2.5
7/8 - 9	7/8 - 14	M22 x 2.5
1 - 8	1 - 12	M24 x 3
1-1/8 - 7	1-1/8 - 12	-
1-1/4 - 7	1-1/4 - 12	M30 x 3.5
1-3/8 - 6	1-3/8 - 12	M36 x 4
1-1/2 - 6	1-1/2 - 12	-

MINIMUM STRENGTHS



METRIC (ISO 898) **INCH (SAE J429)**

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Grade: 4, 8 (4.6, 5.8) Grade: 2
Tensile: 429 MPa Tensile: 60,000 psi
(60,900 psi)

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Grade: 8.8 Grade: 5
Tensile: 830 MPa Tensile: 120,000 psi
(120,350 psi)

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Grade: 10.9 Grade: 8
Tensile: 1040 MPa Tensile: 150,000 psi
(150,800 psi)

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Grade: 12.9 Grade: ASTM-A574
Tensile: 1220 MPa Tensile: 170,000 psi
(176,900 psi) Note: Generally not marked

**Approximate Equivalency Chart Metric/US
Roughly Equivalent US Bolt Materials**

Metric Nut Class	SAE J429 Normally Used	Grades	ASTM Grade
4.6	4 or 5	1	A307, Grade A
4.8	4 or 5	2	
5.8	5	2	
8.8	8	5	A325, A449
9.8	9	5+	A193, B7 and B16
10.9	10 or 12	8	A490, A354, Grade 8D
12.9	10 or 12		A540, B21 through B24

Common DIN Numbers for Metric Fasteners

DIN	Hex Cap Screws
931	Coarse thread pitch partially threaded (specify grade)
933	Coarse thread pitch fully threaded (specify grade)
960	Fine thread pitch partially threaded (specify grade)
961	Fine thread pitch fully threaded (specify grade)
DIN	Nuts
934	Hex Nuts (specify pitch and class)
985	Nylon Insert Locknuts (specify pitch and class)
980V	All Metal Locknuts (specify pitch and class)
DIN	Washers
125	Flat Washers
127	Lock Washers
DIN	Socket Products
912	Socket Head Cap Screws (normally GR 12.9 and coarse thread)
7991	Flat Head Socket Cap Screws (normally GR 12.9 and coarse thread)
916	Socket Set Screws (normally GR 12.9 and coarse thread)
DIN	Machine Screws
7985	Pan Had Phillips Dive zinc plated
965	Flat Phillips Dive zinc plated
DIN	Threaded Rod
975	All Threaded Rod (normally 1 Meter lengths, specify grade and pitch)