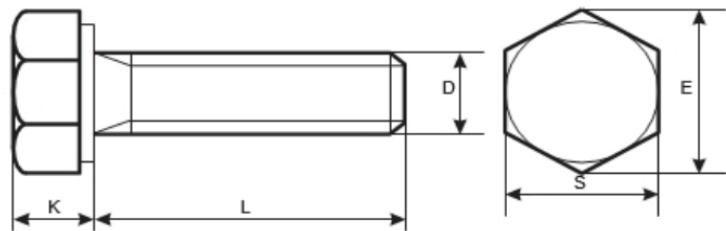
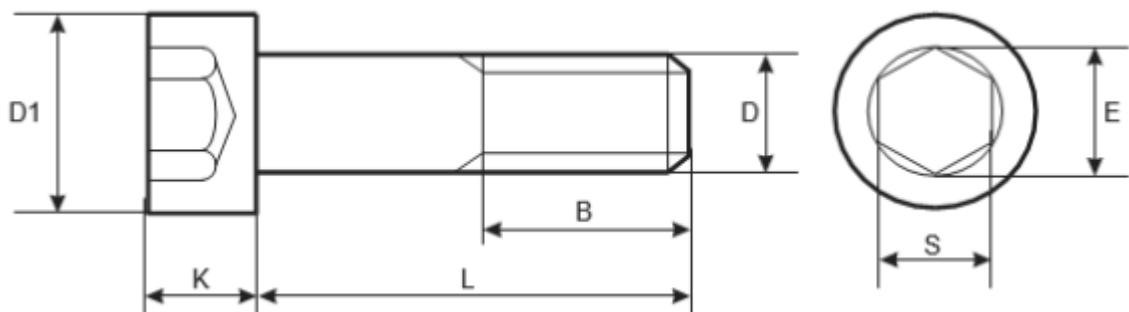


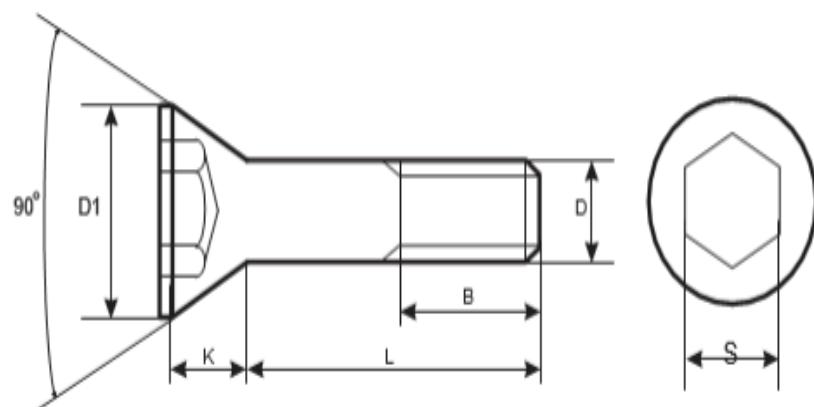
DIN933- HEX BOLT/HEXAGON HEAD CAP SCREW

Dimensions of Metric DIN 933 Hexagon Head Cap Screws / Bolts Full Thread

| Thread D | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 |
|----------|------|------|-------|-------|------|------|-------|-------|-------|-------|-------|-------|
| S | 7 | 8 | 10 | 13 | 17 | 19 | 22 | 24 | 27 | 30 | 32 | 36 |
| E | 7.74 | 8.87 | 11.05 | 14.38 | 18.9 | 21.1 | 24.49 | 26.75 | 30.14 | 33.14 | 35.72 | 39.98 |
| K | 2.8 | 3.5 | 4 | 5.5 | 7 | 8 | 9 | 10 | 12 | 13 | 14 | 15 |

| Thread D | M27 | M30 | M33 | M36 | M39 | M42 | M45 | M48 |
|----------|-------|-------|------|-------|-------|-------|-------|-------|
| S | 41 | 46 | 50 | 55 | 60 | 65 | 70 | 75 |
| E | 45.63 | 51.28 | 55.8 | 61.31 | 66.96 | 72.61 | 78.26 | 83.91 |
| K | 17 | 19 | 21 | 23 | 25 | 26 | 28 | 30 |

DIN912- HEXAGON SOCKET HEAD CAP SCREW/SHCS/ALLEN BOLT

Metric DIN 912 Hexagon Socket Head Cap Screw

| D | M3 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 |
|----|-----|----|-----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|
| D1 | 5.5 | 7 | 8.5 | 10 | 13 | 16 | 18 | 21 | 24 | 27 | 30 | 33 | 36 |
| K | 3 | 4 | 5 | 6 | 6 | 10 | 1 | 14 | 16 | 18 | 20 | 2 | 24 |
| S | 2.5 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 14 | 17 | 17 | 19 |
| B | 18 | 20 | 22 | 24 | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 60 |

DIN7991- FLAT COUNTERSUNK HEXAGON HEAD SOCKET CAP SCREW/ ALLEN CSK

Dimensions of Metric DIN 7991 Flat Countersunk Head Hexagon Socket Cap Screw

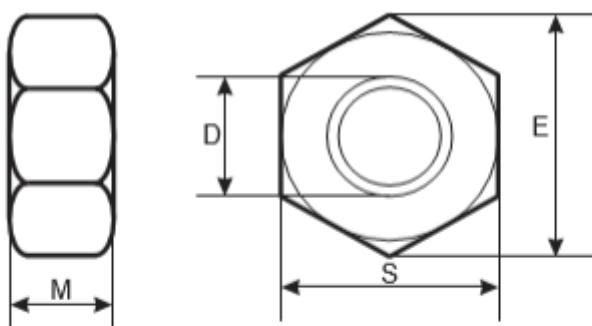
| D | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 20 | 24 |
|----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|----|
| D1 | 6 | 8 | 10 | 12 | 16 | 4 | 24 | 27 | 30 | 36 | 39 |
| K | 1.7 | 2.3 | 2.8 | 3.3 | 4.4 | 6.5 | 6.5 | 7 | 7.5 | 8.5 | 14 |
| S | 2 | 2.5 | 3 | 4 | 5 | 8 | 8 | 10 | 10 | 12 | 14 |
| B | 12 | 14 | 16 | 18 | 22 | 26 | 30 | 34 | 38 | 46 | 54 |

All measurements are in mm



Dimensional Standards

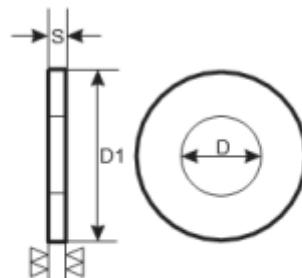
DIN934- HEXAGON NUTS/ HEX NUTS



Dimensions of Metric DIN 934 Hexagon Nuts

| Thread D | | M1.6 | M2 | M2.5 | M3 | M3.5 | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 |
|----------|------|------|-----|------|-----|------|-----|-----|------|------|------|------|------|------|------|
| P | | 0.35 | 0.4 | 0.45 | 0.5 | 0.6 | 0.7 | 0.8 | 1 | 1.25 | 1.5 | 1.75 | 2 | 2 | 2.5 |
| E | min. | 3.4 | 4.3 | 5.5 | 6.0 | 6.6 | 7.7 | 8.8 | 11.1 | 14.4 | 17.8 | 20.0 | 23.4 | 26.8 | 29.6 |
| M | max. | 1.3 | 1.6 | 2.0 | 2.4 | 2.8 | 3.2 | 4.7 | 5.2 | 6.8 | 8.4 | 10.8 | 12.8 | 14.8 | 15.8 |
| | min. | 1.1 | 1.4 | 1.8 | 2.2 | 2.6 | 2.9 | 4.4 | 4.9 | 6.4 | 8.0 | 10.4 | 12.1 | 14.1 | 15.1 |
| S | max. | 3.2 | 4.0 | 5.0 | 5.5 | 6.0 | 7.0 | 8.0 | 10.0 | 13.0 | 16.0 | 18.0 | 21.0 | 24.0 | 27.0 |
| | min. | 3.0 | 3.8 | 4.8 | 5.3 | 5.8 | 6.8 | 7.8 | 9.8 | 12.7 | 15.7 | 17.7 | 20.7 | 23.7 | 26.2 |

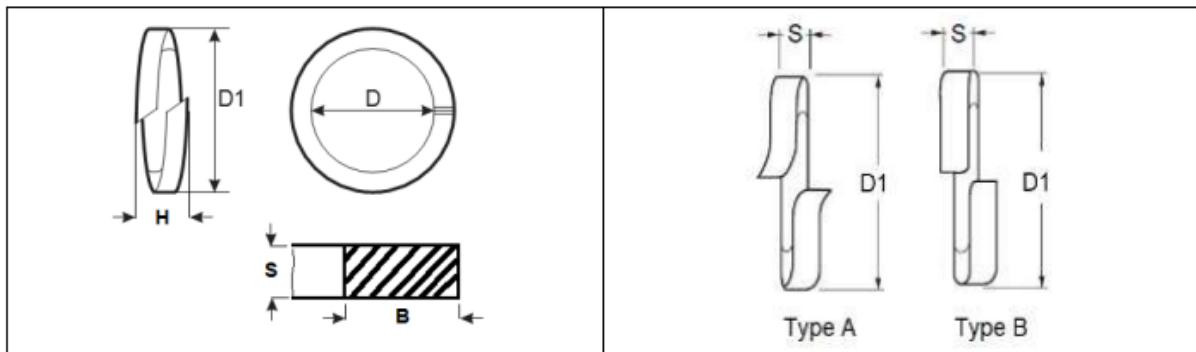
| Thread D | M20 | M22 | M24 | M27 | M30 | M33 | M36 | M39 | M42 | M45 | M48 | M52 | M56 | M60 | M64 | |
|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| P | | 2.5 | 2.5 | 3 | 3 | 3.5 | 3.5 | 4 | 4 | 4.5 | 4.5 | 5 | 5 | 5.5 | 5.5 | 6 |
| E | min. | 33.0 | 37.3 | 39.6 | 45.2 | 50.9 | 55.4 | 60.8 | 66.4 | 71.3 | 77.0 | 82.6 | 88.3 | 93.6 | 99.2 | 104.9 |
| M | max. | 18.0 | 19.4 | 21.5 | 23.8 | 25.6 | 28.7 | 31.0 | 33.4 | 34.0 | 36.0 | 38.0 | 42.0 | 45.0 | 48.0 | 51.0 |
| | min. | 16.9 | 18.1 | 20.2 | 22.5 | 24.3 | 27.4 | 29.4 | 31.8 | 32.4 | 34.4 | 36.4 | 40.4 | 43.4 | 46.4 | 49.1 |
| S | max. | 30.0 | 34.0 | 36.0 | 41.0 | 46.0 | 50.0 | 55.0 | 60.0 | 65.0 | 70.0 | 75.0 | 80.0 | 85.0 | 90.0 | 95.0 |
| | min. | 29.2 | 33.0 | 35.0 | 40.0 | 45.0 | 49.0 | 53.8 | 58.8 | 63.1 | 68.1 | 73.1 | 78.1 | 82.8 | 87.8 | 92.8 |

DIN125A- PLATE WASHER

 TYPE A
STRAIGHT

| Nominal Diameter | D | D1 | S |
|------------------|------|------|-----|
| M3 | 3.2 | 7 | 0.5 |
| M4 | 4.3 | 9 | 0.8 |
| M5 | 5.3 | 10 | 1 |
| M6 | 6.4 | 12.5 | 1.6 |
| M7 | 7.4 | 14 | 1.6 |
| M8 | 8.4 | 17 | 1.6 |
| M10 | 10.5 | 21 | 2 |
| M12 | 13 | 24 | 2.5 |
| M14 | 15 | 28 | 2.5 |
| M16 | 17 | 30 | 3 |
| M18 | 19 | 34 | 3 |
| M20 | 21 | 37 | 3 |
| M22 | 23 | 39 | 3 |
| M24 | 25 | 44 | 4 |
| M27 | 28 | 50 | 4 |
| M30 | 31 | 56 | 4 |
| M33 | 34 | 60 | 5 |
| M36 | 37 | 66 | 5 |

| Nominal Diameter | D | D1 | S |
|------------------|----|-----|----|
| M39 | 40 | 72 | 6 |
| M42 | 43 | 78 | 7 |
| M45 | 46 | 85 | 7 |
| M45 | 50 | 92 | 8 |
| M52 | 54 | 98 | 8 |
| M56 | 58 | 105 | 9 |
| M58 | 60 | 110 | 9 |
| M64 | 65 | 115 | 9 |
| M72 | 74 | 125 | 10 |

All measurements are in mm

DIN127B SPRING WASHER

Type DIN 127 A has bent up tang at both ends of the washer. Type B simply has square/straight ends.



Dimensional Standards

| Nominal Diameter | D min. | D max. | D1 max. | B | S | H min. | H max. |
|------------------|--------|--------|---------|------------|------------|--------|--------|
| M2 | 2.1 | 2.4 | 4.4 | 0.9 ± 0.1 | 0.5 ± 0.1 | 1 | 1.2 |
| M2.2 | 2.3 | 2.6 | 4.8 | 1 ± 0.1 | 0.6 ± 0.1 | 1.2 | 1.4 |
| M2.5 | 2.6 | 2.9 | 5.1 | 1 ± 0.1 | 0.6 ± 0.1 | 1.2 | 1.4 |
| M3 | 3.1 | 3.4 | 6.2 | 1.3 ± 0.1 | 0.8 ± 0.1 | 1.6 | 1.9 |
| M3.5 | 3.6 | 3.9 | 6.7 | 1.3 ± 0.1 | 0.8 ± 0.1 | 1.6 | 1.9 |
| M4 | 4.1 | 4.4 | 7.6 | 1.5 ± 0.1 | 0.9 ± 0.1 | 1.8 | 2.1 |
| M5 | 5.1 | 5.4 | 9.2 | 1.8 ± 0.1 | 1.2 ± 0.1 | 2.4 | 2.8 |
| M6 | 6.4 | 6.5 | 11.8 | 2.5 ± 0.15 | 1.6 ± 0.1 | 3.2 | 3.8 |
| M7 | 7.1 | 7.5 | 12.8 | 2.5 ± 0.15 | 1.6 ± 0.1 | 3.2 | 3.8 |
| M8 | 8.1 | 8.5 | 14.8 | 3 ± 0.15 | 2 ± 0.1 | 4 | 4.7 |
| M10 | 10.2 | 10.7 | 18.1 | 3.5 ± 0.2 | 2.2 ± 0.15 | 4.4 | 5.2 |
| M12 | 12.2 | 12.7 | 21.1 | 4 ± 0.2 | 2.5 ± 0.15 | 5 | 5.9 |
| M14 | 14.2 | 14.7 | 24.1 | 4.5 ± 0.2 | 3 ± 0.15 | 6 | 7.1 |
| M16 | 16.2 | 17 | 27.4 | 5 ± 0.2 | 3.5 ± 0.2 | 7 | 8.3 |
| M18 | 18.2 | 19 | 29.4 | 5 ± 0.2 | 3.5 ± 0.2 | 7 | 8.3 |
| M20 | 20.2 | 21.2 | 33.6 | 6 ± 0.2 | 4 ± 0.2 | 8 | 9.4 |



Dimensional Standards

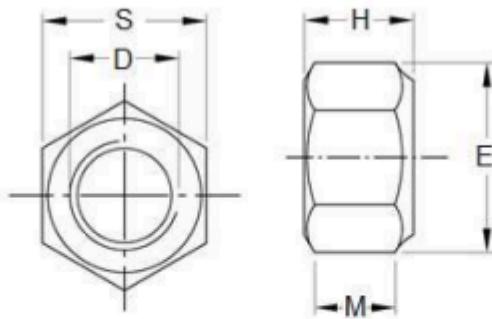
| Nominal Diameter | D min. | D max. | D1 max. | B | S | H min. | H max. |
|------------------|--------|--------|---------|-----------|----------|--------|--------|
| M22 | 22.5 | 23.5 | 35.9 | 6 ± 0.2 | 4 ± 0.2 | 8 | 9.4 |
| M24 | 24.5 | 25.5 | 40 | 7 ± 0.25 | 5 ± 0.2 | 10 | 11.8 |
| M27 | 27.5 | 28.5 | 43 | 7 ± 0.25 | 5 ± 0.2 | 10 | 11.8 |
| M30 | 30.5 | 31.7 | 48.2 | 8 ± 0.25 | 6 ± 0.2 | 12 | 14.2 |
| M36 | 36.5 | 37.7 | 58.2 | 10 ± 0.25 | 6 ± 0.2 | 12 | 14.2 |
| M39 | 39.5 | 40.7 | 61.2 | 10 ± 0.25 | 6 ± 0.2 | 12 | 14.2 |
| M42 | 42.5 | 43.7 | 66.2 | 12 ± 0.25 | 7 ± 0.25 | 14 | 16.5 |
| M45 | 45.5 | 46.7 | 71.2 | 12 ± 0.25 | 7 ± 0.25 | 14 | 16.5 |
| M48 | 49 | 50.6 | 75 | 12 ± 0.25 | 7 ± 0.25 | 14 | 16.5 |
| M52 | 53 | 54.6 | 83 | 14 ± 0.25 | 8 ± 0.25 | 16 | 18.9 |
| M56 | 57 | 58.5 | 87 | 14 ± 0.25 | 8 ± 0.25 | 16 | 18.9 |
| M60 | 61 | 62.5 | 91 | 14 ± 0.25 | 8 ± 0.25 | 16 | 18.9 |
| M64 | 65 | 66.5 | 95 | 14 ± 0.25 | 8 ± 0.25 | 16 | 18.9 |
| M68 | 69 | 70.5 | 99 | 14 ± 0.25 | 8 ± 0.25 | 16 | 18.9 |
| M72 | 73 | 74.5 | 103 | 14 ± 0.25 | 8 ± 0.25 | 16 | 18.9 |
| M80 | 81 | 82.5 | 111 | 14 ± 0.25 | 8 ± 0.25 | 16 | 18.9 |
| M90 | 91 | 92.5 | 121 | 14 ± 0.25 | 8 ± 0.25 | 16 | 18.9 |
| M100 | 101 | 102.5 | 131 | 14 ± 0.25 | 8 ± 0.25 | 16 | 18.9 |

All measurements are in mm



Dimensional Standards

DIN982- NYLON INSERT HEXAGON NUT/NYLOCK NUT



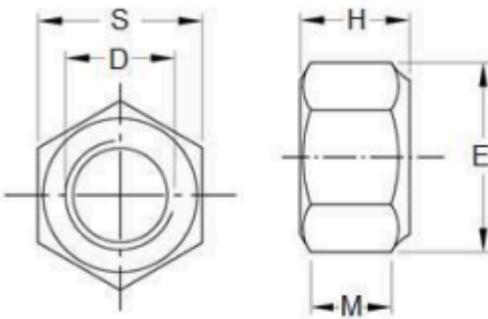
Dimensions of Metric DIN 982 Nylon Insert Hexagon Stop Lock Nuts High Type

| D | S | E | H | M |
|----------|----------|----------|----------|----------|
| M4 | 7 | 7.66 | 6 | 2.9 |
| M5 | 8 | 8.79 | 6.3 | 4.4 |
| M6 | 10 | 11.05 | 8 | 4.9 |
| M8 | 13 | 14.38 | 9.5 | 6.44 |
| M10 | 17 | 18.9 | 11.5 | 8.04 |
| M12 | 19 | 21.1 | 14 | 10.37 |
| M14 | 22 | 23.9 | 16 | 12.1 |
| M16 | 24 | 26.76 | 18 | 14.1 |
| M20 | 30 | 32.95 | 22 | 16.9 |
| M24 | 36 | 39.55 | 28 | 20.2 |



Dimensional Standards

DIN985- NYLON INSERT HEXAGON NUT/NYLOCK NUT



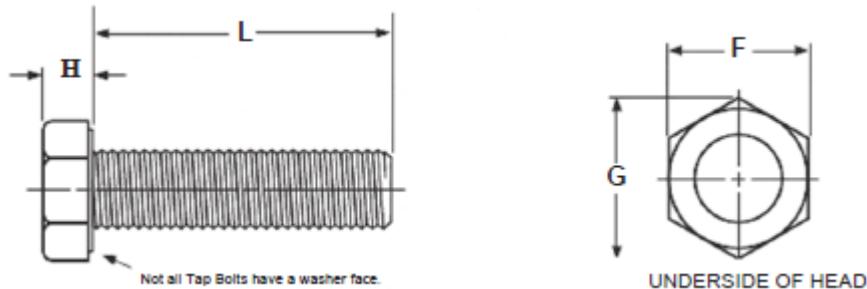
Dimensions of Metric DIN 985

| D | S | E | H | M | WEIGHT KG/1000pcs |
|-----|----|-------|------|------|----------------------|
| M4 | 7 | 7.66 | 5 | 2.9 | 1 |
| M5 | 8 | 8.79 | 5 | 3.2 | 1.4 |
| M6 | 10 | 11.05 | 6 | 4 | 2.4 |
| M8 | 13 | 14.38 | 8 | 5.5 | 5.1 |
| M10 | 17 | 18.9 | 10 | 6.5 | 10.6 |
| M12 | 19 | 21.1 | 12 | 8 | 17.2 |
| M14 | 22 | 24.49 | 14 | 9.5 | 26 |
| M16 | 24 | 26.75 | 16 | 10.5 | 34 |
| M18 | 27 | 29.56 | 18.5 | 13 | 45 |
| M20 | 30 | 32.95 | 20 | 14 | 65 |
| M22 | 32 | 35.03 | 22 | 15 | 75 |
| M24 | 36 | 39.55 | 24 | 15 | 100 |
| M27 | 41 | 45.02 | 27 | 17 | 162 |
| M30 | 46 | 50.82 | 30 | 19 | 212 |
| M33 | 50 | 55.37 | 33 | 22 | 317 |
| M36 | 55 | 60.79 | 36 | 25 | 415 |
| M39 | 60 | 66.44 | 39 | 27 | 499 |
| M42 | 65 | 72.09 | 42 | 29 | 628 |
| M45 | 70 | 76.95 | 45 | 32 | 771 |
| M48 | 75 | 82.6 | 48 | 36 | 998 |

ASME B18.2.1- HEXAGON HEAD CAP SCREW/HEX BOLT



Dimensional Standards



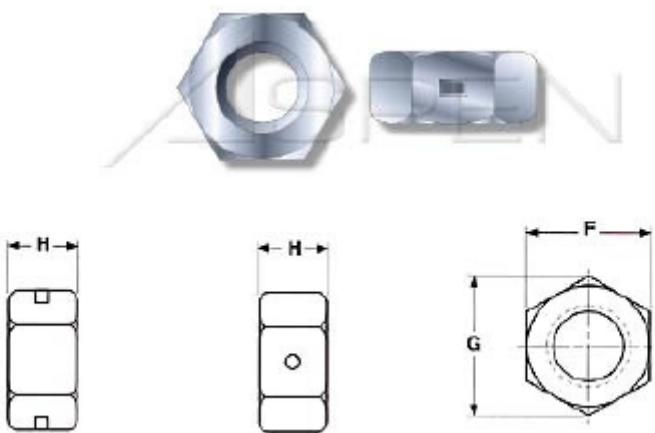
| Nominal or Basic Product Diameter | F | | | G | | H | | |
|-----------------------------------|--------------------|-------|-------|----------------------|-------|-------------|-------|-------|
| | Width Across Flats | | | Width Across Corners | | Head Height | | |
| | Basic | Max. | Min. | Max. | Min. | Basic | Max. | Min. |
| 1/4 | 7/16 | 0.438 | 0.428 | 0.505 | 0.488 | 5/32 | 0.163 | 0.150 |
| 5/16 | 1/2 | 0.500 | 0.489 | 0.577 | 0.557 | 13/64 | 0.211 | 0.195 |
| 3/8 | 9/16 | 0.562 | 0.551 | 0.650 | 0.628 | 15/64 | 0.243 | 0.226 |
| 7/16 | 5/8 | 0.625 | 0.612 | 0.722 | 0.698 | 9/32 | 0.291 | 0.272 |
| 1/2 | 3/4 | 0.750 | 0.736 | 0.866 | 0.840 | 5/16 | 0.323 | 0.302 |
| 9/16 | 13/16 | 0.812 | 0.798 | 0.938 | 0.910 | 23/64 | 0.371 | 0.348 |
| 5/8 | 15/16 | 0.938 | 0.922 | 1.083 | 1.051 | 25/64 | 0.403 | 0.378 |
| 3/4 | 1 1/8 | 1.125 | 1.100 | 1.299 | 1.254 | 15/32 | 0.483 | 0.455 |
| 7/8 | 1 5/16 | 1.312 | 1.269 | 1.516 | 1.447 | 37/64 | 0.604 | 0.531 |
| 1 | 1 1/2 | 1.500 | 1.450 | 1.732 | 1.653 | 43/64 | 0.700 | 0.591 |
| 1 1/4 | 1 7/8 | 1.875 | 1.812 | 2.165 | 2.066 | 27/32 | 0.876 | 0.749 |

| Tolerance on Length | Nominal Screw Size | Nominal Size | | | | |
|---------------------|--------------------|--------------------|--------------------------|--------------------------|----------------------|---------|
| | | Up to 1 in., incl. | Over 1" to 2-1/2", incl. | Over 2-1/2" to 4", incl. | Over 4" to 6", incl. | Over 6" |
| | | 1/4 to 3/8 | -0.03 | -0.04 | -0.06 | -0.10 |
| | 7/16 and 1/2 | -0.03 | -0.06 | -0.08 | -0.10 | -0.18 |
| | 9/16 to 3/4 | -0.03 | -0.08 | -0.10 | -0.10 | -0.18 |
| | 7/8 and 1 | — | -0.10 | -0.14 | -0.16 | -0.20 |
| | 1 1/4 | — | -0.12 | -0.16 | -0.18 | -0.22 |

ASME B18.2.2- HEXAGON NUTS/ HEX NUTS



Dimensional Standards

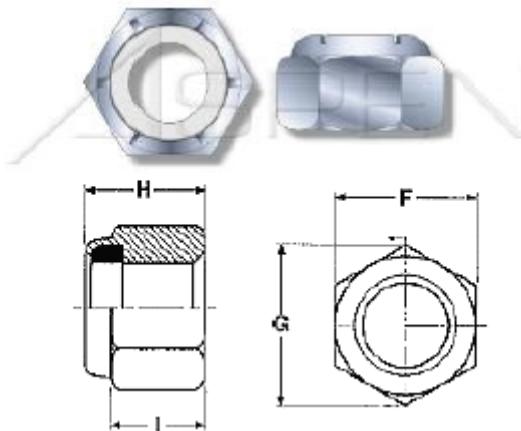


| Nominal or Basic Major Dia of Thread (inches) | F | | | G | | H | | | |
|---|--------------------|--------|-------|----------------------|-------|----------------|-------|-------|-------|
| | Width Across Flats | | | Width Across Corners | | Thickness | | | |
| | Basic (inches) | Max | Min | Max | Min | Basic (inches) | Max | Min | |
| #8 | 0.1640 | 11/32 | 0.344 | 0.332 | 0.397 | 0.378 | 3/16 | 0.193 | 0.178 |
| #10 | 0.1900 | 3/8 | 0.375 | 0.362 | 0.433 | 0.413 | 13/64 | 0.203 | 0.187 |
| 1/4 | 0.2500 | 7/16 | 0.438 | 0.428 | 0.505 | 0.488 | 1/32 | 0.226 | 0.212 |
| 5/16 | 0.3125 | 1/2 | 0.500 | 0.489 | 0.577 | 0.557 | 17/64 | 0.273 | 0.258 |
| 3/8 | 0.3750 | 9/16 | 0.562 | 0.551 | 0.650 | 0.628 | 21/64 | 0.337 | 0.32 |
| 7/16 | 0.4375 | 11/16 | 0.688 | 0.675 | 0.794 | 0.768 | 3/8 | 0.385 | 0.365 |
| 1/2 | 0.5000 | 3/4 | 0.750 | 0.736 | 0.866 | 0.840 | 7/16 | 0.448 | 0.427 |
| 9/16 | 0.5625 | 7/8 | 0.875 | 0.861 | 1.010 | 0.982 | 31/64 | 0.496 | 0.473 |
| 5/8 | 0.6250 | 1-5/16 | 0.938 | 0.922 | 1.083 | 1.051 | 35/64 | 0.559 | 0.535 |
| 3/4 | 0.7500 | 1-1/8 | 1.125 | 1.088 | 1.299 | 1.240 | 41/64 | 0.665 | 0.617 |
| 7/8 | 0.8750 | 1-5/16 | 1.312 | 1.269 | 1.516 | 1.447 | 3/4 | 0.776 | 0.724 |
| 1 | 1.0000 | 1-1/2 | 1.500 | 1.450 | 1.732 | 1.653 | 55/64 | 0.887 | 0.831 |



Dimensional Standards

ASME B18.2.2- HEXAGON NUTS/ HEX NUTS



| Nominal Size or Basic Thread Diameter | | ESNA Part Numbers | | | | F | | | H | | I | G |
|---------------------------------------|--------|-------------------|----------|-----------|---------|--------------------|-------|-------|-----------|-------|-------------|----------------------------|
| | | Steel, Zinc-plate | | Stainless | | Width Across Flats | | | Thickness | | Side Height | Width Across Corners (Ref) |
| | | Coarse | Fine | Coarse | Fine | Basic | Max | Min | Max | Min | | |
| 2 | 0.0860 | 21NM-26 | | 79NM-26 | | 1/4 | 0.251 | 0.243 | 0.153 | 0.133 | 0.081 | 0.268 |
| 3 | 0.0990 | 21NM-38 | | 79NM-38 | | 1/4 | 0.251 | 0.243 | 0.153 | 0.133 | 0.081 | 0.268 |
| 4 | 0.1120 | 21NM-40 | -- | 79NM-40 | -- | 1/4 | 0.251 | 0.243 | 0.153 | 0.133 | 0.081 | 0.268 |
| 5 | 0.1250 | 21NM-50 | -- | -- | -- | 1/4 | 0.251 | 0.243 | 0.153 | 0.133 | 0.081 | 0.268 |
| 6 | 0.1380 | 21NM-62 | -- | 79NM-62 | -- | 5/16 | 0.313 | 0.305 | 0.180 | 0.168 | 0.103 | 0.339 |
| 8 | 0.1640 | 21NM-82 | -- | 79NM-82 | -- | 11/32 | 0.345 | 0.336 | 0.239 | 0.219 | 0.140 | 0.374 |
| 10 | 0.1900 | 21NM-04 | 21NM-02 | 79NM-04 | 79NM-02 | 3/8 | 0.376 | 0.367 | 0.249 | 0.229 | 0.140 | 0.410 |
| 12 | 0.2160 | 21NM-124 | 21NM-128 | 79NM-124 | | 7/16 | 0.439 | 0.430 | 0.328 | 0.298 | 0.225 | 0.482 |
| 1/4 | 0.2500 | 21NE-040 | 21NE-048 | 79NE-040 | -- | 7/16 | 0.439 | 0.430 | 0.328 | 0.298 | 0.225 | 0.482 |
| 5/16 | 0.3125 | 21NE058 | 21NE-054 | 79NE-058 | -- | 1/2 | 0.502 | 0.492 | 0.359 | 0.290 | 0.250 | 0.552 |
| 3/8 | 0.3750 | 21NE-066 | 21NE-064 | 79NE-066 | -- | 9/16 | 0.564 | 0.553 | 0.468 | 0.438 | 0.335 | 0.622 |
| 7/16 | 0.4375 | 21NE-074 | 21NE-070 | -- | -- | 11/16 | 0.627 | 0.616 | 0.468 | 0.438 | 0.324 | 0.698 |
| 1/2 | 0.5000 | 21NM-083 | 21NE-080 | 79NE-083 | -- | 3/4 | 0.752 | 0.741 | 0.609 | 0.579 | 0.464 | 0.837 |
| 9/16 | 0.5625 | 21NM-092 | 21NE-098 | -- | -- | 7/8 | 0.877 | 0.865 | 0.656 | 0.626 | 0.469 | 0.978 |
| 5/8 | 0.6250 | 21NE-101 | 21NE-108 | 79NE-108 | -- | 15/16 | 0.940 | 0.928 | 0.765 | 0.735 | 0.593 | 1.051 |
| 3/4 | 0.7500 | 41NE-120 | 41NE-126 | 79NE-120 | -- | 1-1/8 | 1.064 | 1.052 | 0.890 | 0.860 | 0.742 | 1.191 |
| 7/8 | 0.8750 | 41NE-149 | 41NE-144 | -- | -- | 1-5/16 | 1.252 | 1.239 | 0.999 | 0.969 | 0.790 | 1.403 |
| 1 | 1.0000 | 41NE-168 | 41NE-164 | -- | -- | 1-1/2 | 1.440 | 1.427 | 1.078 | 1.016 | 0.825 | 1.615 |
| 1 1/8 | 1.1250 | 41NE177 | -- | -- | -- | 1-11/16 | 1.627 | 1.614 | 1.203 | 1.141 | 0.930 | 1.826 |
| 1 1/4 | 1.2500 | 41NE-197 | 41NE-202 | -- | -- | 1-7/8 | 1.815 | 1.801 | 1.422 | 1.360 | 1.125 | 2.038 |
| 1 1/2 | 1.5000 | 41NE-242 | -- | -- | -- | 2-1/4 | 2.197 | 2.159 | 1.640 | 1.578 | 1.313 | 2.444 |