

Steel

HEX COUPLING



HEX COUPLING NUTS

Coupling Nut Supply

| Nominal Size and Threads per Inch | Basic Major Diameter of Thread | F | | | G | | H | | |
|-----------------------------------|--------------------------------|--------------------|-------|-------|----------------------|-------|--------|------|------|
| | | Width Across Flats | | | Width Across Corners | | Length | | |
| | | Basic | Max | Min | Max | Min | Basic | Max | Min |
| 8-32 | 0.1640 | 5/16 | 0.312 | 0.302 | 0.361 | 0.344 | 5/8 | 0.64 | 0.61 |
| 10-24 | 0.1900 | 5/16 | 0.312 | 0.302 | 0.361 | 0.344 | 3/4 | 0.76 | 0.74 |
| 10-32 | 0.1900 | 5/16 | 0.312 | 0.302 | 0.361 | 0.344 | 3/4 | 0.76 | 0.74 |
| 1/4-20 | 0.2500 | 3/8 | 0.375 | 0.365 | 0.433 | 0.416 | 7/8 | 0.89 | 0.86 |
| 1/4-20 | 0.2500 | 7/16 | 0.438 | 0.428 | 0.505 | 0.488 | 1-1/2 | 1.51 | 1.48 |
| 1/4-20 | 0.2500 | 7/16 | 0.438 | 0.428 | 0.505 | 0.488 | 1-3/4 | 1.76 | 1.73 |
| 1/4-28 | 0.2500 | 3/8 | 0.375 | 0.365 | 0.433 | 0.416 | 7/8 | 0.89 | 0.86 |
| 5/16-18 | 0.3125 | 7/16 | 0.438 | 0.428 | 0.505 | 0.488 | 7/8 | 0.89 | 0.86 |
| 5/16-18 | 0.3125 | 1/2 | 0.500 | 0.489 | 0.577 | 0.557 | 7/8 | 0.89 | 0.86 |
| 5/16-18 | 0.3125 | 1/2 | 0.500 | 0.489 | 0.577 | 0.557 | 1-1/8 | 1.13 | 1.11 |
| 5/16-24 | 0.3125 | 7/16 | 0.438 | 0.428 | 0.505 | 0.488 | 7/8 | 0.89 | 0.86 |
| 3/8-16 | 0.3750 | 1/2 | 0.500 | 0.489 | 0.577 | 0.557 | 1-1/8 | 1.13 | 1.11 |
| 3/8-16 | 0.3750 | 9/16 | 0.562 | 0.551 | 0.650 | 0.628 | 1-3/4 | 1.76 | 1.69 |
| 3/8-16 | 0.3750 | 5/8 | 0.625 | 0.613 | 0.722 | 0.698 | 1-3/4 | 1.76 | 1.73 |
| 3/8-24 | 0.3750 | 1/2 | 0.500 | 0.489 | 0.577 | 0.557 | 1-1/8 | 1.13 | 1.11 |
| 1/2-13 | 0.5000 | 5/8 | 0.625 | 0.613 | 0.722 | 0.698 | 1-1/4 | 1.26 | 1.24 |
| 1/2-13 | 0.5000 | 11/16 | 0.688 | 0.663 | 0.794 | 0.756 | 1-3/4 | 1.76 | 1.73 |
| 1/2-20 | 0.5000 | 5/8 | 0.625 | 0.613 | 0.722 | 0.698 | 1-1/4 | 1.26 | 1.24 |
| 5/8-11 | 0.6250 | 13/16 | 0.813 | 0.782 | 0.939 | 0.891 | 2-1/8 | 2.14 | 2.10 |
| 5/8-18 | 0.6250 | 13/16 | 0.813 | 0.782 | 0.939 | 0.891 | 2-1/8 | 2.14 | 2.10 |
| 3/4-10 | 0.7500 | 1 | 1.000 | 0.963 | 1.155 | 1.097 | 2-1/4 | 2.27 | 2.22 |
| 3/4-10 | 0.7500 | 1 | 1.000 | 0.963 | 1.155 | 1.097 | 2-1/4 | 2.27 | 2.22 |
| 3/4-16 | 0.7500 | 1 | 1.000 | 0.963 | 1.155 | 1.097 | 2-1/4 | 2.26 | 2.19 |
| 7/8-9 | 0.8750 | 1-1/4 | 1.250 | 1.212 | 1.443 | 1.382 | 2-1/2 | 2.53 | 2.47 |
| 1-8 | 1.0000 | 1-3/8 | 1.375 | 1.325 | 1.588 | 1.511 | 2-3/4 | 2.78 | 2.72 |

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|--------------------------------|---|
| Description | A double chamfered hex nut available in various widths and lengths. The length of the nut is greater than 2.5D where D equals the basic major thread diameter. Also referred to as rod couplings. |
| Applications/Advantages | Used to join two externally threaded parts of equal thread diameter and pitch, often two pieces of threaded rod. |
| Material | 1010 - 1018 or equivalent steel. 12L14 steel is commonly used in domestically manufactured coupling nuts. |
| Hardness | Rockwell B68 - C32 |
| Tensile Strength | 60,000 psi. minimum |
| Plating | See Appendix-A for plating information. |

NOTE: There is no single standard for coupling nut dimensions. These values are offered as a guide; deviations from these specifications may occur.