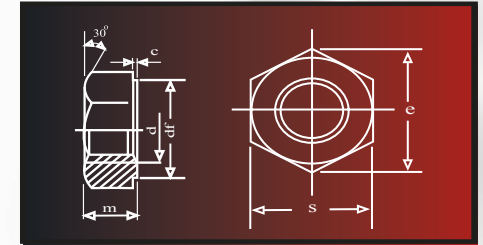


# HEXAGON NUT COMPARISON

## HEXAGON NUT COMPARISONS GRADE 8.8 & 10.9 AND DIMENSION

### Drawing



Diameter	M12 DIN 934	M12 BS 3692	M12 BS 4190 <sup>1</sup>	M12 BS EN 4034 <sup>2</sup>	M16 DIN 934	M16 BS 3692	M16 BS 4 190 <sup>1</sup>	M16 BS EN 4032 <sup>2</sup>	M20 DIN 934	M20 BS 3692	M20 BS 4190 <sup>1</sup>	M20 BS EN 4032 <sup>2</sup>	M22 DIN 934	M22 BS 3692	M22 BS 4190 <sup>1</sup>	M22 BS EN 4032 <sup>2</sup>
<b>Thickness (k)</b>	9.64-10.00	9.64-10.00	9.55-10.45	10.37-10.80	12.3-13.0	12.57-13.00	12.45-13.55	14.10-14.80	14.9-16.00	15.57-16.00	15.45-16.55	16.90-18.00	16.9-18.00	17.57-18.0	17.45-18.55	18.10-19.40
<b>Across Flats (s)</b>	18.67-19.0	18.67-19.00	18.48-19.00	17.73-18.00	23.67-24.00	23.67-24.00	23.16-24.00	23.67-24.00	29.16-30.0	29.67-30.00	29.16-30.00	29.16-30.00	31.0-32.0	31.61-32.0	31.00-32.00	33.00-34.00
<b>Across Corners (e)</b>	21.1-min	21.10-21.90	20.88-21.90	20.03-min	26.75-min	26.75-27.70	26.17-27.70	26.75-min	32.95-min	33.53-34.60	32.95-34.60	32.95-min	35.03-min	35.72-36.9	35.03-36.90	37.29-min
<b>SC/BZP Gr8 Proof</b>	67.0 kN	67.0 kN	67.0 kN	74.2 kN	126 kN	125 kN	125 kN	138.2 kN	196 kN	196 kN	196 kN	225.4 kN	242 kN	242 kN	242 kN	278.8 kN
<b>HDG/SHER Gr 10 Proof load minimum</b>	78.1 kN	84.0 kN	84.0 kN	88.5 kN	150 kN	157 kN	157 kN	164.9 kN	236 kN	245 kN	245 kN	259.7 kN	295 kN	303 kN	303 kN	321.2 kN
Diameter	M24 DIN 934	M24 BS 3692	M24 BS 4190 <sup>1</sup>	M24 BS EN 4032	M27 DIN 933	M27 BS 3692	M27 BS 4190 <sup>1</sup>	M27 BS EN 4032	M30 DIN 933	M30 BS 3692	M30 BS 4190 <sup>1</sup>	M30 BS EN 4032	M36 DIN 933	M36 BS 3692	M36 BS 4190 <sup>1</sup>	M36 BS EN 4032
<b>Thickness (k)</b>	17.7-19.00	18.48-19.00	18.35-19.65	20.20-21.50	20.7-22.00	21.48-22.00	21.35-22.65	22.50-23.80	22.7-24.0	23.48-24.00	23.35-24.65	24.30-24.60	27.4-29.0	28.48-27.0	28.35-29.65	29.40-31.00
<b>Across Flats (s)</b>	35.0-36.0	35.38-36.00	35.00-36.00	35.00-36.00	40.0-41.0	40.38-41.00	40.00-41.00	40.00-41.00	45.0-46.0	45.38-46.00	45.00-46.00	45.00-46.00	53.8-55.0	54.26-55.0	53.80-55.00	53.80-55.00
<b>Across Corners (e)</b>	39.55-min	39.98-41.60	39.55-41.60	39.55-min	45.20-min	45.63-47.30	45.20-47.30	45.20-min	50.85-min	51.28-53.10	50.85-53.10	50.85-min	60.79-min	61.31-63.5	60.79-63.50	60.79-min
<b>SC/BZP Gr8 Proof</b>	282 kN	282 kN	282 kN	324.8 kN	367 kN	367 kN	367 kN	422.3 kN	448 kN	448 kN	448 kN	516.1 kN	653 kN	653 kN	653 kN	751.6 kN
<b>HDG/SHER Gr 10 Proof load minimum</b>	342 kN	353 kN	353 kN	374.2 kN	450 kN	459 kN	459 kN	486.5 kN	551 kN	561 kN	561 kN	594.7 kN	808 kN	817 kN	817 kN	866 kN

- 1) BS 4190 Full nuts can be faced on one side or both sides, the figures started are for both sides.
- 2) BS EN ISO Full nuts can be style one or two, the figure started are for style one.