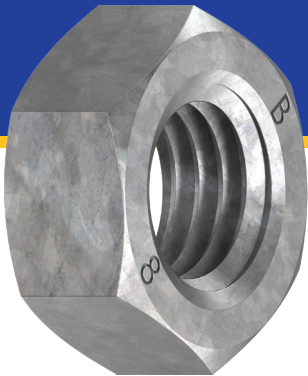


HEX NUT  
CLASS 8 METRIC

APPLICATION

Bremick® Hex Nuts Metric Class 8 are designed for industrial and construction applications where high tensile superior performance is required



PRODUCT ATTRIBUTES

|                        |                                    |
|------------------------|------------------------------------|
| Material Class:        | Carbon Steel Class 8 (Style 1, QT) |
| Thread Form:           | Metric 6H                          |
| Finish:                | Hot Dipped Galvanised              |
| Standard:              | Complies to AS 1112.1:2015         |
| Mechanical Properties: | Complies to ISO 898.2:2022         |
| Chemical Composition:  | Complies to ISO 898.2:2022         |

MARKING



In some cases, the Bremick marking will be replaced by the mark of the original manufacturer

MECHANICAL PROPERTIES

| DIAMETER (mm)                 |              |       | M5      | M6    | M8    | M10   | M12   | M14    | M16    | M18     | M20    | M24    | M27    | M30    | M33    | M36    | M39    |
|-------------------------------|--------------|-------|---------|-------|-------|-------|-------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|
| PROOF LOAD (N)                |              | MIN   | 12140   | 17200 | 31800 | 50500 | 74200 | 101200 | 138200 | 176600  | 225400 | 324800 | 452100 | 552600 | 683600 | 804700 | 961400 |
| STRESS UNDER PROOF LOAD (MPa) |              | MIN   | 860     |       | 885   |       | 895   |        |        | 965     |        |        | 985    |        |        |        |        |
| HARDNESS                      | VICKERS (HV) | RANGE | 200-334 |       |       |       |       |        |        | 233-334 |        |        |        |        |        |        |        |

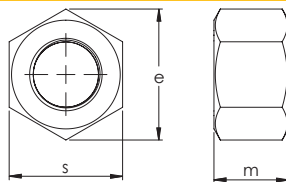
CHEMICAL COMPOSITION (%)

| MATERIAL     | C    |      | Mn   | P     | S     | TEMPERING TEMPERATURE °C |
|--------------|------|------|------|-------|-------|--------------------------|
|              | MIN  | MAX  | MIN  | MAX   | MAX   | MIN                      |
| CARBON STEEL | 0.15 | 0.58 | 0.45 | 0.048 | 0.058 | 380                      |

FINISH INFORMATION

| HOT DIPPED GALVANISED                                                                                                                                                                     |                                                                                                                                                                                                            |                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| DESCRIPTION                                                                                                                                                                               | OVERVIEW                                                                                                                                                                                                   | CORROSION RESISTANCE |
| Hot Dipped Galvanised is a process of dipping a steel object into a molten bath of zinc (455° - 480°C). The molten zinc adheres to the anchor surface covering all the corners and edges. | Bremick® Hot Dipped Galvanised Coating provides a moderate/high level of corrosion protection and is recommended for damp external application. Bremick® Hot Dipped Galvanising complies with AS/NZS 1214. | Moderate/High.       |

## DIMENSIONAL DATA (mm)



| DIAMETER | PITCH<br>(mm) | ACROSS FLATS<br>(s) |       | ACROSS CORNERS<br>(e) |  | NUT HEIGHT<br>(m) |       |
|----------|---------------|---------------------|-------|-----------------------|--|-------------------|-------|
|          |               | MIN                 | MAX   | MIN                   |  | MIN               | MAX   |
| M3       | 0.50          | 5.32                | 5.50  | 6.01                  |  | 2.15              | 2.40  |
| M4       | 0.70          | 6.78                | 7.00  | 7.66                  |  | 2.90              | 3.20  |
| M5       | 0.80          | 7.78                | 8.00  | 8.79                  |  | 4.40              | 4.70  |
| M6       | 1.00          | 9.78                | 10.00 | 11.05                 |  | 4.90              | 5.20  |
| M8       | 1.25          | 12.73               | 13.00 | 14.38                 |  | 6.44              | 6.80  |
| M10      | 1.50          | 15.73               | 16.00 | 17.77                 |  | 8.04              | 8.40  |
| M12      | 1.75          | 17.73               | 18.00 | 20.03                 |  | 10.37             | 10.80 |
| M14      | 2.00          | 20.67               | 21.00 | 23.36                 |  | 12.10             | 12.80 |
| M16      | 2.00          | 23.67               | 24.00 | 26.75                 |  | 14.10             | 14.80 |
| M18      | 2.50          | 26.16               | 27.00 | 29.56                 |  | 15.10             | 15.80 |
| M20      | 2.50          | 29.16               | 30.00 | 32.95                 |  | 16.90             | 18.00 |
| M24      | 3.00          | 35.00               | 36.00 | 39.55                 |  | 20.20             | 21.50 |
| M27      | 3.00          | 40.00               | 41.00 | 45.20                 |  | 22.50             | 23.80 |
| M30      | 3.50          | 45.00               | 46.00 | 50.85                 |  | 24.30             | 25.60 |
| M33      | 3.50          | 49.00               | 50.00 | 55.37                 |  | 27.40             | 28.70 |
| M36      | 4.00          | 53.80               | 55.00 | 60.79                 |  | 29.40             | 31.00 |
| M39      | 4.00          | 58.80               | 60.00 | 66.44                 |  | 31.80             | 33.40 |
| M42      | 4.50          | 63.10               | 65.00 | 71.30                 |  | 32.40             | 34.00 |
| M48      | 5.00          | 73.10               | 75.00 | 82.60                 |  | 36.40             | 38.00 |

## SOCKET OR SPANNER SIZE (mm)

| BOLT DIAMETER | M3  | M4 | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M24 | M27 | M30 | M33 | M36 | M39 | M42 | M48 |
|---------------|-----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| SPANNER SIZE  | 5.5 | 7  | 8  | 10 | 13 | 16  | 18  | 21  | 24  | 27  | 30  | 36  | 41  | 46  | 50  | 55  | 60  | 65  | 75  |