



NON - PRE LOAD BOLT ISO 4014

| STANDARDS | ISO 4014 (International Standard) | | | | | | | | | | | | | | | |
|---------------------------------------|-----------------------------------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|
| | M12 | | M16 | | M20 | | M22 | | M24 | | M27 | | M30 | | M36 | |
| Nominal Dia | 1.75 | | 2.00 | | 2.50 | | 2.50 | | 3.00 | | 3.00 | | 3.50 | | 4.00 | |
| Coarse Pitch | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| Thread Length ≤ 100 & ≥ 100 | 30 | 36 | 38 | 44 | 46 | 52 | 50 | 56 | 54 | 60 | 60 | 70 | 66 | 72 | 78 | 86 |
| Across Flat s | 17.57 | 17.73 | 23.16 | 23.67 | 29.16 | 29.67 | 33.00 | 33.38 | 35.00 | 35.37 | 40.00 | 41.00 | 45.00 | 46.00 | 53.80 | 54.80 |
| Across Corner e | 19.85 | 20.03 | 26.17 | 26.75 | 32.95 | 33.53 | 37.29 | 37.72 | 39.55 | 39.98 | 45.20 | 46.20 | 50.85 | 51.85 | 60.79 | 61.79 |
| Head Thickness k | 7.32 | 7.68 | 9.82 | 10.18 | 12.85 | 12.71 | 13.65 | 14.35 | 14.78 | 15.21 | 16.65 | 17.65 | 18.28 | 19.12 | 22.08 | 22.95 |
| Face Washer df | 16.50 | 16.55 | 22.05 | 22.10 | 27.75 | 27.80 | 29.40 | 29.60 | 33.30 | 33.45 | 36.80 | 36.90 | 42.80 | 43.00 | 51.20 | 51.25 |
| Face Washer Depth c | 0.15 | 0.6 | 0.2 | 0.8 | 0.2 | 0.8 | 0.2 | 0.8 | 0.2 | 0.8 | 0.2 | 0.8 | 0.2 | 0.8 | 0.2 | 0.8 |
| Radios r | 0.60 Min | | 0.60 Min | | 0.80 Min | | 0.80 Min | | 0.80 Min | | 1.00 Min | | 1.00 Min | | 1.00 Min | |
| Transition Diameter de | 13.7 | | 17.7 | | 22.40 | | 24.70 | | 26.40 | | 31.60 | | 33.40 | | 39.40 | |

| Characteristic | Standard | Size | Tensile Strength | Stress Area | Proof Load | Elongation | Reduction | Hardness | | |
|----------------------------|----------------------------|-------------------------|-------------------|-----------------|------------|------------|-----------|----------|-----|----|
| | | | N/mm ² | mm ² | Kn | % | % | min | max | |
| Full Threaded Bolts | | | | | | | | | | |
| General Requirement | ISO 8992 | M12 | 800 | 84.3 | 50.9 | 12 | 52 | 23 | 34 | |
| Material & Manufacture | BS EN ISO 898-1 Class 8.8 | M16 | 830 | 157 | 94.7 | 12 | 52 | 23 | 34 | |
| Mechanical Properties | BS EN ISO 898-1 Class 8.8 | M20 | 830 | 245 | 147 | 12 | 52 | 23 | 34 | |
| Thread Tolerance | 6g / ISO 724, ISO 965-1 | M22 | 830 | 303 | 182 | 12 | 52 | 23 | 34 | |
| Dimension | ISO 898-1 / ISO 4014 | M24 | 830 | 353 | 212 | 12 | 52 | 23 | 34 | |
| Finish / Coating | Self Color (Black) | ISO 4014 as Standard | M27 | 830 | 459 | 275 | 52 | 35 | 23 | 34 |
| | Hot Dip Galvanized | BS EN ISO 10684 / BS729 | M30 | 830 | 561 | 337 | 52 | 35 | 23 | 34 |
| | Zinc Electroplated | BS EN ISO 4042 | M36 | 830 | 817 | 490 | 52 | 35 | 23 | 34 |
| Product Marking | Bs EN ISO 898-1 / ISO 4014 | | | | | | | | | |

For other property classes see ISO898-1 for steel and ISO 3506-1 for stainless steel respectively.

Whichever is shorter.

All dimension are based on mm