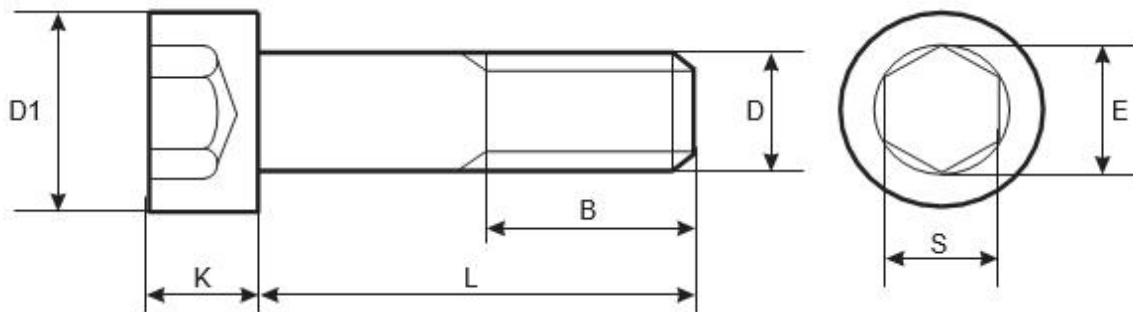


Metric DIN 912 Hexagon Socket Head Cap Screw



| D | M4 | M5 | M6 | M8 | M10 | M12 |
|-----------|-----------|-----------|-----------|-----------|------------|------------|
| D1 | 7 | 8.5 | 10 | 13 | 16 | 18 |
| K | 4 | 5 | 6 | 6 | 10 | 1 |
| S | 3 | 4 | 5 | 6 | 8 | 10 |
| B | 20 | 22 | 24 | 28 | 32 | 36 |

- 1) Mechanical properties of stainless steel for metric DIN 912 Hexagon Socket Head Cap Screws

| Steel Group | Steel Grade | Strength Class | Screws, Nuts and Bolts | | |
|--------------------|--------------------|-----------------------|--|------------------|--------------------------------------|
| | | | Tensile Strength N/mm² | Dia Range | Nut Load N/mm² |
| Austenitic | A2 and A4 | 70 | 700 | <=M20 | 700 |
| | | 80 | 800 | <=M20 | 800 |

The tensile stress is calculated with reference to the tensile stress area (see DIN EN ISO 3506-1979). Nuts to be paired with the same grade of stainless steel screws.

| Steel group | Property Strength class | Made from | Characteristics |
|--------------------|--------------------------------|------------------|---|
| Austenitic | 70 | A2, A4 | Cold worked, normal strength formed fasteners |
| | 80 | A2, A4 | Extreme cold worked, high strength, special |

2) Chemical composition of stainless steel metric DIN 912 Hexagon Socket Head Cap Screws

| Grade | AISI Grade | C % | ≤ Si % | ≤ Mn % | Cr % | Mo % | Ni % |
|--------------|-------------------|------------|---------------|---------------|--------------|-------------|--------------|
| A2 | 304 | ≤ 0.07 | 1.0 | 2.0 | 18.0 to 20.0 | - | 8.0 to 10.5 |
| A4 | 316L | ≤ 0.03 | 1.0 | 2.0 | 16.5 to 18.0 | 2.0 to 2.5 | 10.0 to 14.0 |

Disclaimer:

Dimensional data and technical information for Metric DIN 912 Hexagon Socket Head Cap Screws was obtained from publicly available sources and not acquired through standards agencies. It has been completed and compiled for reference purposes only; where discrepancies are found they are subject to change without notice. Compass Fasteners Pvt Ltd makes no warranties or representations regarding the accuracy and validity of the compiled information and data. Contact the relevant standards authorities for accurate and detailed information.