

Accoding To ISO 7379, Head Can Be Plain Or Knurled As Shown Here

| Shoulder Diameter d1 | 6(1) | 8 | 10 | 12 (1) | 16 |
|-----------------------------|-----------------|-----------------|----------|-----------------|----------|
| Shoulder min. | 5.960 | 7.951 | 9.951 | 11.941 | 15.941 |
| Shoulder max. | 5.990 | 7.987 | 9.987 | 11.984 | 15.984 |
| Shoulder Diameter Tolerance | 010 mm to040 mm | 013 mm to049 mm | | 016 mm to059 mm | |
| Shoulder Length Tolerance | +0.25 mm | +0.25 mm | +0.25 mm | +0.25 mm | +0.25 mm |
| Thread Size & Pitch d2 | M5x0.8 | M6x1 | M8x1.25 | M10x1.5 | M12x1.75 |
| Thread Class | 5g6g | 5g6g | 5g6g | 5g6g | 5g6g |
| Thread Length L2 | 9.5 | 11.0 | 13.0 | 16.0 | 18.0 |
| Head Diameter d3 | 10 | 13 | 16 | 18 | 24 |
| Head Height max. k | 4.50 | 5.50 | 7.00 | 9.00 | 11.00 |
| Head Height min. k | 4.32 | 5.32 | 6.78 | 7.78 | 9.73 |
| Drive Size s | 3 | 4 | 5 | 6 | 8 |
| Drive Depth min. t | 2.4 | 3.3 | 4.2 | 4.9 | 6.6 |
| Tensile Strength min. psi | 159500 | 159500 | 159500 | 159500 | 159500 |
| Shear Strength psi | 95700 | 95700 | 95700 | 95700 | 95700 |
| Rockwell Hardness | C39-C44 | C39-C44 | C39-C44 | C39-C44 | C39-C44 |

| Shoulder Diameter d1 | 20 | 24 (1) | Shoulder Bolts | Material | 12.9 | | |
|-----------------------------|-----------------|----------|--|----------|---------------|--|--|
| Shoulder min. | 19.928 | 23.928 | | Finish | Furnace Black | | |
| Shoulder max. | 19.980 | 23.980 | | Shoulder | Ground | | |
| Shoulder Diameter Tolerance | 020 mm to072 mm | | 100 | | _ | | |
| Shoulder Length Tolerance | +0.25 mm | +0.25 mm | Due to the undercut between the shoulder and the thread, the tightening torque has to be lowered from the normal torque for 12.9 material. The | | | | |
| Thread Size & Pitch d2 | M16x2 | M20x2.5 | | | | | |
| Thread Class | 5g6g | 5g6g | | | | | |
| Thread Length L2 | 22.0 | 27.0 | 12.9 material is to increase wear resistance on the shoulder. | | | | |
| Head Diameter d3 | 30 | 36 | 4 6 . 11. | | | | |
| Head Height max. k | 14.00 | 16.00 | The basic difference between ~ISO 7379 (1983) and ANSI B 18.3.3M (1986) is ANSI has a thread tolerance of 4g6g. | | | | |
| Head Height min. k | 13.73 | 15.73 | | | | | |
| Drive Size s | 10 | 12 | V | | | | |
| Drive Depth min. t | 8.8 | 10.0 | | | | | |
| Tensile Strength min. psi | 159500 | 159500 | (1) These sizes are not included in the ISO 7379 standard, but are the accepted sizes in today's market. ISO recognizes 6.5, 13, and 25mm, but these sizes are not readily available outside of production quantities. | | | | |
| Shear Strength psi | 95700 | 95700 | | | | | |
| Rockwell Hardness | C39-C44 | C39-C44 | | | | | |

FOR MORE DETAILED INFORMATION, PLEASE REFER TO COMPLETE ISO STANDARD, WHICH IS THE GOVERNING STANDARD

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