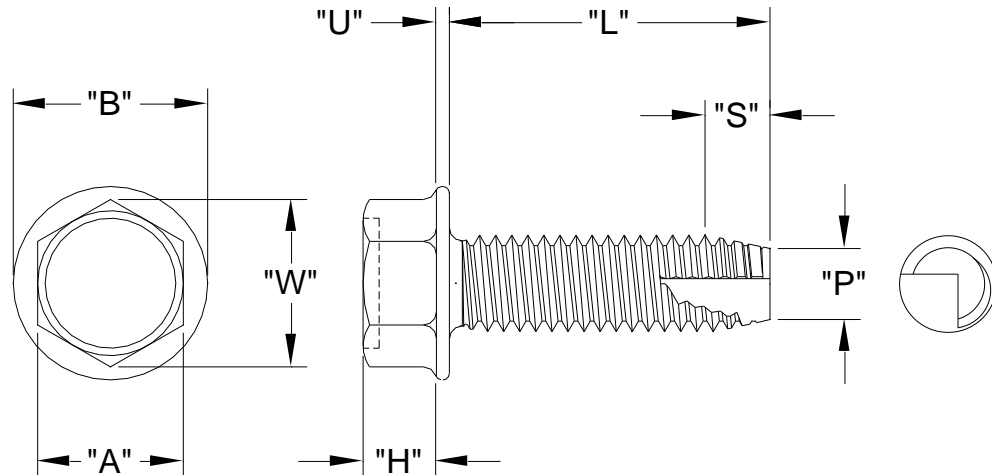


UNSLOTTED INDENTED HEX WASHER HEAD TYPE "23" TCS

| |
|-------------|
| XXXXUHW23Z |
| APRIL, 2014 |
| REV 00 |
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| Nominal Screw Length | Tolerance On Screw Length |
|-------------------------------|---------------------------|
| Up To & Including 3/4" | -0.03 |
| Over 3/4" to 1-1/2" Inclusive | -0.05 |
| Over 1-1/2" | -0.06 |



| Nominal Screw Size | Basic Screw Size | "D" | | "P" | | "S" | | | | Determination For Point Taper Length | "A" | | "W" | "H" | | "B" | | "U" | |
|-----------------------|---------------------|----------------|--------|----------------|-------|--------------------|-------|-------------|-------|---|--------------------|-------|----------------------------|-------------|-------|-----------------|-------|------------------|-------|
| | | Major Diameter | | Point Diameter | | Point Taper Length | | | | | Width Across Flats | | Width Across Corners | Head Height | | Washer Diameter | | Washer Thickness | |
| | | Max. | Min. | Max. | Min. | Short Screws | | Long Screws | | | Max. | Min. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| | | | | | | Max. | Min. | Max. | Min. | | | | | | | | | | |
| #4 - 40 | 0.112 | 0.1120 | 0.1061 | 0.087 | 0.078 | 0.088 | 0.062 | 0.112 | 0.088 | 7/32 | 0.188 | 0.181 | 0.202 | 0.060 | 0.049 | 0.243 | 0.225 | 0.019 | 0.011 |
| #6 - 32 | 0.138 | 0.1380 | 0.1312 | 0.107 | 0.096 | 0.109 | 0.078 | 0.141 | 0.109 | 1/4 | 0.250 | 0.244 | 0.272 | 0.093 | 0.080 | 0.328 | 0.302 | 0.025 | 0.015 |
| #8 - 32 | 0.164 | 0.1640 | 0.1571 | 0.132 | 0.122 | 0.109 | 0.078 | 0.141 | 0.109 | 1/4 | 0.250 | 0.244 | 0.272 | 0.110 | 0.096 | 0.348 | 0.322 | 0.031 | 0.019 |
| #10 - 24 | 0.190 | 0.1900 | 0.1818 | 0.148 | 0.135 | 0.146 | 0.104 | 0.188 | 0.146 | 11/32 | 0.312 | 0.305 | 0.340 | 0.120 | 0.105 | 0.414 | 0.384 | 0.031 | 0.019 |
| #10 - 32 | | 0.1900 | 0.1831 | 0.158 | 0.148 | 0.109 | 0.078 | 0.141 | 0.109 | 1/4 | | | | | | | | | |
| #12 - 24 | 0.216 | 0.2160 | 0.2078 | 0.174 | 0.161 | 0.146 | 0.104 | 0.188 | 0.146 | 11/32 | 0.312 | 0.305 | 0.340 | 0.155 | 0.139 | 0.432 | 0.398 | 0.039 | 0.022 |
| 1/4 - 20 | 0.250 | 0.2500 | 0.2408 | 0.200 | 0.184 | 0.175 | 0.125 | 0.225 | 0.175 | 13/32 | 0.375 | 0.367 | 0.409 | 0.190 | 0.172 | 0.520 | 0.480 | 0.050 | 0.030 |
| 5/16 - 18 | 0.313 | 0.3125 | 0.3026 | 0.257 | 0.239 | 0.194 | 0.139 | 0.250 | 0.194 | 15/32 | 0.500 | 0.489 | 0.545 | 0.230 | 0.208 | 0.676 | 0.624 | 0.055 | 0.035 |
| 3/8 - 16 | 0.375 | 0.3750 | 0.3643 | 0.312 | 0.293 | 0.219 | 0.156 | 0.281 | 0.219 | 1/2 | 0.562 | 0.551 | 0.614 | 0.295 | 0.270 | 0.780 | 0.720 | 0.063 | 0.037 |

Standard: ASME B18.6.3
 Material: Carbon Steel,
 Heat Treat: Case Hardened Rc45 Min.
 Finish: Commercial Zinc, Bake & ROHS Compliant Clear Chromate
 Per ASTM F1941 Code Fe/Zn 3A

Common Uses:
 Increased Bearing Surface w/o Adding A Washer.
 Used in sheet metal $\geq 60\%$ of screw dia.; Painted extruded sheet metal; Paint clearing in tapped holes.