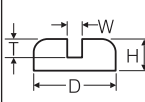


## Unified Screws Head Dimensions

| Head Type   | Dim | Screw Size |       |       |       |       |       |       |       |  |
|---|-----|------------|-------|-------|-------|-------|-------|-------|-------|--|
|   |     | No.1       | No.2  | No.3  | No.4  | No.6  | No.8  | No.10 | 4"    |  |
|  | H   | -          | 0.050 | -     | 0.065 | 0.075 | 0.080 | 0.130 | 0.160 |  |
|   | D   | -          | 0.160 | -     | 0.210 | 0.265 | 0.320 | 0.365 | 0.475 |  |
|   | T   | -          | 0.025 | -     | 0.035 | 0.045 | 0.050 | 0.060 | 0.085 |  |
|   | W   | -          | 0.028 | 0.075 | 0.035 | 0.045 | 0.050 | 0.055 | 0.070 |  |

All dimensions shown are maximum and in inches

## Unified Screws Test Data

| Thread Size | Suggested Max. Tightening Torque lbf.in | Failure Torque lbf.in | Tensile   |             | Double Shear |             |
|-------------|---|-----------------------|-----------|-------------|--------------|-------------|
|             |   |                       | Yield lbf | Failure lbf | Yield lbf    | Failure lbf |
| 4 - 40      | 1.0                                     | 1.5                   | 38        | 41          | 45           | 50          |
| 6 - 32      | 1.3                                     | 1.9                   | 65        | 69          | 91           | 97          |
| 8 - 32      | 3.5                                     | 5.0                   | 99        | 108         | 158          | 164         |
| 10 - 24     | 4.0                                     | 6.0                   | 139       | 149         | 187          | 257         |
| 10 - 32     | 4.9                                     | 7.0                   | 155       | 165         | 234          | 241         |
| 4 - 20      | 9.1                                     | 13.0                  | 296       | 312         | 413          | 432         |
| 5/16 - 18   | 26.0                                    | 37.0                  | 403       | 424         | 866          | 880         |
| 3/8 - 16    | 34.0                                    | 49.0                  | 480       | 513         | 1108         | 1173        |
| 2 - 13      | 92.0                                    | 132.0                 | 1393      | 1425        | 2276         | 2313        |
| 3/4 - 11    | 184.0                                   | 264.0                 | 2260      | 2303        | 3340         | 3410        |

N/A = Test data not available

1lbf = 4.448 N

1lbf.in = 0.113 Nm

Above information is for guidance only and should not be used to establish specifications or as the basis of a design

## Chemical Resistance Data

| Chemical                   | Concentration % | Nylon 66 | Polypropylene |
|----------------------------|-----------------|----------|---------------|
| Acetic acid                | 100             | P        | G             |
| Acetone                    | 100             | G        | G             |
| Ammonia Liquid             |                 | G        | G             |
| Aniline                    | 100             | P        | G             |
| Benzene                    | 100             | G        | P             |
| Bleaching Solutions Dilute |                 | N        | G             |
| Caustic Potash             | 10              | G        | G             |
| Caustic Potash             | 50              | G        | G             |
| Chlorine Water Saturated   |                 | P        | F             |
| Chloroform                 | 100             | N        | N             |
| Chromic Acid               | 10              | P        | G             |
| Citric Acid                | 10              | P        | G             |
| Detergent-Soaps            |                 | G        | G             |
| Ethanol                    | 80              | G        | G             |
| Ethylacetate               | 100             | G        | G             |
| Formic Acid                | 50              | N        | G             |
| Fuel Oil                   |                 | G        | P             |
| Glycerine                  |                 | F        | G             |
| Hydrochloric Acid          | 30              | N        | G             |
| Lactic Acid                | 10              | F        | G             |
| Methyl Alcohol             | 100             | G        | G             |
| Mineral Oil                |                 | G        | G             |

The above information is given on the assumption that the temperature of the chemical does not exceed 20°C

| Chemical               | Concentration % | Nylon 66 | Polypropylene |
|------------------------|-----------------|----------|---------------|
| Nitric Acid            | 10              | N        | G             |
| Nitric Acid            | 50              | N        | P             |
| Oleic Acid             | 100             | G        | G             |
| Oxalic Acid            | 10              | P        | G             |
| Petrol                 |                 | G        | P             |
| Phosphoric Acid        | 85              | N        | G             |
| Sea Water              |                 | G        | G             |
| Sodium Chloride (salt) |                 | G        | G             |
| Sodium Hydroxide       | 10              | G        | G             |
| Sodium Hydroxide       | 50              | G        | G             |
| Sodium Hypochloride    | 10              | N        | G             |
| Stearic Acid           | 100             | P        | G             |
| Sulphuric Acid         | 10              | N        | G             |
| Sulphuric Acid         | 100             | N        | N             |
| Tetrachloroethylene    |                 | G        | N             |
| Toluene                | 100             | G        | N             |
| Trichloroethylene      |                 | G        | N             |
| Turpentine             | 100             | G        | N             |
| Vaseline               |                 | G        | G             |
| Vegetable Oil          |                 | G        | G             |

Resistance Key: G = Good, F = Fair, P = Poor, N = Not suitable

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