

| DESIGNATION |        |          | PIN and BOX       |                     | PIN                  |                      |                      |                      | BOX                 |                     |                      |                      |                      |                      |                     |                     |
|-------------|--------|----------|-------------------|---------------------|----------------------|----------------------|----------------------|----------------------|---------------------|---------------------|----------------------|----------------------|----------------------|----------------------|---------------------|---------------------|
|             |        |          | GENERAL           |                     | REGULAR              |                      | SPECIAL CLEARANCE    |                      | GENERAL             |                     | REGULAR              |                      | SPECIAL CLEARANCE    |                      | GENERAL             |                     |
| DIAMETER    | WEIGHT | PRODUCT  | MINIMUM LENGTH    | ADD. LENGTH 1 RECUT | OUTSIDE DIAMETER min | OUTSIDE DIAMETER max | OUTSIDE DIAMETER min | OUTSIDE DIAMETER max | INSIDE DIAMETER min | INSIDE DIAMETER max | OUTSIDE DIAMETER min | OUTSIDE DIAMETER max | OUTSIDE DIAMETER min | OUTSIDE DIAMETER max | INSIDE DIAMETER min | INSIDE DIAMETER max |
| in.         | lb/ft  | ---      | inch (mm)         | inch (mm)           | inch (mm)            | inch (mm)            | inch (mm)            | inch (mm)            | inch (mm)           | inch (mm)           | inch (mm)            | inch (mm)            | inch (mm)            | inch (mm)            | inch (mm)           | inch (mm)           |
| 5.500       | 23.00  | TSH MAC™ | 4.940<br>(125.48) | 1.620<br>(41.15)    | 5.500<br>(139.70)    | na<br>(na)           | na<br>(na)           | na<br>(na)           | 4.580<br>(116.33)   | 4.600<br>(116.84)   | 5.710<br>(145.03)    | 5.730<br>(145.54)    | na<br>(na)           | na<br>(na)           | na<br>(na)          | 4.792<br>(121.72)   |
|             | 26.00  | TSH MAC™ | 5.000<br>(127.00) | 1.620<br>(41.15)    | 5.500<br>(139.70)    | na<br>(na)           | na<br>(na)           | na<br>(na)           | 4.458<br>(113.23)   | 4.478<br>(113.74)   | 5.758<br>(146.25)    | 5.778<br>(146.76)    | na<br>(na)           | na<br>(na)           | na<br>(na)          | 4.730<br>(120.14)   |
| 7.000       | 32.00  | TSH MAC™ | 5.000<br>(127.00) | 1.620<br>(41.15)    | 7.000<br>(177.80)    | na<br>(na)           | na<br>(na)           | na<br>(na)           | 6.044<br>(153.52)   | 6.064<br>(154.03)   | 7.273<br>(184.73)    | 7.293<br>(185.24)    | na<br>(na)           | na<br>(na)           | na<br>(na)          | 6.276<br>(159.41)   |
|             | 35.00  | TSH MAC™ | 5.640<br>(143.26) | 1.910<br>(48.51)    | 7.000<br>(177.80)    | na<br>(na)           | na<br>(na)           | na<br>(na)           | 5.914<br>(150.22)   | 5.934<br>(150.72)   | 7.278<br>(184.86)    | 7.298<br>(185.37)    | na<br>(na)           | na<br>(na)           | na<br>(na)          | 6.193<br>(157.30)   |
|             | 38.00  | TSH MAC™ | 5.640<br>(143.26) | 1.910<br>(48.51)    | 7.000<br>(177.80)    | na<br>(na)           | na<br>(na)           | na<br>(na)           | 5.830<br>(148.08)   | 5.830<br>(148.08)   | 7.348<br>(186.64)    | 7.368<br>(187.15)    | na<br>(na)           | na<br>(na)           | na<br>(na)          | 6.193<br>(157.30)   |
|             | 41.00  | TSH MAC™ | 5.640<br>(143.26) | 1.910<br>(48.51)    | 7.000<br>(177.80)    | na<br>(na)           | na<br>(na)           | na<br>(na)           | 5.730<br>(145.54)   | 5.750<br>(146.05)   | 7.353<br>(186.77)    | 7.373<br>(187.27)    | na<br>(na)           | na<br>(na)           | na<br>(na)          | 6.103<br>(155.02)   |
|             | 45.40  | TSH MAC™ | 6.390<br>(162.31) | 2.360<br>(59.94)    | 7.000<br>(177.80)    | na<br>(na)           | na<br>(na)           | na<br>(na)           | 5.570<br>(141.48)   | 5.590<br>(141.99)   | 7.409<br>(188.19)    | 7.429<br>(188.70)    | na<br>(na)           | na<br>(na)           | na<br>(na)          | 6.018<br>(152.86)   |
|             | 46.40  | TSH MAC™ | 6.390<br>(162.31) | 2.360<br>(59.94)    | 7.000<br>(177.80)    | na<br>(na)           | na<br>(na)           | na<br>(na)           | 5.536<br>(140.61)   | 5.556<br>(141.12)   | 7.424<br>(188.57)    | 7.444<br>(189.08)    | na<br>(na)           | na<br>(na)           | na<br>(na)          | 6.018<br>(152.86)   |
|             | 49.50  | TSH MAC™ | 6.460<br>(164.08) | 2.350<br>(59.69)    | 7.000<br>(177.80)    | na<br>(na)           | na<br>(na)           | na<br>(na)           | 5.450<br>(138.43)   | 5.470<br>(138.94)   | 7.425<br>(188.60)    | 7.445<br>(189.10)    | na<br>(na)           | na<br>(na)           | na<br>(na)          | 5.961<br>(151.41)   |
| 7.625       | 39.00  | TSH MAC™ | 5.640<br>(143.26) | 1.910<br>(48.51)    | 7.625<br>(193.68)    | na<br>(na)           | na<br>(na)           | na<br>(na)           | 6.535<br>(165.99)   | 6.555<br>(166.50)   | 7.914<br>(201.02)    | 7.934<br>(201.52)    | na<br>(na)           | na<br>(na)           | na<br>(na)          | 6.811<br>(173.00)   |
| 7.750       | 46.10  | TSH MAC™ | 6.390<br>(162.31) | 2.360<br>(59.94)    | 7.750<br>(196.85)    | na<br>(na)           | na<br>(na)           | na<br>(na)           | 6.520<br>(165.61)   | 6.540<br>(166.12)   | 8.138<br>(206.71)    | 8.158<br>(207.21)    | na<br>(na)           | na<br>(na)           | na<br>(na)          | 6.875<br>(174.63)   |
| 9.625       | 47.00  | TSH MAC™ | 5.690<br>(144.53) | 1.920<br>(48.77)    | 9.625<br>(244.48)    | na<br>(na)           | na<br>(na)           | na<br>(na)           | 8.651<br>(219.74)   | 8.671<br>(220.24)   | 10.026<br>(254.66)   | 10.046<br>(255.17)   | na<br>(na)           | na<br>(na)           | na<br>(na)          | 8.880<br>(225.55)   |
|             | 53.50  | TSH MAC™ | 5.690<br>(144.53) | 1.920<br>(48.77)    | 9.625<br>(244.48)    | na<br>(na)           | na<br>(na)           | na<br>(na)           | 8.510<br>(216.15)   | 8.530<br>(216.66)   | 10.060<br>(255.52)   | 10.080<br>(256.03)   | na<br>(na)           | na<br>(na)           | na<br>(na)          | 8.880<br>(225.55)   |
| 10.750      | 60.70  | TSH MAC™ | 5.690<br>(144.53) | 1.920<br>(48.77)    | 10.750<br>(273.05)   | na<br>(na)           | na<br>(na)           | na<br>(na)           | 9.620<br>(244.35)   | 9.640<br>(244.86)   | 11.198<br>(284.43)   | 11.218<br>(284.94)   | na<br>(na)           | na<br>(na)           | na<br>(na)          | 9.918<br>(251.92)   |
|             | 65.70  | TSH MAC™ | 5.690<br>(144.53) | 1.920<br>(48.77)    | 10.750<br>(273.05)   | na<br>(na)           | na<br>(na)           | na<br>(na)           | 9.520<br>(241.81)   | 9.540<br>(242.32)   | 11.203<br>(284.56)   | 11.223<br>(285.06)   | na<br>(na)           | na<br>(na)           | na<br>(na)          | 9.918<br>(251.92)   |

BLANK OD and ID: The nominal blank ODs and IDs in the Pin Diameters and Box Diameters columns are finished product dimensions. When this minimum material is supplied, the blank OD and the blank ID must be true to each other within 0.010" TIR (Total Indicator Runout). If the blank dimensions are not true to each other within 0.010" TIR, but sufficient material is available, the part may still be suitable for threading. If sufficient material is not available, the part will be returned unthreaded.

na: Not Applicable.

Blank spaces indicate product not currently available.