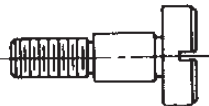
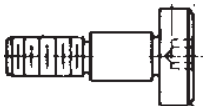
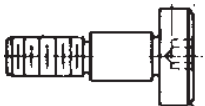
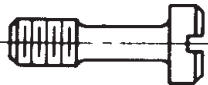




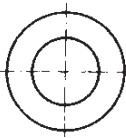


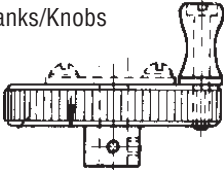

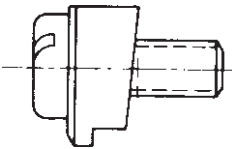
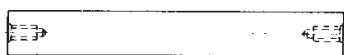
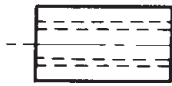
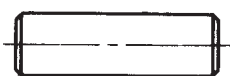

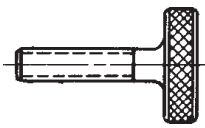
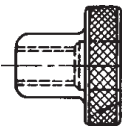
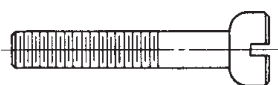

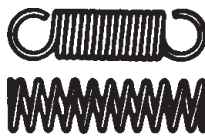
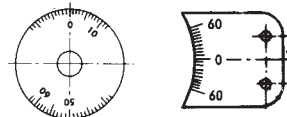


**PIC Design** offers an extensive line of precision Hardware which contains various items for fastening and/or locating of precision industrial components. The hardware is manufactured from Stainless Steel to the PIC high quality standards, in either inch or metric styles of thread, diameter and length.

The following pages have been included as a technical guide to aid the designer or engineer in selecting the appropriate screw type and size. The drill and tap data in inch for both the UNF and the UNC pieces,

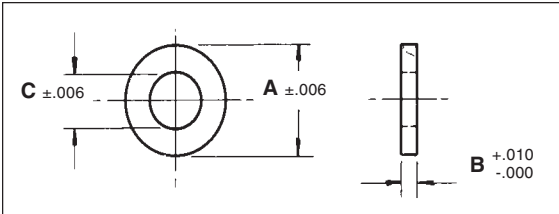
selects the correct drill to be used for the appropriate tap. For the metric ISO thread, the correct drill is recommended for the thread size and pitch.

The screw head detail data for both inch and metric heads enables the designer to select the appropriate type of head required and to allow for the clearance of the heads.

|   |   |   |  |
|---|---|---|--|
| Slotted head shoulder screws.<br>    | Socket head shoulder screws.<br> | Philips head shoulder screws.<br> | Captive Screws<br>        |
| No-Mar set screws<br>               | Silver-Grip set screws<br>      | Cup point set screws<br>         | Brass tip set screws<br> |
| Precision washers<br>              | Belleville spring washers<br>  | Curved washers<br>              | Cranks/Knobs<br>        |
| Retaining rings<br>                | Motor mount cleats<br>         | Spacers<br>                     | Standoffs<br>           |
| Dowel pins<br>                     | Woodruff keys<br>              | Knurled thumb screws<br>        | Knurled thumb nuts<br>  |
| Swivel studs, nuts and washers<br> | Handles<br>                    | Springs<br>                     | Dials and verniers<br>  |

# PRECISION WASHERS

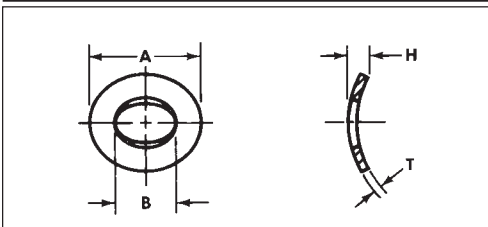
Machined



Material: 300 Series Stainless Steel

| Screw Size (Ref.) | A    | B    | C    | Part No. |
|-------------------|------|------|------|----------|
| # 4               | 1/4  |      | .116 | 3150     |
| # 6               | 5/16 | 1/16 | .144 | 3151     |
| # 8               | 3/8  |      | .169 | 3152     |
| #10               | 7/16 | 5/64 | .196 | 3153     |
| 1/4               | 1/2  |      | .257 | 3154     |
| 5/16              | 5/8  | 3/32 | .323 | 3155     |
| 3/8               | 3/4  |      | .386 | 3156     |

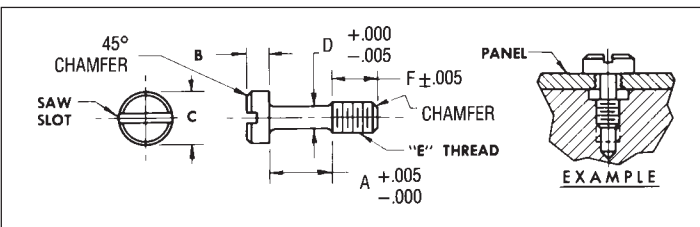
# CURVED WASHERS



Material: 300 Series Stainless Steel  
Spring Tempered

| A    | B    | T     | H (Approx.) | Hole Size | Screw Size | Part No. |
|------|------|-------|-------------|-----------|------------|----------|
| .245 | .135 | .006  | .034        | 1/4       | # 5        | D33-1    |
| .270 | .148 | .007  | .035        | 9/32      | # 6        | D33-2    |
| .322 | .174 | .0075 | .042        | 11/32     | # 8        | D33-3    |
| .370 | .200 | .009  | .047        | 3/8       | #10        | D33-4    |
| .490 | .265 | .011  | .063        | 1/2       | 1/4        | D33-6    |
| .612 | .327 | .013  | .077        | 5/8       | 5/16       | D33-7    |

# CAPTIVE SCREWS

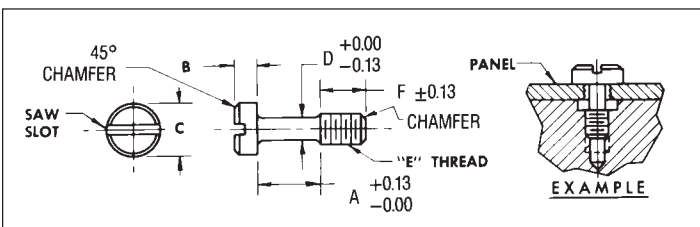


Material: 300 Series Stainless Steel

| For Panel Thickness | A    | B    | C    | D    | E      | F    | Part No. |
|---------------------|------|------|------|------|--------|------|----------|
| 1/16                | .281 |      |      |      |        |      | Y9-1     |
| 1/8                 | .343 | 1/8  | 1/4  | .072 | # 4-40 | .187 | Y9-2     |
| 1/16                | .312 |      |      |      |        |      | Y9-3     |
| 1/8                 | .375 | 1/8  | 9/32 | .086 | # 6-32 | .218 | Y9-4     |
| 3/16                | .437 |      |      |      |        |      | Y9-5     |
| 1/8                 | .406 |      |      |      |        |      | Y9-6     |
| 3/16                | .468 | 5/32 | 5/16 | .114 | # 8-32 | .250 | Y9-7     |
| 1/4                 | .531 |      |      |      |        |      | Y9-8     |
| 3/16                | .531 | 3/16 | 3/8  | .136 | #10-32 | .312 | Y9-9     |
| 1/4                 | .593 |      |      |      |        |      | Y9-10    |

# METRIC CAPTIVE SCREWS

All Dimensions In Millimeters



Material: 300 Series Stainless Steel

| For Panel Thickness | A     | B   | C   | D    | E  | F    | Part No. |
|---------------------|-------|-----|-----|------|----|------|----------|
| 1.5                 | 6.75  |     |     |      |    |      | MCS1-1   |
| 3                   | 8.25  | 2   | 5.2 | 2.14 | M3 | 4.50 | MCS1-2   |
| 3                   | 9.75  |     |     |      |    |      | MCS1-3   |
| 5                   | 11.75 | 2.8 | 7   | 2.89 | M4 | 6.00 | MCS1-4   |
| 6                   | 12.75 |     |     |      |    |      | MCS1-5   |
| 5                   | 13.25 | 3.5 | 9   | 3.77 | M5 | 7.50 | MCS1-6   |
| 6                   | 14.25 |     |     |      |    |      | MCS1-7   |