GENERAL PURPOSE CHARTS

Style 10

Style 11
Please call for protractor availability on all screen-styles at no additional cost for all comparator models

Style 12
RADIUS & ANGLE CHARTS

INCHES (4-way)

Style 20
- 10X mag. / .010 incr.
- 20X mag. / .005 incr.
- 50X mag. / .002 incr.
- 100X mag. / .001 incr.

Style 21
- 31.25X mag. / .002 incr.
- 62.50X mag. / .001 incr.

MILLIMETERS (4-way)

Style M20
- 10X mag. / 0.20 incr.
- 20X mag. / 0.10 incr.
- 50X mag. / 0.04 incr.
- 100X mag. / 0.02 incr.

Single magnification screens are now available for radius & angle charts in limited sizes.

SINGLE QUADRANT RADIUS CHARTS

INCHES (3-way)

Style 38
- 10X mag. / .010 incr.
- 20X mag. / .005 incr.
- 40X mag. / .0025 incr.
360° COMBINATION RADIUS CHARTS

INCHES (2-way)
Style 30 31.25X mag. / .002 incr.
       62.50X mag. / .001 incr.
Style 31 31.25X mag. / .005 incr.
       62.50X mag. / .0025 incr.

INCHES (4-way)
Style 35 10X mag. / .005 incr.
       20X mag. / .0025 incr.
       50X mag. / .001 incr.
       100X mag. / .0005 incr.
Style 36 10X mag. / .010 incr.
       20X mag. / .005 incr.
       50X mag. / .002 incr.
       100X mag. / .001 incr.

MILLIMETERS (4-way)
Style M37 10X mag. / 0.20 incr.
       20X mag. / 0.10 incr.
       50X mag. / 0.04 incr.
       100X mag. / 0.02 incr.

Single magnification screens are now available for 360 radius charts in limited sizes.

360° RADIUS & ANGLE CHARTS

INCLUDED ANGLES - 15° 30° 45° 60° 75°

INCHES (single mag. only)
Style 32 10X mag. / .005 incr.
       20X mag. / .002 incr.
       20X mag. / .0025 incr.
       25X mag. / .002 incr.
       31.25X mag. / .002 incr.
       50X mag. / .001 incr.
       62.50X mag. / .001 incr.
       100X mag. / .0005 incr.
GRID & RADIUS
CHARTS

**INCHES**

<table>
<thead>
<tr>
<th>Style</th>
<th>Magnification</th>
<th>Increment</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>10X mag.</td>
<td>.005 incr.</td>
</tr>
<tr>
<td>41</td>
<td>20X mag.</td>
<td>.0025 incr.</td>
</tr>
<tr>
<td>42</td>
<td>31.25X mag.</td>
<td>.002 incr.</td>
</tr>
<tr>
<td>43</td>
<td>50X mag.</td>
<td>.001 incr.</td>
</tr>
<tr>
<td>44</td>
<td>62.50X mag.</td>
<td>.001 incr.</td>
</tr>
<tr>
<td>45</td>
<td>100X mag.</td>
<td>.0005 incr.</td>
</tr>
<tr>
<td>46</td>
<td>20X mag.</td>
<td>.002 incr.</td>
</tr>
<tr>
<td>47</td>
<td>25X mag.</td>
<td>.002 incr.</td>
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**MILLIMETERS**

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<th>Increment</th>
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<tbody>
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<tr>
<td>M41</td>
<td>20X mag.</td>
<td>0.10 incr.</td>
</tr>
<tr>
<td>M42</td>
<td>31.25X mag.</td>
<td>0.05 incr.</td>
</tr>
<tr>
<td>M43</td>
<td>50X mag.</td>
<td>0.04 incr.</td>
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<tr>
<td>M44</td>
<td>62.50X mag.</td>
<td>0.025 incr.</td>
</tr>
<tr>
<td>M45</td>
<td>100X mag.</td>
<td>0.02 incr.</td>
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**GRID CHARTS**

**INCHES**

<table>
<thead>
<tr>
<th>Style</th>
<th>Magnification</th>
<th>Increment</th>
</tr>
</thead>
<tbody>
<tr>
<td>60</td>
<td>10X mag.</td>
<td>.005 incr.</td>
</tr>
<tr>
<td>61</td>
<td>10X mag.</td>
<td>.010 incr.</td>
</tr>
<tr>
<td>62</td>
<td>20X mag.</td>
<td>.0025 incr.</td>
</tr>
<tr>
<td>63</td>
<td>20X mag.</td>
<td>.005 incr.</td>
</tr>
<tr>
<td>64</td>
<td>31.25X mag.</td>
<td>.001 incr.</td>
</tr>
<tr>
<td>65</td>
<td>31.25X mag.</td>
<td>.002 incr.</td>
</tr>
<tr>
<td>66</td>
<td>31.25X mag.</td>
<td>.005 incr.</td>
</tr>
<tr>
<td>67</td>
<td>62.50X mag.</td>
<td>.001 incr.</td>
</tr>
<tr>
<td>68</td>
<td>50X mag.</td>
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</tr>
<tr>
<td>69</td>
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<td>.002 incr.</td>
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<tr>
<td>70</td>
<td>100X mag.</td>
<td>.0005 incr.</td>
</tr>
<tr>
<td>71</td>
<td>100X mag.</td>
<td>.001 incr.</td>
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**MILLIMETERS**

<table>
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<th>Increment</th>
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<tbody>
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<tr>
<td>M62</td>
<td>20X mag.</td>
<td>0.10 incr.</td>
</tr>
<tr>
<td>M68</td>
<td>50X mag.</td>
<td>0.04 incr.</td>
</tr>
<tr>
<td>M70</td>
<td>100X mag.</td>
<td>0.02 incr.</td>
</tr>
</tbody>
</table>

-5-
STEP RADIUS CHARTS

INCHES
Style 51  10X mag. / .001 incr.
Style 52  20X mag. / .001 incr.
Style 53  31.25X mag. / .001 incr.
Style 54  62.50X mag. / .001 incr.
Style 55  50X mag. / .001 incr.

FIVE-WAY RADIUS CHARTS

Style 50
INCHES (upper half)
31.25X mag. / .004 incr.
50X mag. / .0025 incr.
62.50X mag. / .002 incr.

INCHES (lower half)
10X mag. / .010 incr.
20X mag. / .005 incr.
90° FILLET CHARTS
available in all magnifications .001 thru .025. R. or .025 thru .050 R.
inches only at .001 increments

Style 75

Style 77

180° & 360° PROTRACTOR CHARTS
graduated in 1° increments & marked every 10°

Style 88

Style 89
INCHES | 14" DIA. | 20" DIA. | 30" DIA.
--- | --- | --- | ---
Style 85-1 | 0.1 - 11.0 | 0.1 - 17.0 | 0.1 - 21.0
Style 85-2 | 10.0 - 21.0 | 16.0 - 33.0 | 20.0 - 41.0
Style 85-3 | 20.0 - 31.0 | 32.0 - 49.0 | 40.0 - 61.0
Style 85-4 | 30.0 - 41.0 | 48.0 - 65.0 | 60.0 - 81.0
Style 85-5 | 40.0 - 51.0 | 64.0 - 81.0 | 80.0 - 101.0
Style 85-6 | 50.0 - 61.0 | 80.0 - 97.0 |
Style 85-7 | 60.0 - 71.0 | 96.0 - 113.0 |
Style 85-8 | 70.0 - 81.0 |
Style 85-9 | 80.0 - 91.0 |
Style 85-10 | 90.0 - 101.0 |

Notes:
1. Charts are labeled showing actual size of the radius as constructed at 1X.
2. Each chart is supplied with data sheets displaying radii at the following magnifications: 10X, 20X, 31.25X, 50X, 62.50X, 100X.
MULTI-PITCH
THREAD FORM CHARTS

7-80 PITCH

✓ Style T-30  National Thread forms per FED-STD-H28
✓ Style T-31  Unified Thread forms per FED-STD-H28
Style T-32  UNJ Thread forms per MIL-S-8879B
Style T-33  UNK/UNR Thread forms per MIL-B-7838B
Style T-56  ISO Metric Thread forms (0.25 - 4.00) per FED-STD-H28
Style T-57  Internal Unified Thread forms per FED-STD-H28
Style T-58  Internal ISO Metric Thread forms (0.25 - 4.00) per FED-STD-H28
Style T-59  Acme Thread forms per FED-STD-H28
Style T-60  Trapezoidal Metric Thread forms

Notes:
1. All thread charts are viewed perpendicular to the axis of the thread.
2. The generally accepted magnification for inspection of threads is 31.25X or greater. Please call for availability of lesser magnifications.
MULTI-PITCH
THREAD FORM CHARTS

8-13 PITCH
Style T-34
Style T-37
Style T-40
Style T-43

14-28 PITCH
Style T-35
Style T-38
Style T-41
Style T-44

32-56 PITCH
Style T-36
Style T-39
Style T-42
Style T-45

Unified form per FED-STD-H28
National form per FED-STD-H28
UNJ form per MIL-S-8879B
UNK/UNR form per MIL-B-7838B

Notes:
1. All thread charts are viewed perpendicular to the axis of the thread.
2. The generally accepted magnification for inspection of threads is 31.25X or greater. Please call for availability of lesser magnifications.
SINGLE OUTLINE THREAD FORM CHARTS

Style T-20 ACME form per FED-STD-H28
Style T-47 UNJ form per MIL-S-8879B
Style T-48 National form per FED-STD-H28
Style T-49 Unified form per FED-STD-H28
Style T-50 UNK/UNR form per MIL-B-7838B

Please include the following when ordering

* THREAD PITCH

RADIAL TOLERANCE THREAD FORM CHARTS

Style T-51 ACME form per FED-STD-H28
Style T-52 UNJ form per MIL-S-8879B
Style T-53 National form per FED-STD-H28
Style T-54 Unified form per FED-STD-H28

Please include the following when ordering

* THREAD PITCH
* THREAD CLASS
* MAJOR DIAMETER OF THREAD

Notes:
1. All thread charts are viewed perpendicular to the axis of the thread.
2. The generally accepted magnification for inspection of threads is 31.25X or greater.
   Please call for availability of lesser magnifications.
Style T-55
Per FED-STD-H28
100X magnification only

<table>
<thead>
<tr>
<th>Thread Size</th>
<th>Pitch MM</th>
<th>Thread Size</th>
<th>Pitch MM</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.30 UNM</td>
<td>0.080</td>
<td>0.70 UNM</td>
<td>0.175</td>
</tr>
<tr>
<td>0.35 UNM</td>
<td>0.090</td>
<td>0.80 UNM</td>
<td>0.200</td>
</tr>
<tr>
<td>0.40 UNM</td>
<td>0.100</td>
<td>0.90 UNM</td>
<td>0.225</td>
</tr>
<tr>
<td>0.45 UNM</td>
<td>0.100</td>
<td>1.00 UNM</td>
<td>0.250</td>
</tr>
<tr>
<td>0.50 UNM</td>
<td>0.125</td>
<td>1.10 UNM</td>
<td>0.250</td>
</tr>
<tr>
<td>0.55 UNM</td>
<td>0.125</td>
<td>1.20 UNM</td>
<td>0.250</td>
</tr>
<tr>
<td>0.60 UNM</td>
<td>0.150</td>
<td>1.40 UNM</td>
<td>0.300</td>
</tr>
</tbody>
</table>

Please include the following when ordering

* THREAD SIZE

Notes:
1. All thread charts are viewed perpendicular to the axis of the thread.
2. Thread data is shown on the chart for quick reference.
3. The generally accepted magnification for inspection of threads is 31.25X or greater.
   Please call for availability of lesser magnifications.