



Shim Rings

Standard

Washers / Collars / Shims

Shim Rings - Standard (Sold Individually)

| Standard Pack of 10 | Standard | Material | Hardness | Tolerances by Thickness | | | | | | | | | |
|---------------------|----------|-----------------------------|-----------------|-------------------------|------|--------|-------|-------|--------|-------|-------|-----|---|
| | | | | 0.01 | 0.02 | 0.03 | 0.05 | 0.1 | 0.2 | 0.3 | 0.5 | 1.0 | |
| PACK10-CIMRS | CIMRS | 304H Stainless Steel | 370-430 HV min. | ±0.003 | — | ±0.005 | ±0.02 | ±0.03 | ±0.035 | ±0.04 | ±0.05 | — | — |
| PACK10-CIMRB | CIMRB | C28000 Brass | — | — | — | ±0.005 | ±0.02 | ±0.03 | ±0.04 | ±0.05 | ±0.08 | — | — |
| PACK10-CIMR | CIMR | Low Carbon Steel Equivalent | — | — | — | — | ±0.03 | ±0.04 | ±0.06 | ±0.06 | ±0.11 | — | — |

304H Stainless Steel

| Part Number | D | T |
|-------------|--------------------------------------|------|
| 2 | 3, 4, 5, 6 | 0.01 |
| 3 | 4, 5, 6, 7, 8, 9, 10 | 0.02 |
| 4 | 5, 6, 7, 8, 9, 10, 12, 13 | 0.03 |
| 5 | 6, 7, 8, 9, 10, 12, 13, 14, 15, 16 | 0.05 |
| 6 | 7, 8, 9, 10, 12, 13, 14, 15, 16, 18 | 0.1 |
| 8 | 8, 9, 10, 12, 13, 14, 15, 16, 18, 20 | 0.15 |
| 10 | 10, 12, 13, 14, 15, 16, 18, 20 | 0.2 |
| 12 | 12, 13, 14, 15, 16, 18, 20 | 0.3 |
| 15 | 15, 16, 18, 20, 21, 22 | 0.5 |
| 16 | 18, 20, 21, 22, 24 | 1.0 |
| 17 | 20, 21, 22, 24, 28 | |
| 20 | 20, 21, 22, 24, 28, 30, 32 | |
| 22 | 24, 28, 30, 32, 35, 40 | |
| 25 | 28, 30, 32, 35, 40 | |
| 28 | 30, 32, 35, 40, 42 | |
| 30 | 32, 35, 40, 42, 45 | |
| 35 | 35, 40, 42, 45, 50 | |
| 40 | 42, 45, 50, 55 | |
| 45 | 45, 50, 55 | |

Brass, Low Carbon Steel

| Part Number | D | T |
|-------------|----------------------------|----------------|
| 2 | 4, 5, 6 | (0.05) |
| 3 | 5, 6, 7, 8, 10 | For CIMRB only |
| 4 | 6, 7, 8, 10, 12 | 0.1 |
| 5 | 7, 8, 10, 12, 14, 16 | 0.2 |
| 6 | 8, 10, 12, 14, 16 | 0.3 |
| 8 | 12, 14, 16, 18, 20 | 0.5 |
| 10 | 12, 14, 16, 18, 20 | 1.0 |
| 12 | 16, 18, 20, 21, 22 | |
| 15 | 18, 20, 21, 22, 24 | |
| 16 | 20, 21, 22, 24, 28 | |
| 17 | 20, 21, 22, 24, 28, 30, 32 | |
| 20 | 24, 28, 30, 32, 35, 40 | |
| 22 | 28, 30, 32, 35, 40 | |
| 25 | 30, 32, 35, 40, 42 | |
| 28 | 32, 35, 40, 42, 45 | |
| 30 | 35, 40, 42, 45, 50 | |
| 35 | 42, 45, 50, 55 | |
| 40 | 45, 50, 55 | |
| 45 | 50, 55 | |

Part Number Example: CIMRS5 - 12 - 0.1



Shim Rings Package

Standard Type

Washers / Collars / Shims

Shim Rings Package - Standard (30/pcs.)

| Standard | Configurable | Material | Hardness | Tolerances by Thickness | | | | | | | | | |
|----------|--------------|-----------------------------|-----------------|-------------------------|--------|--------|--------|-------|--------|-------|-------|-----|-----|
| | | | | 0.01 | 0.02 | 0.03 | 0.05 | 0.1 | 0.15 | 0.2 | 0.3 | 0.5 | 0.8 |
| PCIMRS | CIMRSF | 304H Stainless Steel | 370-430 HV min. | ±0.003 | ±0.005 | ±0.02 | ±0.025 | ±0.03 | ±0.035 | ±0.04 | ±0.05 | — | — |
| PCIMRB | CIMRBF | C28000 Brass | — | — | — | ±0.005 | ±0.02 | ±0.03 | ±0.04 | ±0.05 | ±0.08 | — | — |
| PCIMR | CIMRF | Low Carbon Steel Equivalent | — | — | — | — | ±0.03 | ±0.03 | ±0.04 | ±0.06 | ±0.11 | — | — |

304H Stainless Steel

| Part Number | D Selection | T |
|-------------|--------------------------------------|---------------------|
| 2 | 3, 4, 5, 6 | 0.01 |
| 3 | 4, 5, 6, 7, 8, 9, 10 | (0.02) |
| 4 | 5, 6, 7, 8, 9, 10, 12, 13 | For d≤8 only (0.03) |
| 5 | 6, 7, 8, 9, 10, 12, 13, 14, 15, 16 | For d≤8 only (0.05) |
| 6 | 7, 8, 9, 10, 12, 13, 14, 15, 16, 18 | 0.1 |
| 8 | 8, 9, 10, 12, 13, 14, 15, 16, 18, 20 | 0.15 |
| 10 | 10, 12, 13, 14, 15, 16, 18, 20 | 0.2 |
| 12 | 12, 13, 14, 15, 16, 18, 20 | 0.3 |
| 15 | 15, 16, 18, 20, 21, 22 | 0.5 |
| 16 | 18, 20, 21, 22, 24 | 1.0 |
| 17 | 20, 21, 22, 24, 28 | |
| 20 | 20, 21, 22, 24, 28, 30, 32 | |
| 22 | 24, 28, 30, 32, 35, 40 | |
| 25 | 28, 30, 32, 35, 40 | |
| 30 | 30, 32, 35, 40, 42 | |
| 35 | 32, 35, 40, 42, 45 | |
| 40 | 35, 40, 42, 45, 50 | |
| 45 | 42, 45, 50, 55 | |

Brass, Low Carbon Steel

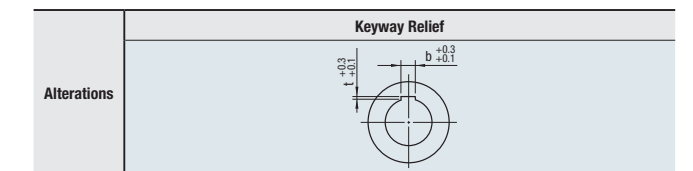
| Part Number | D Selection | T |
|-------------|--------------------|-----------------|
| 3 | 5, 6, 8, 10 | (0.05) |
| 4 | 6, 8, 10, 12 | For PCIMRB Only |
| 5 | 8, 10, 12, 14 | 0.1 |
| 6 | 10, 12, 14, 16 | 0.2 |
| 8 | 12, 14, 16 | 0.3 |
| 10 | 14, 16, 18, 20 | 0.5 |
| 12 | 16, 18, 20, 21, 22 | 1.0 |

Part Number Example: PCIMRS - 12 - 0.1
 Part Number Alterations: CIMRF - D73 - V43 - T1.0

Part Number Alterations: CIMRSF - D22 - V18 - T0.1 - KC

Configurable

| Part Number | D 0.5 mm Increment | V Select V0, 2.0, 2.6, or V3.0-248.0 in 0.5 mm increments | T |
|-------------|--------------------|---|----------------------------------|
| CIMRSF | 4.0-250 | 0 (No Hole) | (0.05) |
| CIMRBF | | 2.0 | For CIMRBF and CIMRSF Only (0.8) |
| CIMRF | | 2.3 | (0.15) |
| | | 3.0-248.0 | For CIMRSF Only |
| | | T≤0.2 → V≤D-2 | 0.1 |
| | | 0.3≤T → V≤D-3 | 0.2 |
| | | (V2.6 → D≥5) | 0.3 |
| | | | 0.5 |
| | | | 1.0 |



| Code | KC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|--|-----|------------|---|-----|--------|---|-----|-----------|---------|---|-----|-----------|---------|---|-----|------------|---------|---|-----|------------|---------|---|-----|------------|---------|----|-----|------------|---------|----|-----|------------|---------|----|-----|------------|
| Spec. | <table border="1"> <tr> <th>V</th> <th>b</th> <th>t</th> <th>D-V</th> </tr> <tr> <td>8-10.5</td> <td>3</td> <td>2.0</td> <td>7 or More</td> </tr> <tr> <td>11-12.5</td> <td>4</td> <td>2.5</td> <td>8 or More</td> </tr> <tr> <td>13-17.5</td> <td>5</td> <td>3.0</td> <td>10 or More</td> </tr> <tr> <td>18-22.5</td> <td>6</td> <td>3.5</td> <td>12 or More</td> </tr> <tr> <td>23-30.5</td> <td>8</td> <td>4.0</td> <td>14 or More</td> </tr> <tr> <td>31-38.5</td> <td>10</td> <td>4.0</td> <td>14 or More</td> </tr> <tr> <td>39-42.5</td> <td>12</td> <td>4.0</td> <td>14 or More</td> </tr> <tr> <td>43-49.5</td> <td>14</td> <td>4.5</td> <td>16 or More</td> </tr> </table> | V | b | t | D-V | 8-10.5 | 3 | 2.0 | 7 or More | 11-12.5 | 4 | 2.5 | 8 or More | 13-17.5 | 5 | 3.0 | 10 or More | 18-22.5 | 6 | 3.5 | 12 or More | 23-30.5 | 8 | 4.0 | 14 or More | 31-38.5 | 10 | 4.0 | 14 or More | 39-42.5 | 12 | 4.0 | 14 or More | 43-49.5 | 14 | 4.5 | 16 or More |
| V | b | t | D-V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8-10.5 | 3 | 2.0 | 7 or More | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11-12.5 | 4 | 2.5 | 8 or More | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13-17.5 | 5 | 3.0 | 10 or More | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18-22.5 | 6 | 3.5 | 12 or More | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23-30.5 | 8 | 4.0 | 14 or More | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31-38.5 | 10 | 4.0 | 14 or More | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 39-42.5 | 12 | 4.0 | 14 or More | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 43-49.5 | 14 | 4.5 | 16 or More | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |