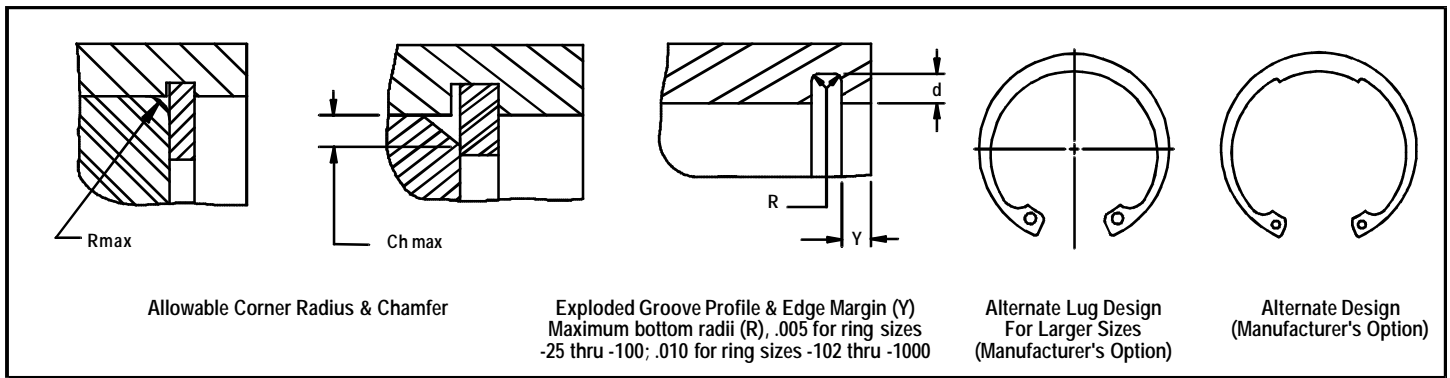


| RING NO. | HOUSING | | | GROOVE SIZE | | | RING SIZE & WEIGHT | | | | CLEAR. DIA. | | | i THRUST LD. (lbs.) | | | | |
|----------|----------|---------|-------|-------------|-------|-------|--------------------|-------|--------|---------------|-------------|--------------|-------|----------------------|-----------------------|--------------------|-------------------------|---------------------------|
| | DIAMETER | | | DIAMETER | | WIDTH | | DEPTH | | Free Diameter | | Thickness*** | | Weight Per 1000 Pcs. | Compressed in housing | Released in groove | Ring Safety Factor of 4 | Groove Safety Factor of 2 |
| | Dh DEC | Dh FRAC | Dh mm | Dg | Tol. | W | Tol. | d | Df | Tol. | T | Tol. | | | | | | |
| HO-354 | 3.543 | - | 90.0 | 3.755 | | .120 | | .106 | 3.936 | | .109 | | 72.0 | 2.83 | 3.04 | 55419 | 31800 | |
| HO-354 | 3.562 | 3-9/16 | 90.5 | 3.776 | | .120 | | .107 | 3.936 | ±.055 | .109 | | 72.0 | 2.85 | 3.06 | 55419 | 31800 | |
| HO-362 | 3.625 | 3-5/8 | 92.1 | 3.841 | | .120 | | .108 | 4.024 | | .109 | | 73.0 | 2.91 | 3.12 | 56739 | 33200 | |
| HO-375 | 3.740 | - | 95.0 | 3.964 | ±.006 | .120 | + .005 | .112 | 4.157 | | .109 | | 78.0 | 3.02 | 3.24 | 58566 | 35600 | |
| HO-375 | 3.750 | 3-3/4 | 95.2 | 3.974 | .006* | .120 | - .000 | .112 | 4.157 | | .109 | | 78.0 | 3.03 | 3.25 | 58566 | 35600 | |
| HO-387 | 3.875 | 3-7/8 | 98.4 | 4.107 | | .120 | | .116 | 4.291 | | .109 | | 87.0 | 3.11 | 3.34 | 60494 | 38000 | |
| HO-393 | 3.938 | 3-15/16 | 100.0 | 4.174 | | .120 | | .118 | 4.358 | | .109 | | 88.0 | 3.17 | 3.40 | 61611 | 39300 | |
| HO-400 | 4.000 | 4 | 101.6 | 4.240 | | .120 | | .120 | 4.424 | | .109 | ±.003 | 93.0 | 3.23 | 3.47 | 62626 | 40700 | |
| HO-412 | 4.125 | 4-1/8 | 104.8 | 4.365 | | .120 | | .120 | 4.558 | | .109 | | 97.0 | 3.36 | 3.60 | 64554 | 42000 | |
| HO-425 | 4.250 | 4-1/4 | 108.0 | 4.490 | | .120 | | .120 | 4.691 | | .109 | | 101.0 | 3.48 | 3.72 | 66483 | 43200 | |
| HO-433 | 4.331 | - | 110.0 | 4.571 | | .120 | | .120 | 4.756 | | .109 | | 105.0 | 3.50 | 3.74 | 67599 | 44500 | |
| HO-450 | 4.500 | 4-1/2 | 114.3 | 4.740 | | .120 | | .120 | 4.940 | | .109 | | 111.0 | 3.66 | 3.90 | 70340 | 45800 | |
| HO-462 | 4.625 | 4-5/8 | 117.5 | 4.865 | | .120 | | .120 | 5.076 | | .109 | | 117.0 | 3.79 | 4.03 | 72370 | 47000 | |
| HO-475 | 4.724 | - | 120.0 | 4.969 | | .120 | | .122 | 5.213 | ±.065 | .109 | | 124.0 | 3.88 | 4.12 | 74298 | 49000 | |
| HO-475 | 4.750 | 4-3/4 | 120.6 | 4.995 | | .120 | | .122 | 5.213 | | .109 | | 124.0 | 3.90 | 4.14 | 74298 | 49000 | |
| HO-500 | 5.000 | 5 | 127.0 | 5.260 | | .120 | | .130 | 5.485 | | .109 | | 136.0 | 4.08 | 4.34 | 78155 | 55000 | |
| HO-525 | 5.250 | 5-1/4 | 133.3 | 5.520 | | .139 | | .135 | 5.770 | | .125 | | 174.0 | 4.31 | 4.58 | 94091 | 60000 | |
| HO-537 | 5.375 | 5-3/8 | 136.5 | 5.650 | ±.007 | .139 | + .006 | .135 | 5.910 | | .125 | ±.004 | 179.0 | 4.41 | 4.68 | 96324 | 61500 | |
| HO-550 | 5.500 | 5-1/2 | 139.7 | 5.770 | .006* | .139 | - .000 | .135 | 6.066 | | .125 | | 183.0 | 4.53 | 4.80 | 98658 | 63300 | |
| HO-575 | 5.750 | 5-3/4 | 146.0 | 6.020 | | .139 | | .135 | 6.336 | | .125 | | 192.0 | 4.78 | 5.05 | 103124 | 65900 | |
| HO-600 | 6.000 | 6 | 152.4 | 6.270 | | .139 | | .135 | 6.620 | | .125 | | 202.1 | 5.03 | 5.30 | 107489 | 68600 | |
| HO-625 | 6.250 | 6-1/4 | 158.7 | 6.530 | | .174 | | .140 | 6.895 | | .156 | | 266.0 | 5.24 | 5.52 | 139766 | 74100 | |
| HO-650 | 6.500 | 6-1/2 | 165.1 | 6.790 | | .174 | | .145 | 7.170 | | .156 | | 281.0 | 5.49 | 5.78 | 145450 | 79900 | |
| HO-662 | 6.625 | 6-5/8 | 168.3 | 6.925 | | .174 | | .150 | 7.308 | ±.080 | .156 | | 305.0 | 5.60 | 5.90 | 148190 | 84200 | |
| HO-675 | 6.750 | 6-3/4 | 171.4 | 7.055 | ±.008 | .174 | + .008 | .152 | 7.445 | | .156 | | 325.0 | 5.65 | 5.95 | 151032 | 87000 | |
| HO-700 | 7.000 | 7 | 177.8 | 7.315 | .006* | .174 | - .000 | .157 | 7.720 | | .156 | | 344.0 | 5.88 | 6.19 | 156615 | 93100 | |
| HO-725 | 7.250 | 7-1/4 | 184.1 | 7.575 | | .209 | | .162 | 7.995 | | .187 | | 428.0 | 6.08 | 6.40 | 194373 | 99600 | |
| HO-750 | 7.500 | 7-1/2 | 190.5 | 7.840 | | .209 | | .170 | 8.270 | | .187 | | 485.0 | 6.33 | 6.67 | 201173 | 108100 | |
| HO-775 | 7.750 | 7-3/4 | 196.8 | 8.100 | | .209 | | .175 | 8.545 | | .187 | | 520.0 | 6.58 | 6.93 | 207872 | 115000 | |
| HO-800 | 8.000 | 8 | 203.2 | 8.360 | | .209 | | .180 | 8.820 | | .187 | | 555.0 | 6.75 | 7.11 | 214571 | 122000 | |
| HO-825 | 8.250 | 8-1/4 | 209.5 | 8.620 | | .209 | | .185 | 9.095 | ±.090 | .187 | ±.005 | 603.0 | 7.00 | 7.37 | 221270 | 129300 | |
| HO-850 | 8.500 | 8-1/2 | 215.9 | 8.880 | | .209 | | .190 | 9.285 | | .187 | | 634.0 | 7.13 | 7.51 | 227969 | 136900 | |
| HO-875 | 8.750 | 8-3/4 | 222.2 | 9.145 | | .209 | | .197 | 9.558 | | .187 | | 653.0 | 7.38 | 7.77 | 233856 | 145500 | |
| HO-900 | 9.000 | 9 | 228.6 | 9.405 | | .209 | | .202 | 9.830 | | .187 | | 732.0 | 7.63 | 8.03 | 241367 | 154100 | |
| HO-925 | 9.250 | 9-1/4 | 235.0 | 9.668 | | .209 | | .209 | 10.102 | | .187 | | 767.0 | 7.88 | 8.30 | 248066 | 163600 | |
| HO-950 | 9.500 | 9-1/2 | 241.3 | 9.930 | | .209 | | .215 | 10.375 | | .187 | | 803.0 | 7.98 | 8.41 | 254765 | 173100 | |
| HO-975 | 9.750 | 9-3/4 | 247.7 | 10.190 | | .209 | | .220 | 10.648 | | .187 | | 833.0 | 8.23 | 8.67 | 261464 | 181900 | |
| HO-1000 | 10.000 | 10 | 254.0 | 10.450 | | .209 | | .225 | 10.920 | | .187 | | 863.0 | 8.48 | 8.93 | 268163 | 190700 | |

* F.I.M. (FULL INDICATOR MOVEMENT)- MAXIMUM ALLOWABLE DEVIATION OF CONCENTRICITY BETWEEN GROOVE & HOUSING.
i BASED ON HOUSINGS/SHAFTS MADE OF COLD ROLLED STEEL. FOR AN EXPLANATION OF FORMULAS USED TO DERIVE THRUST LOAD AND OTHER PERFORMANCE DATA CONTACT THE ROTOR CLIP ENGINEERING DEPARTMENT.
***FOR PLATED RINGS ADD .002" TO THE LISTED MAXIMUM THICKNESS. MAXIMUM THICKNESS WILL BE A MINIMUM OF .0002" LESS THAN THE LISTED GROOVE WIDTH (W) MINIMUM.

For a technical concern,
Please ask for our Technical Sales Department.

1-800-55-ROTOR



| RING NO. | LUG HEIGHT | | MAXIMUM SECTION | | MINIMUM SECTION | | HOLE DIAMETER | | GAP WIDTH Ring in Groove | EDGE MARGIN | ALLOWABLE CORNER RADII & CHAMFERS | | MAX. LOAD w/R max or Ch max. (lbs.) |
|----------|------------|-------|-----------------|-------|-----------------|-------|---------------|--------|--------------------------|-------------|-----------------------------------|------|-------------------------------------|
| | H | Tol. | S max | Tol. | S min | Tol. | R | Tol. | | | G min | Y | |
| HO-354 | .342 | | .292 | | .142 | | .125 | | .788 | .318 | .110 | .088 | 12000 |
| HO-354 | .342 | | .292 | | .142 | | .125 | | .842 | .321 | .110 | .088 | 12000 |
| HO-362 | .342 | | .299 | | .150 | ±.008 | .125 | | .833 | .324 | .116 | .093 | 12000 |
| HO-375 | .342 | | .309 | | .155 | | .125 | | .844 | .336 | .120 | .096 | 12000 |
| HO-375 | .342 | | .309 | ±.008 | .155 | | .125 | +0.015 | .871 | .336 | .120 | .096 | 12000 |
| HO-387 | .370 | | .319 | | .160 | | .125 | -0.002 | .891 | .348 | .123 | .098 | 12000 |
| HO-393 | .370 | | .324 | | .161 | | .125 | | .905 | .354 | .124 | .099 | 12000 |
| HO-400 | .370 | | .330 | | .166 | | .125 | | .918 | .360 | .128 | .102 | 12000 |
| HO-412 | .370 | ±.008 | .330 | | .171 | | .125 | | .940 | .360 | .130 | .104 | 12000 |
| HO-425 | .370 | | .335 | | .180 | | .125 | | .960 | .360 | .138 | .110 | 12000 |
| HO-433 | .405 | | .343 | | .180 | | .156 | | 1.000 | .360 | .142 | .114 | 12000 |
| HO-450 | .405 | | .351 | | .181 | | .156 | | .980 | .360 | .146 | .117 | 12000 |
| HO-462 | .405 | | .360 | | .183 | | .156 | | 1.000 | .360 | .151 | .121 | 12000 |
| HO-475 | .405 | | .370 | | .183 | | .156 | | .960 | .366 | .154 | .123 | 12000 |
| HO-475 | .405 | | .370 | | .183 | | .156 | | 1.030 | .366 | .154 | .123 | 12000 |
| HO-500 | .435 | | .390 | | .186 | ±.009 | .156 | | .970 | .390 | .158 | .126 | 12000 |
| HO-525 | .435 | | .435 | | .198 | | .156 | | 1.10 | .405 | .168 | .134 | 15000 |
| HO-537 | .455 | | .408 | ±.009 | .198 | | .156 | | 1.12 | .405 | .168 | .134 | 15000 |
| HO-550 | .435 | | .435 | | .198 | | .156 | | 1.09 | .405 | .168 | .134 | 15000 |
| HO-575 | .455 | | .408 | | .198 | | .156 | | 1.11 | .405 | .168 | .134 | 15000 |
| HO-600 | .435 | | .435 | | .198 | | .156 | | 1.13 | .405 | .168 | .134 | 15000 |
| HO-625 | .485 | | .485 | | .211 | | .187 | | 1.16 | .420 | .177 | .142 | 23000 |
| HO-650 | .485 | | .438 | | .219 | | .187 | | 1.25 | .435 | .181 | .145 | 23000 |
| HO-662 | .485 | | .485 | | .221 | | .187 | +0.020 | 1.28 | .450 | .183 | .146 | 23000 |
| HO-675 | .530 | | .456 | | .224 | | .187 | -0.005 | 1.21 | .456 | .188 | .150 | 23000 |
| HO-700 | .515 | | .515 | | .232 | | .187 | | 1.26 | .471 | .196 | .157 | 23000 |
| HO-725 | .545 | ±.010 | .545 | | .238 | | .187 | | 1.32 | .486 | .202 | .162 | 34000 |
| HO-750 | .560 | | .507 | | .247 | | .187 | | 1.39 | .510 | .208 | .166 | 34000 |
| HO-775 | .560 | | .523 | | .255 | | .187 | | 1.44 | .525 | .214 | .171 | 34000 |
| HO-800 | .600 | | .540 | | .262 | | .187 | | 1.50 | .540 | .220 | .176 | 34000 |
| HO-825 | .600 | | .558 | | .270 | ±.010 | .187 | | 1.53 | .555 | .229 | .183 | 34000 |
| HO-850 | .660 | | .573 | | .277 | | .187 | | 1.71 | .570 | .235 | .188 | 34000 |
| HO-875 | .660 | | .591 | ±.010 | .286 | | .187 | | 1.77 | .591 | .241 | .193 | 34000 |
| HO-900 | .660 | | .609 | | .294 | | .187 | | 1.83 | .606 | .249 | .199 | 34000 |
| HO-925 | .660 | | .625 | | .299 | | .187 | | 1.87 | .627 | .253 | .202 | 34000 |
| HO-950 | .735 | | .642 | | .304 | | .187 | | 1.91 | .645 | .258 | .206 | 34000 |
| HO-975 | .735 | | .658 | | .309 | | .187 | | 2.00 | .660 | .263 | .210 | 34000 |
| HO-1000 | .735 | | .675 | | .315 | | .187 | | 2.01 | .675 | .270 | .216 | 34000 |

LARGER SIZES MAY BE AVAILABLE UPON REQUEST.

TABLE 1: HARDNESS RANGES-ROTOR CLIP STAINLESS STEEL RINGS (PH 15-7 MO)

| RING | SIZE RANGE | SCALE | ROCKWELL HARDNESS |
|------|------------|-------|-------------------|
| HO | 25&31 | 15N | 82.5-86 |
| | 37-102 | 30N | 63-69.5 |
| | 106& over | C | 44-51 |

TABLE 2: HARDNESS RANGES-ROTOR CLIP BERYLLIUM COPPER RINGS

| RING | SIZE RANGE | SCALE | ROCKWELL HARDNESS |
|------|------------|-------|-------------------|
| HO | 25&31 | 15N | 77-82 |
| | 37-102 | 30N | 54-62 |
| | 106& over | C | 34-43 |

TABLE 3: HARDNESS RANGES-ROTOR CLIP CARBON STEEL RINGS (SAE 1060-1090)

| RING | SIZE RANGE | SCALE | ROCKWELL HARDNESS |
|------|------------|-------|-------------------|
| HO | 25&31 | 15N | 86-88 |
| | 37-51 | 30N | 69.5-73 |
| | 56-77 | 30N | 67.5-72 |
| | 81-102 | 30N | 66-71 |
| | 106-347 | C | 47-52 |
| | 350-700 | C | 44-51 |
| | 725-1000 | C | 40-47 |