

AXIALLY INSTALLED

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INTERNAL – BASIC

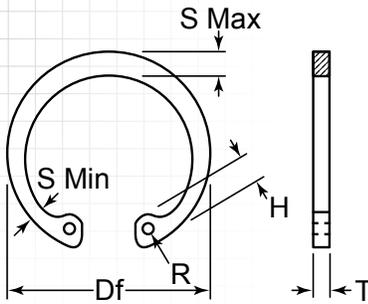


DESCRIPTION

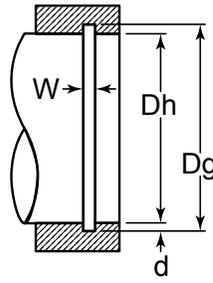
Once installed in the groove of a housing/bore, the portion of the ring protruding from the groove (also called a shoulder) holds an assembly in place.

HOW TO IDENTIFY

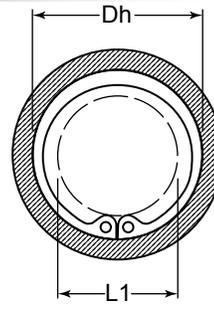
1. Verify internal design and appearance.
2. Measure the housing diameter (Dh).
3. Measure the ring cross section maximum (S Max).
4. Measure the ring cross section minimum (S Min).
5. Measure the ring thickness (T).
6. Find the part in the chart.



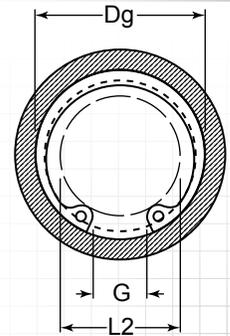
Ring Dimensions



Groove Dimensions



Clearance Diameter Compressed in Housing



Clearance Diameter & Gap Width Released in Groove

| Item # | Housing Diameter | | Groove Size | | | | Ring Size & Weight | | | | | Clearance Diameter | |
|--------|------------------|--------|-------------------|----------------|----------------|---------------|--------------------|------------------------|--------|-----------------------|-----------------------|--------------------|-------|
| | Diameter | | Width | | Depth | Free Diameter | | Thickness ² | | Weight Per 1,000 pcs. | Compressed in Housing | Released in Groove | |
| | Dh | Dg | Tol. | W | Tol. | d | Df | Tol. | T | | | | Tol. |
| HO-025 | .250" (1/4) | .268" | ±.001" | .020" | +0.002/-0.000" | .009" | .280" | +0.010/-0.005 | .015" | ±.002" | .08 | .115" | .133" |
| HO-031 | .312" (5/16) | .330" | .0015"*** | .020" | +0.002/-0.000" | .009" | .346" | +0.010/-0.005 | .015" | ±.002" | .11 | .173" | .191" |
| HO-037 | .375" (3/8) | .397" | ±.002 .002*** | .029" | +0.003/-0.000" | .011" | .415" | +0.010/-0.005 | .025" | ±.002" | .25 | .204" | .226" |
| HO-043 | .438" (7/16) | .461" | | .029" | +0.003/-0.000" | .012" | .482" | +0.010/-0.005 | .025" | ±.002" | .37 | .230" | .254" |
| HO-045 | .453" (29/64) | .477" | ±.002" .004*** | .029" | +0.003/-0.000" | .012" | .498" | +0.010/-0.005 | .025" | ±.002" | .43 | .250" | .274" |
| HO-050 | .500" (1/2) | .530" | | .039" | +0.003/-0.000" | .015" | .548" | +0.010/-0.005 | .035" | ±.002" | .70 | .260" | .290" |
| HO-051 | .512" | .542" | | .039" | +0.003/-0.000" | .015" | .560" | +0.010/-0.005 | .035" | ±.002" | .77 | .270" | .300" |
| HO-056 | .562" (9/16) | .596" | | .039" | +0.003/-0.000" | .017" | .620" | +0.010/-0.005 | .035" | ±.002" | .86 | .275" | .305" |
| HO-062 | .625" (5/8) | .665" | | .039" | +0.003/-0.000" | .020" | .694" | +0.010/-0.005 | .035" | ±.002" | 1.00 | .340" | .380" |
| HO-068 | .688" (11/16) | .732" | | .039" | +0.003/-0.000" | .022" | .763" | +0.010/-0.005 | .035" | ±.002" | 1.20 | .400" | .440" |
| HO-075 | .750" (3/4) | .796" | | .039" | +0.003/-0.000" | .023" | .831" | +0.010/-0.005 | .035" | ±.002" | 1.30 | .450" | .490" |
| HO-077 | .777" | .825" | | .046" | +0.003/-0.000" | .024" | .859" | +0.010/-0.005 | .042" | ±.002" | 1.70 | .475" | .520" |
| HO-081 | .812" (13/16) | .862" | | .046" | +0.003/-0.000" | .025" | .901" | +0.015/-0.010" | .042" | ±.002" | 1.90 | .490" | .540" |
| HO-086 | .866" | .920" | | .046" | +0.003/-0.000" | .027" | .961" | +0.015/-0.010" | .042" | ±.002" | 2.00 | .540" | .590" |
| HO-087 | .875" (7/8) | .931" | ±.003" .004*** | .046" | +0.003/-0.000" | .028" | .971" | +0.015/-0.010" | .042" | ±.002" | 2.10 | .545" | .600" |
| HO-090 | .901" | .959" | | .046" | +0.003/-0.000" | .029" | 1.000" | +0.015/-0.010" | .042" | ±.002" | 2.20 | .565" | .620" |
| HO-093 | .938" (15/16) | 1.000" | | .046" | +0.003/-0.000" | .031" | 1.041" | +0.015/-0.010" | .042" | ±.002" | 2.40 | .610" | .670" |
| HO-100 | 1.000" (1) | 1.066" | | .046" | +0.003/-0.000" | .033" | 1.111" | +0.015/-0.010" | .042" | ±.002" | 2.70 | .665" | .730" |
| HO-102 | 1.023" | 1.091" | .046" | +0.003/-0.000" | .034" | 1.136" | +0.015/-0.010" | .042" | ±.002" | 2.80 | .690" | .755" | |

TO ORDER DIFFERENT MATERIAL/FINISHES, APPEND SUFFIX WITH YOUR CHOICE:
"NONE" • -BC • -66 • -ZD • -Z3

Additional attribute data on adjacent page. ▶



INSTALLATION TOOLS AVAILABLE, SEE PAGE 248



FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.
Prices, materials, dimensions, tolerances, designs, and grades subject to change without notice. © 2022 Huyett

INTERNAL - BASIC

SUFFIX MATERIAL/FINISH

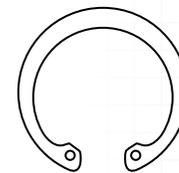
- ### = CARBON SPRING STEEL, PHOSPHATE
- ###-BC = BERYLLIUM COPPER, PLAIN
- ###-SS = PH 15-7 MO STAINLESS STEEL, PLAIN
- ###-ZD = CARBON SPRING STEEL, ZINC YELLOW
- ###-Z3 = CARBON SPRING STEEL, ZINC TRIVALENT

Material/finish combinations may not be available in all sizes.
More finishes available, see page 22 for a complete listing.

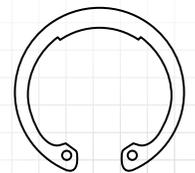


ALTERNATE DESIGNS

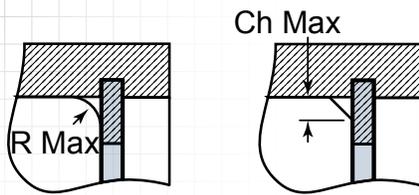
(Manufacturer's Option)



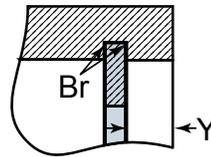
Alternate Lug Design for Larger Sizes



Alternate Design



Maximum Corner Radius (R Max) & Chamfer (Ch Max) for Retained Part



Maximum Bottom Radii (Br),
.005 for ring sizes HO-025 - HO-100;
.010 for ring sizes HO-102 - HO-1000

| Item # | Thrust Load ¹ | | Lug Height | | Maximum Section | | Minimum Section | | Hole Diameter | | Gap Width Ring In Groove | Allowable Corner Radii & Chamfers | | | Max. Load w/R Max. or Ch Max. | Edge Margin |
|--------|--------------------------|---------------------------|------------|--------|-----------------|--------|-----------------|--------|---------------|-----------------|--------------------------|-----------------------------------|--------|--------|-------------------------------|-------------|
| | Ring Safety Factor of 4 | Groove Safety Factor of 2 | | | | | | | | | | R | Tol. | G Min. | | |
| | Pr lbs. | Pg lbs. | H | Tol. | S Max. | Tol. | S Min. | Tol. | P'r lbs. | Y | | | | | | |
| HO-025 | 426 | 190 | .065" | ±.003" | .025" | ±.002" | .015" | ±.002" | .031" | | .047" | .011" | .0085" | 190 | .027" | |
| HO-031 | 538 | 240 | .066" | ±.003" | .033" | ±.002" | .018" | ±.002" | .031" | | .055" | .016" | .013" | 190 | .027" | |
| HO-037 | 1,066 | 350 | .082" | ±.003" | .040" | ±.003" | .028" | ±.003" | .041" | | .063" | .023" | .018" | 530 | .033" | |
| HO-043 | 1,238 | 440 | .098" | ±.003" | .049" | ±.003" | .029" | ±.003" | .041" | | .063" | .027" | .021" | 530 | .036" | |
| HO-045 | 1,299 | 460 | .098" | ±.003" | .050" | ±.003" | .030" | ±.003" | .047" | | .071" | .027" | .021" | 530 | .036" | |
| HO-050 | 2,010 | 510 | .114" | ±.003" | .053" | ±.004" | .035" | ±.004" | .047" | | .090" | .027" | .021" | 1,100 | .045" | |
| HO-051 | 2,060 | 520 | .114" | ±.005" | .053" | ±.004" | .035" | ±.004" | .047" | | .092" | .027" | .021" | 1,100 | .045" | |
| HO-056 | 2,253 | 710 | .132" | ±.005" | .053" | ±.004" | .035" | ±.004" | .047" | | .095" | .027" | .021" | 1,100 | .051" | |
| HO-062 | 2,507 | 1,050 | .132" | ±.005" | .060" | ±.004" | .035" | ±.004" | .062" | +010/ -.002" | .104" | .027" | .021" | 1,100 | .060" | |
| HO-068 | 2,741 | 1,280 | .132" | ±.005" | .063" | ±.004" | .036" | ±.004" | .062" | | .118" | .027" | .021" | 1,100 | .066" | |
| HO-075 | 3,045 | 1,460 | .142" | ±.005" | .070" | ±.004" | .040" | ±.004" | .062" | | .143" | .032" | .025" | 1,100 | .069" | |
| HO-077 | 4,618 | 1,580 | .146" | ±.005" | .074" | ±.005" | .044" | ±.005" | .062" | | .145" | .035" | .028" | 1,650 | .072" | |
| HO-081 | 4,872 | 1,710 | .155" | ±.005" | .077" | ±.005" | .044" | ±.005" | .062" | | .153" | .035" | .028" | 1,650 | .075" | |
| HO-086 | 5,177 | 1,980 | .155" | ±.005" | .081" | ±.005" | .045" | ±.005" | .062" | | .172" | .035" | .028" | 1,650 | .081" | |
| HO-087 | 5,227 | 2,080 | .155" | ±.005" | .084" | ±.005" | .045" | ±.005" | .062" | | .179" | .035" | .028" | 1,650 | .084" | |
| HO-090 | 5,430 | 2,200 | .155" | ±.005" | .087" | ±.005" | .047" | ±.005" | .062" | | .188" | .038" | .030" | 1,650 | .087" | |
| HO-093 | 5,684 | 2,450 | .155" | ±.005" | .091" | ±.005" | .050" | ±.005" | .062" | | .200" | .038" | .030" | 1,650 | .093" | |
| HO-100 | 6,039 | 2,800 | .155" | ±.005" | .104" | ±.005" | .052" | ±.005" | .062" | | .212" | .042" | .034" | 1,650 | .099" | |
| HO-102 | 6,141 | 3,000 | .155" | ±.005" | .106" | ±.005" | .054" | ±.005" | .062" | .220" | .042" | .034" | 1,650 | .102" | | |

◀ Additional attribute data on adjacent page.

For hardness specifications, see page 45.

** F.I.M. (Full Indicator Movement) - Maximum allowable deviation of runout between groove and housing.
¹ Based on housings/shafts made of cold rolled steel. For more information on thrust load and safety factor see pages 14 & 15.

² 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.

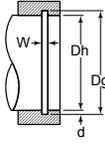
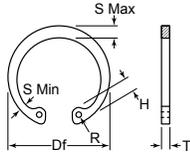
STACKED OPTIONS AVAILABLE, SEE HUYETT.COM FOR MORE DETAILS

AXIALLY INSTALLED

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INTERNAL – BASIC



HOW TO IDENTIFY

1. Verify internal design and appearance.
2. Measure the housing diameter (Dh).
3. Measure the ring cross section maximum (S Max).
4. Measure the ring cross section minimum (S Min).
5. Measure the ring thickness (T).
6. Find the part in the chart.

| Item # | Housing Diameter | | Groove Size | | | | Ring Size & Weight | | | | | Clearance Diameter | |
|--------|------------------|--------|-------------|-------|---------------|---------------|--------------------|------------------------|-------|-----------------------|-----------------------|--------------------|-------|
| | Diameter | | Width | | Depth | Free Diameter | | Thickness ² | | Weight Per 1,000 pcs. | Compressed in Housing | Released in Groove | |
| | Dh | Dg | Tol. | W | Tol. | d | Df | Tol. | T | Tol. | lbs. | L1 | L2 |
| HO-106 | 1.062" (1-1/16) | 1.130" | | .056" | +0.004/-.000" | .034" | 1.180" | +0.025/-.020" | .050" | ±.002" | 3.70 | .685" | .750" |
| HO-112 | 1.125" (1-1/8) | 1.197" | | .056" | +0.004/-.000" | .036" | 1.249" | +0.025/-.020" | .050" | ±.002" | 4.00 | .745" | .815" |
| HO-118 | 1.181" | 1.255" | | .056" | +0.004/-.000" | .037" | 1.319" | +0.025/-.020" | .050" | ±.002" | 4.30 | .790" | .860" |
| | 1.188" (1-3/16) | 1.262" | | .056" | +0.004/-.000" | .037" | 1.319" | +0.025/-.020" | .050" | ±.002" | 4.30 | .800" | .870" |
| HO-125 | 1.250" (1-1/4) | 1.330" | | .056" | +0.004/-.000" | .040" | 1.388" | +0.025/-.020" | .050" | ±.002" | 4.80 | .875" | .955" |
| | 1.259" | 1.339" | ±.004" | .056" | +0.004/-.000" | .040" | 1.388" | +0.025/-.020" | .050" | ±.002" | 4.80 | .885" | .965" |
| HO-131 | 1.312" (1-5/16) | 1.396" | .005"*** | .056" | +0.004/-.000" | .042" | 1.456" | +0.025/-.020" | .050" | ±.002" | 5.00 | .930" | 1.01" |
| HO-137 | 1.375" (1-3/8) | 1.461" | | .056" | +0.004/-.000" | .043" | 1.526" | +0.025/-.020" | .050" | ±.002" | 5.10 | .990" | 1.07" |
| | 1.378" | 1.464" | | .056" | +0.004/-.000" | .043" | 1.526" | +0.025/-.020" | .050" | ±.002" | 5.10 | .990" | 1.07" |
| HO-143 | 1.438" (1-7/16) | 1.528" | | .056" | +0.004/-.000" | .045" | 1.596" | +0.025/-.020" | .050" | ±.002" | 5.80 | 1.06" | 1.15" |
| HO-145 | 1.456" | 1.548" | | .056" | +0.004/-.000" | .046" | 1.616" | +0.025/-.020" | .050" | ±.002" | 6.40 | 1.08" | 1.17" |
| HO-150 | 1.500" (1-1/2) | 1.594" | | .056" | +0.004/-.000" | .047" | 1.660" | +0.025/-.020" | .050" | ±.002" | 6.50 | 1.12" | 1.21" |
| HO-156 | 1.562" (1-9/16) | 1.658" | | .068" | +0.004/-.000" | .048" | 1.734" | +0.035/-.025" | .062" | ±.003" | 8.90 | 1.14" | 1.23" |
| | 1.575" | 1.671" | | .068" | +0.004/-.000" | .048" | 1.734" | +0.035/-.025" | .062" | ±.003" | 8.90 | 1.15" | 1.24" |
| HO-162 | 1.625" (1-5/8) | 1.725" | | .068" | +0.004/-.000" | .050" | 1.804" | +0.035/-.025" | .062" | ±.003" | 1.00 | 1.15" | 1.25" |
| HO-165 | 1.653" | 1.755" | | .068" | +0.004/-.000" | .051" | 1.835" | +0.035/-.025" | .062" | ±.003" | 1.40 | 1.17" | 1.27" |
| HO-168 | 1.688" (1-11/16) | 1.792" | | .068" | +0.004/-.000" | .052" | 1.874" | +0.035/-.025" | .062" | ±.003" | 1.80 | 1.23" | 1.33" |
| HO-175 | 1.750" (1-3/4) | 1.858" | ±.005"*** | .068" | +0.004/-.000" | .054" | 1.942" | +0.035/-.025" | .062" | ±.003" | 1.30 | 1.26" | 1.36" |
| HO-181 | 1.812" (1-13/16) | 1.922" | | .068" | +0.004/-.000" | .055" | 2.012" | +0.035/-.025" | .062" | ±.003" | 11.50 | 1.34" | 1.38" |
| HO-185 | 1.850" | 1.962" | | .068" | +0.004/-.000" | .056" | 2.054" | +0.035/-.025" | .062" | ±.003" | 12.80 | 1.35" | 1.46" |
| HO-187 | 1.875" (1-7/8) | 1.989" | | .068" | +0.004/-.000" | .057" | 2.072" | +0.035/-.025" | .062" | ±.003" | 12.80 | 1.37" | 1.48" |
| HO-193 | 1.938" (1-15/16) | 2.056" | | .068" | +0.004/-.000" | .059" | 2.141" | +0.035/-.025" | .062" | ±.003" | 13.30 | 1.46" | 1.58" |
| HO-200 | 2.000" (2) | 2.122" | | .068" | +0.004/-.000" | .061" | 2.210" | +0.035/-.025" | .062" | ±.003" | 14.00 | 1.52" | 1.64" |
| HO-206 | 2.047" | 2.171" | | .086" | +0.005/-.000" | .062" | 2.280" | +0.040/-.030" | .078" | ±.003" | 18.00 | 1.52" | 1.64" |
| | 2.062" (2-1/16) | 2.186" | | .086" | +0.005/-.000" | .062" | 2.280" | +0.040/-.030" | .078" | ±.003" | 18.00 | 1.54" | 1.66" |
| HO-212 | 2.125" (2-1/8) | 2.251" | | .086" | +0.005/-.000" | .063" | 2.350" | +0.040/-.030" | .078" | ±.003" | 19.40 | 1.58" | 1.7" |
| HO-218 | 2.165" | 2.295" | | .086" | +0.005/-.000" | .065" | 2.415" | +0.040/-.030" | .078" | ±.003" | 19.60 | 1.63" | 1.75" |
| | 2.188" (2-3/16) | 2.318" | | .086" | +0.005/-.000" | .065" | 2.415" | +0.040/-.030" | .078" | ±.003" | 19.60 | 1.66" | 1.79" |
| HO-225 | 2.250" (2-1/4) | 2.382" | ±.006"*** | .086" | +0.005/-.000" | .066" | 2.490" | +0.040/-.030" | .078" | ±.003" | 21.80 | 1.67" | 1.8" |
| HO-231 | 2.312" (2-5/16) | 2.450" | .006"*** | .086" | +0.005/-.000" | .069" | 2.560" | +0.040/-.030" | .078" | ±.003" | 22.60 | 1.73" | 1.93" |
| HO-237 | 2.375" (2-3/8) | 2.517" | | .086" | +0.005/-.000" | .071" | 2.630" | +0.040/-.030" | .078" | ±.003" | 23.20 | 1.79" | 1.86" |
| HO-244 | 2.440" (2-7/16) | 2.584" | | .086" | +0.005/-.000" | .072" | 2.702" | +0.040/-.030" | .078" | ±.003" | 25.40 | 1.86" | 2.00" |
| HO-250 | 2.500" (2-1/2) | 2.648" | | .086" | +0.005/-.000" | .074" | 2.775" | +0.040/-.030" | .078" | ±.003" | 25.50 | 1.91" | 2.05" |
| | 2.531" (2-17/32) | 2.681" | | .086" | +0.005/-.000" | .075" | 2.775" | +0.040/-.030" | .078" | ±.003" | 25.50 | 1.94" | 2.09" |
| HO-256 | 2.562" (2-9/16) | 2.714" | | .103" | +0.005/-.000" | .076" | 2.844" | +0.040/-.030" | .093" | ±.003" | 34.00 | 1.93" | 2.08" |

Additional attribute data on adjacent page. ▶

TO ORDER DIFFERENT MATERIAL/FINISHES,
APPEND SUFFIX WITH YOUR CHOICE:
"NONE" • -BC • -66 • -ZD • -Z3

INTERNAL - BASIC



SUFFIX MATERIAL/FINISH

- ### = CARBON SPRING STEEL, PHOSPHATE
- ###-BC = BERYLLIUM COPPER, PLAIN
- ###-SS = PH 15-7 MO STAINLESS STEEL, PLAIN
- ###-ZD = CARBON SPRING STEEL, ZINC YELLOW
- ###-Z3 = CARBON SPRING STEEL, ZINC TRIVALENT

Material/finish combinations may not be available in all sizes.
More finishes available, see page 22 for a complete listing.

| Item # | Thrust Load ¹ Square Corner Abutment | | Lug Height | | Maximum Section | | Minimum Section | | Hole Diameter | | Gap Width Ring In Groove | Allowable Corner Radii & Chamfers | | | Max. Load w/R Max. or Ch Max. | Edge Margin | | |
|--------|--|---------------------------|------------|--------|-----------------|--------|-----------------|--------|---------------|------------------|--------------------------|-----------------------------------|--------|---------|-------------------------------|-------------|----------|---|
| | Ring Safety Factor of 4 | Groove Safety Factor of 2 | H | Tol. | S Max. | Tol. | S Min. | Tol. | R | Tol. | | G Min. | R Max. | Ch Max. | | | P'r lbs. | Y |
| | | | | | | | | | | | | | | | | | | |
| HO-106 | 7,562 | 3,050 | .180" | ±.005" | .110" | ±.006" | .055" | ±.006" | .078" | | .213" | .044" | .035" | 2,400 | .102" | | | |
| HO-112 | 8,019 | 3,400 | .180" | ±.005" | .116" | ±.006" | .057" | ±.006" | .078" | | .232" | .047" | .036" | 2,400 | .108" | | | |
| HO-118 | 8,526 | 3,700 | .180" | ±.005" | .120" | ±.006" | .058" | ±.006" | .078" | | .226" | .047" | .036" | 2,400 | .111" | | | |
| | 8,526 | 3,700 | .180" | ±.005" | .120" | ±.006" | .058" | ±.006" | .078" | | .245" | .047" | .036" | 2,400 | .111" | | | |
| HO-125 | 8,932 | 4,250 | .180" | ±.005" | .124" | ±.006" | .062" | ±.006" | .078" | | .265" | .048" | .038" | 2,400 | .120" | | | |
| | 8,932 | 4,250 | .180" | ±.005" | .124" | ±.006" | .062" | ±.006" | .078" | | .290" | .048" | .038" | 2,400 | .120" | | | |
| HO-131 | 9,440 | 4,700 | .180" | ±.005" | .130" | ±.006" | .062" | ±.006" | .078" | | .284" | .048" | .038" | 2,400 | .126" | | | |
| HO-137 | 9,846 | 5,050 | .180" | ±.005" | .130" | ±.006" | .063" | ±.006" | .078" | | .297" | .048" | .038" | 2,400 | .129" | | | |
| | 9,846 | 5,050 | .180" | ±.005" | .130" | ±.006" | .063" | ±.006" | .078" | | .305" | .048" | .038" | 2,400 | .129" | | | |
| HO-143 | 10,353 | 5,500 | .180" | ±.005" | .133" | ±.006" | .065" | ±.006" | .078" | | .313" | .048" | .038" | 2,400 | .135" | | | |
| HO-145 | 10,455 | 5,700 | .180" | ±.005" | .133" | ±.006" | .065" | ±.006" | .078" | | .320" | .048" | .038" | 2,400 | .138" | | | |
| HO-150 | 10,708 | 6,000 | .180" | ±.005" | .133" | ±.006" | .066" | ±.006" | .078" | | .340" | .048" | .038" | 2,400 | .141" | | | |
| HO-156 | 13,906 | 6,350 | .202" | ±.005" | .157" | ±.007" | .078" | ±.007" | .078" | | .338" | .064" | .050" | 3,900 | .144" | | | |
| | 13,906 | 6,350 | .202" | ±.005" | .157" | ±.007" | .078" | ±.007" | .078" | | .374" | .064" | .050" | 3,900 | .144" | | | |
| HO-162 | 14,413 | 6,900 | .227" | ±.005" | .164" | ±.007" | .082" | ±.007" | .078" | | .339" | .064" | .050" | 3,900 | .150" | | | |
| HO-165 | 14,718 | 7,200 | .234" | ±.005" | .167" | ±.007" | .083" | ±.007" | .078" | | .348" | .064" | .050" | 3,900 | .153" | | | |
| HO-168 | 15,022 | 7,450 | .234" | ±.005" | .170" | ±.007" | .085" | ±.007" | .078" | | .357" | .064" | .050" | 3,900 | .156" | | | |
| HO-175 | 15,580 | 8,050 | .234" | ±.005" | .170" | ±.007" | .083" | ±.007" | .078" | +.015/ -.002" | .372" | .064" | .050" | 3,900 | .162" | | | |
| HO-181 | 16,139 | 8,450 | .234" | ±.005" | .170" | ±.007" | .084" | ±.007" | .093" | | .382" | .064" | .050" | 3,900 | .165" | | | |
| HO-185 | 16,443 | 8,750 | .234" | ±.005" | .170" | ±.007" | .085" | ±.007" | .093" | .360" | .064" | .050" | 3,900 | .168" | | | | |
| HO-187 | 16,697 | 9,050 | .234" | ±.005" | .170" | ±.007" | .085" | ±.007" | .093" | .430" | .064" | .050" | 3,900 | .171" | | | | |
| HO-193 | 17,255 | 9,700 | .230" | ±.005" | .170" | ±.007" | .085" | ±.007" | .093" | .438" | .064" | .050" | 3,900 | .177" | | | | |
| HO-200 | 17,763 | 10,300 | .230" | ±.005" | .170" | ±.007" | .085" | ±.007" | .093" | .453" | .064" | .050" | 3,900 | .183" | | | | |
| HO-206 | 23,091 | 10,850 | .250" | ±.005" | .186" | ±.007" | .091" | ±.007" | .093" | .428" | .078" | .061" | 6,200 | .186" | | | | |
| | 23,091 | 10,850 | .250" | ±.005" | .186" | ±.007" | .091" | ±.007" | .093" | .468" | .078" | .062" | 6,200 | .186" | | | | |
| HO-212 | 23,751 | 11,350 | .250" | ±.005" | .195" | ±.007" | .096" | ±.007" | .093" | .460" | .078" | .062" | 6,200 | .189" | | | | |
| HO-218 | 24,461 | 12,050 | .250" | ±.005" | .199" | ±.007" | .098" | ±.007" | .093" | .439" | .078" | .062" | 6,200 | .195" | | | | |
| | 24,461 | 12,050 | .250" | ±.005" | .199" | ±.007" | .098" | ±.007" | .093" | .489" | .078" | .062" | 6,200 | .195" | | | | |
| HO-225 | 25,223 | 12,600 | .280" | ±.005" | .203" | ±.007" | .099" | ±.007" | .093" | .478" | .078" | .062" | 6,200 | .198" | | | | |
| HO-231 | 25,832 | 13,550 | .280" | ±.005" | .206" | ±.007" | .100" | ±.007" | .093" | .486" | .078" | .062" | 6,200 | .207" | | | | |
| HO-237 | 26,542 | 14,300 | .280" | ±.005" | .207" | ±.007" | .102" | ±.007" | .093" | .504" | .078" | .062" | 6,200 | .213" | | | | |
| HO-244 | 27,304 | 14,900 | .280" | ±.005" | .209" | ±.007" | .103" | ±.007" | .110" | .518" | .078" | .062" | 6,200 | .216" | | | | |
| HO-250 | 28,014 | 15,650 | .280" | ±.005" | .210" | ±.007" | .103" | ±.007" | .110" | .532" | .078" | .062" | 6,200 | .222" | | | | |
| | 28,014 | 15,650 | .280" | ±.005" | .210" | ±.007" | .103" | ±.007" | .110" | .597" | .078" | .062" | 6,200 | .225" | | | | |
| HO-256 | 34,206 | 16,500 | .300" | ±.005" | .222" | ±.007" | .109" | ±.007" | .110" | .540" | .088" | .070" | 9,000 | .228" | | | | |

◀ Additional attribute data on adjacent page.

For hardness specifications, see page 45.

** F.I.M. (Full Indicator Movement) - Maximum allowable deviation of runout between groove and housing.

¹ Based on housings/shafts made of cold rolled steel. For more information on thrust load and safety factor see pages 14 & 15.

² 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.

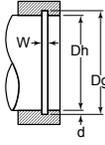
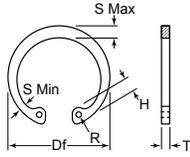
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INTERNAL – BASIC



HOW TO IDENTIFY

1. Verify internal design and appearance.
2. Measure the housing diameter (Dh).
3. Measure the ring cross section maximum (S Max).
4. Measure the ring cross section minimum (S Min).
5. Measure the ring thickness (T).
6. Find the part in the chart.

| Item # | Housing Diameter | | Groove Size | | | | Ring Size & Weight | | | | | Clearance Diameter | |
|--------|------------------|--------|--------------------|-------|----------------|---------------|--------------------|------------------------|-------|-----------------------|-----------------------|--------------------|-------|
| | Diameter | | Width | | Depth | Free Diameter | | Thickness ² | | Weight Per 1,000 pcs. | Compressed in Housing | Released in Groove | |
| | Dh | Dg | Tol. | W | Tol. | d | Df | Tol. | T | Tol. | lbs. | L1 | L2 |
| HO-262 | 2.625" (2-5/8) | 2.781" | | .103" | +0.005/-0.000" | .078" | 2.910" | +0.040/-0.030" | .093" | ±0.003" | 34.50 | 2.02" | 2.17" |
| HO-268 | 2.677" | 2.837" | | .103" | +0.005/-0.000" | .080" | 2.980" | +0.040/-0.030" | .093" | ±0.003" | 35.00 | 2.05" | 2.21" |
| | 2.688" (2-11/16) | 2.848" | | .103" | +0.005/-0.000" | .080" | 2.980" | +0.040/-0.030" | .093" | ±0.003" | 35.00 | 2.06" | 2.22" |
| HO-275 | 2.750" (2-3/4) | 2.914" | | .103" | +0.005/-0.000" | .082" | 3.050" | +0.040/-0.030" | .093" | ±0.003" | 35.50 | 2.12" | 2.28" |
| HO-281 | 2.812" (2-13/16) | 2.980" | | .103" | +0.005/-0.000" | .084" | 3.121" | +0.040/-0.030" | .093" | ±0.003" | 36.00 | 2.18" | 2.34" |
| | 2.835" | 3.006" | | .103" | +0.005/-0.000" | .085" | 3.121" | +0.040/-0.030" | .093" | ±0.003" | 36.00 | 2.21" | 2.38" |
| HO-287 | 2.875" (2-7/8) | 3.051" | | .103" | +0.005/-0.000" | .088" | 3.191" | +0.040/-0.030" | .093" | ±0.003" | 41.00 | 2.24" | 2.41" |
| HO-300 | 2.953" | 3.135" | | .103" | +0.005/-0.000" | .091" | 3.325" | +0.040/-0.030" | .093" | ±0.003" | 42.50 | 2.32" | 2.50" |
| | 3.000" (3) | 3.182" | | .103" | +0.005/-0.000" | .091" | 3.325" | +0.040/-0.030" | .093" | ±0.003" | 42.50 | 2.37" | 2.55" |
| HO-306 | 3.062" (3-1/16) | 3.248" | | .120" | +0.005/-0.000" | .093" | 3.418" | ±0.055" | .109" | ±0.003" | 53.00 | 2.41" | 2.59" |
| HO-312 | 3.125" (3-1/8) | 3.315" | | .120" | +0.005/-0.000" | .095" | 3.488" | ±0.055" | .109" | ±0.003" | 56.00 | 2.47" | 2.66" |
| HO-315 | 3.149" | 3.341" | | .120" | +0.005/-0.000" | .096" | 3.523" | ±0.055" | .109" | ±0.003" | 57.00 | 2.49" | 2.68" |
| | 3.156" (3-5/32) | 3.348" | | .120" | +0.005/-0.000" | .096" | 3.523" | ±0.055" | .109" | ±0.003" | 57.00 | 2.50" | 2.69" |
| HO-325 | 3.250" (3-1/4) | 3.446" | | .120" | +0.005/-0.000" | .098" | 3.623" | ±0.055" | .109" | ±0.003" | 60.00 | 2.54" | 2.73" |
| HO-334 | 3.346" (3-11/32) | 3.546" | | .120" | +0.005/-0.000" | .100" | 3.734" | ±0.055" | .109" | ±0.003" | 65.00 | 2.63" | 2.83" |
| HO-347 | 3.469" (3-15/32) | 3.675" | | .120" | +0.005/-0.000" | .103" | 3.857" | ±0.055" | .109" | ±0.003" | 69.00 | 2.76" | 2.96" |
| HO-350 | 3.500" (3-1/2) | 3.710" | ±.006" .006"*** | .120" | +0.005/-0.000" | .105" | 3.890" | ±0.055" | .109" | ±0.003" | 71.00 | 2.79" | 3.00" |
| | 3.543" | 3.755" | | .120" | +0.005/-0.000" | .106" | 3.936" | ±0.055" | .109" | ±0.003" | 72.00 | 2.83" | 3.04" |
| HO-354 | 3.562" (3-9/16) | 3.776" | | .120" | +0.005/-0.000" | .107" | 3.936" | ±0.055" | .109" | ±0.003" | 72.00 | 2.85" | 3.06" |
| | 3.625" (3-5/8) | 3.841" | | .120" | +0.005/-0.000" | .108" | 4.024" | ±0.055" | .109" | ±0.003" | 73.00 | 2.91" | 3.12" |
| HO-375 | 3.740" | 3.964" | | .120" | +0.005/-0.000" | .112" | 4.157" | ±0.065" | .109" | ±0.003" | 78.00 | 3.02" | 3.24" |
| | 3.750" (3-3/4) | 3.974" | | .120" | +0.005/-0.000" | .112" | 4.157" | ±0.065" | .109" | ±0.003" | 78.00 | 3.03" | 3.25" |
| HO-387 | 3.875" (3-7/8) | 4.107" | | .120" | +0.005/-0.000" | .116" | 4.291" | ±0.065" | .109" | ±0.003" | 87.00 | 3.11" | 3.34" |
| HO-393 | 3.938" (3-15/16) | 4.174" | | .120" | +0.005/-0.000" | .118" | 4.358" | ±0.065" | .109" | ±0.003" | 88.00 | 3.17" | 3.4" |
| HO-400 | 4.000" (4) | 4.240" | | .120" | +0.005/-0.000" | .120" | 4.424" | ±0.065" | .109" | ±0.003" | 93.00 | 3.23" | 3.47" |
| HO-412 | 4.125" (4-1/8) | 4.365" | | .120" | +0.005/-0.000" | .120" | 4.558" | ±0.065" | .109" | ±0.003" | 97.00 | 3.36" | 3.60" |
| HO-425 | 4.250" (4-1/4) | 4.490" | | .120" | +0.005/-0.000" | .120" | 4.691" | ±0.065" | .109" | ±0.003" | 101.00 | 3.48" | 3.72" |
| HO-433 | 4.331" | 4.571" | | .120" | +0.005/-0.000" | .120" | 4.756" | ±0.065" | .109" | ±0.003" | 105.00 | 3.50" | 3.74" |
| HO-450 | 4.500" (4-1/2) | 4.740" | | .120" | +0.005/-0.000" | .120" | 4.940" | ±0.065" | .109" | ±0.003" | 111.00 | 3.66" | 3.90" |
| HO-462 | 4.625" (4-5/8) | 4.865" | | .120" | +0.005/-0.000" | .120" | 5.076" | ±0.065" | .109" | ±0.003" | 117.00 | 3.79" | 4.03" |
| HO-475 | 4.724" | 4.969" | | .120" | +0.005/-0.000" | .122" | 5.213" | ±0.065" | .109" | ±0.003" | 124.00 | 3.88" | 4.12" |
| | 4.750" (4-3/4) | 4.995" | | .120" | +0.005/-0.000" | .122" | 5.213" | ±0.065" | .109" | ±0.003" | 124.00 | 3.90" | 4.14" |
| HO-500 | 5.000" (5) | 5.260" | | .120" | +0.005/-0.000" | .130" | 5.485" | ±0.065" | .109" | ±0.003" | 136.00 | 4.08" | 4.34" |

TO ORDER DIFFERENT MATERIAL/FINISHES, APPEND SUFFIX WITH YOUR CHOICE:

"NONE" • -BC • -SS • -ZD • -Z3

Additional attribute data on adjacent page. ▶



INSTALLATION TOOLS AVAILABLE, SEE PAGE 248



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SUFFIX MATERIAL/FINISH

- ### = CARBON SPRING STEEL, PHOSPHATE
- ###-BC = BERYLLIUM COPPER, FLAIN
- ###-SS = PH 15-7 MO STAINLESS STEEL, FLAIN
- ###-ZD = CARBON SPRING STEEL, ZINC YELLOW
- ###-Z3 = CARBON SPRING STEEL, ZINC TRIVALENT

Material/finish combinations may not be available in all sizes.
More finishes available, see page 22 for a complete listing.

| Item # | Thrust Load ¹ | | Lug Height | | Maximum Section | | Minimum Section | | Hole Diameter | | Gap Width Ring In Groove | Allowable Corner Radii & Chamfers | | | Max. Load w/R Max. or Ch Max. | Edge Margin |
|--------|--------------------------|---------------------------|------------|--------|-----------------|--------|-----------------|--------|---------------|-------------------|--------------------------|-----------------------------------|---------------------|--------|-------------------------------|-------------|
| | Square Corner Abutment | | H | Tol. | S Max. | Tol. | S Min. | Tol. | R | Tol. | | | | | | |
| | Ring Safety Factor of 4 | Groove Safety Factor of 2 | | | | | | | | | | P _r lbs. | P _g lbs. | G Min. | | |
| HO-262 | 35,068 | 17,350 | .300" | ±.005" | .226" | ±.007" | .111" | ±.007" | .110" | | .558" | .088" | .070" | 9,000 | .234" | |
| HO-268 | 35,931 | 18,250 | .300" | ±.005" | .230" | ±.007" | .113" | ±.007" | .110" | | .539" | .090" | .072" | 9,000 | .240" | |
| | 35,931 | 18,250 | .300" | ±.005" | .230" | ±.007" | .113" | ±.007" | .110" | | .568" | .090" | .072" | 9,000 | .240" | |
| HO-275 | 36,642 | 19,200 | .300" | ±.005" | .234" | ±.007" | .115" | ±.007" | .110" | | .590" | .092" | .074" | 9,000 | .246" | |
| HO-281 | 37,504 | 20,050 | .300" | ±.005" | .230" | ±.007" | .115" | ±.007" | .110" | | .615" | .088" | .070" | 9,000 | .252" | |
| | 37,504 | 20,050 | .300" | ±.005" | .230" | ±.007" | .115" | ±.007" | .110" | | .676" | .088" | .070" | 9,000 | .255" | |
| HO-287 | 38,367 | 21,500 | .300" | ±.005" | .240" | ±.007" | .120" | ±.007" | .110" | | .626" | .092" | .074" | 9,000 | .264" | |
| HO-300 | 40,093 | 23,150 | .300" | ±.005" | .250" | ±.007" | .122" | ±.007" | .110" | | .619" | .092" | .074" | 9,000 | .273" | |
| | 40,093 | 23,150 | .300" | ±.005" | .250" | ±.007" | .122" | ±.007" | .110" | | .738" | .092" | .074" | 9,000 | .273" | |
| HO-306 | 47,807 | 24,100 | .310" | ±.008" | .254" | ±.008" | .126" | ±.008" | .125" | | .651" | .097" | .078" | 12,000 | .279" | |
| HO-312 | 48,822 | 25,200 | .310" | ±.008" | .259" | ±.008" | .129" | ±.008" | .125" | | .655" | .099" | .079" | 12,000 | .285" | |
| HO-315 | 49,329 | 25,700 | .310" | ±.008" | .262" | ±.008" | .129" | ±.008" | .125" | | .650" | .100" | .080" | 12,000 | .288" | |
| | 49,329 | 25,700 | .310" | ±.008" | .262" | ±.008" | .129" | ±.008" | .125" | | .669" | .100" | .080" | 12,000 | .288" | |
| HO-325 | 50,750 | 27,000 | .342" | ±.008" | .269" | ±.008" | .135" | ±.008" | .125" | +0.015/ -.002" | .698" | .104" | .083" | 12,000 | .294" | |
| HO-334 | 52,374 | 28,300 | .342" | ±.008" | .276" | ±.008" | .140" | ±.008" | .125" | | .705" | .108" | .086" | 12,000 | .300" | |
| HO-347 | 54,201 | 30,200 | .342" | ±.008" | .286" | ±.008" | .144" | ±.008" | .125" | | .763" | .108" | .086" | 12,000 | .309" | |
| HO-350 | 54,709 | 31,200 | .342" | ±.008" | .289" | ±.008" | .142" | ±.008" | .125" | | .774" | .110" | .088" | 12,000 | .315" | |
| HO-354 | 55,419 | 31,800 | .342" | ±.008" | .292" | ±.008" | .142" | ±.008" | .125" | | .788" | .110" | .088" | 12,000 | .318" | |
| | 55,419 | 31,800 | .342" | ±.008" | .292" | ±.008" | .142" | ±.008" | .125" | | .842" | .110" | .088" | 12,000 | .321" | |
| HO-362 | 56,739 | 33,200 | .342" | ±.008" | .299" | ±.008" | .150" | ±.008" | .125" | | .833" | .116" | .093" | 12,000 | .324" | |
| HO-375 | 58,566 | 35,600 | .342" | ±.008" | .309" | ±.008" | .155" | ±.008" | .125" | | .844" | .120" | .096" | 12,000 | .336" | |
| | 58,566 | 35,600 | .342" | ±.008" | .309" | ±.008" | .155" | ±.008" | .125" | | .871" | .120" | .096" | 12,000 | .336" | |
| HO-387 | 60,494 | 38,000 | .370" | ±.008" | .319" | ±.008" | .160" | ±.008" | .125" | | .891" | .123" | .098" | 12,000 | .348" | |
| HO-393 | 61,611 | 39,300 | .370" | ±.008" | .324" | ±.008" | .161" | ±.008" | .125" | | .905" | .124" | .099" | 12,000 | .354" | |
| HO-400 | 62,626 | 40,700 | .370" | ±.008" | .330" | ±.008" | .166" | ±.008" | .125" | | .918" | .128" | .102" | 12,000 | .360" | |
| HO-412 | 64,554 | 42,000 | .370" | ±.008" | .330" | ±.009" | .171" | ±.009" | .125" | | .940" | .130" | .104" | 12,000 | .360" | |
| HO-425 | 66,483 | 43,200 | .370" | ±.008" | .335" | ±.009" | .180" | ±.009" | .125" | | .960" | .138" | .110" | 12,000 | .360" | |
| HO-433 | 67,599 | 44,500 | .405" | ±.008" | .343" | ±.009" | .180" | ±.009" | .156" | | 1.00" | .142" | .114" | 12,000 | .360" | |
| HO-450 | 70,340 | 45,800 | .405" | ±.008" | .351" | ±.009" | .181" | ±.009" | .156" | | .980" | .146" | .117" | 12,000 | .360" | |
| HO-462 | 72,370 | 47,000 | .405" | ±.008" | .405" | ±.009" | .183" | ±.009" | .156" | +0.020/ -.005" | 1.00" | .151" | .121" | 12,000 | .360" | |
| HO-475 | 74,298 | 49,000 | .405" | ±.008" | .370" | ±.009" | .183" | ±.009" | .156" | | .960" | .154" | .123" | 12,000 | .366" | |
| | 74,298 | 49,000 | .405" | ±.008" | .370" | ±.009" | .183" | ±.009" | .156" | | 1.03" | .154" | .123" | 12,000 | .366" | |
| HO-500 | 78,155 | 55,000 | .435" | ±.008" | .390" | ±.009" | .186" | ±.009" | .156" | | .970" | .158" | .126" | 12,000 | .390" | |

◀ Additional attribute data on adjacent page.

For hardness specifications, see page 45.

** F.I.M. (Full Indicator Movement) – Maximum allowable deviation of runout between groove and housing.

¹ Based on housings/shafts made of cold rolled steel. For more information on thrust load and safety factor see pages 14 & 15.

² 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.

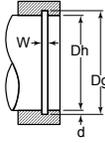
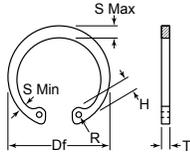
**STACKED OPTIONS
AVAILABLE, SEE
HUYETT.COM FOR
MORE DETAILS**

AXIALLY INSTALLED

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INTERNAL – BASIC



HOW TO IDENTIFY

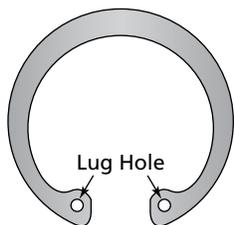
1. Verify internal design and appearance.
2. Measure the housing diameter (Dh).
3. Measure the ring cross section maximum (S Max).
4. Measure the ring cross section minimum (S Min).
5. Measure the ring thickness (T).
6. Find the part in the chart.

| Item # | Housing Diameter | | Groove Size | | | | Ring Size & Weight | | | | | Clearance Diameter | |
|---------|------------------|--------|----------------|----------------|----------------|---------------|--------------------|------------------------|--------|-----------------------|-----------------------|--------------------|-------|
| | Diameter | | Width | | Depth | Free Diameter | | Thickness ² | | Weight Per 1,000 pcs. | Compressed in Housing | Released in Groove | |
| | Dh | Dg | Tol. | W | Tol. | d | Df | Tol. | T | Tol. | lbs. | L1 | L2 |
| HO-525 | 5.250" (5-1/4) | 5.520" | ±.007" .006*** | .139" | +0.006/-0.000" | .135" | 5.770" | ±.065" | .125" | ±.004" | 174.0 | 4.35" | 4.62" |
| HO-537 | 5.375" (5-3/8) | 5.650" | | .139" | +0.006/-0.000" | .135" | 5.910" | ±.065" | .125" | ±.004" | 179.0 | 4.45" | 4.72" |
| HO-550 | 5.500" (5-1/2) | 5.770" | | .139" | +0.006/-0.000" | .135" | 6.066" | ±.065" | .125" | ±.004" | 183.0 | 4.57" | 4.84" |
| HO-575 | 5.750" (5-3/4) | 6.020" | | .139" | +0.006/-0.000" | .135" | 6.336" | ±.065" | .125" | ±.004" | 192.0 | 4.82" | 5.09" |
| HO-600 | 6.000" (6) | 6.270" | | .139" | +0.006/-0.000" | .135" | 6.620" | ±.065" | .125" | ±.004" | 202.1 | 5.07" | 5.34" |
| HO-625 | 6.250" (6-1/4) | 6.530" | ±.008" .006*** | .174" | +0.008/-0.000" | .140" | 6.895" | ±.080" | .156" | ±.005" | 266.0 | 5.24" | 5.52" |
| HO-650 | 6.500" (6-1/2) | 6.790" | | .174" | +0.008/-0.000" | .145" | 7.170" | ±.080" | .156" | ±.005" | 281.0 | 5.49" | 5.78" |
| HO-662 | 6.625" (6-5/8) | 6.925" | | .174" | +0.008/-0.000" | .150" | 7.308" | ±.080" | .156" | ±.005" | 305.0 | 5.60" | 5.90" |
| HO-675 | 6.750" (6-3/4) | 7.055" | | .174" | +0.008/-0.000" | .152" | 7.445" | ±.080" | .156" | ±.005" | 325.0 | 5.68" | 5.98" |
| HO-700 | 7.000" (7) | 7.315" | | .174" | +0.008/-0.000" | .157" | 7.720" | ±.080" | .156" | ±.005" | 344.0 | 5.91" | 6.22" |
| HO-725 | 7.250" (7-1/4) | 7.575" | | .209" | +0.008/-0.000" | .162" | 7.995" | ±.090" | .187" | ±.005" | 428.0 | 6.11" | 6.43" |
| HO-750 | 7.500" (7-1/2) | 7.840" | | .209" | +0.008/-0.000" | .170" | 8.270" | ±.090" | .187" | ±.005" | 485.0 | 6.36" | 6.70" |
| HO-775 | 7.750" (7-3/4) | 8.100" | | .209" | +0.008/-0.000" | .175" | 8.545" | ±.090" | .187" | ±.005" | 520.0 | 6.58" | 6.93" |
| HO-800 | 8.000" (8) | 8.360" | | .209" | +0.008/-0.000" | .180" | 8.820" | ±.090" | .187" | ±.005" | 555.0 | 6.83" | 7.19" |
| HO-825 | 8.250" (8-1/4) | 8.620" | | .209" | +0.008/-0.000" | .185" | 9.095" | ±.090" | .187" | ±.005" | 603.0 | 7.04" | 7.41" |
| HO-850 | 8.500" (8-1/2) | 8.880" | .209" | +0.008/-0.000" | .190" | 9.285" | ±.090" | .187" | ±.005" | 634.0 | 7.29" | 7.67" | |
| HO-875 | 8.750" (8-3/4) | 9.145" | .209" | +0.008/-0.000" | .197" | 9.558" | ±.090" | .187" | ±.005" | 653.0 | 7.38" | 7.77" | |
| HO-900 | 9.000" (9) | 9.405" | .209" | +0.008/-0.000" | .202" | 9.830" | ±.090" | .187" | ±.005" | 732.0 | 7.63" | 8.03" | |
| HO-925 | 9.250" (9-1/4) | 9.668" | .209" | +0.008/-0.000" | .209" | 1.102" | ±.090" | .187" | ±.005" | 767.0 | 7.88" | 8.30" | |
| HO-950 | 9.500" (9-1/2) | 9.930" | .209" | +0.008/-0.000" | .215" | 1.375" | ±.090" | .187" | ±.005" | 803.0 | 7.98" | 8.41" | |
| HO-975 | 9.750" (9-3/4) | 1.190" | .209" | +0.008/-0.000" | .220" | 1.648" | ±.090" | .187" | ±.005" | 833.0 | 8.23" | 8.67" | |
| HO-1000 | 1.000" (10) | 1.450" | .209" | +0.008/-0.000" | .225" | 1.920" | ±.090" | .187" | ±.005" | 863.0" | 8.48" | 8.93" | |

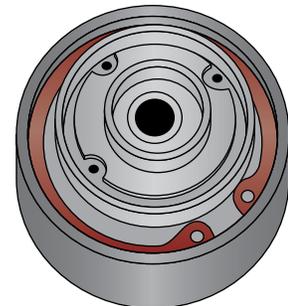
Additional attribute data on adjacent page. ▶

TO ORDER DIFFERENT MATERIAL/FINISHES,
APPEND SUFFIX WITH YOUR CHOICE:
"NONE" • -BC • -SS • -ZD • -Z3

APPLICATIONS



All axial retaining rings (except for the SHM) feature lug holes. These are used to install the rings using special pliers with tips that can be inserted into the holes. The lugs can then be compressed (internal) for installation into a housing, or expanded (external) for installing over a shaft.



An HO ring retains the valve on this cast assembly.

FOR DETAILED SPECIFICATIONS AND TOLERANCES, VISIT HUYETT.COM.
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INTERNAL - BASIC



SUFFIX MATERIAL/FINISH

- ### = CARBON SPRING STEEL, PHOSPHATE
- ###-BC = BERYLLIUM COPPER, PLAIN
- ###-SS = PH 15-7 MO STAINLESS STEEL, PLAIN
- ###-ZD = CARBON SPRING STEEL, ZINC YELLOW
- ###-Z3 = CARBON SPRING STEEL, ZINC TRIVALENT

Material/finish combinations may not be available in all sizes.
More finishes available, see page 22 for a complete listing.

| Item # | Thrust Load ¹ Square Corner Abutment | | Lug Height | | Maximum Section | | Minimum Section | | Hole Diameter | | Gap Width Ring In Groove | Allowable Corner Radii & Chamfers | | | Max. Load w/R Max. or Ch Max. | Edge Margin | | |
|---------|--|---------------------------|------------|--------|-----------------|--------|-----------------|--------|---------------|--------------------|--------------------------|-----------------------------------|--------|---------|-------------------------------|-------------|----------|---|
| | Ring Safety Factor of 4 | Groove Safety Factor of 2 | H | Tol. | S Max. | Tol. | S Min. | Tol. | R | Tol. | | G Min. | R Max. | Ch Max. | | | P'r lbs. | Y |
| | | | | | | | | | | | | | | | | | | |
| HO-525 | 94,091 | 60,000 | .435" | ±.010" | .435" | ±.009" | .198" | ±.009" | .156" | | 1.10" | .168" | .134" | 15,000 | .405" | | | |
| HO-537 | 96,324 | 61,500 | .455" | ±.010" | .408" | ±.009" | .198" | ±.009" | .156" | | 1.12" | .168" | .134" | 15,000 | .405" | | | |
| HO-550 | 98,658 | 63,300 | .435" | ±.010" | .435" | ±.009" | .198" | ±.009" | .156" | | 1.09" | .168" | .134" | 15,000 | .405" | | | |
| HO-575 | 103,124 | 65,900 | .435" | ±.010" | .435" | ±.009" | .198" | ±.009" | .156" | | 1.11" | .168" | .134" | 15,000 | .405" | | | |
| HO-600 | 107,489 | 68,600 | .435" | ±.010" | .435" | ±.009" | .198" | ±.009" | .156" | | 1.13" | .168" | .134" | 15,000 | .405" | | | |
| HO-625 | 139,766 | 74,100 | .485" | ±.010" | .485" | ±.009" | .211" | ±.009" | .187" | | 1.16" | .177" | .142" | 23,000 | .420" | | | |
| HO-650 | 145,450 | 79,900 | .485" | ±.010" | .438" | ±.009" | .219" | ±.009" | .187" | | 1.25" | .181" | .145" | 23,000 | .435" | | | |
| HO-662 | 148,190 | 84,200 | .485" | ±.010" | .485" | ±.009" | .221" | ±.009" | .187" | | 1.28" | .183" | .146" | 23,000 | .450" | | | |
| HO-675 | 151,032 | 87,000 | .530" | ±.010" | .456" | ±.009" | .224" | ±.009" | .187" | | 1.21" | .188" | .15" | 23,000 | .456" | | | |
| HO-700 | 156,615 | 93,100 | .515" | ±.010" | .515" | ±.009" | .232" | ±.009" | .187" | | 1.26" | .196" | .157" | 23,000 | .471" | | | |
| HO-725 | 194,373 | 99,600 | .545" | ±.010" | .545" | ±.010" | .238" | ±.010" | .187" | + .020/ - .005" | 1.32" | .202" | .162" | 34,000 | .486" | | | |
| HO-750 | 201,173 | 108,100 | .560" | ±.010" | .507" | ±.010" | .247" | ±.010" | .187" | | 1.39" | .208" | .166" | 34,000 | .510" | | | |
| HO-775 | 207,872 | 115,000 | .560" | ±.010" | .523" | ±.010" | .255" | ±.010" | .187" | 1.44" | .214" | .171" | 34,000 | .525" | | | | |
| HO-800 | 214,571 | 122,000 | .560" | ±.010" | .560" | ±.010" | .262" | ±.010" | .187" | 1.50" | .22" | .176" | 34,000 | .540" | | | | |
| HO-825 | 221,270 | 129,300 | .600" | ±.010" | .558" | ±.010" | .270" | ±.010" | .187" | 1.53" | .229" | .183" | 34,000 | .555" | | | | |
| HO-850 | 227,969 | 136,900 | .660" | ±.010" | .573" | ±.010" | .277" | ±.010" | .187" | 1.71" | .235" | .188" | 34,000 | .570" | | | | |
| HO-875 | 233,856 | 145,500 | .660" | ±.010" | .660" | ±.010" | .286" | ±.010" | .187" | 1.77" | .241" | .193" | 34,000 | .591" | | | | |
| HO-900 | 241,367 | 154,100 | .660" | ±.010" | .609" | ±.010" | .294" | ±.010" | .187" | 1.83" | .249" | .199" | 34,000 | .606" | | | | |
| HO-925 | 248,066 | 163,600 | .660" | ±.010" | .625" | ±.010" | .299" | ±.010" | .187" | 1.87" | .253" | .202" | 34,000 | .627" | | | | |
| HO-950 | 254,765 | 173,100 | .735" | ±.010" | .642" | ±.010" | .304" | ±.010" | .187" | 1.91" | .258" | .206" | 34,000 | .645" | | | | |
| HO-975 | 261,464 | 181,900 | .735" | ±.010" | .658" | ±.010" | .309" | ±.010" | .187" | 2.00" | .263" | .210" | 34,000 | .660" | | | | |
| HO-1000 | 268,163 | 190,700 | .735" | ±.010" | .675" | ±.010" | .315" | ±.010" | .187" | 2.01" | .27" | .216" | 34,000 | .675" | | | | |

◀ Additional attribute data on adjacent page.

- ** F.I.M. (Full Indicator Movement) – Maximum allowable deviation of runout between groove and housing.
- ¹ Based on housings/shafts made of cold rolled steel. For more information on thrust load and safety factor see pages 14 & 15.
- ² 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.



**INSTALLATION
TOOLS AVAILABLE,
SEE PAGE 248**

HARDNESS RANGES: HO RINGS

| Material | Size Range | Scale | Rockwell Hardness |
|---------------------------------------|------------|-------|-------------------|
| (blank) Carbon Steel, (SAE 1060-1090) | 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 |
| -SS Stainless Steel, (PH 15-7 Mo) | 25 & 31 | 15N | 82.5 - 86 |
| | 37 - 102 | 30N | 63 - 69.5 |
| | 106+ | C | 44 - 51 |
| -BC Beryllium Copper | 25 & 31 | 15N | 77 - 82 |
| | 37 - 102 | 30N | 54 - 62 |
| | 106+ | C | 34 - 43 |