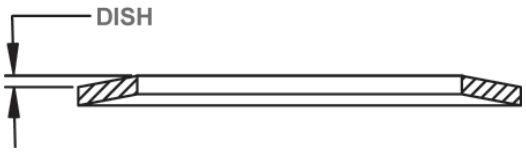
Government & Industry Standards

LIMITATIONS – DISH, PITCH & BURR

Rotor Clip retaining rings meet accepted industry parameters for limitations of dish and pitch. These characteristics are illustrated below.

1. DISH LIMITATIONS

Dish is any difference in height occurring from the outer edge of the ring to the inner edge. This condition should be considered separate from Pitch (see #2). To determine Dish, a small amount of weight can be applied to the upper surface of the ring to remove pitch from the overall height measurement.

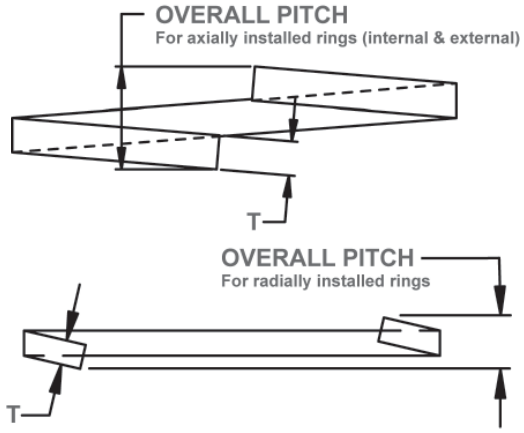


DISH LIMITATIONS-For Internal, External & Radial Rings

Ring Thickness (In.)	Allowable Dish (In.)
0.010-0.015	0.002
0.025-0.035	0.003
0.042-0.093	0.005
0.109-0.125	0.010
0.156-0.187	0.015

2. PITCH LIMITATIONS

Pitch takes into account thickness of the ring including any mismatching of lugs, where applicable.

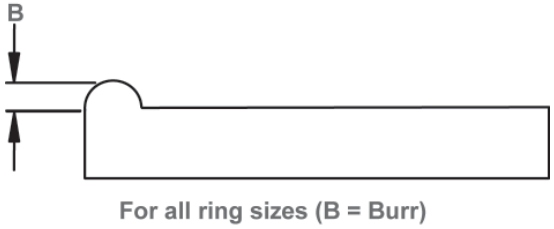


PITCH LIMITATIONS

Ring Size (In.) For Shafts/Bores	Internal & External Retaining Rings Maximum Overall Pitch	Radial Retaining Rings
ALL SIZES	3T	-
UP TO 1/2"	-	1.5T
OVER 1/2"	-	2T

3. BURR LIMITATIONS

A burr results from the metal stamping process. It is a raised edge for which the following parameters apply.



BURR LIMITATIONS

Material Thickness (In.)	Maximum Allowable Burr (In.)
0.010-0.020	0.001
0.025	0.0015
0.035-0.109	0.002
0.125 & Over	0.003

Military Retaining Rings

100% MILITARY CERTIFIED RETAINING RINGS

- **DFARS Compliant**
- **CAGE CODE: 07382**
- **MADE IN USA**

Rotor Clip now offers retaining rings certified to military standards in the popular materials and finishes listed below:

MATERIAL	FINISH	MS CODE	ROTOR CLIP DESIGNATION
Carbon Steel	Cadmium Plated	1	ST MCD
Carbon Steel	Zinc Dichromate Plated	2	ST MZD
Carbon Steel	Phosphate Coated	3	ST MPD
Stainless Steel	Passivated	4	SS MPS
Beryllium Copper	-	5	BC MTM

Example: Military Part converted to a Rotor Clip Part Number:

MS PART NUMBER **ROTOR CLIP EQUIVALENT**

MS16624-1025 → **SH-25ST MCD**

Ring Type (SH, HO, E, etc.) | Finish Designation | Size

NOTE: Truarc LLC, a former producer of retaining rings for military and commercial use, is no longer in business. Rotor Clip purchased Truarc's assets and intellectual property. **Truarc military cage code 79136 has been replaced by Rotor Clip cage code 07382.**

DFARS (Defense Federal Acquisition Regulation Supplement)

ALL ROTOR CLIP STAINLESS STEEL AND BERYLLIUM COPPER RETAINING RINGS ARE DFARS COMPLIANT.

Military Standard: MS3215
Rotor Clip Series: RE
Radially Assembled, External, Reinforced

Military Standard: MS3216
Rotor Clip Series: EL
Radially Assembled, External, Bowed, Locking

Military Standard: MS3217
Rotor Clip Series: SHR
Axially Assembled, External, Reinforced

Military Standard: MS16624
Rotor Clip Series: SH
Axially Assembled, External

Military Standard: MS16625
Rotor Clip Series: HO
Axially Assembled, Internal

Military Standard: MS16626
Rotor Clip Series: SHI
Axially Assembled, External, Inverted

Military Standard: MS16627
Rotor Clip Series: HOI
Axially Assembled, Internal, Inverted

Military Standard: MS16629
Rotor Clip Series: BHO
Axially Assembled, Internal, Bowed

Military Standard: MS16628
Rotor Clip Series: BSH
Axially Assembled, External, Bowed

Military Standard: MS16630
Rotor Clip Series: VSH
Axially Assembled, External, Beveled

Military Standard: MS16631
Rotor Clip Series: VHO
Axially Assembled, Internal, Beveled

Military Standard: MS16632
Rotor Clip Series: C
Radially Assembled, External, Crescent

Military Standard: MS16633
Rotor Clip Series: E
Radially Assembled, External, "E"

Military Standard: MS16634
Rotor Clip Series: BE
Radially Assembled, External, Bowed "E"

Military Standard: MS90707
Rotor Clip Series: SHF
Axially Assembled, External, Friction

Military Standard: MS90708
Rotor Clip Series: LC
Radially Assembled, External, Interlocking