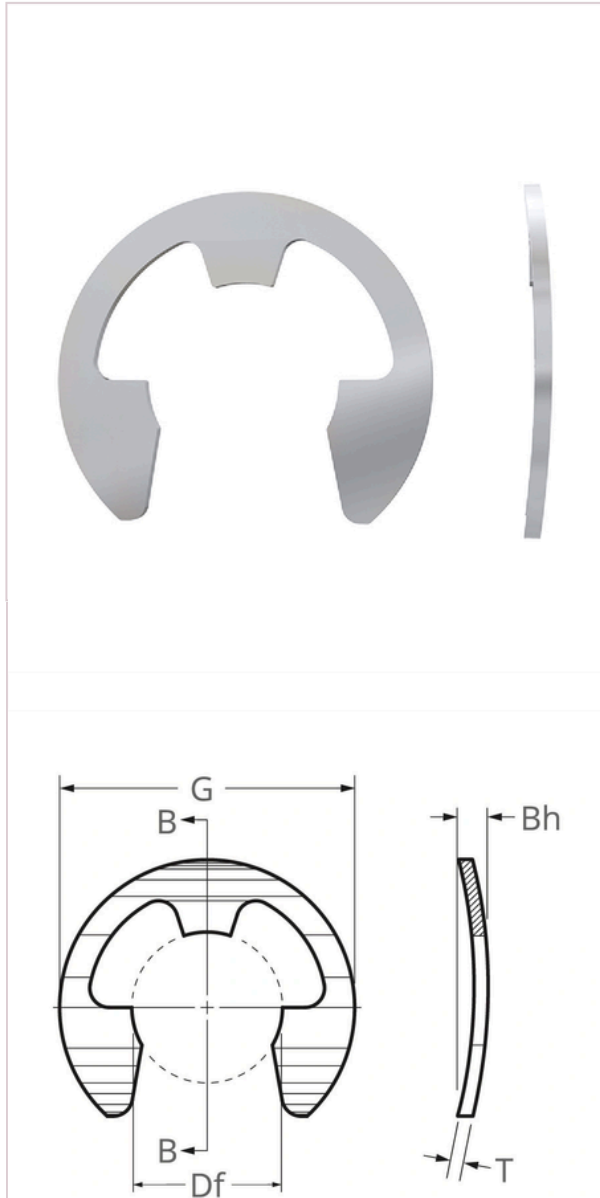


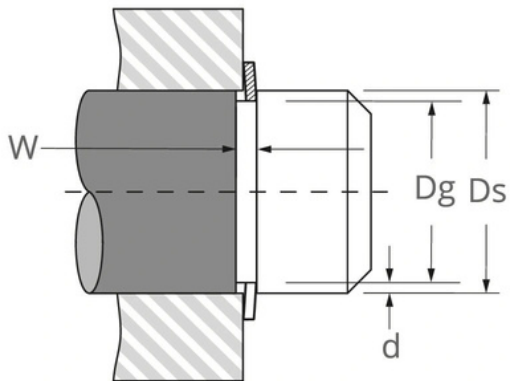
BSE-31 Description

Radially Assembled, External Bowed E. Compensating for accumulated tolerances is what a BE Bowed retaining ring is designed to do on a shaft. Once snapped into the groove, bowed rings exert a force or a preload on the retained parts for the range specified.

Images



Free Diameter & Ring Measurements with
Section B-B



Shaft Diameter & Groove Dimensions

Specifications

Part Data

Housing or Shaft	Shaft
Axial or Radial	Radial
Shaft Diameter Ds	0.312 inches
Ds mm	7.900 mm
Groove Diameter Dg	0.250 - 0.253 - inches
Groove Width W	0.047 - 0.050 - inches
Groove Depth D	0.031 inches



Free Diameter Df	0.239 - 0.245 - inches
Thickness T ***	0.023 - 0.027 - inches
Bow Height Bh	0.050 - 0.065 - inches
Outside Diameter G	0.500 inches
Clearance Dia. Installed In Groove L2	0.520 inches
Weight Per 1000 Pcs.	0.570 lbs.
Edge Margin Y Min.	0.062 inches
Outer Groove Wall To Face Of Retained Part J Max	0.046 inches
Outer Groove Wall To Face Of Retained Part J Min	0.036 inches
Hardness ST	66.500 - 71.000 - HR30N
Hardness SS	63.000 - 69.500 - HR30N
Hardness BC	54.000 - 62.000 - HR30N
Interchange Waldes Truarc	X5131 31
Interchange IRR	1001 X31
Interchange Anderton	N1504 X031
Interchange Mil Or Aero	MS16634C X31
Interchange Din	

Performance Data

Thrust Load Ring Safety Factor Of 3 Pr	330 lbs.
Thrust Ld. (lbs.) Groove Safety Factor Of 2 Pg	225 lbs.
R.P.M. Limits Standard Material RPM	22,000.000

Resilient Take-Up Of Tolerances A & B	0.010 inches
Force Needed To Flatten Rings	30.000 lbs.

Tool Data

End-Play Ring Applicator A-560

ITEM SKU	STYLE	MATERIAL	FINISH
BSE-31SS	Bowed Radially Assembled External/Shaft	PH 15-7 Stainless Steel	None/Self Finish