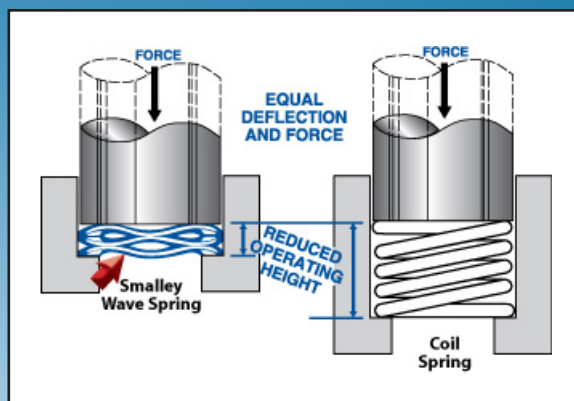


# WAVE SPRINGS

Wave Springs offer an alternative to coiled springs with specific advantages such as; reduced working height with equal deflection and equal force which is ideal for tight radial and axial spaces. They are edge wound and offer similar manufacturing and tolerance advantages to Spiral Rings

- Comes in sizes of ½" to 16" / 16mm to 580mm
- 2 major types – Single turn and Crest-to-Crest
- Function in static and/or dynamic conditions
- They are ideal for limited space application
- Carbon Steel or Stainless Steel



Plain Ends – Crest to Crest –  
Ideal for tightest load  
deflection specifications.

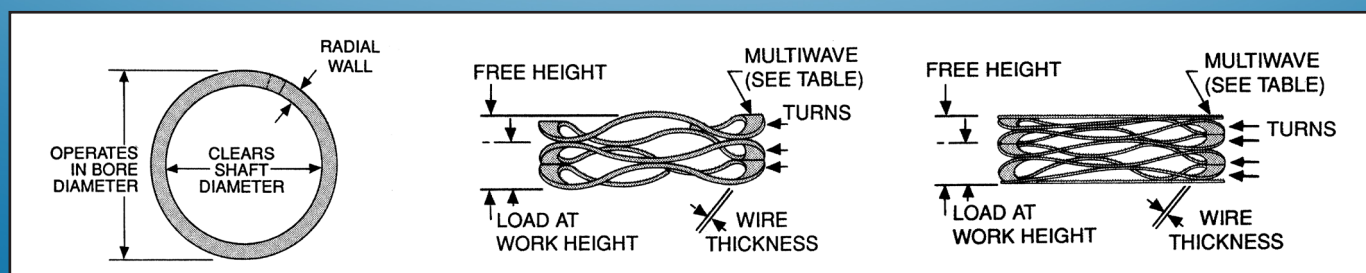
Squared Shimmed Ends  
– Crest to Crest –  
Ideal for tightest load  
deflection specifications.

Overlap Type – Single Turn –  
Suitable for majority of  
applications.

Gap Type – Single Turn Round  
Wire - Suitable for majority of  
applications.

Nested – It exerts tremendous  
force and often replaces  
Belleville spring washers

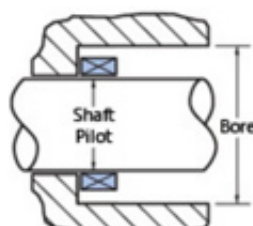
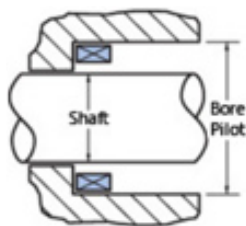
## DESIGN CHARACTERISTICS



## ENQUIRY FORM

Is this Wave Spring intended for Military or Aerospace use? YES ☐ NO ☐

Specify which diameter the spring should pilot closest to: BORE ☐ SHAFT ☐



Bore diameter		Free Height	
Shaft diameter		Work Height	
Wire Width		Material	
Wire Thickness		Finish	
Number of Turns		Quantity	

### FATIGUE – Duty Cycle

Spring failure under cyclic operation is best determined by actual testing.

Theoretical calculations for fatigue are based on operating stress and only approximate the cycle life.

Cycle testers can be utilised to assist in determining anticipated cycle life.

- ☐ Static Application
- ☐ Under 30,000 cycles
- ☐ 30,000 – 50,000 cycles
- ☐ 50,000 – 75,000 cycles
- ☐ 75,000 – 100,000 cycles
- ☐ 100,000 – 200,000 cycles
- ☐ 200,000 – 1,000,000 cycles
- ☐ 1,000,000 + cycles

Please select your preference below:



Thank you for completing this form.

Please scan and email this back to [contact@circlips.com.au](mailto:contact@circlips.com.au) or fax it to +61 3 9890 1990