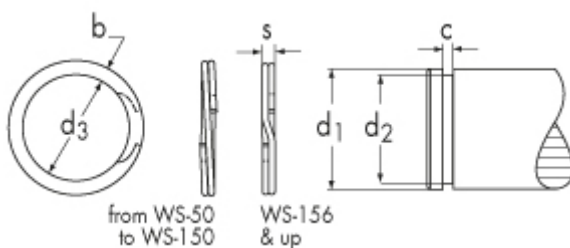


**SMALLEY® SPIRAL RETAINING RINGS**
**SAE 1060-75 Carbon Steel**

surface treatment:  
**Oil dipped**
**Example of designation: WS-50**

**d1**=shaft diameter  
**d2**=groove diameter  
**d3**=internal ring diameter  
**s**=thickness

Medium duty series  
**WS - for shafts (in inches)**


| description  | Price<br>Euro x100 | % Price Change | Package |
|--------------|--------------------|----------------|---------|
| <b>WS-93</b> | <b>25,00</b>       | 1<br>+ 20%     | 2<br>-  |

| DESCRIPTION                                          | GROOVE                                       | THRUST CAPACITY                                                                |
|------------------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------|
| WS-93                                                | <b>d2</b> inch. 0.900<br>mm 22.86            | <b>ring shear</b> Newtons 18.682<br>L.B.S. 4,200                               |
| <b>d1 mm</b> 23.80                                   | <b>Toll. d2</b> inch. +/-0,003<br>mm +/-0,08 | (safety factor =3)                                                             |
| <b>d1 inch</b> 0.937                                 | <b>c</b> inch. 0.036<br>mm 0.91              | <b>groove yield</b> Newtons 5.604<br>L.B.S. 1,260                              |
| <b>RING IN THE UNSTRESSED STATE</b>                  | <b>Toll. c</b> inch. +0,003<br>mm +0,080     | (based on a groove material yield strength of 310/mm and a safety factor of 2) |
| <b>d3</b> inch. 0.889<br>mm 22.58                    |                                              |                                                                                |
| <b>Toll. d3</b> inch. -0,013<br>mm -0,33             |                                              |                                                                                |
| <b>b</b> inch. 0.065<br>mm 1.65                      |                                              |                                                                                |
| <b>Toll. b</b> inch. +0,003/-0,005<br>mm +0,08/-0,13 |                                              |                                                                                |
| <b>s</b> inch. 0.031<br>mm 0.79                      |                                              |                                                                                |
| <b>Toll. s</b> inch. +/-0,002<br>mm +/-0,05          |                                              |                                                                                |
| <b>Weight Kg/1000</b> 0.68                           |                                              |                                                                                |

Technical informations are indicative and can be updated.

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