

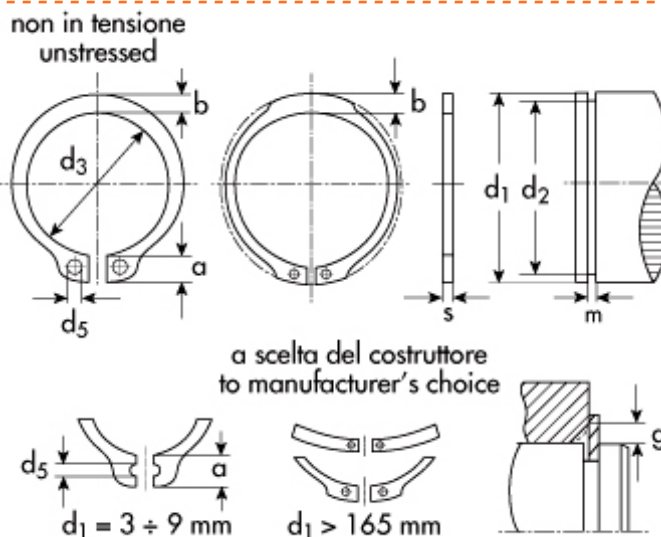
## RETAINING RINGS

**Material:** Spring steel

**Hardness:**

**SURFACE FINISHES**  
**Phosphated and oiled**  
**Blackened and oiled**  
 Manufacturer's choice

**Example of designation:**  
 ring type **A 25**



DIN 471  
 UNI 3653-7435  
 Type **A** - for  
 shafts



**d<sub>1</sub>**=shaft diameter  
**d<sub>2</sub>**=groove diameter  
**d<sub>3</sub>**=ring diameter in the unstressed state  
**s**=thickness

\* **AA**= two holes execution

| d1     | Description | Price<br>euro /100 | % Price Change |   | Package |
|--------|-------------|--------------------|----------------|---|---------|
|        |             |                    | 1              | 2 |         |
| 148.00 | (A 148)     | -                  | -              | - | 25      |

| RING                      |             | GROOVE                    |       | SUPPLEMENTARY DATA                      |       |
|---------------------------|-------------|---------------------------|-------|-----------------------------------------|-------|
| <b>d<sub>1</sub></b>      | 148.00      | <b>d<sub>2</sub></b>      | 144.0 | <b>n</b>                                | 6.0   |
| <b>s</b>                  | 4.00        | <b>tole d<sub>2</sub></b> | -0.63 | <b>FN (kN)</b>                          | 152.0 |
| <b>tole s</b>             | -0.10       | <b>m</b>                  | 4.15  | <b>FR (kN)</b>                          | 357   |
| <b>d<sub>3</sub></b>      | 140.0       | <b>t</b>                  | 2.00  | <b>g</b>                                | 4.0   |
| <b>tole d<sub>3</sub></b> | +0.63 -1.50 |                           |       | <b>FRg (kN)</b>                         | 53.00 |
| <b>a max</b>              | 12.3        |                           |       | <b>AN (mm<sup>2</sup>)</b>              | 916   |
| <b>b ~</b>                | 11.6        |                           |       | <b>K (kN.mm)</b>                        | 820   |
| <b>d<sub>5</sub> min</b>  | 4.0         |                           |       | <b>n<sub>abl</sub>.x1000 (giri/min)</b> | 2     |
| <b>weight kg/1000</b>     | 116.000     |                           |       | <b>plier</b>                            | ZGA 5 |

Technical informations are indicative and can be updated.

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