

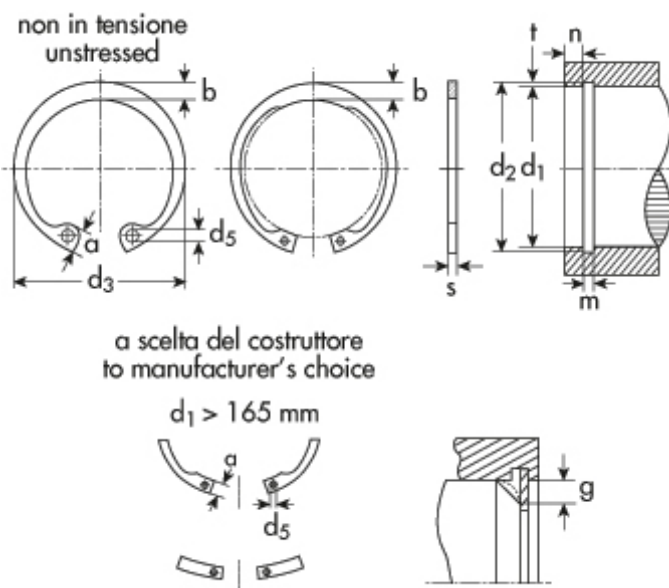
## RETAINING RINGS

**Material:** Spring steel

**Hardness:**

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

**Example of designation:**  
 ring type J 30



DIN 472  
 UNI 3654-7437  
 Type J - for  
 bores



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

| d1    | Description | Price<br>euro /100 | % Price Change | Package |
|-------|-------------|--------------------|----------------|---------|
| 19.00 | J 19        | 3,00               | -              | 1000    |

| RING                |             | GROOVE              |      | SUPPLEMENTARY DATA    |         |
|---------------------|-------------|---------------------|------|-----------------------|---------|
| d <sub>1</sub>      | 19.00       | d <sub>2</sub>      | 20.0 | n                     | 1.5     |
| s                   | 1.00        | tole d <sub>2</sub> | 0.13 | FN (kN)               | 5.10    |
| tole s              | -0.06       | m                   | 1.10 | FR (kN)               | 6.8     |
| d <sub>3</sub>      | 20.5        | t                   | 0.50 | g                     | 1.0     |
| tole d <sub>3</sub> | +0.42 -0.13 |                     |      | FRg (kN)              | 2.5     |
| a max               | 4.1         |                     |      | AN (mm <sup>2</sup> ) | 30.6    |
| b ~                 | 2.2         |                     |      | K (kN.mm)             | 17.2    |
| d <sub>5</sub> min  | 2.0         |                     |      | plier                 | ZGJ 1-2 |
| weight kg/1000      | 0.730       |                     |      |                       |         |

Technical informations are indicative and can be updated.

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