

## RETAINING RINGS

**Material:** Spring steel

**Hardness:**

d1: 10÷48mm 470÷580 HV 47÷54 HRC

**Hardness:**

d1: 50÷100mm 435÷530 HV 44÷51 HRC

**SURFACE FINISHES**

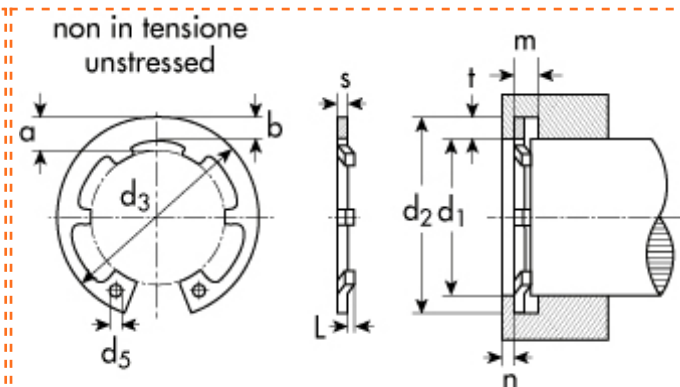
**Phosphated and oiled**

**Blackened and oiled**

Manufacturer's choice

**Example of designation:**

ring type JL 30



type JL - 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 |
|-------|-------------|--------------------|----------------|---|---------|
|       |             |                    | 1              | 2 |         |
| 19.00 | JL 19       | 3,00               | NET            | - | 1000    |

| RING                |             | GROOVE              |      | SUPPLEMENTARY DATA |         |
|---------------------|-------------|---------------------|------|--------------------|---------|
| d <sub>1</sub>      | 19.00       | d <sub>2</sub>      | 20.0 | n                  | 1.5     |
| s                   | 0.80        | tole d <sub>2</sub> | 0.15 | FN (kN)            | 5.1     |
| d <sub>3</sub>      | 20.5        | m                   | 0.90 | FR (kN)            | 4.06    |
| tole d <sub>3</sub> | +0.42 -0.13 |                     |      | g                  | 1.0     |
| a max               | 3.8         |                     |      | FRg (kN)           | 1.29    |
| b ~                 | 2.3         |                     |      | FL max (kN)        | 0.17    |
| d <sub>5</sub> min  | 2.0         |                     |      | L min              | 0.25    |
|                     |             |                     |      | u                  | 0.05    |
|                     |             |                     |      | C (kN/mm)          | 0.8600  |
|                     |             |                     |      | plier              | ZGJ 1-2 |

Technical informations are indicative and can be updated.

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