

## U-cup type 2001



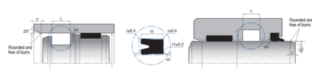
### Characteristics

**Type:** 2001

**Material seal:** NBR

**Max. operating pressure:** 150 bar

**Maximum speed:** 0.5 m/s



| Operating conditions |                          |             |               |
|----------------------|--------------------------|-------------|---------------|
| Media                | Mineral Oils [DIN 51524] | HFA and HFB | HFC           |
| Temperature          | -30°C + 105°C            | +5°C + 60°C | -30°C + 60 °C |
| Pressure             | ≤150 bar                 | ≤150 bar    | ≤150 bar      |
| Speed                | ≤0,5 m/s                 | ≤0,5 m/s    | ≤0,5 m/s      |

Note: The above data are maximum values, they may only be maintained for short periods of time and cannot be used at the same time simultaneously.

| Surface roughness |         |         |
|-------------------|---------|---------|
|                   | Ra      | Rmax    |
| Sliding Surface   | ≤0,4 µm | ≤3,2 µm |
| Groove Base       | ≤1,6 µm | ≤10 µm  |
| Groove Flanks     | ≤3,2 µm | ≤16 µm  |

| Maximum permissible sealing gap - S (mm) |        |         |         |
|------------------------------------------|--------|---------|---------|
| Cross-section = [D-d]/2                  | 50 bar | 100 bar | 150 bar |
| ≤5                                       | 0,40   | 0,20    | 0,10    |
| >5                                       | 0,45   | 0,25    | 0,15    |

Note: The largest sealing gap value occurring on the non-pressurized side of the seal does have a vital importance for the function of the seal and in this respect it is very important to use an S value lower than the above indicated numbers.

| Hardware tolerances |                         |     |            |
|---------------------|-------------------------|-----|------------|
| Dimension           | Ød                      | ØD  | L          |
| Tolerance           | f7 (rod) / h11 (piston) | H10 | +0,2/-0 mm |

| Internal diameter<br>mm | Outer diameter<br>mm | Groove width<br>mm | Seal height<br>mm | Temperature range<br>°C | Article  |
|-------------------------|----------------------|--------------------|-------------------|-------------------------|----------|
| 8                       | 16                   | 9                  | 8                 | -30 / 105               | 10018096 |
| 10                      | 20                   | 9                  | 8                 | -30 / 105               | 10018167 |

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| Internal diameter | Outer diameter | Groove width | Seal height | Temperature range | Article  |
|-------------------|----------------|--------------|-------------|-------------------|----------|
| mm                | mm             | mm           | mm          | °C                |          |
| 10                | 22             | 9            | 8           | -30 / 105         | 10018168 |
| 12                | 20             | 6            | 5           | -30 / 105         | 14015907 |
| 15                | 25             | 6            | 5           | -30 / 105         | 11187116 |
| 15                | 25             | 9            | 8           | -30 / 105         | 10018169 |
| 16                | 26             | 9            | 8           | -30 / 105         | 10018170 |
| 18                | 24             | 4.5          | 4           | -30 / 105         | 11363028 |
| 18                | 28             | 9            | 8           | -30 / 105         | 10018171 |
| 20                | 30             | 9            | 8           | -30 / 105         | 10018172 |
| 20                | 35             | 11           | 10          | -30 / 105         | 10018270 |
| 25                | 40             | 11           | 10          | -30 / 105         | 10018272 |
| 30                | 42             | 11           | 10          | -30 / 105         | 10018274 |
| 30                | 45             | 11           | 10          | -30 / 105         | 10018273 |
| 30                | 50             | 11           | 10          | -30 / 105         | 10018275 |
| 32                | 40             | 6            | 5           | -30 / 105         | 11609350 |
| 35                | 45             | 7            | 6           | -30 / 105         | 11329902 |
| 35                | 50             | 11           | 10          | -30 / 105         | 10018276 |
| 35                | 55             | 11           | 10          | -30 / 105         | 10018277 |
| 40                | 55             | 11           | 10          | -30 / 105         | 10018278 |
| 40                | 60             | 11           | 10          | -30 / 105         | 10018279 |
| 45                | 60             | 11           | 10          | -30 / 105         | 10018280 |
| 60                | 80             | 13           | 12          | -30 / 105         | 10018282 |
| 70                | 90             | 13           | 12          | -30 / 105         | 10018283 |
| 75                | 100            | 16           | 15          | -30 / 105         | 14411103 |
| 80                | 100            | 13           | 12          | -30 / 105         | 10018466 |
| 100               | 120            | 16           | 15          | -30 / 105         | 10018567 |
| 100               | 125            | 16           | 15          | -30 / 105         | 10018509 |
| 150               | 180            | 19           | 18          | -30 / 105         | 10018510 |
|                   |                |              |             |                   | 10018271 |

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