

example

# OI-007735-3.18M-3/0-1-S50

## Seal Type

- OI:** Internal pressure, no venting
- OVI:** Internal pressure, O Ring vented, system pressure energised
- OSI:** Internal pressure, O Ring spring energised, as of section 3,96
- OGL:** Internal pressure, O Ring gas filled

## Cross Section

Select the proper cross section or axial section (AS) in the table, then select the material code "L, M or H" based on the desired wall thickness.

## Treatment

**1:** Work hardened

See Tab on the last page →

## Seal Diameter (DSO)

**007735** = 77,35 mm, for groove diameter 77,88

The seal diameter is always the outside diameter without plating.

The diameter is calculated as follows:

Nominal outside groove diameter, DG, minus clearance or DC (in the table on the left page) minus 2 times the maximum plating or coating thickness.

or

$$DSO = DG - DC - (\text{Plating thickness} \times 2)$$

See also figure on the left page, below

$$DSO = 77,88 - 0,43 - 2 \times 0,05 = 77,35 \text{ mm}$$

## Plating

Plating Code "S"

= Silver Plating

Plating Thickness "50"

= 30 to 50 Microns

See Tab on the last page →

## Material

The first digit designates the O Ring material, the second the spring material, in case an OSI type is selected.

| Available Materials & Codes        |             |        |               |
|------------------------------------|-------------|--------|---------------|
| Jacket                             |             | Spring |               |
| Code                               | Material    | Code   | Material      |
| 1                                  | Alloy X-750 | 0      | None          |
| 3                                  | 321 SS      | 1      | Alloy X-750 * |
| 4                                  | Alloy 600   | 2      | Alloy 718     |
|                                    |             | 9      | 302 SS        |
| (*) X-750 will become obsolete     |             |        |               |
| Other materials on special request |             |        |               |