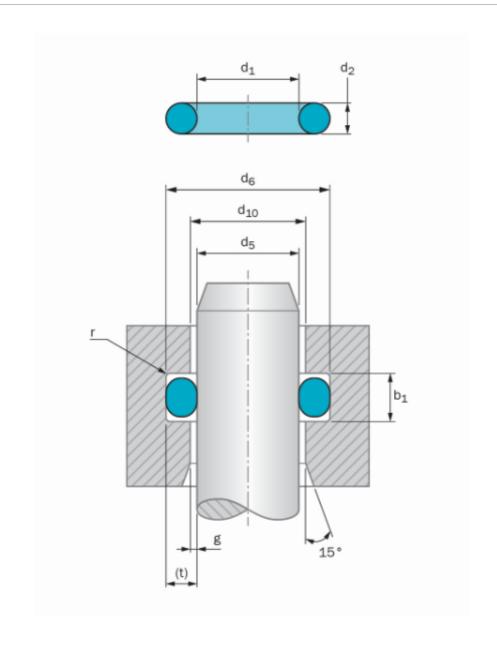


Radial Inner Sealing (dynamic)

| Input (in.) | | Nominal Size | Standard/Fit | Lower Tolerance Limit (73°F) | Upper Tolerance Limit (73°F) | Min. Dimension (73°F) | Max. Dimension (73°F) |
|--------------------|-----------------|--------------|--------------|---------------------------------|---------------------------------|--------------------------|-----------------------|
| Bore-Ø | d ₁₀ | 0.1260 | H8* | 0.0000 | 0.0007 | 0.1260 | 0.1267 |
| Rod-Ø | d_5 | 0.1250 | f7* | -0.0009 | -0.0004 | 0.1241 | 0.1246 |
| Groove-Ø | d ₆ | 0.2350 | H9* | 0.0000 | 0.0012 | 0.2350 | 0.2362 |
| Groove Width | b ₁ | 0.1500 | recom. | 0.0000 | 0.0098 | 0.1500 | 0.1598 |
| Groove Radius | r | 0.0118 | recom. | -0.0039 | 0.0039 | 0.0079 | 0.0157 |
| O-Ring Inside-Ø | d ₁ | 0.114 | ISO | -0.005 | 0.005 | 0.109 | 0.119 |
| OR Cross-Section-Ø | d_2 | 0.070 | ISO | -0.003 | 0.003 | 0.067 | 0.073 |

| Temperature | ٥F | 73 | Linear Thermal Expansion Coefficient 10-6 K-1 | 0 |
|-----------------------|----|----|---|---|
| O-Ring Material Group | | | O-Ring Material Hardness (IRHD) | |



Version 5.1

ISO = in accordance with ISO 3601-1 Class B

R = Reduction in cross section due to elongation

OR = O-Ring

t = Radial Housing Depth (incl. gap)

* = in accordance with ISO 286-2

| Calculation Results | Concent Min. | ric Position Max. | | Eccentric Min. | Position Max. |
|----------------------------------|-----------------|----------------------|---------------------------|---------------------|------------------|
| | IVIII I. | IVIAX. | | IVIIII. | IVIAX. |
| Compression incl. R (%) | 9.05 | 22.03 | Compression incl. R (%) | 6.96 | 23.52 |
| Compression incl. R (in.) | 0.006 | 0.016 | Compression incl. R (in.) | 0.004 | 0.017 |
| Gap g (in.) | 0.0007 | 0.0013 | Gap g (in.) | | 0.0026 |
| Housing Fill (%) | 38.63 | 55.07 | Selected O-Ring | - | - |
| Stretch OR Inside-Ø (%) | 4.31 | 14.32 | TSS Part No: | | ORAR00006 |
| R (%) | 3.02 | 8.06 | | | |
| OR Cross-Section-Ø incl. R (in.) | 0.062 | 0.071 | | | |
| t (in.) | 0.055 | 0.056 | | | |
| Compression OR Outside-Ø (%) | 2.81 | 11.32 | | | |
| Total Compression Force (N) | - | - | | | |

Warning Messages

- 1. Circumferential compression at the OR Outside-Ø > 5%
- 2. Stretch > 6%

| M | V | N | O | tes |
|---|---|---|---|-----|
| | J | | _ | |

Disclaimer

Trelleborg Sealing Solutions products have diverse application uses. The utilization, selection and designation of any specific Trelleborg Sealing Solutions product in any specific application is the sole responsibility of the O-Ring calculation program user, customer and/or purchaser. Trelleborg Sealing Solutions is not obliged to the user of the O-Ring calculation program, customer and/or purchaser to provide any consultation in conjunction with or as a result thereof.

Any measurements, values and/or dimensions obtained through the O-Ring calculation program are guidelines only and as such are intended for orientation purposes only with the sole function to ease the selection of a possible Trelleborg Sealing Solutions product that may be suitable for the use in a particular application. Any Trelleborg Sealing Solutions product ascertained as a result of using data obtained through the O-Ring calculation program for use in a specific application must be assayed by the O-Ring calculation program end user, customer and/or purchaser through the appropriate test methods in order to ensure product suitability. Media contact, operating temperature and assembly conditions can result in significant divergences from the calculated values.

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Recommendations in accordance with ISO 3601-2

Cross-sectional Compression radial inner/outer sealing, static: 10-35% radial inner/outer sealing, dynamic: 6-27% Axial sealing, static: 13-36% Stretch OR inside -Ø radial inner/outer sealing, static: 2 - 8% (min. 0.5% /max. 9%) radial inner/outer sealing, dynamic: 2 - 5% (min. 0.5% /max. 6%) Axial sealing: max. 3%

Compression OR outside-Ø

(radial inner sealing, only) for OR Inside- \varnothing > 250mm (9.843 in.): max. 3% OR-Innen- \varnothing ≤ 250mm (9.843 in.): max. 5% Axial sealing: max. 2%

max. 85%

Recommendations for FFKM O-Rings

Cross - sectional Compression: 12-18%
Stretch OR Inside-Ø-: max. 3%

Contact

Housing fill:

Please find your local TSS contact here