

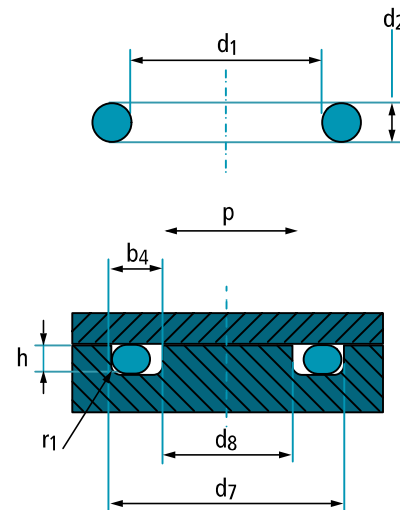
Load Axial Sealing

Calculation Result

Squeeze	min	=	18.89	[%]
	max	=	24.95	[%]
Squeeze	min	=	0.92	[mm]
	max	=	1.28	[mm]
Groove Fill	min	=	70.94	[%]
	max	=	86.68	[%]
Elongation OR Inside-Ø	min	=	1.97	[%]
	max	=	3.30	[%]
Compression OR Outside- Ø	min	=	no	[%]
	max	=	no	[%]
Groove Width	b ₄ min	=	6.20	[mm]
	b ₄ max	=	6.51	[mm]

Note:

O-ring calculation for main flange pressure seal using Trelleborg O-ring calculation software v4.0 "layer_en_metric"



Recommended squeeze

"static applications": 15-30%

Recommended squeeze

"FFKM O-Rings": 12-18%

Recommended groove fill: max. 85%

Recommended elongation

OR inside-Ø: max. 3%

Recommendend compression

O-Ring outside-Ø: max. 3%

Load Axial Sealing

Input	[mm]	Norm/Fit	Lower Tolerance [mm]	Upper Tolerance [mm]
Groove Outside-Ø	1377.600	opt.	0.000	0.250
d7 min =	1377.600			
d7 max=	1377.850			
Groove Inside-Ø	1365.200	opt.	-0.380	0.000
d8 min =	1364.820			
d8 max=	1365.200			
Groove Depth	3.900	rec.	-0.05	0.05
h min =	3.850			
h max=	3.950			
Groove Radius	1.000	rec.	-0.100	0.100
r1 min =	0.900			
r1 max=	1.100			
O-Ring Inside-Ø	1330.000	ISO	-8.46	8.46
d1 min =	1321.540			
d1 max=	1338.460			
O-Ring Cross Section-Ø	5.000	ISO	-0.13	0.13
d2 min =	4.870			
d2 max=	5.130			
Temperature °C			23	
O-Ring Material			HNBR	
Linear Thermal Expansion Coefficient 10 ⁻⁶ K ⁻¹			175	

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