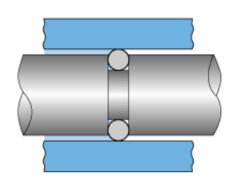
know-how makes the difference | o-ring.info | o-ring design



Piston - groove dimensions		+	-	
material	Alı	ıminium		
free groove volume at inst (%)	20			
bore diameter (mm)	50.80	0.046	0	H8
piston diameter (mm)	50.80	-0.03	-0.06	f7
groove diameter (mm)	46.00	0	-0.062	h9
groove width (mm)	4.04	0.2	0su	ıggestion
radius (mm)	0.2			
inner diameter stretch at inst (%)	0			

Application	
Sealing principle	Piston
design	Design Groove
temperature (°C)	21
movement	static
pressure	over pressure
compression (%)	20

O-Ring		±	
compound	NBR		
chemical volume swell (%)	0		
inner diameter (mm)	50	0.48	ISO 3601
cross section diameter (mm)	3	0.1	ISO 3601

Results at Installation	min.	nom.	max.
Calculated Values at Centrical Position of Piston:			
O-Ring Compression (%)	15.38	20.00	22.58
Free Groove Volume (%)	13.64	20.00	31.10
O-Ring Inner Diameter Stretch (%)	- 9.00	- 8.00	- 7.11
Results at Service	min.	nom.	max.
Calculated Values at Centrical Position of Piston:			
O-Ring Compression (%)	15.38	20.00	22.58
Free Groove Volume (%)	13.64	20.00	31.10
O-Ring Inner Diameter Stretch (%)	- 9.00	- 8.00	- 7.11
Groove Depth incl. Gap (mm)	2.40	2.40	2.45
Sealing Gap (mm)	0.02	0.00	0.05
Calculated Values at Excentrical Position of Piston:			
O-Ring Compression (%)	13.55		23.55
Groove Depth incl. Gap (mm)	2.37		2.51
Sealing Gap (mm)	0.00		0.11

Comments

Results at Installation

Results at Service

Disclaimer

This information is, to the best of our knowledge, accurate and reliable to the date indicated. The above mentioned data have been obtained by tests we consider as reliable. We don't assure that the same results can be obtained in other laboratories, using different conditions by the preparation and evaluation of the samples.