



Piston - groove dimensions		+		-
material	Aluminium			
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	0suggestion	
radius (mm)	0.2			
inner diameter stretch at inst (%)	0			

Application		O-Ring	±	
Sealing principle	Piston	compound	NBR	
design	Design Groove	chemical volume swell (%)	0	
temperature (°C)	21	inner diameter (mm)	50	0.48 ISO 3601
movement	static	cross section diameter (mm)	3	0.1 ISO 3601
pressure	over pressure			
compression (%)	20			

Results at Installation	min.	nom.	max.
Calculated Values at Central 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 Central 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.