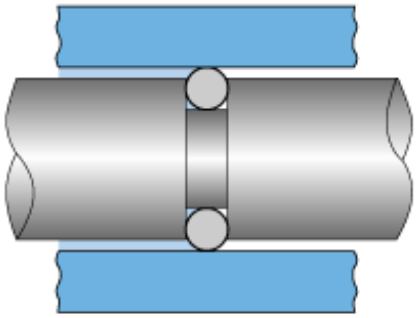

Piston - groove dimensions		+	-	
material	Steel (Ck45 etc.)			
bore diameter (mm)	5.00	0.018	0	H8
piston diameter (mm)	4.90	-0.01	-0.022	f7
groove diameter (mm)	4.30	0	-0.03	h9
groove width (mm)	1.00	0.2	0	suggestion
radius (mm)	0.2			

Application	
Sealing principle	Piston
design	Design. O-Ring & Groove
temperature (ºC)	21

O-Ring		±	
compound	FKM / Viton®		
chemical volume swell (%)	0		
inner diameter (mm)	4.29	0.15	ISO 3601
cross section diameter (mm)	0.5	0.08	ISO 3601

Results at Service	min.	nom.	max.
Calculated Values at Centrical Position of Piston:			
O-Ring Compression (%)	7.00	29.52	39.66
Free Groove Volume (%)	14.30	39.23	68.48
O-Ring Inner Diameter Stretch (%)	- 3.83	0.23	3.86
Groove Depth incl. Gap (mm)	0.35	0.35	0.37
Sealing Gap (mm)	0.05	0.05	0.07
Calculated Values at Excentrical Position of Piston:			
O-Ring Compression (%)	- 10.40		50.17
Groove Depth incl. Gap (mm)	0.29		0.44
Sealing Gap (mm)	0.00		0.14

Comments

Results at Service

Caution, excessive compression may result in high compression set and possible splitting of parts