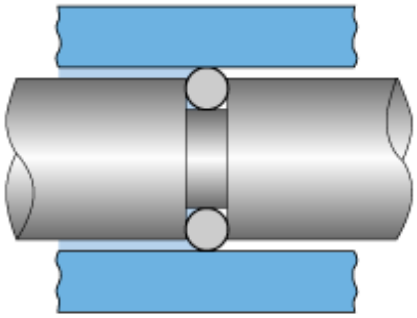

Piston - groove dimensions		+	-	
material	Aluminium			
free groove volume at inst (%)	20			
bore diameter (mm)	50.80	0.046	0	H8
piston diameter (mm)	50.80	-0.03	-0.06	f7
groove diameter (mm)	46.00	0	-0.062	h9
groove width (mm)	4.04	0.2	0	suggestion
radius (mm)	0.2			
inner diameter stretch at inst (%)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

Application	
Sealing principle	Piston
design	Design Groove
temperature (ºC)	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