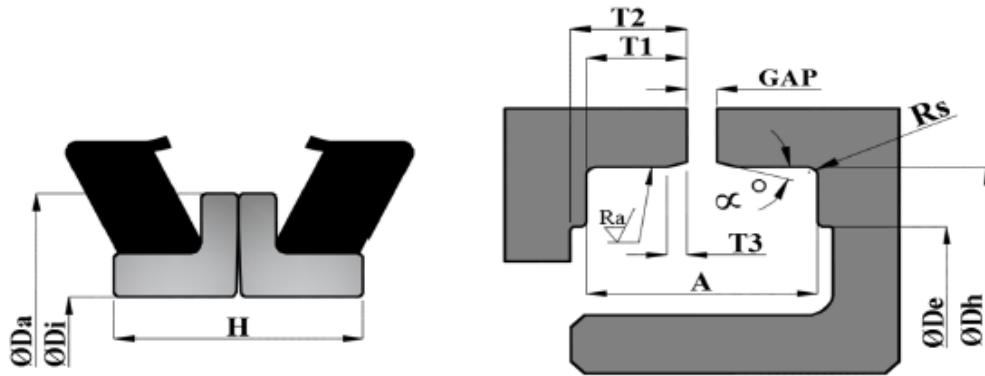




1 Basic Dimensions of the Mechanical Face Seal and Seal Housing Cavity

1.1	Parameters	Description : Mechanical Face Seal	Value
1	Da	Outside Diameter	: $\varnothing 138.0 \pm 0.75$
2	Di	Inside Diameter	: $\varnothing 114.0 \pm 0.75$
3	H	Seal Ring Height	: 26.0 ± 1.0
1.2	Parameters	Description : Seal Cavity	Value
1	Dh	Installation Diameter	: $\varnothing 148.0 \pm 0.1$
2	De	Diameter of Shoulder	: $\varnothing 126.0 \pm 0.1$
3	α	Chamfer Angle	: 15°
4	T1	Housing Depth	: 12.0 ± 0.1
5	T2	Depth of Shoulder	: 13.0 ± 0.1
6	T3	Chamfer Distance	: 1.0
7	Rs	Shoulder Radius	: 1.0
8	Ra	Track Roughness	: 3.75 - 6.25
9	Gap	Clearance Gap	: 4.0 ± 0.5
10	A	Compression Gap	: 28.0

2 Technological Data of the Mechanical Face Seal.

2.1	Metal Face Seal	
1	Basic material	: SAE 52100/100Cr6 Grade Alloy Steel
2	Hardness	: 62±3 HRC
3	Seal External Coating (Except Active Surface)	: Manganese Phosphate
4	Quenched & Tensile Strength (Rm)	: 2300 MPa Min.
	Tempered Yield Strength (Rp0.2)	: 1700 MPa Min.
	Elongation A (%)	: 2 Min.
5	Modulus of Elasticity	: 190 -210 GPa
6	Density	: 7.81 g/cm ³
7	Reference Chemical composition	
	Element	: %
	C	: 0.93-1.05
	Si	: 0.15-0.35
	Mn	: 0.25-0.45
	Cr	: 1.35-1.60
	Ni	: 0.25
	Cu	: 0.30
	Mo	: 0.10
	Al	: 0.05
	Sn	: 0.03
	As	: 0.04
	Pb	: 0.002

3 Technological Data of T-Ring.

A	Description	
1	Inside Diameter of O-Ring	: Ø123.5
2	Cross Sectional Diameter of T-Ring (B*H)	: 11.0 X 13.5
3	Material of T-Ring	: NBR
B	Basic characteristics :	
1	Hardness shore (A)	: 55-65
2	Low Temperature Limit	: -35°C
3	High Temperature Limit	: +120°C
4	Tensile Strength (kg/cm ²)	: 100 min.
5	Ultimate elongation (%)	: 200 min.
6	Specific Gravity (g/cc)	: 1.16