Technical Specification for SPRING ENERGISED SEALS

S.No.	Specification	Requirements		
1.	Minimum pressure	Vacuum (10 ⁻² mbar level)		
2.	Max. temperature	350 K		
3.	Min. temperature	70 K (-203 °C)		
4.	Required Flange leak tightness	≤ 1 x 10 ⁻⁶ mbar. l/s with GHe		
5.	Seal material	Inconel 718 (Jacket + Spring)		
6.	Coating (Jacket)	Silver		
7.	Seal Groove dimensions	Refer Table-1		
8.	Depth of groove	Refer Table-1		
9.	Type of joint	Static joint		
10.	Working medium	Liquid oxygen / Gaseous oxygen		
11.	Maximum working pressure of the seal/joint.	Refer table -1 for MAWP		

Table 1: SPECIFICATION OF SPRING ENERGIZED SEALS

S.No.	Dimensions of the groove							
	Outer diameter of the groove (mm)	Inner diameter of the groove (mm)	Depth of the groove (mm)	Surface finish (microns)	Flange size	MAWP (MPa)	Flange material	QTY (Nos.)
1.	313	291	3	0.8	Non Std	3.5	SS321	6
	Refer Figure-1 below for details				Non Std	3.3	33321	0

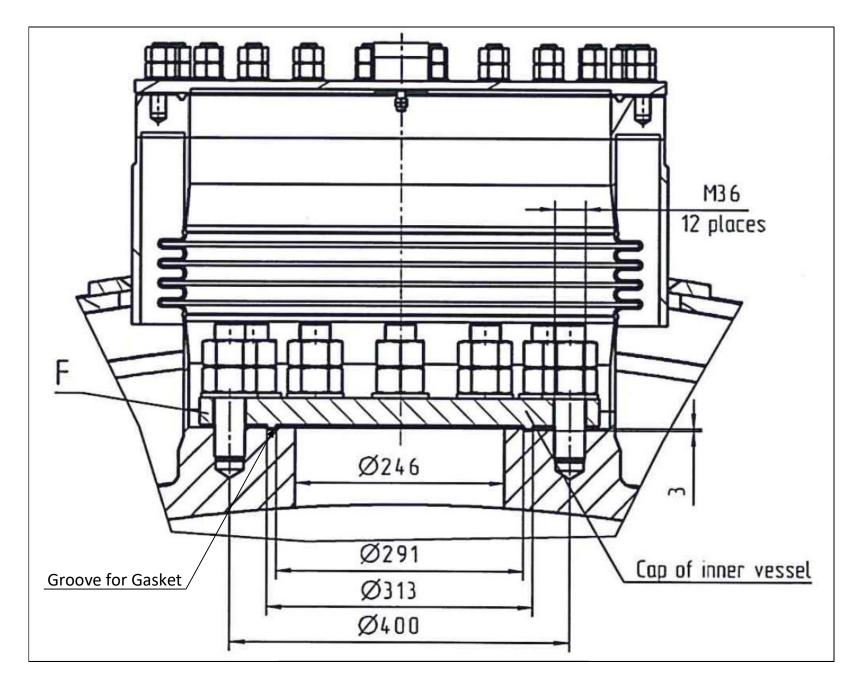


Figure-1