

SPRING ENERGISED SEALS

Technical Specification

S.No.	Specification	Requirements
1.	Minimum pressure	Vacuum
2.	Max. temperature	350 K
3.	Min. temperature	15 K (-258 °C)
4.	Flange leak tightness	$\leq 1 \times 10^{-6}$ 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 hydrogen/Liquid oxygen/Liquid Methane/Gaseous oxygen/ Gaseous hydrogen/Gaseous Methane
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			Surface finish (microns)	Flange size	MAWP (MPa)	Flange material	QTY (Nos.)
	Outer diameter of the groove (mm)	Inner diameter of the groove (mm)	Depth of the groove (mm)					
1.	58.2	50	2.6	0.8	DN 50	22	SS304L	10