



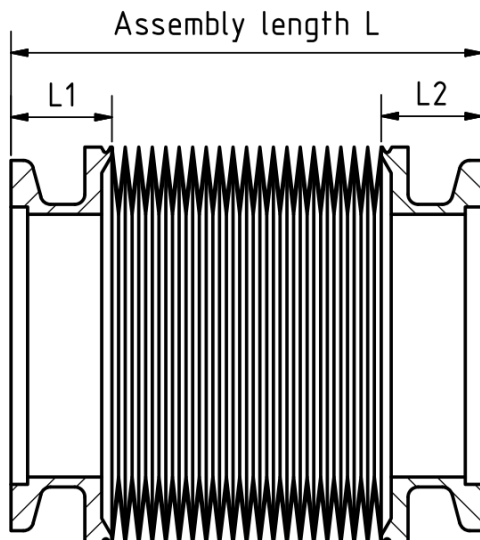
Edge welded bellow data sheet

Part name: KF40EWB-80

Part number: 411578

date: 01.11.2016

Geometric dimensions			Technical specifications		
Inner diameter	[mm]	39	Vacuum side	Inside	
Outer diameter	[mm]	59	Helium leak rate	[mbar·l/s]	1·10 ⁻⁹
Assembly length L min	[mm]	50	Operating temperature	[°C]	20
Assembly length L max	[mm]	130	Bakeout temperature	[°C]	80
Axial stroke	[mm]	80	Total weight	[g]	127
Number of convolutions		40	Spring constant axial	[N/mm]	1.53
End piece length L1	[mm]	15	Tensile force axial*	[N]	31
End piece length L2	[mm]	15	Resulting force axial**	[N]	227
Materials			* required force to pull to maximum assembly length		
bellow	316L		** required force to hold on maximum assembly length during evacuation of the inner volume		
End pieces/ Flanges	316L		Number of cycles	10'000	



Important note:

Number of cycles is describing the maximum number of strokes during the life time. Improper installation or use of the bellows out of specifications result in a reduction of life time. Please avoid especially any torsional load and pollution with particles