



FLEXIBLE HOSES

Our stainless steel flexible hose assemblies are manufactured to help you to maintain the highest standards of hygiene in the vacuum industry.

Overview

Adelphi's range of corrugated hose assemblies, supplied into the vacuum industry, are designed to provide leak tight connections to convey gases under vacuum. In addition they offer a solution for misalignment, reduce vibration, and absorb thermal expansion.

All hoses and fittings are 316L grade and material tested by Adelphi using our X-Ray material testing machine to ensure the high standards required with this product are consistent and present. The KF hoses can be made to any length required.

Process

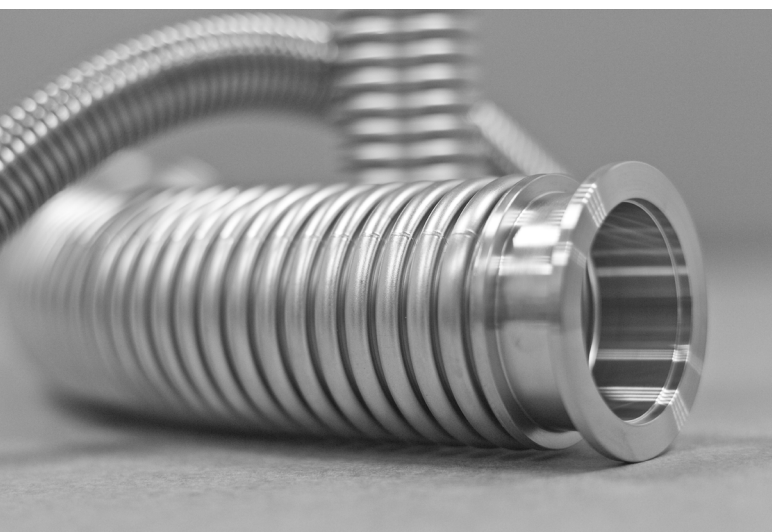
These hose assemblies are manufactured by hydro-forming, as opposed to the mechanical forming method. This process involves water pressure being raised inside a longitudinally welded tube and forced into dies. This method guarantees consistency in the convolution form, eliminates film residue, and is therefore a much cleaner method.



Before dispatch all of our hose assemblies are tested using a Oerlikon L300i helium mass spectrometer and reach a detectable leak rate of 10^{-9} mbar l/sec. This ensures weld integrity and defect-free construction.

Dependent on hose diameter, working temperatures range from -273°C to +600°C.

The end fittings to our hoses are machined to very fine tolerances and adhere to surface roughness requirements for their mating faces.



Item Code	Length (mm)	Grade
VCH600**-0300	300	316L
VCH600**-0500	500	316L
VCH600**-0800	800	316L
VCH600**-1000	1000	316L
VCH600**-1200	1200	316L
VCH600**-1500	1500	316L
VCH600**-1800	1800	316L
VCH600**-2000	2000	316L
VCH600**-2500	2500	316L
VCH600**-2800	2800	316L
VCH600**-3000	3000	316L

Notes:

In the data table, replace the ** with 16, 25 or 40 dependent on whether DN16, DN25 or DN40 Klein Flange Range is required.