



# 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

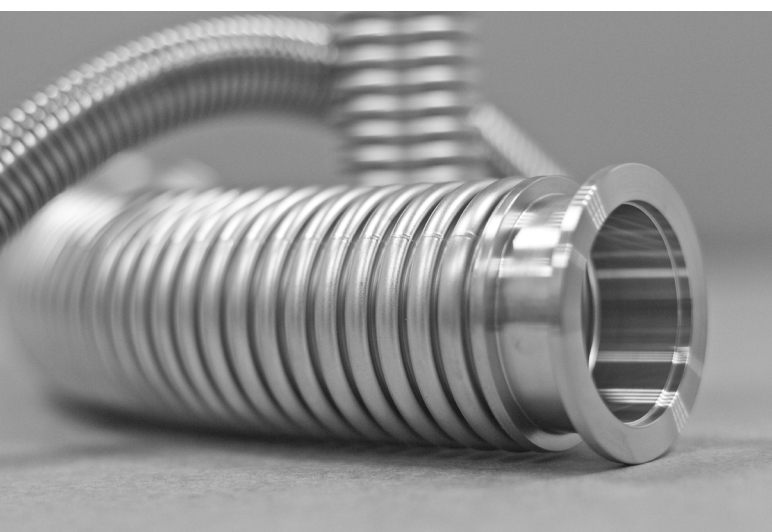
These hose assemblies are manufactured by hydro-forming, as opposed to the mechanical forming method. This process involves water pressure being raised inside a longitudinally welded tube and forced into dies. This method guarantees consistency in the convolution form, eliminates film residue, and is 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  $-273^{\circ}\text{C}$  to  $+600^{\circ}\text{C}$ .

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.