



CRYOGENIC PRODUCTS & SERVICES

Design

Installation

Service

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THAMES CRYOGENICS LTD

Total Cryogenic Solutions



NON-VACUUM INSULATED FLEXIBLE HOSES

Non-Vacuum Insulated Flexible Hoses are actually just conventional stainless steel flexible hoses suitable for transferring cryogenic fluids, but we use the non prefix to differentiate them from VI hoses. Whilst they significantly less thermally efficient than VI hoses, they are widely used in end use applications, particularly decanting. Lengths should typically be short but can be made with almost any end fitting you require.

Key Features

-  Made to order in any length you require.
-  Braided stainless outer – gives superior durability. (Griplock outer also available)
-  Wide choice of end fittings available to suit every installation.
-  Good bend radius even when cold, makes awkward installations more manageable.
-  Can be supplied with conventional insulation if required..
-  Small outer diameter in comparison to VI flexible hoses.
-  Large choice of diameters to suit all flow requirements

Applications

Non-vacuum insulated flexible hoses are made entirely of austenitic stainless steel.

Typically they are used where the requirement to reduce heat inleak over a short distance doesn't require vacuum insulation. Connections to cryogenic freezers, dewar filling or ISIS systems are all good examples of installations that are well suited to NV flexible hoses.

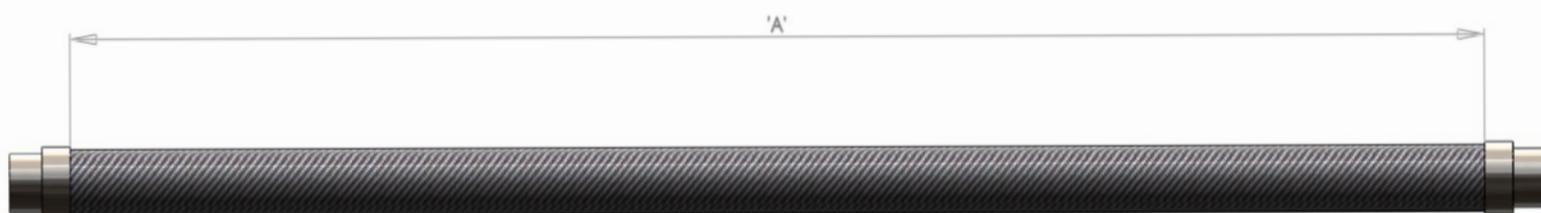
Decant hoses (see separate datasheet) are also typically non-vacuum insulated hoses.

Piping away relief valves or hot gas bypass valves into exhaust piping is also often done with a n NV flexible hose.

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Size (NB)	Size (DN)	Outer Diam (mm)	Bend Radius	Flow Rate (L/m)
3/8"	DN10	22.23	150	0-175
1/2"	DN12	26.67	165	100-300
3/4"	DN20	33.4	225	300-600
1"	DN25	41.28	260	600-1200
1 1/4"	DN32	50.8	300	1200-1800
1 1/2"	DN40	60.33	340	1800-2600
2"	DN50	70	390	2300-3500

Flexible Hose Lengths

When asking for a quote for a flexible hose please specify a dimension for 'A'. End fittings can be added up on request. (See separate end fittings drawing under downloads)

If you require a size not listed here please contact us.

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