STAINLESS STEEL FLEXIBLE HOSE ASSEMBLIES
Since 1987, Interflex Hose & Bellows Ltd. has specialised in the manufacture of flexible stainless steel hose assemblies, and has established a name for quick, reliable service with competitive pricing, and an emphasis on high quality.

Our sales office, based at our Shropshire factory, will be pleased to offer you, from initial design through to installation, the expertise that members of our team have gained from being in this field for many years, whatever the inquiry.

APPLICATIONS

The success of the flexible metallic hose assembly may be attributed to the fact that there is a hose suitable for almost any application. Interflex manufacture and supply a comprehensive range of corrugated stainless steel hose products covering a wide range of uses - whatever the requirements of flexibility, media, environment, temperature or pressure.

In fact, wherever you require a hose for vibration, misalignment, lateral movement, protection, thermal expansion, or corrosive or caustic chemicals, we are confident that we can provide an assembly that is designed to cope with your operating conditions with utmost reliability, however arduous or demanding.

ADVANTAGES

- Vacuum proof
- Long-lasting
- Flexible
- Corrosion resistant
- Fire resistant
- High physical strength
- Resistant to penetration and damage
- High safety factor
- Excellent at temperature & pressure extremes
QUALITY

Paramount importance is given by Interflex Hose & Bellows to the quality of our product and service, and our ability to meet precise customer specifications. Our commitment to the highest possible standards means that all Interflex assemblies can be supplied, when requested, with the following documentation:

- Material Test Certification (including to DIN 50 049 3.1B).
- Hydraulic Pressure Test Certificates (normally to 1.5 times the design pressure).
- Certificates of Conformity.
- Certificates of Origin.
- Technical Drawings.

All our assemblies are manufactured generally in conformance with BS6501 Pt.1, and with quality assurance in line with BS5750. We can supply complete hose assemblies specified as requiring quality assurance to BS689, ISO9001, MOD DEFGSTAN 05-91, Lloyd's standards, etc.

Where normal industrial standards for testing and cleaning are not acceptable, Interflex offer special procedures, including packaging, to ensure the quality and cleanliness of the assembly is retained.

Additionally, our hose assemblies can be permanently etched with any required information.

CONSTRUCTION

Standard Interflex hose assemblies are made from annularly corrugated medium pressure (BS6501 Pt.1 type 'B') tube, in AISI 321 stainless steel to BS1449 Pt.2, & with outer braiding in AISI 304 stainless steel to BS1554

When required, tube and braid can be supplied in alternative materials such as AISI 316 stainless steel, bronze, monel, etc.

General construction is of the convoluted tube, with a single or double layer of braiding to suit pressure requirements, and welded - or brazed - on end fittings.

DERATING FACTORS

<table>
<thead>
<tr>
<th>Operating Temperature °C</th>
<th>321 Stainless Steel</th>
<th>316 Stainless Steel</th>
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<tr>
<td>-200 to 50</td>
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</tr>
<tr>
<td>600</td>
<td>.44</td>
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</tbody>
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COVERINGS & LININGS

Interflex hose assemblies are offered with a number of options, such as internal PTFE or strip-wound linings; and external covers such as thermal insulating glass fibre sleeving; protective coil springs; strip-wound covers or heat-shrink sleeving - for where protection from abrasion or chemicals, or where cleanliness or insulation is required.

PRESSURES

Depending upon construction, size and temperature, our hoses will operate from full vacuum up to 3700 psi. For stainless steel hose, please see our main table. Higher pressure ratings can be offered upon request.

SIZES

Available in a range of sizes, from 6 mm (1/4") NB to 250 mm (10") NB. Larger sizes are available upon request.

TEMPERATURE RANGE

Depending on construction, suitable throughout sub-zero temperatures, & up to +600 °C. For hoses operating above +50 °C, the maximum working pressure must be multiplied by a temperature correcting factor.

The derating factors for stainless steel tube are shown left.
MOBEMENT
Braided hoses will only accept lateral movement according to the following formula (not for vibration):

\[ L = \sqrt{A \times R \times M} \]

- \( A = 10 \) for static offset
- \( 20 \) for constant flexing
- \( R = \) minimum bend radius
  (i.e. excluding end fittings & ferrules)
- \( M = \) movement (small only)

TYPICAL USES
- Water and steam lines
- Pumps and compressors
- Exhaust gases
- Lub. oils
- Food processing
- Solvents, resins and corrosive media
- Cable protection
- Fuels and gas
- Tank settlement
- Suction lines

INDUSTRIES
- Cryogenics and refrigeration
- Marine
- Iron and steel
- Power generation
- Defence
- Agro- and Petro-chemical
- Heating and ventilation
- Paper and pulp
- Combustion
- Automotive
- General process

END FITTINGS
Interflex offer a full range of flanges, screwed connectors, elbows, quick release couplings, and plain tube ends, plus any kind of special fitting can be manufactured. Materials include carbon steel, all grades of stainless steel, brass, copper, and nickel alloys. **Typical end fittings are shown below.**

Screwed fittings - generally threaded BSP(T), but NPT, UNF and other threads available.

Flanges - to BS10, BS4504, ANSI / ASA, DIN and JIS standards, or as required.

SWIVEL FLANGE

STANDPIPE / PIPE END

FIXED FLANGE

FIXED HEXAGON MALE

HALF BARREL MALE (WELD NIPPLE)

SWIVEL FEMALE (NUT + NIPPLE)

[CONNE SEAT OR FLAT FACE]

CUSTOMERS
Our customers are found worldwide, from France and Eire in Europe, and from the Middle East to the Far-East.

They have included the Ministry of Defence, GEC, National Power, ESSO... even Harrods!

OTHER PRODUCTS
- Sole UK & Eire Agent of MERCER RUBBER Co. Rubber Expansion Joints
  - Stainless steel expansion joints
  - PTFE hoses and bellows
  - Galvanised and stainless steel stripround
  - Vibration eliminators
  - Fabric expansion joints
  - Custom-built rubber hose assemblies
  - Gas cooker hoses
  - Composite and thermoplastic hoses
  - Flexible ducting
  - Conduit & stayput hoses
  - Pump connectors
  - Flexible exhaust assemblies
  - Jacketed hose assemblies

INTERFLEX HOSE & BELLOWS LTD.
Ludlow Business Park, Ludlow, Shropshire, SY8 1XH.
TEL: (01584) 878900 FAX: (01584) 876115

Important Note: Please note that the information is to the best of our knowledge, true and accurate. We reserve the right to alter the specifications without notice. Since conditions under which the products maybe used are beyond our control, our recommendations are made without warranty or guarantee and we cannot be held responsible for misuse of products or information.