

HOSES

Metallic, Composite, Rubber, PTFE and FDA Approved Flexible Hose Assemblies/Bellows. Management, Testing and Inspection Services.



FLEXITALLIC

THE FLEXITALLIC GROUP IS THE INTERNATIONAL MARKET LEADER IN THE MANUFACTURE AND SUPPLY OF HIGH QUALITY, HIGH VALUE INDUSTRIAL STATIC SEALING PRODUCTS.

We strive to achieve our mission by providing best-in-class sealing solutions that allow our customers to operate their plants, complete projects, and start up from turnarounds safely and efficiently. Our goal is to help customers achieve leak free startup and operation within the scheduled maintenance cycle.

Over the decades, Flexitallic has built on its legacy of innovation, starting with the spiral wound gasket in 1912 and continuing with new products and materials such as Thermiculite®, Sigma®, Change™ Gasket and more recently Corriculite®, our tightest sealing material, which is set to transform the global sealing industry.

By drawing upon our rich history and present day values of safety, quality, continuous improvement, teamwork, integrity and performance, Flexitallic remains at the forefront of developing sealing solutions for industries around the world.

The Flexitallic reach extends around the world with a global customer service network of fully-owned manufacturing facilities and manufacturing licensees. The worldwide network of Flexitallic distributors can quickly meet local demand, providing a combination of the highest product quality and outstanding customer service. Our teams of application engineers work with customers on a daily basis to solve problems and develop solutions specifically tailored to the customer's needs.



HOSES

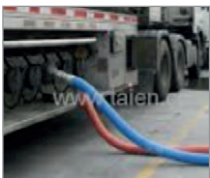
WITH OVER 60 YEARS COMBINED EXPERTISE WITHIN THE HOSE INDUSTRY, THE FLEXITALLIC HOSE DIVISION ARE ABLE TO SUPPORT ALL TYPES OF BESPOKE AND STANDARD FLEXIBLE HOSE ASSEMBLIES.

Stocks are held at our branches, to support customers throughout the UK. Focused manufacturing is available through our Ellesmere Port branch, with assembly work available through our UK branch network, to ensure urgent enquiries are met.

Experienced engineers can conduct site visits, if required, to advise optimum product choice by application, and provide advice on best practice, or installation/failure issues.

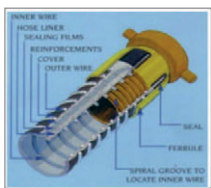
Onsite coded welders and ISO9001 quality procedures ensure all flexible hose assemblies are fit for purpose. Where required, we can also provide material certification, including 3.1. Flexitallic offers in-house, or mobile hose testing, conducted by our trained, experienced technicians.

COMPOSITE HOSE TYPES



Used for tanker loading and offloading, general purpose and chemical transfer.

Typical end fittings:
Male and female lugged BSP P/NPT/URT, flanged fixed or swivel and Camlocks in a range of materials such as stainless steels, gunmetal and polypropylene. These



can also be fitting with dry break couplers.

Available in a variety of hose material types, depending on application, up to 30mtrs in length and suitable for pressures up to 14 Bar.*

STAINLESS STEEL HOSE TYPES



For low and high pressure gases, liquid and steam applications, assembled and tested through our UK branch network using UK sourced products, with full test and material certification, as required. Typically 321/304, 316 and exotics available upon request.

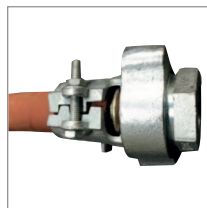


Typical end fittings:
Male and female cone/flat faced, BSP taper and parallel, NPT, flanged

fixed or swivel and camlocks in a range of materials such as stainless steel and carbon steel.

Suitable for a wide range of lengths and working pressures, typically up to 220 bar, for small bore types.*

LOW AND HIGH PRESSURE STEAM HOSE ASSEMBLIES



Typical pressures up to 18 Bar and -40°C to $+210^{\circ}\text{C}$ *

Male and female ground joint seal, BSP/NPT, male hose shank, bolted clamped ends or swaged in malleable iron.

**Please seek further information.*



HOSES

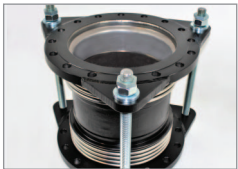
STAINLESS AND RUBBER BELLOWS; GENERAL PURPOSE RUBBER; CONVOLUTED AND SMOOTH BORE PTFE HOSE TYPES.

HYDRAULIC HOSES



All types supplied.
**Can be made from an existing sample, or to your specification.*

STEEL AND RUBBER BELLOWS



For high and low pressure gases, liquid and steam applications, assembled and tested through our UK branch network, using UK sourced products, with full test and material certification, as required. Typically 321/304, 316 and exotics available, upon request.



GENERAL PURPOSE RUBBER

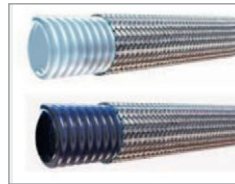
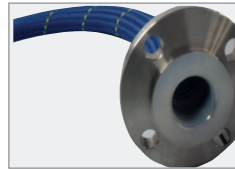


Silicone and PVC including suction / delivery assemblies, for low risk applications, including dairy and brewery.

Typical end fittings:

BSP male and female, flanges, bauer's, camlocks and hygiene types in a variety of materials from Polypropylene, 316 stainless steel, gunmetal and malleable iron.*

CONVOLUTED AND SMOOTH BORE PTFE HOSE TYPES



For chemical and FDA applications, available in a variety of outer braid. Types including stainless steel, polypropylene, kynar, silicone, fire retardant and smooth outer finishes. Also available in virgin or anti static (black) PTFE.

Typical end fittings:

From a range including: male and female BSP P/NPT/URT, fully line tafted flange faces, fixed or swivel, camlocks, tri-clovers, DIN and RJT. In materials including 316 stainless steels and polypropylene.*

*Please seek further information.



STAMPED

**“STAMPED” - ENABLES FLEXITALLIC TO SPECIFY/
QUOTE THE HOSE AND COUPLING COMBINATION
THAT BEST MEETS THE APPLICATION CRITERIA.**

“STAMPED”		
'S'	Size	The hose inside diameter (I.D.) and length required to meet the application requirements (i.e. 3" x 10 ft.).
'T'	Temperature	Maximum and minimum temperature of the product conveyed through the hose assembly. Continuous, or varied any exterior temperatures, if present.
'A'	Application	Describe the actual use of the hose (i.e. ship to shore unloading, LPG transfer, in plant chemical use, etc).
'M'	Material being conveyed	Air, water, the specific chemical, product or material conveyed (i.e. compressed air, chemical transferred, concentration of products etc).
'P'	Pressure	The maximum pressure, or vacuum at which the material is being conveyed through the hose assembly. (i.e. 100psi. including pressure spikes). Vessel design /PRV pressure.
'E'	Ends	Type of end connections required to attach the hose (i.e. NPT/BSP male/female, cam and groove, flanged/todo etc).
'D'	Delivery	Date the assembly is required by.

On provision of the information, left, Flexitallic are able to specify and quote a suitable combination that meets the criteria most suited for your particular application.

Flexitallic supports high quality, flexible hose assemblies, provides advise and support, meeting the objective of maximum service life.



HOSE FITTINGS & MANAGEMENT

**LARGE STOCKS OF HOSE AND ASSOCIATED FITTINGS
TO SUIT THE MOST COMMON APPLICATIONS.**

HOSE ASSOCIATED FITTINGS

Flexitallic hold comprehensive stocks of hose and fittings at all UK branches, suitable for the most common applications found throughout the petro chemical, food and pharmaceutical industries. These include:

BSP male and female, NPT male and female steam fittings

Air/water low and high pressure fittings

Dry break units

(hose female and tank male)

Quick release pneumatic and hydraulic couplers including adaptors

Cam and groove (camlocks) high and low pressure

Claw couplers hygienic ranges

Fire couplers, and assemblies, valves, clamps & seals

Bauer couplers, full range and sizes

HOSE MANAGEMENT

Consultancy is provided, establishing systems which ensure all on site and new hose assemblies meet and are managed/ controlled in accordance with current *Energy Institute Guidelines, for the Management of Flexible Hose Assemblies (2nd Edition)*. Typical Hose Management Systems include:

- A documented, regular hose testing and inspection regime.
- New and old hose assemblies labelled and documented for traceability.
- All new hoses supplied, as standard, with a unique identification tag.

- Identification tags can be retrofitted to stores and operational hoses.
- All hoses to have a risk assessment to determine inspection timescales.
- Assemblies are, "risk assessed", to ensure all are, "fit for purpose". This includes visual inspection and analysis of, "bad actors", from reliability data.
- Onsite, or offsite hose pressure testing: hydraulic, pneumatic or visual; by our team of experienced engineers.
- Compilation of a hose register, customised to suit individual requirements. All hose specifications are logged, with each hose's unique, identification number (aids hose replacement/renewal).
- Full range of hose types and associated fittings.
- Consultancy to bring existing system in line with current, "Industry Best Practice".
- Hose assembly, test status can be managed through colour coding, providing an easy, visual method of identification.

No two plants are the same. Hose management systems differ similarly. Flexitallic design systems to suit customer requirements, ensuring all the key elements of the *Energy Institute Guidelines* are included.

Flexitallic provides accredited, hose management, training courses, in areas including:

Pressure testing, hose identification, visual inspection/fault identification and resolution and best, industry practice, storage and use. Courses are tailored to suit *Site and Energy Institute Management Systems*, in accordance with *FHA Guidelines*.

Please contact us for further information/ course details.



**SYSTEMS THAT ENSURE ALL EXISTING
AND NEW HOSE ASSEMBLIES MEET
THE CURRENT ENERGY INSTITUTE
GUIDELINES, RECOGNISED BY HSE.**

ENGINEERING SERVICES

FLEXITALLIC APPLICATION ENGINEERS ARE ACTIVE IN A NUMBER OF INDUSTRY STANDARDS ORGANISATIONS, AND ARE INSTRUMENTAL IN SPAING THE FUTURE OF EUROPEAN AND INTERNATIONAL STANDARDS COMMITTEES SUCH AS ASME PCC-1 2019 AND EN 1591.

Our team of application engineers understand that the use of high quality gaskets, although a prerequisite for joint integrity, are not a guarantee of sealing success. As a consequence, Flexitallic application engineering offer a range of engineering services that are designed to complement and enhance Flexitallic's product offering. Allowing customers to operate their plants, complete projects and start up from turnarounds safely and efficiently.

Our goal is to help customers achieve leak free startup and operation within the scheduled maintenance cycle.

These services include:

- Engineering drawings
- Bolt torque and load calculations
- Flange integrity calculations
- Failure mode analysis
- Gasket selection and hose specification and installation
- Pressure vessel design review (flange)
- Technical consultation



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About The Flexitallic Group

The Flexitallic Group is a global leader in specialised sealing solutions and products serving the oil and gas, power generation, chemical and petrochemical industries in emerging and developed markets. Focused on the upstream, downstream and power generation sectors, it has operations in France, the United States, Canada, Mexico, the United Kingdom, Germany, Italy, Belgium, the United Arab Emirates, Thailand, Australia and China plus a network of worldwide licensing partners and distributors.

Supporting Suppliers

