

# KAPTECH

## HYGIENIC HOSE ASSEMBLIES



ISO 9001  
Quality  
Management  
Systems  
CERTIFIED

FS 28046

**CUYSON**

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## HYGIENIC HOSE ASSEMBLIES

FOR THE FOOD, DAIRY, BREWING & PHARMACEUTICAL INDUSTRIES

Guyson expertise in hygienic hose assemblies is based on many years experience in supplying hoses for a wide range of industry applications, handling all kinds of food, drink, dairy and pharmaceutical products, process fluids, gases, CIP liquors, etc. All Kaptech hygienic hoses are manufactured from FDA-approved materials.

### Kaptech End Fittings

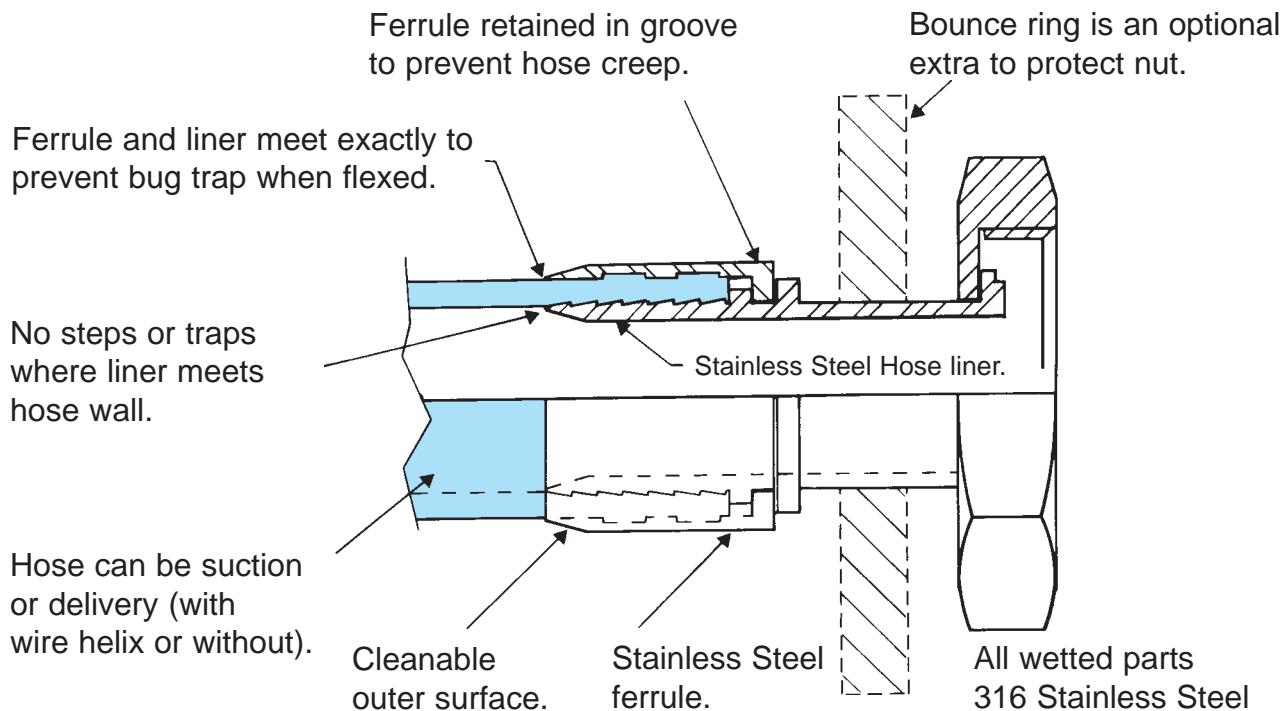
Careful design and manufacture of Kaptech end fittings for hygienic applications ensures complete security of attachment, maximum smooth flow path and suitability for successful CIP.

All hose assemblies are fully leak-tested before despatch.

Test certificates and/or certificates of conformity can be supplied if required.

End fittings in undamaged condition can be re-used for repair or renewal of hose assemblies to give useful cost savings in some cases.

### THE KAPTECH ASSEMBLY METHOD

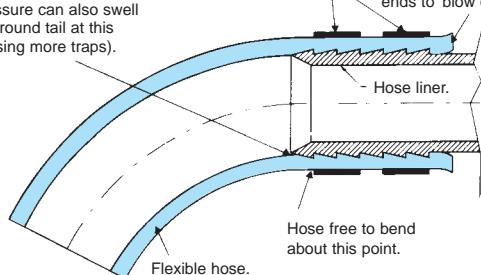


Shown below are the weaknesses of other assembly methods not recommended by Guyson

Under flexing conditions this area is exposed to product collection and creates 'bug trap' (pressure can also swell hose all around tail at this point causing more traps).

Strapping traps dirt difficult to keep clean often sharp edges.

End of hose not trapped and susceptible to 'creep' under pressure can allow ends to 'blow off'.

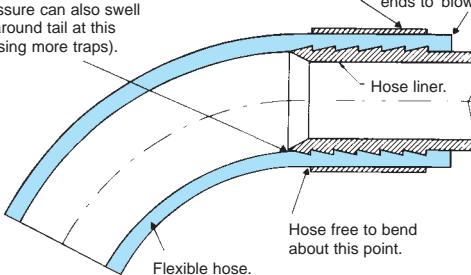


DESIGN WEAKNESS OF BAND STRAP OR HOSE CLIP ATTACHMENT

Under flexing conditions this area is exposed to product collection and creates 'bug trap' (pressure can also swell hose all around tail at this point causing more traps).

Swage or crimp ferrule made from thin wall tube length not matching tail.

End of hose not trapped and susceptible to 'creep' under pressure can allow ends to 'blow off'.



DESIGN WEAKNESS OF BASIC FERRULE CONSTRUCTION

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## HYGIENIC HOSE ASSEMBLIES

**Kaptech hygienic hoses shown below are widely used and well proven in all kinds of hygienic fluids applications, offering ease of handling, durability and CIP suitability. Other more specialised Kaptech hoses are available for specific applications.**

### FDA-approved rubber hoses

#### Kaptech Premium Food and Brewers hose

The highest quality hose for tough applications where high strength and durability are needed. Will handle pressures up to 17bar and suction down to 70% full vacuum. Recovers shape after vehicle run-over.

#### Kaptech Ultraflex Food and Brewers hose

The light weight and high flexibility of Kaptech Ultraflex hose result in exceptional ease of handling, which is much appreciated by operators. Suitable for up to 10bar operation.

### FDA-approved Silicone hoses

Kaptech silicone hoses offer exceptionally high standards of operational cleanliness, coupled with excellent flexibility, giving especial suitability for pharmaceutical and biomedical applications.

#### Kaptech Silicone Delivery hose

A range of extruded hose manufactured with a variety of reinforcing materials to provide graduated strengths and temperature ranges.

#### Kaptech Silicone Suction and Delivery hose

Mandrel-built hoses with multiple reinforcement layers and helixes to provide exceptional suction and pressure capabilities. They offer easy cleaning characteristics internally and externally, by both manual and automatic means.

#### Kaptech Silicone Specials

Guyson offers custom-design and production of bellows, U-bends and other special products in FDA-approved silicone, as well as some standard products.

### Kaptech FDA-approved Chemical hoses

Specialised, kink-resistant PTFE and UHMWPE-lined for a whole range of food and pharmaceutical industry applications where exceptional chemical resistance is needed.

### Kaptech non-glass Sight-glasses

Manufactured in TEFLON/FEP to give non-breakable sight-glasses which can be built into Kaptech hose assemblies or supplied separately for installation in customers' pipework.

### End Fittings for Hygienic Service

Guyson offer a wide range of hygienic styles of end fitting. Shown below are the more regularly specified types; all can be hygienically and permanently connected to any of the range of hoses listed in this brochure.

All Kaptech hygienic fittings are produced in 316 Stainless Steel (with 304SS nuts/ferrules), and are available in the wide range of sizes shown below.

As an optional extra Guyson can also provide rubber bounce rings to protect fittings and floors from unnecessary damage.



#### RJT

Manufactured to BS 1864. Used for ease of dismantling for washing and sterilising. Sizes 1" to 4".



#### IDF/ISS

International Dairy Federation standard (also known as International Sanitary Standard). With its flush, crevice-free joint it is highly suitable for CIP. Sizes 1" to 4" (can be supplied with round nut).



#### DIN 11851

Manufactured mostly to German and European standards with round slotted nuts. Sizes 1" to 4".



#### SMS

This Swedish standard has a slotted round nut. Sizes 1" to 4".



#### Tri-Clamp

Made to "Tri-Clover" design and American 3A standards. The self-aligning union has a smooth crevice-free bore. Various seals. Sizes 1/2" to 4" (also available in Mini-Tri-Clover).

#### Other Types available:

- 316 SS Camlock fittings.
- Flanged connections.
- Special fittings to suit customer requirements.

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## OTHER GUYSON PRODUCTS

### KAPTECH STAINLESS STEEL HOSE

Kaptech stainless steel braided flexibles have end fittings welded on in our modern fabrication facility to give assemblies of high integrity, with fast availability.



### KAPTECH PTFE HOSE

All Kaptech PTFE flexibles have the highest level of chemical resistance.

A wide range of standard and special end fittings are available, factory-swaged on for total security.



### KAPTECH COMPOSITE HOSE

Light, easy-handling hoses with good flexibility and modest cost. A wide range of chemical resistance is achieved through the use of polypropylene, PTFE, etc.



### KAPTECH INDUSTRIAL HOSES

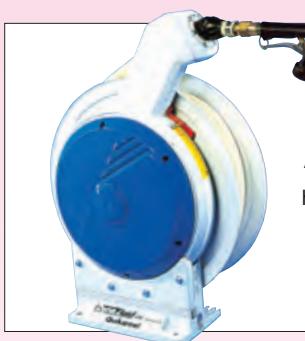
A wide range of robust rubber hoses for general

industrial services, including water, steam, chemicals, air, oils, fuels, and many other liquids and gases.



### KAPTECH HOSE REELS

Automatic, self-retracting hose reels for convenient and safe handling of wash-down hoses, etc.



Stainless Steel bellows, vibration eliminators and sight-glasses are also available.

### HANSEN QUICK RELEASE COUPLINGS



With a comprehensive range of types, sizes and materials Hansen couplings provide fast, leak-free connection and disconnection of hoses for an unrivalled variety of liquids and gases, including, water, steam, fuels, solvents, fine chemicals, oils etc. Self-sealing and dry-break types give automatic prevention of spillage.



### Guyson Service

The Guyson team of hose specialists offers unrivalled expertise in specification and selection of suitable hose assemblies for customers' application conditions. Advice is freely available to customers by correspondence, telephone, fax, e-mail and personal visits to customer sites. All Kaptech hose assemblies are fully tested before despatch and are supplied under our ISO 9001:2015 accredited quality system.

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