

# KAPTECH

## FLEXIBLE SMOOTH BORE PTFE PROCESS HOSE ASSEMBLIES

### PTFE 7000 BIOFLEX ULTRA

- **Unique combination of smooth-bore and high flexibility.**
- **New improved kink resistance.**
- **Excellent chemical resistance**  
Inert to all but a handful of uncommon chemicals.
- **Easy to clean**  
The non-stick nature of the PTFE tube helps prevent product adhering to the tube wall.
- **Hygienic**  
Manufactured from FDA-approved PTFE.
- **Excellent flow**  
Flow rates are approximately double those of conventional convoluted hose, dependant on application.



- **Heat-resistant**  
Usable up to 260°C, dependent on specification and application details.
- **Vacuum resistant**  
Usable with full vacuum dependent on specification and application details.
- **Sizes:** 1/2" up to 2" nb.
- **Various tube, braid and cover options.**
- **Wide range of end fittings available.**



For capabilities and general technical data, see overleaf

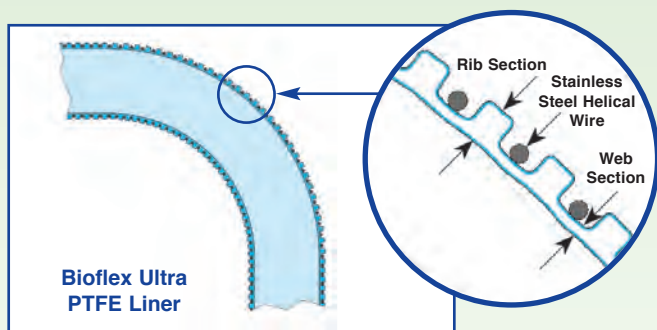


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## PTFE 7000 BIOFLEX ULTRA FLEXIBLE SMOOTH BORE PTFE HOSE ASSEMBLIES

**Kaptech PTFE 7000 Bioflex Ultra flexible PTFE hose offers a unique solution to the need for a smooth bore hose with the flexibility of a convoluted hose.**

The Bioflex Ultra PTFE tube design incorporates integral external rib sections which along with a high tensile 316 stainless steel wire helically wound in to the root of the convolutions, support the tube against kinking, vacuum and pressure. Highly compressed web sections give a smooth inner surface with excellent flexibility. Compared to conventional convoluted PTFE hose, Bioflex Ultra gives much improved performance; at least double the flow rate, excellent gas permeation resistance, and superior flexing cycle life.

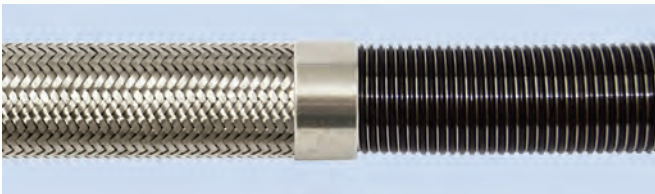


### Tube Options:

**General purpose (GP):** this is the general purpose natural translucent PTFE tube option.

**Anti-static (AS):** this is a black anti-static PTFE tube option. Please consult Guyson Technical department when selecting this option.

**Tube only (TO):** this is an unbraided tube-only option available where a translucent, low pressure or light weight hose is required.

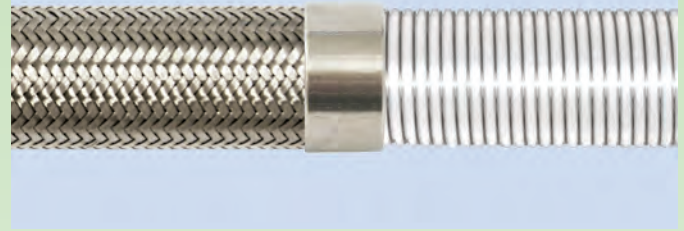


### Braid Options:

**Stainless steel braid (SS):** the stainless steel braid option using high tensile 316 stainless steel wire can be selected, to give maximum hose pressure capabilities.

**Polymer braid (PB):** a light weight polypropylene braid option is available which may be preferred in applications involving frequent handling of the hose.

Other Kaptech PTFE hoses available include: PTFE 1000 smooth bore, PTFE 3000 convoluted (industrial applications) PTFE 4000 Hyperline FX smooth bore (industrial applications) and PTFE 5000 Corroflon convoluted (process applications).



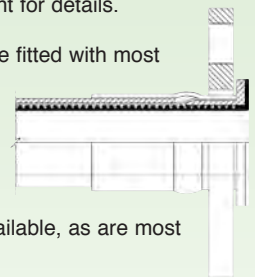
### Cover Options:

**Blue EPDM rubber cover (RC):** this option can be selected where additional protection from rough treatment or severe external abrasion is required. This option may also be used where smoothness or easy cleaning of the outside of the hose is required.

**Platinum cured silicone rubber cover (SI):** this option may be used where elevated temperatures are present and has the added benefit of being semi-transparent allowing visual monitoring of the braid.

Other rubber covers and external protection systems are available—please consult Guyson Technical Department for details.

**End Fittings:** All hoses assemblies can be fitted with most conventional types of end fittings. A full range of hygienic type end fittings such as RJT, IDF, DIN, SMS and Tri-clamp (lined or non-lined) are available. Most threaded connections including BSP and NPT are available, as are most styles of swivel flanges in various materials.



### Stainless Steel Braided (SS)

Bore Size	Minimum Bend Radius	Maximum Working Pressure	Weight Per Metre	Maximum Cont. Length
Inches	mm	bar	kg	m
1/2	38	70	0.290	30
3/4	50	60	0.400	30
1	70	50	0.630	30
1 1/4	100	45	0.850	30
1 1/2	140	40	1.100	30
2	200	30	1.900	30

Pressure ratings shown are valid for Group 2 fluids only [per Pressure Equipment Directive 97/23/EC, Art.9 (2) ]. Consult Guyson Technical Department for Group 1 (dangerous) fluids ratings.

### Pressure range.

Pressures shown above are for PTFE 7000 Bioflex Ultra with stainless steel braid option (SS) at ambient temperature. For versions with other braid or tube only (TO) options, please consult Guyson Technical Department.

Max working pressures are based on a minimum 4:1 factor of safety on the burst pressures.

**NOTE:** The maximum working pressure of a hose assembly is limited to the lowest of the maximum working pressures of either of the two end fittings or the hose itself.

### Temperature range.

Usable from -73°C to +260°C dependent on specification and application details. Please consult Guyson Technical Department.



## GUYSON INTERNATIONAL LIMITED HOSE & COUPLINGS DIVISION

Southview Business Park, Guiseley, Leeds LS20 9PR

Tel: 01943 870044 e-mail: leeds@guyson.co.uk web: www.guyson.co.uk

