

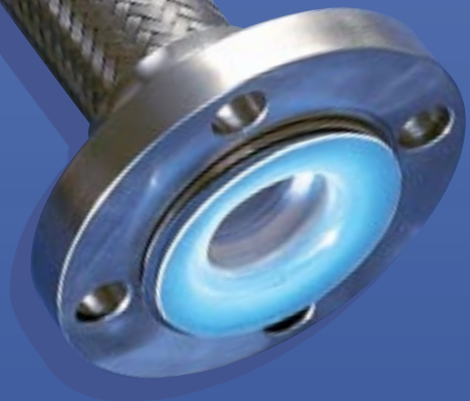
# KAPTECH

## CONVOLUTED PTFE PROCESS HOSE ASSEMBLIES

### PTFE 5000 CORROFLON

- **Excellent flexibility**  
Convoluted tube allows tight, kink-free bends and ease of handling.
- **Self-cleaning**  
The non-stick nature of the tube and the low angle of the convolutions ensure excellent cleanability.
- **Hygienic**  
Manufactured from FDA-approved PTFE.
- **Heat-resistant**  
Usable up to 230°C, dependent on specification.
- **Excellent steam resistance**  
Longer service life than rubber steam hoses.
- **Durable**  
Tough outer braid protects against abrasion and damage.
- **Vacuum resistant**  
Usable with full vacuum (up to 1" size, max 130°C).
- **Sizes:** 1/2" up to 6" nb.
- **Wide range of end fittings:** BSP, NPT, flanges, hygienic type, etc.

- **Excellent chemical resistance**  
Inert to all but a handful of uncommon chemicals.
- **Low flow-resistance**  
The smooth low-friction tube and low angle of the convolutions give good flow capacity.



FS 28046



For capabilities and general technical data, see overleaf

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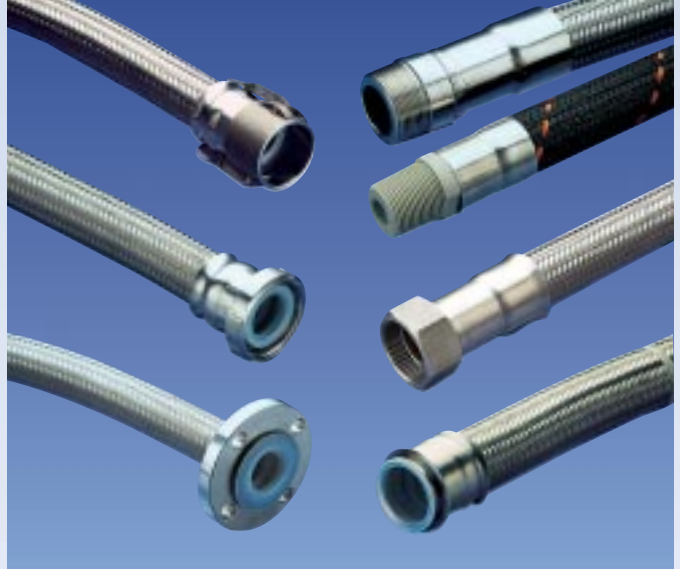
## PTFE 5000 CORROFLON - CONVOLUTED PROCESS PTFE HOSE ASSEMBLIES

Kaptech PTFE 5000 Corroflon convoluted PTFE hose is widely regarded as the optimum choice for process applications, especially in the pharmaceuticals, food and chemicals industries.

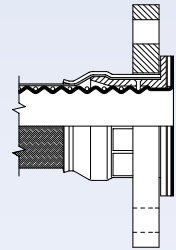
**Anti-static:** In addition to the standard translucent tube, Kaptech PTFE 5000 Corroflon hose is available with an anti-static black PTFE tube (AS). This is designed for applications where fluids with a high electrical resistance such as solvents and fuels are passed through the hose and allows the dissipation of any static charge in accordance with BS2050: 1978.

**Tube Only:** An unbraided tube-only option (TO) is also available for applications where a translucent, low-pressure hose is required. Other specialist PTFE tubes are available to special order.

**Braid Options:** Kaptech PTFE 5000 Corroflon PTFE hose is provided as standard with an external stainless steel braid. It is also available with a polymer braid (PB) manufactured from a polypropylene yarn which provides a lightweight braid with excellent chemical resistance and comfortable handling characteristics. Other specialist braids and covers are available to special order.



end fittings such as RJT, IDF and Tri-clamp are available, and these can be PTFE-lined where the sealing technique allows. Cuffed ends suitable for customers to attach their own fittings are available to special order.



### End Fittings.

Kaptech PTFE 5000 Corroflon hose assemblies can be fitted with all conventional types of end fittings. Standard types include BSP and NPT threaded fittings in zinc-plated mild steel and 316SS; swivel flanges in 304, 316SS and polypropylene are also options. A full range of hygienic type

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

The maximum working pressures listed are for temperatures up to 130°C only. Above 130°C, the maximum working pressure & vacuum resistance must be reduced by 1% for each 1°C above 130°C.

Other Kaptech PTFE hoses available include: PTFE 1000 smooth bore, PTFE 3000 convoluted (industrial applications) and Bioflex smooth bore (process applications). PTFE moulded & 'V' type bellows are also available to special order.

Stainless Steel Braided						
Bore Size	Minimum Bend Radius	Maximum Working Pressure	Weight Per Metre	Maximum Cont. Length	Minimum Used Straight	Minimum Flexed at 90°
Inches	mm	bar	kg	m	mm	mm
1/2	38	41	0.330	15	150	150
3/4	51	35	0.450	15	150	150
1	70	31	0.700	15	180	230
1 1/4	82	27	0.820	15	180	250
1 1/2	100	23	1.500	15	200	350
2	140	20	2.100	15	200	450
2 1/2	178	16	2.580	13	250	600
3	230	14	3.290	11	250	750
4	300	10	5.330	7	350	1000
6	600	5	10.000	3	500	1500

### Pressure range.

PTFE 5000-SS: As table above.

PTFE 5000-PB: Reduce SS pressures by 50%.

PTFE 5000-TO: Reduce SS pressures by 85%.

### Temperature range.

PTFE 5000-SS: -70°C up to +230°C.

PTFE 5000-PB: -30°C up to +90°C.

PTFE 5000-TO: Refer to Guyson Technical Department.



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