

KAPTECH

SMOOTH BORE PTFE HOSE ASSEMBLIES

PTFE 1000

- **Excellent chemical resistance**
Inert to all but a few uncommon chemicals.
- **Low flow-resistance**
Smooth low-friction tube gives the ultimate in flow capacity.
- **Self-cleaning**
The smooth, non-stick nature of the tube prevents product adhering to the tube wall.
- **Lightweight**
Around 60% of the weight of a typical rubber hose.
- **Durable**
Tough outer braid protects against abrasion and damage.
- **Heat-resistant**
Usable up to 260°C, dependent on specification.
Excellent with steam.
- **Sizes**
1/4" up to 1" nb.
- **Wide range of end fittings**
BSP, NPT, flanges, hygienic type, etc.



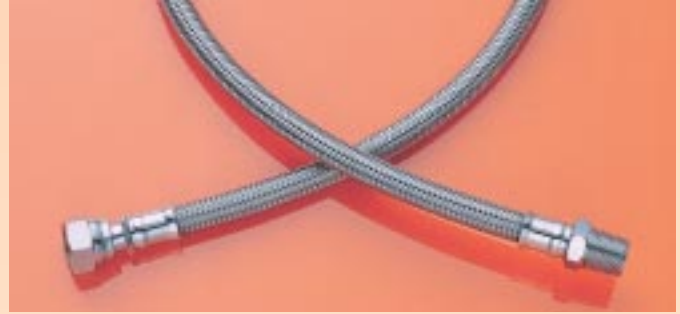
FS 28046



For capabilities and general technical data, see overleaf

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PTFE 1000 - SMOOTH BORE PTFE HOSE ASSEMBLIES



Standard Wall: For general purpose use, including high & low pressure steam, chemicals, paints, inks, adhesives, fuels, oils, detergents, refrigerants & some foodstuffs.

Heavy Wall: for heavy-duty use and also for use with gases up to 150 bar (according to size) and for hot/cold cycling applications.

Anti-static: In addition to the standard translucent tube, PTFE 1000 is also available with an anti-static black PTFE tube. This is designed for applications where fluids with a high electrical resistance such as solvents & fuels are passed through the hose and allows the dissipation of any static charge in accordance with BS2050: 1978. Other styles of tube such as the American 'Dash' style hose are available by special order.

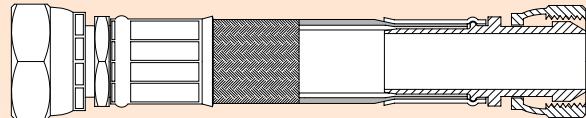
Braid Options:

PTFE 1000 smooth bore PTFE is provided as standard with a single or double stainless steel braid, according to pressure rating. Other specialist braids and covers are available to special order.



End Fittings.

PTFE 1000 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, and swivel flanges in mild steel and 304 or 316SS. Hygienic type end fittings are also available.



Although PTFE 1000 smooth bore hose assemblies are suitable for a wide range of applications, care should be taken not to exceed the indicated minimum bend radius given for each size of hose. For applications where continuous or severe flexing is required, especially in larger nominal bore sizes, PTFE 3000, PTFE 5000 (Corroflon) or Bioflex hose assemblies may offer a more suitable solution.

Standard Wall Hose

Single Braid			
Bore Size	Minimum Bend Radius	Maximum Working Pressure	Weight Per Metre
Inches	mm	bar	kg
1/4	60	240	0.093
3/8	80	190	0.124
1/2	110	150	0.207
3/4	200	80	0.315
1	300	55	0.430

Double Braid			
Bore Size	Minimum Bend Radius	Maximum Working Pressure	Weight Per Metre
Inches	mm	bar	kg
1/4	40	290	0.160
3/8	60	230	0.214
1/2	90	180	0.341
3/4	170	100	0.503
1	270	70	0.700

Heavy Wall Hose

Single Braid			
Bore Size	Minimum Bend Radius	Maximum Working Pressure	Weight Per Metre
Inches	mm	bar	kg
1/4	30	260	0.113
3/8	55	200	0.153
1/2	85	160	0.240
3/4	145	92	0.344
1	260	69	0.470

Double Braid			
Bore Size	Minimum Bend Radius	Maximum Working Pressure	Weight Per Metre
Inches	mm	bar	kg
1/4	26	310	0.183
3/8	50	240	0.243
1/2	75	200	0.374
3/4	135	110	0.532
1	250	84	0.730

Intermediate & larger nominal bore sizes are available on request.

Maximum working pressures are based on a 3:1 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 must be reduced by 1% for each 1°C above 130°C, up to a maximum of 260°C.

Other Kaptech PTFE hoses available include PTFE 3000 convoluted (industrial applications), PTFE 5000 Corroflon convoluted and Bioflex smooth bore (process applications). PTFE moulded & 'V' type bellows are also available to special order.



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