



FLEXIBLE NON-METALLIC PIPES FOR LPG APPLICATION

TCI has developed a range of single wall flexible, re-enforced thermoplastic pipes (DN16, DN20, DN25, DN32 and DN48) for LPG installations in service stations and fuel distribution centres. The continuous spooled, flexible pipes provide for extremely rapid and low cost installation. The use of advanced polymers and Aramid fibres braid ensure corrosion resistance, strength and enhanced lifetime. The LPG pipes are installed in continuous runs between tank and dispenser, eliminating all buried inaccessible joints. Plastics being 100 times smoother than steel, smaller pipe diameters will give identical flow results as the typically larger steel and corrugated steel pipes.



A reinforced multi-layer pipe

A smooth inner Nylon liner compatible to automotive LPG both in vapour and liquid phase.
A longitudinal and radial Aramid fibres braid providing strength and preventing elongation.
An abrasion resistant Polypropylene jacket protecting the braid.

Advantages

Installed in continuous runs
No corrosion
35 bar rated pressure
Less pressure drop than steel
Reduced installation time and cost!
(hours vs. days)

Thermoflex/LPG pipes are the most cost efficient pipework to install !



FLEXIBLE NON-METALLIC LPG PIPES CHARACTERISTICS

Pipes

Pipe construction:

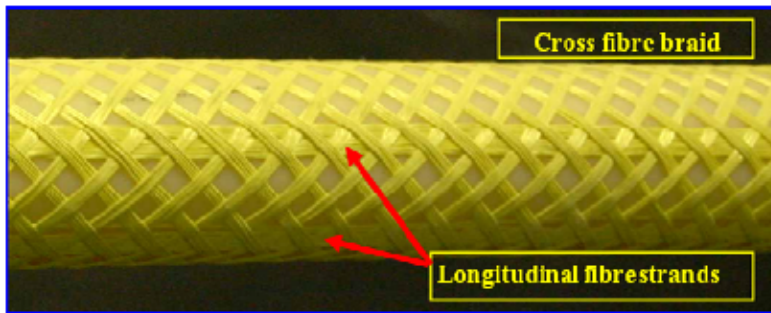
- Nylon inner material
- Aramid fibres braid; design strength 1,5 times max. operation pressure
- Polypropylene outer jacket, yellow colour

Operating temperature: -40°C to +65°C

Packaging : disposable reels

Storage : should be stored inside

Min. installation temperature: 0°C (pipe must be heated when installed at lower temp.)



The strength of the pipe is entirely determined by the braid and NOT by the wall thickness ! = **Flexible pipe**

Product code pipe	Tubing size O.D.	Tubing size I.D.	Tubing size I.D.	Tubing Weight kg/m	Operating Pressure psi	Operating Pressure bar	Standard Coil length m	Min. bend radius m
LP1000	1"	DN16	0,63"	0,34	500	34,47	200	0,4
LP1025	1 1/4"	DN20	0,88"	0,44	500	34,47	200	0,6
LP1050	1 1/2"	DN25	1,08"	0,62	500	34,47	200	0,6
LP1075	1 3/4"	DN32	1,33"	0,68	500	34,47	200	0,7
LP2375	2 3/8"	DN48	1,88"	0,9	500	34,47	200	0,9



SP4301YE : yellow sec. duct, in case LPG pipe ducted installation (OD 110mm, ID 95mm)



200m LPG pipe coiled on disposable reel



ARL10082 : LPG pipe cutter suitable for all pipe diameters

EASY AND QUICK TO INSTALL

Couplings

The couplings could be crimped in the workshop or on site by means of a hand operated hydraulic crimping machine. The ferrule will be locked into the Aramid fiber braid. There are 2 types of couplings depending of the type of crimping machine available:

- Zinc Chromate Plated Carbon Steel swage type couplings with male NPT thread to be swaged by an axial crimping machine
- SS304 stainless steel couplings with a carbon steel insert and male NPT thread to be swaged by a radial crimping machine

Product code pipe	O.D Tubing size	I.D Tubing size	Coupling output (Male)	Product code AXIAL coupling	Product code RADIAL coupling
LP1000	1"	DN16	NPT 1/2"	FC1000M-NPT	
LP1025	1 1/4"	DN20	NPT 3/4"	FC1025M-NPT	MC20075-NPT
LP1050	1 1/2"	DN25	NPT 1"	FC1050M-NPT	MC25100-NPT
LP1075	1 3/4"	DN32	NPT 1 1/4"	FC1075M-NPT	MC32125-NPT
LP2375	2 3/8"	DN48	NPT 2"	FC2375M-NPT	

Axial crimped NPT coupling and crimping machine



Radial crimped NPT coupling and crimping machine



