

**CARAVAN AND PARK HOMES LPG MINI DISTRIBUTION SYSTEMS**

# Lost your Bottle ?

Throughout the UK, there are thousands of caravan parks, of which all but a small amount use LPG as their primary fuel for heating, leisure and cooking.

As you can imagine, there is a huge opportunity for both, gas companies and gas equipment manufacturers to persuade the park to change from a bottle supply to a multi-distribution scheme via a bulk tank supply. The photographs below show a typical bottle installation coupled to an automatic changeover valve.



*Typical 4-bottle installation*

This type of installation involves the manual changing of heavy, unsightly gas bottles and a 24-hour service requirement for a continuous gas supply.

The alternative to a bottle supply is to run a medium-pressure underground distribution system fed from bulk LPG tanks. A second stage regulator or meter module is then sited at each caravan base connected to the caravan via a flexible armoured hose. This bulk distribution system is far neater and much less labour-intensive, and also reduces the risk of an LPG gas run out.

Elster-Jeavons Ltd. has developed a product range for such bulk distribution systems and these comprise of:

- Bulk tank installation kits,
- 1<sup>st</sup> stage pressure reduction modules,
- PE pipework connection kits,
- 2<sup>nd</sup> stage regulator modules,
- 2<sup>nd</sup> stage meter modules,
- Caravan connection kits.

**Bulk Tank Installation Kits**

An extensive range of tank kits is available to suit the number and size of the LPG storage tanks required. Normally ranging from single tank installations up to multiples of 6 tanks.



**1<sup>st</sup> Stage Pressure Reduction Modules**

The first stage module reduces the tank pressure to a suitable distribution pressure of normally 0.75 bar. Output capacities of 10 million, 5 million and 1 million Btus/hr are available in single and twin stream configurations. All modules incorporate the latest safety features including over pressure shut off devices and limited capacity relief valves.

**2<sup>nd</sup> Stage Meter Modules**

Incorporating the J1253 UPSO/OPSO regulator and the Elster BK2.5 G4 badged meter, the module is suitable for offtakes of 500,000 Btus/hr. The module is housed in an ABS; UV stabilised kiosk which is weatherproof and durable. A viewing window in the front cover facilitates easy meter reading.

Both regulator and meter modules have been specifically designed to fit underneath the majority of caravans and can easily be removed as a complete unit by simply unscrewing two union connections.

Suitable support kits are available for both, regulator and meter modules.



*Typical 4-tank installation*



*Typical twin stream 1<sup>st</sup> stage pressure reduction module.*



*Typical regulator module in ABS kiosk*



*Typical meter module in ABS kiosk with viewing window*

The full range of 1<sup>st</sup> stage modules can be supplied fitted to robust steel supports, housed in plastic coated stainless steel kiosks or in underground pits.

**PE Pipework Connection Kits**

PE connection kits are designed to connect 20, 25 and 32 mm O/D PE gas pipes from below ground to the regulator/meter module. The connection kit enables the PE pipe to be taken out of the ground and terminate with a union isolation service valve. A GRP sleeve is supplied as part of the kit to protect the PE pipe.

**2<sup>nd</sup> Stage Regulator Modules**

Incorporating the J1253 UPSO/OPSO regulator, the module is suitable for offtakes of 500,000 Btus/hr. The unit is available as a stand-alone regulator or fitted in a tough, durable, UV stabilised ABS enclosure.

**Caravan Connection Kits**

Designed for use with both, regulator and meter modules, these kits allow the final connection to the caravan or park home. Comprising of approved, galvanised steel braided, nitrile rubber hose, it is connected to the unit via a bulkhead adaptor and secured to the underside of the caravan.

For more information please contact Elster-Jeavons direct.

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