

ELSTER-JEAVONS

In Control

ELSTER-JEAVONS has been actively promoting its range of LPG equipment at the LP Gas 2002 Exhibition in the UK. Targeting the sales at caravan and holiday parks ELSTER-JEAVONS writes a feature in the exhibition magazine stressing the design importance of multi-distribution systems via bulk tank supply.

Getting the first stage right

When designing a bulk storage development for holiday use or permanent dwellings, it is important to ensure that the correct choice of first stage pressure reduction is made. ELSTER-JEAVONS Ltd has developed a comprehensive range of such equipment, specifically designed to meet the current standards required for Holiday and Park Home distribution systems.

Whilst the obvious benefits of having a piped LP Gas system against a bottled gas system are well documented, it is essential that the design and layout of the system, from the LPG storage tanks to final connection to the home is carried out by an experienced installer. To ease this task, we have made available a range of single and twin-stream first-stage pressure reduction modules with outputs of 1M, 5M and 10 million Btu/h that accompany our existing range of meter/regulator assemblies, PE connection kits and flexible hoses.

The first-stage module reduces the LPG tank pressure to a distribution pressure of around 0.75 bar. All modules incorporate the latest safety features including:-

- ▶ Pressure reduction by adjustable regulators that have been thoroughly tried and type tested throughout years of service in the field.
- ▶ ELSTER-JEAVONS S300 (OPSS) over-pressure unit that externally senses the outlet pressure. Should the pressure increase above a predetermined set pressure, the OPSS unit trigger mechanism operates and shuts off the gas supply.
- ▶ Limited relief valve that will vent any small pressure increase to atmosphere. The relief will operate prior to the OPSS unit tripping and is, in effect, an early warning to a possible OPSS trip.
- ▶ High and low-pressure test points.
- ▶ Non return valves.

For ease of design, the following chart gives guidance for the maximum number of properties that should be connected to each module. These



The LP Gas 2002 Exhibition in the UK

figures are based on a diversity factor of 65% and of takes of :

- ▶ 150000 Btu/h for a permanent dwelling
- ▶ 120000 Btu/h for a residential mobile park home
- ▶ 90000 Btu/h for a caravan

Module Capacity	Permanent Dwelling	Residential Mobile Home	Caravan
1M	10	13	17
5M	51	64	85
10M	102	128	170

All 1M, 5M and 10M modules can be supplied in a single or twin-stream format. In the twin-stream format, the regulators are normally set up in an active and standby mode. The standby regulator would be set with an outlet pressure 0.1 bar below the active regulator pressure. In the event of active regulator failure, the standby regulator would come into operation, thus ensuring continuation of the gas supply.



10 million Btu/h twin-stream PRS in kiosk

The complete range can be supplied in a plastic coated stainless steel kiosk or mounted on a box section framework. The kiosk can be set into the ground or bolted to a concrete base. Access is via

an internally secured hinged front door and removable side panels that have drop latch locks. Modules on box section framework are of robust steel construction and galvanised for weather protection.

A new edition to the range is a 1M twin-stream module fitted into an underground pit. The module is assembled into an 18" x 18" pit complete with a concrete lid and is ideal for use with underground LPG storage tanks. This unit should only be used on installations where there is adequate drainage so as not to allow any ingress of water into the pit.

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1 million Btu/h twin-stream PRS in pit

