

Orpheus resurfaces: The new generation

Elster Instromet (UK) is the manufacturer and supplier of the popular and worldwide renowned "Orpheus Module", which was originally developed by IGA back in the early 1990's. Elster Instromet is building many Orpheus stations for the global market at their new facility in Melton Mowbray in the UK.

Developed to meet the demands of customers and developers, who were looking for solutions to overcome certain design and planning issues, the Orpheus is a completely self-contained pressure reduction module – designed specifically for below ground installation. Low noise emissions and minimal environmental impact are but two of the many benefits of the innovative Orpheus concept.

- Low noise levels – generally lower than 60 dBa.
- Simplified location and planning
- Eliminates the cost for housing/kiosk/building.
- Eliminates the need for maintenance of the housing/kiosk/building.
- Minimises vandalism to above ground apparatus.
- Reduces land costs.
- Orpheus is built using well proven components.
- It is simple to maintain.

The Series 10 Orpheus is used for numerous applications and may be used for inlet pressures covering the range of 140 mbar to 19 bar. The main regulator is Elster Instromet's well known "Axial Flow Valve" and is available in 50, 80, 100, 150, 200 and 300 mm sizes. The Series 10 Orpheus is used for applications that require high flow rates or for operation at higher inlet pressures. Designed primarily for the intermediate pressure (2 to 7 bar) range, the Series 10 is also suitable for use in applications up to 4 bar where the higher flow rate capacity of the Series 10 is required.

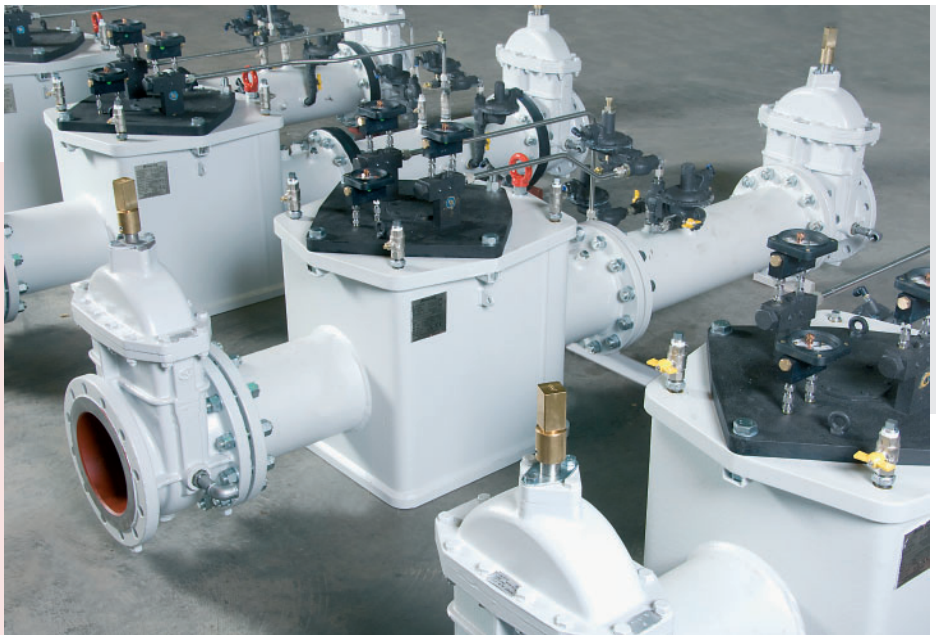


Fig. 1: Orpheus in production

The Series 4 Orpheus is available with 50, 80, 100 and 200mm regulators, has a design pressure of 4 Bar and can supply outlet pressure of 20 mbar to 350 mbar. Series 4 also utilizes the axial flow valve and is more suitable for:

- Lower flow district applications.
- Housing developments.
- Residential and commercial developments.
- Small industrial/commercial applications.
- Reinforcement of existing supplies.

There is an ever increasing requirement for cost effective, quick, gas connections with minimum lead times and minimum disruption at the installation site. Engineers, planners and installers all face a wide range of challenges in providing efficient, fast gas connections.

We are currently standardising modules even further to reduce the lead times significantly.

One of the most sensitive issues that developers and engineers are faced with is noise. The Orpheus is very subtle and noise levels are often well under 60 dBa which means that the Orpheus provides the ideal solution to reduce noise levels from pressure control stations. All Orpheus products have many benefits over the typical above ground pressure control stations.

Unlike the Series 10, the Series 4 is delivered with its own integral GRP pit enclosure and the whole item can be installed in a suitably sized hole in the ground. The inlet and outlet connections of the Series 4 are usually PE and therefore connection to the mains network is very easy. Orpheus Series 10 units will be supplied as single stream units which the customer will make connection to as desired, or if requested by the customer, steel manifolds can be supplied for twin or multiple stream units.

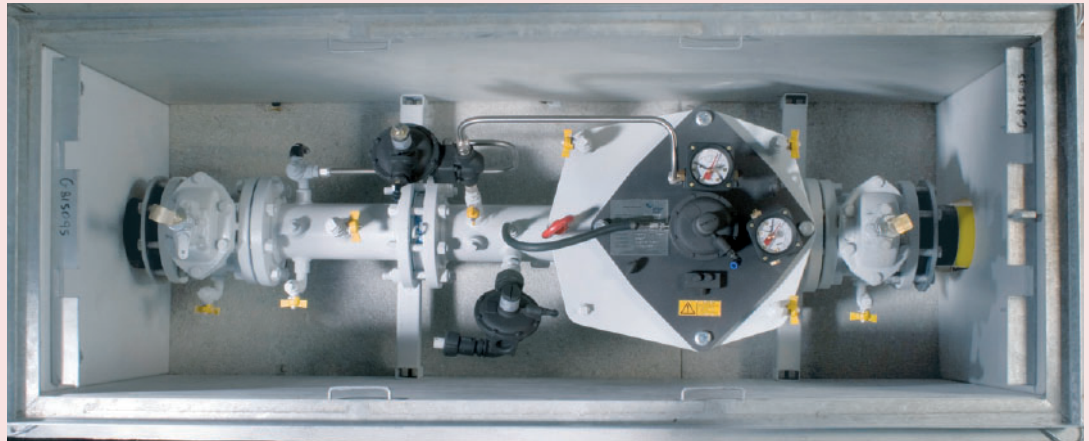


Fig. 2: Aerial view of Series 4 pit enclosure

All Orpheus Series 4 & Series 10 can be supplied as single, twin or multiple stream unit to meet any flow requirements. The multiple stream units have a unique stream balancing solution to enable several streams to flow simultaneously and so not fight against each other, to take lead of control. The units can be installed side by side or on opposite

sides of a road or even in the next street if space constraints are tight.

Elster Instromet (UK) is currently making new design considerations to the Orpheus Series 4 model to make maintenance even easier than it already is!! Watch this space for further innovation of the Orpheus concept.

For all information or pdf brochures on Orpheus Modules please contact sales@elster-instromet.co.uk

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Elster-Instromet received Certificate 3000th calibration at Westerbork

Elster-Instromet is one of the first customers of the NMI for high pressure gas calibrations. They already received the 1000th certificate in 1996 and now, again, a memorable number has been reached after the calibration of an ultrasonic gas meter. This time the NMI is very proud to present the 3000th certificate to Elster-Instromet.

With the rise of oil and gas prices the need for more accurate measurement is increasing. The milestone of reaching the 3000th calibration in the Bernoulli Laboratory at the Westerbork site is proof of that measurement demand. The official handover of the 3000th certificate took place at the Elster-Instromet offices in Essen. Frank Michels (Managing Director, Elster-Instromet Essen) proudly received the certificate together with the results of the calibration of the ultrasonic gas meter.



June 2008: Rudy van Diepstraten and Paul van Enckevort (NMI) congratulating Frank Michels, Managing Director, Elster-Instromet Essen (l to r).