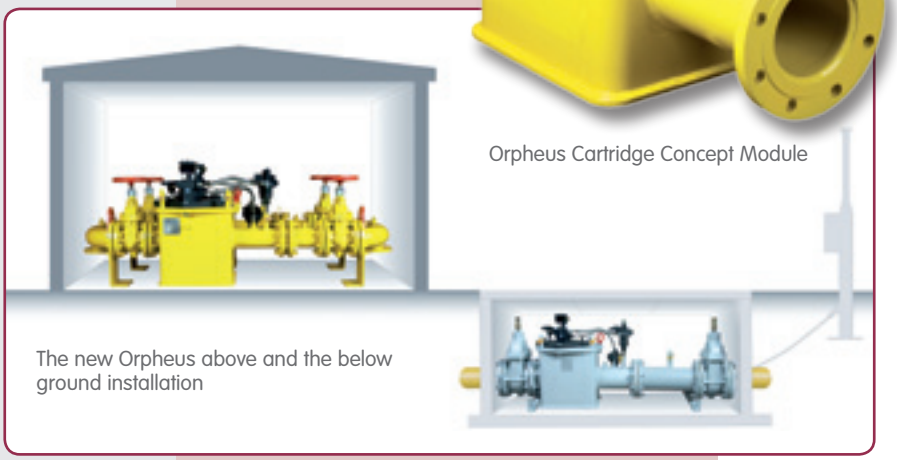
Elster Instromet UK and Elster Metering Limited are proud to present the latest version of Orpheus:

The new Orpheus … unleashed!

Orpheus Cartridge Concept Module

Originally designed on the principles of reliability, easy maintenance and low whole-life cost, the Orpheus has an excellent proven track record within the UK and global markets, offering a versatile solution for any natural gas network operator.

The Orpheus has recently undergone some major redevelopments to make it more adaptable to various applications, as determined by the customer's requirements. Many people will know that the Orpheus was originally developed as a completely self-contained pressure reduction module for "below ground installation". This has taken an about turn and the Orpheus can now be installed in above ground applications too.



The new Orpheus above and the below ground installation

Design benefits

Designed with maintenance and low whole-life cost in mind, all Orpheus variants have the same top access cartridge design, offering a wide range of benefits for any installation.

First, they have a smaller footprint than traditional pressure reduction stations resulting in reduced land costs. Second, the large filter area means inspection and maintenance periods are extended.

In addition to this, there is one single access point for maintenance or inspection of the filter, main regulator and the slam-shut device. The potential risk of leakage is reduced thanks to the minimal number of flanged joints. The design uses the well-proven and reliable axial flow valve and associated control pilots as well as a renowned ball and cage safety shut-off mechanism. A full range of control systems is available.

Applications

There are many different applications such as district installations, housing developments, mixed residential and commercial developments, along with small industrial developments. It can also be used for reinforcement applications in existing supply networks.

Benefits of below ground applications
Installing pressure reduction modules below ground offers an environmental benefit compared to the traditional above ground design and it was for this purpose that the Orpheus was originally developed.

There are many other advantages to below ground installations. Land costs can be eliminated or reduced and this is a key driver for urban installations. Noise levels are lower (less than 60 dBa) and below ground installations are much more aesthetically pleasing. Furthermore, the planning process is simplified. Cost savings are achieved by removing the necessity for a kiosk. The environmental impact is reduced as is the risk of sabotage, vandalism and their associated costs. Moreover, there is a lower risk of automobile collision for roadside installations.

Benefits of above ground applications

Where land and noise restrictions are not a constraint or where the prevailing climate conditions mean that an above ground module is preferred, Elster Instromet can provide the Orpheus in an above ground design, thus facilitating ease of access for maintenance. It has a smaller footprint compared to traditional AGI designs and a full range of kiosk options and finishes is available.

Options

As with conventional pressure reduction modules, the entire Orpheus range can be supplied with a vent stack, data logger, pressure gauges, alarms, clock control, profile control, stream selection and a metering system (with AMR).

The stream replacement option and the compact design of the Orpheus mean that "existing stations" can be easily upgraded without the need for expensive new connections.

The new additional range of options makes for an extremely versatile solution leaving almost nothing to be desired. Come and see for yourself. Further technical details or a brochure can be requested at: sales@elster-instromet.co.uk

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