

PRESS RELEASE

## Liquid Dosing Systems using flow meter controlled pumps

Bronkhorst High-Tech BV, specialists in low flow measurement and control, have introduced an alternative way for liquid flow control. Instead of using a liquid flow meter with integrated control valve, the new concept consists of a Thermal or Coriolis mass flow meter in combination with a close-coupled gear pump, covering ranges from 20 mg/h up to 600 kg/h. Flow control is achieved by utilising the integrated controller function on the pc-board of the liquid flow meter. The liquid dosing system accepts analog and RS232 setpoint as a standard and can optionally be equipped with various fieldbus interfaces. Applying a flow meter controlled pump eliminates the need to pressurise the liquid source with inert gas blanket or similar techniques.

In addition to the Bronkhorst LIQUI-FLOW<sup>®</sup> Pump for small flow ranges and low viscosities, a complete series of pumps is available for those applications which require higher flow rates, higher pressures, wide control ranges or aggressive fluids. All gear pumps are virtually pulsation free, thus avoiding the problem of pulsating flow patterns. Thanks to the combination with a mass flow meter, the dosing system is not volumetric but delivers mass flow with high accuracy. Applications can be found for instance in analytical laboratories, (petro-) chemical and food industry.

For more information contact:

BRONKHORST HIGH-TECH B.V.  
Nijverheidsstraat 1a  
7261 AK RUURLO  
The Netherlands

Tel.: +31 573 458800  
Fax: +31 573 458808  
E-mail: [sales@bronkhorst.com](mailto:sales@bronkhorst.com)



*Coriolis mass flow meter with  
close-coupled gear pump*

Enclosure: 1 picture