



DICHTOMATIK

Dichtomatik Limited  
Donington House Riverside Road Pride Park Derby DE24 8HX

**PRESS RELEASE DL028**

**PERFORMANCE ENHANCEMENTS FOR  
MASS FLOW CONTROLLERS**

Digital Mass Flow Controllers (MFC's), as typically used in the semiconductor, chemical processing, food and pharmaceutical industries, are designed to both measure and control the flow of various gases and liquids. Applications also occur where MFC's are used in analytical laboratories for High Pressure Liquid Chromatography. In many applications the gases and fluids are operating at modest temperatures up to 80°C, but can include aggressive media flows which necessitate the use of specialised chemical-resistant elastomer seals.

Most gas flow meters are equipped with seals made of DuPont™ Viton® fluoroelastomer. However MFC's need O-ring seals and other custom parts that do not swell in the presence of more aggressive chemicals utilised within their wide range of industrial applications. The sealing specialist Dichtomatik Ltd, is an authorised distributor for the DuPont™ Kalrez® range of sealing products, designed to give extended performance when operating with the widest range of chemicals, even incorporating elevated temperature conditions. Tests undertaken with an MFC, fitted with DuPont™ Kalrez® Spectrum™ 6375 O-rings and custom parts, increased reliability of operation and the overall Meantime Between Failures (MTBF) of the equipment.

Dichtomatik Limited

Donington House  
Riverside Road  
Pride Park  
Derby DE24 8HX

Tel: 01332 / 524400  
Fax: 01332 / 524404  
www.dichtomatik.co.uk  
Email@dichtomatik.co.uk

Company Reg. No.  
2188991  
V.A.T. Reg. No.  
507 6262 52  
Registered Office  
as above

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**BFPDA**

This increased reliability ensured a competitive advantage for the MFC manufacturer and a commercial advantage for the equipment user, as it reduced production down-times. A logistics saving was also achieved as the standardisation on Kalrez® parts for all the site modules led to a reduction in the worldwide inventory of different elastomer seals types for the company. A typical selection of specialised Kalrez® Spectrum™ seals and their particular qualities are detailed, offering minimal swell in various liquids, together with extended lifetime and performance characteristics:

Ref 6375 - for broadest chemical resistance

Ref 7075 - for highest service temperature (up to 327° C) and lowest compression set

Ref 7090 - for high hardness/higher module properties

Ref 3018 - general use in the chemical process and oil exploration industries

Ref 8085 - excellent mechanical strength, very low particle generation and longer seal life

Ref 9100 - for PECVD and HDPCVD processes, offering thermal stability, low erosion, good mechanical strength and excellent elastic recovery

Ref 6230 - superior chemical resistance and low contamination from extractables where FDA compliance is required

Further information is available from:

Dichtomatik Ltd, Donington House, Riverside Road, Pride Park, Derby DE24 8HX

Telephone: 01332 524401

Fax: 01332 524425

E-mail: [kalrez@dichtomatik.co.uk](mailto:kalrez@dichtomatik.co.uk)

[www.dichtomatik-kalrez.co.uk](http://www.dichtomatik-kalrez.co.uk)

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## General Information

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<b>Press Release No:</b>	DL028	
<b>Press or publishing inquiries to:</b>	Steve Lloyd <b>Enterprise Marketing Services Ltd</b> Tel: +44 (0) 1283 713185 Fax: +44 (0) 1283 716172 e-mail: <a href="mailto:info@enterprise-marketing.co.uk">info@enterprise-marketing.co.uk</a>	The Coach House 1 Dunstall Road Barton under Needwood Burton on Trent DE13 8AX United Kingdom
<b>Reader response inquiries to:</b>	Mr D Cook of Dichtomatik Ltd	
<b>Downloads:</b>	The press release text (MS Word and PDF format) and image are Available for download at: <a href="http://www.enterprise-marketing.co.uk/dl/DL028.html">www.enterprise-marketing.co.uk/dl/DL028.html</a>	
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*High performance DuPont™ Kalrez® O-ring seals available from Dichtomatik Ltd, for use with aggressive chemicals in a wide range of industrial applications covering the measurement and flow control of gases and liquids.*

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