



Lloyd's Register  
Energy

**Lloyd's Register EMEA**

## Validation Certificate

*This certificate is issued to:*

**APPLICANT:** Parker Hannifin Manufacturing Ltd  
Dukesway  
Team Valley Trading Estate  
Gateshead  
Tyne & Wear  
NE11 0PZ  
United Kingdom

**Product Description:** GL Plus Die-cast Filter Series

**Filtration Grades:** XLP High Efficiency Coalescing Filters

**Models:** GL2 - GL19 with Element Grade XLP

**Standards:** ISO12500-1:2007 Filters for Compressed Air - Test Methods - Part 1 Oil Aerosols  
ISO8573-1:2010 Contaminant and Purity Classes  
ISO8573-2:2007 Test Methods for Oil Aerosol Content  
ISO8573-4:2001 Test Methods for Solid Particle Content

*The filter models described above and in Table 1 have been tested at ISO reference conditions, in accordance with the requirements of ISO12500-1:2007. Die-cast filter models were challenged with 10mg/m<sup>3</sup> of oil aerosol.*

*The measured residual oil content downstream of the test filters averaged <0.01mg/m<sup>3</sup>, resulting in downstream air purity equal to Class 2 for oil as defined by ISO8573-1:2010.*

*The initial dry differential pressure measured across each filter tested did not exceed 70mbar (1psi) and the initial saturated differential pressure measured across each filter tested did not exceed 125mbar (1.8psi).*

*The filter models described above have been tested in accordance with the requirements of ISO8573-4:2001.*

*The filter removed particles down to 0.01 micron resulting in downstream air purity equal to Class 1 for solid particulate as defined by ISO8573-1:2010.*

*Details of the equipment, methodology and results are contained within the Technical Documentation File COV1527423/TDF.*

**Certificate No:** COV1527423/14

**Date of Issue:** 30<sup>th</sup> October 2015

**Certificate Issue** 2

**DG Hardacre on behalf of Lloyd's Register EMEA**

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