

Institut für Energie- und  
Umwelttechnik e.V. (IUTA)

Air Quality & Filtration  
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**- IUTA-CERTIFICATE -**  
**Validation of compressed air filters**  
**according to ISO 12500-3:2009<sup>1) 2)</sup>**

**(Filters for compressed air – Test methods – Particulates)**

- 1) According to the state of the art in particle measurement technology via online optical aerosol spectrometry particle sizes < 0.14 µm cannot be detected under pressure.
- 2) Particle size range: (0.19 – 2.74) µm

Customer: Dropout Technology Limited, Unit 22 Oakham Enterprise Park, Ashwell Road  
Oakham, Rutland, LE 15 7NZ , UK

Tested product: DO900S

IUTA test report: Data report 05 March 2015

Tested cartridge: Single measurement of three cartridges model DO900S

<b>Test parameter:</b>								
Inlet pressure		7 bar (e) [8 bar (a)]						
Air flow		48 Nm <sup>3</sup> /h = 100 % nominal flow rate						
Flow direction		from inside to outside						
Test aerosol		DEHS						
Particle size range		(0.19 – 2.74) µm						
Aerosol Spectrometer		PCS 2100 (Palas GmbH)						
<b>Test results:</b>								
<b>Particle-size range [µm]</b>	lower	0.19	0.24	0.36	0.52	0.81	1.15	1.78
	upper	0.24	0.36	0.52	0.81	1.15	1.78	2.74
<b>Average efficiency* [%]</b>		<b>90.11</b>	<b>91.51</b>	<b>93.71</b>	<b>96.45</b>	<b>99</b>	<b>99.81</b>	<b>100</b>

Remark: The product was tested under the designation DO900S

\* Averages were calculated from the data shown in the test report (mean values of 3 tests in filter housing model DO900S).

Duisburg, 12 March 2015

  
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Managing Director

  
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Department Head