



## Validation of compressed air filters according to ISO 12500-1:2007

(Filters for compressed air – Test methods – Oil aerosols)

Customer: HB Solucoes em ar comprimido, Rua Francisco Pedro do Amarai 334,  
Sao Paulo CEP 05334-110, Brasil

IUTA Test Results No.: FPZ 152/10-55955.00 and FPZ 152.2/10-55955.00

**Tested products: 3 filter cartridges model E017-A1**

<b>Test parameters:</b>				
Inlet pressure	7 bar(e) [8 bar(a)]			
Air flow for testing	55 m <sup>3</sup> /h (ANR)			
Test inlet oil concentration (Tellus C32)	ca. 10 mg/m <sup>3</sup>			
Threefold measurement per cartridge				
<b>Test results</b>	<b>Cartridge 1</b>	<b>Cartridge 2</b>	<b>Cartridge 3</b>	<b>mean value</b>
<b>Dry pressure drop* [mbar]</b>	49	47	46	<b>47</b>
<b>Saturated pressure drop** [mbar]</b>	162	182	141	<b>162</b>
<b>Mean outlet oil concentration [mg/m<sup>3</sup>] ***</b>	0.013 ± 0.006	0.013 ± 0.006	0.009 ± 0.004	<b>0.011 ± 0.005</b>

The cartridges were mounted in filter housing model A1-0017G.

- \* Pressure drop measured at the provided holes in the housing upstream and downstream the cartridge.
- \*\* No data acquisition during measurement 2 and 3.
- \*\*\* Average of the results of 3 analyses per cartridge with designation of standard deviation of analyses 1 – 3.  
Mean value: standard deviation of all 9 analyses.

Duisburg, 08.03.2011

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IUTA Test Results No.: FPZ 152/10-55955.00 and FPZ 152.2/10-55955.00

**Tested products: 3 filter cartridges model E017-A2**

<b>Test parameters:</b>				
Inlet pressure				7 bar(e) [8 bar(a)]
Air flow for testing				55 m <sup>3</sup> /h (ANR)
Test inlet oil concentration (Tellus C32)				ca. 10 mg/m <sup>3</sup>
Threefold measurement per cartridge				
<b>Test results</b>	<b>Cartridge 1</b>	<b>Cartridge 2</b>	<b>Cartridge 3</b>	<b>mean value</b>
<b>Dry pressure drop* [mbar]</b>	58	58	58	<b>58</b>
<b>Saturated pressure drop** [mbar]</b>	172	149	151	<b>157</b>
<b>Mean outlet oil concentration [mg/m<sup>3</sup>] ***</b>	0.008 ± 0.004	0.011 ± 0.008	0.006 ± 0.006	<b>0.008 ± 0.006</b>

The cartridges were mounted in filter housing model A1-0017G.

\* Pressure drop measured at the provided holes in the housing upstream and downstream the cartridge.

\*\* No data acquisition during measurement 2 and 3.

\*\*\* Average of the results of 3 analyses per cartridge with designation of standard deviation of analyses 1 – 3.  
Mean value: standard deviation of all 9 analyses.

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Bekanntgegebene Meßstelle für  
Messungen/Untersuchungen nach:  
§§ 26, 28 BImSchG  
Zertifizierter Entsorgungsbetrieb  
Zugelassene Prüfstelle im Sinne  
TA Luft 5.4.8.10.3, 5.4.8.11.3