

Certificate No. 85 A/L 2.2



Industrie Service

The TÜV SÜD Test Body for Vapour Recovery Systems, Westendstr. 199, D- 80686 Munich, certifies having conducted tests as specified in the following code:

„Measurement and test methods for the assessment of vapour recovery systems on filling stations – VDI 4205“
on the following vapour recovery system:

| | |
|--------------------------------------|---|
| Fuel –hose nozzle: | ELAFLEX ZVA 200 GRV3 / ELAFLEX ZVA SLIMLINE 2 GRV3 |
| Hose: | ELAFLEX Conti Slimline 21/8 Coax |
| A / L regulator valve ¹ : | ASGO, Type EMXX with control board: "Tokheim SAS" Type ECVR – SCS – self calibrating |
| Vapour valve ² : | ELAFLEX GRV3 is attached to the fuel hose nozzle |
| Vapour recovery pump: | Dürr, MEX 0831-10 / MEX 0831-11 / MEX 0544 |

Test results:

| | |
|---------------------------------|--|
| A / L | 99,4 % at volumetric fuel-flow rate 40l/min Proportionality in case of lower volume rates is within the allowed range as defined in the code (VDI 4205-4) |
| Average Efficiency ³ | 95,4 % |

The following general conditions must be observed during installation:

| | | |
|--|----------------------|----------------|
| Maximum volumetric fuel-flow rate: | 40 | l / min |
| Maximum counter pressure in recovery line: | 50 | mbar |
| Correction coefficient for system settings with air: | Not necessary | |

Germany

Munich, 07/18/2007

Issue: 12/21/2009



The officially authorized expert

Peter Szalata

Peter Szalata

¹ Regulates air (vapour) to liquid ratio

² opens the vapour path during liquid flow

³According to VDI 4205 in normal and 45° position using VW Polo as reference car under realistic fuelling conditions.

Certificate No. 85 A/L-10.2



Industrie Service

Waiting

The TUV SUD Test Body for Vapor Recovery Systems, Westendstr. 199, D-80686 Munich, certifies having conducted tests according to the following code: **"Measurement and test methods for the assessment of vapour recovery systems on filling stations- VDI 4205"** on the following vapour recovery system:

| | |
|------------------------------------|--|
| Fuel-hose nozzle: | Goodyear, GTR50 VR 4 PLM |
| Hose | ELAFLEX Conti Slimline 21/8 Coax |
| A / L regulator valve ¹ | ASCO, Model JV13285902.24/DC, Type EMXX with Control board: „Tokheim SAS“ Typ ECVR-SCS – self calibrating |
| Vapor valve ² : | Not required –if internal in fuel-hose nozzle |
| Vapor recovery pump: | Dürr, MEX 0831-11 |

Test results:

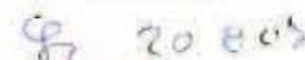
A/L **99,3 %** at volumetric fuel-flow rate 40 l/min
 Average³ efficiency **94,2 %**

The following general conditions must be observed during installation:

Maximum volumetric fuel-flow rate **40 l/min**
 Maximum counter pressure in recovery line **50 mbar**
 Correction coefficient for system settings with air: not necessary

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 Munich xxx 2007

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³ According to VDI 4205 in normal position and 45° position using VW Polo as reference car under realistic fueling conditions

Certificate No. 85 A/L-10.4



waiting

The TUV SUD Test Body for Vapor Recovery Systems, Westendstr. 199, D-80986 Munich, certifies having conducted tests according to the following code: "Measurement and test methods for the assessment of vapour recovery systems on filling stations- VDI 4205" on the following vapour recovery system:

| | |
|------------------------|--|
| Fuel-hose nozzle: | Goodyear, GTR50 VR 4 PLM |
| Hose | Goodyear Hardwall Petrol Hose |
| A / L regulator valve: | ASCO, Model JV13285902.24/DC, Type EMXX with Control board „Tokheim SAS“ Typ ECVR-SCS – self calibrating |
| Vapor valve: | Not required – is internal in fuel-hose nozzle |
| Vapor recovery pump: | Dürr, MEX 0831-11 |

Test results:

A/L **99,3 %** at volumetric fuel-flow rate 40 l/min
 Average³ efficiency **94,2 %**

The following general conditions must be observed during installation:

Maximum volumetric fuel-flow rate **40 l/min**
 Maximum counter pressure in recovery line **50 mbar**
 Correction coefficient for system settings with air: not necessary

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 Munich, xxxx 2007

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P. Szalata
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Certificate No. 85 A/L-8.9



Industrie Service

Waiting

The TUV SUD Test Body for Vapor Recovery Systems, Westendstr. 199, D-80686 Munich, certifies having conducted tests according the following code: **"Measurement and test methods for the assessment of vapour recovery systems on filling stations- VDI 4205"** on the following vapour recovery system:

| | |
|---------------------------------------|---|
| Fuel-hose nozzle: | OPW 12VW |
| Hose: | Goodyear Hardwall Petrol Hose |
| A / L regulator valve ¹⁾ : | ASCO, Model JV13285902.24/DC, Type EMXX with Control board: „Tokheim SAS“ Typ ECVR-SCS – self calibrating |
| Vapor valve ²⁾ : | Not required –if internal in fuel-hose nozzle |
| Vapor recovery pump: | Dürr, MEX 0831-11 |

Test results:

A/L **99,2 %** at volumetric fuel-flow rate 38 l/min

Average³⁾ efficiency **95,2 %**

The following general conditions must be observed during installation:

| | |
|--|-----------------|
| Maximum volumetric fuel-flow rate: | 38 l/min |
| Maximum counter pressure in recovery line: | 50 mbar |
| Correction coefficient for system settings with air: | not necessary |

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Peter Szalata

¹⁾ regulates air to liquid ratio

²⁾ opens the vapour path during liquid flow

³⁾ According to VDI 4205 in normal position and 45° position using the reference tank.

Certificate No. 85 A/L-8.7



Industrie Service

Waiting

The TUV SUD Test Body for Vapor Recovery Systems, Westendstr. 199, D-80686 Munich, certifies having conducted tests according the following code: **"Measurement and test methods for the assessment of vapour recovery systems on filling stations- VDI 4205"** on the following vapour recovery system:

| | |
|---------------------------------------|---|
| Fuel-hose nozzle: | OPW 12VW |
| Hose: | ELAFLEX Conti Slimline 21/8 Coax |
| A / L regulator valve ¹⁾ : | ASCO, Model JV13285902.24/DC, Type EMXX with Control board: „Tokheim SAS“ Typ ECVR-SCS – self calibrating |
| Vapor valve ²⁾ : | Not required –if internal in fuel-hose nozzle |
| Vapor recovery pump: | Dürr, MEX 0831-11 |

Test results:

A/L **99,2 %** at volumetric fuel-flow rate 38 l/min
 Average³⁾ efficiency **95,2 %**

The following general conditions must be observed during installation:

Maximum volumetric fuel-flow rate: **38 l/min**
 Maximum counter pressure in recovery line: **50 mbar**
 Correction coefficient for system settings with air: not necessary

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Gr. 20.8.07
 Peter Szalata

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Industrie Service

Certificate No. 85 A/L-2.4

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| | |
|--------------------------------------|--|
| Fuel-hose nozzle: | ELAFLEX ZVA 200 GRV 3 |
| Hose: | Goodyear Flexsteel Vapor Assist Hose |
| A / L regulator valve ¹ : | ASCO, Model JV13285902.24/DC, Type EMXX with Control board: „Tokheim SAS“ Typ ECVR-SCS – self calibrating |
| Vapor valve ² : | Not required –if internal in fuel-hose nozzle |
| Vapor recovery pump: | Durr, MEX 0831-11 |

Test results:

A/L **99,4 %** at volumetric fuel-flow rate 40 l/min
 Average³ efficiency **95,4 %**

The following general conditions must be observed during installation:

Maximum volumetric fuel-flow rate: **40 l/min**
 Maximum counter pressure in recovery line: **50 mbar**
 Correction coefficient for system settings with air: not necessary

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Pz. 20.8.07
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