



Industrie Service

Attestation of TA - Luft VDI 2440 and DIN EN ISO 15848-1

**Flowserve (Austria) GmbH
Control Valves- Villach Operation
Kasernengasse 6
9500 Villach
AUSTRIA**

Hereby, it is certified that the control valves FlowPro of the above mentioned company has been tested and accepted according to TA-Luft VDI 2440 and DIN EN ISO 15848-1. Details could be taken from the corresponding test report TR 08 002.

The product meets the following requirements:

German Clean Air Act [TA - Luft] in accordance with VDI 2440

- Operating conditions: Room temperature/64bar, 250°C / 64 bar
- Number of cycles : 0, 5.000, 10.000, 15.000, 20.000
- Attainment of the required surface pressure in the sealing system through assembly according to the operating manual.
- Visual inspection of the required surface pressure according to the operating manual.
- Specific packing design
- Quality of the packing materials in accordance with purchase order specifications
- Surface roughness in accordance with drawings
- Dimensions, shape and position tolerances in accordance with drawings
- Not spring loaded

Examination according to DIN EN ISO 15848-1

- | | |
|----------------------|----------------------------|
| ▪ Leakage class: | B |
| ▪ Working condition: | RT / 64bar, 250°C / 64 bar |
| ▪ Numbers of cycles: | 20.000 (CC1) |

The basis of attestation are the testing principles according to the German Clean Air Act (TA-Luft) VDI 2440 and DIN EN ISO 15848-1 which contains the observance of the specific leakage rate according to the German Clean Air Act [$\lambda \leq 1 \times 10^{-4}$ mbar x l/(s x m)] and DIN EN ISO 15848-1 [$\lambda \leq 1 \times 10^{-4}$ mg/s x m] under the above-mentioned operating conditions.

Product description:

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|------------------------------------|----------|-----------------|
| - FlowPRO V765 | 1" - 4" | Class 900, 1500 |
| - FlowPRO V760 | 1" - 12" | Class 600 |
| - FlowPRO V724 | DN25-300 | PN 63/100/160 |
| - Packing design: LATTYFLON 3260LM | | |

This certification is valid until November 2011

Munich, 27th November 2008

TÜV SÜD Industrie Service GmbH
Institute for Plastics


i.A. Schweizer





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Control Valves- Villach Operation
Kasernengasse 6
9500 Villach
AUSTRIA**

Hereby, it is certified that the control valves FlowPro of the above mentioned company has been tested and accepted according to TA-Luft VDI 2440 and DIN EN ISO 15848-1. Details could be taken from the associated test report TR 08 005.

The product meets the following requirements:

German Clean Air Act [TA - Luft] in accordance with VDI 2440

- Operating conditions: RT, 400°C / 56,4 bar
- Number of cycles : 0, 5.000, 10.000, 15.000, 20.000
- Attainment of the required surface pressure in the sealing system through assembly according to the operating manual.
- Visual inspection of the required surface pressure according to the operating manual.
- Specific packing design
- Quality of the packing materials in accordance with purchase order specifications
- Surface roughness in accordance with drawings
- Dimensions, shape and position tolerances in accordance with drawings
- Spring characteristic of the preloaded springs acc. with purchase order specifications.

Examination according to DIN EN ISO 15848-1

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|----------------------|---------------------|
| ▪ Leakage class: | B |
| ▪ Working condition: | RT, 400°C/ 56,4 bar |
| ▪ Numbers of cycles: | 20.000 (CC1) |

The basis of attestation are the testing principles according to the German Clean Air Act (TA-Luft) VDI 2440 and DIN EN ISO 15848-1 which contains the observance of the specific leakage rate according to the German Clean Air Act [$\lambda \leq 1 \times 10^{-2}$ mbar x l/(s x m)] and DIN EN ISO 15848-1 [$\lambda \leq 1 \times 10^{-2}$ mg/s x m] under the above-mentioned operating conditions.

Product description:

- FlowPro V765 1"-4" / Class 900,1500 / Stem diameter Ø 12 / Ø 16 / Ø 20 (Packing: Lattygraf 6940EF)
- Flow Pro V760 1"-12" / Class 600 / Stem diameter Ø 12 / Ø 16 / Ø 20 (Packing:Lattygraf 6940EF)
- FlowPro V724 DN25-DN300 / PN 63, 100, 160 Stem diameter Ø 12 / Ø 16 / Ø 20 (Packing: Lattygraf 6940EF)

This certification is valid until November 2011

Munich, den 27th November 2008

TÜV SÜD Industrie Service GmbH
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