



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

**Flowserve Control Valves GmbH
Kasernengasse 6
9500 Villach, Austria**

Hereby, it is certified that the control valves FlowTop 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 08 003.

The product meets the following requirements:

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

- Operating conditions: Room temperature / 51,1 bar, 250 °C / 41,9 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

- Leakage class: B
- Working condition: RT / 51,1 bar, 250 °C / 41,9 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 [$\lambda \leq 1 \cdot 10^{-4}$ mbar x l/(s x m)] and DIN EN ISO 15848-1 [$\lambda \leq 1 \cdot 10^{-2}$ mg/(s x m)] under the above-mentioned operating conditions.

Product description:

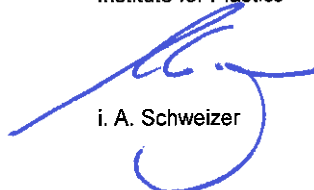
- FlowTop V740 / D740 ½" - 16" Class 150, 300
- FlowTop V738 / D738 ½" - 16" Class 150 / 300
- FlowTop V726 / D726 DN 15 - 400, PN 10, 16, 25, 40
- Packing design: LATTYFLON 3260 LM

This certificate will not be valid until Flowserve Control Valves GmbH has completed leak and material testing and prepared a manufacturer's certificate in accordance with EN 10204 2.2, including the exact type designation plus serial number.

This certification is valid until February 2018.

Munich, 24 February 2015

TÜV SÜD Industrie Service GmbH
Institute for Plastics


i. A. Schweizer

