



Italia

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Scegli la certezza.  
Aggiungi valore.

## TA-LUFT CERTIFICATE/FUGITIVE EMISSION CERTIFICATE

Technical Instruction on Air Quality Directives item 3.3.1.3 (VDI 2440:2000)

CERTIFICATE NUMBER: TAL - 048255 – 043

Company/Manufacturer: PENTA S.R.L. – 25080 Molinetto di Mazzano (BS)

Test Location: ALFA VALVOLE – Casorezzo (MI)

Time of testing: 30<sup>th</sup> & 31<sup>st</sup> July, 2013

Material tested: ball valve PENTA AP606 DN40 ANSI 600 RF, body material ASTM A105

Requirements and method: ASME Sect. V Art. 10 App. IX and VDI 2440 (2000)

Leak detection Method: Helium M.S. detector type ADIXEN ASM142

Gasket Material: Grafoil + Viton GLT

Acceptance criteria:  $1,0 \times 10^{-4}$  mbar·l/(s·m) ->  $9,11 \times 10^{-6}$  mbar·l/s

Test Results: max measured leakage  $1,5 \times 10^{-6}$  mbar·l/s -> SATISFACTORY

Valve rating: ANSI 600

Seal type: grafoil + Viton GLT o-ring

Temperature: 20°C

Dwg. Stem packing: I02500-DPL rev.A

**This certificate is valid only if referred to ALFA VALVOLE test report No. FER 2013/01**



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## CONCLUSIONS

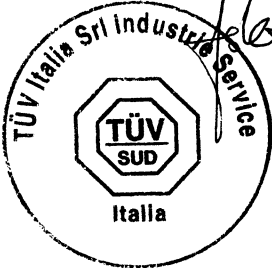
Taking into account the specific testing outfit and the type of leak detector instrumentation used, above described, the recorded leak values satisfy the TA LUFT as per VDI 2440 requirements with leaks lower than  $1,0 \times 10^{-4}$  mbar·l/(s·m).

The type of gasket tested satisfies the TA LUFT as per VDI 2440 equivalence criteria, taking however into account:

the presence of a test equipment as well as the loading recommended. The present qualification is valid for gaskets of different size but with the same design and material. Any change shall be evaluated and qualified.

**We hereby certify that the above listed item has been tested according to:  
requirements of TA LUFT as per VDI 2440 Ed. 2000 (Emission control mineral oil refinery)  
point 3.3.1.3, with satisfactory result**

TÜV  
INSPECTOR  
Vittorio Federici



CERTIFICATION DATE  
31/07/2013

MANAGEMENT OF INSPECTION  
SERVICE  
Gennaro Oliva