



CERTIFICATE

Certificate No.: 01 202 USA-TA-08-2911-2
Concerning the Agreement with the Technical Requirements in:

TA-Luft 2002, VDI 2440 Nov. 2000, Sec. 3.3.1.3

Test report: 10102911

Datum: 19 August, 2008

Client / Ordered : **AEGIS® Flow Technologies**

Manufacturer's Address : **6041 Industrial Drive
Geismar, LA 70734, U.S.A.**

The stem sealing system and internal flange connection have been successfully tested to meet the tightness criteria of $\leq 10^{-4}$ mbar x l/(s x m) with a helium mass spectrometer under the following conditions. The HPCV Valve with the examined dynamically loaded packing fulfills the requirements of Section 5.2.6.4 of The German Clean Air Act, (TA-Luft), (Leakage Verification) in accordance with Section 3.3.1.3 of VDI 2440 (Rev. 2000).

Kind of Valve:	Aegis® Chlorine Service High Performance Ball Valves	
Valve Type:	Series: HPCV/LC-300MC/SRS HPCV/LC-150MC	
Sealing System:	Dynamically Loaded PTFE Packing	
Nominal Size, Nominal Pressure:	2 inch, ANSI 300/PN40	
Inspection Media/Pressure:	Helium	16 Bars
Switching Cycles (10/min):	10/min.	Total Cycles 3,300
Leakage Rate : [mbar · l / (s · m)]	Results	3.0e-6 (in cm³/sec)
Testing Method:	Helium Leak Test – VDI 2440, Appendix A	
Torque Seal of Packing:	Proprietary to Aegis® Design	

The examined packing sealing system fulfills the standards/test criteria specified above. Basis for this certificate is not a type testing of a representative packing and includes production control.

Columbus, Ohio, USA
August 19, 2008

**TÜV Rheinland North America, Inc.
Industrial Services Division**

Kasuma J. Santos, Jr. – Mech. Engineer