

CERTIFICATE

Certificate No.: 01 202 USA/TA 10 5303-2

Concerning the Agreement with the Technical Requirements in:

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

Test report: 209169
Client : Fluoroseal, Inc.
Manufacturer's Address : 1875, 46e Avenue, Lachine
Montreal, OC H8T 2N8

The stem sealing system has 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 Fluoroseal FE Plug Valve fulfills the requirements of Section 5.2.6.4 of The German Clean Air Act, (TA-Luft).

Kind of Valve:	Non-Lubricated Plug Valve	
Valve Type:	FE Severe Service Seal configuration	
Sealing System:	FE Seal	
Nominal Size, Nominal Pressure:	1/2 - 14 inch, ANSI class 150 to 600 DN 15 to DN 350, PN 10 to PN 100	
Inspection Media/Pressure:	Helium / 100 bar	Temperature = Ambient
Switching Cycles: (4/min):	0 Cycles	Total Cycles 25000
Leakage Rate : [mbar · l / sec · m]	2.4 10E-6	1.6 10E-5
Testing Method:	Helium Leak Test – VDI 2440	
Torque Seal of Packing:	Proprietary to Fluoroseal, Inc.	

The examined sealing system fulfills the standards/test criteria specified above.



TÜV Rheinland Industrial Solutions
PEMT Division

Dipl. Ing Markus Hubig

Houston, TX November 18, 2010

TA-zertdeut

Rev C