

# CERTIFICATE

Nr. 0010/2016

The Materials Testing Institute University of Stuttgart certifies, the

**packing kit FLEU WH 161026  
consisting of 5 packing rings of graphite**

of

**Suzhou Fleu Valve Co., Ltd., No.767 Huagang Road  
Wujiang Economic Devel. Area, 215200 Suzhou/China**

was tested concerning specifications of VDI-Guideline 2440 (edition November 2000). The main boundary conditions were:

predeformation 3 x 50 MPa, prestress 30 MPa, 400 °C (temperature at the packing kit), with live load springs, 500 stem cycles with a stem stroke of 40 mm, 20 bar helium. After stem cycles leakage rate was determined at temperature by using the pressure drop method. The leakage rate complies with the requirement of VDI guideline 2440:

$$1.0 \cdot 10^{-2} \text{ mbar l / (s}\cdot\text{m)}$$

for temperatures above 250 °C.

**The packing kit can be considered to be of  
High Grade Performance according to TA Luft.**

This certificate is valid only in connection with our test report **903 2945 001** dated **December 14, 2016**. The test results relate only to the items tested.



Dr.-Ing. D.v.Mirbach  
Head of dep. Loading Analyses