



Certificate

The gasket type **PS Lippenmaterial F** of the manufacturer

Garlock GmbH

Falkenweg 1

41430 Neuss, Germany

has been tested in compliance with TA Luft in accordance with the VDI-Guideline 2200 (June 2005) by the Department of Gasketing Research of the University of Applied Sciences Münster. The test was verified in a first time test with following test conditions:

Seal measurements:	50 mm x 65 mm x 10 mm
Test presentation assembly:	Special assembly with 4x PS Lippenmaterial F and blocking medium (Assembly: see page 2)
Shaft revolution speed:	3 meters per second
Blocking medium:	Barrierta L 55/3 HV

The leak rate, measured at room temperature, with a helium mass spectrometer and a differential pressure of 1 bar resulted in a leak rate of:

$2.7 \cdot 10^{-6} \frac{\text{mbar} \cdot \text{l}}{\text{s} \cdot \text{m}}$ measured at standstill after 60 minutes running

$5.3 \cdot 10^{-6} \frac{\text{mbar} \cdot \text{l}}{\text{s} \cdot \text{m}}$ measured after 24 hours running

$5.3 \cdot 10^{-7} \frac{\text{mbar} \cdot \text{l}}{\text{s} \cdot \text{m}}$ measured after 24 hours standstill

The maximum accepted leak rate of $1.0 \cdot 10^{-4} \frac{\text{mbar} \cdot \text{l}}{\text{s} \cdot \text{m}}$ has not been exceeded.

The above mentioned gasket is in accordance with TA Luft.

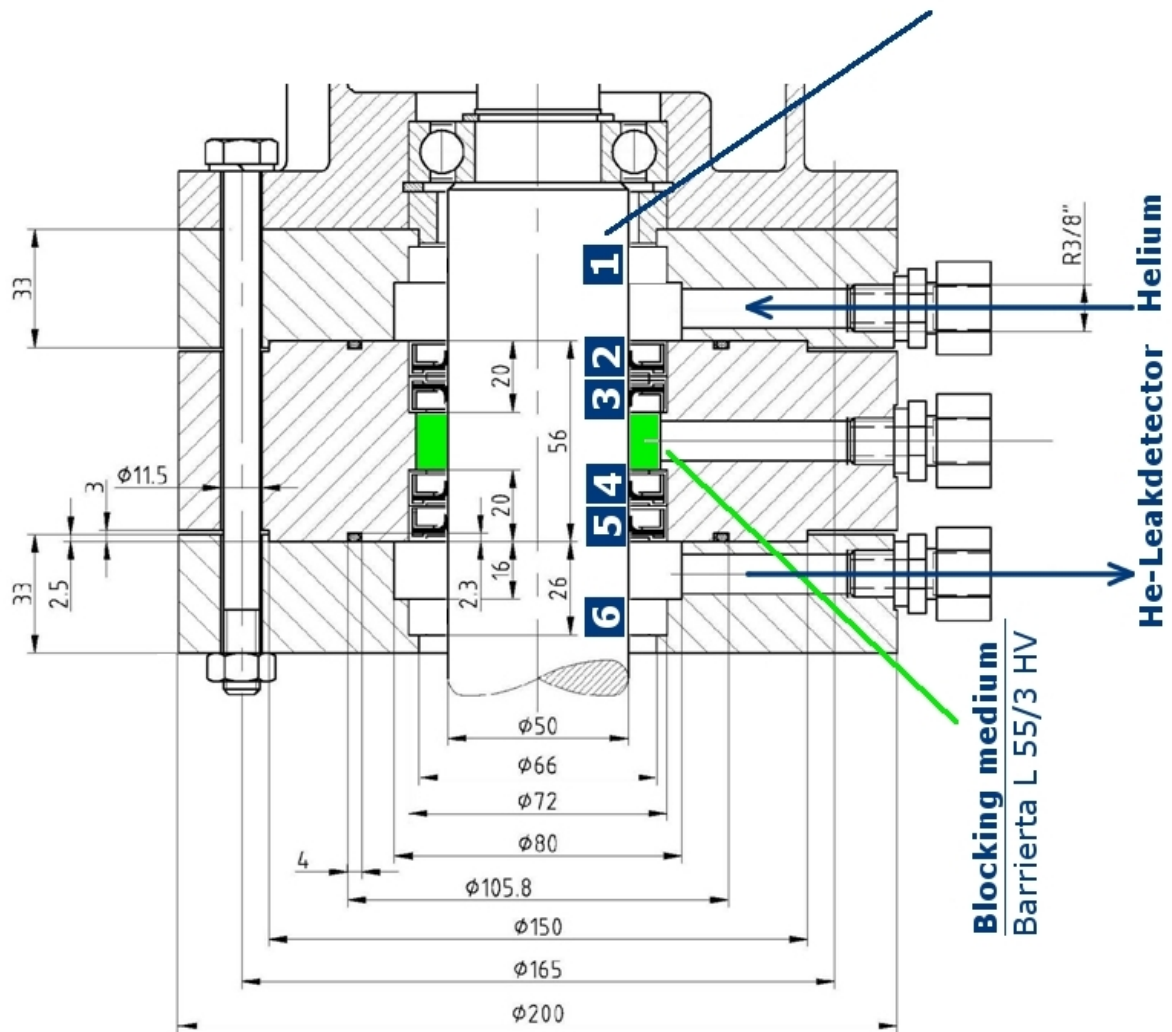
This test certificate is only valid in combination with the test report 08090501-1.

Steinfurt, 18 August 2009

Prof. Dr. A. Riedl

Testing assembly:

Process area



Pos.	Sealing	Direction of sealing lip
1	-	
2	L.-Material F	┌
3	L.-Material F	└
4	L.-Material F	┌
5	L.-Material F	┌
6	-	