



Certificate

Z-15062902-1

The flat gasket type
SICHEM S11
of the manufacturer

FMI S.p.A.
Via Consolare 41/43
25030, Zocco di Erbusco (BS)
ITALY

has been tested in compliance with TA Luft in accordance with the VDI-guideline 2200 (2007-06) by the Company GAIST GmbH. The test was verified in a first time test with following test conditions:

Initial gasket thickness:	1.5 mm
Test flange:	DN40/PN40, EN1092-1, type B, welding-neck, 1.4571
Initial gasket stress:	30 MPa
Thermal storage temperature:	200 °C
Thermal storage duration:	48 h
Test conditions:	23 °C

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:

$$3.0 \cdot 10^{-6} \frac{\text{mbar} \cdot \text{l}}{\text{s} \cdot \text{m}}$$

Residual gasket stress (Q_R): 16.7 MPa.

The maximum acceptable leak rate of $1.0 \cdot 10^{-4} \frac{\text{mbar} \cdot \text{l}}{\text{s} \cdot \text{m}}$ according to VDI-guideline 2440 (2000-11) has not been exceeded. The above-mentioned gasket is in accordance with TA Luft.

The blowout safety test in accordance to VDI-guideline 2200 resulted for

Test step 1 at Q_R :	60 bar, no blowout
Test step 2 at 5 MPa (Q_{Smin}):	60 bar, no blowout

This test certificate is only valid in combination with the test report 15062902-1.