



GORE® Joint Sealant DF



Technical bulletin – Blow-out security to VDI 2200

Product: GORE® Joint Sealant DF
Test dates: September 2006
Test institute: Fachhochschule Münster
Test procedures: Blow-out test series to VDI 2200 (draft 06-2005)

TEST OVERVIEW:

In the blow-out test to VDI 2200 (draft 06-2005), a DN40 flange of the required material and pressure level (here: steel and PN40) is equipped with a seal and heated to the required exposure temperature.

There are two test classes which can be undertaken: class A and class B.

In class A the cooled flange exposed to the set residual surface pressure has an internal pressure applied to it in steps of 5 bar. Class A is achieved if 1.5 times the nominal pressure is reached without any defined pressure drop being observed.

The class B test can only be attempted if class A has already been achieved. In this case, the residual surface pressure is reduced further to the Q_{Smin} value to be specified by the manufacturer (here: 5 MPa referenced to the initial width). The test procedure is as for class A. Class B cannot be tested if the residual surface pressure is already below Q_{Smin} after exposure to temperature.

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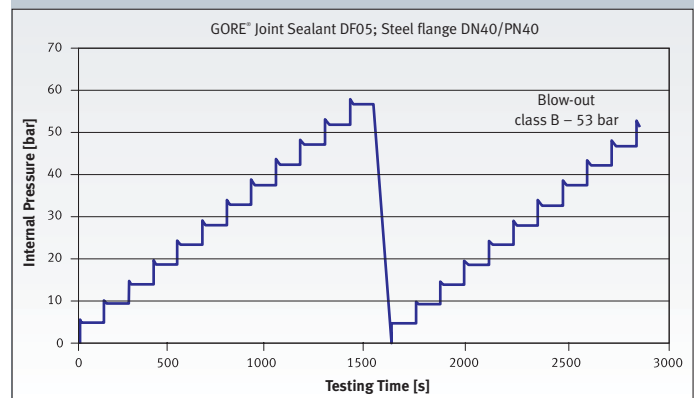
TEST RESULTS:

Type	Thickness [mm]	Flange type	Exposure temperature [°C]	Initial line force ¹⁾ [N/mm]
DF05*	2	DN40/PN40 steel	150	144

1) corresponds to 30 MPa initial surface pressure (initial width = 5 mm)

* DF05 = GORE® Joint Sealant DF05

Class A	Class B
60 bar	53 bar



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