
**Glass-reinforced thermosetting plastics
(GRP) pipes — Determination of the
resistance to cyclic internal pressure**

*Tubes en plastiques thermodurcissables renforcés de verre (PRV) —
Détermination de la résistance à la pression cyclique interne*

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Foreword

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Glass-reinforced thermosetting plastics (GRP) pipes — Determination of the resistance to cyclic internal pressure

1 Scope

This International Standard specifies a method for determining the resistance of glass-reinforced thermosetting plastics (GRP) pipes to cyclic internal pressure.

NOTE Whilst this standard refers to pipes, the procedure described can also be applied to fittings.

2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

2.1

cyclic pressure

pressure, expressed in bars¹⁾, which fluctuates about a specified value at a given frequency and with the same amplitude above and below the specified value

2.2

mean pressure

specified pressure level, expressed in bars, about which the pressure fluctuates

2.3

pressure amplitude

difference between the specified value, expressed in bars, of the cyclic pressure and the upper or lower pressure limit

2.4

cycle frequency

number of cycles per unit time, expressed in cycles per minute

2.5

cycle length

time taken for the pressure to change from the lower limit to the upper limit and then return to the lower limit

2.6

leakage

continuous loss of test fluid through the pipe wall to an extent detectable visually

2.7

bursting

rupture of the pipe wall with immediate loss of test liquid

1) 1 bar = 10^5 N/m² = 0,1 MPa