

ISO 7432:2021-04 (E)

Glass-reinforced thermosetting plastics (GRP) pipes and fittings - Test methods to prove the design of locked socket-and-spigot joints, including double-socket joints, with elastomeric seals

Contents	Page
Foreword.....	iv
Introduction.....	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	2
5 Apparatus	3
5.1 End-sealing devices.....	3
5.2 Supports.....	3
5.3 Source of hydrostatic pressure.....	3
5.4 Pressure gauges.....	3
5.5 Vacuum pump.....	3
5.6 Means of applying and measuring the required deformation and bending forces.....	3
6 Test pieces	4
6.1 General.....	4
6.2 Test arrangement for tests detailed in 9.2 and 9.6	4
6.3 Test arrangement for tests detailed in 9.3 and 9.4	4
6.4 Test arrangement for tests detailed in 9.5	5
6.5 Number of test pieces.....	7
7 Conditioning	7
8 Test temperature	7
9 Procedure	7
9.1 General.....	7
9.2 Negative pressure.....	8
9.3 Deformation with internal pressure and end thrust.....	9
9.4 Deformation with cyclic pressure and end thrust.....	9
9.5 Bending with cyclic pressure and end thrust.....	9
9.5.1 Introductory notes.....	9
9.5.2 Method A.....	10
9.5.3 Method B.....	10
9.6 Internal pressure and end thrust.....	11
10 Test report	11
Annex A (normative) Calculation of the additional force, F_A, and limiting deflection, Δ, used in 9.5, Method A	13
Annex B (normative) Calculation of the bending load, F_B, used in the bending test in 9.5, Method B	14