

ISO 8533:2019-08 (E)

Glass-reinforced thermosetting plastics (GRP) pipes and fittings - Test methods to prove the design of cemented or wrapped joints

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Principle	2
5	Apparatus	2
5.1	End sealing devices	2
5.1.1	General	2
5.1.2	Capable of applying the end loads	3
5.1.3	Not capable of applying the end loads	3
5.2	Supports	3
5.2.1	End thrust supports	3
5.2.2	Straps or cradles	3
5.2.3	Special supports	3
5.3	Source of hydrostatic pressure	3
5.4	Means of measuring the gauge pressure	3
5.5	Vacuum pump	3
5.6	Means for applying the required bending force	3
6	Test pieces	3
6.1	Test arrangement for tests detailed in 9.2, 9.4 and 9.5	3
6.2	Test arrangement for tests detailed in 9.3	4
6.3	Number of test pieces	6
7	Conditioning	6
8	Test temperature	6
9	Procedure	6
9.1	General	6
9.2	Negative pressure	7
9.3	Resistance to bending with pressure and end thrust	8
9.3.1	Method A	8
9.3.2	Method B	8
9.4	Resistance to internal cyclic pressure	9
9.5	Resistance to maintained internal pressure	10
9.6	Resistance to bolt-tightening torque	10
10	Test report	10
Annex A (normative)	Calculation of the additional force F_A and limiting deflection used in 9.3, Method A	12
Annex B (normative)	Calculation of the bending load F_B used in 9.3, Method B	13