

Contents		Page
Foreword.....		iv
Introduction.....		vi
1	Scope.....	1
2	Normative references.....	1
3	Terms and definitions.....	1
4	RPV design considerations and requirements.....	3
4.1	Design considerations.....	3
4.1.1	Resistance against vibration.....	3
4.1.2	Integrity under high flow.....	4
4.2	Design requirements.....	4
4.2.1	General.....	4
4.2.2	Valve outlet connection.....	4
4.3	Performance requirements for RPDs.....	4
4.3.1	Requirements for type 1 and type 2 RPDs.....	4
4.3.2	Additional requirements for type 1 RPDs.....	5
5	RPV type testing.....	5
5.1	General.....	5
5.2	Documentation.....	6
5.3	Test samples.....	6
5.4	Test report.....	7
5.5	Test temperatures.....	7
5.6	Test pressures.....	7
5.6.1	RPV test pressure.....	7
5.6.2	Other test pressures.....	7
5.7	Test gases.....	7
5.7.1	Gas quality.....	7
5.7.2	Verification of opening pressure and closing-off pressure.....	8
5.7.3	Leak tightness test in the reverse direction for type 1 RPDs.....	8
5.7.4	Endurance test.....	8
5.7.5	Oxygen pressure surge test.....	8
5.7.6	Vibration test.....	8
5.7.7	Integrity under high flow test.....	9
5.8	Test schedule.....	9
5.9	RPD performance tests.....	10
5.9.1	Strength test of the non-return function in the reverse direction for type 1 RPDs.....	10
5.9.2	Verification of opening pressure and closing-off pressure.....	10
5.9.3	Endurance test.....	11
5.9.4	Leak tightness test in the reverse direction for type 1 RPDs.....	11
5.9.5	Visual examination.....	12
6	Marking.....	12
Annex A (informative) Design considerations.....		13
Annex B (normative) Oxygen pressure surge test.....		14
Annex C (informative) Vibration test.....		15
Annex D (informative) Integrity under high flow test.....		16
Annex E (informative) Examples of test equipment.....		18
Bibliography.....		21