

# ISO 10427-3:2003-04 (E)

## Petroleum and natural gas industries - Equipment for well cementing - Part 3: Performance testing of cementing float equipment

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
1	Scope .....	1
2	Functions of cementing float equipment .....	1
3	Float equipment performance criteria .....	2
3.1	General .....	2
3.2	Durability under downhole conditions .....	2
3.3	Differential pressure capability from below .....	2
3.4	Ability to withstand force exerted through cementing plugs from above .....	2
3.5	Drillability of the equipment .....	2
3.6	Ability to pass lost circulation materials .....	2
3.7	Flow coefficient of the valve .....	2
3.8	Reverse-flow resistance of casing fill-up valves .....	2
4	Apparatus and materials .....	3
4.1	Flow loop .....	3
4.2	Circulating test fluid .....	4
4.3	High-temperature/high-pressure test cell .....	5
5	Durability test .....	7
5.1	Test set-up .....	7
5.2	Test categories .....	7
5.3	Procedure .....	8
6	Static high-temperature/high-pressure test .....	8
6.1	Test categories .....	8
6.2	Procedure .....	9
7	Test results .....	9
Annex A (informative)	Results of performance tests on cementing float equipment .....	10
Bibliography .....		11