

ISO 9906:2012-05 (E)

Rotodynamic pumps - Hydraulic performance acceptance tests - Grades 1, 2 and 3

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms, definitions, symbols and subscripts	1
3.1	Terms and definitions	1
3.2	Terms relating to quantities	3
3.3	Symbols and subscripts	9
4	Pump measurements and acceptance criteria	10
4.1	General	10
4.2	Guarantees	11
4.3	Measurement uncertainty	11
4.4	Performance test acceptance grades and tolerances	15
4.5	Default test acceptance grades for pump application	21
5	Test procedures	22
5.1	General	22
5.2	Date of testing	22
5.3	Test programme	22
5.4	Testing equipment	22
5.5	Records and report	22
5.6	Test arrangements	23
5.7	Test conditions	23
5.8	NPSH tests	23
6	Analysis	26
6.1	Translation of the test results to the guarantee conditions	26
6.2	Obtaining specified characteristics	27
Annex A (normative) Test arrangements		28
Annex B (informative) NPSH test arrangements		37
Annex C (informative) Calibration intervals		40
Annex D (informative) Measurement equipment		41
Annex E (informative) Tests performed on the entire equipment set -- String test		46
Annex F (informative) Reporting of test results		48
Annex G (informative) Special test methods		52
Annex H (informative) Witnessed pump test		53
Annex I (informative) Conversion to SI units		54

Annex J (informative) Measurement uncertainty for NPSH test	56
Bibliography	57