

Contents

	Page
Foreword	v
3.6 Rotary pump tests	1
3.6.1 Scope	1
3.6.2 Type of performance test	1
3.6.3 Terminology	2
3.6.4 Performance test	8
3.6.5 Hydrostatic test (optional)	17
3.6.6 Net positive inlet pressure required test (optional)	19
3.6.7 Rate of flow measurement	21
3.6.8 Measurement of pressure	23
3.6.9 Power measurements	25
3.6.10 Methods for rotational speed measurement	26
3.6.11 Temperature measurement	26
3.6.12 Suitable interval between calibrations for performance test instruments	26
Figures	
3.6.4.7.1 — Recommended test setup	11
3.6.4.9.5 — Speed correction values for pump input power for $x = 1.5$	16
3.6.4.10a — Pump performance at constant speed	16
3.6.4.10b — Pump performance at constant pressure	16
3.6.4.11.2 — Information data sheet	18
3.6.8a — Pressure tap opening with corrosion-resistant plug	23
3.6.8b — Welded-on pressure tap opening	23
3.6.8c — Loop manifold connecting pressure taps	23
3.6.8.1 — Use of calibrated Bourdon gauge	24
Tables	
3.6.3a — Symbols and terminology	3
3.6.3b — Subscripts	4
3.6.4.7.3 — Test tabulation	12
3.6.12 — Recommended instrument calibration interval	27