

# 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 .....	1
3.6.4 Performance test .....	8
3.6.5 Hydrostatic test (optional) .....	16
3.6.6 Net positive inlet pressure required test (optional) .....	18
3.6.7 Rate of flow measurement .....	20
3.6.8 Measurement of pressure .....	22
3.6.9 Power measurements .....	24
3.6.10 Methods for rotary speed measurement .....	25
3.6.11 Temperature measurement .....	25
3.6.12 Suitable interval between calibrations for performance test instruments .....	25
Appendix A Index .....	27
Figures	
3.6.4.7.1 — Recommended test setup .....	10
3.6.4.9.5 — Speed correction values for pump input power for $x = 1.5$ .....	15
3.6.4.10a — Pump performance at constant speed .....	15
3.6.4.10b — Pump performance at constant pressure .....	15
3.6.4.11.2 — Information data sheet .....	17
3.6.8a — Pressure tap opening with corrosion-related plug .....	22
3.6.8b — Welded-on pressure tap opening .....	22
3.6.8c — Loop manifold connecting pressure taps .....	22
3.6.8.1 — Use of calibrated Bourdon gauge .....	23
Tables	
3.6.3a — Symbols and terminology .....	3
3.6.3b — Subscripts .....	4
3.6.4.7.3 — Test tabulation .....	11
3.6.12 — Recommended instrument calibration interval .....	26