Contents

1 Scope **9**

2 Purpose **9**

3 Drawing symbol **9**

4 Specification characteristics **10**

4.1 Design characteristics 10

4.2 Performance characteristics 15

4.3 Additional terminology 19

4.4 Tabulated characteristics versus test requirements 21

5 Individual acceptance tests and calibrations **22**

5.1 Basic equipment 22

5.2 Calibration and test procedures 24

6 Qualification test procedures **26**

6.1 Initial performance tests (Figure 2) 26

6.2 Resolution test (Figure 6) 26

6.3 Weight test (Figure 6) 27

6.4 Dead volume test (Figure 6) 27

6.5 Volume change test (Figure 6) 27

6.6 Mounting test (Figure 6) 27

6.7 Loading test (Figure 6) 27

6.8 Dynamic response test (Figure 4a or 4b as applicable) 27

6.9 Temperature tests 28

6.10 Acceleration test (Figure 5) 29

6.11 Vibration test (Figure 5) 29

6.12 Tests for other environments (Figure 3) 30

6.13 Life test (Figure 3) 30

6.14 Burst pressure test (Figure 6) 30

7 Test report forms **30**

Annex A — References **39**

Figures

1 — Potentiometric pressure transducer individual acceptance test and calibration record 31
2 — Potentiometric pressure transducer initial performance test 32
3 — Potentiometric pressure transducer environmental test record 33
4a — Potentiometric pressure transducer dynamic response tests 34
4b — Potentiometric pressure transducer dynamic response tests (Sinusoidal Method) 35
5 — Potentiometric pressure transducer acceleration/vibration test record 36
6 — Transducer test report potentiometric pressure transducer 37
7 — Potentiometric pressure transducer individual acceptance test and calibration record (Static Error Band Calibration) 38