ISO 19973-4:2014-03 (E)

Pneumatic fluid power - Assessment of component reliability by testing - Part 4: Pressure regulators

Contents

Page

Foreword ... iv

Introduction ... v

1 Scope ... 1

2 Normative references ... 1

3 Terms and definitions ... 2

4 Symbols and units ... 2

5 Test equipment ... 2
5.1 Basic test equipment ... 2
5.2 Directional control valve ... 4
5.3 Volumes ... 4

6 Test conditions ... 4
6.1 General test conditions ... 4
6.2 Inlet and regulated pressures ... 5

7 Test procedure ... 5
7.1 Timing of checks and measurements ... 5
7.2 Type and scope of checks and measurements ... 5
7.3 Endurance test ... 5

8 Failure criteria and threshold levels ... 7
8.1 General ... 7
8.2 Functional failure ... 7
8.3 Failure due to leakage ... 7
8.4 Failure due to pressure characteristics ... 7
8.5 Customised agreements ... 7

9 Data analysis ... 7

10 Test report ... 8

11 Identification statement (reference to this part of ISO 19973) ... 8

Annex A (informative) **Flow chart illustrating the test procedure specified in this part of ISO 19973** ... 9

Annex B (informative) **Optional expanded test circuit** ... 10

Annex C (informative) **Test data sheet** ... 12

Bibliography ... 16