ISO 16030:2022-07 (E)

Pneumatic fluid power - Connections - Ports and stud ends

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms and definitions 2

4 Dimensional requirements 2

5 Performance requirements 2
5.1 Rated pressure range 2
5.2 Rated temperature range 2
5.3 Performance verification 2
5.4 Sealing devices 2

6 Test methods 3
6.1 General 3
6.1.1 Basic principles 3
6.1.2 Test fluid 3
6.1.3 Temperature 3
6.1.4 Material 3
6.1.5 Thread lubrication 3
6.2 Burst pressure tests 3
6.2.1 Principle 3
6.2.2 Material and torque requirements 3
6.2.3 Procedure and pressure rise rate 4
6.2.4 Pass/fail criteria 4
6.3 Leakage test 4
6.3.1 Principle 4
6.3.2 Material and torque requirements 4
6.3.3 Procedure 4
6.3.4 Pass/fail criteria 4
6.4 Cyclic endurance (impulse) test 4
6.4.1 Principle 4
6.4.2 Material and torque requirements 4
6.4.3 Procedure and pressure impulse cycle 4
6.4.4 Pass/fail criteria 5
6.5 Overtorque capability test 5
6.5.1 Principle 5
6.5.2 Material and torque requirements 5
6.5.3 Procedure 5
6.5.4 Pass/fail criteria 5
6.6 Long-term creep test 5
6.6.1 Principle 5
6.6.2 Material and torque requirements 5
6.6.3 Procedure 5
6.6.4 Pass/fail criteria 6

7 Designation 6

8 Identification statement -- Reference to this document 6

Annex A (informative) Examples of the sealing method 10

Annex B (informative) Distances between centrelines of ISO 16030 ports 11

Bibliography 14