ISO 6150:2018 (E)

Pneumatic fluid power — Cylindrical quick-action couplings for maximum working pressures of 1 MPa, 1,6 MPa, and 2,5 MPa (10 bar, 16 bar and 25 bar) — Plug connecting dimensions, specifications, application guidelines and testing

Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms and definitions

4 Dimensions and tolerances

5 Designation

6 Requirements

- 6.1 Material
- 6.2 Hardness
- 6.3 Surface finish
- 6.4 Corrosion protection
- 6.5 Number of couplings and uncouplings
- 6.6 Test pressures
- 6.7 Tests at extreme working temperatures
- 6.8 Limited rotation for self-alignment
- 6.9 Structural rigidity
- 6.10 Leakage

7 Application guidelines

- 7.1 Installation with vibrating tools
- 7.2 Coupling and uncoupling safety considerations

8 Testing

- 8.1 Accuracy of test equipment and instrumentation
- 8.2 Checking of compliance
- 8.3 Hydraulic test
- 8.4 Corrosion test
- 8.5 Test for structural rigidity
- 8.6 Operational tests
- 8.6.1 Disconnect force
- 8.6.2 Connect force
- 8.6.3 Measurement of leakage at maximum working pressure
- 8.6.3.1 Uncoupled
- 8.6.3.2 Coupled
- 8.6.4 Extreme temperature test at maximum working pressure
- 8.6.4.1 Maximum operating temperature, uncoupled
- 8.6.4.2 Maximum operating temperature, coupled
- 8.6.4.3 Minimum operating temperature, uncoupled
- 8.6.4.4 Minimum operating temperature, coupled

9 Identification statement (Reference to this document)

Page count: 15