## 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

9

- 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

Identification statement (Reference to this document)