ISO 8434-1:2018 (E)

Metallic tube connections for fluid power and general use — Part 1: 24° cone connectors

Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms and definitions

4 Materials

- 4.1 General
- 4.2 Connector bodies
- 4.3 Nuts
- 4.4 Cutting rings
- 4.5 O-rings

5 Pressure/temperature requirements

6 Designation of connectors

7 Requirements for tubes

8 Across#flats dimensions and tolerances

9 Design

- 9.1 Connectors
- 9.2 Dimensions
- 9.3 Passage tolerances
- 9.4 Angular tolerances
- 9.5 Contour details
- 9.6 Ports and stud ends
- 9.7 Stud end sealing

10 Screw threads

- 10.1 Cone ends and nuts
- 10.2 Stud ends (connection ends)

11 Manufacture

- 11.1 Construction
- 11.2 Workmanship
- 11.3 Finish
- 11.4 Corners

12 Assembly instruction

13 Procurement information

14 Marking of components

15 Performance and qualification test

- 15.1 General
- 15.2 Repeated assembly test

15.3 Proof test
15.4 Burst pressure test
15.5 Cyclic endurance (impulse) test
15.6 Vibration test
15.7 Leakage (gas) test
15.8 Overtightening test
15.8.1 Connectors with cutting rings
15.8.2 Connectors with O#ring seal cone (DKO)
15.9 Vacuum test

16 Identification statement (reference to this document)

Annex A (normative) Assembly instructions for 24° cone connectors using cutting ring conforming to ISO 8434-1

A.1 Cutting ring direct assembly into coupling body
A.2 Cutting ring pre-assembly using a manual pre-assembly adapter for final assembly in the connector body

Page count: 52