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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 14034.3-2024

**Connections for hydraulic fluid power - Metallic tube
connections - Part 3: Face seal
(English Translation)**

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Table of Contents

Preface
Introduction
1 Scope
2 Normative references
3 Terms and Definitions
4 Materials
5 Pressure and temperature requirements
6 Pipe fitting nomenclature
7 Metal pipe
8 Width across flats and tolerance
9 Design
10 Thread
11 Manufacturing
12 Assembly Guide
13 Purchasing Information
14 Marks
15 Performance requirements and qualification tests
16 Notes (reference this document)
Appendix A (Informative) Connection of O-ring face seal ends to metric/imperial metal pipes or swivel hose connectors
Appendix B (Informative) Typical Connections of O-Ring Face Seal Pipe Fittings
Appendix C (Normative) 1-14 UNS Unified Thread Specification Basic Dimensions
Appendix D (Normative) Formed Metal Pipe Connections with O-Ring Face Seal Pipe Fittings (for Unified Threads Only)
Appendix E (Normative) Length reduction of reducer pipe joints
Appendix F (Informative) Instructions for assembling stud-end adjustable pipe fittings in GB/T 2878.1 oil ports
References

Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents"

Drafting.

This document is part 3 of GB/T 14034 "Metallic pipe fittings for hydraulic transmission connections". GB/T 14034 has been published as follows part.

- Part 1.24° cone;
- Part 2.37° flared type;
- Part 3: End seals;
- Part 4.60° cone.

This document is modified to adopt ISO 8434-3:2005 "Metallic pipe connections for fluid power and general use - Part 3: O-ring face seal pipes Connector.

This document has the following structural adjustments compared to ISO 8434-3:2005.

- 15.1 corresponds to 15.1.1 in ISO 8434-3:2005, 15.2.1~15.2.7 correspond to 15.1.2~15.2.7 in ISO 8434-3:2005 15.1.7, 15.2;
- Figures 3 to 17 correspond to Figures 2 to 16 in ISO 8434-3:2005;
- Table 3 to Table 23 correspond to Table 2 to Table 22 in ISO 8434-3:2005;
- Appendix A corresponds to Appendix D of ISO 8434-3:2005;
- Appendix B corresponds to Appendix E of ISO 8434-3:2005;
- Appendix C corresponds to Appendix A of ISO 8434-3:2005;
- Appendix D corresponds to Appendix C of ISO 8434-3:2005;
- Appendix E corresponds to Appendix B of ISO 8434-3:2005.

The technical differences between this document and ISO 8434-3:2005 and their reasons are as follows.

- Changed the nominal outer diameter of the metal pipe or the inner diameter of the hose applicable to the end seal pipe joint, and added the corresponding specification in the text.

50mm (see Chapter 1, Table 1, Table 3, Table 5~Table 7, Table 10~Table 18, Table 21~Table 23) to adapt to my country's technical conditions Improve operability;

- Changed the terms and definitions (see Chapter 3, Chapter 3 of ISO 8434-3:2005) to adapt to the technical conditions of my country;

- The normative reference GB/T 17446 replaces ISO 5598, GB/T 14034.1 replaces ISO 8434-1, GB/T 14034.2 Replaced ISO 8434-2 (see Chapter 3) to adapt to my country's technical conditions and improve operability;

- ISO 3601-3 (see 4.4) has been replaced by the normative reference GB/T 3452.2 to adapt to my country's technical conditions and improve operability.

Sex;

- Added the naming method when the end face seal end is a common thread (see Chapter 6) to adapt to my country's technical conditions and improve operability Sex;
- Deleted the normative references to ISO 3304 and ISO 3305 (7.3 of ISO 8434-3:2005) to adapt to my country's technical requirements Improve operability;
- Added normative reference GB/T 3639 (see 7.3) to adapt to my country's technical conditions and improve operability;
- ISO 4759-1 (see 8.2) has been replaced by the normative reference GB/T 3103.1 to adapt to my country's technical conditions and improve operability.

Sex;

- Added the requirements for the side dimensions (see 8.2) to adapt to my country's technical conditions and improve operability;
- ISO 6149-2 (see 9.6) has been replaced by the normative reference GB/T 2878.2 to adapt to my country's technical conditions and improve operability.

Sex;

- ISO 263 (see 10.1) has been replaced by the normative reference GB/T 20670 to adapt to my country's technical conditions and improve operability.

Sex;

- Added the requirements for ordinary threads in the O-ring end seal (see 10.1) to adapt to my country's technical conditions and improve operability Sex;
- ISO 261 (see 10.1, 10.2) has been replaced by the normative reference GB/T 193 to adapt to my country's technical conditions and improve operability.

Sex;

- ISO 9227 (see 11.3) has been replaced by the normative reference GB/T 10125 to adapt to my country's technical conditions and improve operability.

Sex;

- Changed the requirements for purchasers in "Purchase Information" (see Chapter 13) to adapt to my country's technical conditions and improve operability;
- Replaced ISO 19879 (see Chapter 15) with the normative reference GB/T 26143 to adapt to my country's technical conditions and improve Operability;
- The pressure requirements that the pipe joints should meet have been added to the performance requirements (see 15.1) to adapt to my country's technical conditions and improve operability.

Sex;

--- The specifications of common threads and the corresponding dimensions and data (see Table 6, Table 7 and Table 10~Table 18, etc.) are added to the end face sealing end.

Adapt to the technical conditions of our country;

--- The normative reference GB/T 20666 replaced ISO 5864, and GB/T 20669 replaced ISO 68-2 (see Table 7, Table 10,

Table 12~Table 15, Table 21~Table 23) to adapt to my country's technical conditions and improve operability;

--- Added normative references to GB/T 197 (see Table 7, Table 10, Table 12~Table 15, Table 21~Table 23) to adapt to my country's technical conditions to improve operability;

---Change "Chamfer maximum 1mm" to "Chamfer maximum 0.5mm" (see Figure 6);

--- Added "g) Bulkhead joint assembly diagram" (see Figure 8) to improve operability;

--- Added the corresponding diameter reduction when the end face sealing end is a common thread and some standard end processing specifications (see Table E.1~

Table E.5) to adapt to my country's technical conditions and improve operability.

The following editorial changes were made to this document.

--- In order to coordinate with the existing standards, the name of the standard is changed to "Metallic pipe fittings for hydraulic transmission connections Part 3: End seals";

--- Replaced ISO 6149-1 with the informative reference GB/T 2878.1;

--- Replaced ISO 12151-1 with the informative reference GB/T 9065.1;

---Adjusted the footnotes of some tables;

---Added references.

Introduction

GB/T 14034 aims to standardize the technical requirements of metal pipe joints for hydraulic transmission connections and consists of four parts.

--- Part 1.24° cone. The purpose is to determine the general design requirements for 24° cone pipe fittings using ferrules or O-ring seals.

Requirements, basic dimensions, performance requirements and qualification tests.

--- Part 2.37° flared type. The purpose is to determine the 37° flared type pipe fittings suitable for metal pipes with an outer diameter of 6 mm to 50.8 mm.