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GB/T 40565.3-2021

**Connections for Hydraulic Fluid Power - Quick-action
Couplings - Part 3: Screw Connection Type for General
Purpose**

液压传动连接 快换接头

第 3 部分：螺纹连接通用型

[ISO 14541:2013, Hydraulic Fluid Power - Dimensions and Requirements for Screw-to-connect Quick-action Couplings for General Purpose, MOD]

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Foreword

This document was drafted in accordance with the rules of GB/T 1.1-2020 *Directives for Standardization - Part 1: Rules for the Structure and Drafting of Standardizing Documents*.

This document is Part 3 of GB/T 40565 *Connections for Hydraulic Fluid Power - Quick-action Couplings*. GB/T 40565 has issued the following parts:

- Part 2: Flush-face Type at 20 MPa to 31.5 MPa;
- Part 3: Screw Connection Type for General Purpose;
- Part 4: Screw Connection Type at 72 MPa.

This document uses the re-drafting method in the modification and adoption of ISO 14541:2013 *Hydraulic Fluid Power - Dimensions and Requirements for Screw-to-connect Quick-action Couplings for General Purpose*.

The technical differences between this document and ISO 14541:2013, and the causes for these differences are as follows:

- In terms of Normative References, this document makes adjustments with technical differences, so as to adapt to the technical conditions of China. The adjustments are intensively reflected in Chapter 2 “Normative References”. See the specific adjustments below:
 - a) GB/T 197, which modifies and adopts international standard, is used to replace ISO 965-1 (see Table 1);
 - b) GB/T 196, which modifies and adopts international standard, is used to replace ISO 724 (see Table 1);
 - c) GB/T 17446, which identically adopts international standard, is used to replace ISO 5598 (see Chapter 3);
 - d) ISO 18869 is used to replace ISO 7241-2 (see 5.3, 5.4, 5.5, 5.6, 5.7 and 5.8);
 - e) The reference to GB/T 2351 is added (see 4.2);
 - f) The reference to ISO 1302 in ISO 14541:2013 is deleted (see 4.1 of ISO 14541:2013).

This document makes the following editorial modifications:

- The title of the Standard is modified into *Connections for Hydraulic Fluid Power - Quick-action Couplings - Part 3: Screw Connection Type for General Purpose*;
- The unit of pressure “bar” is deleted.

Connections for Hydraulic Fluid Power - Quick-action Couplings - Part 3: Screw Connection Type for General Purpose

1 Scope

This document specifies the dimensions and requirements of general-purpose screw connection type of hydraulic quick-action couplings.

This document is applicable to the screw connection type of quick-action couplings for general-purpose hydraulic equipment.

2 Normative References

The contents of the following documents constitute indispensable clauses of this document through the normative references in the text. In terms of references with a specified date, only versions with a specified date are applicable to this document. In terms of references without a specified date, the latest version (including all the modifications) is applicable to this document.

GB/T 196 General Purpose Metric Screw Threads - Basic Dimensions (GB/T 196-2003, ISO 724:1993, MOD)

GB/T 197 General Purpose Metric Screw Threads - Tolerances (GB/T 197-2018, ISO 965-1:2013, MOD)

GB/T 2351 Fluid Power Systems and Components - Outside Diameters of Tubes and Inside Diameters of Hoses (GB/T 2351-2021, ISO 4397:2011, IDT)

GB/T 17446 Fluid Power Systems and Components - Vocabulary (GB/T 17446-2012, ISO 5598:2008, IDT)

ISO 18869 Hydraulic Fluid Power - Test Methods for Couplings Actuated with or without Tools

3 Terms and Definitions

What is defined in GB/T 17446, and the following terms and definitions are applicable to this document.

3.1 fluid loss

Fluid loss refers to the amount of fluid that leaks when the quick-action couplings are

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