



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

GB/T 40565.2-2021

**Connections for hydraulic fluid power. Quick-action couplings -
Part 2: Flush-face type at 20 MPa to 31.5 Mpa**

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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 2 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 16028.1999

Hydraulic Fluid Power - Flush-face Type, Quick-action Couplings for Use at Pressures of 20 MPa (200 bar) to 31,5 MPa (315 bar) - Specifications.

This document incorporates the amendments to ISO 16028.1999/Amd 1.2006. The clauses, to

which, these amendments relate, are marked by a double vertical line (||) in the outer margins.

The technical differences between this document and ISO 16028.1999, 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 2351, which identically adopts international standard, is used to replace ISO

4397 (see Chapter 4);

b) GB/T 7937, which modifies and adopts international standard, is used to replace ISO 4399 (see Table 2);

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 5.2, 5.3, 5.4, 5.5 and 5.6).

---The term and definition of "fluid loss" is added (see 3.1);

---The content of identification and marking is added (see Chapter 6 and Chapter 7).

This document makes the following editorial modifications.

---The title of the Standard is modified into Connections for Hydraulic Fluid Power -

Quick-action Couplings - Part 2.Flush-face Type at 20 MPa to 31.5 MPa;

Connections for Hydraulic Fluid Power - Quick-action

Couplings - Part 2.Flush-face Type at 20 MPa to 31.5 MPa

1 Scope

This document specifies the dimensions and requirements of different specifications of flush-

face type hydraulic quick-action couplings under a pressure of 20 MPa ~ 31.5 MPa.

This document is applicable to flush-face type hydraulic quick-action couplings for connecting

or disconnecting without pressure.

NOTE. when the quick-action couplings are disconnected in the connected state, the

separated

coupling end automatically seals the upstream and downstream fluids.

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 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 7937 Fluid Power Systems and Components - Connectors and Associated Components -

Nominal Pressures (GB/T 7937-2008, ISO 4399.1995, MOD)

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 disconnected.

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