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

GB/T 9065.6-2020

**Connections for hydraulic fluid power--Hose fittings - Part 6:
60° cone ends**

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Foreword

GB/T 9065 "Hydraulic drive connection hose connector" is divided into six parts.

---Part 1.O-ring face seal;

---Part 2.24° cone seal;

---Part 3.Flange type;

---Part 4.Stud end;

---Part 5.37° flare type;

---Part 6.60° cone.

This part is Part 6 of GB/T 9065.

This section was drafted in accordance with the rules given in GB/T 1.1-2009.

This section uses the redrafting method to modify the use of ISO 12151-6.2009 "Hydraulic transmission and general connection hose fittings Part 6

Points. 60° tapered hose connector using ISO 8434-6.

The technical differences between this part and ISO 12151-6.2009 and the reasons are as follows.

--- With regard to normative quotation documents, this part has been adjusted with technical differences to adapt to my country's technical conditions and adjustments

It is reflected in Chapter 2 "Regulatory Reference Documents" with specific adjustments as follows.

* Replace ISO 4397 with GB/T 2351 equivalent to the international standard (see Chapter 1, 5.1);

* Replace ISO 4759-1 with GB/T 3103.1 equivalent to international standards (see 6.2);

* Replaced ISO 228-1 with GB/T 7307 equivalent to international standards (see 6.5);

* Replaced ISO 6605 with GB/T 7939 modified to adopt international standards (see 4.1

and 4.3);

- * Replace ISO 9227 with GB/T 10125 equivalent to international standards (see 7.3);
- * Replace ISO 5598 with GB/T 17446 equivalent to international standards (see Chapter 3);
- * Replace ISO 19879 with GB/T 26143 equivalent to the international standard (see 4.3).
- Increase the surface roughness requirements of the sealing surface (see 7.2).

This section also made the following editorial changes.

- Modified the standard name;
- Deleted Note 2 in the provisions of Chapter 1.

This part is proposed by China Machinery Industry Federation.

This part is under the jurisdiction of the National Hydraulic and Pneumatic Standardization Technical Committee (SAC/TC3).

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1 Scope

This part of GB/T 9065 specifies the basis for the design and performance of a 60° tapered hose joint made of carbon steel (see Figure 1 for typical examples).

This requirement and size requirements.

This section applies to hoses with a nominal inner diameter of 5 mm to 51 mm (in accordance with the nominal hose inner diameter of GB/T 2351).

Note. If other materials are used, the supply and demand sides shall negotiate.

Explanation.

- 1---Hose connector;
- 2---O-shaped sealing ring;
- 3---nut;
- 4---straight stud end connector body (in accordance with ISO 8434-6);
- 5--- Oil port (conforming to GB/T 2878.1).

Figure 1 Typical example of 60° conical seal hose joint connection

2 Normative references

The following documents are essential for the application of this document. For dated reference documents, only the dated version applies to this article

Pieces. For the cited documents without date, the latest version (including all amendments) applies to this document.

GB/T 2351 Hard tube outer diameter and hose inner diameter for hydropneumatic system (GB/T 2351-2005, ISO 4397.1993, IDT)

GB/T 3103.1 Tolerances for fasteners Bolts, screws, studs and nuts (GB/T 3103.1-2002, ISO 4759-1.2000, IDT)

GB/T 7307 55° unsealed pipe thread (GB/T 7307-2001, eqvISO 228-1.1994)

GB/T 7939 hydraulic hose assembly test method (GB/T 7939-2008, ISO 6605.2002, MOD)

GB/T 10125 artificial atmosphere corrosion test salt spray test (GB/T 10125-2012, ISO 9227.2006, IDT)

GB/T 17446 Glossary of fluid transmission systems and components (GB/T 17446-2012, ISO 5598.2008, IDT)