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

GB/T 39309-2020

**Rubber hoses and hose assemblies. Wire-or textile-reinforced
single-pressure types for hydraulic applications. Specification**

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Standardization Administration**

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Foreword

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

This standard uses the translation method equivalent to ISO 18752.2014 "Rubber hose and hose assembly hydraulic steel wire or fabric reinforcement list

A pressure type specification.

The Chinese documents that have a consistent correspondence with the international documents cited in this standard are as follows.

---GB/T 1690-2010 Liquid resistance test method for vulcanized rubber or thermoplastic rubber (ISO 1817.2005, MOD);

---GB/T 5563-2013 Rubber and plastic hoses and hose assemblies hydrostatic test method (ISO 1402.2009,

IDT);

---GB/T 5565.1-2017 Rubber and plastic hoses and non-reinforced hose flexibility and stiffness measurement Part 1.Room temperature

Bending test (ISO 10619-1.2011, IDT);

---GB/T 5567-2013 Determination of the vacuum resistance of rubber and plastic hoses and hose assemblies (ISO 7233.2006, IDT);

---GB/T 5568-2013 rubber or plastic hose and hose assembly non-flexural hydraulic impulse test (ISO 6803.2008, IDT);

---GB/T 7528-2019 Rubber and plastic hoses and hose assemblies terminology (ISO 8330.2014, IDT);

---GB/T 9573-2013 Rubber and plastic hoses and hose assemblies hose size and hose assembly length measurement method (ISO 4671.2007, IDT);

---GB/T 9576-2019 Guidelines for the selection, storage, use and maintenance of rubber and plastic hoses and hose assemblies (ISO 8331.2016, IDT).

This standard has made the following editorial changes.

--- Delete the "bar" unit representation in the text, and only keep the "MPa" unit representation.

This standard was proposed by the China Petroleum and Chemical Industry Federation.

This standard is under the jurisdiction of the National Rubber and Rubber Products Standardization Technical Committee (SAC/TC35).

Drafting organizations of this standard. Guangzhou Rubber Hose Factory Co., Ltd., Shenyang Rubber Research and Design Institute Co., Ltd., and Zhongwang Branch of Zoomlion Heavy Industry Co., Ltd.

1 Scope

This standard specifies 10 types, 4 grades and 7 types of steel wire or fabric reinforced hydraulic rubber with a nominal inner diameter of 5 to 102

Requirements for hoses and hose assemblies. All specifications and each type have a single maximum working pressure, of which AS, AC, BS and BC type hoses are suitable

Used for HH, HL, HM, HR and HV oil-based hydraulic fluids that meet the requirements of ISO 6743-4 and the temperature is -40 degrees C~100 degrees C;

CS, CC, and DC hoses are suitable for HH, HL, HM, HR and HV oil-based hydraulic fluids with a temperature of -40°C to 120°C.

This standard does not include requirements for joints, and is limited to requirements for hoses and their assemblies. The maximum working pressure of the hose assembly is determined by each component

The minimum value of the maximum working pressure is determined.

Note. The user is responsible for consulting the hose manufacturer to determine the compatibility of the hose with the fluid used.

2 Normative references

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

For undated references, the latest version (including all amendments) applies to this document.

GB/T 5565.2-2017 Measurement of flexibility and stiffness of rubber and plastic hoses and non-reinforced hoses Part 2.Bending test below room temperature

GB/T 14905-2009 Determination of the adhesive strength between layers of rubber and

plastic hoses (ISO 8033.2006, IDT)

GB/T 24134-2009 Evaluation of ozone resistance of rubber and plastic hoses under static conditions (ISO 7326.2006, IDT)

ISO 1402 Rubber and plastic hoses and their assemblies hydraulic test

ISO 1817 Determination of the influence of vulcanized rubber liquid

ISO 4671 Rubber and plastic hoses and their hose assemblies, methods for measuring hose size and hose assembly length

ISO 6803 Rubber or plastic hose and hose assembly non-flexural hydraulic impulse test

ISO 7233 Rubber and plastic hoses and hose assemblies-Determination of vacuum resistance

ISO 8330 Rubber and plastic hoses and hose assemblies terminology

ISO 8331 Guidelines for the selection, storage, use and maintenance of rubber and plastic hoses and hose assemblies

ISO 10619-1 Rubber and plastic hose and pipe flexibility and stiffness measurement Partial bending test at room temperature

ISO 17165-1 Hydraulic Transmission Hose Assembly Part 1. Dimensions and Requirements