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

GB/T 39313-2020

**Rubber hoses and hose assemblies. Compact
wire-braid-reinforced hydraulic types for oil-based or
water-based fluids. 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 11237.2017 ``Rubber hoses and hose assemblies for transporting oil-based or water-based fluids

Specification for dense steel wire braided hydraulic type.

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 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 7631.2-2003 Classification of lubricants, industrial oils and related products (Class L) Part 2.Group H (hydraulic system) (ISO 6743-4.1999, IDT);

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

---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 9575-2013 rubber and plastic hose hose specifications and maximum and minimum inner diameter and cutting length tolerance (ISO 1307.2006, IDT);

---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 under static conditions for rubber and plastic hoses (ISO 7326:2006, 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., Shengli Oilfield Changlong Rubber and Plastic Co., Ltd., Shenyang Rubber Research and Design Institute Co., Ltd.

1 Scope

This standard specifies the requirements for five types of dense steel wire braided reinforced hoses and hose assemblies, with a nominal inner diameter ranging from 5 to 31.5.

These hoses are suitable for

---The oil-based hydraulic fluids HH, HL, HM, HR and HV defined by ISO 6743-4, with a temperature range of -40°C to 100°C;

---Water-based hydraulic fluids HFC, HFAE, HFAS and HFB defined by ISO 6743-4, with a temperature range of 0 degrees C~ 60 degrees C;

---Water, the temperature range is 0 degrees C~60 degrees C.

This standard does not include the requirements for hose joints, only the requirements for hoses and hose assemblies.

Note. It is the user's responsibility to consult with 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 5565.1-2017 Measurement of flexibility and stiffness of rubber and plastic hoses and non-reinforced hoses Part 1.Room temperature bending test (ISO 10619-1:2011, IDT)

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 (ISO 10619-2.2011, IDT)

ISO 1307 rubber and plastic hose hose size and maximum and minimum inner diameter and cutting length tolerance

ISO 1402 Rubber and plastic hoses and hose assemblies hydrostatic test method

ISO 1817 Test method for liquid resistance of vulcanized rubber

ISO 4671 Rubber and plastic hoses and hose assemblies, hose size and hose assembly length measurement method

ISO 6605 Hydraulic transmission hose and hose assembly test method

ISO 6743-4 Classification of lubricants, industrial oils and related products (Class L) Part 4.Group H (hydraulic system)

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