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**MACHINERY INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

中华人民共和国机械行业标准

JB/T 8727-2004

Replace JB/T 8727-1998, JB/T 8885-1999

Hydraulic fluid power – Hose assemblies

液压软管 总成

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Foreword

This Standard is a revision for JB/T 8727 – 1998 *Hydraulic Fluid Power – Hose Assemblies*, during the revision, the contents of JB/T 8885 – 1999 *Technical Conditions for Hose Assemblies of Hydraulic Fluid Power* are merged into this Standard.

Compared with the previous edition, this Standard has the following changes:

-- Adjust S16, S18, S21 and S 24 in Table 1 of original JB/T 8727 standard into S14, S17, S19 and S22 respectively, and adjust S16, S18, S21, S24 and S41 in Table 3 into S14, S17, S19, S22 and S36 respectively. The L dimension in Figure 1 ~ 3 of the original standard is adjusted.

-- Compared with the original JB/T 8885 standard, this Standard proposes the tolerance requirements for the hose assemblies' flexural core.

-- Adjust the tensile strength of the connector materials of the hose assemblies to meet the requirements of swaging assembly and reliability of the hose assemblies. Change the low-temperature bending test item in the Test Items and Test Methods into "Test can be conducted as required by the users, and there is no need to conduct the test without the users' request".

-- The newly-added flange hose assemblies and 24° cone sealing hose assemblies adopt the connectors specified in international standard ISO 6162: 1994 and ISO 8434. 4: 1995.

-- Annex A of this Standard stipulates the mandril size or steel ball size of the steel wire braided hose and steel wire wound hose respectively.

This Standard replaces the abolished JB/T 8727 – 1998 and JB/T 8885 – 1999.

Annex A, B and C of this Standard are normative annexes.

This Standard is proposed by China Machinery Industry Federation.

This Standard is under the jurisdiction of National Technical Committee for Standardization of Hydraulics & Pneumatics (SAC/TC3).

Main drafting units for this Standard: Tianjin Research Institute of Construction Machinery, Ningbo Yonghua Hydraulic Equipment Co. , Ltd. , and Ansteel Hydraulic Accessory Factory.

Main drafters for this Standard: Feng Guoxun, Zhou Shunhua, and Liu Xiaoping.

Previous editions that this Standard replaces are as follows:

-- JB/T 8727 – 1998

-- ZB J22 008 – 1988, JB/T 8885 – 1999

Hydraulic fluid power – Hose assemblies

1 Scope

This Standard stipulates the product categories, basic parameters, connection dimension, operational performance, technical conditions, test methods, inspection rules, marks, packaging, storage, transportation, etc. of flared (nominal inner diameter 5mm~31.5mm), ferrule (nominal inner diameter 5mm~38mm), welding (or quick-change, nominal inner diameter 5mm~51mm) and flange and 24° cone sealing steel wire reinforced hydraulic rubber hose assemblies (hereinafter “steel-wire-braided hydraulic hose assemblies”) and steel-wire-wound reinforced hydraulic rubber hose assemblies (hereinafter “steel-wire-wound hydraulic hose assemblies”).

This Standard applies to the steel-wire-braided hydraulic hose assemblies (working temperature range: $-40^{\circ}\text{C} \sim +100^{\circ}\text{C}$), Type 1~5 steel-wire-wound hydraulic hose assemblies (working temperature range: $-40^{\circ}\text{C} \sim +100^{\circ}\text{C}$), as well as Type 6 steel-wire-wound hydraulic hose assemblies (working temperature range: $-10^{\circ}\text{C} \sim +121^{\circ}\text{C}$) with hydraulic oil (fluid) as the working medium.

2 Normative references

The articles contained in the following documents have become this Standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 3 Run-outs, undercuts and chamfers for general purpose metric screw threads (GB/T 3-1997, eqv ISO 3508: 1976, ISO 4755: 1983)

GB/T 196 General purpose metric screw threads—Basic dimensions

GB/T 197 General purpose metric screw threads—Tolerances

GB/T 699 Quality carbon structural steels

GB/T 1184-1996 Geometrical tolerancing-Geometrical tolerances for features without

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