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**QC**

AUTOMOBILE INDUSTRY STANDARD  
OF THE PEOPLE'S REPUBLIC OF CHINA

ICS 43.040.40

T 24

**QC/T 764-2015**

Replacing QC/T 764-2006

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**Road vehicles - Hydraulic braking system -  
Simple flare pipes, tube tapped holes,  
male fittings and hose end fittings**

道路车辆 液压制动系统 单喇叭口金属管、螺纹孔、螺纹接头及软管端部接头

**Issued on: April 30, 2015**

**Implemented on: October 01, 2015**

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**Issued by: Ministry of Industry and Information Technology of PRC**

**Annex:**

**Numbers, standard names and initial implementation dates of 17 automotive industry standards**

S/N	Standard number	Standard name	Standard number being substituted	Initial implementation date (YYYY-MM-DD)
287	QC/T 991-2015	Passenger cars - Light alloy wheels - 90° impact test procedure		2015-10-01
288	QC/T 717-2015	Road vehicle – Wheels - Requirements and Measuring methods of radial and lateral run-out	QC/T 717-2004 ISO 16833:2006, MOD	2015-10-01
289	QC/T 52-2015	Refuse collection vehicle	QC/T 52-2000	2015-10-01
290	QC/T 652-2015	Suction-type sewer scavenger	QC/T 652-2000	2015-10-01
291	QC/T 992-2015	Municipal emergency service vehicle		2015-10-01
292	QC/T 993-2015	Explosive transport vehicle		2015-10-01
293	QC/T 994-2015	Demountable tanker carrier		2015-10-01
294	QC/T 995-2015	Hydrostatic drive modular transporter		2015-10-01
295	QC/T 764-2015	Road vehicles - Hydraulic braking system - Simple flare pipes, tube tapped holes male fittings and hose end fittings	QC/T 764-2006	2015-10-01
296	QC/T 239-2015	Specifications and bench test methods for commercial vehicle service brake	QC/T 239-1997 QC/T 479-1999	2015-10-01
297	QC/T 996-2015	Specifications and bench test methods of automobile air dryer		2015-10-01
298	QC/T 997-2015	Passenger car full load overall frame body structure requirements		2015-10-01
299	QC/T 998-2015	The Technical Specification of		2015-10-01

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## Foreword

This standard was prepared in accordance with the rules given in GB/T 1.1 - 2009 "Directives for standardization - Part 1: Structure and drafting of standards".

This standard replaces QC/T 764-2006 "Motor vehicles - Hydraulic braking systems - Pipes tapped holes male fittings and hose end fittings". As compared with QC/T 764-2006, the main technical changes are as follows:

- MODIFY the basic dimensions, limit deviations and rupture pressures of some pipes (see Table 1; Table 1 of the 2006 version);
- MODIFY the yield strength of the metal pipe material from 200 MPa to 180 MPa (see Table 2; Table 3 of the 2006 version);
- For the salt spray test standard, USE GB/T 10125-2012 to replace GB 2423.17 (see 3.1.3 and 3.4.2; 3.4 of the 2006 version);
- MODIFY the surface treatment requirements for metal pipes and threaded joints (see 3.1.3 and 3.4.2; 3.4 and 5.2 of the 2006 version);
- MODIFY the tolerance of  $D_3$  (see Table 3; Table 2 of the 2006 version);
- ADD two new types of tapped hole openings (see Figure 2b and Figure 3);
- MODIFY the tolerance of  $D_7$  and the dimensions of  $L_1$ ; ADD the dimensions of  $D_{10}$ ; DELETE the dimensions of  $L_7$  (see Table 4; Table 4 of the 2006 version);
- MODIFY the dimensions of the opening of wrench for tapped fittings (see Table 5; Table 5 of the 2006 version);
- MODIFY the minimum rupture torque of the  $M10 \times 1$  and  $M12 \times 1$  tapped fittings (see Table 6; Table 6 of the 2006 version).

This standard was drafted by the redrafting method and with reference to ISO 4038:1996 "Road vehicles - Hydraulic braking system - Simple flare pipes, tube tapped holes, male fittings and hose end fittings". The degree of conformity with ISO 4038 is not equivalent.

Please note that this standard may involve patents. The issuing organization of this standard does not assume responsibility for identifying these patents.

This standard was proposed by and shall be under the jurisdiction of the National Automotive Standardization Technical Committee (SAC/TC 114).

## **Road vehicles - Hydraulic braking system -**

### **Simple flare pipes, tube tapped holes,**

### **male fittings and hose end fittings**

## **1 Scope**

This standard specifies the basic dimensions, performance, material requirements for simple flare pipes (hereinafter referred to as “metal pipes”), tube tapped holes, male fittings and hose end fittings for hydraulic braking system of road vehicles.

This standard applies to road vehicles which are equipped with hydraulic braking systems.

## **2 Normative references**

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this standard.

GB/T 10125-2012 Corrosion tests in artificial atmospheres - Salt spray tests

YB/T 4164 Double wall copper-brazed steel tubing

## **3 Technical requirements**

### **3.1 Metal pipe**

#### **3.1.1 Basic requirements.**

The basic dimensions, rupture pressure, average linear density of metal pipes shall comply with the requirements of Table 1. It may apply plating to the outer surface of the metal pipe, but it shall meet the requirements for the use of inner and outer tube fittings and hose end fittings as specified in this standard.

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