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

ICS 43.040.10

T 24

QC/T 200-2015

Replacing QC/T 200-1995

**Performance requirements and test methods of reservoir
for air brake equipment of automobile and trailer**

汽车和挂车气压制动装置用储气筒性能要求及试验方法

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Ministry of Industry and Information Technology approved 543 industry standards such as the "Calcium carbide furnace" (standard number, name, main content and the date of implementation are as shown in Appendix 1), including 48 mechanical industry standards, 16 automotive industry standards, 15 aviation industry standards, 13 pharmaceutical industry standards, 58 light industry standards, 86 textile industry standards, 68 chemical industry standards, 16 metallurgical industry standards, 50 building materials industry standards, 21 petrochemical industry standards, 2 nonferrous metals industry standards, 3 nuclear industry standards, AND 147 communications industry standards, which are all announced hereby.

Appendix: Number, name, and date of implementation of 16 automotive industry standards.

Ministry of Industry and Information Technology of the
People's Republic of China

July 14, 2015

Appendix:

Number, name, and date of implementation of 16 automotive industry standards

No.	Standard number	Standard name	Number of standard replaced	Date of implementation
49	QC/T 1002-2015	Test method of durability in CH-DY for motorcycles and mopeds		January 01, 2016
50	QC/T 1003-2015	Determination of precious metal in metal support catalytic converter for motorcycles		January 01, 2016
51	QC/T 1004-2015	Performance requirements and bench test methods of automobile electric vacuum pump		January 01, 2016
52	QC/T 200-2015	Performance requirements and bench test methods of reservoir for air brake equipment of automobile and trailer	QC/T 200-1995	January 01, 2016
53	QC/T 35-2015	Automobile and trailer – Specifications and bench test methods of pressure control equipment	QC/T 35-1992, QC/T 36-1992	January 01, 2016
54	QC/T 37-2015	Automobile and trailer – Specifications and test methods of bench for pressure regulator and protector	QC/T 37-1992, QC/T 38-1992	January 01, 2016
55	QC/T 77-2015	Specifications and bench test methods of automobile hydraulic brake wheel cylinder	QC/T 77-1993	January 01, 2016
56	QC/T 1005-2015	Specifications and bench test methods of automobile antilock braking system electromagnetic-hydraulic modulator		January 01, 2016
57	QC/T 1006-2015	Specifications and bench test methods of automobile antilock braking system solenoid modulator for pneumatic		January 01, 2016
58	QC/T 1007-2015	Evaluating filtration performance of fuel filters for automobiles – Method of particle counting		January 01, 2016
59	QC/T 1008-2015	Specifications of tank ventilation filters		January 01, 2016
60	QC/T 1009-2015	Specifications of passenger car automatic transmission filters		January 01, 2016
61	QC/T 1010-2015	Specifications and bench test methods of clutch hydraulic pressure boosting system booster		January 01, 2016
62	QC/T 1011-2015	Technical requirements and bench		January 01,

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009 “Directive for standardization – Part 1: Structure and drafting of standards”.

This standard replaces QC/T 200-1995 (Performance requirements and test methods of reservoir for air brake equipment of automobile and trailer). As compared with QC/T 200-1995, the main technical changes are as follows:

- DEFINE the reservoir structural form to which this standard is applicable (SEE Chapter 1; Chapter 1 of 1995 version);
- ADD the strength requirements for multi-chamber reservoir baffles (SEE 3.2.2 and 5.1.2);
- ADD the sealing requirements for one-way valve between multi-chamber reservoir (SEE 3.3.2 and 5.2.2);
- MODIFY the test methods and evaluation methods for corrosion resistance (SEE 3.4 and 5.3; 3.4 of 1995 version);
- ADD the requirements for test samples and test equipment (SEE Chapter 4);
- DELETE the inspection rules, marking, packaging, transport and storage (SEE Chapters 4 and 5 of 1995 version).

This standard was proposed by the National Automotive Standardization Technical Committee (SAC/TC 114).

The drafting organizations of this standard: China First Automobile Co., Ltd. Technology Center, Changchun Automotive Stamping Co., Ltd., China Heavy Vehicle Group Co., Ltd. Technology Development Center.

The main drafters of this standard: Lin Dahai, Xia Bolin, Liu Zhaoying, Peng Lihang, Li Guangting.

This standard replaced the standards released previously as follows:

- QC/T 200-1995;
- JB 3783.1-1984, JB 3783.2-1984.

Performance requirements and test methods of reservoir for air brake equipment of automobile and trailer

1 Scope

This standard specifies the performance requirements and test methods for of reservoir for air brake equipment of automobiles and trailers.

This standard applies to the cylindrical metal body reservoir which is used for the air brake system of the automobiles and trailers; AND the reservoirs of other materials and structures may make reference to it.

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 9286-1998 Paints and varnishes – Cross cut test for films

GB/T 10125-1997 Corrosion tests in artificial atmospheres - Salt spray test

GB/T 10587 Specifications for salt mist testing chambers

3 Performance requirements

3.1 Appearance quality

3.1.1 The appearance of the reservoir shall be smooth, AND there shall be no bump damage or protrusion.

3.1.2 The reservoir inside and outside surface coating shall meet the technical requirements of the product.

3.2 Compressive strength

3.2.1 After the test, the reservoir enclosure shall not be cracked, AND the circumferential permanent deformation shall not be greater than 1%.

5.3.1.3 After the sample is placed at room temperature for 72 h, USE a single-blade cutting tool which complies with the requirements of clause 4.1 of GB/T 9286-1998 to cut a scratch penetrating to the painting layer at the tested surface of the sample in accordance with the manual cutting method as specified in clause 7.2 of GB/T 9286-1998. The distance from the scratch to the edge of the sample shall be greater than 20 mm.

5.3.1.4 USE a soft brush to clean the sample along the scratch direction for several times, to remove all the cutting chips from the scratch.

5.3.2 Exposure test.

5.3.2.1 PLACE the test sample in the salt spray test chamber; LET the tested surface of the sample face upwards, AND the angle between the reservoir axis and the horizontal plane is $70^{\circ} \pm 5^{\circ}$.

5.3.2.2 In accordance with the salt spray test method in GB/T 10125-1997, PERFORM continuous spray test; the test duration of the reservoir external surface shall be not less than 48 h; AND the test duration of the reservoir internal surface shall be not less than 96 h.

5.3.2.3 After completion of the salt spray test, TAKE the sample out of the salt spray test chamber; within 15 min, USE the clean flowing water of not higher than 45 °C to clean the sample; then USE compressed air to blow it dry. If it cannot finish the cleaning and blowing within the specified time, it shall immerse the sample into the water the temperature of which is room temperature OR store it in a plastic bag; TAKE it out for treatment after reaching to requirements.

5.3.2.4 CHEKC the sample surface corrosion, such as blistering, rust and so on. MEASURE the corrosion spreading length at both sides of the mark.