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NATIONAL AUTOMOTIVE INDUSTRY STANDARD

OF THE PEOPLE'S REPUBLIC OF CHINA

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QC/T 764-2006

Renamed from GB 11611-89

**Motor Vehicle -Hydraulic Braking Systems – Pipes,
Tapped Holes Male Fittings and Hose End Fittings**

汽车液压制动系 金属管、内外螺纹管接头和软管端部接头

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Motor Vehicle - Hydraulic Braking Systems - Pipes, Tapped Holes Male Fittings and Hose End Fittings

1 Subject Contents and Applicable Scope

This Standard specifies the basic size, performance and material requirements for the metallic tube, female and male thread pipe fittings and hose end fittings used in the hydraulic braking system of the motor vehicles.

This Standard is applicable to the motor vehicle equipped with hydraulic braking system.

2 Normative Reference

GB 2423.17 Basic Environmental Testing Procedures for Electric and Electronic Products Test Ka: Salt Mist

3 Metallic Tube

3.1 Non-flared metallic tube

Double-layer coiled tube. The basic size, burst pressure and mass per meter shall conform to the provisions of Table 1. The metallic tube may also be coated with a plastic coating on its outer surface; but it shall meet the use requirements of female and male thread pipe fittings and hose end fittings stipulated in this Standard.

Table 1

mm

Outer diameter D_1 Without surface treatment		Wall thickness S		Outer diameter of pipe D_1 (with surface treatment) max	Burst pressure MPa min	Mass kg/m
Basic size	Limit deviation	Basic size	Limit deviation			
4.75	± 0.07	0.7	± 0.07	4.87	110	0.07
6.00				6.12	85	0.09
8.00				8.12	67.5	0.12
10.00				10.12	55	0.16

3.3 Material performance of metallic tube

It shall conform to the provisions of Table 3.

Table 3

Material 1)	Mechanical properties			
	Tensile strength 2) N / m m ²	Yield point N / m m ²	Elongation at break %	Rockwell hardness
Steel 10, 20 Y B 231	>290	> 200	>25	HR 30T <55

NOTE 1): Used for the metallic tube that has not been straightened.

2): Flat furnace steel or top-blown oxygen converter steel.

3.4 Technical requirements

The inner and outer surfaces of the metallic tube shall be free of the scale; the outer surface shall be corrosion resistant and can be resistant to the salt spray test for a duration of no less than 96h. The test method shall conform to the provisions of GB 2423.17.

4 Taper Sealed Pipe Threaded Hole

The type and size of the taper sealed pipe threaded hole shall conform to the provisions of Figure 3 and Table 4.

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