

(c) Hold the brake hose in a straight position and vertical orientation.

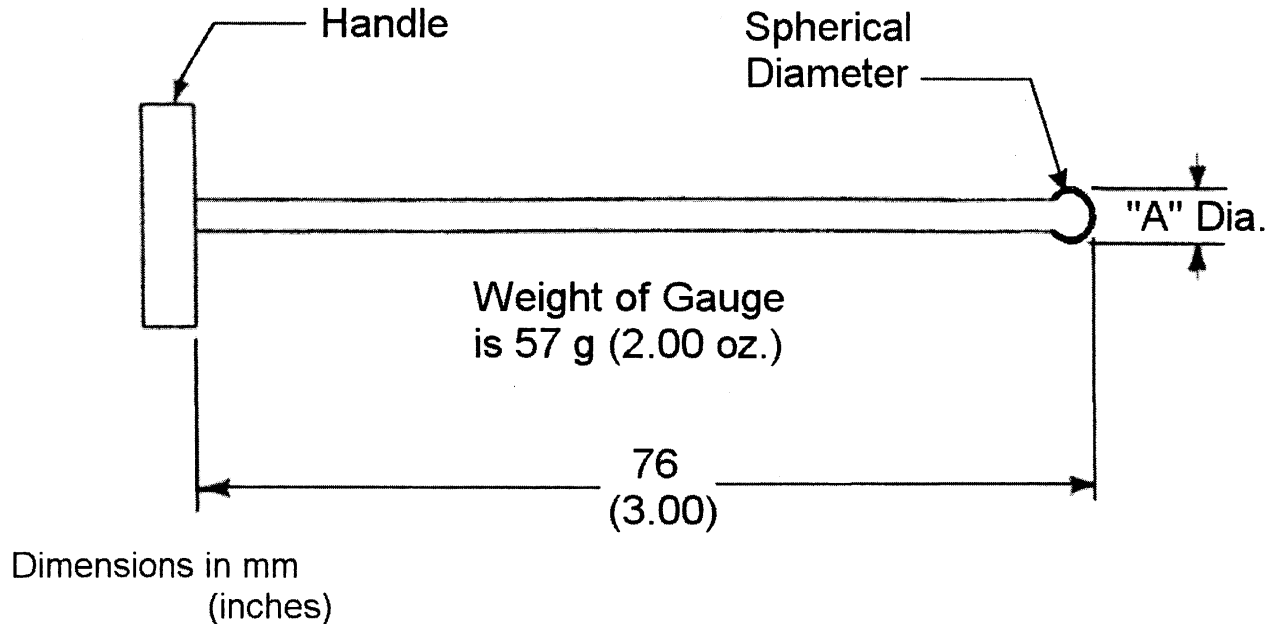
(d) Place the spherical end of the plug gauge just inside the hose or end fitting. If the spherical end will not enter the hose or end fitting using no more force

than gravity acting on the plug gauge, this constitutes failure of the constriction test.

(e) Release the plug gauge. Within three seconds, the plug gauge shall fall under the force of gravity alone up to

the handle of the gauge. If the plug gauge does not fully enter the hose up to the handle of the gauge within three seconds, this constitutes failure of the constriction test.

Figure 4. Constriction Test Plug Gauge



S7. Requirements—Air brake hose, brake hose assemblies, and brake hose end fittings.

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S7.2.1 Hose. * * *

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(b) A designation that identifies the manufacturer of the hose, which shall be filed in writing with: Office of Vehicle Safety Compliance, Equipment Division NVS-222, National Highway Traffic Safety Administration, 400

Seventh St. SW., Washington, DC 20590. The designation may consist of block capital letters, numerals, or a symbol.

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(d) The nominal inside diameter of the hose expressed in inches or fractions of inches or in millimeters. The abbreviation “mm” shall follow hose sizes that are expressed in millimeters. (Examples: $\frac{3}{8}$, $\frac{1}{2}$ ($\frac{1}{2}$ SP in the case of $\frac{1}{2}$ inch special air brake hose), 4mm, 6mm.)

(e) The letter “A” shall indicate intended use in air brake systems. In the case of a hose intended for use in a reusable assembly, “AI” or “AII” shall indicate Type I or Type II dimensional characteristics of the hose as described in Table III. A hose that is intended to be used with more than one type of end fitting may be labeled with multiple designations. (Examples: AI-AII, AI & AII.)

TABLE III.—AIR BRAKE HOSE DIMENSIONS FOR REUSABLE ASSEMBLIES

Size, inches	Inside diameter tolerance, inches	Type I outside diameter, inches		Type II outside diameter, inches	
		Minimum	Maximum	Minimum	Maximum
$\frac{3}{16}$	+0.026 −0.000	0.472	0.510	0.500	0.539
$\frac{1}{4}$	+0.031 −0.000	0.535	0.573	0.562	0.602
$\frac{5}{16}$	+0.031 −0.000	0.598	0.636	0.656	0.695
$\frac{3}{8}$	±0.023	0.719	0.781	0.719	0.781
$\frac{7}{16}$	±0.031	0.781	0.843	0.781	0.843
$\frac{13}{32}$	+0.031 −0.000	0.714	0.760	0.742	0.789
$\frac{1}{2}$	+0.039 −0.000	0.808	0.854	0.898	0.945
$\frac{5}{8}$	+0.042 −0.000	0.933	0.979	1.054	1.101
$\frac{1}{2}$ special	±0.031	0.844	0.906	0.844	0.906