

STANDARD

SAE J829c

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Fuel Tank Filler Cap and Cap Retainer—SAE J829c

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FUEL TANK FILLER CAP AND CAP RETAINER—SAE J829c

SAE Standard

Report of Fuel Filler Cap Committee approved June 1962 and last revised June 1977.

1. Purpose—The purpose of this Standard is to provide dimensions for vented, nonvented, and pressure-vacuum fuel tank filler caps and cap retainers. Use of these dimensions will preclude the use of a vented or nonvented cap with a pressure-vacuum cap retainer. In addition, these dimensions insure that if use of a pressure-vacuum cap is attempted with a vented cap retainer,

it will not seal. They will, however, allow the use of a pressure-vacuum cap on a nonvented cap retainer.

2. Scope—This standard was developed primarily for passenger car and truck applications for the sizes indicated, but it may be used in marine, industrial, and similar applications.

TABLE 1—CAP AND RETAINER DIMENSIONS

Nominal Filler Pipe Size (at Fuel Inlet)		A		B		C		D		E		F	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
Nonvented													
1.75 ^a	44.5 ^a	1.21–1.23	30.7–31.2	1.46–1.49	37.1–37.8	0.47–0.51	11.9–13.0	0.28–0.31	7.1–7.9	0.36–0.38	9.1–9.7	0.01–0.03	0.3–0.8
2.00	50.8	1.37–1.40	34.8–35.6	1.64–1.69	41.7–42.9	0.47–0.51	11.9–13.0	0.30–0.33	7.6–8.4	0.39–0.41	9.9–10.4	0.01–0.03	0.3–0.8
2.25	57.2	1.52–1.55	38.6–39.4	1.90–1.96	48.3–49.8	0.47–0.51	11.9–13.0	0.34–0.37	8.6–9.4	0.45–0.48	11.4–12.2	0.01–0.03	0.3–0.8
Vented													
1.75 ^a	44.5 ^a	1.21–1.23	30.7–31.2	1.46–1.49	37.1–37.8	0.26–0.30	6.6– 7.6	0.13–0.16	3.3–4.1	0.20–0.22	5.1– 5.6	0.01–0.03	0.3–0.8
2.00	50.8	1.37–1.40	34.8–35.6	1.64–1.69	41.7–42.9	0.26–0.30	6.6– 7.6	0.11–0.14	2.8–3.6	0.20–0.22	5.1– 5.6	0.01–0.03	0.3–0.8
2.25	57.2	1.52–1.55	38.6–39.4	1.90–1.96	48.3–49.8	0.26–0.30	6.6– 7.6	0.09–0.12	2.3–3.0	0.20–0.22	5.1– 5.6	0.01–0.03	0.3–0.8
Pressure Vacuum													
2.00	50.8	1.37–1.40	34.8–35.6	1.64–1.69	41.7–42.9	0.26–0.30	6.6– 7.6	0.30–0.33	7.6–8.4	0.39–0.41	9.9–10.4	0.01–0.03	0.3–0.8
2.25	57.2	1.52–1.55	38.6–39.4	1.90–1.96	48.3–49.8	0.26–0.30	6.6– 7.6	0.34–0.37	8.6–9.4	0.45–0.48	11.4–12.2	0.01–0.03	0.3–0.8

Nominal Filler Pipe Size (at Fuel Inlet)		G		H, Min		J		K		L		Deg X ±4
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
Nonvented												
1.75 ^a	44.5 ^a	0.48–0.51	12.2–13.0	0.12	3.0	1.40–1.43	35.6–36.3	1.17–1.19	29.7–30.2	0.36–0.40	9.1–10.2	130
2.00	50.8	0.54–0.57	13.7–14.5	0.12	3.0	1.57–1.63	39.9–41.4	1.33–1.36	33.8–34.5	0.36–0.40	9.1–10.2	140
2.25	57.2	0.60–0.63	15.2–16.0	0.12	3.0	1.80–1.86	45.7–47.2	1.48–1.51	37.6–38.4	0.36–0.40	9.1–10.2	140
Vented												
1.75 ^a	44.5 ^a	0.30–0.33	7.6– 8.4	0.12	3.0	1.40–1.43	35.6–36.3	1.17–1.19	29.7–30.2	0.21–0.24	5.3– 6.1	130
2.00	50.8	0.30–0.33	7.6– 8.4	0.12	3.0	1.57–1.63	39.9–41.4	1.33–1.36	33.8–34.5	0.21–0.24	5.3– 6.1	140
2.25	57.2	0.30–0.33	7.6– 8.4	0.12	3.0	1.80–1.86	45.7–47.2	1.48–1.51	37.6–38.4	0.21–0.24	5.3– 6.1	140
Pressure-Vacuum												
2.00	50.8	0.54–0.57	13.7–14.5	0.12	3.0	1.57–1.63	39.9–41.4	1.33–1.36	33.8–34.5	0.21–0.24	5.3– 6.1	140
2.25	57.2	0.60–0.63	15.2–16.0	0.12	3.0	1.80–1.86	45.7–47.2	1.48–1.51	37.6–38.4	0.21–0.24	5.3– 6.1	140

^aThe 1.75 in (44.5 mm) filler pipe inlet size is not recommended for passenger cars and trucks. Application refers to SAE J1140, Filler Pipe and Openings of Motor Vehicle Fuel Tanks.

FIG. 1—CAP

