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Passenger cars — Engine cooling systems — Dimensions of pressure caps and their ramp seats on filler necks

Voitures particulières — Systèmes de refroidissement des moteurs — Caractéristiques dimensionnelles des soupapes de surpression/dépression et de leurs embases à rampes sur tubulures de remplissage

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Reference number
ISO 9817:1991(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 9817 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Sub-Committee SC 24, *Interchangeability of components of passenger cars*.

ISO 9817 forms one of a series, consisting of the following International Standards:

ISO 9133:1988, *Passenger cars — Engine cooling systems — Threaded pressure caps and their seats on filler necks.*

ISO 9817:1991, *Passenger cars — Engine cooling systems — Dimensions of pressure caps and their ramp seats on filler necks.*

ISO 9818:1991, *Passenger cars — Engine cooling systems — Test methods and marking of pressure caps.*

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Passenger cars — Engine cooling systems — Dimensions of pressure caps and their ramp seats on filler necks

1 Scope

This International Standard specifies the dimensions of seats with clamping ramps and of pressure caps for use on filler necks of engine cooling systems of passenger cars.

2 Dimensions

NOTE 1 The shapes of seats and pressure caps shown in figures 1 and 2 are for guidance only.

2.1 Seat with clamping ramps

The seat with clamping ramps shall be in accordance with the dimensions shown in figure 1 and given in table 1.

2.2 Pressure cap

The pressure cap shall be in accordance with the dimensions shown in figure 2 and given in table 2.

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Dimensions in millimetres

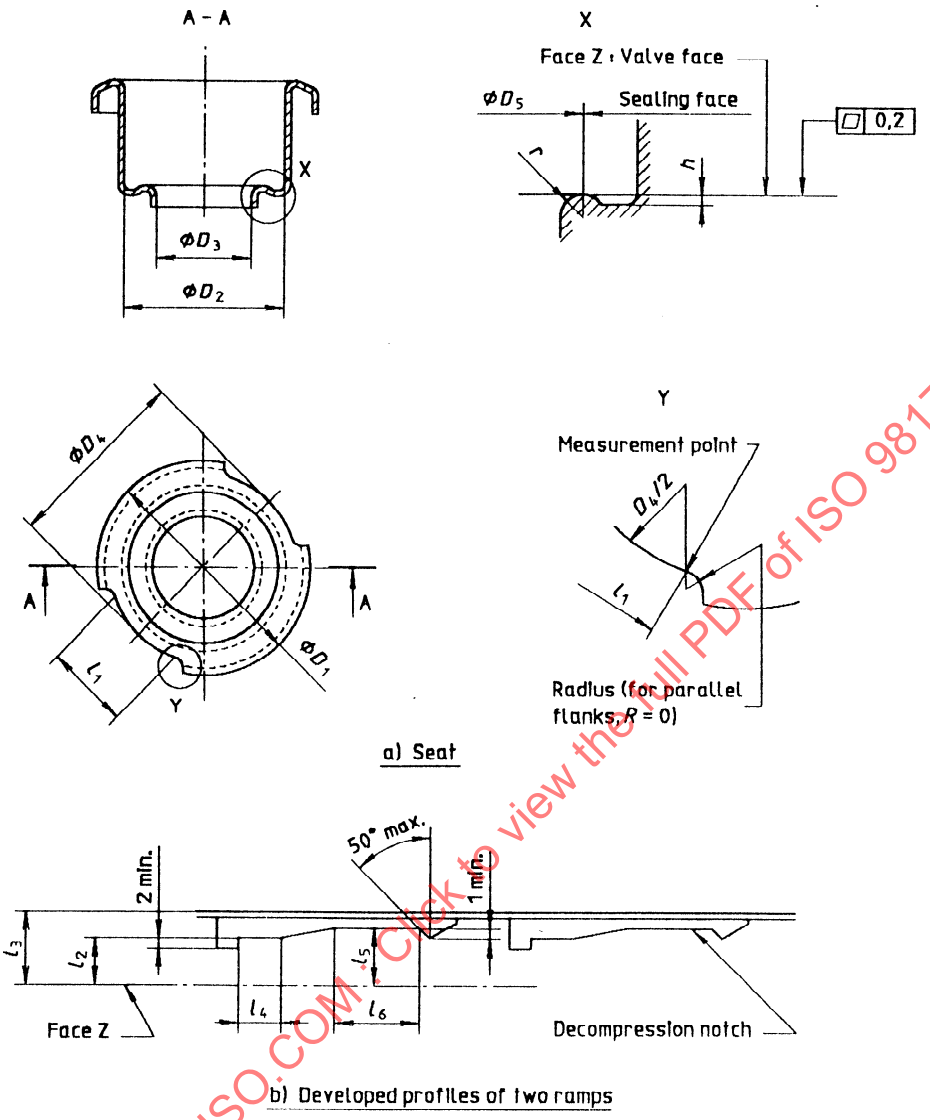

Figure 1 — Seat with clamping ramps

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Table 1 — Dimensions

Dimensions in millimetres

D_1 ± 0,5	D_2	D_3 [1] min.	D_4 max.	D_5 max.	h [1] min.	l_1	l_2 ± 0,3	l_3 ± 0,3	l_4 min.	l_5 [1] min.	l_6 [1] min.	r [1]
43 56,5	31,4 ± 0,3 41,5 ± 0,5	19,4 27,3	39 49,5	24 32	0,3 0,3	12 23	10,6 13,9	15,8 19,5	11,5 13	12,2 16	11,5 23	1,5 to 2 1,5 to 2

1) Recommended values.

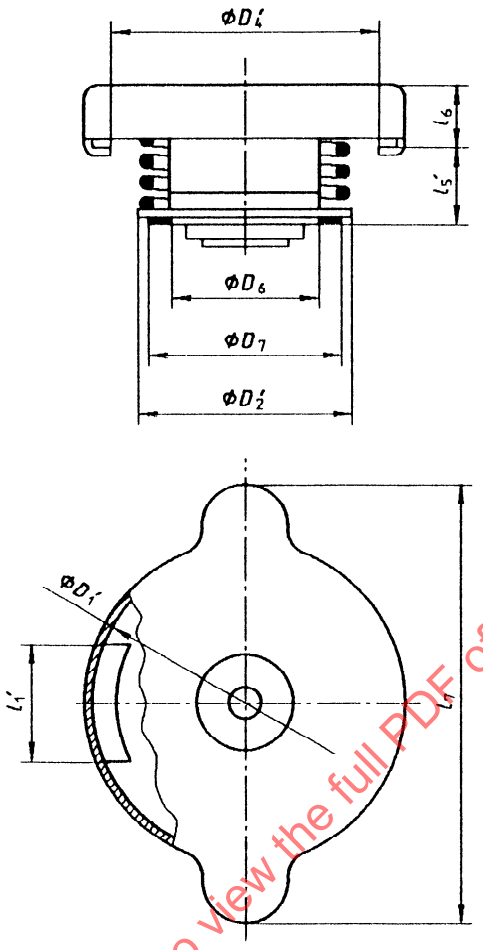

Figure 2 — Pressure cap

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Table 2 — Dimensions

Dimensions in millimetres

D'_1 ± 0,5	D'_2 max.	D'_4 min.	D_6 [1), 2)] max.	D_7 [1), 2)] min.	l'_1 max.	l'_5 [1), 3)] max.	l_6 [4)] max.	l_7 [4)] max.
44	29	39,1	19,4	28	11,5	12,1	10	68
58	39	49,5	27,5	36	22	15,8	10	82

1) Recommended values.

NOTE — The letters marked with a prime (′) correspond to the same letters on the seat.

2) Dimensions of the usable part of the gasket.

3) This dimension shall be measured without play. In case of the pressure cap having a concave surface, the dimension shall be measured at the position corresponding to the filler neck dimension D_5.

4) For caps in which this part is made of metal.

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