International Standard ISO 7299

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Road vehicles — End-mounting flanges for fuel injection pumps

Véhicules routiers — Brides de montage pour pompes d'injection

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Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

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Road vehicles — End-mounting flanges for fuel injection pumps

1 Scope and field of application

This International Standard specifies dimensional requirements for :

a) three types of end-mounting flange for rotary and distributor fuel injection pumps,

b) five types of end-mounting flange for in-line fuel injection pumps,

for use in diesel (compression ignition) engines.

2 Reference

ISO 6519, *Tapers for shaft ends and hubs for fuel injection pumps.*

3 Dimensions and tolerances

3.1 General

Engine manufacturers are encouraged to use the tolerance H8 for the female register diameter.

If functionally necessary, the tolerance g8 of the pump spigot diameter (ϕA in the figures) may be replaced by f7, and the tolerance H8 of the female register diameter may be replaced by H7, by mutual agreement between supplier and user.

NOTE In the case of in-line fuel injection pumps, the flange configuration can optionally be rotated relative to the pump housing.

3.2 Rotary and distributor fuel injection pumps

3.2.1 Type 1 flange

See figure 1 and table 1.

3.2.2 Type 2 flange

See figure 2 and table 2.

3.2.3 Type 3 flange

See figure 3 and table 3.

3.3 In-line fuel injection pumps

3.3.1 Type 4 flange

See figure 4 and table 4.

3.3.2 Type 5 flange

See figure 5 and table 5.

3.3.3 Type 6 flange

See figure 6 and table 6.

3.3.4 Type 7 flange

See figure 7 and table 7.

3.3.5 Type 8 flange

See figure 8 and table 8.

Dimensions in millimetres

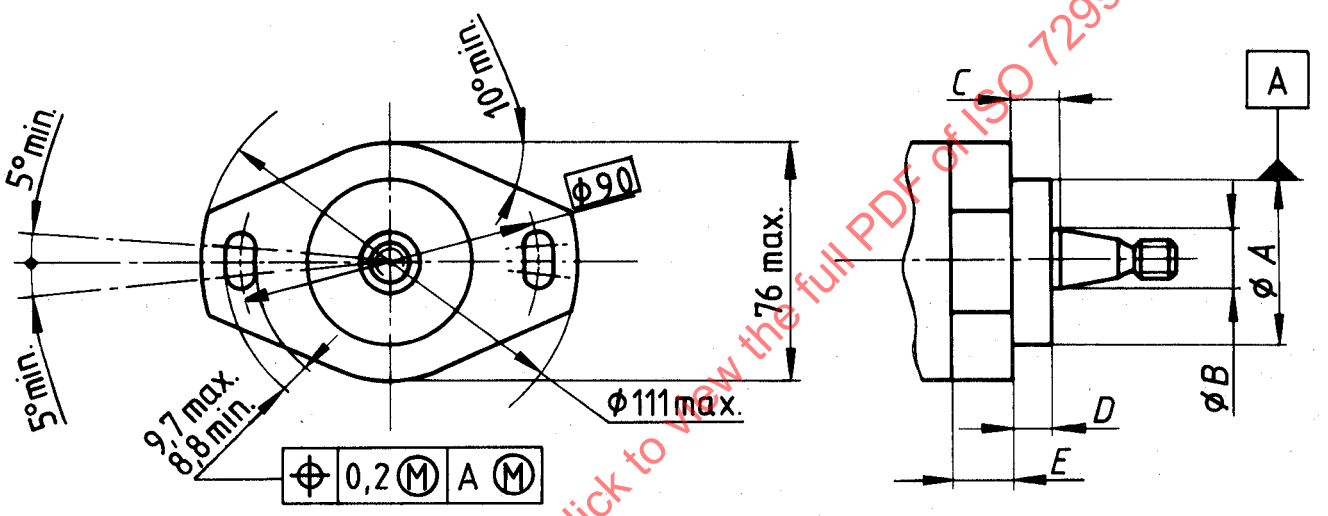

Figure 1 — Rotary and distributor fuel injection pumps — Type 1 end-mounting flange

Table 1

Dimensions in millimetres

A g8	*B* [1] nominal	*C* ± 0,5	*D* max.	*E*
50 or 68	17 or 20	12,5	11	13 to 16
		26	24,5	

1) See ISO 6519.

Dimensions in millimetres

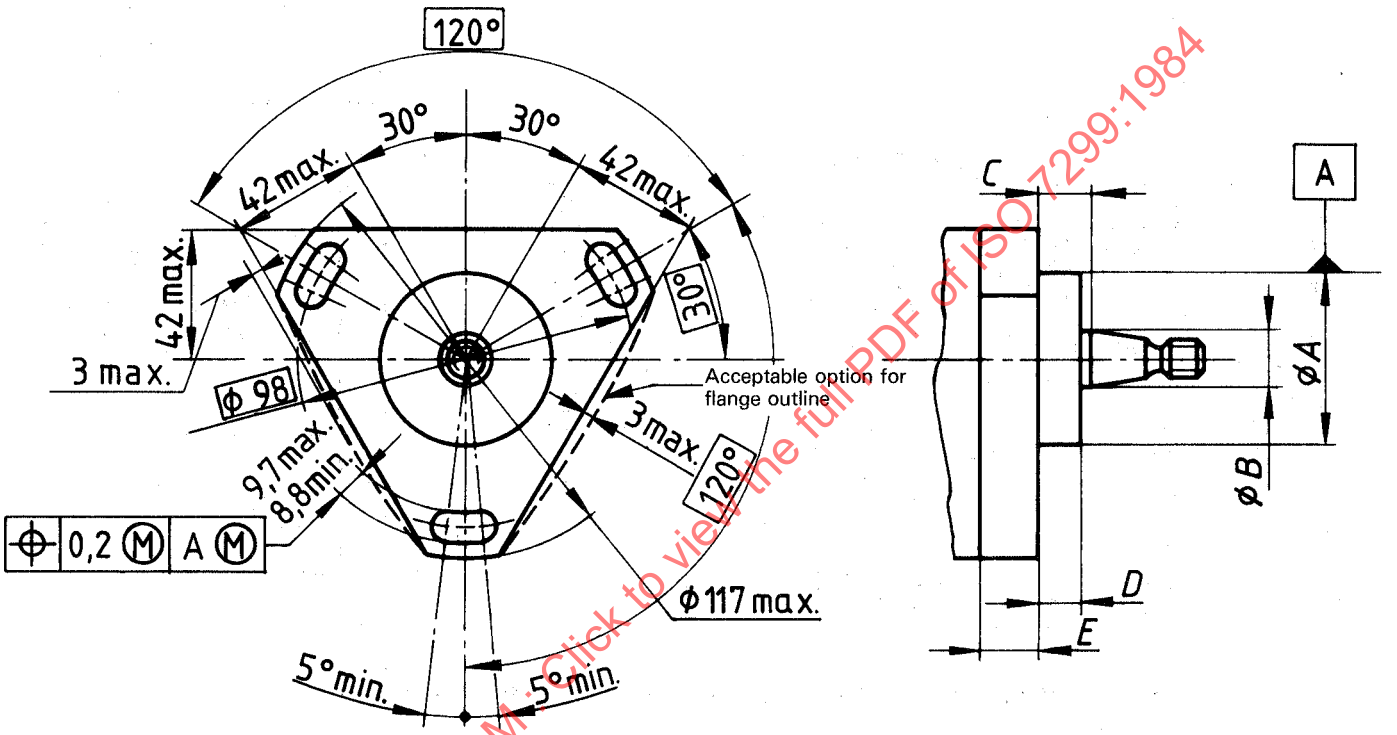

Figure 2 — Rotary and distributor fuel injection pumps — Type 2 end-mounting flange

Table 2

Dimensions in millimetres

A g8	*B* [1] nominal	*C* ± 0,5	*D* max.	*E*
50 or 68	17 or 20	12,5	11	13 to 16
		17,4	16	
		26	24,5	

1) See ISO 6519.

Dimensions in millimetres

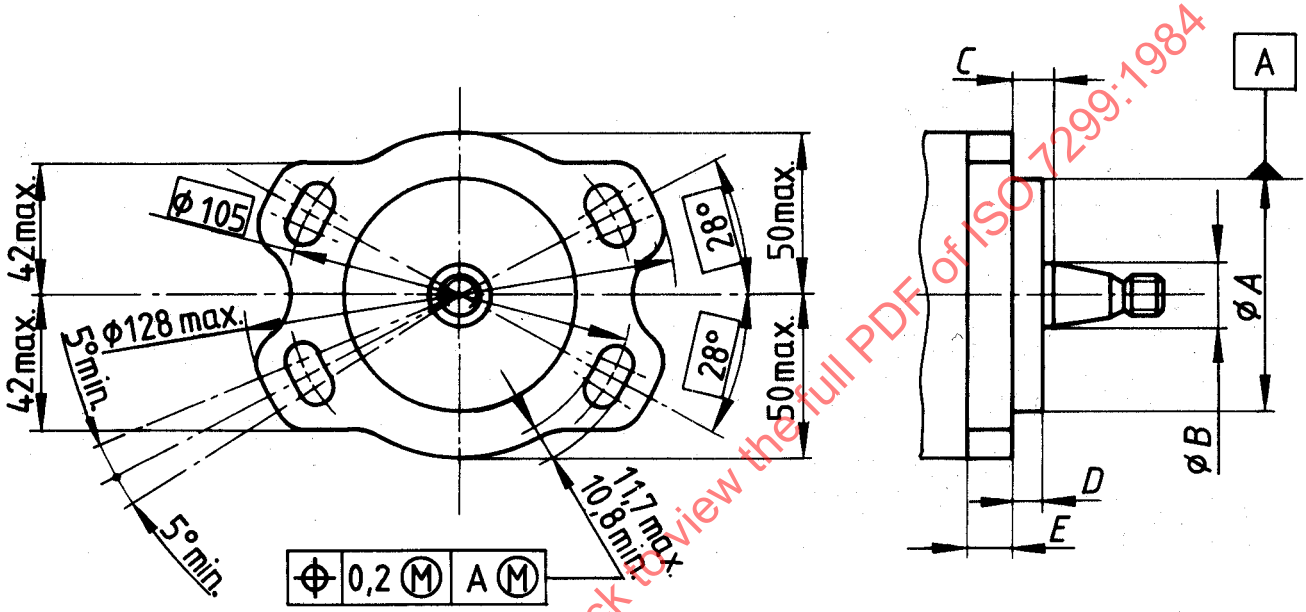

Figure 3 — Rotary and distributor fuel injection pumps — Type 3 end-mounting flange

Table 3

Dimensions in millimetres

A g8	*B*[1] nominal	*C* ± 0,5	*D* max.	*E*
50 or 68	17 or 20	9,5[2]	8,2[2]	13 to 16
		12,5	11	
		17,4	16	
		26	24,5	

1) See ISO 6519.

2) Non-preferred value; only for interchangeability with certain types of in-line pumps.

Dimensions in millimetres

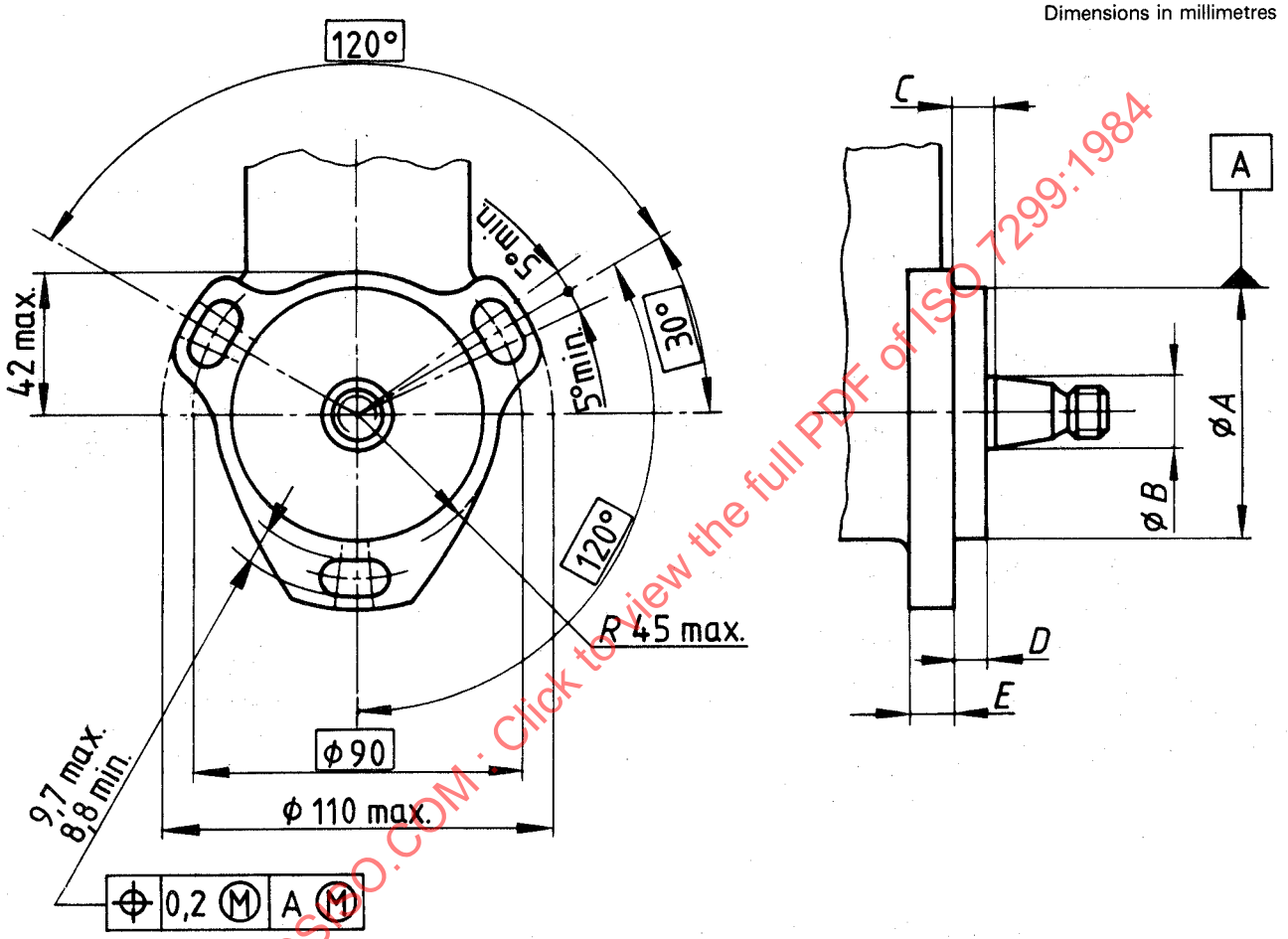

Figure 4 — In-line fuel injection pumps — Type 4 end-mounting flange

Table 4

Dimensions in millimetres

A g8	*B*[1] nominal	*C* ± 0,5	*D* max.	*E*
68	17	9,5	8	10 to 16

1) See ISO 6519.

Dimensions in millimetres

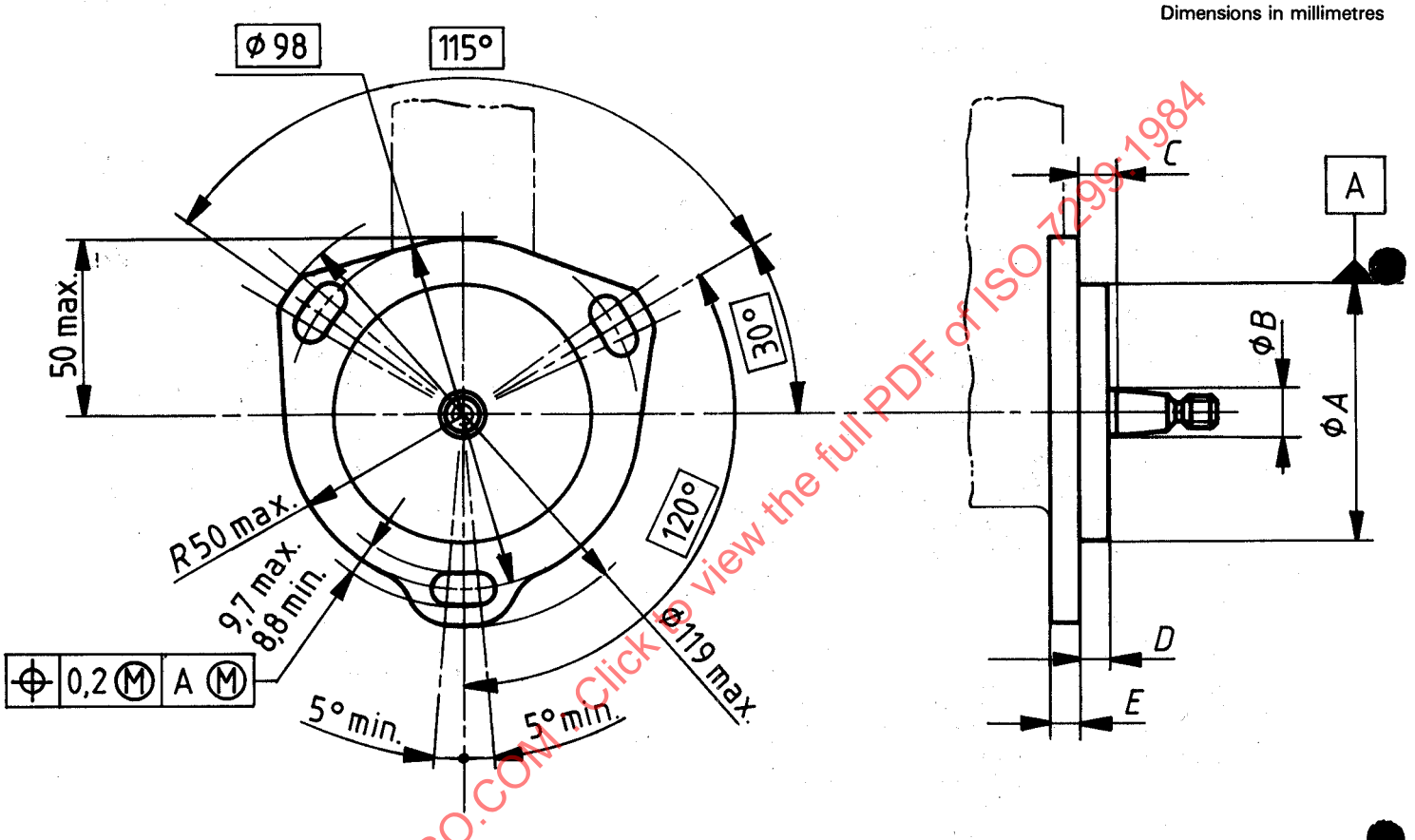

Figure 5 — In-line fuel injection pumps — Type 5 end-mounting flange

Table 5

Dimensions in millimetres

A g8	*B* [1] nominal	*C* ± 0,5	*D* max.	*E*
74 or 76	17	9,5	8	8 to 10

1) See ISO 6519.

NOTE — Suitable also for distributor fuel injection pumps.

Dimensions in millimetres

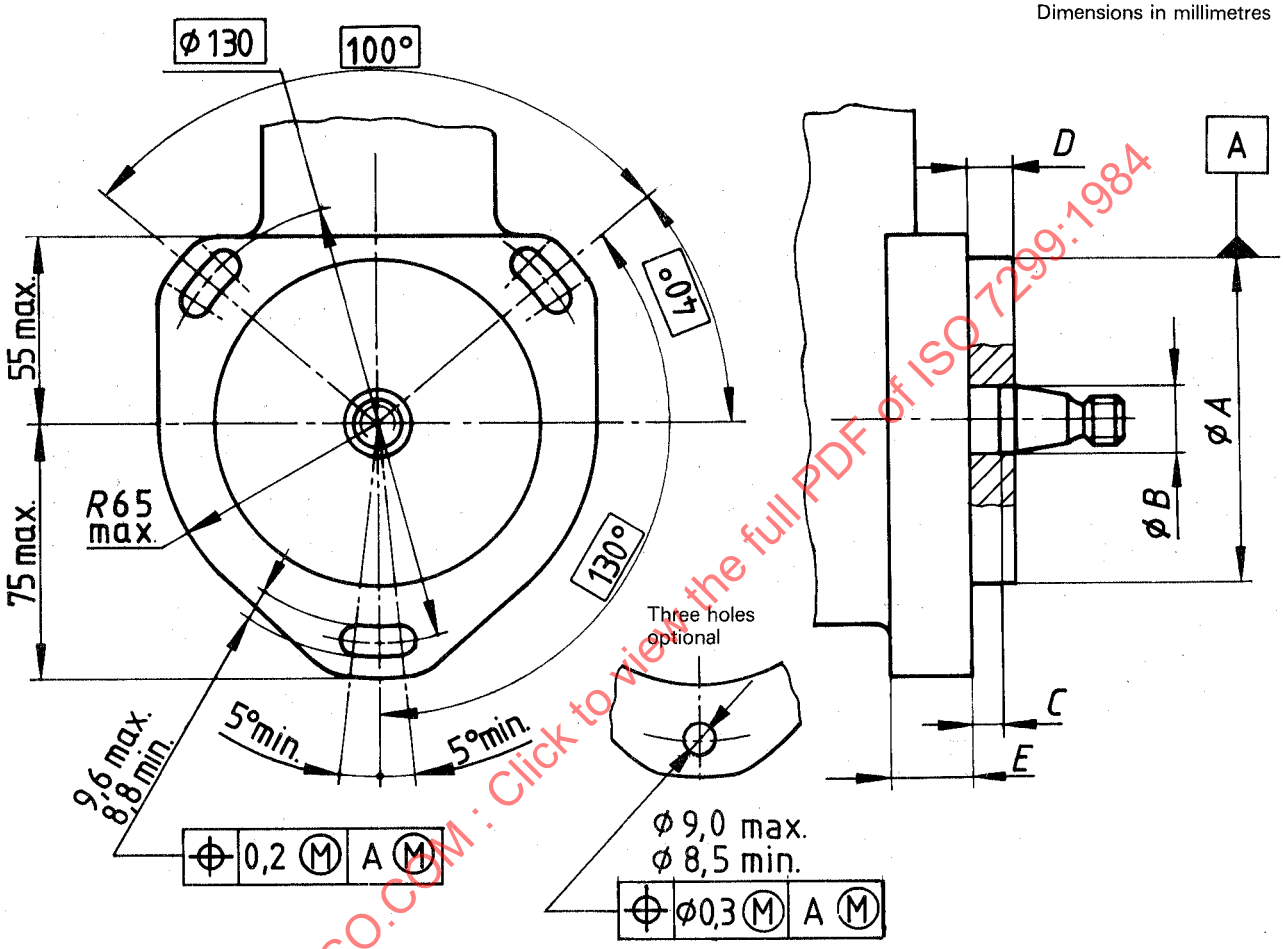

Figure 6 — In-line fuel injection pumps — Type 6 end-mounting flange

Table 6

Dimensions in millimetres

A g8	*B* [1] nominal	*C* ± 1	*D* max.	*E*
68 or 97 or 112	20 or 22	4,5	7,5	17 to 18 or 24 to 26

1) See ISO 6519.