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Cooperative Engineering Program

**SAE J626 JUN88**

**Diesel Fuel Injection  
— End Mounting  
Flanges for Fuel  
Injection Pumps**

**SAE Standard  
Revised June 1988**

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Ø DIESEL FUEL INJECTION - END MOUNTING FLANGES  
FOR FUEL INJECTION PUMPS

1. SCOPE AND FIELD OF APPLICATION:

This SAE Standard specifies dimensional requirements for eight types of end-mounting flange for fuel injection pumps for use in diesel (compression ignition) engines.

2. REFERENCE:

SAE J1419 Tapers for shaft ends and hubs for fuel injection pumps.  
(Ref. ISO 6519.)

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 ( $\varnothing A$  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.

3.2 Fuel Injection Pumps:

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3.2.1 Type 1 Flange: See Fig. 1 and Table 1:

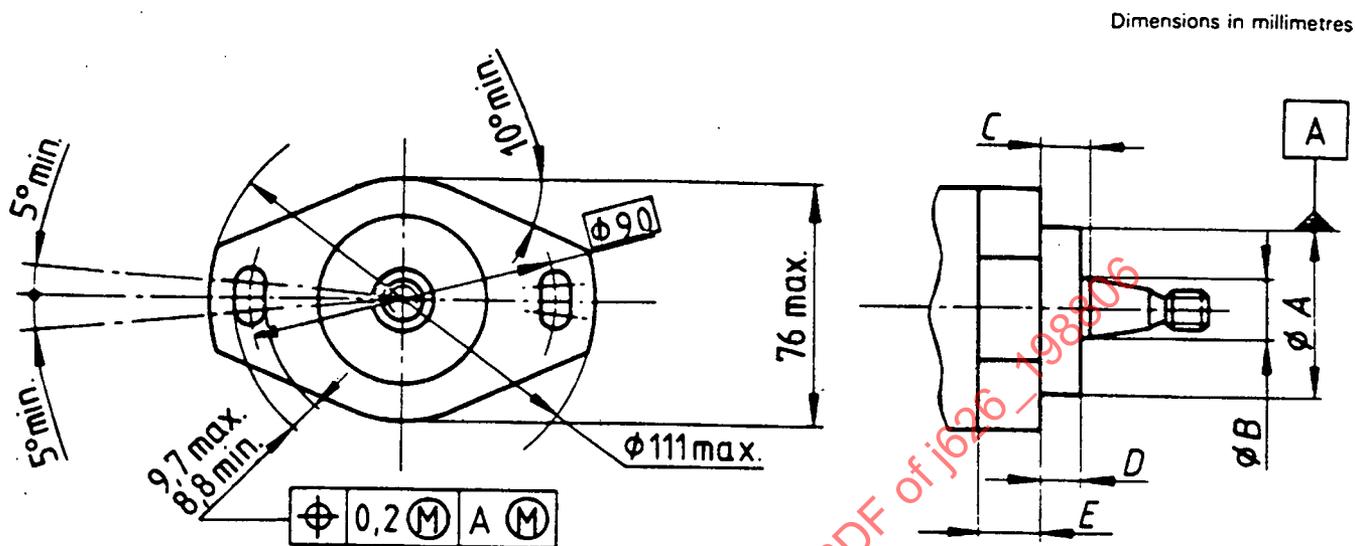


FIGURE 1 - Fuel Injection Pumps - Type 1 End-Mounting Flange

TABLE 1

Dimensions in millimetres

A g8	B <sup>1)</sup> nominal	C ± 0.5	D max.	E
50 or 68	17 or 20	12.5	11	13 to 16
		26	24.5	

<sup>1)</sup> See SAE J1419

3.2.2 Type 2 Flange: See Fig. 2 and Table 2:

Dimensions in millimetres

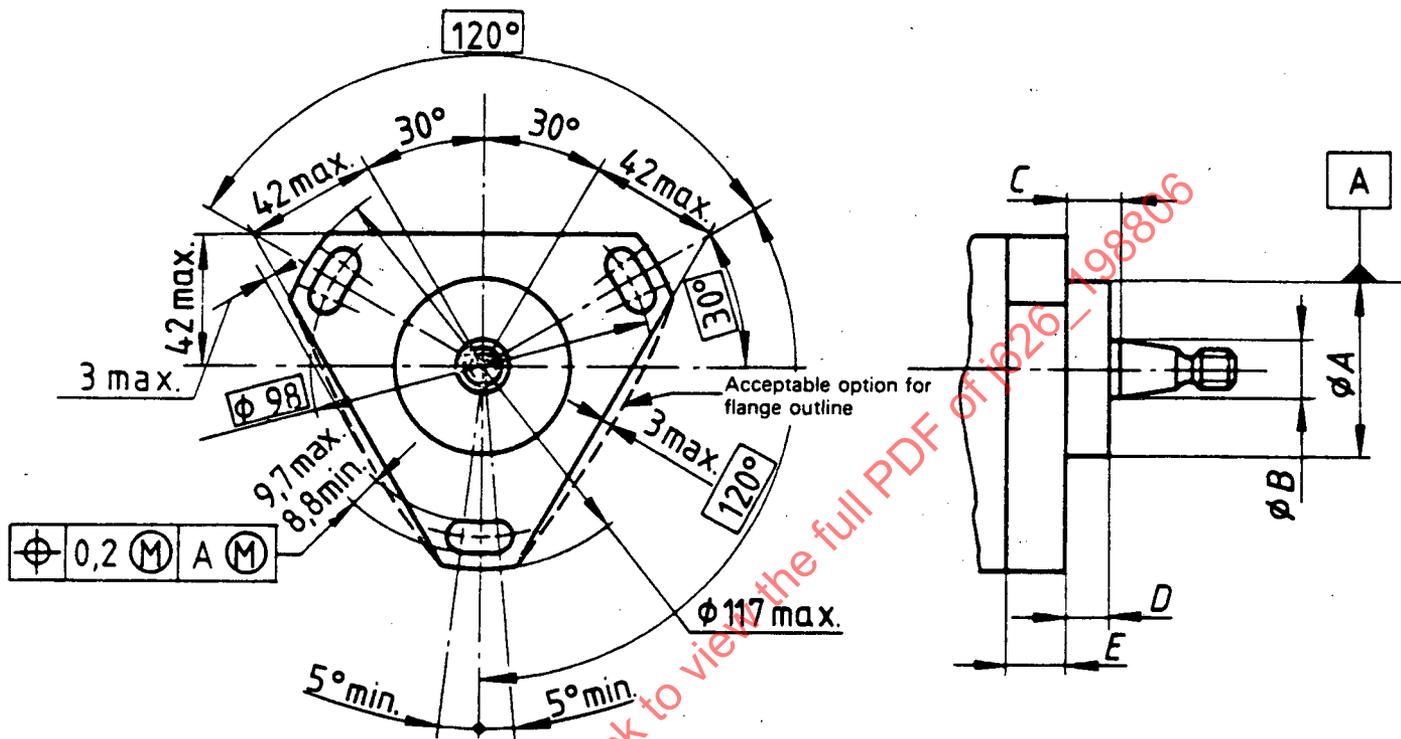


FIGURE 2 - Fuel Injection Pumps - Type 2 End-Mounting Flange

TABLE 2

Dimensions in millimetres

A g8	B <sup>1)</sup> 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	

<sup>1)</sup>See SAE J1419

3.2.3 Type 3 Flange: See Fig. 3 and Table 3:

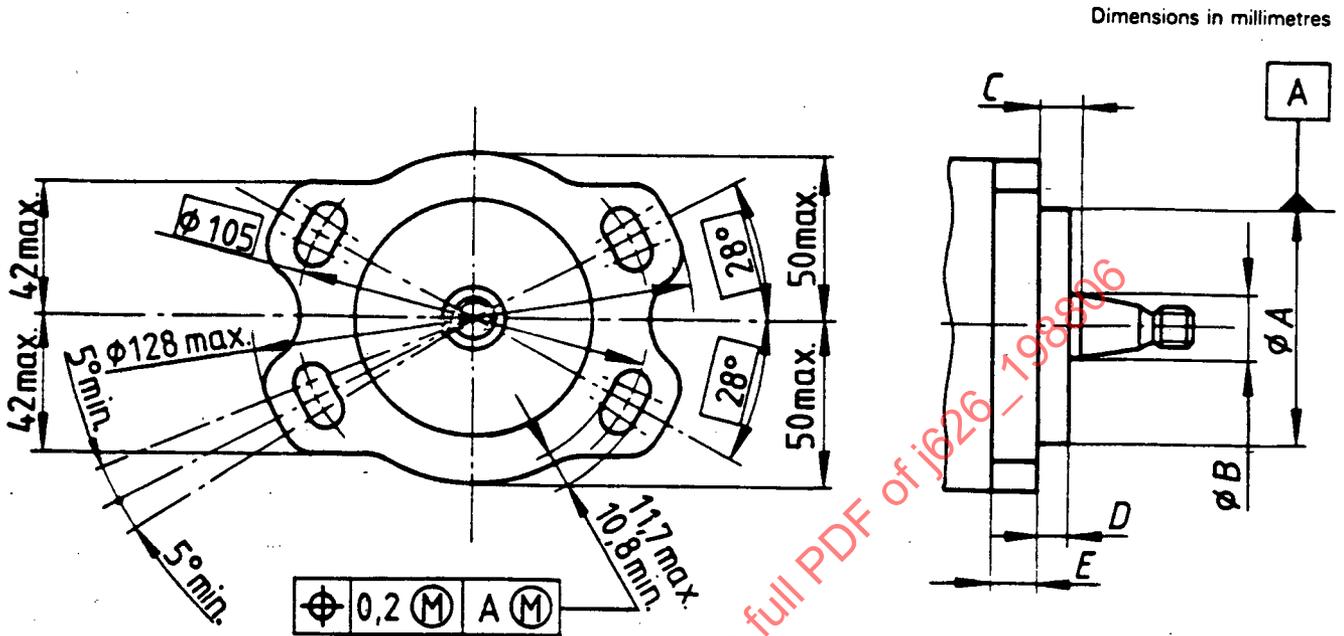


FIGURE 3 - Fuel Injection Pumps - Type 3 End-Mounting Flange

TABLE 3

Dimensions in millimetres

A g8	B <sup>1)</sup> nominal	C ± 0.5	D max.	E
50 or 68	17 or 20	9.5	8.2	13 to 16
		12.5	11	
		17.4	16	
		26	24.5	

<sup>1)</sup>See SAE J1419

3.2.4 Type 4 Flange: See Fig. 4 and Table 4:

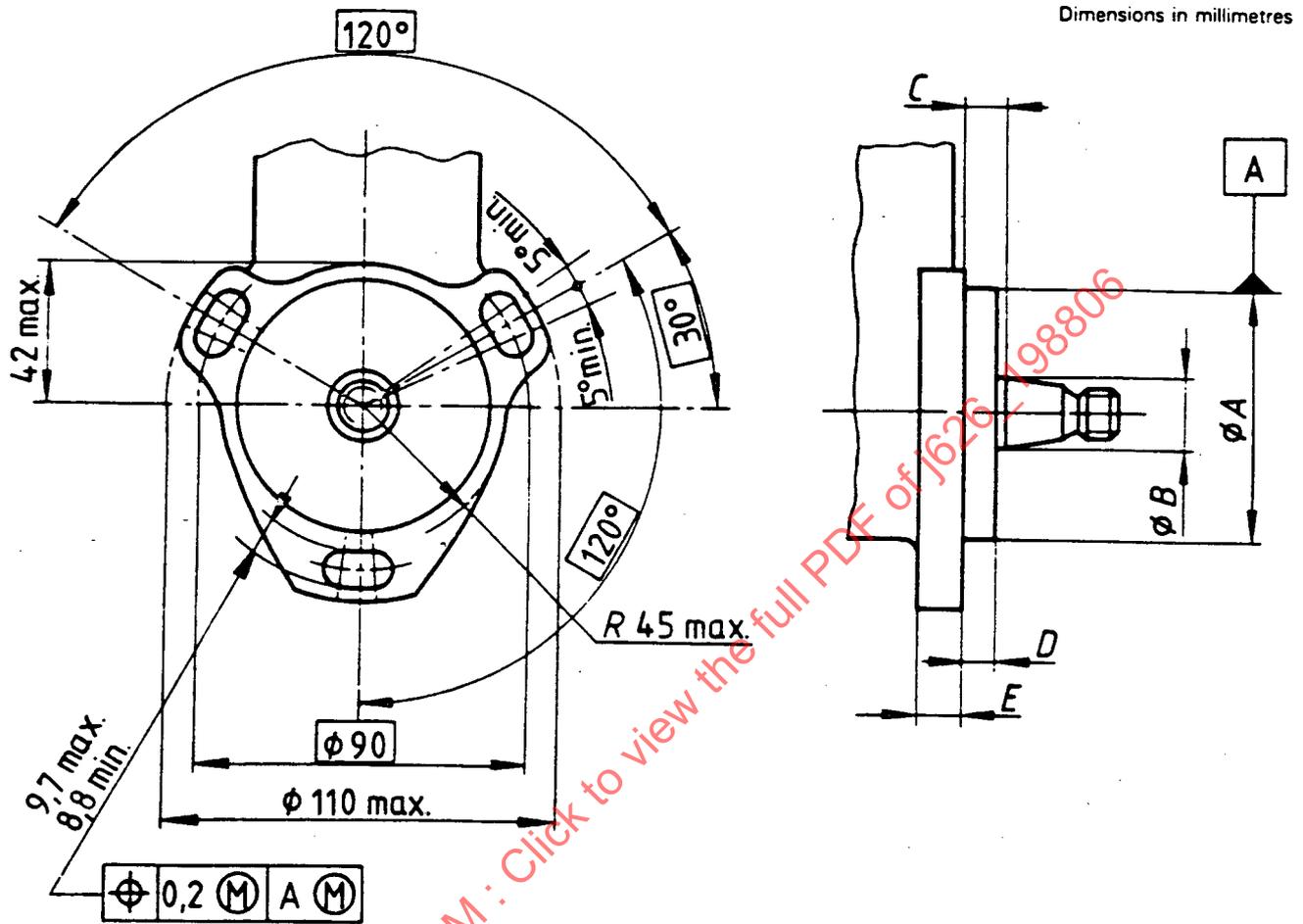


FIGURE 4 - Fuel Injection Pumps - Type 4 End-Mounting Flange

TABLE 4

Dimensions in millimetres

A g8	B <sup>1)</sup> nominal	C ± 0.5	D max.	E
68	17	9.5	8	10 to 16

<sup>1)</sup>See SAE J1419

3.2.5 Type 5 Flange: See Fig. 5 and Table 5:

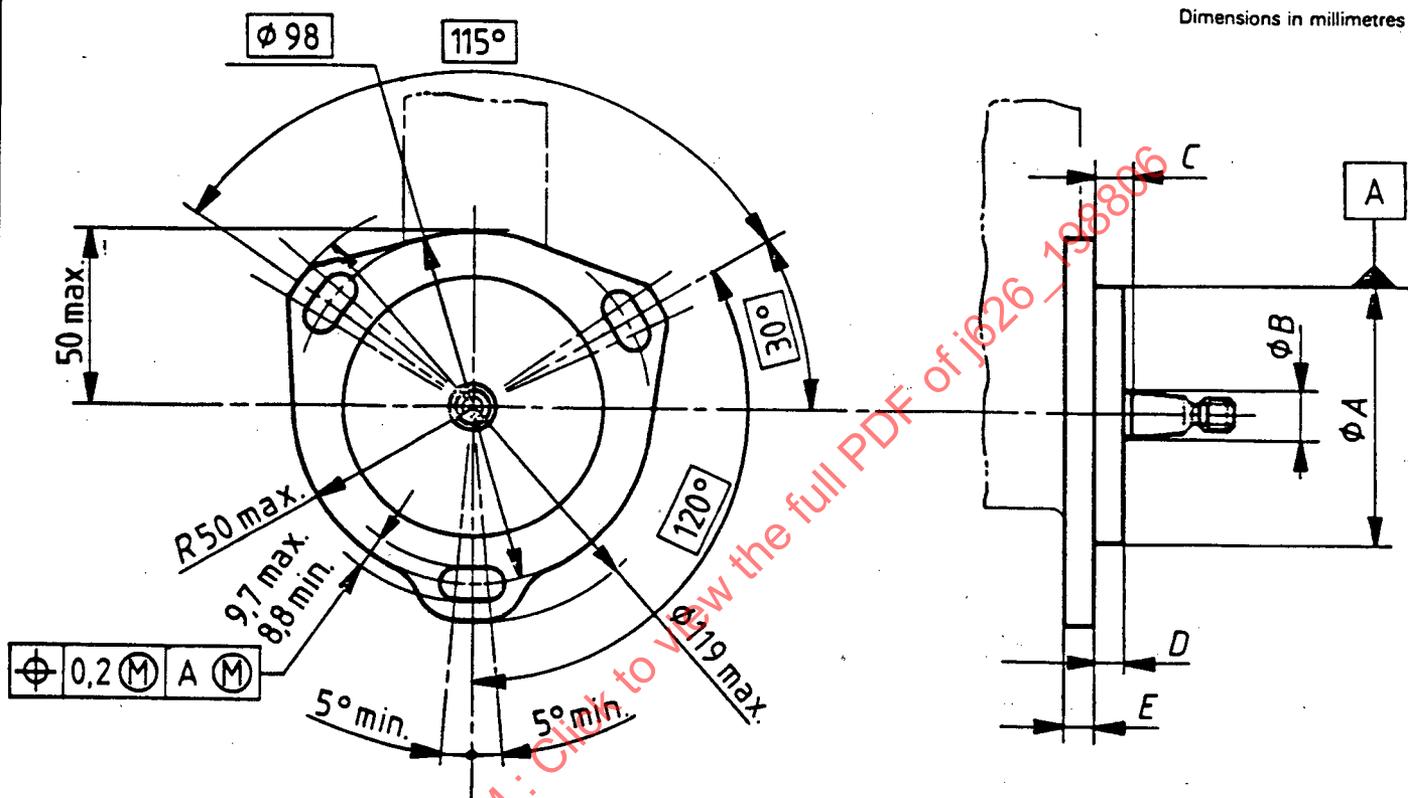


FIGURE 5 - Fuel Injection Pumps - Type 5 End-Mounting Flange

TABLE 5

Dimensions in millimetres

A	B <sup>1)</sup>	C	D	E
g8	nominal	± 0.5	max.	
74 or 76	17	9.5	8	8 to 10

<sup>1)</sup>See SAE J1419

3.2.6 Type 6 Flange: See Fig. 6 and Table 6:

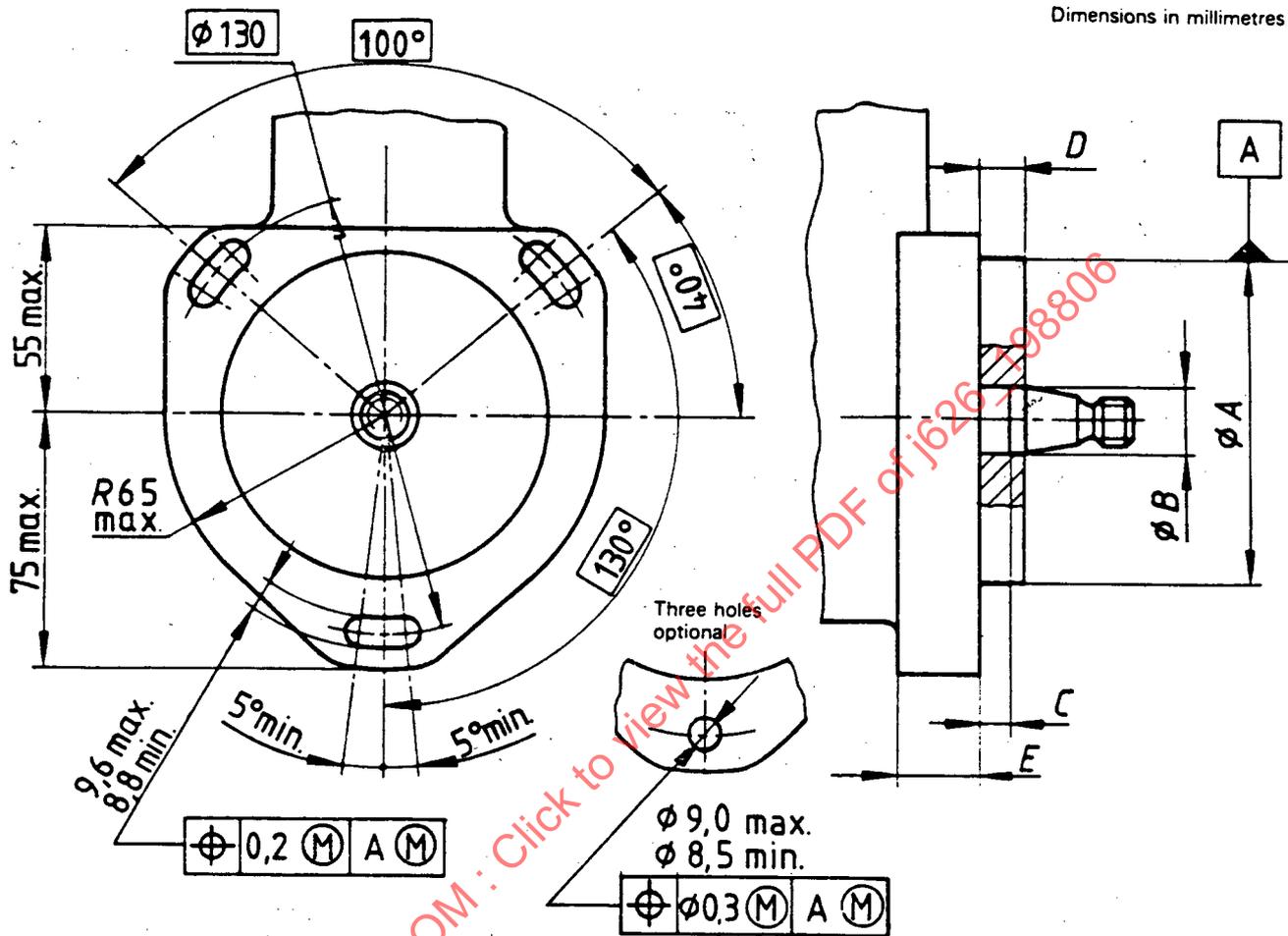


FIGURE 6 - Fuel Injection Pumps - Type 6 End-Mounting Flange

TABLE 6

Dimensions in millimetres

A g8	B <sup>1)</sup> nominal	C $\pm 1$	D max.	E
68 or 97 or 112	20 or 22	4.5	7.5	17 to 18 or 24 to 26

<sup>1)</sup>See SAE J1419

3.2.7 Type 7 Flange: See Fig. 7 and Table 7:

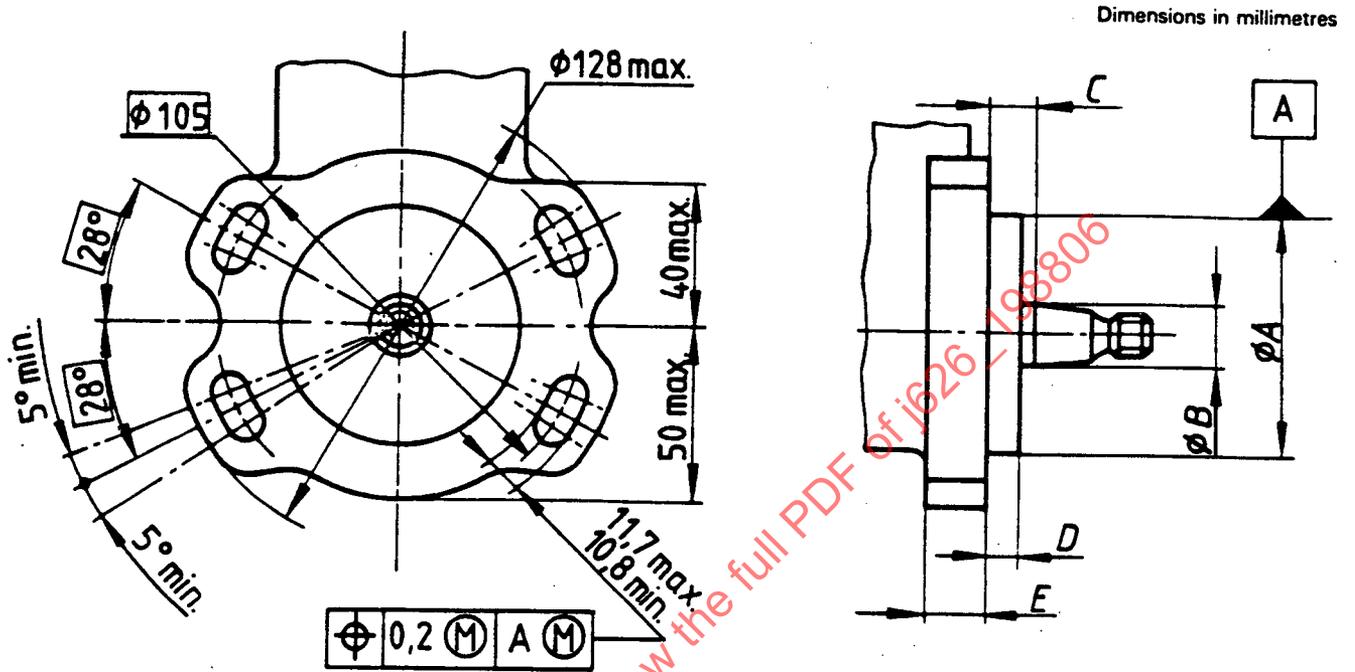


FIGURE 7 - Fuel Injection Pumps - Type 7 End-Mounting Flange

TABLE 7

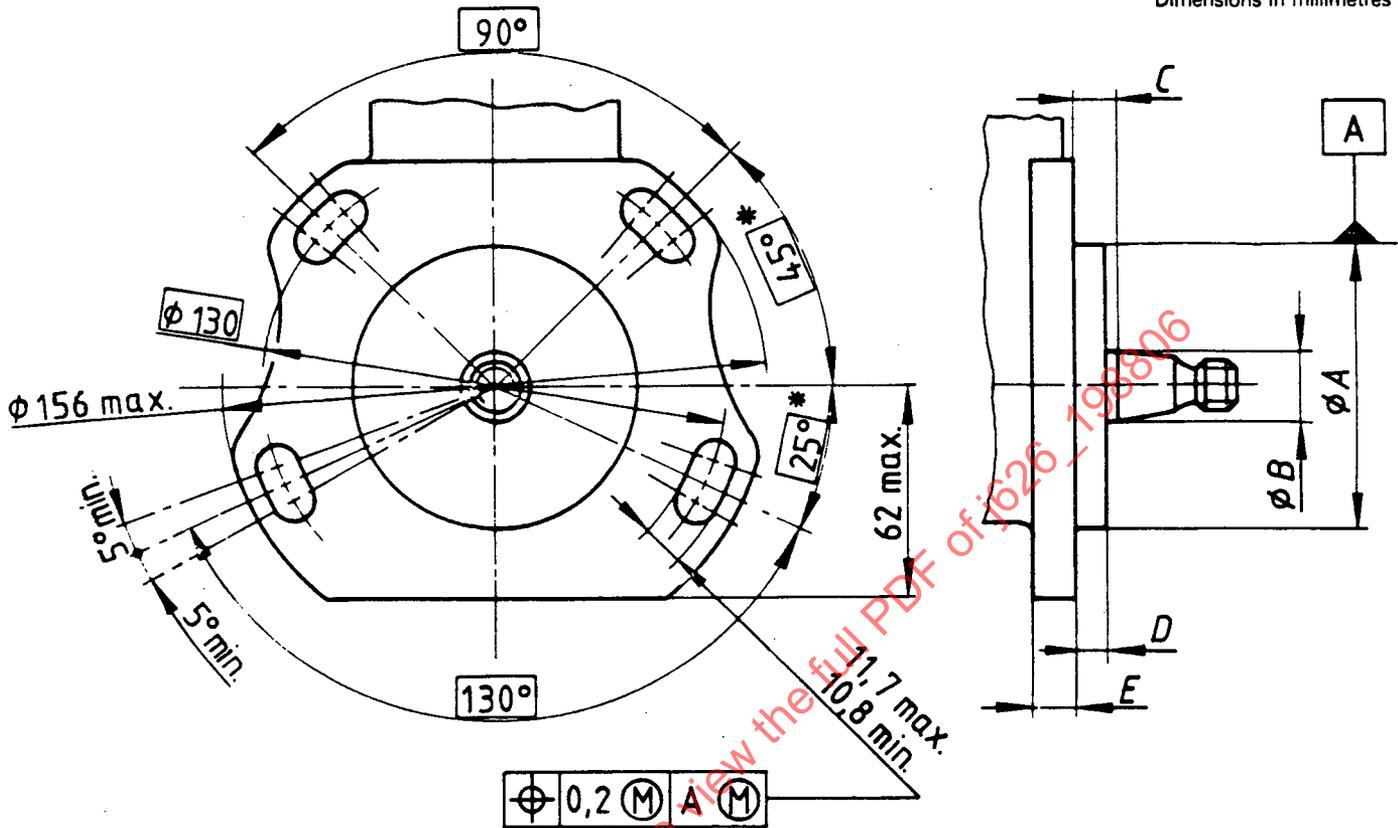
Dimensions in millimetres

A g8	B <sup>1)</sup> nominal	C ± 0.5	D max.	E
68 or 85	17 or	4.5	8.2	15 to 18
	20 or	9.5	8.2	
	22 or 25	12.5	11	
		17.4	16	

<sup>1)</sup>See SAE J1419

3.2.8 Type 8 Flange: See Fig. 8 and Table 8:

Dimensions in millimetres



If it is required to mount a fixed pump, engine manufacturers are encouraged to position the engine studs at true (theoretically correct) angles of 40° above and 20° below the horizontal centreline.

FIGURE 8 - Fuel Injection Pumps - Type 8 End-Mounting Flange

TABLE 8

Dimensions in millimetres

A g8	B1) nominal	C ± 0.5	D max.	E
95 or 107	20 or	9.5	8.2	17 to 20
	25 or 30	13.5	12	
	or 35	18.5	17	

1) See SAE J1419