

A Product of the
Cooperative Engineering Program

SAE J626 JUN88

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

**SAE Standard
Revised June 1988**

SAENORM.COM : Click to view the full PDF file J626-138806

**S. A. E.
LIBRARY**

Submitted for Recognition as
an American National Standard

SAENORM.COM : Click to view the full PDF of j626_198806

No part of this publication may be reproduced in any form,
in an electronic retrieval system or otherwise, without the
prior written permission of the publisher.

Copyright 1988 Society of Automotive Engineers, Inc.

**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 ($\emptyset A$ 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:

SAE Technical Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

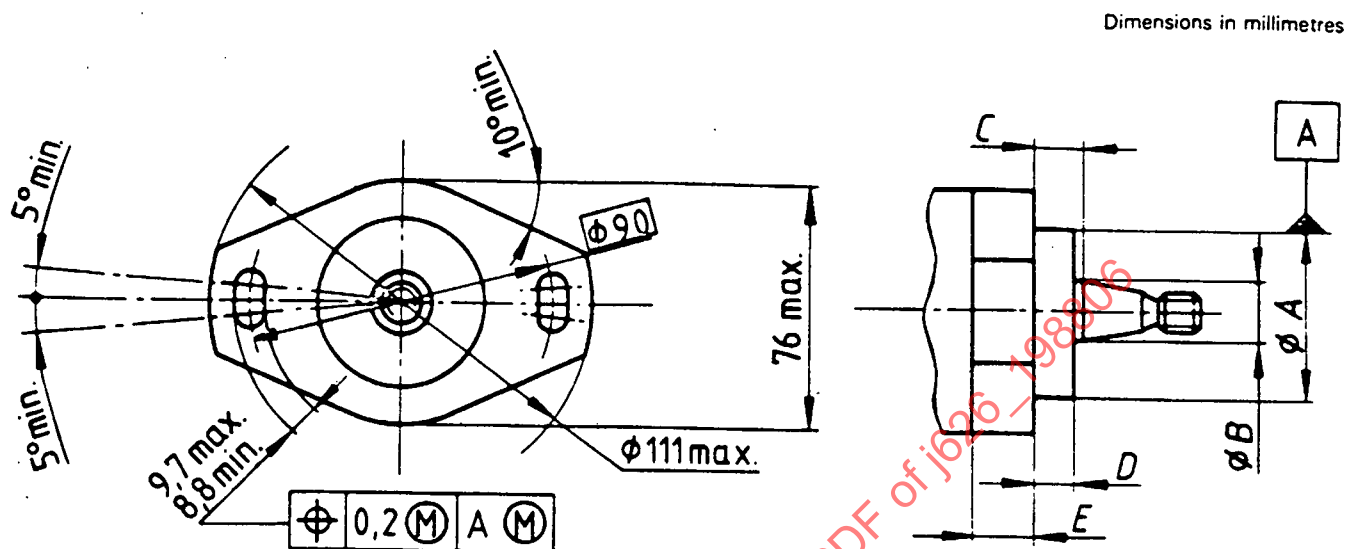
3.2.1 Type 1 Flange: See Fig. 1 and Table 1:

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

TABLE 1

Dimensions in millimetres

A g8	B 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 SAE J1419

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

Dimensions in millimetres

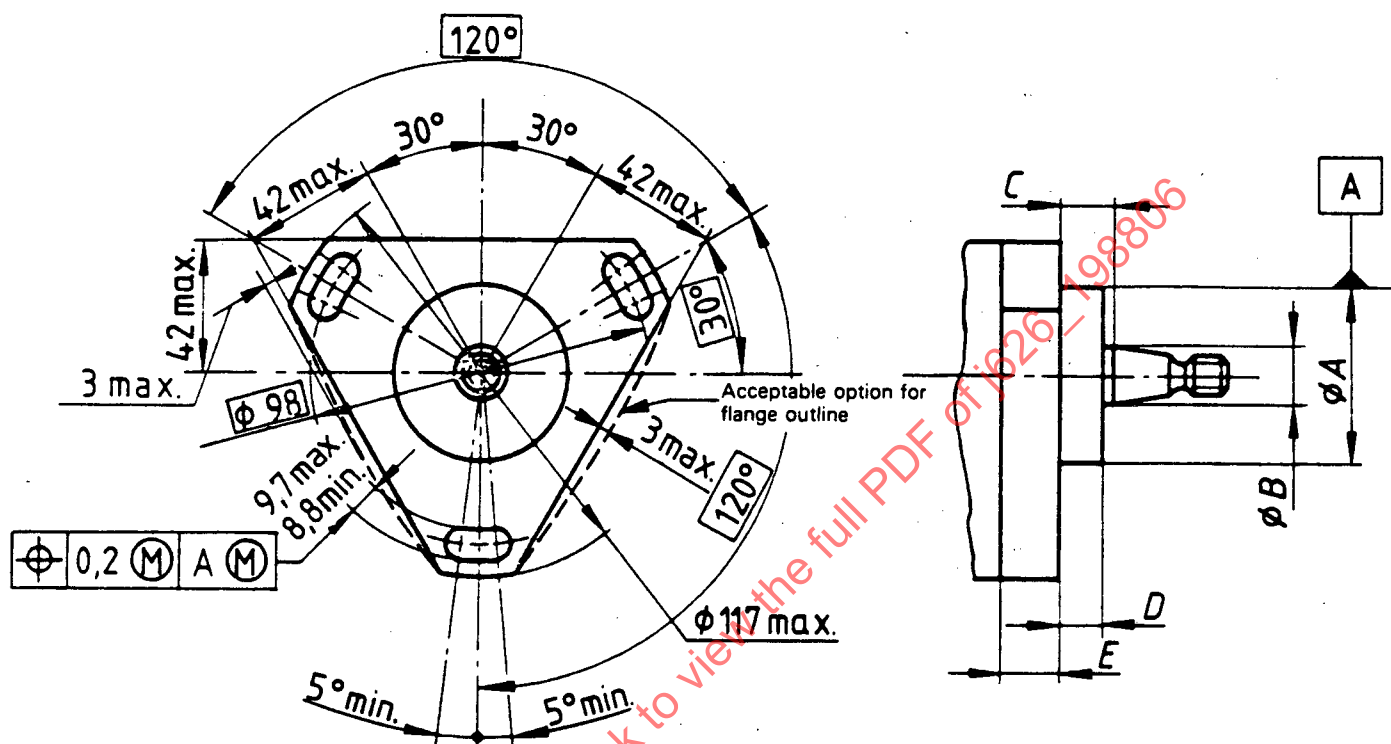


FIGURE 2 - Fuel Injection Pumps - Type 2 End-Mounting Flange

TABLE 2

Dimensions in millimetres

A g8	B 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 SAE J1419

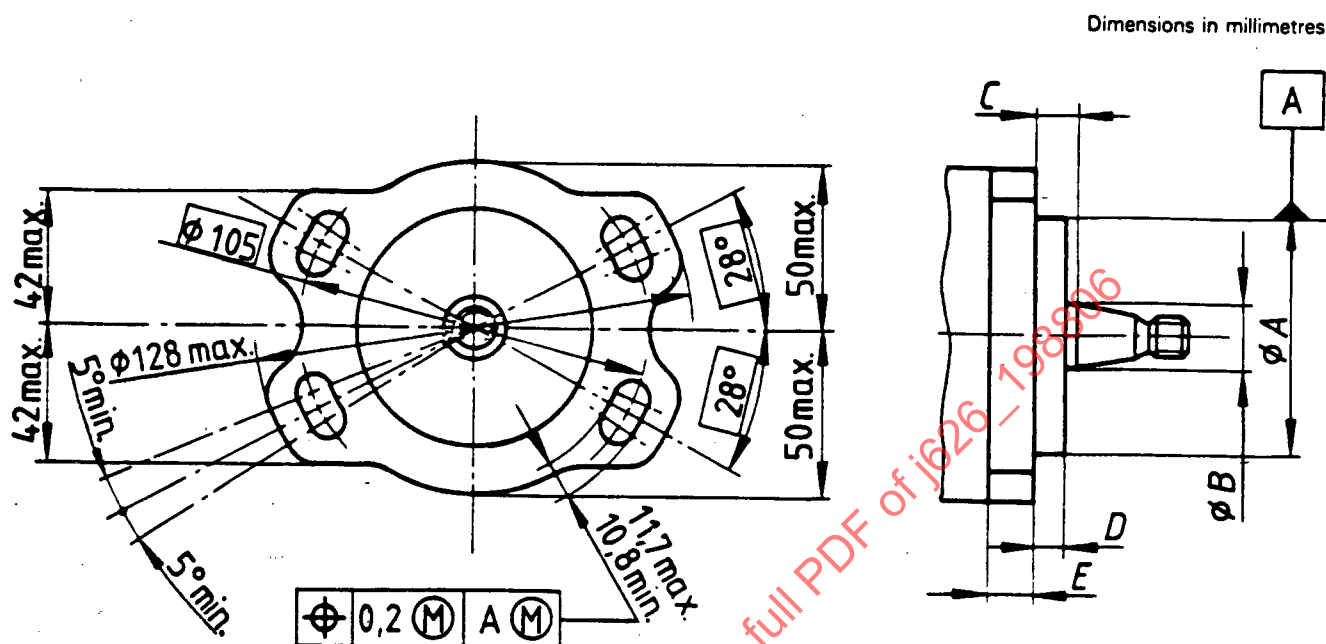
3.2.3 Type 3 Flange: See Fig. 3 and Table 3:

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

TABLE 3

Dimensions in millimetres

A g8	B ¹⁾ 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	

1) See SAE J1419

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

Dimensions in millimetres

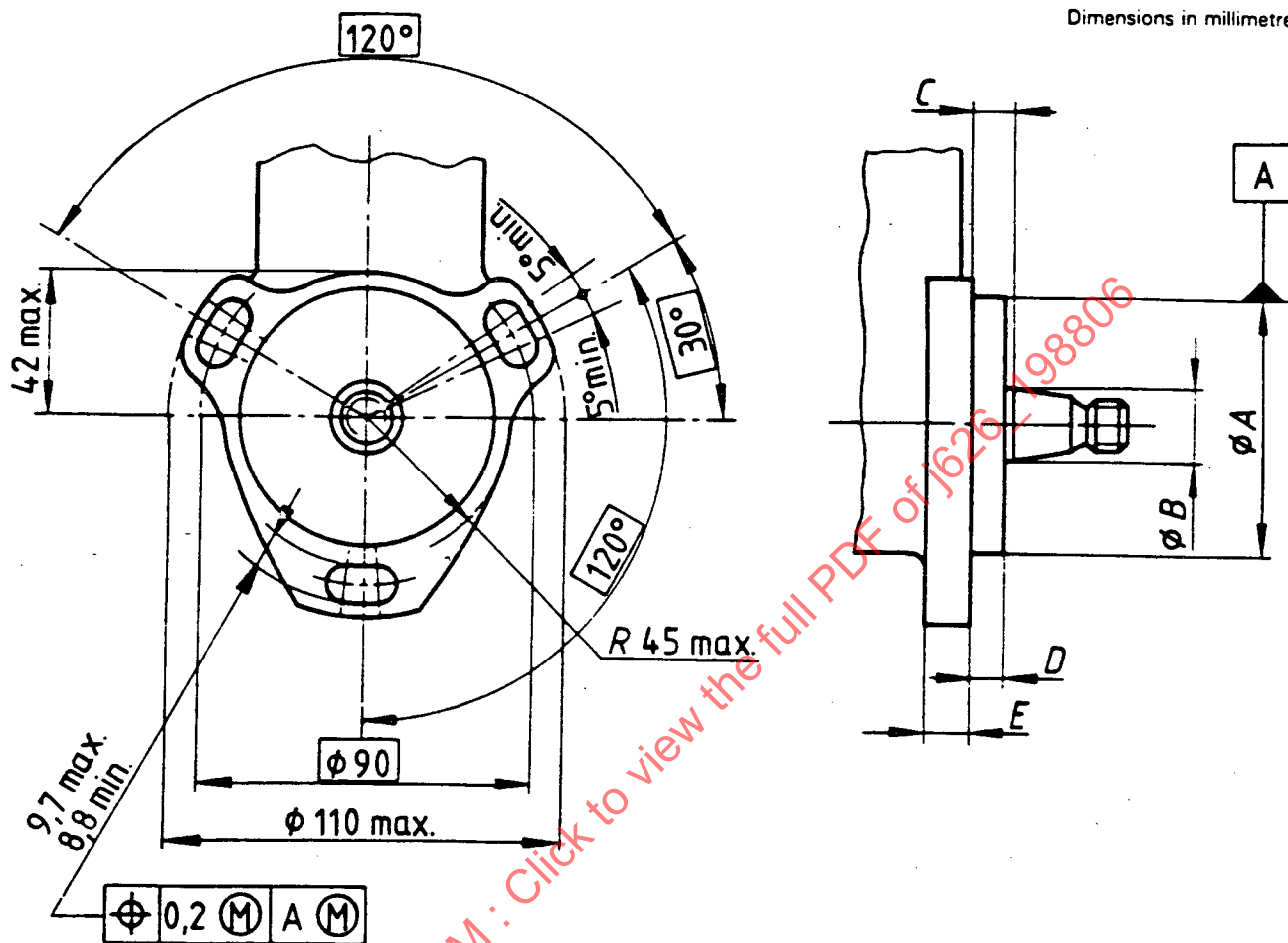


FIGURE 4 - Fuel Injection Pumps - Type 4 End-Mounting Flange

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 SAE J1419

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

Dimensions in millimetres

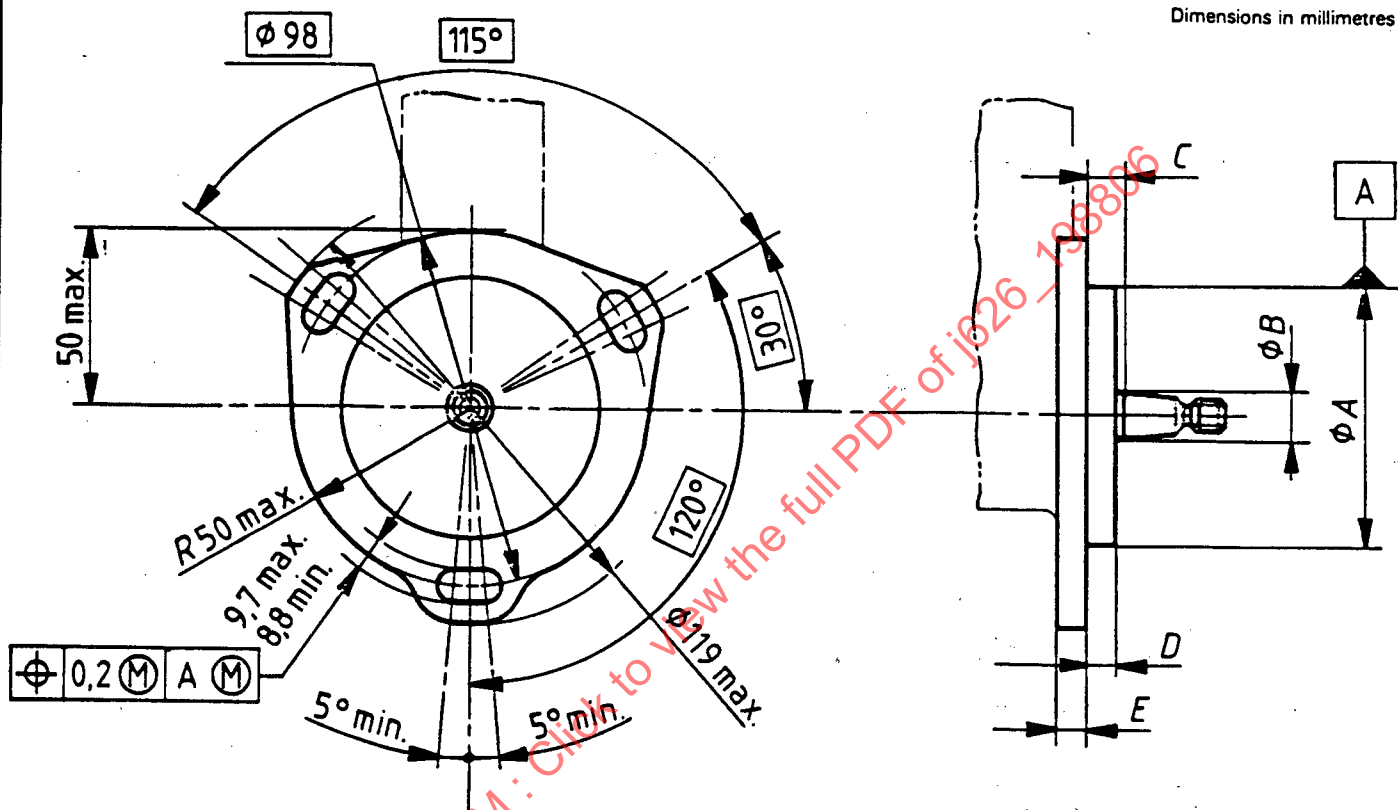


FIGURE 5 - Fuel Injection Pumps - Type 5 End-Mounting Flange

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 SAE J1419

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

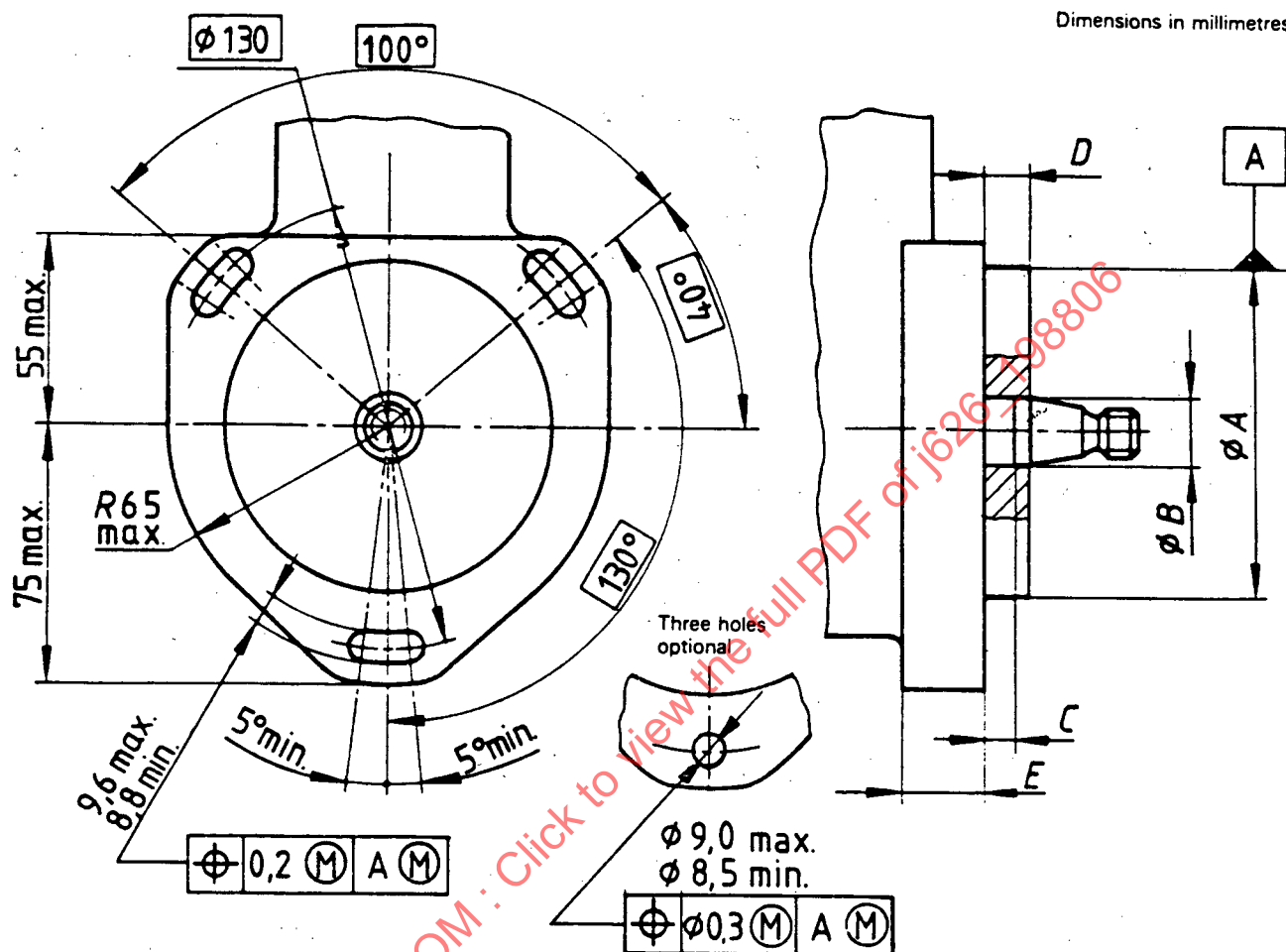


FIGURE 6 - Fuel Injection Pumps - Type 6 End-Mounting Flange

TABLE 6

Dimensions in millimetres

A g8	B1) 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 SAE J1419

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

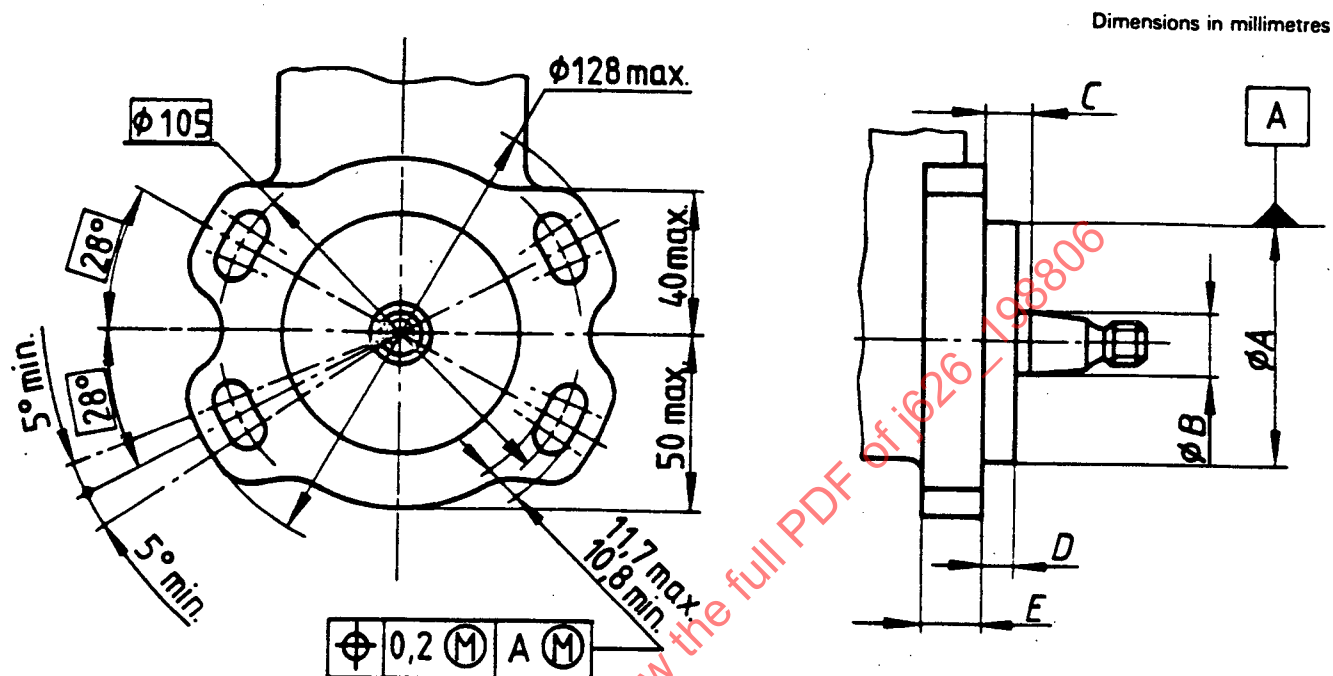


FIGURE 7 - Fuel Injection Pumps - Type 7 End-Mounting Flange

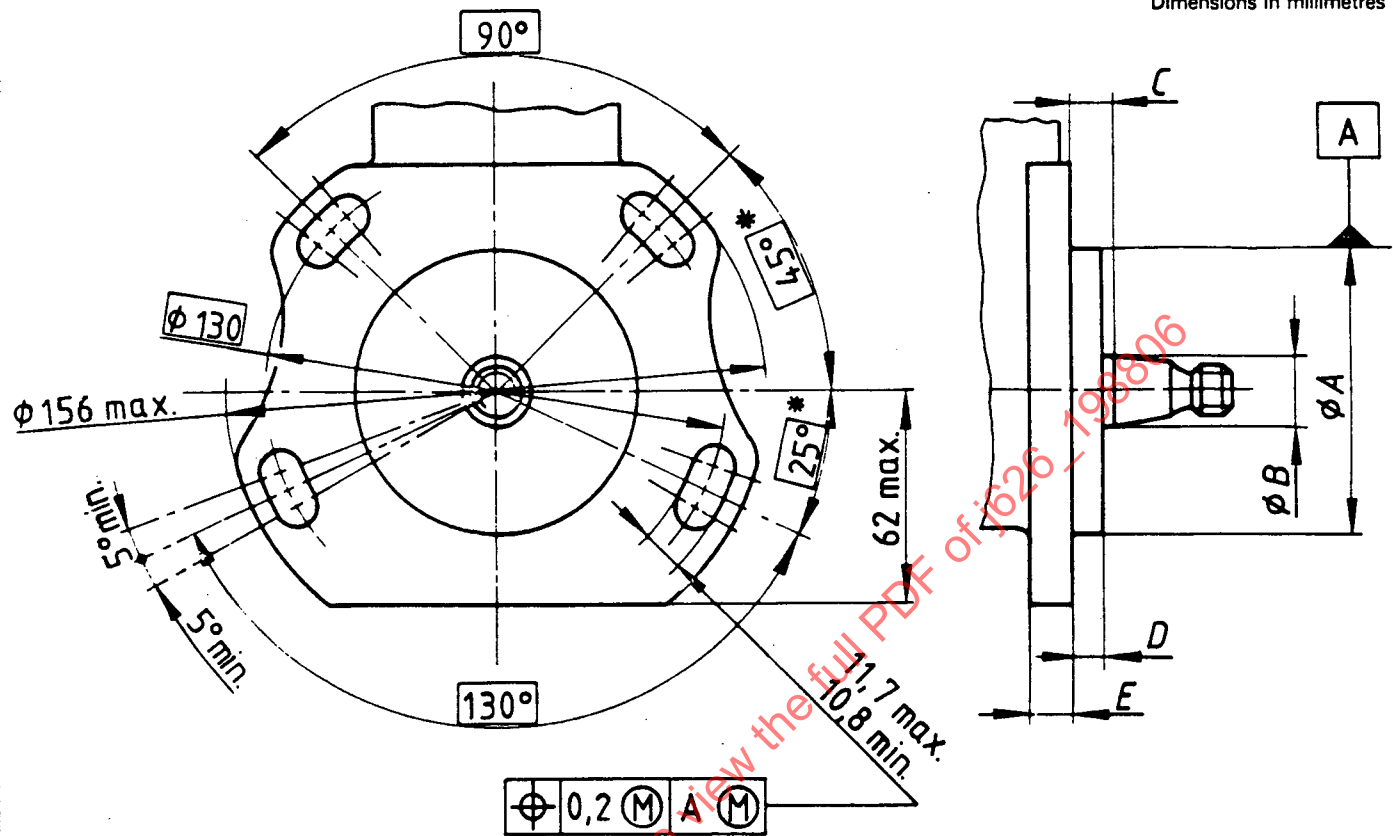
TABLE 7

Dimensions in millimetres

A g8	B ¹⁾ 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	

¹⁾ See SAE J1419

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



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