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SAE J927 NOV88

**Flywheels for Engine
Mounted Torque
Converters**

SAE Recommended Practice
Revised November 1988

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FLYWHEELS FOR ENGINE MOUNTED TORQUE CONVERTERS

1. SCOPE:

This SAE Recommended Practice defines flywheel configuration to promote standardization of flywheels for engine flywheel mounted torque converters.

- ∅ Table 1 and Fig. 1 give dimensions for flywheel mounted-type torque converters. For torque converters using drive ring overcenter type disconnect clutch, see SAE J620.

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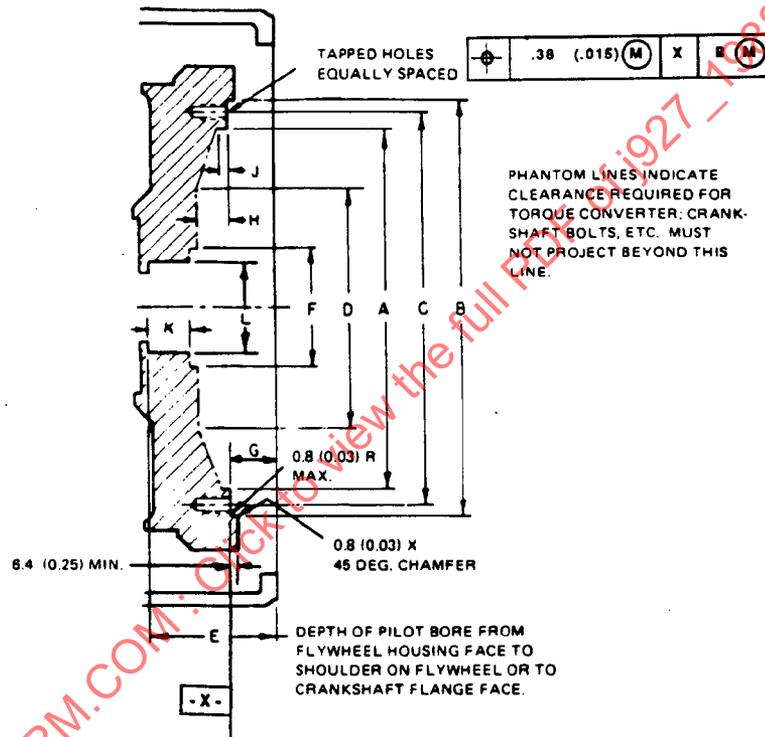


FIGURE 1

The phi (ϕ) symbol is for the convenience of the user in locating areas where technical revisions have been made to the previous issue of the report. If the symbol is next to the report title, it indicates a complete revision of the report.

TABLE 1 - Dimensions of Flywheels-mm (in)

Converter Flywheel No.	A	Ba,b	C	D	E ⁱ	F	G ⁱ	H	J	K ^c	L ^{b,c}	Tapped Holes ^d		Normally used with SAE Housing Size
												No.	Size	
209	206.2 (8.12)	241.30 (9.500)	222.25 (8.750)	—	71.4 (2.81)	63.5 (2.50)	30.2 (1.19)	12.7 (0.50)	12.7 (0.50)	17.5 (0.69)	52.000 (2.0472)	12 ^h	(5/16-18)	6
40	225.6 (8.88)	263.52 (10.375)	244.48 (9.625)	—	71.4 (2.81)	76.2 (3.00)	30.2 (1.19)	12.7 (0.50)	12.7 (0.50)	19.0 (0.75)	52.000 (2.0472)	12 ^h	(5/16-18)	5
60	314.5 (12.38)	352.42 (13.875)	333.38 (13.125)	203.2 (8.00)	100.1 (3.94)	—	53.8 (2.12)	23.9 (0.94)	7.9 (0.31)	22.4 (0.88)	52.000 (2.0472)	12 ^h	(3/8-16)	4
80	314.5 (12.38)	352.42 (13.875)	333.38 (13.125)	—	100.1 (3.94)	—	66.5 (2.62)	11.2 (0.44)	—	22.4 (0.88)	52.000 (2.0472)	12	(3/8-16)	3
100	314.5 (12.38)	352.42 (13.875)	333.38 (13.125)	203.2 (8.00)	100.1 (3.94)	66.5 (2.62)	53.8 (2.12)	15.7 (0.62)	7.9 (0.31)	22.4 (0.88)	62.000 (2.4409)	12	(3/8-16)	3
120	349.2 (13.75)	393.70 (15.500)	371.48 (14.625)	228.6 (9.00)	100.1 (3.94)	76.2 (3.00)	53.8 (2.12)	15.7 (0.62)	4.8 (0.19)	22.4 (0.88)	72.000 (2.8346)	12	(3/8-16)	2
140	409.4 (16.12)	466.72 (18.375)	438.15 (17.250)	228.6 (9.00)	100.1 (3.94)	82.6 (3.25)	50.8 (2.00)	15.7 (0.62)	3.0 (0.12)	22.4 (0.88)	80.000 (3.1496)	12	(1/2-13)	1
160	460.2 (18.12)	517.52 (20.375)	488.95 (19.250)	—	100.1 (3.94)	104.6 (4.12)	15.7 (0.62)	44.4 (1.75)	44.4 (1.75)	33.3 (1.31)	80.000 (3.1496)	12	(1/2-13)	1/2
180 ^f	498.3 (19.62)	571.52 (22.500)	542.92 (21.375)	—	100.1 (3.94)	104.6 (4.12)	15.7 (0.62)	44.4 (1.75)	44.4 (1.75)	33.3 (1.31)	80.000 (3.1496)	12	(5/8-11)	0
210 ^f	584.2 (23.00)	673.10 (26.500)	641.35 (25.250)	—	100.1 (3.94)	146.0 (5.75)	0.0 (0.00)	31.8 (1.25)	31.8 (1.25)	57.2 (2.25)	130.000 (5.1181)	12	(5/8-11)	00
240 ^e	644.7 (25.38)	733.42 (28.875)	692.15 (27.250)	—	100.1 (3.94)	146.0 (5.75)	0.0 (0.00)	31.8 (1.25)	31.8 (1.25)	57.2 (2.25)	130.000 (5.1181)	12	(3/4-10)	00

NOTE: Suggested tolerances are to be measured on assembled engine; for measuring procedure, see SAE J1033.

^aDiameter tolerance of pilot bore B is +0.13 (0.005), -0.000; maximum eccentricity is 0.13 (0.005) total indicator reading (see footnote b), face runout maximum total indicator reading is 0.0005 times the measured diameter.

^bEccentricity between pilot bore B and pilot bore L is not to exceed 0.20 (0.008) total indicator reading.

^cK is length of pilot bore; L is nominal diameter of bore. Diameter and fit are to suit installation. Maximum eccentricity is 0.13 (0.005) total indicator reading. (See footnote b.)

^dTapped holes shall be threaded in accordance with UNC Class 2B tolerances of ANSI B1.1 screw threads, and the minimum length of thread engagement shall be 1.5 times the nominal diameter.

^eIdentical to No. 24 in SAE J620.

^fIdentical to No. 21 in SAE J620.

^gIdentical to No. 7-1/2 in SAE J620 except for number of tapped holes.

^hCompatible with 3, 4, 6 or 12 bolt converter mounting.

ⁱTolerances for dimensions "G" and "E" not to exceed the tolerance for "E" as defined in SAE J617.