

STANDARD

SAE J621d

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INDUSTRIAL POWER TAKE-OFFS WITH DRIVING RING TYPE OVERCENTER CLUTCHES—SAE J621d

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SAE Standard

Report of Construction and Industrial Machinery Technical Committee approved November 1956 and completely revised March 1977.

SCOPE - This SAE standard defines installation dimensions of industrial power take-offs with driving ring type overcenter clutches.

1) Table 1 and the Figure give dimensions for power take-offs. For dimensions and tolerances of power take-off flanges and flywheels see J617 and J620 respectively.

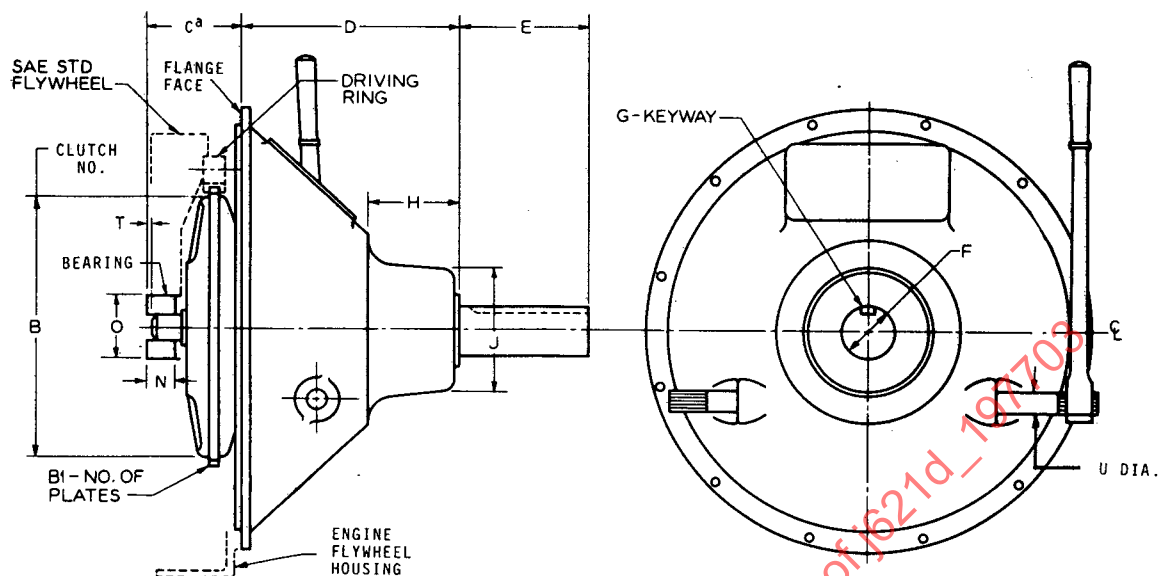


TABLE 1 - DIMENSIONS FOR INDUSTRIAL POWER TAKE-OFFS WITH DRIVING RING TYPE OVERCENTER CLUTCHES mm (inch)

SAE FLYWHEEL HOUSINGS FOR INDUSTRIAL POWER TAKE-OFFS WITH DRIVING RING TYPE OVERCENTER CLUTCHES										mm (Inch)					
B	B1	C ^a	D	E	+0.000 (+0.0000) -0.025 (0.0010)	G	H	J							
6-1/2	1	71.4 (2.81)	141.2 (5.56)	88.9 (3.50)	36.512 (1.4375)	3/8 x 3/16	22.4 (0.88)	114.3 (4.50)							
7-1/2	1	71.4 (2.81)	141.2 (5.56)	88.9 (3.50)	36.512 (1.4375)	3/8 x 3/16	22.4 (0.88)	114.3 (4.50)							
8	1	100.1 (3.94)	179.3 (7.06)	152.4 (6.00)	44.450 (1.7500)	1/2 x 1/4	58.7 (2.31)	127.0 (5.00)							
10	1	100.1 (3.94)	218.9 (8.62)	139.7 (5.50)	57.150 (2.2500)	5/8 x 5/16	95.2 (3.75)	146.0 (5.75)							
11-1/2	1	100.1 (3.94)	235.0 (9.25)	165.1 (6.50)	57.150 (2.2500)	5/8 x 5/16	95.2 (3.75)	146.0 (5.75)							
11-1/2	2	100.1 (3.94)	244.3 (9.62)	165.1 (6.50)	63.500 (2.5000)	5/8 x 5/16	76.2 (3.00)	152.4 (6.00)							
14	1	100.1 (3.94)	307.8 (12.12)	215.9 (8.50)	76.200 (3.0000)	3/4 x 3/8	95.2 (3.75)	168.1 (6.62)							
14	2	100.1 (3.94)	349.2 (13.75)	254.0 (10.00)	88.900 (3.5000)	7/8 x 7/16	73.2 (2.88)	190.5 (7.50)							
14	3	100.1 (3.94)	368.3 (14.50)	254.0 (10.00)	100.012 (3.9375)	1 x 1/2	73.2 (2.88)	190.5 (7.50)							
16	2	100.1 (3.94)	374.6 (14.75)	254.0 (10.00)	100.012 (3.9375)	1 x 1/2	73.2 (2.88)	190.5 (7.50)							
16	3	100.1 (3.94)	423.9 (16.69)	254.0 (10.00)	100.012 (3.9375)	1 x 1/2	73.2 (2.88)	190.5 (7.50)							
18	1	100.1 (3.94)	374.6 (14.75)	254.0 (10.00)	100.012 (3.9375)	1 x 1/2	73.2 (2.88)	190.5 (7.50)							
18	2	100.1 (3.94)	423.9 (16.69)	254.0 (10.00)	100.012 (3.9375)	1 x 1/2	73.2 (2.88)	190.5 (7.50)							
18	3	100.1 (3.94)	463.6 (18.25)	254.0 (10.00)	114.300 (4.5000)	1 x 1/2	47.8 (1.88)	254.0 (10.00)							
21	1	100.1 (3.94)	419.1 (16.50)	254.0 (10.00)	114.300 (4.5000)	1 x 1/2	73.2 (2.88)	241.3 (9.50)							
21	2	100.1 (3.94)	457.2 (18.00)	254.0 (10.00)	120.650 (4.7500)	1-1/4 x 5/8	79.2 (3.12)	254.0 (10.00)							
21	3	100.1 (3.94)	505.0 (19.88)	254.0 (10.00)	120.650 (4.7500)	1-1/4 x 5/8	69.8 (2.75)	279.4 (11.00)							
24	1	100.1 (3.94)	501.6 (19.75)	254.0 (10.00)	114.300 (4.5000)	1 x 1/2	73.2 (2.88)	241.3 (9.50)							
24	2	100.1 (3.94)	576.9 (20.31)	254.0 (10.00)	120.650 (4.7500)	1-1/4 x 5/8	79.2 (3.12)	254.0 (10.00)							
B	B1	N	O	T	U	SAE No. Flywheel Housing									
6-1/2	1	15.00 (0.591)	52.000 (2.0472)	1.5 (0.06)	25.4 (1.00)	6	5	4	3	2	1	1/2	0	00	
7-1/2	1	15.00 (0.591)	52.000 (2.0472)	1.5 (0.06)	25.4 (1.00)	•	•	•	•	•	•	•	•	•	
8	1	17.00 (0.669)	62.000 (2.4409)	1.5 (0.06)	25.4 (1.00)	•	•	•	•	•	•	•	•	•	
10	1	30.18 (1.188)	72.000 (2.8346)	1.5 (0.06)	25.4 (1.00)	•	•	•	•	•	•	•	•	•	
11-1/2	1	30.18 (1.188)	72.000 (2.8346)	1.5 (0.06)	25.4 (1.00)	•	•	•	•	•	•	•	•	•	
11-1/2	2	30.18 (1.188)	72.000 (2.8346)	1.5 (0.06)	25.4 (1.00)	•	•	•	•	•	•	•	•	•	
14	1	34.92 (1.375)	80.000 (3.1496)	3.0 (0.12)	25.4 (1.00)	•	•	•	•	•	•	•	•	•	
14	2	34.92 (1.375)	80.000 (3.1496)	3.0 (0.12)	25.4 (1.00)	•	•	•	•	•	•	•	•	•	
14	3	39.67 (1.562) ^e	100.000 (3.9370) ^e	3.0 (0.12)	25.4 (1.00)	•	•	•	•	•	•	•	•	•	
16	2	39.67 (1.562)	100.000 (3.9370)	3.0 (0.12)	25.4 (1.00)	•	•	•	•	•	•	•	•	•	
16	3	39.67 (1.562)	100.000 (3.9370)	3.0 (0.12)	25.4 (1.00)	•	•	•	•	•	•	•	•	•	
18	1	39.67 (1.562)	100.000 (3.9370)	3.0 (0.12)	25.4 (1.00)	•	•	•	•	•	•	•	•	•	
18	2	39.67 (1.562)	100.000 (3.9370)	3.0 (0.12)	25.4 (1.00)	•	•	•	•	•	•	•	•	•	
18	3	49.23 (1.938) ^e	120.000 (4.7244) ^e	3.0 (0.12)	31.8 (1.25)	•	•	•	•	•	•	•	•	•	
21	1	53.98 (2.125)	130.000 (5.1181)	3.0 (0.12)	31.8 (1.25)	•	•	•	•	•	•	•	•	•	
21	2	53.98 (2.125)	130.000 (5.1181)	3.0 (0.12)	31.8 (1.25)	•	•	•	•	•	•	•	•	•	
21	3	53.98 (2.125)	130.000 (5.1181)	3.0 (0.12)	31.8 (1.25)	•	•	•	•	•	•	•	•	•	
24	1	49.23 (1.938) ^e	120.000 (4.7244) ^e	3.0 (0.12)	31.8 (1.25)	•	•	•	•	•	•	•	•	•	
24	2	53.98 (2.125)	130.000 (5.1181)	3.0 (0.12)	31.8 (1.25)	•	•	•	•	•	•	•	•	•	

^a C is from face of flywheel housing to bottom of pilot bore in flywheel

^b 133.4 (5.25) optional - this will decrease D 33.3 (1.31).

^c Requires a flywheel housing and flywheel to provide a 71.4 (2.81) E dimension per SAE J617.

^d Requires a flywheel housing and flywheel to provide a 100.1 (3.94) E dimension per SAE J617.

^e Sizes to match flywheels per J620 are also available.