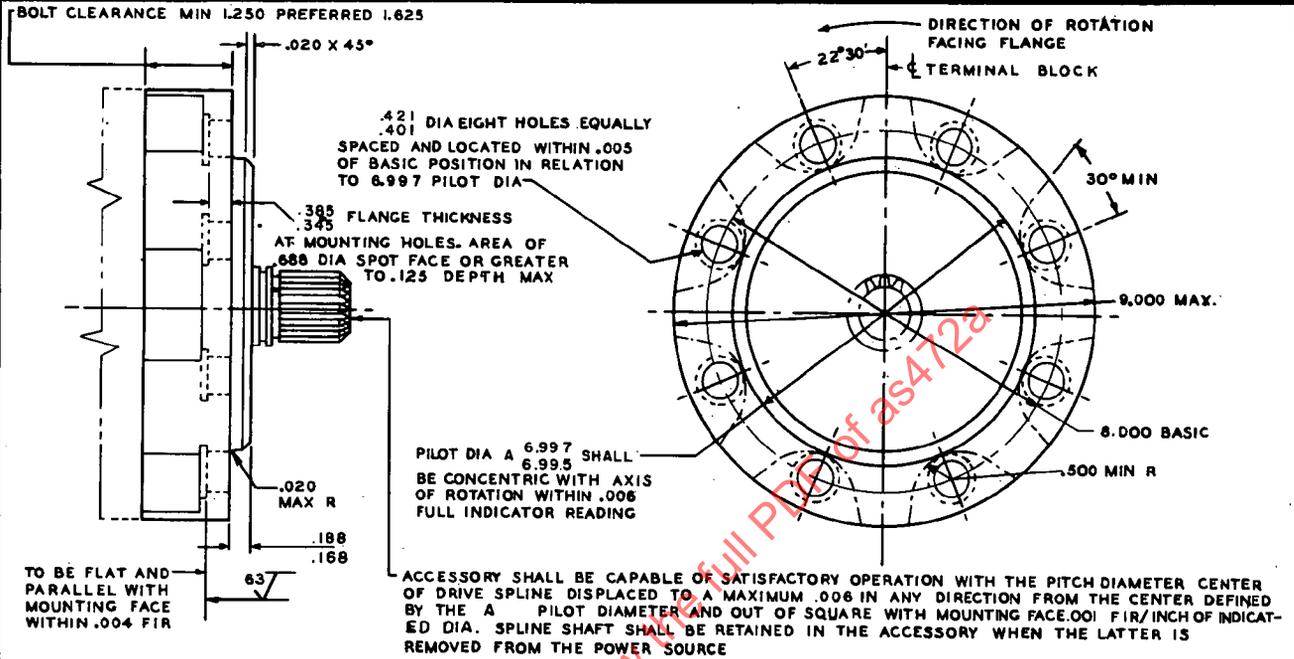


FLANGE-ACCESSORY, 8" BOLT CIRCLE

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Section 0.3 of the SAE Technical Board rules provides that: "All technical reports, including standards approved and practices recommended, are advisory only. Their use by anyone engaged in industry or trade is entirely voluntary. There is no agreement to adhere to any SAE standard or recommended practice, and no commitment to conform to or be guided by any technical report, in formulating and approving technical reports, the Board and its Committees will not investigate or consider patents which may apply to the subject matter. Prospective users of the report are responsible for protecting themselves against infringement of patents."



POWER RATINGS

FLANGE TYPE	SPLINE PD	(a) MAX HP BASED ON 2500 RPM MIN VARIABLE SPEED	(b) MAX HP BASED ON 6000 RPM CONSTANT SPEED	(c) MAX HP BASED ON 8000 RPM CONSTANT SPEED	O RING SIZE CROSS SECTION .135-.143	
					ID ACTUAL	OD NOMINAL
A	0.800	30 (15 KVA)	65 (40 KVA)	95 (60 KVA)	0.728-0.740	1.000
B	1.200	85 (40 KVA)	190 (120 KVA)	250 (160 KVA)	1.103-1.115	1.375
C	1.625	190 (90 KVA)	250 (160 KVA)		1.478-1.490	1.750
D	1.875	250 (120 KVA)			1.724-1.744	2.000
E	2.000	335 (160 KVA)			1.849-1.869	2.125

(a) HP INCLUDES COMBINED EFFICIENCY OF 64% FOR AC GENERATORS AND CONSTANT SPEED TRANSMISSION.
(b) HP INCLUDES EFFICIENCY OF 85% FOR AC GENERATORS.

THE NOMINAL USE OF THIS FLANGE IS FOR AC AND DC AIRCRAFT GENERATORS, CONSTANT SPEED TRANSMISSIONS (DRIVES), AND HIGH SPEED FLUID POWER PUMPS.

THE STATIC TORSIONAL STRENGTH OF THE ACCESSORY DRIVE SHAFT SHALL NOT EXCEED 5 TIMES THE FULL LOAD TORQUE RATING OF THE ACCESSORY AT MINIMUM RATED SPEED. (FOR AC GENERATORS, FULL LOAD IS BASED ON UNITY POWER FACTOR).

THE ACCESSORY SHALL OPERATE SATISFACTORILY WITH OIL LEAKAGE FROM THE DRIVE INTO THE PILOT COMPARTMENT NOT EXCEEDING 3 CC PER HOUR.

IN THE EVENT OF A SHEAR SECTION FAILURE, THE ACCESSORY SHALL BE DESIGNED TO PREVENT DISENGAGEMENT OF THE DRIVE SPLINE COMPONENT. REMOVE ALL BURRS AND SHARP EDGES.

DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS ± .010, ANGLES ± 2°.

THIS DRAWING AND THE APPLICABLE ACCESSORY SPECIFICATIONS, TOGETHER, COMPLETELY DEFINE THE DESIGN REQUIREMENTS.

FOR EXHAUST SHROUD MOUNTING SURFACES ON AIR COOLED AC AND DC GENERATORS, SEE ARP 554 AND 595.

SURFACE ROUGHNESS SYMBOL ✓, AS 291 (AA).

FOR DETAILS OF MATING DRIVE, SEE AS 469.
FOR DETAILS OF SLOTTED MOUNTING HOLE FLANGE, SEE AS 474.
FOR DETAILS OF O RING SEALED MOUNTING FLANGE, SEE AS 481.