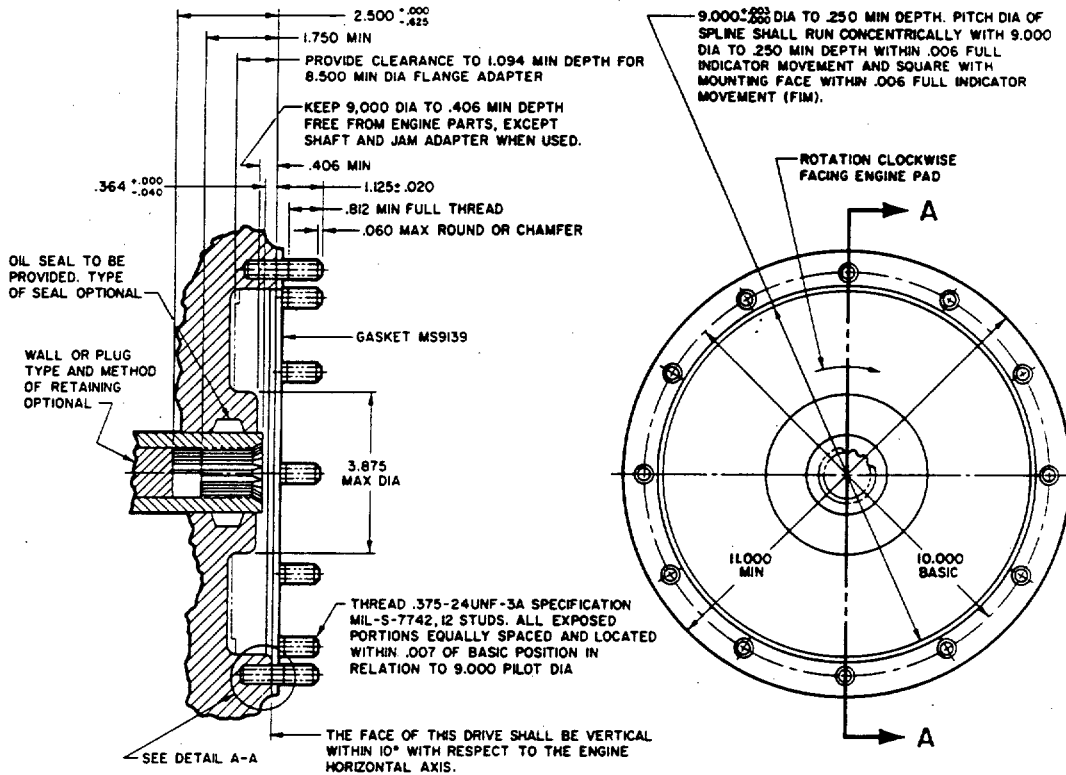
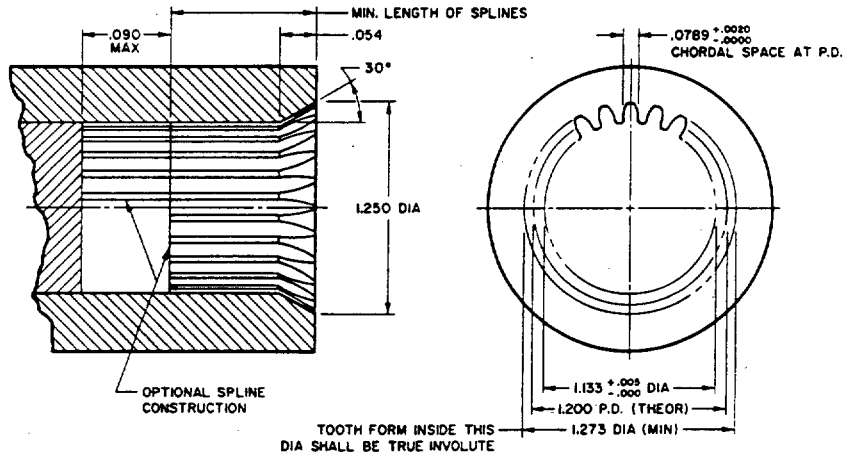


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VIEW - SECTION A-A



SPLINE DETAIL

SPLINE DATA
 24 TEETH
 20/30 PITCH
 30° PRESSURE ANGLE
 SURFACE HARDNESS ROCKWELL C58 MIN
 MIN DEPTH OF EFFECTIVE CASE .010

INACTIVE FOR NEW DESIGN AFTER 8 FEB 1972

⑦ ENTIRE STANDARD REVISED

DESIGN STANDARD

AIR FORCE-NAVY AERONAUTICAL DESIGN STANDARD

AND20006

DRIVE-TYPE XVI ENGINE ACCESSORY

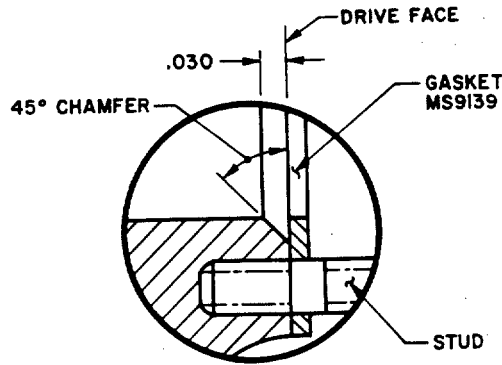
SHEET 1 OF 2

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NOTE: This drawing was approved by joint action of the Air Force and Navy Departments as the Air Force-Navy standard for this product. This drawing supersedes all antecedent standard drawings for the same product and shall become effective for the procurement of aeronautical supplies, or for use in new design, not later than 6 months after the latest date of approval shown.

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 OTHER CUST
 ARMY - AV

APPROVED 6 NOV 46 REVISED ⑥ 8 FEB 1972 ⑦ 22 MAY 1969



DETAIL A-A

TABLE 1. SPEED, STRENGTH, ACCESSORY DATA AND USAGE.

TYPE	SPLINE PD	TORQUE LB-IN			SHAFT SPEED "S" RPM	WEIGHT LB-MAX	ACCESSORY DATA		NOMINAL USE	ENGINE TYPE
		CONTINUOUS TORQUE (Tc)	OVERLOAD TORQUE (To)	STATIC TORQUE (Ts)			OVERHUNG MOM. LB-IN	CLEARANCE		
XVI-A	1.200	1500	2250	6600	7500-8250	150	1250	(b) AND10343	PTO GENERATOR	RECIPROCATING
XVI-B	1.200	1500	2250	6600	(a) 6000	150	1250	(b) AND10343	PTO GENERATOR	TURBOJET & TURBOPROP
XVI-C	1.200	2500	3750	11000	7500-8250	225	2500	(b) AND10343	PTO GENERATOR	RECIPROCATING
XVI-D	1.200	2500	3750	11000	(a) 6000	225	2500	(b) AND10343	PTO GENERATOR	TURBOJET & TURBOPROP

- (a) +400, -00 RPM WHEN THE ENGINE IS OPERATING AT 75% OF NORMAL SEA LEVEL STATIC OUTPUT.
- (b) ACCESSORY CLEARANCE SHALL BE PROVIDED IN ACCORDANCE WITH MANUFACTURER'S MODEL SPECIFICATION.

REQUIREMENTS:

1. MATERIAL } IN ACCORDANCE WITH ENGINE SPECIFICATION.
2. FINISH }
3. DESIGN STRENGTH. THE DRIVE SHALL BE CAPABLE OF DRIVING CONTINUOUS TORQUE LOAD (Tc) AT ANY ENGINE SPEED. THE DRIVE SHALL WITHSTAND THE STATIC TORQUE (Ts) WITHOUT FAILURE OF PERMANENT DEFORMATION, AND SHALL BE ADEQUATE FOR FIVE (5) MINUTES PERIOD OF TORQUE OVERLOAD (To) OPERATION. OVERLOAD PERIODS SHALL BE CONSIDERED AS RECURRING AT FOUR (4) HOUR INTERVALS.
4. THE OIL LEAKAGE OUT OF THIS DRIVE SHALL NOT EXCEED 2 CC PER HOUR.
5. PAD OUTLINE AS DIMENSIONED IS A BASIC MINIMUM AREA REQUIREMENT.

NOTE:

1. REMOVE ALL BURRS AND SHARP EDGES.
2. DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS ±.010, ANGLES ±2°.
3. SPEED "S" IS DRIVE SHAFT SPEED AT NORMAL RATED ENGINE SPEED UNLESS OTHERWISE NOTED.
4. THIS DRAWING AND THE APPLICABLE ENGINE SPECIFICATIONS, TOGETHER, COMPLETELY DEFINE THE DESIGN REQUIREMENTS.
5. DATA FOR TYPE XVI-S AND XVI-T, SEE MS18054.
6. THE JAW ADAPTER WAS DELETED FOR CONVERTING TO TYPE XII ENGINE DRIVE DIMENSIONS. FOR TYPE XII ENGINE DRIVE (SEE AND20002).
7. IN THE EVENT OF A CONFLICT BETWEEN THE TEXT OF THIS STANDARD AND THE REFERENCES CITED HEREIN, THE TEXT OF THIS STANDARD SHALL TAKE PRECEDENCE.
8. REFERENCED GOVERNMENT (OR NON-GOVERNMENT) DOCUMENTS OF THE ISSUE LISTED IN THAT ISSUE OF THE DEPARTMENT OF DEFENSE INDEX OF SPECIFICATIONS AND STANDARDS (DoDISS) SPECIFIED IN THE SOLICITATION FORM A PART OF THIS STANDARD TO THE EXTENT SPECIFIED HEREIN.

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AIR FORCE-NAVY AERONAUTICAL DESIGN STANDARD

DRIVE-TYPE XVI ENGINE ACCESSORY

AND20006

SHEET 2 OF 2

APPROVED 6 NOV 46 REVISED 7 FOR CHANGES SEE SHEET 1 AND 2