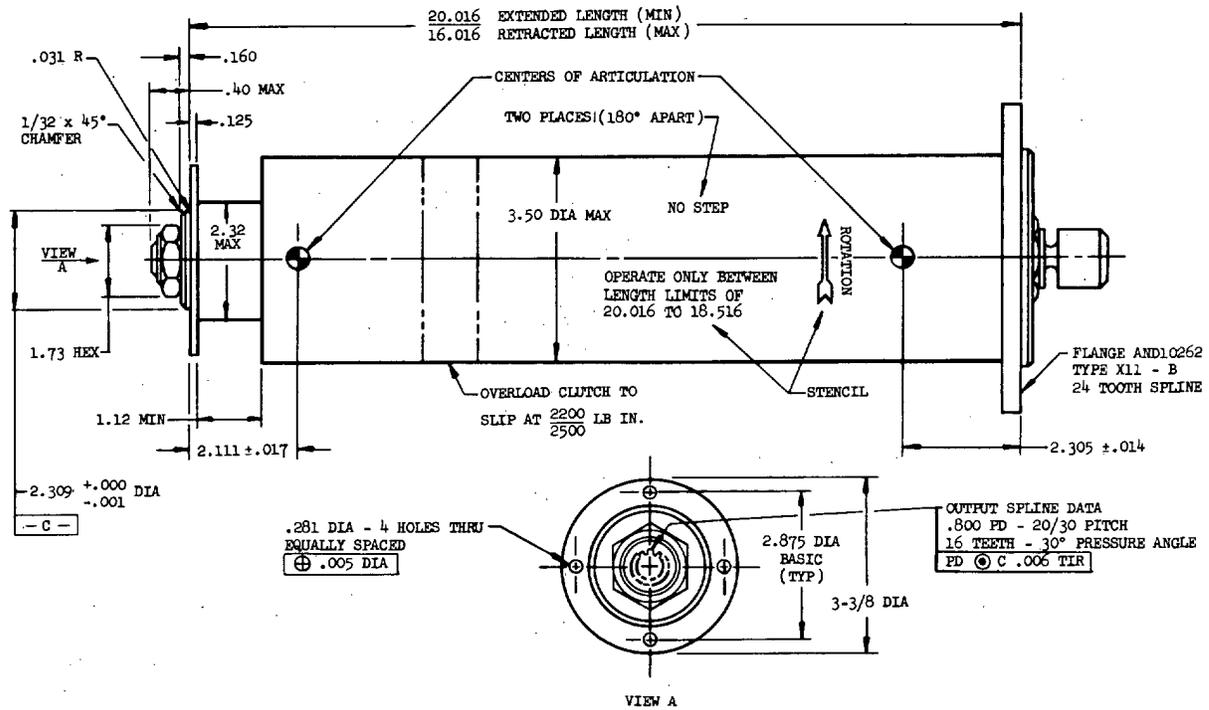


MIL-T-5091/2(WP)  
9 JULY 1965

## MILITARY SPECIFICATION SHEET

TRANSMISSION, POWER, CONSTANT RATIO  
SHAFT, FLEXIBLE DRIVE, 47 HP

The complete requirements for procuring the transmission described herein shall consist of this document and the issue in effect of MIL-T-5091(WP).



## REQUIREMENTS:

RATED LOAD (MAX CONTINUOUS) AT 2800 RPM	47 HP
OVERLOAD RATINGS: 5 MINS, AT 2800 RPM	70 HP
5 SECS, AT 2800 RPM	85 HP
MISALIGNMENT CAPABILITY AT EACH OF TWO ARTICULATING JOINTS	5° CONTINUOUS, 10° FOR 5 SEC
SHEAR SECTION - INPUT	4030 ± 240 LB IN.
OVERSPEED	11,000 RPM
IMBALANCE (EACH END, MAX)	0.15 OZ IN.
THRUST TO EXTEND OR SHORTEN SHAFT LENGTH AT 955 LB IN TORQUE (MAX)	50 LB
EFFICIENCY AT RATED LOAD OVER RATED SPEED (MIN)	99 1/2
WEIGHT (MAX)	12.5 LB
FLIGHT OPERATING LIFE TO FIRST OVERHAUL (MIN)	750 HR
SPEED RANGE (CONTINUOUS)	2800-8800 RPM

## NOTES:

- FINISH (PROTECTIVE COATING): THE SHAFT SHALL BE FINISHED IN A COLOR CONFORMING TO FED-STD-595 COLOR NUMBER 17875. THE FINISH SHALL BE UNAFFECTED BY ENVIRONMENTAL CONDITIONS SPECIFIED HEREIN.
- DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES ± .010. DIMENSIONING AND TOLERANCING SHALL BE IN ACCORDANCE WITH MIL-STD-8.
- THE SHAFT SHALL INCORPORATE A TELESCOPING DEVICE AND SEALED BEARINGS.
- FLIGHT TEST: 100 HOURS FLIGHT TIME ON THE S2 AIRCRAFT IS REQUIRED FOR QUALIFICATION.

PART NUMBER: M5091/2-47

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