



Full document details: [SAE AS971B](#)

TABLE 1

DASH NO.	SPLINE SIZE PD
1	(20.320) 0.800
2	(30.480) 1.200
3	(41.275) 1.625
4	(50.800) 2.000

NOTES:

1. OPERATING SPEEDS AND TORQUES, SHAFT TORSIONAL STRENGTH, AND ACCESSORY WEIGHT AND OVERHUNG MOMENT CAPACITIES SHALL BE SPECIFIED IN THE APPLICABLE POWER SOURCE MODEL SPECIFICATION OR BY THE PROCURING AGENCY.
2. SEE AIR1160 FOR INFORMATION RELATIVE TO THE APPLICATION OF THIS STANDARD.
3. DRIVE SHAFT: DETAILS OF DRIVE SHAFT AND SPLINE DESIGN DATA ARE SHOWN ON AS972. TRUE POSITION AND PERPENDICULARITY OF SPLINE SHALL BE MAINTAINED THROUGH 360° OF SPLINE ROTATION.
4. LUBRICATION: SPLINE LUBRICATION SHALL BE PROVIDED. METHOD OF LUBRICATION SHALL BE SPECIFIED IN THE APPLICABLE POWER SOURCE MODEL SPECIFICATION OR BY THE PROCURING AGENCY.
5. OIL LEAKAGE: OIL LEAKAGE OUT OF THE DRIVE SHALL NOT EXCEED .003 L PER HOUR. PROVISIONS FOR DRAINING OIL FROM THE DRIVE CAVITY SHALL BE SUPPLIED.
6. ACCESSORY SPACE: SPACE AVAILABLE FOR ACCESSORIES SHALL BE SHOWN ON THE POWER SOURCE INSTALLATION DRAWING.
7. DIMENSIONS: ALL LINEAR DIMENSIONS ARE IN (MILLIMETERS) INCHES. DIMENSIONS AND TOLERANCES: ANSI Y14.5-1982. TRUE POSITION TOLERANCES ARE MAXIMUM MATERIAL CONDITION UNLESS OTHERWISE SPECIFIED.
8. TOLERANCES: LINEAR (± 0.25) ± 0.10 , ANGULAR $\pm 2^\circ$ UNLESS OTHERWISE SPECIFIED.
9. BREAK SHARP EDGES (0.08 TO 0.38) .003 TO .015 UNLESS OTHERWISE SPECIFIED.
10. FINISH: SURFACE TEXTURE PER ANSI/ASME B46.1
11. MATING FLANGE: SEE AS968 FOR DETAILS OF MATING ACCESSORY FLANGE.
12. COUPLING: SEE AS976 AND AS977 FOR DETAILS OF V BAND COUPLING.
13. STUDS SHALL BE OMITTED WHEN USING A "V" BAND OR THEY MAY BE REPLACED BY THREADED HOLES WHEN SO SPECIFIED IN THE APPLICABLE POWER SOURCE MODEL SPECIFICATION OR BY THE PROCURING AGENCY.
14. DOWEL HOLE SHALL BE PROVIDED UNLESS OTHERWISE SPECIFIED IN THE APPLICABLE POWER SOURCE MODEL SPECIFICATION OR BY THE PROCURING AGENCY.
15. DESIGNATION: THE AS NUMBER WITH DASH NUMBER DEFINES THE CONFIGURATION OF THE DRIVE.

EXAMPLE: AS971 - 2 IS A (254.000) 10.000 BC ROUND QAD DRIVE WITH A (30.480) 1.200 P.D. OUTPUT SPLINE.
16. REFERENCE DOCUMENTS ARE THOSE IN EFFECT ON THE DATE OF ISSUANCE OF THIS DOCUMENT.