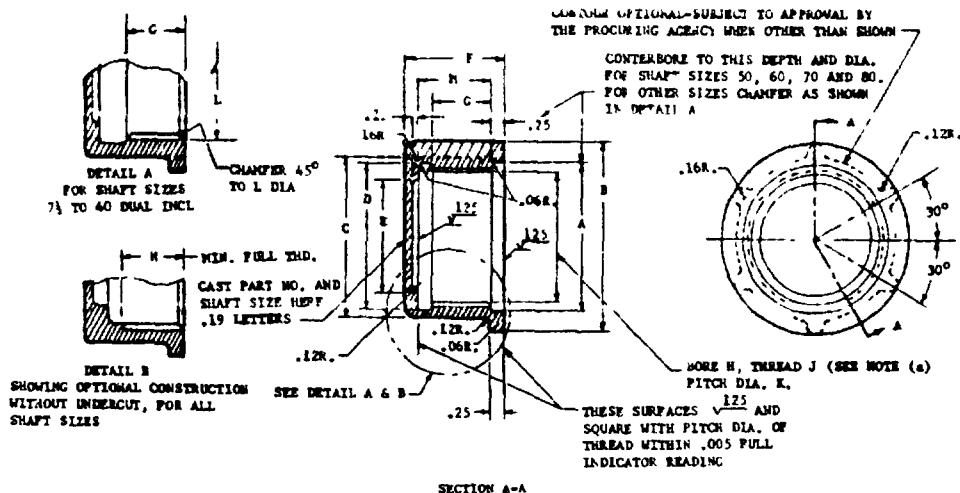


the military standard has been approved by the Department of Defense and is mandatory for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

FED SUP CLASS
5140



SECTION A-A

MS PART NO	SHAFT NO.	A DIA.	B DIA.	C DIA.	(B) DIA.	E DIA.	F	G MIN.	H DIA.	THREAD J (REF)	I DIA.	V DIA. ± 0.10	M	N
MS27417-7½	7½	-	2.31	1.81	1.50	.81	1.43	.68		(g) 1.375-12N-2		1.40	1.18	.92
MS27417-10	10	-	2.62	2.12	1.81	1.12	1.37	.62	1.5973±.0000	1.6875-12NS-2	1.6334±.0077	1.71	1.12	.92
MS27417-20	20	-	3.00	2.50	2.19	1.50	1.61	.86	1.9723±.0030	2.0625-12NS-2	2.0084±.0023	2.08	1.36	.99
MS27417-30	30	-	3.25	2.75	2.44	1.75	1.59	.84	2.2234±.0090	2.3125-12NS-2	2.2584±.0083	2.33	1.34	1.01
(c) MS27417-40	40	-	3.75	3.25	2.94	2.25	1.99	.84	2.7234±.0090	2.8125-12NS-2	2.7564±.0083	2.83	1.34	1.01
(g) MS27417-D40	40 DUAL	-	3.75	3.25	2.94	2.25	2.14	1.33	2.7234±.0090	2.8125-12NS-2	2.7584±.0083	2.83	1.49	1.33
MS27417-50	50	3.53	4.44	3.94	3.56	2.75	2.06	1.00	3.3473±.0090	3.4375-12NS-2	3.3834±.0039	-	1.81	1.36
MS27417-60		4.33	5.19	4.69	4.36	3.50	2.31	1.25		(s) 4.250-8N-2		-	2.06	1.55
MS27417-70	70	5.14	6.12	5.62	5.19	4.12	2.31	1.25	4.9897±.0140	5.125-8NS-2	5.0438±.0140	-	2.06	1.55
MS27417-80	80	6.02	7.00	6.50	6.06	5.12	2.30	1.31		(a) 6.000-8N-2		-	2.12	1.55

MATERIAL: Aluminum Alloy, Spec. Q4-A-591.
Magnesium, Spec. Q4-M-33
Zinc Base Die Casting Alloy, Spec. Q4-Z-363
Phenolic, Molded Plastic, Spec. L-P-310, Type XI
Cellulose Acetate Butyrate, Spec. L-P-349, Type I, Class M1

FINISH Aluminum Alloy - Anodize per Spec MIL-A-625, Type II
Magnesium, Corrosion Protection per Spec. MIL-M-3171, Type V.

- (a) Unless otherwise specified, threads shall be in accordance with Handbook H-26.
(b) Dimension D may be same as minor diameter of thread, in which case, additional full thread shall be represented by dimension N in detail B.
(c) This cap may be used on a size 40 dual rotating shaft and when AN5022 Collar and AN5023 Nut is not used.
(d) This cap may be used on a size 40 dual rotating shaft and with AN5022 Collar and AN5023 Nut.
Identification marking shall be in accordance with MIL-STD-130
Marking for shipment shall be in accordance with MIL-STD-129
MS27417 items are universally interchangeable with AN5012 items of like dash numbers
Unless otherwise specified, dimensions in inches Tolerances Decimals $\pm .02$, Angles $\pm 1/2^\circ$,
Rough Casting $\pm .03$
Shaft End design Standard ANDIUL52
Break all sharp edges and remove burrs
For design feature purposes, this standard takes precedence over documents referenced herein
Reference documents shall be of the issue in effect on date of invitation for bid

APPROVED 30 JUNE 1965 REVISED

P A. AIR FORCE - 69	TITLE	MILITARY STANDARD
Other Case	CAF-PROPELLER SHAFT THREAD, SHIPPING	MS 27417
ARMY - NO NAVY - WP		
PROCUREMENT SPECIFICATION NONE	SUPERSEDES AN 5012	SHEET 1 OF 1