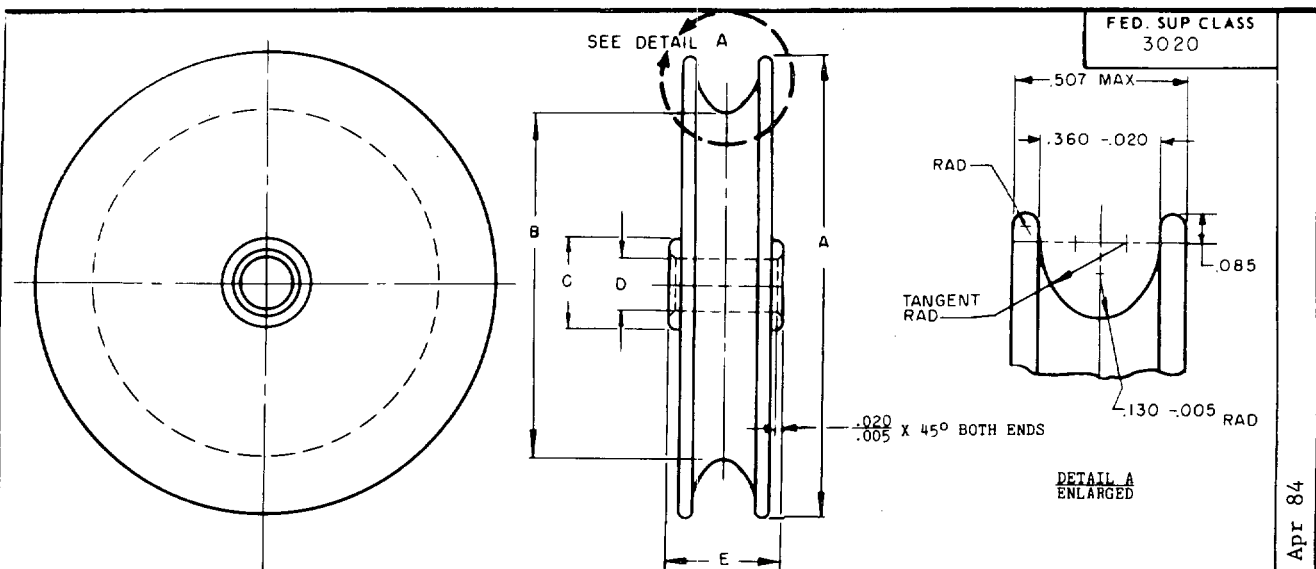


User Activities:  
Air Force - 99

Review Activities:  
Army - AV  
Navy - AS

This military standard is approved 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, when applicable.



HUB MAY BE ADDED TO PULLEY SHEAVE WHERE WIDTH OF BEARING OUTER RACE IS GREATER THAN MAXIMUM WIDTH OF PULLEY SHEAVE.

DASH NOS.		CABLE SIZE	A	B	C	D	E	PULLEY ASSY
NON METALLIC SHEAVE	METALLIC SHEAVE		OUTSIDE DIA ±.005	GROOVE DIA ±.005	SHOULDER I.R. DIA REF	BORE DIA -.0005	I.R. WIDTH -.005	WEIGHT MAX
	(E)		INCHES	INCHES	INCHES	INCHES	INCHES	LBS
(a)	A1	3/16,	2.625	2.000	.474	.3125	.625	.165
-2	A2	7/32,	4.125	3.500	.768	.5000	.750	.450
-3	A3	1/4,	5.625	5.000				.680

DASH NO.		PULLEY STRENGTH				AFMA BEARING (REF)
NONMETALLIC SHEAVE	METALLIC SHEAVE	ALLOWABLE LIMIT LOAD ON PULLEY	MAX LIMIT LOAD ON CABLE INDEPENDENT OF WRAP ANGLE			
		LBS	3/16 CAELE	7/32 CABLE	1/4 CABLE	
(a)	A1	2800	2620 LES	3060 LBS	3500 LBS	
-2	A2	4900				P8
-3	A3	7000				

NOTE: (a) THE -1 NONMETALLIC PULLEY REMOVED FROM THIS STANDARD AND THE APPLICABLE SPECIFICATION.

MATERIAL: METALLIC SHEAVES: ALUMINUM ALLOY, QQ-A-225/6, T351 OR AMS 4037, T351.  
NONMETALLIC SHEAVES: PHENOLIC, SEE PROCUREMENT SPECIFICATION.

FINISH: ALUMINUM - ANODIZE, MIL-A-8625, TYPE II.

EXAMPLES OF PART NUMBERS: MS20221-2 - NONMETALLIC SHEAVE AND FIXED BALL BEARING WITH CONTACT SEAL.  
MS20221A2 - METALLIC SHEAVE AND FIXED BALL BEARING WITH CONTACT SEAL.

DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS -.010.  
END FACES OF ALL BEARING HUBS MUST BE FLAT AND SQUARE WITH BORE WITHIN ±1°.

THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.  
REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.

P.A. Air Force - 11 Other Cust	TITLE PULLEY, GROOVE, HEAVY DUTY. CONTROL, AIRCRAFT	MILITARY STANDARD <b>MS20221</b>
ARMY - AV NAVY - AS	PROCUREMENT SPECIFICATION MIL-P-7034	SHEET 1 OF 1
SUPERSEDES: AN221		