

FED. SUP. CLASS
2990REVOLVING GRIP
(METHOD OF FASTENING
OPTIONAL)STEEL
 $3 - 1/2 \pm 1/8$ $5 \pm 1/8$ $1''R$
 $3/4$ DIA. HOT
ROLLED STEELCANCELED AFTER 13 Dec 82
NO SUPERSEDING STANDARD.

MS PART NUMBER	FIN	
MS-		8±1,
MS-		7±1/6

CHAMFER
BOTH ENDS $1/16 \times 45^\circ$
CHAMFER $5/16$ DIA x
 $1 1/4$ LG $\pm 1/8$
STEEL PIN $3/8 \pm 1/64$ BOTH ENDS OF PIN MUST BE UPSET SO AS TO
LOCK IT SECURELY TO SHAFT. 0.344 MAX
DIA AFTER UPSET. CYANIDE HARDEN PIN
AFTER ASSEMBLY TO CRANK. CASE TO HAVE
A MINIMUM DEPTH OF $.004$.NOTE: DRAWING SHOWS ONLY FUNCTIONAL INTERCHANGEABILITY AND NOT NECESSARILY TYPE OF
CONSTRUCTION.

ALL DIMENSIONS IN INCHES.

UNLESS OTHERWISE SPECIFIED TOLERANCE SHALL BE $\pm 1/64$ MATERIAL, FINISH AND PAINT SHALL BE IN ACCORDANCE WITH MANUFACTURER'S
STANDARD PRACTICE.THIS DOCUMENT HAS BEEN PROMULGATED BY THE DEPARTMENT OF DEFENSE AS THE MILITARY STANDARD TO LIMIT
THE SELECTION OF THE ITEM, PRODUCT, OR DESIGN COVERED HEREIN IN ENGINEERING, DESIGN AND PROCUREMENT.
THIS STANDARD SHALL BECOME EFFECTIVE NOT LATER THAN 90 DAYS AFTER THE LATEST DATE OF APPROVAL SHOWN.

P.A. CE	MILITARY STANDARD		MS51308	
Other Cust Docks USAF	CRANK, HAND; ENGINE STARTING, PIN TYPE FOR 160 CU. IN. AND BELOW, INDUSTRIAL ENGINES			
PROCUREMENT SPECIFICATION NONE	SUPERSEDES:		SHEET 1 OF 1	

DD FORM
1 OCT 52 672-1

* U.S. GOVERNMENT PRINTING OFFICE: 1983-605-034-438

NOTES: When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility, nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

This military standard is approved by the Department of Defense and is mandatory on all activities. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

APPROVED 21 MAY 1959 REVISED 13 December 1982