

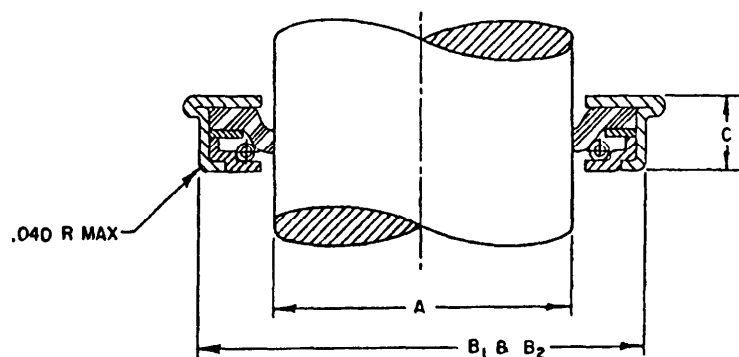
FED. SUP CLASS  
5330

USER ACTIVITIES: ARMY-HE AV

REVIEWER ACTIVITIES: ARMY-AR, DLA-IS

This military standard is approved for use by the US Army Tank-Automotive Command, Department of the Army, and is available for use by all Departments and Agencies of the Department of Defense. ANSC N/A

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.



FIRST DASH NO. (SIZE)	A SHAFT DIA (NOM)	B <sub>1</sub> SEAL O.D. (5)	B <sub>2</sub> HOUSING BORE (REF)	C WIDTH
11	1-7/16	2.535	2.531	5/8 ±.020
12	1-9/16	3.165	3.160	19/32 ±.020
13	2-1/4	3.443	3.438	43/64 ±.020
14	3	4.444	4.439	23/32 ±.020
15	3-1/8	4.567	4.562	1-13/64 ±.020
16	3-3/16	4.630	4.625	3/4 ±.020
17	4	5.755	5.750	7/8 ±.020

## REQUIREMENTS:

- THE ABOVE DESIGN IS FOR REFERENCE ONLY. OTHER DESIGNS WHICH MEET THE FUNCTIONAL REQUIREMENTS OF THIS TYPE OF SEAL ARE ACCEPTABLE.
- SEALING MEMBERS SHALL CONFORM TO ONE OF THE FOLLOWING CLASSES:
  - CLASS 1: POLYMER-IMPREGNATED LEATHER OR CHROME RETANNED LEATHER IN ACCORDANCE WITH KK-L-164 TANNAGE III. LEATHER SEALING MEMBERS SHALL BE MOLD-PROOFED IN ACCORDANCE WITH O-L-164 (FOR NORMAL OPERATING TEMPERATURE).
  - CLASS 2: OIL RESISTANT SYNTHETIC ELASTOMER (FOR NORMAL OPERATING TEMPERATURE).
  - CLASS 3: OIL RESISTANT ELASTOMER IN ACCORDANCE WITH HIGH AND LOW TEMPERATURE TESTS OF MIL-S-45005 (FOR EXTREME OPERATING TEMPERATURE).
- MARKING SHALL CONSIST OF THE MS NUMBER AND MANUFACTURER'S IDENTIFICATION IN ACCORDANCE WITH MIL-STD-139.
- THE PART NUMBER CONSISTS OF THE MS NUMBER AND 2 DASH NUMBERS.
  - FIRST DASH NUMBER INDICATES THE SIZE.
  - SECOND DASH NUMBER INDICATES THE CLASS.
  - EXAMPLE: MS51909-12-3 INDICATES SIZE NUMBER 12 WITH CLASS 3 SEALING MEMBER.
- DIMENSIONS ARE IN INCHES. TOLERANCES ARE ±.002 FOR SEAL O.D. UP TO 2.000; ±.003 - .002 FOR SEAL O.D. UP TO 3.000, AND ±.004, - .002 FOR SEAL O.D. UP TO 7.000.

## NOTES:

- THIS STANDARD IS NOT INTENDED TO LIMIT CONSTRUCTION TO FEATURES OTHER THAN AS SHOWN HEREON BY DIMENSIONS, NOTATIONS OR REFERENCED DOCUMENTS.
- FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.
- REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BIDS.
- THE USE OF RECYCLED MATERIAL WHICH MEET THE REQUIREMENTS OF THE APPLICABLE MATERIAL SPECIFICATION WITHOUT JEOPARDIZING THE INTENDED USE OF THE ITEM SHALL BE ENCOURAGED.

(E) ENTIRE STANDARD REVISED

P. A. ARMY-AT Other Cost	INTERNATIONAL INTEREST	TITLE SEAL, PLAIN ENCASED: SINGLE SEALING MEMBER, SPRING LOADED, SHOULDERED CASE	MILITARY STANDARD <b>MS51909</b>
PROCUREMENT SPECIFICATION MIL-S-45005	SUPERSEDES: CLHX7	SHEET 1	OF 2

FED. SUP CLASS  
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## INTERCHANGEABILITY TABLE

THE FOLLOWING MS DASH NUMBERS ARE CANCELLED AFTER 12 JUNE 1968.  
THE CANCELLED SEALS SHOULD BE USED FOR MAINTENANCE  
PURPOSES UNTIL EXISTING STOCK IS EXHAUSTED, USE ONLY THE  
SUPERSEDING SEAL DASH NUMBERS FOR NEW DESIGN AND PROCUREMENT.

CANCELLED PART NUMBER - CLASS - SIZE	SUPERSEDING PART NUMBER - SIZE - CLASS
MS51909 - 1 - 1 - 1 - 2 - 1 - 3 - 1 - 4 - 1 - 5 - 1 - 6 - 1 - 7	MS51909 - 11 - 1 - 12 - 1 - 13 - 1 - 14 - 1 - 15 - 1 - 16 - 1 - 17 - 1
MS51909 - 2 - 1 - 2 - 2 - 2 - 3 - 2 - 4 - 2 - 5 - 2 - 6 - 2 - 7	MS51909 - 11 - 2 - 12 - 2 - 13 - 2 - 14 - 2 - 15 - 2 - 16 - 2 - 17 - 2
MS51909 - 3 - 1 - 3 - 2 - 3 - 3 - 3 - 4 - 3 - 5 - 3 - 6 - 3 - 7	MS51909 - 11 - 3 - 12 - 3 - 13 - 3 - 14 - 3 - 15 - 3 - 16 - 3 - 17 - 3

(E) ENTIRE STANDARD REVISED

P. A. Other Cust	INTERNATIONAL INTEREST	TITLE SEAL, PLAIN ENCASED: SINGLE SEALING MEMBER, SPRING LOADED, SHOULDERED CASE	MILITARY STANDARD <b>MS51909</b>
PROCUREMENT SPECIFICATION MIL-S-45005	SUPERSEDES:	CLHX7	SHEET 2 OF 2

APPROVED 14 SEPTEMBER 1961 REVISED 27 OCT 86

USER ACTIVITIES: ARMY-HE AV

REVIEWER ACTIVITIES ARMY-AR, DLA-IS

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