

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.

Review activities:  
OSA-18

Design activities:

P.A. USAF-82  
Other Code

PROCUREMENT SPECIFICATION  
NONE

TITLE

SEAL, PLAIN, RUBBER, SYNTHETIC  
OIL RESISTANT, (-65 TO +275°F).  
MOLD IN GROOVE

SUPERSEDES:

MILITARY STANDARD

MS27195 (USAF)

SHEET 1 OF 1

DD FORM 672-1 (Coordinated)

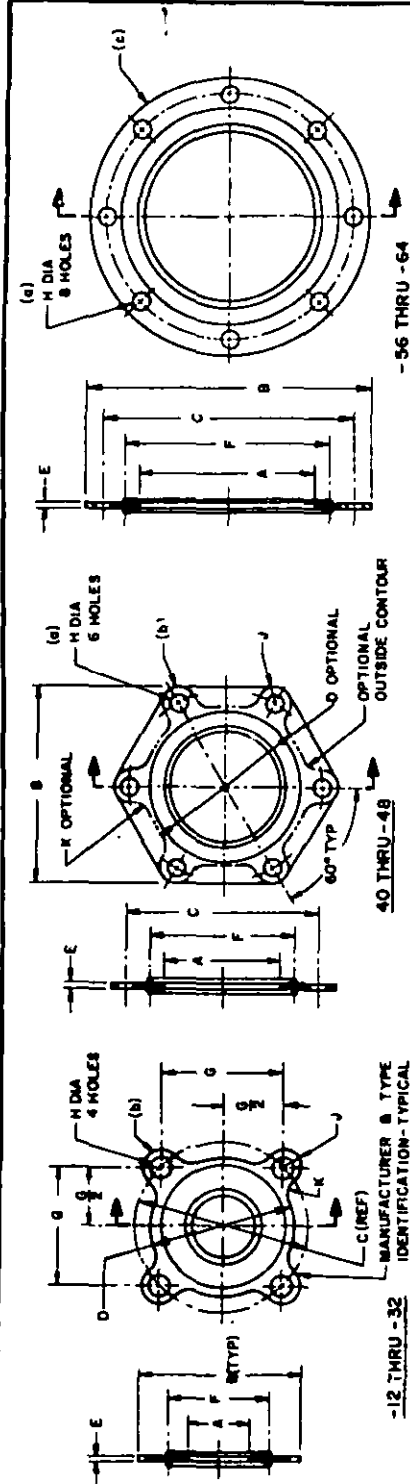
PREPARED BY THE JOINT ARMY AND NAVY STAFF

NOTES TO PRINTERS: REDUCE BORDER TO 4-27/32±9-3/4. PRINT LEFT BORDER LINE ONE INCH FROM LEFT EDGE OF 8-10-1/2 SHEET. PRINT BOTTOM BORDER LINE 3/8 INCH FROM BOTTOM EDGE OF 8-10-1/2 SHEET. SIGNATURES FORM NOT TO BE INCLUDED ON 8-10-1/2 SHEET.

DRAWN BY \_\_\_\_\_  
TYPED BY \_\_\_\_\_  
CHECKED BY \_\_\_\_\_

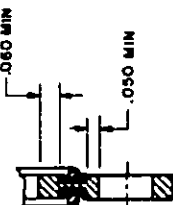
DATE

U.S. GOVERNMENT PRINTING OFFICE: 1962 O-488-078



MS PART NO.	NOMINAL TUBE O.D. REF	A DIA.	B DIA.	C DIA.	D DIA.	E DIA.	F DIA.	G DIA.	H DIA.	J RAD.	K RAD.
MS -12	3/4	.669	1.19/32	1.635	1 1/4	.080	61/64	1.156	.205	1/32	7/32
MS -12-16	3/4	.669	1.19/32	1.635	1 1/2	.080	1 13/64	1.312	.205	7/32	7/32
MS -16	1	.904	1 3/4	1.856	1 1/2	.080	1 13/64	1.312	.205	7/32	7/32
MS -16-24	1	.904	2 3/8	2.363	2 1/8	.080	1 47/64	1.812	.266	9/32	9/32
MS -20	1 1/4	1.138	2 3/16	2.363	2 1/8	.080	1 47/64	1.812	.266	9/32	9/32
MS -20-24	1 1/4	1.138	2 3/8	2.363	2 1/8	.080	1 47/64	1.812	.266	9/32	9/32
MS -24	1 1/2	1.372	2 3/8	2.363	2 1/8	.080	1 47/64	1.812	.266	9/32	9/32
MS -32	2	1.841	3	3.359	2 3/4	.080	2 13/32	2.375	.328	5/16	5/16
MS -40	2 1/2	2.341	3 1/2	3.812	3 1/4	.090	2 53/64		.328	3/8	3/8
MS -48	3	2.841	4 1/2	4.312	3 3/4	.090	3 5/16		.328	3/8	3/8
MS -56	3 1/2	3.341	5 9/16	4.875		.090	3 13/16		.328		
MS -64	4	3.841	6 1/8	5.438		.090	4 5/16		.328		

.080 MIN



ENLARGED SECTION  
TYPICAL FOR ALL SIZES

- (a) H DIA HOLES MUST BE EQUALLY SPACED ON C DIAMETER WITHIN .003.  
(b) COLOR MARKINGS: ON SIZES -12 THRU -48, OUTSIDE EDGE SHALL HAVE AT LEAST 3 NON-PERMANENT YELLOW COLORED MARKINGS MORE THAN 1/4 LONG TO INDICATE TYPE OF SEAL.  
(c) COLOR MARKINGS: ON SIZES -56 THRU -64, OUTSIDE EDGES SHALL HAVE NON-PERMANENT YELLOW COLORED MARKINGS EXTENDING AT LEAST THREE-QUARTERS OF THE WAY AROUND THE PART.  
MATERIAL: METAL RETAINER: ALUMINUM ALLOY, SPEC. QQ-A-250/11, TEMPER T6, ANODIZE TO MIL-A-8673, TYPE-II.  
RUBBER SEAL: RUBBER SPEC. MIL-R-7362, COMPOSITION-A, TYPE-11.  
REMOVE ALL EDGES AND SHARP EDGES.  
DIMENSIONS IN INCHES, UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS ±.003, FRACTIONS ±1/64, ANGLES ±1/2°.  
INDIVIDUALLY PACKAGE PER SPEC. MIL-P-116, METHOD 1C-1.  
PRODUCT SHALL BE PERMANENTLY IDENTIFIED AS TO MANUFACTURER AND TYPE.  
SEAL DESIGN MUST PROVIDE SUBSTANTIAL FILLING OF THE GROOVE WHEN ASSEMBLED.  
FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PRECEDENT DOCUMENTS REFERENCED HEREIN.  
REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INITIATIONS FOR BID.  
\*SUGGESTED DIMENSIONS FOR "D" AND "E" SIZES (-40 THRU -64).

FED. SUP. CLASS  
8330

APPROVED 20 JULY 1962 REVISED A 18 JUL 75