

INCH-POUND

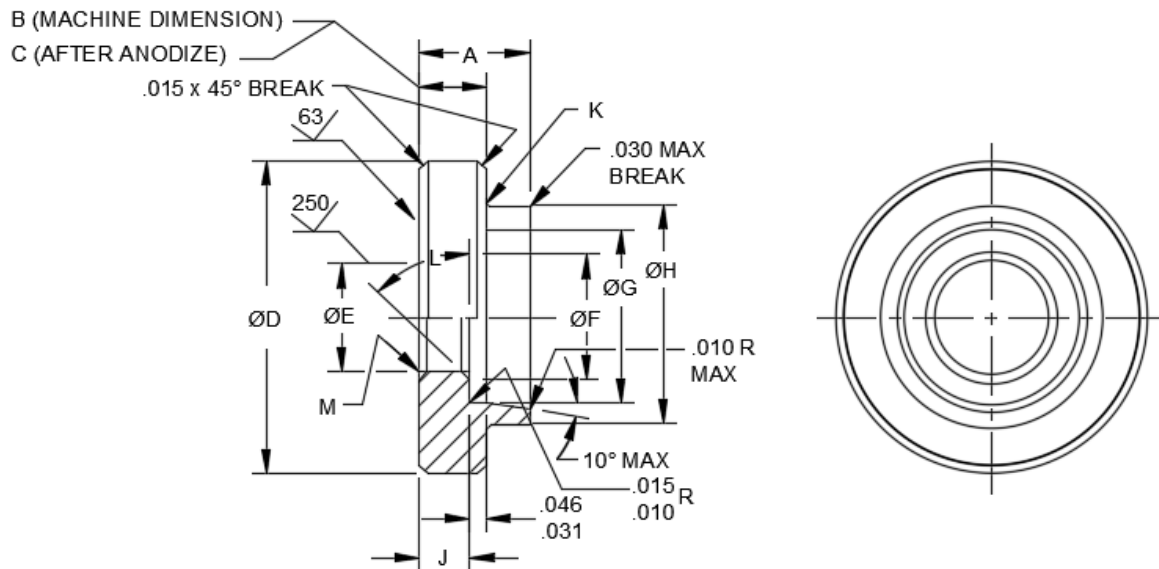
MS27237F
w/AMENDMENT 1
2 November 2017
SUPERSEDING
MS27237F
14 May 2007

DETAIL SPECIFICATION SHEET

SHOULDER, SWIVEL FLANGE, ADAPTER, HOSE TO TUBE, HYDRAULIC FUEL AND OIL LINES, 1/2 THROUGH 3 INCHES TUBING SIZES

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-5070.



Inches	mm
.010	0.25
.015	0.38
.030	0.76
.031	0.79
.046	1.02

FIGURE 1. Shoulder dimensions and configuration.

AMSC N/A

FSC 4730



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Dash number	A ±.015 (0.38 inches (mm)	B inches (mm)	C inches (mm)	D Dia +.000 -.005 (0.13) inches (mm)	E Dia .005 (0.13) inches (mm)	F Dia inches (mm)	G Dia inches (mm)	H Dia inches (mm)	J inches (mm)	K Rad ±.015 (0.38) inches (mm)	L	M inches (mm)	
-8	.271 (6.88)			.875 (22.23)	.365 (9.27)	.420 (10.67)	.504 (12.80) .501 (12.73)	.625 (15.88) .610 (15.49)	.118 (3.00) .113 (2.87)	.047 (1.19)	45°	.030 x 45° (0.76 x 45°) break	
-10				1.000 (25.40)	.490 (12.45)	.545 (13.84)	.629 (15.98) .626 (15.90)	.750 (19.05) .735 (18.67)					
-12		.156 (3.96) .153 (3.89)	.156 (3.96) .151 (3.84)	1.250 (31.75)	.615 (15.62)	.670	.754 (19.15) .751 (19.08)	.938 (23.83) .923 (23.44)		.062 (1.57)		34°	---
-16				1.500 (38.10)	.865 (21.97)	.920	1.004 (25.50) 1.001 (25.43)	1.188 (30.18) 1.173 (29.79)					---
-20				1.844 (46.84)	1.115 (28.32)	1.170	1.254 (31.85) 1.251 (31.78)	1.500 (38.10) 1.485 (37.72)					---
-24				.312 (7.92)	.188 (4.78) .185 (4.70)	.188 (4.78) .183 (4.65)	2.125 (53.98)	1.329 (33.76)			1.420		1.504 (38.20) 1.501 (38.13)
-32	2.750 (69.85)	1.829 (46.46)	1.920				2.004 (50.90) 2.001 (50.83)	2.375 (60.33) 2.360 (59.94)	---				
-40	3.281 (83.34)	2.180 (55.37)	2.295				2.379 (60.43) 2.376 (60.35)	2.875 (73.03) 2.860 (72.64)	---				
-48	3.781 (96.04)	2.805 (71.25)	2.920				3.004 (76.30) 3.001 (76.23)	3.375 (85.73) 3.360 (85.34)	---				

FIGURE 1. Shoulder dimensions and configuration - Continued.

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NOTES:

1. Dimensions are in inches.
2. Metric equivalents are for information only,
3. Unless otherwise specified, tolerances are as follows: angles $\pm 5^\circ$; decimals $\pm .005$ inch (0.13 mm).
4. Break or radius all corners .010/.005 inch (max/min) (0.25/0.13 mm (max/min)).
5. All diameters shall be concentric within .010 inch (0.25 mm) total indicator reading. Exempt 10° chamfer is 10 degrees max.
6. Unless otherwise specified, maximum surface roughness shall be 125 μ in R_a in accordance with ASME B46.1.
7. Break all sharp edges and remove all burrs and slivers.

FIGURE 1. Shoulder dimensions and configuration - Continued.

REQUIREMENTS:

Dimensions and configurations: The design, construction, and physical dimensions shall be in accordance with MIL-DTL-5070 and figure 1 in case of conflict between this drawing and MIL-DTL-5070, this drawing shall govern.

Intended use. This part is a component of MS27227 and MS27229. This item shall not be procured for stocking purposes.

Material: Aluminum shall be in accordance with MIL-DTL-5070.

Finish: Finish shall be in accordance with MIL-DTL-5070.

Color identification: Color identification shall be in accordance with MIL-DTL-5070.

Part or Identifying Number (PIN) example:

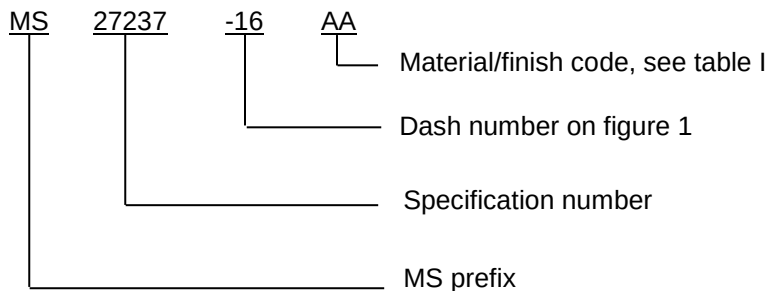


TABLE I. Code for material and finish.

Code	Dash size	Material/finish
AA	-8 through -48	Aluminum – anodic coating

Amendment notations. The margins of this specification are marked with vertical lines to indicate modifications generated by this amendment. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations.

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Referenced documents. In addition to MIL-DTL-5070, this document references the following:

MS27227 ASME B46.1
MS27229

CONCLUDING MATERIAL

Custodians:

Army - AT
Navy - AS
Air Force - 99
DLA - CC

Preparing activity:
DLA - CC

(Project 4730-2017-096)

Review activities:

Army - AV
Navy - MC, SA
Air Force - 11, 71

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil>.