

INCH-POUND

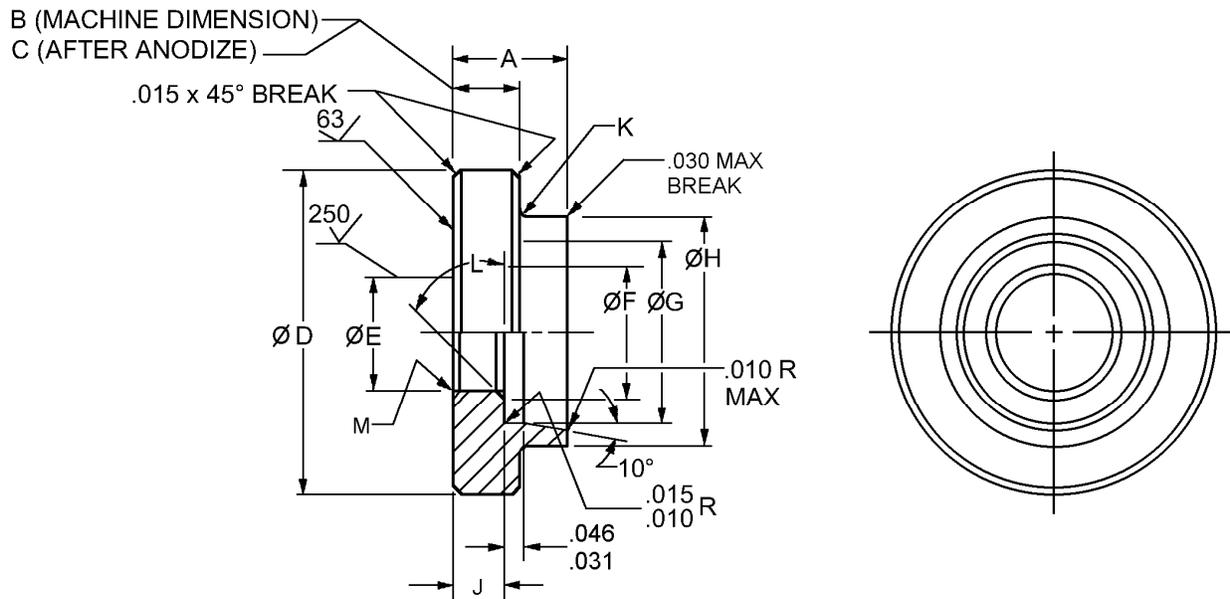
MS27237F
 14 May 2007
 SUPERSEDING
 MS27237E
 6 April 2001

DETAIL SPECIFICATION SHEET

SHOULDER, SWIVEL FLANGE, ADAPTER,
 HOSE TO TUBE, HYDRAULIC FUEL AND OIL LINES,
 1/2 THROUGH 3 IN. 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.

MS27237F

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)		.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)			45°	---		
-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)			2.125 (53.98)	1.329 (33.76)	1.420	1.504 (38.20) 1.501 (38.13)	1.750 (44.45) 1.735 (44.07)	.065 (1.65) .060 (1.52)	.062 (1.57)		---		
-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				.188 (4.78) .185 (4.70)	.188 (4.78) .183 (4.65)	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.

MS27237F

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 ± 0.005 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.
6. Unless otherwise specified, maximum surface roughness shall be $125 \mu\text{in } R_a$ 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:

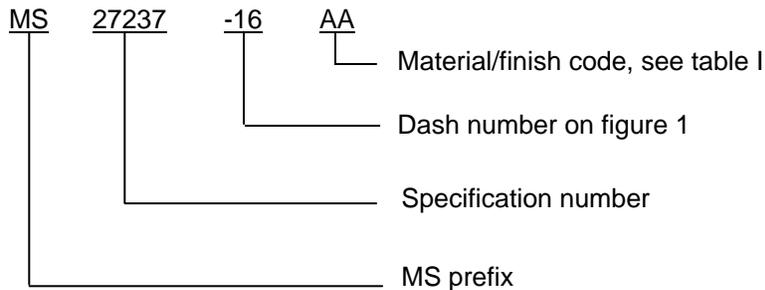


TABLE I. Code for material and finish.

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

Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue, due to the extent of the changes.

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

MS27227 ASME B46.1
MS27229

MS27237F

CONCLUDING MATERIAL

Custodians:

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

Preparing activity:

DLA - CC

(Project 4730-2005-055)

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 <http://assist.daps.dla.mil>.