

INCH-POUND

MS35758D
w/AMENDMENT 1
11/19/2015
SUPERSEDING
MS35758D
30 August 2012

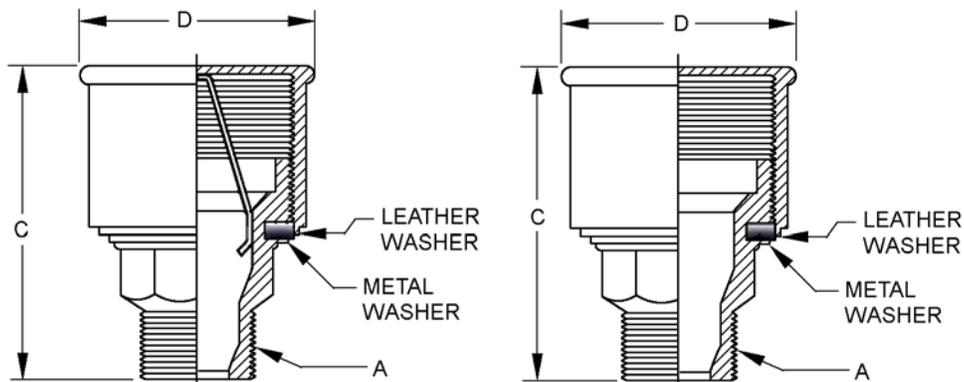
DETAIL SPECIFICATION SHEET

CUPS, GREASE, MANUAL FEED

Inactive for new design after 5 April 1999.

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

The requirements for this product described herein shall consist of this specification sheet and MIL-C-1213.



OPTIONAL DESIGN (WITHOUT RATCHET)

Dash numbers			Grease capacity ounce	A Thread	B max OD inch (mm)	C max Overall length inch (mm)
Steel		Brass				
Uncoated	Plated	Uncoated				
-1	-4	-7	.25	.125 -27 NPT	1.125 (28.58)	1.625 (41.28)
-2	-5	-8	.50	.125 -27 NPT	1.250 (31.75)	1.875 (47.63)
-3	-6	-9	1.0	.250 -18 NPT	1.875 (47.63)	2.500 (63.50)
-----	-----	-10	2.0	.375 -18 NPT	2.250 (57.15)	2.875 (73.03)
-----	-----	-11	3.5	.500 -14 NPT	2.750 (69.85)	3.250 (82.55)

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, the tolerance for 3 place decimals is $\pm .005$ inch (0.13 mm).
4. Threads shall be in accordance with FED-STD-H28/7, FED-STD-H28/8, ASME B1.20.1 and ASME B1.20.3.
5. The illustration is for identification only and is not intended to restrict design or shapes not dimensioned.

FIGURE 1. Cups, grease, manual feed.



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REQUIREMENTS:

Manual feed grease cups shall be specified on figure 1 and tables I and II.

Materials shall be, specified in table I.

TABLE I. Materials.

Code	Material	Form	Specification	Alloy
B	B Brass	Bars	ASTM B16/B16M ASTM B36/B36M ASTM B121/B121M ASTM B124/B124M	260, 268, or 360
		Castings	ASTM B61 ASTM B62 ASTM B148 ASTM B176 ASTM B271/B271M ASTM B369 ASTM B427 ASTM B505/B505M ASTM B584 ASTM B763/B763M ASTM B770 ASTM B806 SAE AMS4842 SAE AMS4845 SAE AMS4855 SAE AMS4860 SAE AMS4862 SAE AMS4890	As applicable
C	Low carbon steel	Bars and forgings	SAE-AIR4127	In accordance with, any standard composition.
S	Stainless Steel (CRES)	N/A	SAE AMS5659, SAE AMS5862 or alloy 15-5 PH, ASTM A564/A564M type XM-12 or UNS S15500 or SAE AMS5665	As applicable

Spring materials.

Spring for steel cup shall be steel in accordance with ASTM A229/A229M or ASTM A227/A227M, class 2.

Spring for brass cup shall be brass in accordance with ASTM B159/B159M.

Leather washer.

The leather shall be made from cattle hides. The leather shall be tanned with chromium salts (mineral-tanned) without the use of vegetable tanning materials. No degreasing shall be employed after the normal tanning process.

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Leather shall be treated with a fungicidal agent in accordance with MIL-DTL-32068 to render the material fungus-resistant.

Plating finish designators for dash -4, -5, and -6 only shall be in accordance with table II.

TABLE II. Plating finish identification codes. 1/

PIN code plating finish	Material	Plating finish
C	Steel	Cadmium plating in accordance with SAE AMS-C-81562, type II, class 3 or SAE-AMS-QQ-P-416, type II, class 2, <u>2/</u>
H	Steel	Zinc phosphate finish in accordance with MIL-DTL-16232 type Z, class 2. <u>3/</u>
J	Steel	Zinc plating in accordance with ASTM B633; type II or III, Fe/Zn 5, or ASTM B695, type II, class 5
N	Steel	Zinc plating in accordance with ASTM B633, type VI, Fe/Zn 5,
P	Steel	Zinc/Aluminum in accordance with ASTM F1136/F1136M, grade 3, NC.
V	Steel	Zinc-nickel in accordance with SAE AMS2417, type 1
S	CRES	Passivate in accordance with SAE AMS2700, type 6 or 7. <u>4/</u>

1/ Finished product shall show no red corrosion products after 96 hours of salt spray testing in accordance with ASTM B117. For PIN code "H" the salt spray requirement is 72 hours.

2/ Hydrogen embrittlement test need not be run.

3/ Hexavalent chromium free.

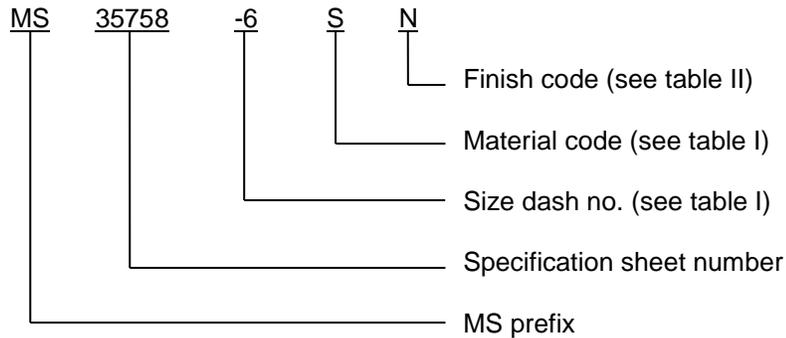
4/ If finish code is the same as material code, then omit finish code.

Trivalent wrenchability:

This term is used to evaluate the ability of the finish to withstand abrasion from excessive amount of wrenching. Where wrenchability is poor, the need to touch-up the finish is needed. Brush plating of hard chromium by electrodeposition shall be in accordance with SAE AMS2451/5 and brush plating of medium-hardness, low stress nickel by electrodeposition shall be in accordance with SAE AMS2451/9.

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Part or Identifying Number (PIN): (The PIN covers the complete item with nuts and sleeves.)



Guidance on the use of Alternative Plating that is less hazardous or nonhazardous on environment. This specification provides for a number of alternative plating materials via the PIN. Users should select the PIN with the least hazardous material that meets the form, fit and function requirements of their application.

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.

Referenced documents. In addition to MIL-C-1213, this document references the following:

FED-STD-H28/7	ASTM B148	SAE-AMS-QQ-P-416
FED-STD-H28/8	ASTM B159/B159M	SAE AMS2417
MIL-DTL-16232	ASTM B176	SAE AMS2451/5
MIL-DTL-32068	ASTM B271/B271M	SAE AMS2451/9
ASME B1.20.1	ASTM B369	SAE AMS2700
ASME B1.20.3	ASTM B427	SAE AMS4842
ASTM A227/A227M	ASTM B505/B505M	SAE AMS4845
ASTM A229/A229M	ASTM B584	SAE AMS4855
ASTM A564/A564M	ASTM B633	SAE AMS4860
ASTM B16/B16M	ASTM B695	SAE AMS4862
ASTM B36/B36M	ASTM B763/B763M	SAE AMS4890
ASTM B61	ASTM B770	SAE AMS5659
ASTM B62	ASTM B806	SAE AMS5862
ASTM B117	ASTM F1136/F1136M	SAE AMS5665
ASTM B121/B121M	SAE AIR4127	
ASTM B124/B124M	SAE AMS-C-81562	

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CONCLUDING MATERIAL

Custodians:

Army - AR
Navy - SH
Air Force - 99
DLA - CC

Preparing activity:
DLA-CC

(Project 4730-2015-073)

Review activities:

Army - AT
Navy – AS, MC
Air Force - 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>.