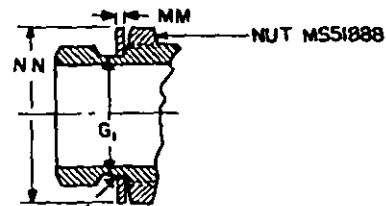
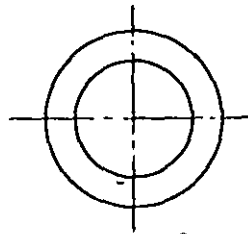


FED. SUP CLASS  
4730REVIEWER: CS, GL, ME  
USER: AT, AV, EL, MC, OS, VVWASHER CLINCHED TO FITTING  
WITH TIGHT SLIP FIT-0.0005  
MAX CLEARANCE TO AN  
INTERFERENCE FIT

TUBE O.D. NOM	G <sub>1</sub> DIA +0.002 -0.003	NN ±.003	NN ±0.015
1/8	0.250	.030	0.504
3/16	0.313	.030	0.575
1/4	0.364	.035	0.650
5/16	0.427	.035	0.722
3/8	0.482	.035	0.794
1/2	0.660	.041	1.010
5/8	0.773	.050	1.155
3/4	0.945	.050	1.444
7/8	1.070	.050	1.589
1	1.195	.050	1.732
1-1/4	1.507	.050	2.165
1-1/2	1.756	.050	2.454
2	2.381	.050	3.160

## NOTES:

- MATERIAL:** Steel, carbon in accordance with procurement specification.  
Steel, corrosion-resisting in accordance with procurement specification.
- PROTECTIVE COATING:** Cadmium plated in accordance with procurement specification.  
Zinc coated in accordance with procurement specification.  
Phosphate coating in accordance with procurement specification.  
Passivation treatment in accordance with procurement specification.
- DIMENSIONS AND TOLERANCES:** Dimensions and tolerances not shown shall be in accordance with the SAE Standard for Hydraulic Tube Fitting (SAE J514).
- This item is shown on MS51527, MS51528, MS51529, MS51530, MS51839, MS51841 and MS51842.

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.

THIS IS A DESIGN STANDARD AND SHALL NOT BE USED AS A PART NUMBER

P.A. VC Cater Case 82	TITLE WASHER, BACK-UP, 37° FLARED AND FLARELESS TYPE, HYDRAULIC	MILITARY STANDARD <b>MS51889</b>
PROCUREMENT SPECIFICATION MIL-F-18866	SUPERSEDES:	SHEET 1 OF 1

DD FORM 672-1 (Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

APPROVED 22 NOV 1974 REVISED