

MIL-C-601G  
Amendment-1  
31 August 1972

## MILITARY SPECIFICATION

### CYLINDERS, CARBON DIOXIDE FILLED, TECHNICAL

This amendment forms a part of Military Specification MIL-C-601G dated 30 June 1971, and is approved for use by all Departments and Agencies of the Department of Defense.

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FIGURE 2: Delete and substitute new FIGURE 2 included herein.

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3.6 NOTE: Delete and substitute:

"NOTE: The indicated minimum gross weight shall be the weight of the empty cylinder (rounded off to the next lower 0.5 gram) plus the minimum weight of the gas charge."

3.7.2 Leakage: Delete and substitute the paragraphs listed below:

"3.7.2 Leakage.

3.7.2.1 At atmospheric pressure. The carbon dioxide filled cylinders, when inspected as specified in 4.6.4.1 shall show no evidence of leakage.

3.7.2.2 Under mercury vacuum. The carbon dioxide filled cylinders, when inspected as specified in 4.6.4.2 shall show no evidence of leakage."

4.4 Under Quality conformance inspection: Delete "Leakage" and substitute:

"Leakage (under atmospheric pressure) -  
Leakage (under mercury vacuum) -"

Table I. Delete "Leakage" and all information pertaining thereto, and substitute, in the following manner:

INSPECTION	PARAGRAPH		SAMPLE SIZE	ACCEPTANCE CRITERIA <u>1</u> /
	REQUIREMENT	METHOD		
Leakage (under atmospheric pressure)	3.7.2.1	4.6.4.1	Every carbon dioxide filled cylinder	Reject all defective units.
Leakage (under mercury vacuum)	3.7.2.2	4.6.4.2	Inspection Level II	An Acceptable Quality Level of 1.0 defects per 100 units.

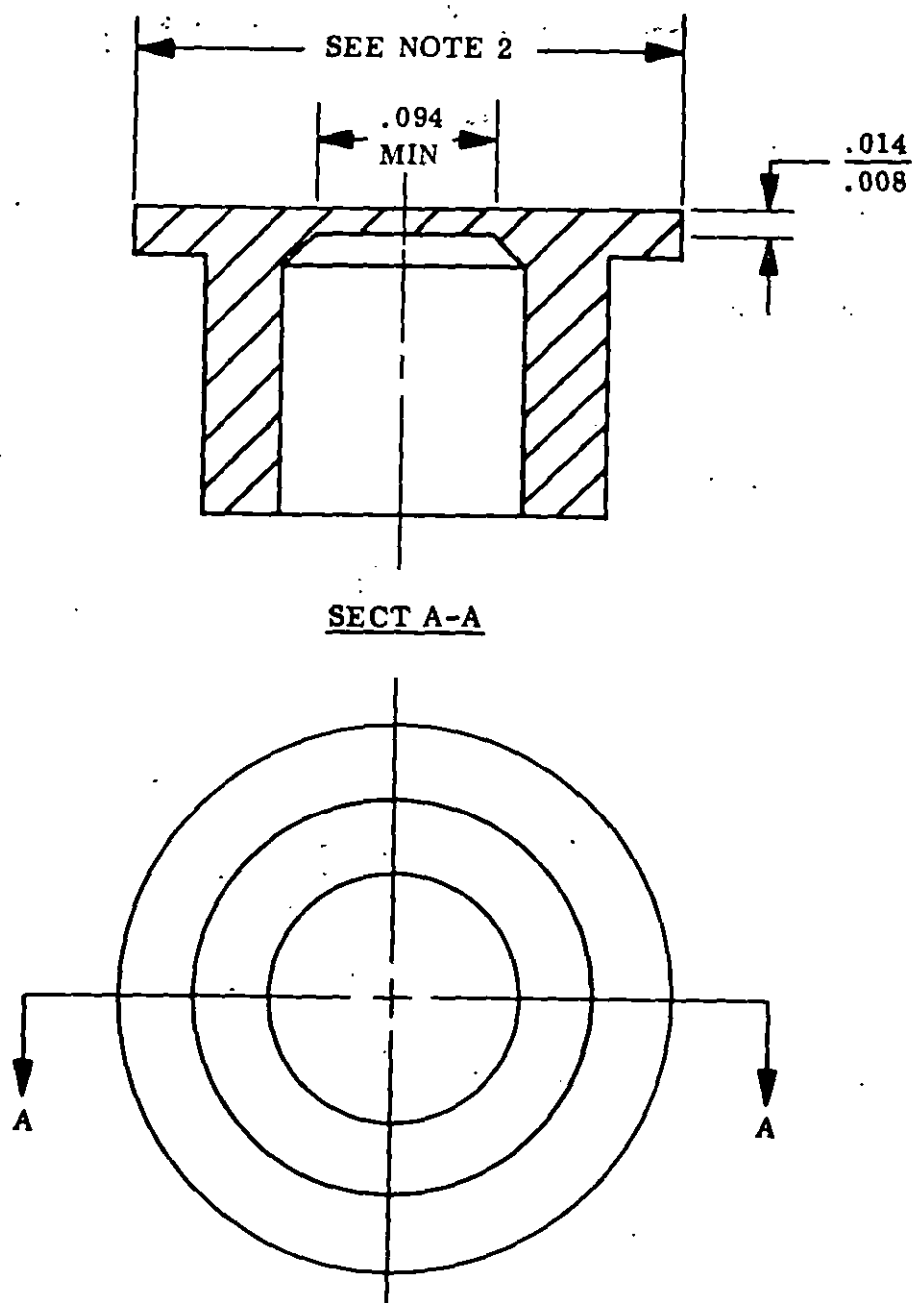
Table III. Under Defects column, delete "3.3.3", and on fourth line, delete "and 2".

4.6.4 Leakage. Delete in its entirety and substitute the following:

"4.6.4 Leakage.

4.6.4.1 Under atmospheric pressure. The carbon dioxide filled cylinders in an upright position, shall be immersed in a water solution of one percent of a 25 percent Aerosol OT clear. The cylinder shall be immersed to a depth so that the uppermost portion of the cylinder is a minimum of one inch below the surface of the solution. Any evidence of bubbles from the cylinder shall be considered as leakage.

4.6.4.2 Under mercury vacuum. The carbon dioxide filled cylinder shall be inspected as specified in 4.6.4.1, except that a 20 inch mercury vacuum shall be maintained above the surface of the solution for a minimum of 2 minutes. Any evidence of bubbles from the cylinder shall be considered as leakage.



## NOTES:

1. DIMENSIONS IN INCHES
2. OUTSIDE DIAMETER OF FLANGE OPTIONAL, PROVIDING THE REQUIREMENTS OF 3.3.3 ARE MET.

FIGURE 2. SEALING CAP

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Custodians:

Army - ME  
Navy - AS  
Air Force - 84

Preparing Activity:

Navy - AS  
(Project No. 4220-0200)

Review Interest:

Army - AV, MD  
Air Force - 82, 11  
Navy - SH, MS

User Interest:

Navy - MC