

RR-C-901C  
AMENDMENT 1  
1 April 1993

FEDERAL SPECIFICATION

CYLINDERS, COMPRESSED GAS  
HIGH PRESSURE, STEEL DOT 3AA  
AND ALUMINUM APPLICATION,  
GENERAL SPECIFICATION FOR

This amendment forms a part of RR-C-901, dated 15 January 1981, and is approved for use by all Departments and Agencies of the Department of Defense

PAGE 1

1.1 Delete and substitute

"1.1 Scope This specification covers new cylinders in accordance with the Department of Transportation Specification 3AA steel fabrication, and when specified for application of approved DOT 3AL for high pressure aluminum fabrication "

PAGE 2

Publications Delete and substitute

\*AFM 71-4

- Preparing Hazardous Materials  
for Military Air Shipment "

PAGE 3

Department of Transportation (DOT) Delete and substitute.

"Title 49, Code of Federal Regulations, Transportation Parts 100-177, Parts 178-199."

3.1 Delete and substitute

"3.1 Description Steel cylinders shall conform to DOT Code of Federal Regulations, Title 49, Specification DOT 3AA, from 4130X steel and shall be as specified in the applicable specification sheet as specified herein. Aluminum cylinders shall conform to DOT Code of Federal Regulation, Title 49, Specification DOT 3AL, with dimensions as specified by the procuring agency (see 6.2), and as specified herein."

AMSC N/A

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FSC 8120

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PAGE 4

3.2.2 Delete and substitute

"3.2.2 Nonshatterability 3AA, 4130X steel cylinder design over 4 inches (101.6mm) in diameter, with wall stress (at the minimum specified test pressure) under 70,000 psig (482650 kPa), and 3AA, 4130X steel cylinder design under 4 inches (101.6mm) in diameter, with wall stress (at the minimum specified test pressure) under 60,000 psig (413700 kPa) shall be acceptable as nonshatterable and shall be permanently marked "NONSHAT" 3AA, 4130X steel cylinder designs under 4 inches (101.6mm) in diameter, with wall stress (at the minimum specified test pressure) over 60,000 psig (413700 kPa) and aluminum plus all other steel cylinders shall be subjected to and pass the gunfire test specified in 4.4.2.3 to become acceptable as nonshatterable (see 6.5) "

3.2.3 line 12 Delete "aluminum" and substitute "aluminum/forged brass"

PAGE 5

3.6 Delete and substitute

"3.6 Cylinder identification Unless otherwise specified herein, marking shall not be less than 1/4 inch (6.35mm) high. On cylinders 6 inches (152.4mm) in outside diameter or larger, the markings shall be 3/8 inch (9.525mm) high "

3.6.1 Delete and substitute

"3.6.1 Standard Markings Standard markings as required by the DOT Specifications 3AA or 3AL shall be plainly and permanently marked by stamping on the shoulder or neck of each cylinder starting near the neck as follows

- (a) "DOT 3AA or DOT 3AL" followed by the service pressure in "psi" EXAMPLE DOT 3AA2265 or DOT 3AA2216.
- (b) Serial number (see 6.3) followed by the manufacturer's DOT registered symbol
- (c) "US GOVT" Government ownership symbol
- (d) Date of testing and the independent inspector's official mark. This shall be applied as the month and year of manufacture, separated by the inspector's official mark
- (e) Tare weight markings for liquefied gas shall be in a position other than in sequence with the serial number or test date and as specified in 3.4. Tare weight shall include cylinder and valve, but without cylinder valve protection cap
- (f) Cylinder shall be marked for impact resistance with (-50°C) as applicable
- (g) Cylinders made by spinning shall be marked "SPUN" as applicable
- (h) Cylinders shall be marked "NONSHAT" "

IP 001  
AUGUST 1981

Custodians

Army - ME

Navy - SH

Air Force - 68

Preparing activity

Air Force - 68

Review activities

Army - MI, EA

Navy - AS, OS, MS

(Project 8120-1024)

User activities

Navy - YD, MC

DLA - GS, PS