

RR-C 910/1
 December 11, 1980
 SUPERSEDING
 MS39228
 February 21, 1973

FEDERAL SPECIFICATION SHEET

CYLINDERS, COMPRESSED GAS:

DOT SPECIFICATIONS 4BA, 4BW, and 4F

FOR REFRIGERANTS, FIRE-EXTINGUISHING AGENTS

AND STERILIZATION GASES

This specification was approved by the Commissioner, Federal Supply Service, General Services Administration, for the use of all Federal agencies.

The complete requirements for procuring the cylinder described herein shall consist of this document and the latest issue of the specification RR-C-910.

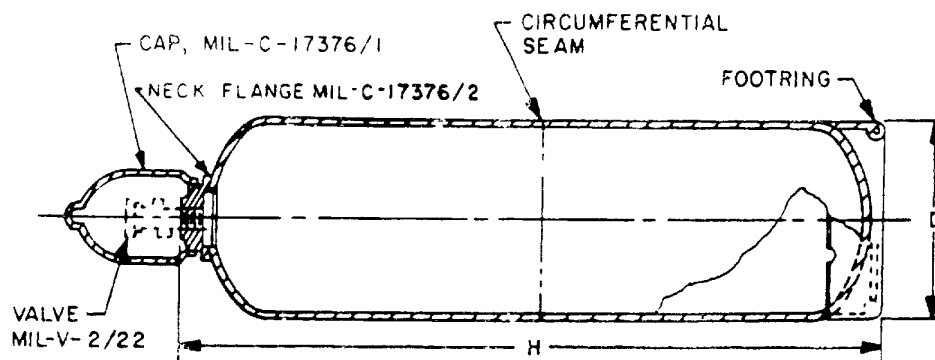


FIGURE 1.

X-3201A

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TABLE I

Classification Number	Water Capacity lbs	Service pressure	Valve MIL-V-2	Usage	Notes	Dimensions inches		May Tare wt. 165
						D	H	
C910/1-1	8.5	240	V22-621	General purpose	1	6-3/4	11	16
C910/1-2	21.5	240	V22-621	General purpose	1	6-3/4	21	20
C910/1-3	42.0	240	V22-621	General purpose	1	8-3/16	27	30
C910/1-4	122.0	240	V22-621	General purpose	1,6	12-3/16	36	60
C910/1-5	8.5	300	V22-621	R-502	2	6-3/4	11	16
C910/1-6	21.5	300	V22-621	R-902	2	6-3/4	21	20
C910/1-7	42.0	300	V22-621	R-502	2	8-3/16	27	30
C910/1-8	122.0	300	V22-621	R-502	2	12-3/16	36	60
C910/1-9	122.0	300	V22-621	Dichlorotetra Fluoroethane R-114	3	10-3/16	49	55
C910/1-10	122.0	400	V22-621	Bromotrifluoromethane		12-3/16	36	68
C910/1-11	8.5	240	V22-621	Methyl chloride	4	6-3/4	11	16
C910/1-12	21.5	240	V22-621	Methyl chloride	4	6-3/4	21	20
C910/1-13	42.0	240	V22-621	Methyl chloride	4	8-3/16	27	30
C910/1-14	122.0	240	V22-621	Methyl chloride	4	12-3/16	36	60
C910/1-15	21.5	240	V24-511	Ethylene oxide	4,5	7	16	20
C910/1-16	8.5	240	V50-621	Methyl bromide	4	6-3/4	11	16
C910/1-17	21.5	240	V50-621	Methyl bromide	4	6-3/4	21	20
C910/1-18	42.0	240	V50-621	Methyl bromide	4	8-3/16	27	30
C910/1-19	122.0	240	V50-621	Methyl bromide	4	12-3/16	36	60

Notes:

1. General purpose cylinders: these cylinders shall be used for the following refrigerants; R-11 trichlorofluoromethane, R-12 dichlorodifluoromethane, R-22 Chlorodifluoromethane, R-113 trichlorotrifluoroethane, R-114 dichlorotetrafluoroethane, and R-500 an azeotropic mixture of R-12 dichlorodifluoromethane and R-152 difluoroethane.
2. For refrigerants with a vapor pressure of over 300 psi at 130° F and below 375 psi at 130° F such as R-502 and azeotropic mixture of R-22 chlorodifluoromethane and R-115 chloropentafluoroethane.
3. Exclusively for Hawk missile applications.
4. Cylinders shall only be made of steel, DOT specifications 4BA and 4BW. Aluminum cylinders not allowed.
5. Brazing of cylinder not allowed. Copper and copper bearing metals not allowed.
6. For Medical Sterilization gases.
7. Dimensional tolerances; diameter \pm 1/4 inch height \pm 1 inch.
8. The use of cylinders already in the supply system with service pressures of 225 psi shall be restricted to the storage, transportation and distribution of

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... cylinders R12, R113, R114 and R500 and are acceptable in lieu of standard service pressure, 200 psi. Also cylinders in the system with marked service pressures of 300 psi shall be acceptable by users, where service pressure requirements are 300 psi or less.

9. Classification number. The classification numbers are made up from the letter, number, and slash number of this specification sheet, plus a dash number from table I (EX. C910/1-3).

10. Maximum capacity for each cylinder depends upon the gas service, the cylinder water capacity, and the filling density for the specific gas as specified in the CFR Title 49.

REQUIREMENTS:

1. Footrings. Footrings shall be attached by welding and shall have a minimum of two vent holes and a minimum of two drain holes equally spaced.
2. Unit shell construction. When a concave bottom head is supplied, the resulting skirt shall be acceptable in lieu of fabricated footing.

Intended use. The compressed gas cylinders are intended for low pressure use in the storage, transportation and distribution of refrigerants, fire-extinguisher agent and sterilization gases. High pressure types are contained in DOT 3AA cylinders.

MILITARY INTERESTS:

Custodians:

Army - ME
Navy - SH
Air Force - 68

Review activities:

Army - CE
Air Force - 11
DLA - GS

User activities:

Navy - YD, MC, MS

CIVIL AGENCY COORDINATING ACTIVITIES:

HEW - FDA
GSA - FSS
VA - DMS
NASA - NS

Preparing activity:

Army - ME

Project 8120-0372

Orders for this publication are to be placed with General Services Administration, acting as an agent for the Superintendent of Documents. See section 2 of this specification to obtain extra copies and other documents referenced herein.

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DOCUMENT IDENTIFIER AND TITLE RR-C-910/1 Cylinders, Compressed Gas DOT Specifications 4BA, 4BW, & 4E For Refrigerants, Fire-Extinguishing Agents		
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