

A-A-50456
January 15, 1982

COMMERCIAL ITEM DESCRIPTION

VALVES, RADIATOR, HEATING,
PACKED BONNET, 100 AND 150 PSIG

The General Services Administration has authorized the use of this Commercial Item Description in preference to Type I, Style A, Classes 100 and 150, Patterns 1 and 2, and Service 1 of Federal Specification WW-V-160.

This Commercial Item Description covers the requirements for Valves, Radiator, Heating (packed bonnet). Stuffing box with adjustable packing unit for classes 100 and 150 psig of the straight way and angle globe pattern for steam service with female threaded inlet and male threaded outlet connection with union nut and male threaded tailpiece and hand wheel operator.

Salient characteristics: Valves shall be in accordance with table below:

NSN	Size	type	style	class	pattern	service
4520-00-222-3480	1/2 NPT	"I"	"A"	Rated	1	steam
4520-00-222-3482		Packed Bonnet	Stuffing box w/ adjustable nut	100 psig (working)	straight way globe	
	1 NPT					
4520-00-277-7504	1/2 NPT			150 psig	straight way globe	steam
4520-00-222-3475	1/2 NPT			100 psig (working)	2 angle globe	steam
4520-00-222-3476	3/4 NPT					
4520-00-222-3477	1 NPT					
4520-00-222-3479	1-1/2 NPT					
4520-00-224-0693	1/2 NPT			150 psig (working)	2 angle globe	steam

Valves shall be designed for use in steam heating systems at the working pressure and coincident steam saturation temperature applicable to the class specified herein.

Component characteristics:

Body and bonnet shall be cast or forged of brass or bronze alloys conforming to ASTM B61 or B62. Body castings shall withstand a test pressure equal to twice the rated working pressure. Stuffing boxes shall be brass or bronze alloy and shall be of the gland-following type or packing nut type at the option of the contractor. Packing shall be of the manufacturer's standard. Stems shall be brass or bronze alloy and of standard length in accordance with contractor's standard practice. Disks shall be of the metallic type or of non-metallic composition. Composition disk shall be suitable for the temperatures and pressures specified herein. Composition disks shall be

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supported in brass or bronze disk holder and ready replaceable. Threaded inlet and outlet connections shall have tapered pipe threads conforming to ASME B2.1. Union nuts and tailpieces shall be ASTM B61 or B62 with threads and facings in accordance with contractor's standard. Handwheel suitably attached to stem shall be of molded phenolic or an equivalent plastic or composition material.

Marking: Valves shall be marked in accordance with MSS SP-25.

Certification. The contractor shall certify that the product offered meets the salient characteristics of this description, and that the product conforms to the producers own drawings, specifications, standards and quality assurance practices and is the same product sold in the commercial market place. The Government reserves the right to require proof of such conformance prior to first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

Recovered materials. The manufacturer Shall utilize recycled and reclaimed materials to the maximum extent practicable.

Packaging, packing, and marking. Unless otherwise specified in the contract or order, the packaging and packing shall be in accordance with normal commercial practice and shall assure acceptance by common carrier and provide product protection against loss and damage during multiple shipments, handling, and storage. The shipping container shall be in compliance with the National Motor Freight Classification and Uniform Freight Classification. Marking shall be as specified in the contract or order.

NOTES:

ASME Standards are available from American Society of Mechanical Engineers, Order Department, P.O. Box 3199, Grand Central Station, New York, NY 10163.

ASTM Standards are available from the American Society for Testing Materials, 1916 Race St., Philadelphia, PA 19103.

MSS Standards are available from the Manufacturers Standardization Society of the Valve and Fittings Industry, 1815 North Fort Myer Drive, Arlington, VA 22209.

MILITARY INTERESTS:

Custodians

Army - ME

Navy - YD

Air Force - 99

Review Activities

DCSC-SSD

User Activities

Army - CE

CIVIL AGENCY COORDINATING ACTIVITIES:

GSA-FSS

PREPARING ACTIVITY:

Navy - YD

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