

INCH-POUND

A-A-50498A

1 September 2026

SUPERSEDING

A-A-50498

5 July 1990

## COMMERCIAL ITEM DESCRIPTION

### VALVE, FOOT, CAST IRON, BRONZE AND POLYVINYL CHLORIDE (PVC)

The General Services Administration has authorized the use of this commercial item description as a replacement for military specifications MIL-V-17720E and MIL-V-16721D which are cancelled.

#### 1. SCOPE.

1.1 Scope. This commercial item description (CID) covers foot valves used in suction pipeline systems for transporting water and light petroleum distillates.

#### 2. CLASSIFICATION.

2.1 Classification. Valves shall be of the following type, style and sizes:

Type CI - Cast Iron (Styles 1 or 2)  
Type BZ - Bronze (Styles 1 or 2)  
Type PV - Polyvinyl Chloride PVC (Style 3 only)

Style 1 Internally threaded end connection  
Style 2 Flanged end connection  
Style 3 Solvent welded end connection (Style 3 only)

| Size | Dimensions<br>(inches) | Size | Dimensions<br>(inches) | Size | Dimensions<br>(inches) |
|------|------------------------|------|------------------------|------|------------------------|
| A    | 0.500                  | H    | 4.000                  | O    | 16.000                 |
| B    | 0.750                  | I    | 5.000                  | P    | 18.000                 |
| C    | 1.000                  | J    | 6.000                  | Q    | 20.000                 |
| D    | 1.500                  | K    | 8.000                  | R    | 24.000                 |
| D    | 2.000                  | L    | 10.000                 | S    | 30.000                 |
| F    | 2.500                  | M    | 12.000                 |      |                        |
| G    | 3.000                  | N    | 14.000                 |      |                        |

Comments, suggestions, or questions on this document should be addressed to: Commander, DLA Weapons Support (Columbus), Attn: VAI, P.O. Box 3990, Columbus, Ohio, 43218-3990 or email: [FluidFlow@dsc.dla.mil](mailto:FluidFlow@dsc.dla.mil). Since contact information can change, you may want to verify the currency of this address information using ASSIST at <https://assist.dla.mil>.

AMSC N/A

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FSC 4820



### 3. SALIENT CHARACTERISTICS.

3.1 Salient characteristics. Foot valves shall be of the poppet design, consisting of a valve body, trim and strainer. Valves shall permit flow in one direction only and shall close tightly to prevent flow in the opposite direction. Moving parts shall be smooth, nonsticking and operate without shock or jar. Cast iron valves shall withstand a working pressure of 25 pounds per square inch (psi) and an internal test pressure of 125 psi. Cast iron flanged foot valves shall be in accordance with ASME B16 .1. Bronze and PVC valves shall withstand a working pressure of 150 psi and an internal test pressure of 300 psi. End connections shall be internally threaded for brass valves. PVC valves shall have threaded, flanged, or solvent-welded end connections. Flanges shall conform to ASME B16.24.

3.2 Metric products. Products manufactured to metric dimensions will be considered on an equal basis with those manufactured using inch-pound units, provided they fall within specified tolerances using conversion tables contained in the latest revision of Federal Standard FED-STD-376, and all other requirements of this CID are met.

If a product is manufactured to metric dimensions and those dimensions exceed the tolerances specified in the inch/pound units, a request should be made to the contracting officer to determine if the product is acceptable.

The contracting officer has the option of accepting or rejecting the product.

### 4. REGULATORY REQUIREMENTS.

4.1 The offerer/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR).

### 5. PRODUCT CONFORMANCE PROVISIONS.

5.1 Product conformance. The products provided shall meet the salient characteristics of this commercial item description, conform to the producer's own drawings, specifications, standards, and the quality assurance practices, and be the same product offered for sale in

### 6. PACKAGING.

6.1 Preservation, packing and marking shall be as specified in the contract or order.

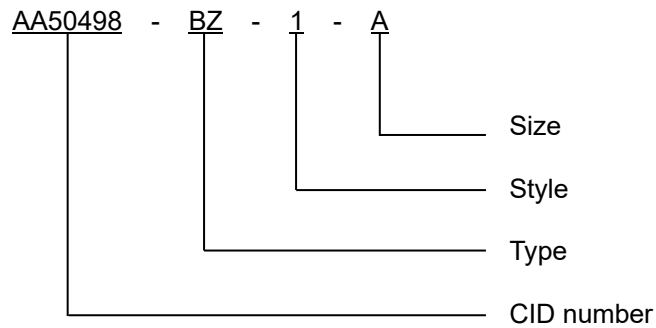
### 7. NOTES.

7.1 Unless otherwise specified, all dimensions are in inches.

7.2 Purchases should specify type, style and size.

7.3 The following part or identification numbering procedure is for government purposes and does not constitute a requirement for the contractor. The part number identification number (PIN) shall consist of the basic commercial item description number followed by type, style and size.

Example:



#### 7.4 Source of documents.

7.4.1 Department of Defense Specifications. Copies of Department of Defense specifications may be obtained from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094 or online at <https://quicksearch.dla.mil>.

7.4.2 FAR. The FAR may be obtained from the Regulatory Secretariat, 1800 F Street NW, Washington DC 20405 or online at <https://www.acquisition.gov>.

7.4.3 ASME. Copies of ASME standards are available online at <https://www.asme.org>.

#### 7.5 Key words.

Poppet  
solvent-welded  
flanged  
Internally threaded

7.6 Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

CONCLUDING MATERIAL

Custodians:  
Army – CR4  
Navy – YD  
Air Force – 71  
DLA – CC

Preparing activity:  
DLA - CC

(Project 4820-2026-012)

Review activities:  
Army – GL  
Navy – MC

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