

[INCH-POUND]
A-A-59440/4
13 August 1999
SUPERSEDING
MS35785B
30 March 1973

COMMERCIAL ITEM DESCRIPTION SPECIFICATION SHEET

COCK, DRAIN, GROUND KEY, 150 P.S.I.

The General Services Administration has authorized the use of this Commercial Item Description Specification Sheet for all federal agencies.

The complete requirements for procuring the cocks described herein shall consist of this document and the latest issue in effect of A-A-59440.

1. **SCOPE.** This commercial item description covers the requirements for cocks, drain, ground key, 150 PSIG in nominal sizes of 1/8 inch through 1/2 inch NPTF.

2. **CLASSIFICATION.** The characteristics of the cocks are contained in the schematics and charts found herein. The charts list the dash numbers that are included in the Part Identification Number (PIN) for the various styles of cocks.

3. SALIENT CHARACTERISTICS.

3.1 General. All cocks shall meet the requirements of Commercial Item Description A-A-59440, and the requirements herein with respect to their individual illustrations, tables, and notes unless otherwise specified by the contract or order.

3.2 Plugs and Stems. Plugs and stems shall be made of the materials annotated herein unless otherwise stated in the contract or order.

3.3 Size. The tables specified herein list the permissible variation in dimensions for each individual illustration. The external dimensions of the cocks should not limit procurement unless the end applications restrict these dimensions. Aside from the external dimensions of the cocks, all other requirements shall remain in effect unless otherwise stated in the contract or order.

4. REGULATORY REQUIREMENTS.

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

Beneficial Comments, recommendations, additions, deletions, clarifications, etc. and any data which may improve this document should be sent to: Defense Supply Center, Columbus, ATTN: DSCC-VAI, 3990 East Broad Street, Columbus, OH 43216-5000, or telephone (614) 692-0538.

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5. QUALITY ASSURANCE 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 quality assurance practices, and be the same product offered for sale in the commercial market. The government reserves the right to require proof of such conformance.

6. PACKAGING.

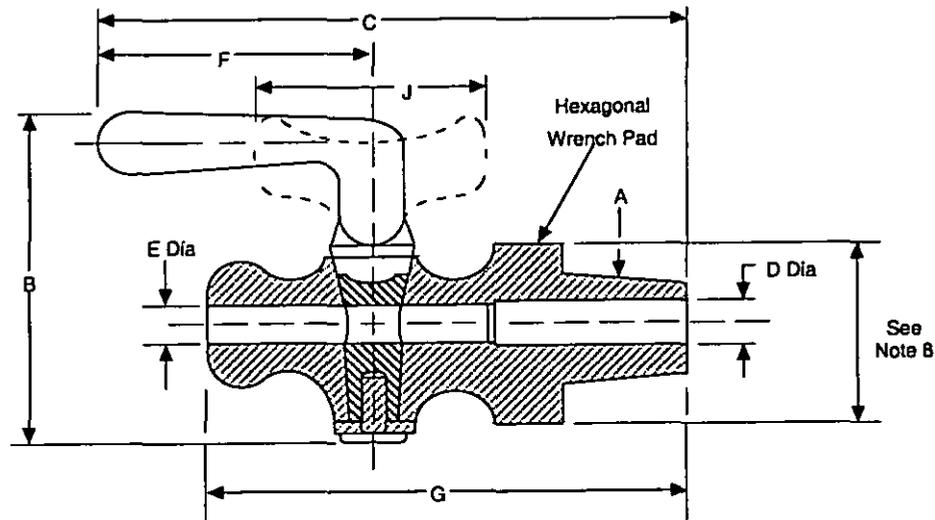
6.1 Preservation, Packing, and Marking. Preservation, packing, and marking shall be specified in the contract or order.

7. NOTES.

7.1 Part Identification Number (PIN). The PIN consists of the CID specification sheet number and the corresponding dash number given in this CID specification sheet for the particular type of cock required. Example: AA59440/4-014.

7.2 Ordering Data. Ordering data shall be as specified in A-A-59440.

Cock, Drain, Ground Key 150 psig steam at 351° F



Lever Handle

| Dash No. | A Pipe Thread NPTF | B Max | C Max | D Dia Min | E Dia Min | F Max | G Max |
|----------|--------------------------|----------|----------|-----------------|-----------------|----------|----------|
| 014 | 1/8 - 27 | 1.47 | 2.25 | .16 | .16 | 1.22 | 1.72 |
| 015 | 1/4 - 18 | 1.66 | 2.56 | .19 | .16 | 1.41 | 1.97 |
| 016 | 3/8 - 18 | 1.88 | 3.12 | .25 | .22 | 1.72 | 2.34 |
| 017 | 1/2 - 14 | 2.44 | 3.94 | .38 | .28 | 2.16 | 2.88 |

Tee Handle

| Dash No. | A Pipe Thread NPTF | B Max | D Dia Min | E Dia Min | G Max | J Max |
|----------|--------------------------|----------|-----------------|-----------------|----------|----------|
| 018 | 1/8 - 27 | 1.47 | .16 | .16 | 1.72 | .97 |
| 019 | 1/4 - 18 | 1.66 | .19 | .16 | 1.97 | 1.09 |
| 020 | 3/8 - 18 | 1.88 | .25 | .22 | 2.34 | 1.22 |

Notes:

1. **Material:** Brass conforming to Non-Government Standards (NGS) ASTM-B121, ASTM-B36, ASTM-B16, ASTM-B16M, and ASTM-B124, Alloy Numbers 268, 360, B5, or Alloys covered under NGSs ASTM- B22, B30, B61, B62, B66, B67, B148, B176, B271, B369, B427, B505, B584, B763, B770, B806, and SAE-AMS4842, AMS4845, AMS4855, AMS4860, AMS4862, AMS4890.
2. **Protective Coating:** None.
3. **Threads:** Threads shall be in accordance with NGSs ANSI B1.20.3 and ANSI B1.20.5.
4. **Dimensions:** Unless otherwise specified all dimensions are in inches.
5. **Test Pressures:** Shell 300 psig, Seat 150 psig
6. Reference documents shall be of the issue in effect on date of invitations for bid.
7. This item is for use in liquid or gas systems where the pressure does not exceed 150 psig steam at 351° F and the liquid or gas is compatible with brass.
8. Measurement across flats of Hexagonal Wrench Pad shall be a standard measurement under 1 inch.
9. The illustration is for identification purposes only and is not intended to restrict designs or shapes not dimensioned.

Figure 1. Cock, Drain, Ground Key.

Table 1.
NSN/MS PART NUMBER/CID PIN EXTENSION/COMMERCIAL PART NUMBER TRACKING RECORD

| COMPANY | | | | Essex Brass Co. | Conbraco Industries Inc. | Lukenheimer Co. | Automatic Controls |
|------------------|-----------|----------------|----------------|-----------------------|--------------------------------|--------------------|---|
| CAGE CODE | | | | 20969 | 72219 | 37239 | 9K117 |
| NSN | MS SHEET | SPEC. SHEET | CID PIN EXT | | | | |
| 4820-00-826-2190 | MS35785-1 | A-A-59440/4 | 014 | SC63-L | 41-650-04 | 980 1/8 | |
| 4820-00-197-4984 | MS35785-2 | A-A-59440/4 | 015 | SC64-L | 41-660-04 | 980 1/4 | |
| 4820-00-061-4769 | MS35785-3 | A-A-59440/4 | 016 | | 41-140-04 | 980 3/8 | |
| 4820-00-554-8391 | MS35785-4 | A-A-59440/4 | 017 | | 41-150-04 | 980 1/2 | |
| 4820-00-921-3610 | MS35785-5 | A-A-59440/4 | 018 | SC63-T | 41-630-04 | 476 1/8 | Penberthy Bronze Drain Cock Single Male 1/8 |
| 4820-00-057-0694 | MS35785-6 | A-A-59440/4 | 019 | SC64-T | 41-640-04 | 476 1/4 | Penberthy Bronze Drain Cock Single Male 1/4 |
| 4820-00-410-1925 | MS35785-7 | A-A-59440/4 | 020 | | 41-080-04 | 476 3/8 | Penberthy Bronze Drain Cock Single Male 3/8 |

MILITARY INTERESTS:

Custodians:

Army - AR
Navy - SH
Air Force - 99
DLA - CC

Review activities:

Army - AT, AV, CR4
NAVY - MC

CIVIL AGENCIES AND COORDINATING ACTIVITIES:

GSA – FSS

Preparing activity:

DLA – CC

(Project 4820-0778-14)