

Section 4. MARKING

4.1. All marking shall be sufficiently durable to withstand fair usage.

4.1.1. The following symbols shall be shown in a frame in a suitable position on the valve:-

- (a) The CV title.
- (b) The Broad Arrow (Government Mark)
- (c) The Date Code (See 4.1.2.)
- (d) The letter K for a Valve made to specification K1001 or K1006, or J for a valve made to the JAN or MIL specification.
- (e) The Qualification Approval letter as follows:-
  - B when Approval has been given by a U.K. Authority.
  - U when Approval has been given by or on behalf of both U.K. and U.S. Authorities.
  - D when Approval has been given by the Australian Services.

NOTE:- When approval has been given for the use of a valve in MDAP equipment by the Director of Electronics Research and Development (Afr) but that valve has not received Qualification Approval the letter X shall be marked on the valve as if it were the appropriate Qualification Approval letter.

- (f) The Factory Identification Code (See Appendix VIII)
- (g) Any other marking required by the Test Specification.

Items (d), (e) and (f) shall be arranged in that order with an oblique stroke between (e) and (f).

When a serial number is required by the Test Specification it may be put, if desired, on an internal component provided it is clearly visible.

When the Test Specification calls for a E.I.A. (or RETMA)<sup>‡</sup> or other U.S. type designation to be marked on the valve, and a mineral filled base is used, the letter Y shall be included at the end of the name to indicate the use of a mineral filled base, e.g.

CV509 - 6V6GY

4.1.2. The Date Code shall shew when the marking was put on the valve and shall consist of four digits. The first two being the last two of the year and the second two being the calendar week of the year. When the calendar week consists of a single digit it shall be preceded by a zero

e.g. For Week February 9th to 15th 1964, the code shall read '6407'

Note. Week 1 is defined as the week when January 1st falls on or between Sunday and Friday. When January 1st falls on a Saturday, Week 1 commences on January 2nd.

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‡ Electronic Industries' Association (formerly Radio Electronic Television Manufacturers' Association of America).

(Paragraphs 4.1.1. (sub-clauses (a), (c), (d), (e) and (f) and 4.1.2. are requirements in accordance with N.A.T.O. Stanag No. 4012).

4.1.2.1. Alternative Date Code

Until January 1st 1965 the following alternative Date Code shall be acceptable at the discretion of the manufacturer.

The Code shall consist of two block letters, the first representing the year beginning at A for 1945 and the second representing the month beginning at A for January, e.g.:-

AA	=	1945 January
AB	=	1945 February
NA	=	1957 January
NF	=	1957 June

The letters I and O shall not be used in the Code

4.1.3. Any marking additional to the above shall be subject to the approval of the Inspection Authority. Any such approved marking which involves periodic changes will not require approval for each individual change.

4.1.4. When it is impracticable, on account of physical limitations, to comply with paragraph 4.1.1. the approval of the Authority concerned should be sought for the omission of some of the symbols and/or frame. The order of preference for retention of the symbols is:-

- i The CV number
- ii The Factory Code
- iii The Date Code
- iv The Broad Arrow
- v The Specification and Qualification Approval letters

4.1.5. Warning Marking for Radioactive Valves

(See Section 19 for definition of a Radioactive Valve).

4.1.5.1. For British Manufactured Radioactive Valves

Additional to the general marking requirements at 4.1.1. to 4.1.4. above, all British manufactured Radioactive Valves shall be marked on the bulb or envelopes as at Fig.4/1 with the three following items of Warning Marking:-

- (i) the word "CAUTION" in positive lettering i.e. printed in the imprinting colour in the ordinary sense. (This is opposite to American practice where the imprinting colour is used for a large surround and the cautionary word appears by absence of imprinting ink in the background colour.)
- (ii) A three-bladed Radioactivity Symbol as illustrated.
- (iii) The Chemical Symbol(s) for the Radioactive substance(s) within the valve. As an example, the illustrations show the Chemical Symbol "Co 60" for Cobalt 60.

**NOTE:** For some years to come, stocks will exist of British made Radioactive Valves bearing the now superseded warning marking of an orange band  $\frac{1}{4}$ -inch wide.

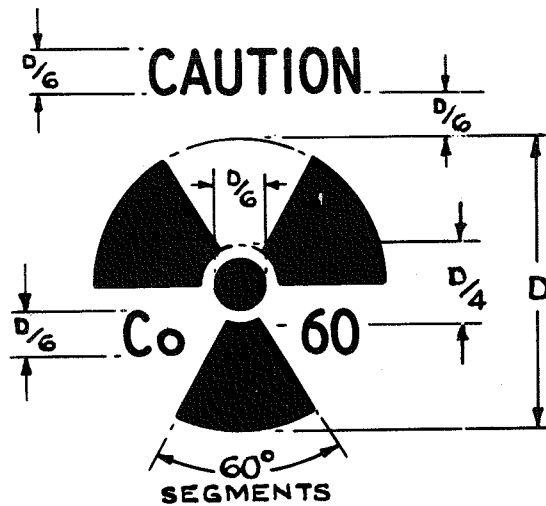


Fig.4/1

Physical particulars for the Radioactive Warning Marking as above shall be as follows:-

(iv) Imprinting colour

796 Dark Violet to British Standard 381C,  
or  
47142 Magenta to American Standard FED-STD-595

(v) Background Colour

Not specified for valves but the violet or magenta imprinting colour must be clearly visible against the background.

(vi) Size. Dimension D (see Fig.4/1) to be not less than half the diameter of the bulb or envelope.

4.1.5.2. For American Manufactured Radioactive Valves

Current American practice for Radioactive Warning Marking as in United States Military Specification MIL-M-19590B dated 17th June 1958 will be accepted.

4.1.5.3. For Radioactive Valves other than British or American

Radioactive Warning Marking shall be according to 4.1.5.1. above.

4.2. Valves accepted before Qualification Approval or under Concession

4.2.1. If a valve which has not met some particular electrical requirement is accepted under concession the letters to the left of the oblique stroke shall be replaced or cancelled by a yellow splash unless otherwise stated by the authority giving the concession. A document giving a concession which also states that the specification will be amended is to be treated as an amendment to the specification and the yellow splash requirement will not apply.

4.2.2. If a valve which has failed some physical requirement of the specification is accepted under concession the letters to the left of the oblique stroke shall be replaced or cancelled by a yellow splash when requested by the authority giving the concession.

4.2.3. If deliveries of a valve are required before Qualification Approval has been given, or when it has been withdrawn, the Qualification Approval letter is to be omitted or cancelled with a black, dark or neutral splash or stroke.

4.3. Valves accepted to Commercial Specifications in the absence of a CV Test Specification

Valves which have been allocated CV Numbers, but for which no Joint Service CV Test Specifications exists may be purchased to an agreed Commercial Specification. Such valves shall be marked in accordance with Para. 4.1.1.(a) and 4.1.1.(b).

4.4. Cancelled. See clause 4.1.5.

4.5. Marking on Semiconductor Diodes. See Section 5.C.

4.6. Packaging. Packaging shall be marked in accordance with Specification K.1005.

4.7. Pin and Lead Protectors. Details of Pin and Lead Protectors where relevant are contained in Appendix VIII.