

MINISTRY OF SUPPLY - DLRD(A)/RRE(South)

VALVE ELECTRONIC

CV1743

|                                                                                                         |                      |              |
|---------------------------------------------------------------------------------------------------------|----------------------|--------------|
| Specification MOS(A)/CV1743<br>Issue 1 Dated 16. 5. 55<br>To be read in conjunction with K1001 & BS.448 | <u>SECURITY</u>      |              |
|                                                                                                         | <u>Specification</u> | <u>Valve</u> |
|                                                                                                         | UNCLASSIFIED         | UNCLASSIFIED |

|                                                 |  |  |                           |                 |
|-------------------------------------------------|--|--|---------------------------|-----------------|
| TYPE OF VALVE - Gas-filled Protective Spark Gap |  |  | <u>MARKING</u>            |                 |
| ENVELOPE - Glass or porcelain                   |  |  | See K1001/4               |                 |
| PROTOTYPE - BS.64                               |  |  | <u>BASE</u>               |                 |
|                                                 |  |  | Octal                     |                 |
|                                                 |  |  | BS.448 : B8-0/1.1         |                 |
|                                                 |  |  | <u>CONNECTIONS</u>        |                 |
|                                                 |  |  | Pin                       | Electrode       |
|                                                 |  |  | 1                         | Lower electrode |
|                                                 |  |  | 2 to 7                    | No connection   |
|                                                 |  |  | 8                         | Lower electrode |
|                                                 |  |  | TC                        | Upper electrode |
|                                                 |  |  | <u>TOP CAP</u>            |                 |
|                                                 |  |  | CT2                       |                 |
|                                                 |  |  | See BS.448 : 6/1.2        |                 |
|                                                 |  |  | except that Ref. C may be |                 |
|                                                 |  |  | 10.3mm min. to 11.9mm max |                 |
|                                                 |  |  | <u>DIMENSIONS</u>         |                 |
|                                                 |  |  | See K1001/4I/D1           |                 |
|                                                 |  |  | Dimension (mm)            | Min. Max.       |
|                                                 |  |  | B. Diameter               | 29.0 31.0       |
|                                                 |  |  | C. Base diameter          | - 35.0          |
|                                                 |  |  | L. Overall length         |                 |
|                                                 |  |  | less pins                 | 44.0 60.5       |
|                                                 |  |  | - Bulb length             | 19.0 -          |
|                                                 |  |  | <u>MOUNTING POSITION</u>  |                 |
|                                                 |  |  | Any                       |                 |
|                                                 |  |  | <u>NOTE</u>               |                 |
|                                                 |  |  | A. Averaged over 3 secs.  |                 |

TESTS

To be performed in addition to those applicable in K1001

| Test Conditions - unless otherwise specified                                                  |                   |             |             |         |        |      |       |
|-----------------------------------------------------------------------------------------------|-------------------|-------------|-------------|---------|--------|------|-------|
| Applied Voltage (V)                                                                           |                   | PRF (pps)   |             | tp (us) |        |      |       |
| Adjust                                                                                        |                   | 50-1500     |             | 1.0     |        |      |       |
| Test                                                                                          | Test Conditions   | AQL %       | Insp. Level | Sym-bol | Limits |      | Units |
|                                                                                               |                   |             |             |         | Min.   | Max. |       |
| a                                                                                             | Breakdown Voltage | Notes 1 & 2 | 100%        | Vb      | 5.5    | 6.5  | kV    |
| <u>NOTES</u>                                                                                  |                   |             |             |         |        |      |       |
| 1. Rate-of-rise of the pulse voltage near breakdown shall lie within the limits 50-70kV/usec. |                   |             |             |         |        |      |       |
| 2. Test shall be performed after 7 days shelf life.                                           |                   |             |             |         |        |      |       |

CV1743/1/1