

ELECTRONIC TUBE REFERENCE

410A

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

THYRATRON

Mercury-vapor thyatron with negative control grid for controlled-rectifier and inverter service, providing grid-triggered power conduction in conversion and switching equipment.

GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | 4             |
| NOMINAL HEATER      | 2.5 V / —         | PARALLEL HEATER      | — / —         |
| HEATING             | Direct            | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

SECTION RATINGS

|                                                                                                                                                 |          |
|-------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| SECTION1                                                                                                                                        | Thyatron |
| MAXIMUM CATHODE CURRENT                                                                                                                         | 32 A     |
| <i>Promoted fields mapped from printed maximum-rating and characteristic headings; additional published values preserved in parameter rows.</i> |          |

Mercury-vapor thyatron with negative control grid for controlled-rectifier or inverter service.



SOURCE OPERATING CONDITIONS

SOURCE PDF

# 2026 Western Electric 400s

Published test conditions and operating points. Values on this page are preserved as reported by this source.

2026 WESTERN ELECTRIC 400S  
Section 1 · Thyatron

| CHARACTERISTIC                                                   |                 |                                                                               |
|------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------|
| PARAMETER                                                        | PUBLISHED VALUE | CONDITION / NOTE                                                              |
| Avereging Time . . . & v v                                       | 4 seconds       | Avereging Time . . . & v v 4 & ¢ & o 2 o o o 2 o »<br>o« » = s « « 15 seconds |
| {Averaging time = one<br>eycle). . + v + -« ¢ s . v<br>s« o v+ o | 0.25 ampere     | {Averaging time = one eycle). . + v + -« ¢ s . v<br>s« o v+ o 0.25 ampere     |
| Filament Voltage . . . . .<br>. , . ¢ v ¢ ¢ ¢ o « « »            | 2.37 volts      | Filament Voltage . . . . . , . ¢ v ¢ ¢ ¢ o « « » 2.37<br>2.5 2.62 volts       |
| Epp=                                                             | 100 volts       | Epp=100 volts;THg=40C;Grid Overvoltage=5<br>volis ---- 15 ---- microseconds   |
| Bpp=                                                             | 100 volts       | Bpp=100 volts;THg=80C;Grid (vervoltage=25<br>volts ---- 2 ----= microsaconds  |
| inode Voltage Drop . - v v ¢<br>v + + v                          | 4 volts         | inode Voltage Drop . - v v ¢ v + + v 4 4 o o o 8<br>wme= 12 ---- volts        |

| CAPACITANCE                               |                 |                                                                          |
|-------------------------------------------|-----------------|--------------------------------------------------------------------------|
| PARAMETER                                 | PUBLISHED VALUE | CONDITION / NOTE                                                         |
| Grid to Filement Capacitance<br>. . . + ¢ | 4 uuf           | Grid to Filement Capacitance . . . + ¢ 4 ¢« v &«<br>o ==--- 15 weae uuf, |

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