

ROSS ENGINEERING CORPORATION

WORKSHEET USE OF HV CURRENT LIMITING RESISTORS

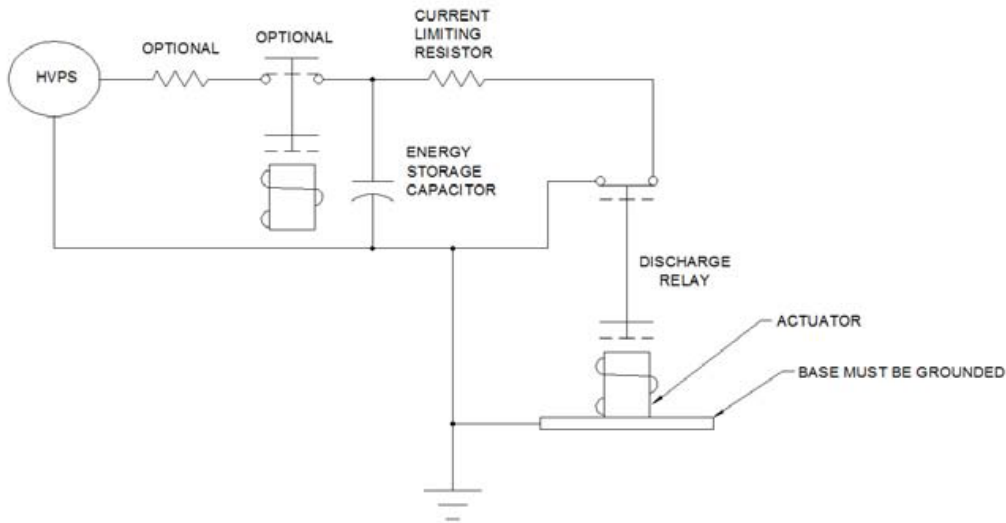
Name: _____ Company: _____ Date: _____

1) Requirements:

- A. kV DC _____
- B. kV RMS _____
- C. kV PEAK _____
- D. Peak Current limit _____
- E. Resistance _____
- F. Discharge RC time constant _____
- G. Capacitance, microfarads _____
- H. Continuous wattage _____
- I. Joules _____
- J. Max size: _____
Length: _____
Diameter: _____
- K. Repetition rate per second _____. Per Hour _____.
- L. Mounting _____
- M. HV clearances, min 10kV peak per inch for non arcing areas _____
- N. HV clearances min 30kV peak per inch for conductive arcing areas _____

2) Cautions:

- A. Discharge circuit



B. Physical placement

- 1. Current limiting resistor must be on HV side of discharge relay.
- 2. HV arcing contacts must have clearance from conductive objects since arc ionization can flash over to grounded conductors, preferably clearance 30kV per inch or more or an insulated barrier for arcing contact area.



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