

NIV & NPV Valves

For our isolation and pinch valves, the NIV and NPV series, Clippard recommends hitting the valve with 100% of the rated voltage for 50 ms minimum, and then dropping the voltage to 50% of the rated value.

The 50 ms minimum is a rule of thumb for the entire series. The larger valves require a longer hit time than the smaller valves, so an NR1 may have a required hit time of 15-20 ms, while the larger NR4 may require 30-50 ms, depending on how the valve is driven and used.

Hit and hold is especially important to consider for the NIV isolation valves, since the PTFE internals of the valve can be damaged by prolonged exposure to heat (including heat generated by its own coil). If you are going to hold the valves on for 4-5 minutes or longer, then you should consider implementing a hit and hold circuit to keep the valve from overheating.

EXAMPLE: For a 12V valve, hit the valve with 12V for 50 ms, then drop the voltage to 6V.



- [NIV Series Valves](#)
- [NPV Series Valves](#)