

PYROTECHNIC VALVE

PRODUCT FAMILY

A Pyrotechnic Valve is lightweight and reliable. These valves are critical to the liquid and gaseous fluid systems of missiles, launch vehicles, spacecraft and undersea vehicles. Explosively actuated valves perform the same function as valves by other means. The difference is that the operation of the explosively actuated valve is performed by a pressure cartridge, initiator or detonator. The advantages in the use of explosives as valve operators are twofold: First, the large energy conversion ratio, the long-term storage and the high reliability of the explosive device. Second, the rapid functioning times in milliseconds which are available in no other type of valve. They can be designed in a wide range of sizes, configurations and fluid mediums, including normally-open, normally-closed and multiple valve combinations to successfully support your mission-critical fluid systems from deep sea to deep space. One such example is our Combination Valve.



APPLICABLE SPECIFICATIONS

- Operating Temperature: Cryogenic to +250°F
- Input Stimulus: Within 10 milliseconds @ 5 amps (when electrically initiated)
Within 3 milliseconds from ETL input stimulus
- Outputs: Opens or Close off liquid or gas stream flow in transfer system within 12 milliseconds of input stimulus
- Qualified to: MIL-DTL-23659, MIL-HDBK-1512, MIL-HDBK-83578, compliant with MIL-STD-1901A

ENVELOPE & DIMENSIONS

