

CRYOGENIC BALL VALVES



Moog produces a variety of fluid control components used in space launch vehicles as part of their cryogenic fluid control systems. These components manage both cryogenic hydrogen and oxygen, including propellant isolation valves for rocket engine propellant feed systems and venting valves for propellant tank ullage pressure management. These valves are pneumatically-operated, using nitrogen or helium to provide actuation pressure. They are

ball valves, which provide the lowest pressure drop across the valve for their flow rate capability. Position indication is incorporated in some of the valves.

FLOW AND PRESSURE CAPABILITIES INCLUDE

- Pressures up to 300 psig MEOP
- Mass flow rates up to 148 lbm/sec LOx and 22 lbm/sec LH_2









CRYOGENIC BALL VALVES

PERFORMANCE CHARACTERISTICS





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