V100000-413-W

High Pressure Control Manifold

Valcor Engineering Corporation

DESCRIPTION

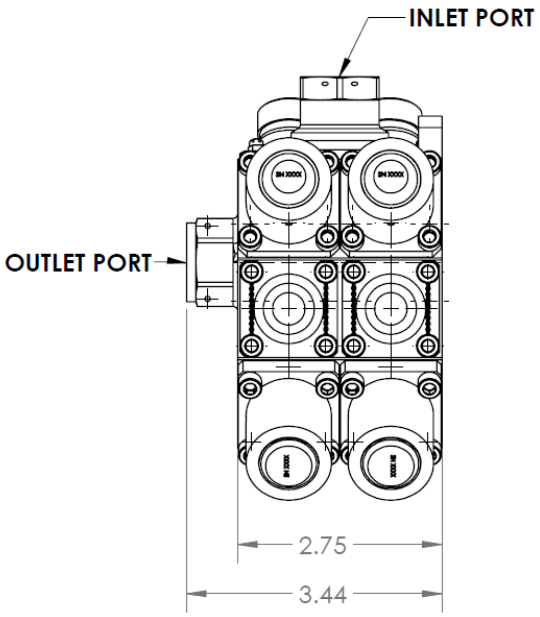
V100000-413-W is a compact pressure control manifold designed for control of high pressure gases used on launch vehicles. The manifold incorporates 4 individual solenoid valve units installed in a single valve body or manifold to provide single failure tolerant open and close functions. Each main valve is controlled by a pair of normally open and normally closed miniature solenoid valves. The use of pilot operated valves provides for smaller size and weight and require less power to operate than conventional non-piloted valves pressures. The piloted valves require less power to operate than conventional non-piloted valves enabling the manifold to be used in the tightest space available. They are well-suited for the high vibration, extreme temperatures, and cycle life requirements found in the most severe launch vehicle operating conditions.

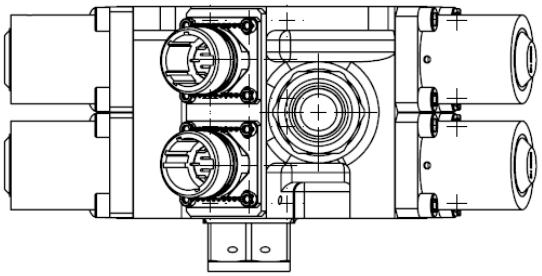
APPLICATION

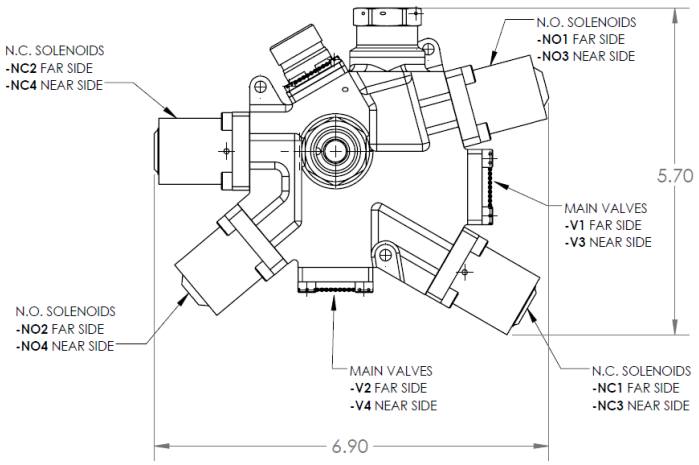
V100000-413-W are typically used with inert gases on space launch systems.

FEATURES

- Maximum Operating Pressure: 50-4500 PSIG
- Fast response time <100 mS
- Temperature: -170°F to + 160°F
- Electrical Connection: D38999/21 YC98PN
- Wetted Materials: 304, 430, 15-5PH, Inconel 718, 17-4PH, 17-7PH, PTFE, Vespel, Silicone
- Weight: Less than 12 lbs.
- Manifold mount design eliminates individual piping connections to each valve
- Fully customizable for your application







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