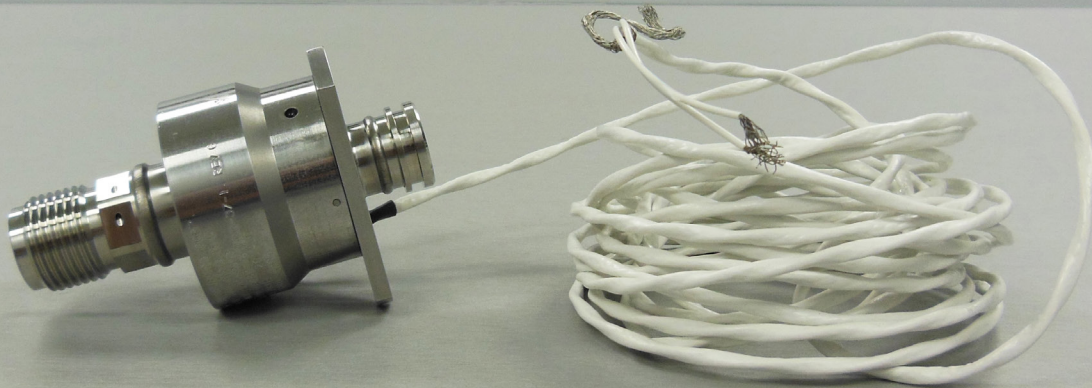


V64000

2-Way Normally Closed
Shut-Off Solenoid Valve

Valcor Aerospace 2-Way Direct Acting Solenoid Valve



DESCRIPTION

Series 64000 are direct acting coaxial, poppet solenoid shut-off valves. They are miniaturized versions of series 27200. They are extremely compact and lightweight. The compactness is achieved by using the solenoid plunger to carry the valve poppet seal. Series 64000 valves employ a simple construction containing only one moving part.

APPLICATION

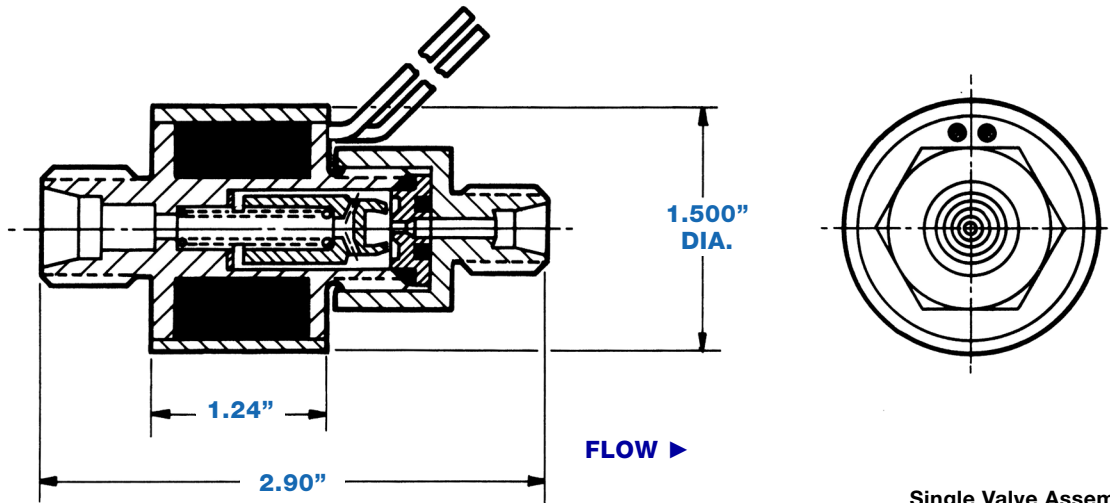
Series 64000 valves are applicable to all commonly used space vehicle propellants and inert gases. They are extensively used for missile and satellite applications where size and weight limitations are critical.

FEATURES

- 2-Way Normally Closed
- Poppet Design
- Available in: Series Redundant
- Proof Pressure: 2250 PSIG
- Burst Pressure: 3000 PSIG



SOLENOID VALVE SERIES 64000



Single Valve Assembly Shown.

Specifications

Operating Pressure and Flow Ratings

	Operating Pressure	Flow	Orifice	Temp. Range	Fluid	Voltage	Weight (lbs)	Response
Series Redundant -021	430 psig	.13 #/s		+40°F to +160°F	Hydrazine	28 VDC	0.9	<15 ms
Series Redundant -36	250 psig		0.090" ESEO	+14°F to +122°F	GH ₂ & GO ₂	28 VDC	1.1	15 ms
Series Redundant -31	220 psig		0.024" ESEO	+19°F to +250°F	MMH/NTO	28 VDC	0.4	<6 ms
Single -37	250 psig		0.104" ESEO	+14°F to +250°F	MMH/NTO	28 VDC	0.7	10 ms
Single -37-1	265 psig		0.104" ESEO	+10°F to +250°F	MMH/NTO	28 VDC	0.8	10 ms
Single -37-2	400 psig		0.104" ESEO	+10°F to +250°F	MMH/NTO	28 VDC	0.8	10 ms

Other orifice sizes, both larger and smaller, are available. However, ratings would change accordingly.
For higher temperatures, the pressure rating must be reduced.

Electrical Data

Voltage	18 to 30 VDC
Duty	Continuous
Other Available Coils	Coils can be made with higher or lower resistance, depending upon customer system avionics.
Electrical Connector	Per customer specifications

Leakage

External	Zero over range of 0 to 1500 PSIG
Internal	Between 1 scch and 1x10 ⁻⁶ sccs GHe