



 **MAROTTA®**

MV74LT SOLENOID VALVE | DATASHEET



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OUR Mission

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PRODUCT OVERVIEW

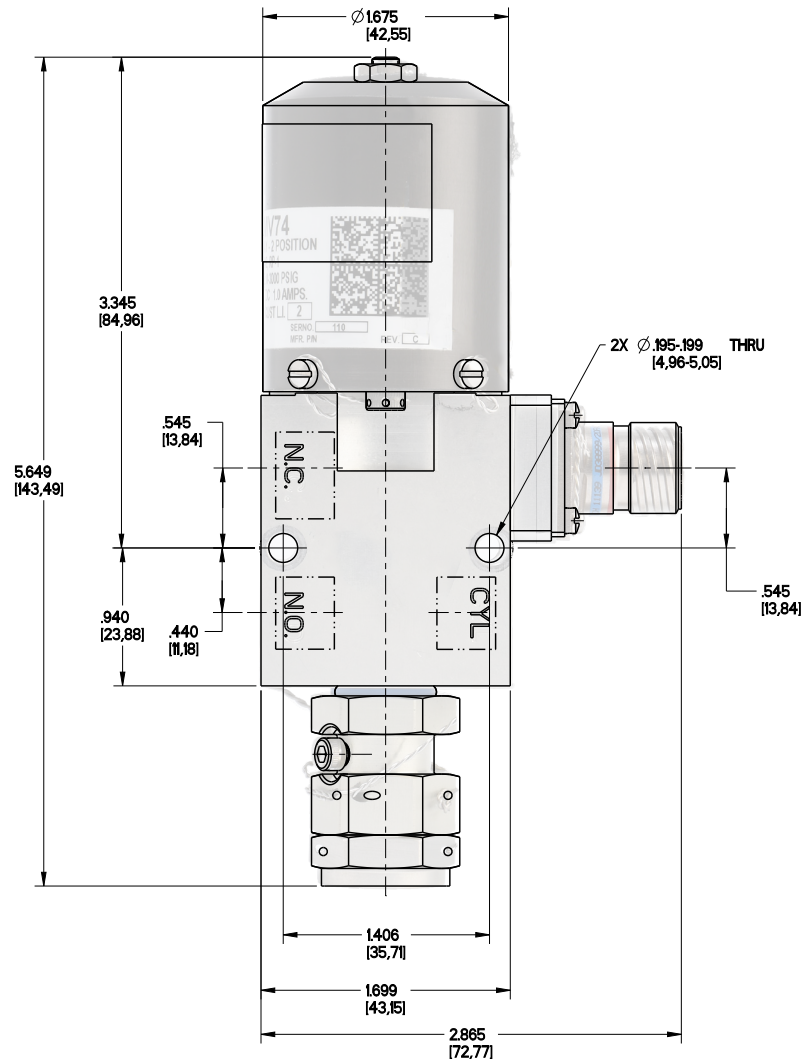
The flight-qualified MV74LT is a compact 3-way, 2-position direct acting solenoid valve which has been relied on by space programs for over 50 years. The MV74LT's adjustable configuration allows the valve to easily be customized to a wide variety of application requirements including materials for fluid compatibility, position indication and manual override capability. Multiple port configurations and high pressure options are also available.

TECHNICAL DATA

PARAMETER	MV74LT
Part Number	284751-9_24
Pressure Range	0 - 3,000 psig (0 - 20.68 MPa)
Proof Pressure	4,500 psig (31.02 MPa)
Burst Pressure	7,500 psig (51.71 MPa)
Operating Temperature Ambient & Line Fluid	-65°F to 140°F (-54°C to 60°C)
End Connections	AND10050-4 ¹
Electrical Connector	D38999/20FA98PN
Electrical ²	Continuous Duty 18 - 32 VDC 1 amp at 24 VDC
Cv	0.145
ESEOD (C _d = 0.6)	0.09" (2.28 mm)
Body Material	Aluminum Alloy
Seat Material	Polyimide Type IM
Seal Material	Nitrile Rubber, Flourocarbon
Weight	1.4 lb (0.64 kg)
Response Time	≤ 70 ms at 18VDC
Internal Leakage	≤1 SCCM GN2
External Leakage	≤1 SCCM GN2

¹Modified port depth. Fitting per SAE 070120 or similar requirement

²Bidirectional transient voltage suppression per 1N6122 installed in parallel with the solenoid coil



FEATURES

Balanced poppet

Optimized size to weight ratio

High reliability

Compatible with inert gases

Versatile; 2-way, 3-way

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