

MV543H / MV563H Series

SOLENOID VALVE

3-Way 2-Pos / Directional Control



 **MAROTTA**[®]

We're in Control

Direct Acting, Directional Control

The MV543H and MV563H are quick response (typical 0.050 seconds or less), 3-way, 2-position solenoid actuated valves. Standard models operate at pressures ranging from 0-3000 psig and 0-6000 psig. Both pressure ranges are suitable for either normally closed or normally open service. The flexibility in application and performance reliability are substantiated by years of dependable service.

Features:

- Up to 6,000 psig service
- Balanced poppet
- High reliability and quality
- All types of hydraulic or inert pneumatic fluids
- Bubble tight sealing
- Versatile 2-way, 3-way, Shuttle

Model	MV543H	MV563H
Part Number	803714-0011 (0-3000 psig) 803714-0007 (0-6000 psig)	803944-0011 (0-3000 psig) 803944-0007 (0-6000 psig)
Pressure Range	Up to 3,000 or 6,000 psig	Up to 3,000 or 6,000 psig
Service	All hydraulic or inert pneumatic fluids	All hydraulic or inert pneumatic fluids
Tube size	1/4"	3/8"
Electrical Data	Continuous Duty 18-30 VDC 1.3 AMP at 20°C 120 VAC, 440 VAC	Continuous Duty 18-30 VDC 1.3 AMP at 20°C 120 VAC, 440 VAC
ESEOD	3,000 psig - 0.145 (Cd=0.6) 6,000 psig - 0.130 (Cd=0.6)	3,000 psig - 0.182 (Cd=0.6) 6,000 psig - 0.170 (Cd=0.6)
Body Material	Available in all types of alloys	Available in all types of alloys
Trim	300 series stainless steel	300 series stainless steel
Seat	Nylon, Vespel SP-1, Metals	Nylon, Vespel SP-1, Metals
Seal	Fluorocarbon	Fluorocarbon
Weight	1.78 lbs approx (for aluminum body)	1.78 lbs approx (for aluminum body)

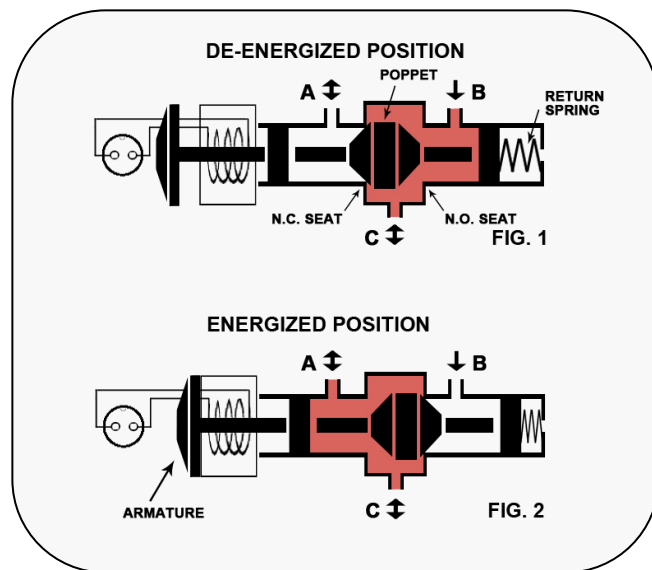
Note: The listed performance data represents specific program requirements and not the design limitations of the device. Special requirements or materials quoted on request.

Operating Description:

In the de-energized position Port A is blocked by the poppet, which is held against the normally closed seat by the poppet return spring. Port B is directly open to Port C, permitting free flow in either direction. (Fig. 1)

With voltage applied, the solenoid armature assembly moves the poppet away from the normally closed seat and onto the normally open seat. Now, Port A and Port C are interconnected and Port B is sealed from Port C. (Fig. 2)

The valves are of the balanced poppet design, requiring only a relatively light solenoid actuator for sealing at rated pressure. This feature conserves power and minimizes the space required for installation.



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SPECIALTY FLUID CONTROLS
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