Direct Coupled Valve Actuators

ML7984 Direct Coupled Linear Valve Actuators



The ML7984 is a self-contained, self-adjusting, motorized linkage that mounts directly onto V5011 two-way or V5013 three-way valves and provides up to 25 mm (1") of linear stem travel. For use with Series 70 2-10Vdc, 4-20mA; Series 90 135 ohm; and Electronic (Super Mod) modulating signals controllers.

- Allows the use of one common transformer power supply for multiple actuators and controllers
- Self-contained, motorized valve linkage
- Linkage self-adjusts to valve stroke from 12 to 25 mm (1/2 - 1")
- Multi-pose mounting
- Strong valve seat closing force 160 bf (710 N)
- Compact size for easy installation in confined area
- One device for either Vac or Vdc power supply application
- Electronic current sensing provides internal protection and positive full closing force
- Field-addable position feedback/auxiliary switch module available

Actuator Type: Valve
Fail Safe Mode: Stays in place
(Rated) Stem Force: 160 bf (710 N)
Cable Entry: 7/8 in. hole for 1/2 in. conduit
Dimensions, Approximate: 6 13/16 in. high x 4 in. wide x 3 3/16 in. deep (173 mm high x 102 mm wide x 82 mm deep)
External Auxiliary Switches Available: 272630D
Electrical Protection: NEMA 3R
Electrical Connections: Screw terminals
Ingress Protection Rating: NEMA 3R, IP54 (mounted in vertical position)
Feedback: Position feedback available w/ 272630D; 2-10 Vdc
Frequency: 50 Hz; 60 Hz
Number of Internal Auxiliary Switch: 0
Manual operation: None
Mounting: Screws onto 1/4-28 UNF threaded valve stem
Stroke: 1/2 to 1 in. (13 to 25 mm)
Supply Voltage: 24 Vac; 28 Vdc
Materials: UV-stabilized plastic cover, aluminum base & yoke
Operating Humidity Range (% RH): 15 to 95% RH at 104 F (40 C)
Ambient Temperature Range: 32 F to 130 F (0 C to 55 C)
Temperature Ratings (Shipping): -40 F to +150 F (-40 C to + 65 C)
Storage Temperature Range: -40 F to +150 F (-40 C to +65 C)
Weight: 2.2 lb (1 kg)
Includes: Screw terminals
Comments: Direct/Reverse Acting Switch

Accessories:
272629A-Adapter Kit for mounting ML6984/ML7984 to V5045 and VGF non-pressure balanced 2-way valves
272630D-Position feedback and SPDT pilot duty auxiliary switch

Product Number	Control Signal	Timing (seconds) Nominal Driving @ 60 Hz	Switch Ratings	Power Consumption (Driving)	Power Consumption (Holding)	Input Impedance	Used With
ML7984A4009/U	SuperMod; 2 to 10 Vdc; 4 to 20 mA; 135 ohm potentiometer	63 at 3/4 in stroke	24 Vac	6 VA	12 VA	Voltage - 20 Kohm, Current - 237ohm	V5011/13, VGF21, and VGF22 up to 3 in.; V5045 w/ 272629A