

# 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)	Switch Ratings	Power Consumption		Input Impedance	Used With
		Nominal Driving @ 60 Hz		(Driving)	(Holding)		
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