

COMPACT VALVE ACTUATORS

hanbayinc.com | 1 800 315 4461 | hanbaysales@hanbayinc.com

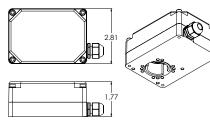


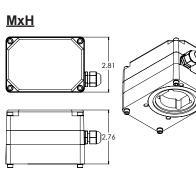
KEEP IT SIMPLE, GO ELECTRIC

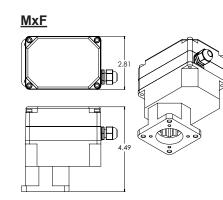


M-SERIES ACTUATOR DIMENSIONS AND SPECS

MxJ / MxL / MxM







Description and Specifications:

٦Ħ

3.98

Enclosure:	Aluminum die cast E-coating,stainless NEMA 4 / IP56	Positioning resolution:	+/- 0.15 deg max. adjusting to electronic signal resolution of 12 bit additional signal filters available	Isolate [Al and
Temperature range:	0 65 °C internal (derate duty cycle at high temp.)	Range/ Speed setting:	Dip switches inside enclosure	Feedb [AF mo
Ext. temp. range:	-40 60 °C (option Heater)	Control options:	Analog (4 - 20 mA, 1 - 5 V, 1 - 10 V),	Positio
Stall protection:	Electronic position and motion detection		Modbus, TTL (on/off)	Positio
Feedback:	TTL, 4 - 20 mA	End travel detection:	For needle valve, by motion detection	
Manual Override:	Optional	Power setting:	Adjustable	<u>Other</u>
	Metal and bronze, oiled/greased for life	Mechanical shock:	Repeated ≤ 130 g - force no effect, occasional ≤ 150 g - force no effect > 150 g - force not tolerated	TTL Si
External Fasteners:	Stainless Steel	Machanical vibration	-	TTL al
Life Expectance:	250,000 cycles in specified conditions	Mechanical vibration:	Random SAE J1211, Chassis, Exterior	TTL si (Feedb
Motor:	Brushless DC motor, computer control	Thermal Shock:	-20 °C to + 60 °C 10 min	
Voltages/Current:	12-24 VDC/Max3A @ 24 VDC 110/220 VAC/Max1.5A @ 110/220 VAC	Failsafe battery:	LiPo rechargeable battery, will position the actuator to predetermined desired position	Certif FCC 4 ICES-0
Positioning precision:	+/- 3 deg for 1/4 – 1/2 turn +/- 0.25 deg for multi turn	Weight:	MxJ, MxL, MxM: 650 g MxH, MxF: 1300 g	EN 61: (GROU

MCx Multi-turn models

Model	Torque range [in-lbs]	Speed range [1 turn in sec]
MCJ	4 16	17*
MCL	12 48	17
MCM	35 145	4 23
MCH	120 497	18 90
MCF	230 915	38 186

MDx 1/4 and 1/2 tur	n models	[1/4 turn in sec]
MDM	212 247	13
МОН	430 532	3 0

	212247	13
MDH	430 532	39
MDF	710 1050	5 15

* De-rate the duty cycle to 25% for the highest torque values <u>Note:</u> speed and torque depend on settings by dip switch of actuator Consult user manuals of individual units. Actuators are set for optimum speed.

Other Specifications Multi-turn Models:

2 bit	Isolated Signals: [AI and AF models only]	Optical isolation 1000 V min		
e	Feedback 420mA: [AF model only]	For sensing resistor of max. 250 ohms. Floats +6 VDC / -2 VDC from power Gnd		
10 V), tection	Position power loss:	Standard: "remembers" position before shut down, will reseat valve based on torque setting when the signal is be- tween 3 and 4 mA		
64	Other Specifications 1/4 and 1/2 turn Models:			
fect, ffect	TTL Signals in:	Internal pull up, <1 mA required to pull down		
Exterior	TTL signals out: (Feedback)	Standard: 5 V at 2.5 mA max Option: 24 V at 1 A max		
position	Certifications:			

CC 47 CFR PART 15 SUBPART B CES-001 ISSUE 4 JUNE 2006 EN 61362-1:2013 GROUP 1, CLASS A; Industrial electromagnetic environment)