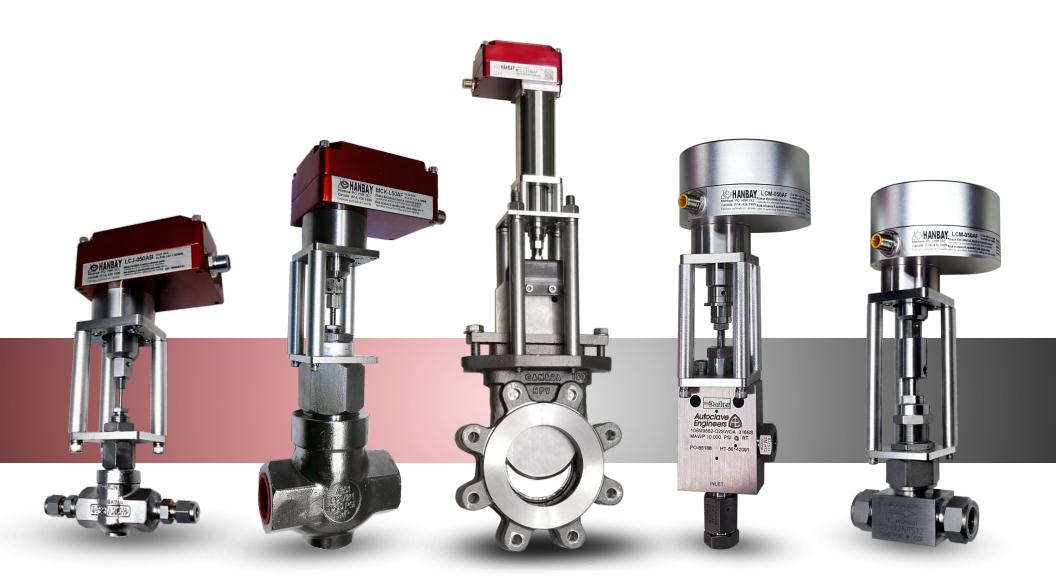


LINEAR VALVE ACTUATORS

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

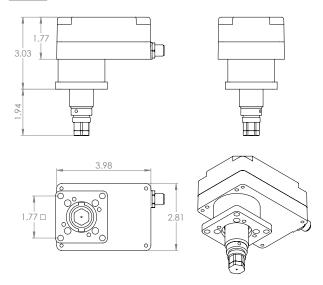






L-SERIES ACTUATOR DIMENSIONS AND SPECS

Mxx-L



Description and Specifications:

Enclosure:

Mxx-L Model: Aluminum die cast E-coating or stainless

Rxx-L Model:

Aluminum die cast anodized or stainless Class I, Div 1 Groups B, C, D/T6 Class II Groups E, F, G/T6 (85 °C)

Temperature range:

0 .. 65 °C internal

(derate duty cycle at high temp.)

Ext. temp. range:

-40 .. 60 °C (w. Heater option)

Stall protection:

Electronic position and motion detection

Feedback:

TTL. 4 - 20mA. Modbus

Gears & Bearings:

Metal and bronze, oiled/greased for life

External Fasteners:

Stainless Steel

Life Expectance:

250,000 cycles in specified conditions

Motor:

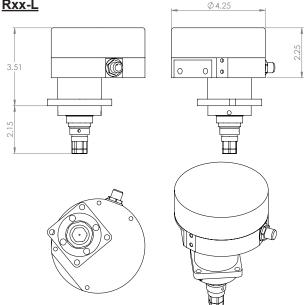
Brushless DC motor, computer control

Voltages/Current:

12-24 VDC/Max3A

110 - 240 VAC/Max1.5A @ 50/60 Hz

Rxx-L



Positioning precision: +/- 0.001" (0.025mm)

Positioning resolution: +/- 0.00005" (0.0013mm)

Positioning detection: Hall detectors

Range/ Speed setting: Dip switches inside enclosure

Control options: Analog (4 - 20 mA, 1 - 5 V, 1 - 10 V),

Modbus, TTL (on/off)

End travel detection: For needle valve, by motion detection

Power setting: Adjustable

Mechanical shock: Repeated ≤ 130 g - force no effect,

occasional ≤ 150 g - force no effect

> 150 g - force not tolerated

Mechanical vibration: Random SAE J1211, Chassis, Exterior

Thermal Shock: -20 °C to + 70 °C in 10 min

Failsafe battery: LiPo rechargeable battery, will position

the actuator to predetermined desired

position (Rxx Series only)

Linear models

Model	Seating force range [lbs]	Running force [lbs]	Speed range [time for 1 inch]
xCJ - L1 (16)	5 46	58	26 120*
xCL - L1 (16)	13 138	175	26 120
xCM - L1 (16)	35 400	517	78 360
xCJ - L2 (8)	12 60	67	13 64
xCL - L2 (8)	37 180	200	13 64
xCM - L2 (8)	110 535	600	40 189

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

Weight: Mxx-L: 1300 g

Rxx-L: 1600 g

(weight of linear assembly included)

Other Specifications:

Isolated Signals: Optical isolation 1000V min

[Al and AF models only]

Feedback 4..20mA: For sensing resistor of [AF model only]

[AF model only] max. 250 ohms. Floats

+6VDC / -2VDC from power Gnd

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

Stroke length: Regular 1 " (25.4 mm)

Extended: 2" (60mm) or 4" (120mm)

Certifications:

Mxx-L & Rxx-L model:

ICES-001 ISSUE 5 July 2020

IEC 61000-6-2:2016. IEC 61000-6-4:2018

FCC 47 CFR PART 15 SUBPART B

EN 61362-1:2013 (GROUP 1, CLASS A; Industrial electromagnetic environment)

IP66 (60529:2013) / NEMA 4X

Rxx-L model only:

IP 68 (60529:2013)

CSA & IECEX Certfied Enclosure