



## Radius MEHX - Explosion Proof Electro Hydraulic Actuator

### NORTH AMERICAN EXPLOSION PROOF

#### NEMA 4, 4X, 7 and 9

#### Hazardous Location Approvals:

Class 1, Groups C & D, Div. 1 & 2  
Class 2, Groups E, F & G, Div. 1 & 2

### EUROPEAN ATEX EXPLOSION PROOF

#### Hazardous Location Approvals:

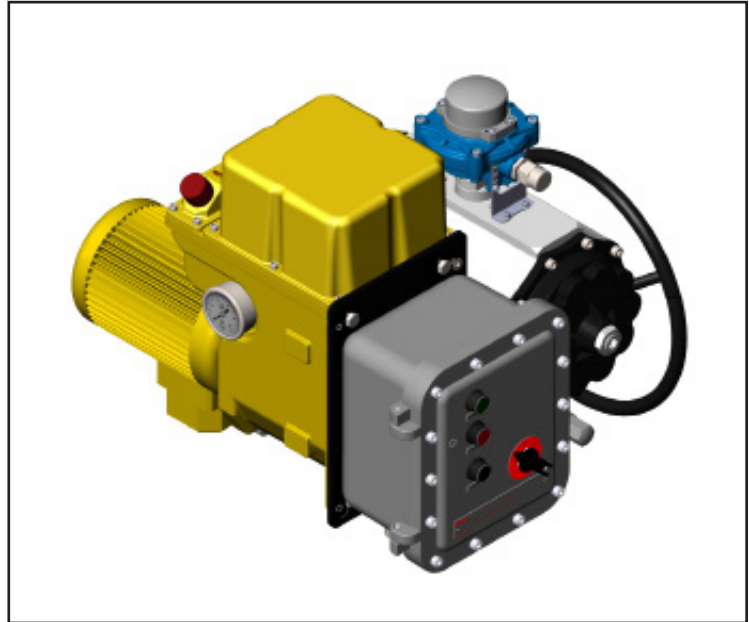
Class 1, Divisions 1 and 2, Groups C and D  
Class 2, Divisions 1 and 2, Groups E, F and G  
ATEX II 2 GD EEx d IIB T4-T6

### Features and Benefits

- Mounting surfaces according to ISO 5211 and VDI/VDE 3845
- The circuit pressure remains stable in spite of wide ambient temperature swings.
- Multiple combination of springs allow a wide range of torques for one model.
- Inner cylinder has been completely honed for long service life.
- Internal hydraulic porting eliminates leaking No tubing, fittings or hoses.
- Easy Maintenance with Smart Access to the Hydraulic and Electrical controls

### Options

- Low temperature versions down to -58F.°
- Special coatings for very high corrosive environments.
- Optional manual overrides attach easily to the actuator. Both manual gear boxes or hydraulic hand pumps.
- Fast closing time.



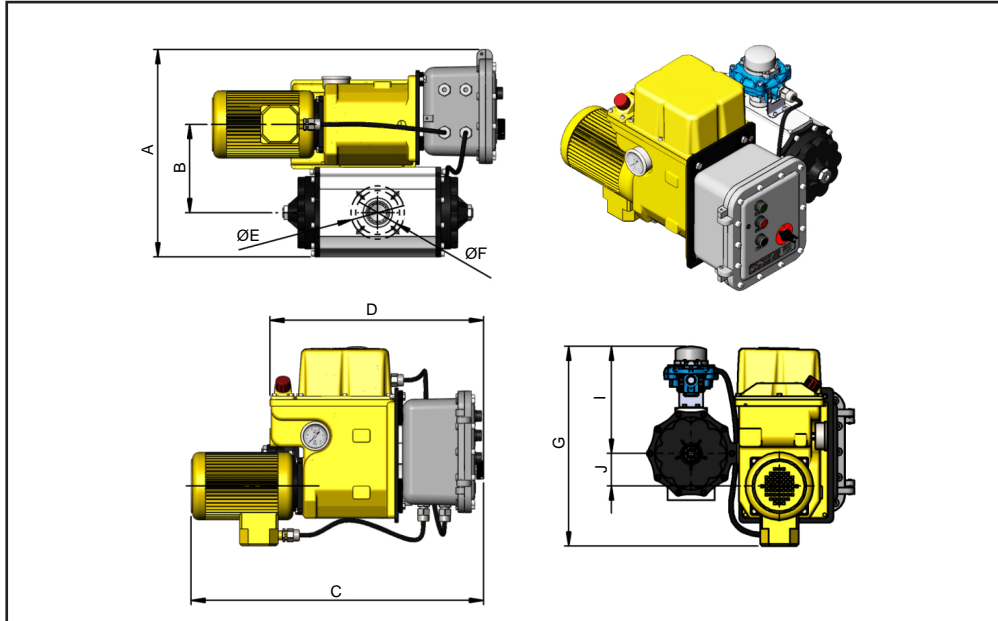
The Radius Electro-Hydraulic Spring Return actuators are specifically designed for use on quarter turn valves and dampers. The unit utilizes a hydraulic spring return actuator assembled to a compact hydraulic unit. When electric power is lost the springs in the actuator move it to a fail-safe position. The same electro hydraulic unit is used for all models. The unit has many control options such as fieldbus protocol, partial stroke testing devices and 4-20ma modulating positioners.

ACTUATOR	SPRING RETURN TORQUE (IN. LBS.)		HYDRAULIC TORQUE (IN. LBS.) 116 PSI	
	0°	90°	0°	90°
MEHX-030	797	1257	1788	1328
MEHX-040	1089	1938	2788	1938
MEHX-060	1637	2699	4399	3337
MEHX-100	2390	4248	6567	4709
MEHX-140	2859	4992	8585	6452
MEHX-200	3903	6665	11789	9028
MEHX-250	4735	8231	15206	11710
MEHX-370	8275	15719	26650	19206
MEHX-500	16082	30349	40297	26030

**SIL3 PED** approval   
Safety Integrity Level  
Radius LLC is ISO 9001:2008 certified.



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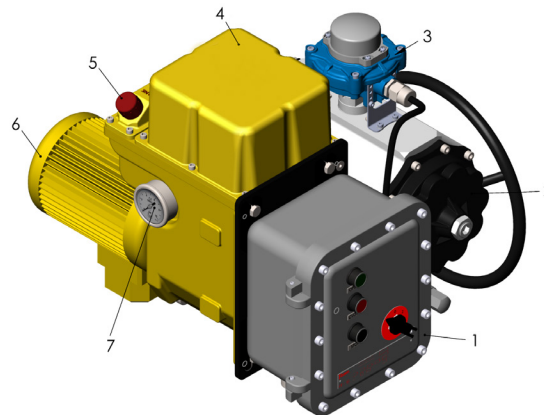


## Dimensions

ACTUATOR	A	B	C	D	ØE	ØF	G	J	I	ISO5211	WT (lbs.)
MEHX-030	17.48	7.28	26.89	19.69	4.02	2.76	18.11	3.03	9.72	F07/F10	143
MEHX-040	17.48	7.28	26.89	19.69	4.02	2.76	18.11	3.03	9.72	F07/F10	155
MEHX-060	18.66	8.15	26.89	19.69	4.02	2.76	18.11	3.03	9.72	F07/F10	170
MEHX-100	19.13	8.15	26.89	19.69	4.92	4.02	18.39	3.03	9.84	F10/F12	184
MEHX-140	20.08	8.74	26.89	19.69	4.92	4.02	18.90	3.03	10.31	F10/F12	211
MEHX-200	20.00	8.74	26.89	19.69	5.51	-	18.90	3.03	10.35	F14	250
MEHX-250	22.99	10.08	26.89	19.69	5.51	-	20.16	3.03	11.61	F14	269
MEHX-370	22.99	10.08	28.15	19.69	6.50	-	20.16	3.03	11.61	F16	424
MEHX-500	26.85	12.09	31.50	19.69	6.50	-	22.20	3.03	13.74	F16	631

## Unit Detail

NO.	DESCRIPTION
1	Explosion Proof Electric Control Box
2	Radius Rack and Pinion Actuator
3	Radius Explosion Proof Limit Switch
4	Hydraulic Circuit with ATEX components
5	Oil Tank
6	Explosion Proof Electric Motor
7	Gauge



## Electric Data

STANDARD ELECTRIC MOTOR				
MODEL	POWER (watts)	380V 3-PHASE	230V 3-PHASE	110V 1-PHASE
MEHJ-030 TO MEHJ-140	370	✓	✓	✓
MEHJ-200 TO MEHJ-500	500	✓	✓	✓

Note: Motor protection IP66 / DC motors also available.