



Radius MEH Electro Hydraulic Actuator

Features and Benefits

- Mounting surfaces according to ISO 5211 and VDI/VDE 3845.
- Standard NEMA 4, 4x. Wiring from the motor to control box protected with stainless steel tubing.
- 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.
- Easily Upgradable Controls .
- Smart Parts (same electro hydraulic unit is used for all models).
- Temperature range: -22°F to 176°F.

Options

- NEMA 7 and ATEX
- For larger torques, scotch yoke electro hydraulic actuators are available.
- Low temperature versions down to -58F.°
- Stainless steel drive shaft.
- 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.

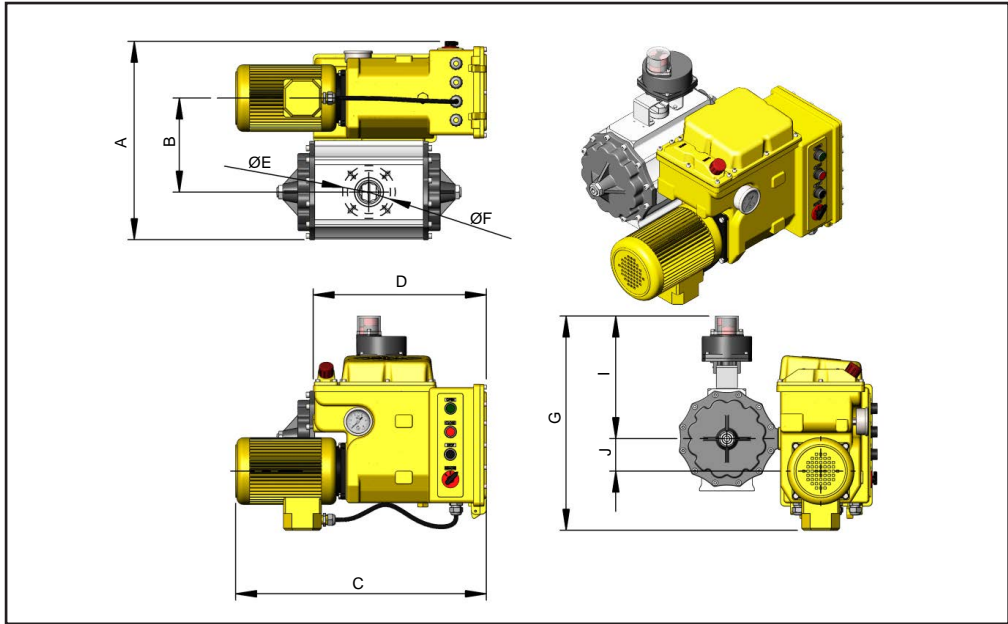
| ACTUATOR | SPRING RETURN TORQUE (IN. LBS.) | | HYDRAULIC TORQUE (IN. LBS.) 116 PSI | |
|----------|------------------------------------|-------|--|-------|
| | 0° | 90° | 0° | 90° |
| MEH-030 | 797 | 1257 | 1788 | 1328 |
| MEH-040 | 1089 | 1938 | 2788 | 1938 |
| MEH-060 | 1637 | 2699 | 4399 | 3337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

SIL3 PED approval
Safety Integrity Level

Radius LLC is ISO 9001:2008 certified.



Radius MEH Electro Hydraulic Actuator

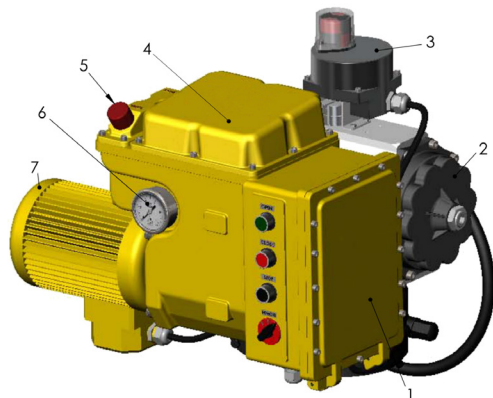


Dimensions

| ACTUATOR | A | B | C | D | ØE | ØF | G | J | I | ISO5211 | WT (lbs.) |
|----------|-------|-------|-------|-------|------|------|-------|------|-------|---------|-----------|
| MEH-030 | 15.83 | 7.28 | 23.39 | 16.14 | 4.02 | 2.76 | 18.11 | 3.03 | 9.57 | F07/F10 | 112 |
| MEH-040 | 15.83 | 7.28 | 23.39 | 16.14 | 4.02 | 2.76 | 18.11 | 3.03 | 9.57 | F07/F10 | 124 |
| MEH-060 | 17.05 | 8.15 | 23.39 | 16.14 | 4.02 | 2.76 | 18.78 | 3.03 | 10.24 | F07/F10 | 138 |
| MEH-100 | 17.48 | 8.15 | 24.02 | 16.14 | 4.92 | 4.02 | 19.09 | 3.03 | 10.59 | F10/F12 | 153 |
| MEH-140 | 18.46 | 8.74 | 25.12 | 16.14 | 4.92 | 4.02 | 19.92 | 3.03 | 11.42 | F10/F12 | 179 |
| MEH-200 | 18.39 | 8.74 | 25.12 | 16.14 | 5.51 | - | 19.92 | 3.03 | 11.42 | F14 | 218 |
| MEH-250 | 21.34 | 10.08 | 23.39 | 16.14 | 5.51 | - | 21.30 | 3.03 | 12.72 | F14 | 238 |
| MEH-370 | 21.34 | 10.08 | 28.15 | 16.14 | 6.50 | - | 21.30 | 3.03 | 12.72 | F16 | 393 |
| MEH-500 | 25.24 | 12.09 | 31.50 | 16.14 | 6.50 | - | 23.35 | 3.03 | 14.84 | F16 | 599 |

Unit Detail

| NO. | DESCRIPTION |
|-----|---------------------------------|
| 1 | Electric Control Box |
| 2 | Radius Rack and Pinion Actuator |
| 3 | Radius Limit Switch |
| 4 | Hydraulic Circuit Controls |
| 5 | Oil Tank |
| 6 | Gauge |
| 7 | Electric Motor |



Electric Data

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

Note: Motor protection IP66 / DC motors also available.