valve & automation high quality











General Features

REA 40 and REA60 Electric Actuators Standard Features:

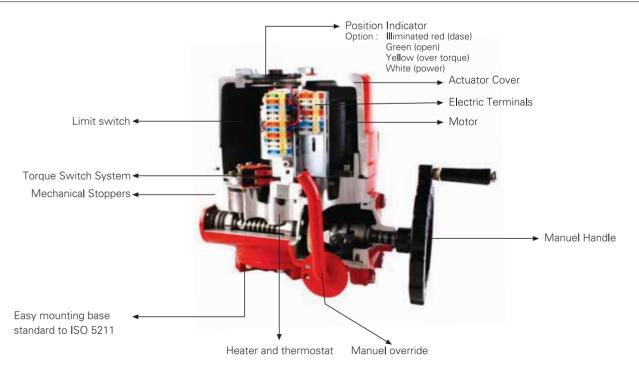
- Specially designed for quarter turn operating applications such as Ball, Butterfly, Plug valves, Dampers and similar usages.
- Its variation in wide range of output of torque control options fit your specific requirement. High grade aluminum alloy for housing provides compact and low weight
- High corrosion resistance due to hard anodizing on inside & outside and polyester coating on external surface.
- Various output torque from 40 Nm to 3000 Nm
- Rugged construction with o-ring system supplying water and explosion proof.
- Easy mounting base standard to ISO 5211 (F03/F05/F07)
- Handwheel for manual operation.
- Standard 4 limit switches
- Space heater with thermostat for preventing overheat.
- LED lamps on indicator monitoring valve position and operation (option).
- Long Life Cycle.

Option Features

- Proportional Control Unit(PCU), for REA Electric Actuators.
- Position Indication Unit (PIU) for REA Electric Actuators.
- Optional explosion proof/Eexd IIB T4, IP68
- Additional Torque switches (except for REA 80 and 100).
- 220 V AC / 110 V AC: for all REA Electric Actuators.
- 380 V AC / 440 V AC three-phase motor; for REA 80 and Upper Electric Actuators.
- 24 V DC: REA 40, 60, 80, 150, 200, 300 series.
- Duty Cycle: S2: %100 max. 30 min.; S4: %70-%100 300 ... 1600 hours
- Thanks to its battery, system can be controlled like a spring-return. REA 80,150, 200, 300 series.
- Smart type control unit: SICU (semi integral control unit), ICU (Intellligent Dijital Control Unit): REA 150 and upper series.



Construction of the Electric Actuator





REA 40 and REA 60 microsection



On-Off and Proportional Electric Actuator

REA 40 and REA60 Electric Actuator Standard Features:

Standard Features

Materials : Steel, aluminium alloy, al-bronze,

polycarbonate.

Torque Output : 40 NM ... 60Nm

Enclosure: Weatherproof enclosure IP67,

NEMA 4 and 6

Travel Angle : 90° ± 10° (0° ~ 110°)

Manuel Override : Declutching mechanism

(8 cycles open and close)

Power Supply : 220V AC, 1PH (on request

110V AC / 24 VCD), (0,4A ... 0,19A)

Motor : Squirrel caged inducation,

reversible

Limit Switches : 2 x open / close, SPDT, 250 V AC,

10A rating (on request additional

+2 switches)

Ambient Temp. : -20 °C ~ + 70 °C (except option

electronic board)

Cable Connection : 2 PG 13,5 fittings

Flange Connection : ISO 5211 standard (F03/F05/F07)

Open and Close Time: 12 - 14 seconds.

Option Specification: PCU Proportional control unit (input, output 4~20mA DC)





On-Off Electric Actuator

Proportional Electric Actuator



On-Off and Propontional Electric Actuator

REA 80 and REA1200 Electric Actuator Standard Features:

Standard Features

Materials : Steel, aluminium alloy, al-bronze, polycarbonate.

Torque Output : 80 NM ... 3000Nm

Enclosure: Weatherproof enclosure IP67, NEMA 4 and 6. space

heater 7~10W (110/220V AC) anti-condensation.

(Optional IP68)

Travel Angle : $90^{\circ} \pm 10^{\circ} (0^{\circ} \sim 110^{\circ})$

Manuel Override : Declutching mechanism located outside the body.

Power Supply : 220V AC, 1PH (on request 110/380/

440V AC three-phase circuit)

Motor : Squirrel caged inducation, reversible

Limit Switches : 2 x open / close, SPDT, 250 V AC, 10A rating

(on request additional +2 switches)

Torque Switch : Open / close, SPDT, 250 V AC,

Indicator 10A rating (except HQ-008 continuous position indicator)

Mechanical Stopper : 2 x external adjustable screws
Ambient Humidity : 90% RH Max. (non-condensing)

Ambient Temp. : -20 °C ~ + 70 °C (except option electronic board)

Cable Connection : 2 PG 13,5 fittings

Flange Connection : ISO 5211 standard (F03/F05/F07)

Open and Close Time: 13 - 37 seconds.



On-Off and Proportional Electric Actuator



RBP Electric Actuator Standard Features

REA B Series

- Rechargeable battery Backup electric motors is for emergency applications when power failed at site
- Battery support acts as spring-return
- In an emergency or power failure situation, valve can be opeated 5 times on-off
- For REA 80 ... REA 3000 series

Materials : Steel, aluminium alloy, al-bronze, polycarbonate.

Enclosure : Weatherproof enclosure IP67, NEMA 4 and 6. space heater 7~10W (110/220V AC) anti-condensation.

(Optional IP68)

Travel Angle : $90^{\circ} \pm 10^{\circ} (0^{\circ} \sim 110^{\circ})$

Manuel Override : Declutching mechanism located outside the body.
Power Supply : 220V AC 1PH (on request 110/380/ 440V AC

three-phase circuit)

Motor : Squirrel caged inducation, reversible

Limit Switch : 2 x open / close, SPDT, 250 V AC 10A rating

(on request additional +2 switches)

Torque Switch : Open / close, SPDT, 250 V AC, 10A rating Indicator (except HQ-008) continuous position indicator

Mechanical Stopper : 2 x external adjustable screws
Ambient Humidity : 90% RH Max. (non-condensing)

Ambient Temp. : $-20 \,^{\circ}\text{C} \sim + 70 \,^{\circ}\text{C}$ (except option electronic board)

Cable Connection : 2 PG 13,5 fittings

Flange Connection : ISO 5211 standard (F03/F05/F07)

Open and Close Time: 13 - 37 seconds.

Rechargeable Battery Backup Electric Actuator

Control Unit Electric Actuator

- Applied with REA 150 ... 3000 series
- 110 V AC / 220 V AC mono-phase application
- 220 V AC / 460 V AC three-phase application
- Phase protect monitoring by LED in case of wrong wiring
- Working led on SICU panel on actuator for monitoring on-off and failure mode.

Materials : Steel, aluminium alloy, al-bronze,

polycarbonate.

Enclosure : Weatherproof enclosure IP67,

NEMA 4 and 6, space heater 7~10W

(110/220V AC) anti-condensation.

Manuel Override : Declutching mechanism located

outside the body.

Power Supply : 220V AC 1PH (on request 110/380/

440V AC three-phase circuit)

Motor : Squirrel caged inducation, reversible

Limit Switch : 2 x open / close, SPDT, 250 V AC, 10A rating

(on request additional +2 switches)

Torque Switch : Open / close, SPDT, 250 V AC,

Indicator 10A rating (except HQ-008) continuous position indicator

Flange Connection : ISO 5211 standard (F03/F05/F07)

Open and Close Time: 13 - 37 seconds.



SICU Electric Actuator



SICU Series

Electric Actuated Butterfly Valve



SICU Semi-İntegral Control Unit

ORK

ICU Series

Intelligent Digital Control Unit

- Applied with REA 150 ... 3000 series
- 220 V AC / 460 V AC three-phase application
- Light compact & intergrated design
- Built in auto phase discriminator (Easy & Convenient Wiring)
- Reliable against water, vibration, temperature etc.
- RS485 communication connection
- Automatic phase distribution
- Working led on ICU panel monitoring on-off and failure mode, with RS485 cable can be connected to the laptop.



polycarbonate.

Enclosure : Weatherproof enclosure IP67,

NEMA 4 and 6, space heater 7 ~10W

(110/220V AC) anti-condensation.

Manuel Override : Declutching mechanism located

outside the body.

Power Supply : 220V AC, 1PH (on request 110/380/

440V AC three-phase circuit)

Motor : Squirrel caged inducation, reversible

Limit Switch : 2 x open / close, SPDT, 250 V AC,

10A rating (on request additional +2 switches)

Torque Switch

: Open / close, SPDT, 250 V AC, Indicator

10A rating (except REA 80)

continuous position indicator

Open and Close Time: 13-37 seconds.



Electric Actuated Butterfly Valve



REA Actuators



Control Unit



EAV 901 Series / 902 Series

Electric Actuator Features

Control Type : On-off (optional proportional)

Electric Actuated Stainless Steel Ball Valves

Power Supply : 220 V AC, 50 Hz (Optional 110 V AC, 24 V DC)

On-Off Time :13 / 14 sn. **Output Torque** : 40 Nm, 60 Nm

Enclosure :IP67

Ambient Temp. :-20 ... 140°C / 180°C

Optional : Local control unit, PCI, position transmitter,

proportional unit can be added.

Ball Valve Features

: Full bore, AISI 316 stainless steel, 3 pieces. **Body** Port : 2/2 way, 3/2 ways assemblied on both position.

Seal : PTFE

: High / low pressure Pressure

Operating Pressure: PN 40 bar (1/2" ... 11/4"), 16 bar (11/2"... 3")

Operating Temp. : -20 ... 140°C / 180°C

: All valves are tested at 20 bar for 48 hours Test

* On request 2 pieces ball valve



EAV 901, 2/2 way



EAV 902, 3/2 way



Electric Actuated Brass Ball Valves

EAV 903 Series / 904 Series

Electric Actuator Features

Control Type : On-off (Optional proportional)

Power Supply : 220 V AC, 50 Hz (Optional 110 V AC, 24 V DC)

On-Off Time : 13 / 14 sn Output Torque : 40 Nm, 60 Nm

Enclosure : IP67

Optional : Local Control Unit, PCI, position transmitter,

proportional unit can be added.



EAV 903, 2/2 way

Ball Valve Features

Body : Full bore, brass

Port : 2/2 way, 3 ways assemblied on both position.

Seal : PTFE

Pressure : High / low pressures

Operating Pressure: PN 40 bar (1/2"...11/4"), 16 bar (11/2"...3")

Operating Temp. : -20....130°C

Test : All valves are tested at 20 bar for 48 hours.



EAV 904, 3/2 way

Electric Actuated PVC Ball Valves

EAV 912 Series

Electric Actuator Features

Control Type : On-off (optional proportional)

Power Supply : 220 V AC, 50 Hz (Optional 110 V AC, 24 V DC

On-Off Time : 13 / 14 sn Output Torque : 40 Nm, 60 Nm

Enclosure : IP67

Optional : Local control unit, PCI, position transmitter,

proportional unit can be added.



EAV 912 Series, 2/2 way

Butterfly Valve Features

Body : Full bore, PP body (suitable for water and acid)
Port : 2/2 way, 3/2 ways assemblied on both position.

Seal : EPDM and VITON
Operating Pressure : PN 10 and PN 16
Operating Temp. : 20°C ... 80 °C

Test : All valves are tested at 20 bar for 48 hours



EAV 912 Series, 3/2 way



Electric Actuated Flanged Ball Valves (Carbon Steel, Stainless Steel, Cast Iron Body)

Electric Actuator Features

Control Type : On-off (Optional proportional)

Power Supply : 220 V AC, 50 Hz (Optional 110 V AC, 24 V DC)

380 V AC, three-phase

On-Off Time : 13 / 14 / 25 / 31 / 37 / 93 sn
Output Torque : 40 Nm, 60 Nm ... 3000 Nm
Enclosure : IP67 (on request IP68, exproof)

Optional : Local Control Unit, PCI, position transmitter,

proportional unit can be added.

Ball Valve Features

Body : Full bore, stainless steel, carbon steel and cast iron Port : 2/2 way, 3 ways assemblied on both position.

Seal : PTFE

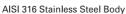
Pressure : High / low pressures

Operating Pressure: PN 40 bar (1/2"..11/4"), 16 bar (11/2"...3")

Operating Temp. : -20....140/180°C

Test : All valves are tested at 20 bar for 48 hours.







Plug Valve



3/2 way carbon steel body



EAV 907, Cast Iron



EAV 907 (Natural Gas, LPG)

Electric Actuated Butterfly Valve (Stainless Steel Body)

EAV 800 Series

Electric Actuator Features

Control Type : On-off (optional proportional)

Power Supply : 220 V AC, 50 Hz (Optional 110 V AC, 24 V DC

380 V AC three-phase)

On-Off Time : 13 / 14 / 25 / 31 / 37 / 93 sn
Output Torque : 40 Nm, 60 Nm ... 3000 Nm
Enclosure : IP67 (on request IP68, exproof)

Ambient Temp. :-20°C...70°C (on request 250°C, exproof)
Optional : Local control unit, PCI, position transmitter,

proportional unit can be added.



Electric Actuated Butterfly Valves

Butterfly Valve Features

Body : GG 25 epoxy coated

Optional: Rilsan coated, stainless steel body

Disc : GGG 50 epoxy coated

Optional: Rilsan coated

On request: 304-316 stainless steel

Seal : EPDM (-30...130°C) or NBR (-30....90°C), PTFE, VITON

Optional: PTFE, viton, silicone

Operating Pressure : PN 6 (optional: PN 10, PN 16)

Operating Temp. : EPDM (-30...130°C), or NBR seal(-30....90°C)

Stem : AISI 420 stainless steel



all over the world...



Solenoid Valves









Limit Switch Boxes













SMS INDUSTRIAL CONTROL VALVES CO.