



"Fluid Under Control"



## ELECTRIC ACTUATORS

on-off and proportional  
control of Baly Valves  
Butterfly Valves  
Dampers



## 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.



REA 40



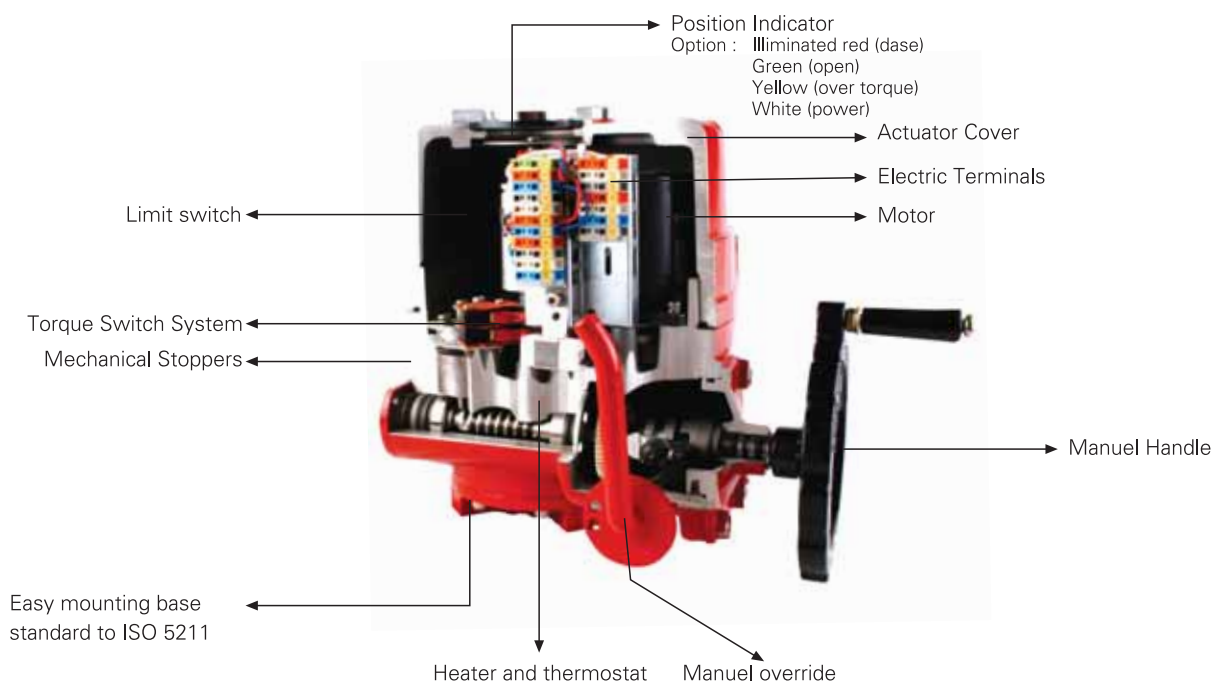
REA 60 microsection

## 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 / 24 V AC: 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 (Intelligent Dijital Control Unit ): REA 150 and upper series.
- Staying under water 72 hour (max. 10 m)

## REA80 ... REA3000 Series

## Construction of the Electric Actuator



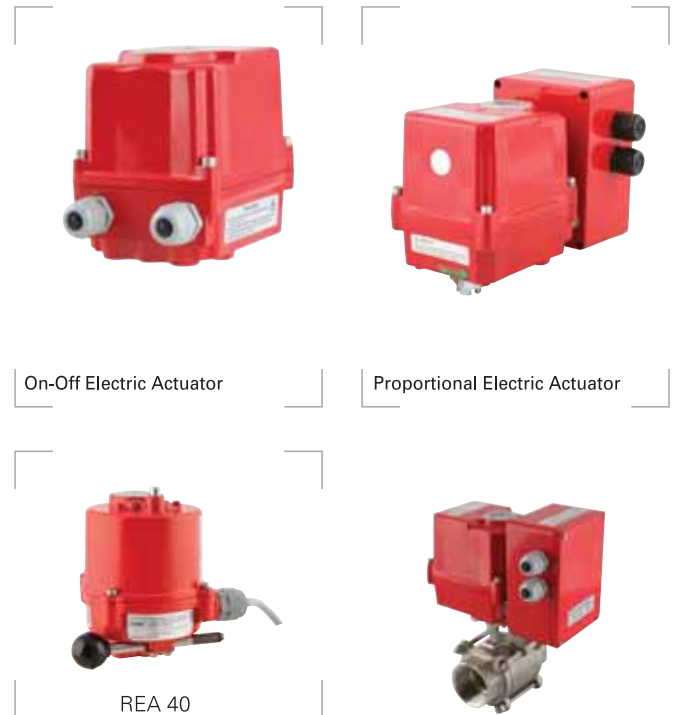
## On-Off and Proportional Electric Actuator

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** :  $90^\circ \pm 10^\circ$  ( $0^\circ \sim 110^\circ$ )
- 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 induction, reversible
- Limit Switches** : 2 x open / close, SPDT, 250 V AC, 10A rating (on request additional +2 switches)
- 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** : 12 - 14 seconds.

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



## 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 induction, 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, 10A rating (except HQ-008 continuous position indicator)
- 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.** :  $-20^\circ\text{C} \sim +70^\circ\text{C}$  (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.



## 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 operated 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° ± 10° (0° ~ 110°)
- 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 induction, 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 °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.

## Control Unit Electric Actuator

SICU Series

- 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 induction, 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 (except HQ-008) continuous position indicator
- Flange Connection** : ISO 5211 standard (F03/F05/F07)
- Open and Close Time** : 13 - 37 seconds.



## Linear Electric Actuators

for globe valves



- Materials** : Aluminium alloy, electrostatic polyester coated
- 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** : 220 V AC, (on request 110 V AC and 380V, 440V AC three-phase circuit)

Model	Spindle Speed (mm/sec)	Torque Value
LEA 50	0.44/0.53	5 KN
LEA 70	0.44/0.53	7 KN
LEA 100	0.69/0.82	10 KN
LEA 120	0.69/0.82	12 KN
LEA 150	0.69/0.82	15 KN
LEA 180	0.69/0.83	18 KN
LEA 200	0.69/0.83	20 KN
LEA 250	0.69/0.83	25 KN



## Intelligent Digital Control Unit

ICU Series

- 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.

- 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 induction, reversible
- Limit Switch** : 2 x open / close, SPDT, 250 V AC, 10A rating (on request additional +2 switches)
- Torque Switch Indicator** : Open / close, SPDT, 250 V AC, 10A rating (except REA 80) continuous position indicator
- Open and Close Time** : 13 - 37 seconds.



Electric Actuated Butterfly Valve



REA Actuators



Control Unit



Control Unit Actuator Electric Terminal

## Electric Actuated Stainless Steel Ball Valves

EAV 901 Series / 902 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
- Ambient Temp.** : -20 ... 70°C
- Optional** : Local control unit, PCI, position transmitter, proportional unit can be added.

### Ball Valve Features

- Body** : Full bore, AISI 316 stainless steel, 3 pieces.
- Port** : 2/2 way, 3/2 ways assembled on both position.
- Seal** : PTFE
- Pressure** : High / low pressure
- Operating Pressure** : PN 40 bar (1/2" ... 1 1/4"), 16 bar (1 1/2" ... 3")
- Operating Temp.** : -20 ... 70°C
- Test** : All valves are tested at 20 bar for 48 hours  
\* On request 2 pieces ball valve



EAV 903, 2/2 way



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
Ambient Temp.	: -20 ... 70°C
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 assembled on both position.
Seal	: PTFE
Pressure	: High / low pressures
Operating Pressure	: PN 40 bar (1/2"..1 1/4"), 16 bar (1 1/2"..."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 913 / 914 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
Ambient Temp.	: -20 ... 70°C
Optional	: Local control unit, PCI, position transmitter, proportional unit can be added.



EAV 913 Series, 2/2 way

### Butterfly Valve Features

Body	: Full bore, PP body (suitable for water and acid)
Port	: 2/2 way, 3/2 ways assembled 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 914 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)
- Ambient Temp. : -20 ... 70°C (On request 250°C, 1050°C)
- 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 assembled on both position.
- Seal : PTFE
- Pressure : High / low pressures
- Operating Pressure : PN 40 bar (1/2"..1 1/4"), 16 bar (1 1/2"..."3")
- Operating Temp. : -20....140/180°C
- Test : All valves are tested at 20 bar for 48 hours.



EAV 907, Cast Iron



EAV 907 (Natural Gas, LPG)



3/2 way carbon steel body



AISI 316 Stainless Steel Body



Plug Valve

## 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

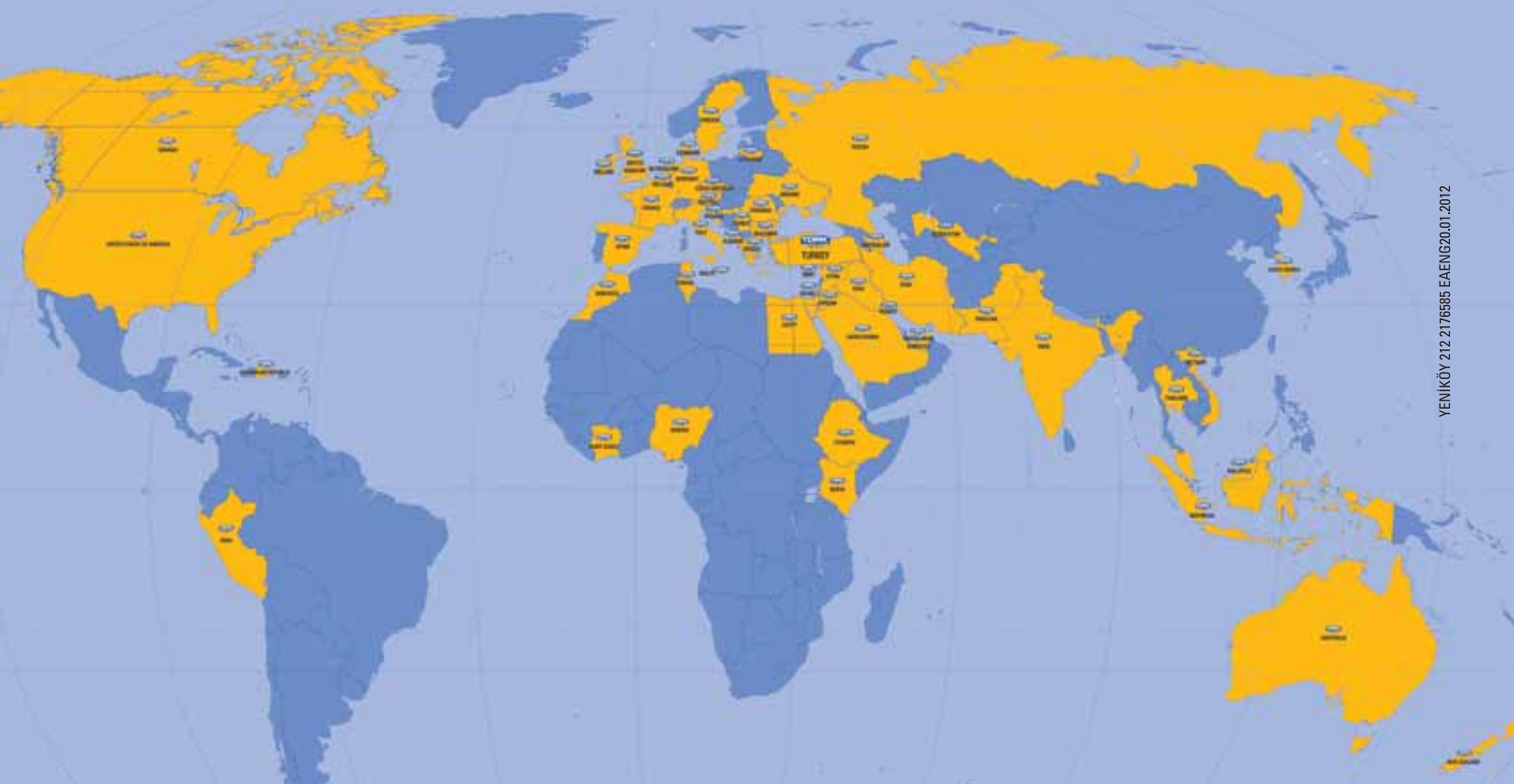
### Butterfly Valve Features

- 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



EAV 800  
Electric Actuated Butterfly Valves

all over the world...



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Solenoid Valf



Prömatik Aktüatör



Prömatik Piston Vana



Limit Switch Kutusu



Prömatik Aktüatörlü Vana



Elektrik aktüatörlü Vana



Debi Ölçü Kontrol



Basınç Ölçü Kontrol



Seviye Ölçü Kontrol



Sıcaklık Ölçü Kontrol

