

Type ER Plus

Electric actuator

Summary



 Technical description 	p.2
• Technical informations	p.3
• Overall dimensions	p.4
Range of options	p.5-

Description

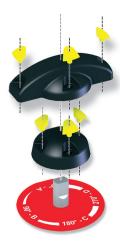
ER Plus provides you with the best for valve actuation: Electric actuator Type ER plus, compact design with IP66 protection and UL 94 VO flammability class, modular position indicator and secured manual override; modular range of options (Transmitter, potentiometer, extra limit switch cards), Failsafe version, which ensures return to initial position in case of power failure, and Posi version, CE Marking.

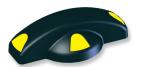


Type ER plus

Technical description

- Compact design with IP66 protection and UL94V0 flammability class housing.
- Integrated anti-condensation heater.
- Torque limiter monitored by software.
- Motor condition feedback relay (normal duty, failure).
- RS485 connection to enable remote control (on request).
- Modular position indicator.
- Secured manual override.
- Guaranteed 50 000 actuations or 2 years*.
- Up to 150 starts/Hour.**
- In accordance with CE standards.
- Compliance with RoHs and REACH.
- Pulse control (500ms) on request.
- * Tested on testing bench in the worst conditions (maximal torque & duty rating)
- ** Recommended use, see instructions notice.





Handle with visual Indicator for ER10-20



Visual Indicator for ER35-60-100

- **Modular position indicator** with 3 removable position markers, adjustable according to the type of valve to be actuated.
- Different possible rotation angles
 - 4 adjustable limit switches, 2 for motor controls, 2 auxiliaries for feedback signal
- Mechanical travel stops at 90°C (180° or 270° without mechanical stops
- Duty rating S4 50% (IEC 34 standard)
- **Self regulated anti-condensation heater:** the heater inside the actuator are anti-condensation systems to avoid the dew point. They prevent from corrosion which would result from excessive humidity inside the housing of the actuator. No additional wiring is required as the heaters are part of the electronic board. The use of the heaters is recommended for outside installation, unfriendly environment and for the refrigeration applications.
- Standardized ISO 5211 connection:

Removable adaptation plates (ER10-20-35 = F03-F04-F05) ISO 5211 plate with double connection (ER35-60-100 = F05-F07) Removable stainless steel drive nut sleeves (Star -square - DD) Other drive nut sleeves available on request.

Type ER plus

Technical informations



- From 10 to 100 Nm.
- Operating time: from 7s to 119s.
- Duty rating S4 50% (IEC34 standard).
- On-Off or 3 modulating points control.
- Standardized ISO5211 connection.
- IP 66 protection.
- Modular position indicator (with handle for type ER10-20)
- Actuator based on a direct current technology monitored by electronic card (choice of 2 cards):

Either 15V to 30V AC (50/60Hz) or 12V to 48V DC Either 90V to 240V AC (50/60Hz) or 90V to 350V DC

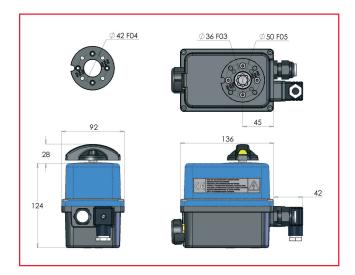
- Torque limiter monitored by software
- Declutching system for secured manual override
- Manual override
- Mechanical travel stops
- Different possible rotation angles
- Version with Failsafe security unit which ensures return to initial position in case of power failure.
- Posi version: advanced and user friendly positionning solution
- Options: feedback potentiometer, transmitter, third position card, handle for manual override, two extra limit switches card ...
- CE marking
- EMC conformity EN61000-6-4 (2007), EN61000-6-2 (2005)
- Low voltage Directive EN61010-1 (2001)
- IP 66 housing tested according to CEI60529 (2001) and NF EN 60529 (2000)
- Equipment European Directive (security machine) (2006/42/CE) as component.
- For applications with vibrations (on request), specific electronic cards according to IEC60068-2-6 (2007) and IEC60068-2-17 (2008)

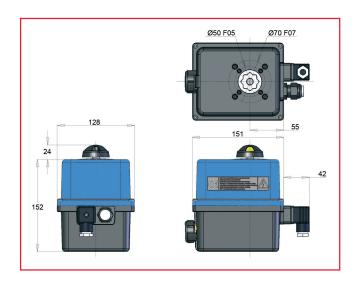


Type ER plus

Overall dimensions

		ER10	ER20	ER35	ER35	ER60	ER100		
TORQUES (Nm)		10	20	35	35	60	100		
VOLTAGE		15V to 30V 50/60Hz (12V to 48V DC 90V to V 240V 50/60Hz (90V to 350V DC)							
OPERATING TIME (sc)	ER Plus standard & Failsafe	11	12	26	7	12	23		
	ER Plus slow	-	-	-	40	79	119		
	ER Plus Posi	-	25	-	41	79	119		
POWER		15W			45W				
STARE DRIVE NUT		14mm -Depth. 16mm			22mm-Depth.24mm				
ISO FLANGE		F03-F04-F05-Depth. 14mm			F05-F07-Depth.16mm				
LIMIT SWITCHES		4							
ROTATION ANGLES		0°-90° (0°-180° or 0°-270°)							
DUTY RATING		50%							
NUMBER OF STARTS/HOUR		150							
PROTECTION		IP66							
TEMPERATURE		-10°C up to +55°C (Failsafe : 10°C up to 40°C)							
WEIGHT (min/max)		1 kg/1,340Kg 2,800kg/3,140Kg					Kg		







Type ER plus

Range of options

FAILSAFE versions

Version with integrated Failsafe security unit which ensures return to initial position in case of power failure:

- All in one option: no additional wiring required
- Cost effective
- Battery gauge
- Power shut off after 2 mn to avoid battery discharging
- Quick and easy replacement of the battery
- 2 initial position settings: normally open / normally closed



POSI versions

- Microprocessor base
- Secured process (memorization loops)
- Self configurable (0-20mA/4-20mA/0-10V)
- Reversible (Example: 20-4mA)
- Training mode
- Electronic torque limiter
- Up to 180° or 270° travel (on request)





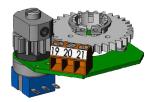
Type ER plus

Range of options

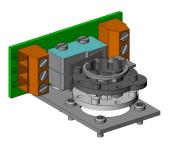
EPT.C - Transmitter: 0-20mA/4-20mA /0-10V



EPR.B - Feedback potentiometer



EFC2 - 2 Additional limit switches cards



ERP - Handle for manual override



Other options:

ECD: DIN43650 3P+T connectors EFT.3 Third position card

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