ELECTRIC ACT. ER-E EQ SERIES

MODEL: **ER-E**



MODEL: **EQ**



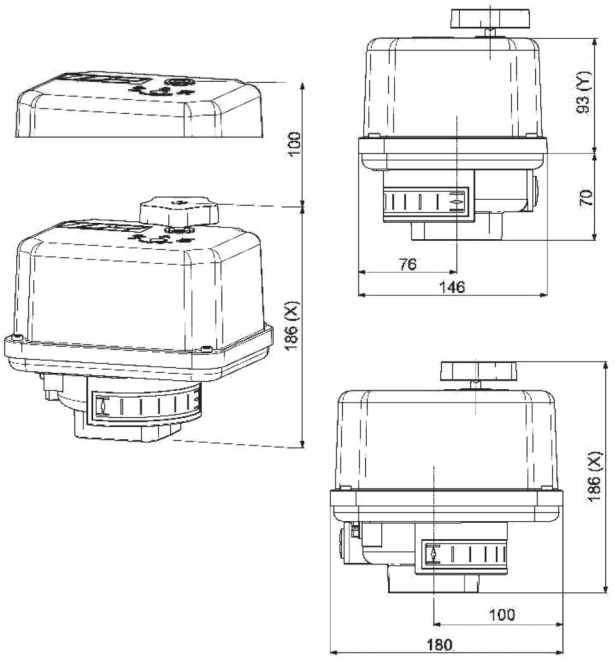
GENERAL APPLICATIONS

The actuator is suitable for industrial and heating plants; it can be used with 2/3-way ball valves and butterfly valves.

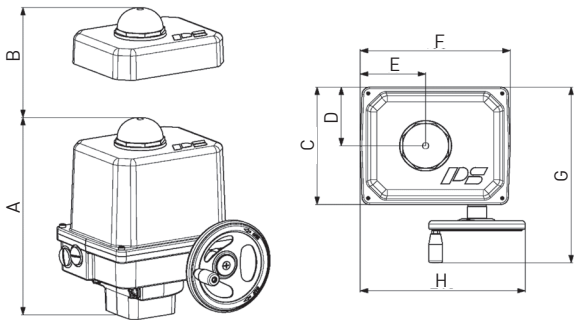
OPERATION: ER-E/EQ actuators are designed to electrically control 90° angular travel valves. ER-E/EQ actuators have a mechanical interface for valve connection in compliance with ISO 5211.
The 90° travel can be mechanically adjusted by means of two end-of-stroke screws with ± 5° tolerance.
The angular travel is limited in both directions by two adjustable electric switches that cut the power supply or the control circuit when the set travel is reached.
The hand-wheel helps easy operation of the valve in emergency situations.
The hand-wheel does not turn when the motor is started but is always ready for use.
The electric connection is made on a terminal block inside the actuator.

MATERIALS:	
BODY	DIE-CAST ALUMINIUM
COVER	EQ DIE-CAST ALUMINIUM
COVER	ER-E POLYCARBONATE
CAMS	POLYAMIDE
SHAPT	STAINLESS STEEL

SIZE/inch. ER-E	25	50

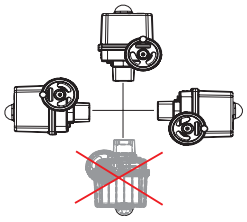


SIZE/inch. EQ	103	203	503	703	1003	15003



ACTUATOR	A	B	C	D	E	F	G	H
103	11.26	6.34	6.22	3.11	3.35	7.72	9.29	8.50
203	13.98	8.98	7.28	3.66	3.78	8.90	12.09	10.87
503	15.98	9.45	9.21	4.29	4.49	10.94	11.30	12.72
703	15.98	9.45	9.21	4.29	4.49	10.94	11.30	12.72
1003	16.10	9.45	9.21	4.29	4.49	10.94	10.83	13.70
1503	16.10	9.45	9.21	4.29	4.49	10.94	10.83	13.70

Mounting positions



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UNI EN ISO 9001: 2015
ISO 14001:2015

TECHNICAL FEATURES AND ACCESSORIES FOR EFFEBI ER-E/EQ ACTUATORS

ACTUATOR MODEL		ER-E 25			ER-E 50			EQ 103			EQ 203			EQ 503			EQ 703			EQ 1003			EQ 1503		
VOLTAGE (V) AC 50 Hz / 60 Hz		115	230	24	115	230	24		230	400	115	230	400	115	230	400	115	230	400	115	230	400	115	230	400
OPERATION TIME (60 Hz on request)	(sec.)	17	17	17	33	33	33	32	32	32	69	69	69	93	93	93	93	93	93	93	93	93	75	75	80
ON-OFF MAX COUPLE	Lbf/in	221			442			1150			2212			4425			6195			8850			13275		
MODULATION MAX. COUPLE	Lbf/in	115			221			575			1106			212			3097			4425			6195		
PROTECTION DEGREE		IP65			IP65			IP67			IP67			IP67			IP67			IP67			IP67		
STANDARD ROTATION		90°			90°			90°			90°			90°			90°			90°			90°		
EMERGENCY MANUAL CONTROL		YES			YES			YES			YES			YES			YES			YES			YES		
POSITION INDICATOR		YES			YES			YES			YES			YES			YES			YES			YES		
ISO 5211 STANDARD		F04/F07 or F5/F07			F04/F07 or F5/F07			F05/F07			F07/F10			F10 or F12			F10 or F12			F12 or F14			F12 or F14 or F16		
2 TORQUE LIMITERS		NOTE			NOTE			YES			YES			YES			YES			YES			YES		
2 MECHANICAL LIMIT SWITCHES		1			1			YES			YES			YES			YES			YES			YES		
2 ELECTRIC MOTOR PROTECTION LIMIT SWITCHES		YES			YES			YES			YES			YES			YES			YES			YES		
OPERATION TEMPERATURE F°		-13 °F+158 °F			-13 °F+158 °F			-4 °F+176 °F			-4 °F+176 °F			-4 °F+176 °F			-4 °F+176 °F			-4 °F+176 °F			-4 °F+176 °F		
WEIGHT Lbf		5.51			5.51			16.72			24.47			59.52			59.52			59.52			59.52		
NOTE: without torque limiters but with synchronous motor which stalls								ACTUATORS HAVE NO ATEX CERTIFICATION																	

AVAILABLE ACCESSORIES

ACCESSORIES	
Loose Act. With Non Machined Bushing	
Bushing Machining	
2 Additional Limit Switches	2WE
2 Additional Torque Limiters	2DE
Anti-condensation Resistor 8w	HR

ACCESSORIES	
4-20 mA 0-10 V Positioner	PSAP.2A/PSAP.3
Position Transmitter	PSPT02
Potentiometer	PD210
Double Potentiometer	DP2 210
Remote Control Switches	

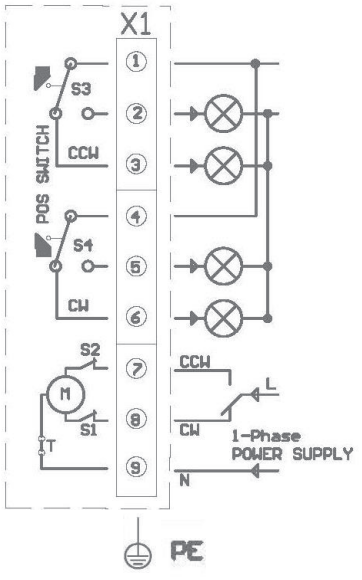
If the positioner or the position transmitter are required, the PD2 210 double potentiometer must be installed. Positioner: if required with three-phase actuators, a remote control switch must be installed.

ER-E DIAGRAM WIRING

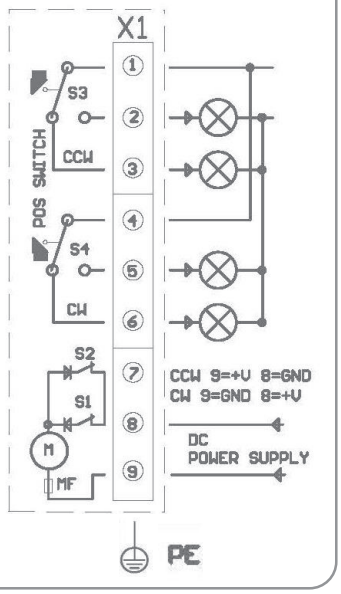
WIRING DIAGRAM

The figures show the wiring diagrams for standard actuators. Refer to the wiring diagram inside the actuator's cover for actuator connections. For accessories, refer to the connection diagram supplied with the related documents.

230 V, 115 V, 24 V AC supply

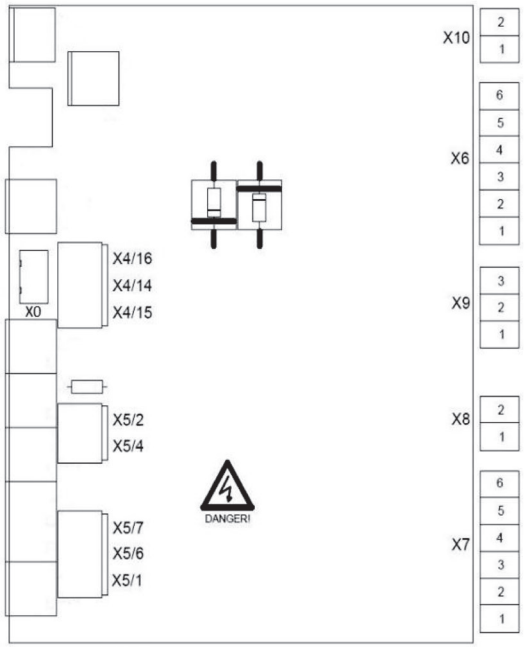


24 V DC supply



EQ DIAGRAM WIRING

Wiring terminals 1~



Wiring terminals 3~

