Proudly Made in Türkiye

E & ICU+ Series

Modulating Type
Multi-Turn Electric Actuators



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Focus Integral Control Units

ICU+®
Modulating Type **I**ntegral **C**ontrol **U**nit **+** LCD Display

Thanks to the LCD screen on the actuator, all information is accessible and controllable through buttons. The screen displays details regarding On-Off limit and On-Off torque signals. Additionally, LED lamps accompany the display to indicate information. The Remote-Local switch facilitates changing the control location. The actuator's position is presented as a percentage on the LCD screen along with menu options, all in English. It ensures security against unauthorized access without the necessity of a padlock, preventing interventions or adjustments to settings like the cover or switch without disassembly or a wrench; these changes can be accomplished directly through the LCD screen.

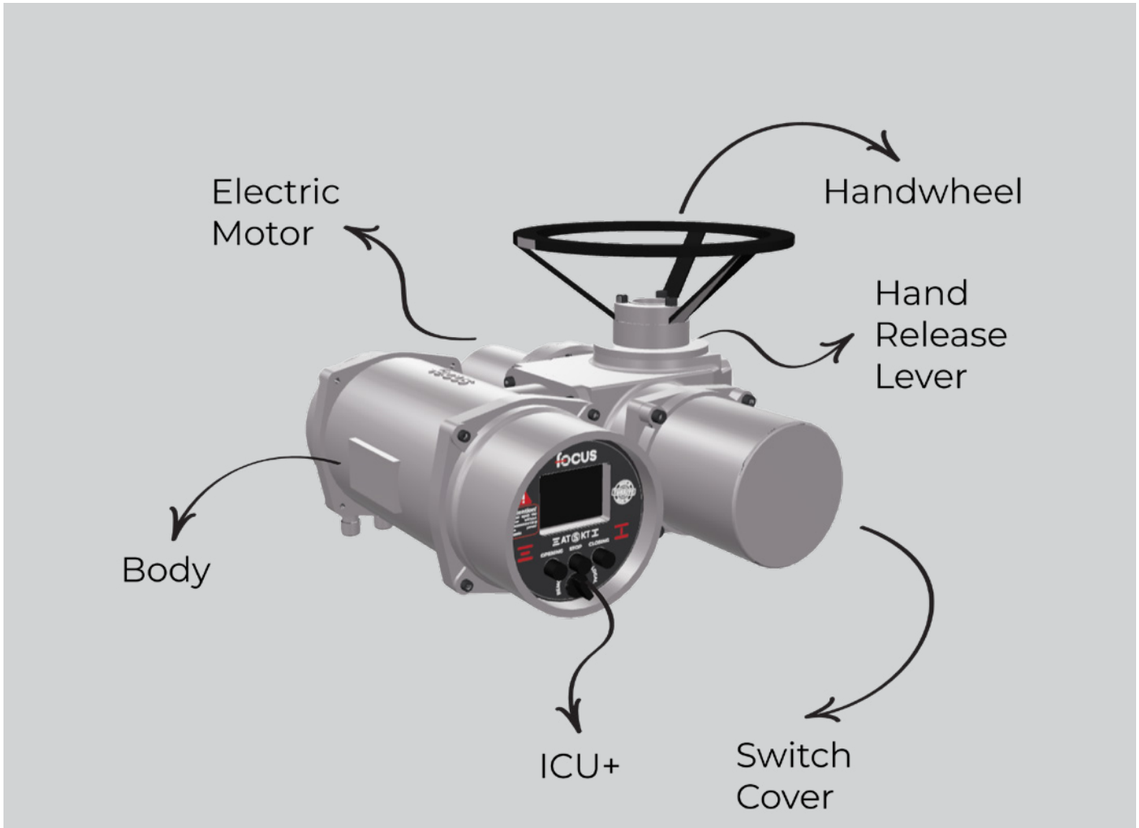
The ICU+ development focused significantly on user-friendliness and streamlined integration of actuators into the DCS.

ICU+ controls provide an ideal solution for applications requiring adaptable control functions, data capture, customizable interfaces, or integration of valves and actuators into a End user's Plant Asset Management System, benefiting from advanced diagnostic capabilities. These controls come equipped with a versatile interface for flexible configuration and connections to fieldbus systems commonly employed in process automation (Upon request).

The diagnostic features encompass a time-stamped event log, logging of torque characteristics, continual monitoring of actuator temperatures and vibrations, along with tracking start counts and motor run times.







FOCUS LIMITOR E Series & ICU+
Modulating Multi-Turn Electric Actuator

General Features

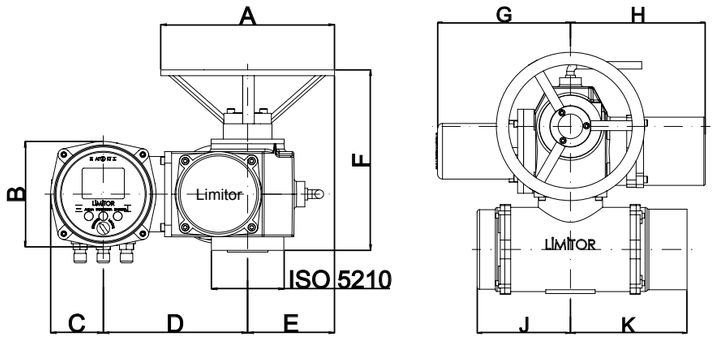
- Working Principle: Modulating Multi-Turn
- LCD Screen
- Operation: Integral control Unit (Local) or Remote
- Output Speed: 24-72 RPM
- Torque Range: 60-500 Nm
- Voltage: 220-400 VAC
- Motor: S4-25%
- Main Pin connector
- Motor connection pin connector
- Actuator-Control Unit pin connector
- Motor Power: 0,37-2,2 Kw
- Position Control: Limit & Torque Switches
- Protection: IP68
- Indicator: LCD on ICU+
- Limit & Torque switches
- 3-ph AC type motors
- 1-ph 220 VAC or 3-ph 400 VAC
- Auto-lock system
- Pin connector

Alternative Features (Options)

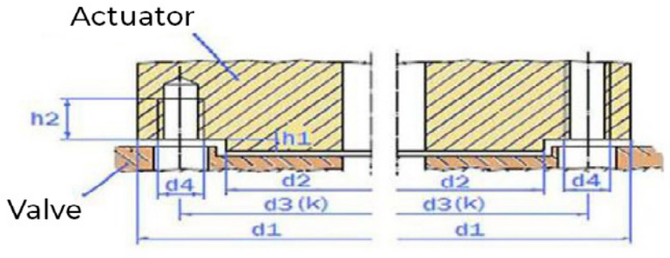
- 4-20 mA Transmitter option
- 4-20 mA Positioner option
- Mechanical position indicator
- Non-Instructive switch option
- Wall mounting bracket
- Modbus
- Profibus

General Dimensions

E Series

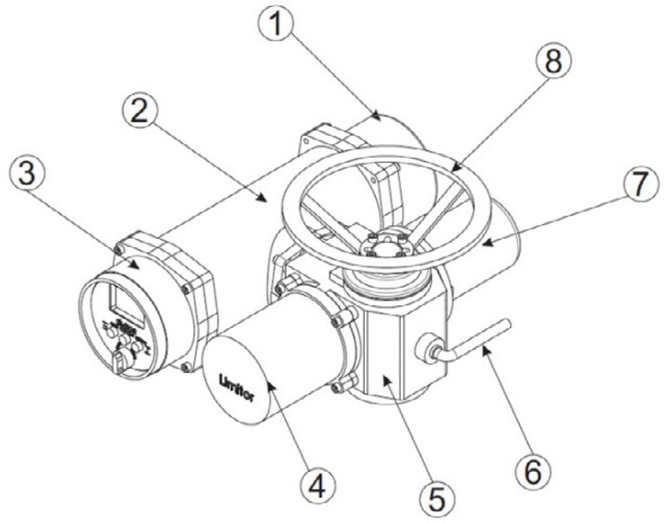


Actuator Type	A	B	C	D	E	F	G	H	J	K	Output Speed	Torque (Nm)	Voltage (VAC)	Motor (Kw)	Flange Connection
E60	300	217	90	255	255	300	275	150	290	280	24 Rpm	60	220-380	0,37	ISO 5210 F10
E80	300	217	90	255	255	300	280	150	290	280	24 Rpm	80	220-380	0,55	ISO 5210 F10
E120	300	217	90	255	255	300	290	150	290	280	24 Rpm	120	220-380	0,75	ISO 5210 F10
E250	550	180	90	263	275	380	445	294	290	280	36 Rpm	250	220-380	1,1	ISO 5210 F14
E300	550	180	90	263	275	380	475	294	290	280	37 Rpm	300	220-380	1,5	ISO 5210 F14
E350	550	180	90	263	275	380	490	294	290	280	38 Rpm	350	220-380	2,2	ISO 5210 F14



Flange Connection Dimension	Flange Connection Dimension	d1	d2	d3	h1 max	# of Bolts	Bolt Dimension
F10	100	125	70	102	3	4	M10
F14	400	175	100	140	4	4	M16
F16		210	130	165	5	4	M20

Material List

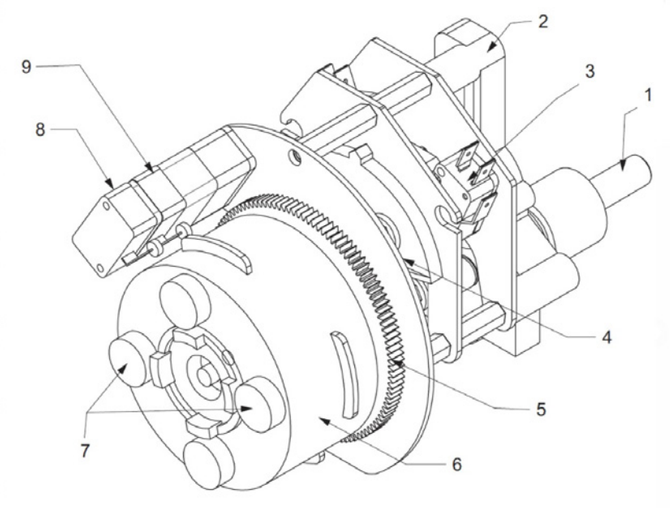


Main Components

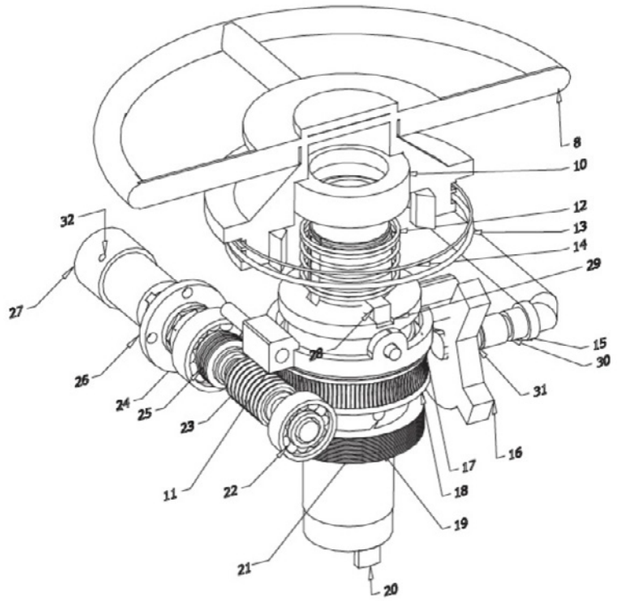
Part Number	Description
1	Pin Connecters
2	Control Device
3	Indicator & Local control cover
4	Switch Group Cover
5	Body
6	Release Lever
7	Electric Motor
8	Handwheel

Switch Group

Part Number	Description
1	Switch Stem
2	Switch chassis
3	Torque Switches
4	Torque Switches Configura-tions mechanism
5	Switch Gear
6	Switch Module
7	Switch control mechanism
8	Close Switch
9	Open Switch



Material List

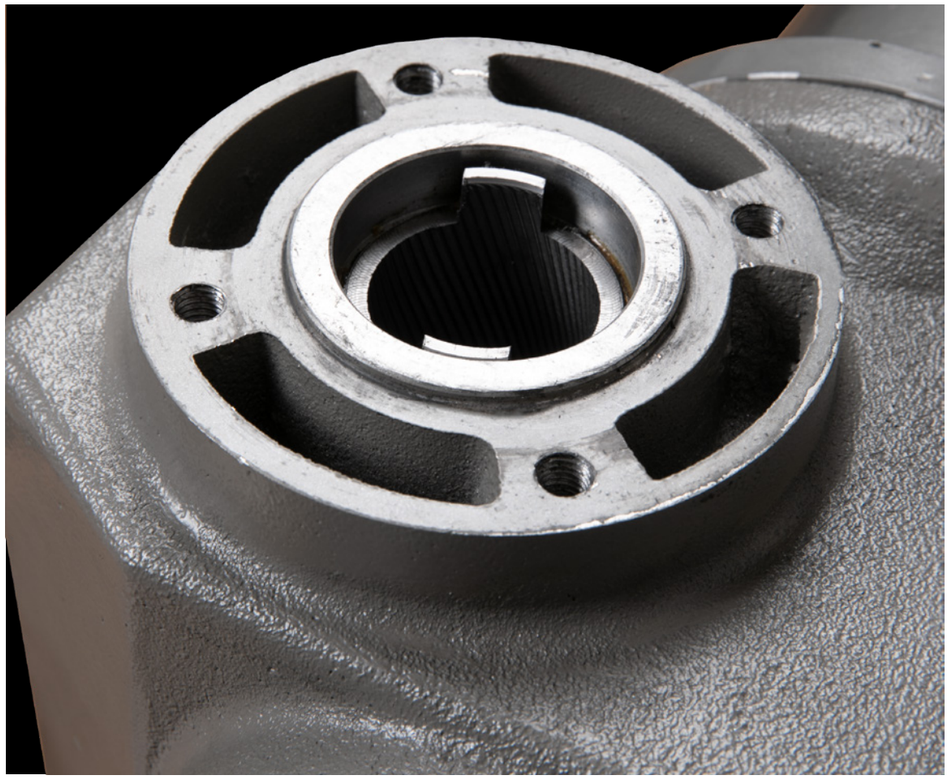


Gear Machanism

Part Number	Description	Part Number	Description
8	Handwheel	21	Setscrew
9	Handwheel Bushing	22	6201 Steel Balls
10	Sealing Ring	23	Worm Screw
11	Crank cotter pin	24	6202 Steel Balls
12	Spring	25	Torque Springs
13	Retaining ring	26	Sealing Flange
14	O-Ring	27	Sealing Ring
15	Motor manual lever	28	Motor connection coupling
16	Cam	29	Key
17	Release fork	30	Coupler
18	Worm Gear	31	Lever O-Ring
19	Counter Screw	32	Lever ring
20	Main stem	33	Motor Coupling setscrew

Focus Actuators

Flange Dimensions



Model	Valve Stem Diameter (mm)	Penstock Shaft Diameter (Tr)	Connection Flange ISO 5210
E60	Max. 25mm	Max. 40mm	F10
E80	Max. 25mm	Max. 40mm	F10
E120	Max. 25mm	Max. 40mm	F10
E250	Max. 35mm	Max. 50mm	F14
E300	Max. 35mm	Max. 50mm	F14
E350	Max. 35mm	Max. 50mm	F14
E60+R2	Max. 50mm	Max. 55mm	F14
E250+R4	Max. 70mm	Max. 70mm	F16
K	Max 25x25mm or ø 25mm		F05-F07