focus

Proudly Made in Türkiye

E & ICU Series

On / Off
Multi Turn Electric Actuators



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Focus Integral Control Units

ICU®

On/Off Type **I**ntegral **C**ontrol **U**nit

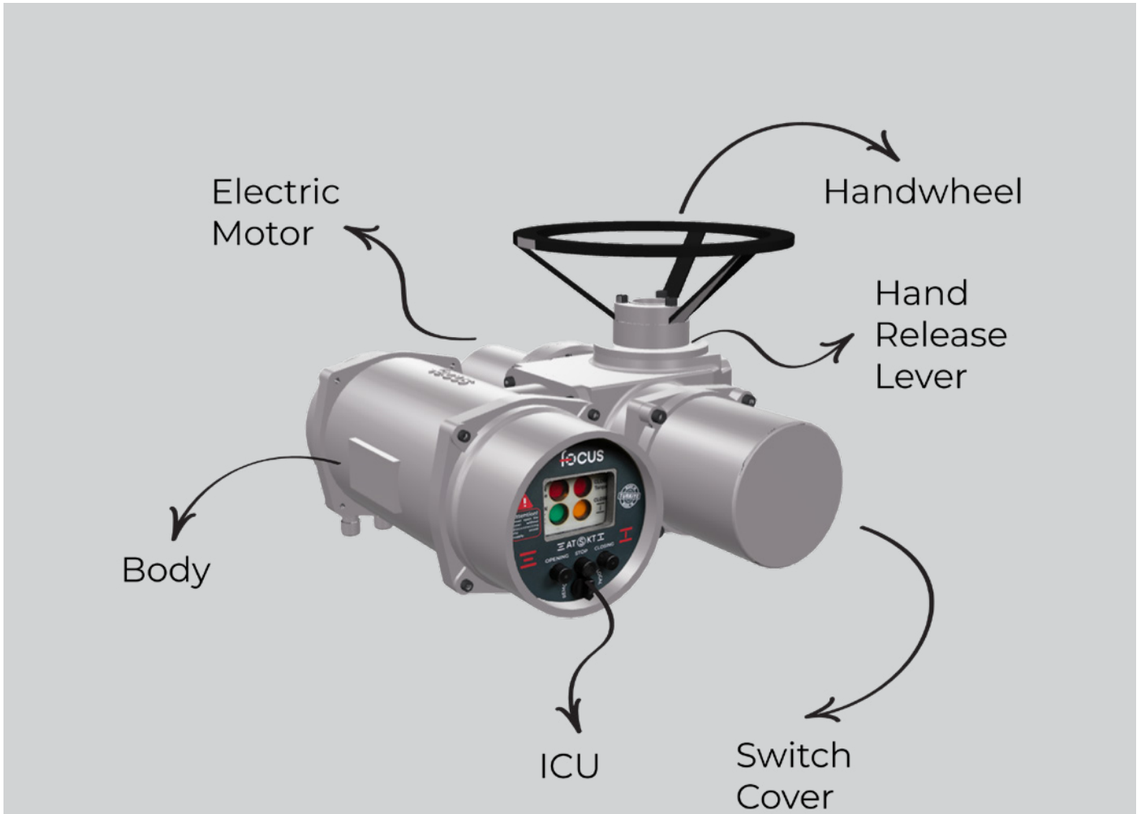
Simple controls providing basic functions. It offers local On-Off control through the actuator, displaying information on on-off limits and torque signals. The Remote-Local switch allows you to modify the control location. The control panel operates entirely in English.

ICU controls with easy designs and specific functionalities are an ideal option for simultaneous signal transmission and when a relatively small number of feedback signals are needed. During setup, various parameters such as end position seating type can be set using DIP key (Swithes).

Controlling the actuator involves executing commands like open, stop, and close. Signals indicating reaching an end position and any collective faults are relayed back to the main control system (DCS) for feedback. These signals are visually represented through indicator lights on local controls. Additionally, there's an option for position transmitter that transmits the valve position as a 4 – 20 mA signal to the DCS / PLC.







FOCUS LIMITOR E Series & ICU
On/Off Multi-Turn Electric Actuator

General Features

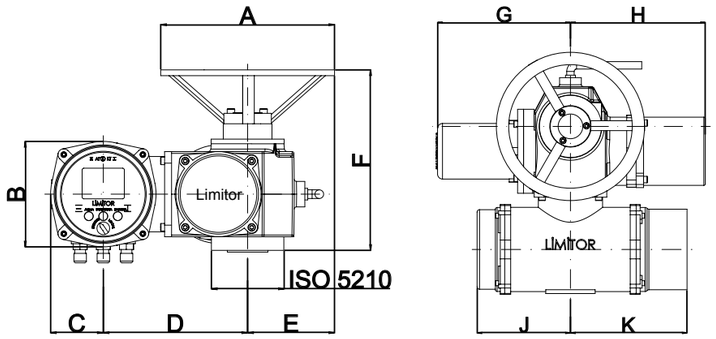
- Working Principle: On/off Multi-Turn
- Operation: Integral control Unit (Local) or Remote
- Output Speed: 24-72 RPM
- Torque Range: 60-500 Nm
- Voltage: 220-400 VAC
- Motor: S-25
- Main Pin connector
- Motor connection pin connector
- Actuator-Control Unit pin connector
- Motor Power: 0,37-2,2 Kw
- Position Control: Limit & Torque Switches
- Protection: IP68
- Indicator: Upon Request
- 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)

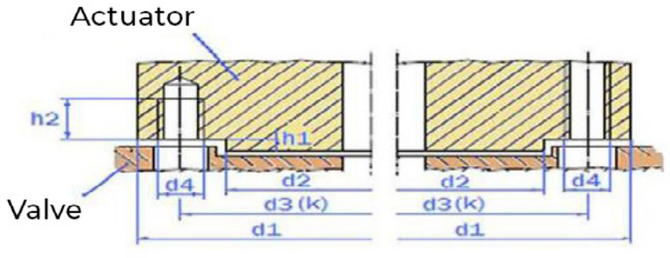
- 4-20 mA Transmitter option
- Mechanical position indicator
- Wall mounting bracket

General Dimensions

E Series

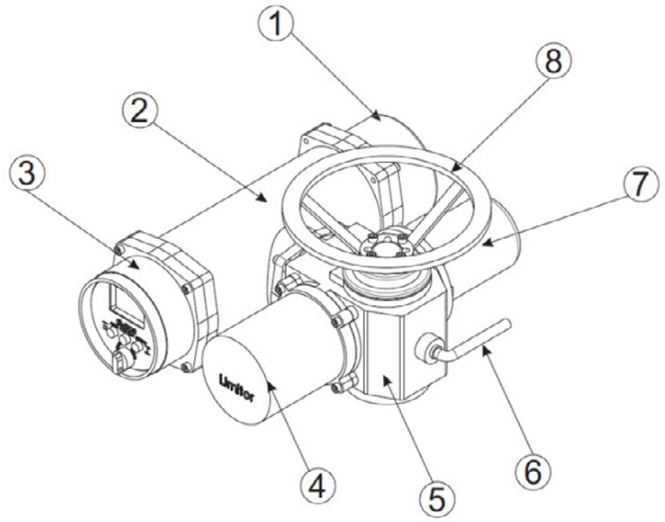


Actuator Type	A	B	C	D	E	F	G	H	J	K	Output Speed	Torque (Nm)	Voltage (VAC)	Motor (Kw)	Flange Connection
E60	300	217	90	255	255	300	275	150	290	280	24 Rpm	60	220-380	0,37	ISO 5210 F10
E80	300	217	90	255	255	300	280	150	290	280	24 Rpm	80	220-380	0,55	ISO 5210 F10
E120	300	217	90	255	255	300	290	150	290	280	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

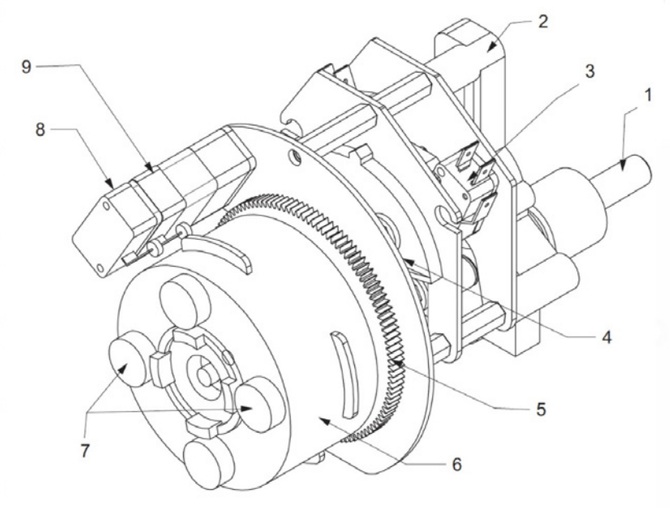


Main Components

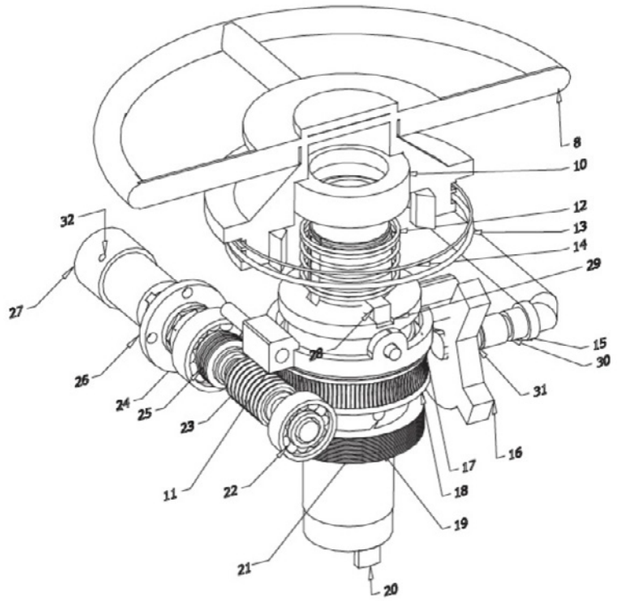
Part Number	Description
1	Pin Connecters
2	Control Device
3	Indicator & Local control cover
4	Switch Group Cover
5	Body
6	Release Lever
7	Electric Motor
8	Handwheel

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

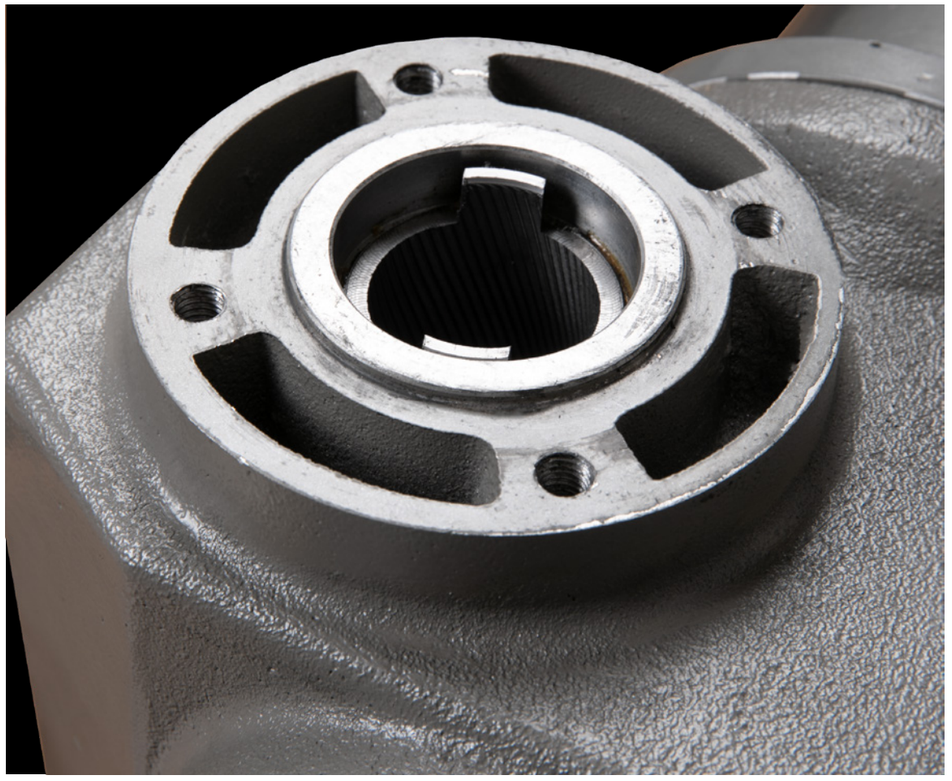


Gear Machanism

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