

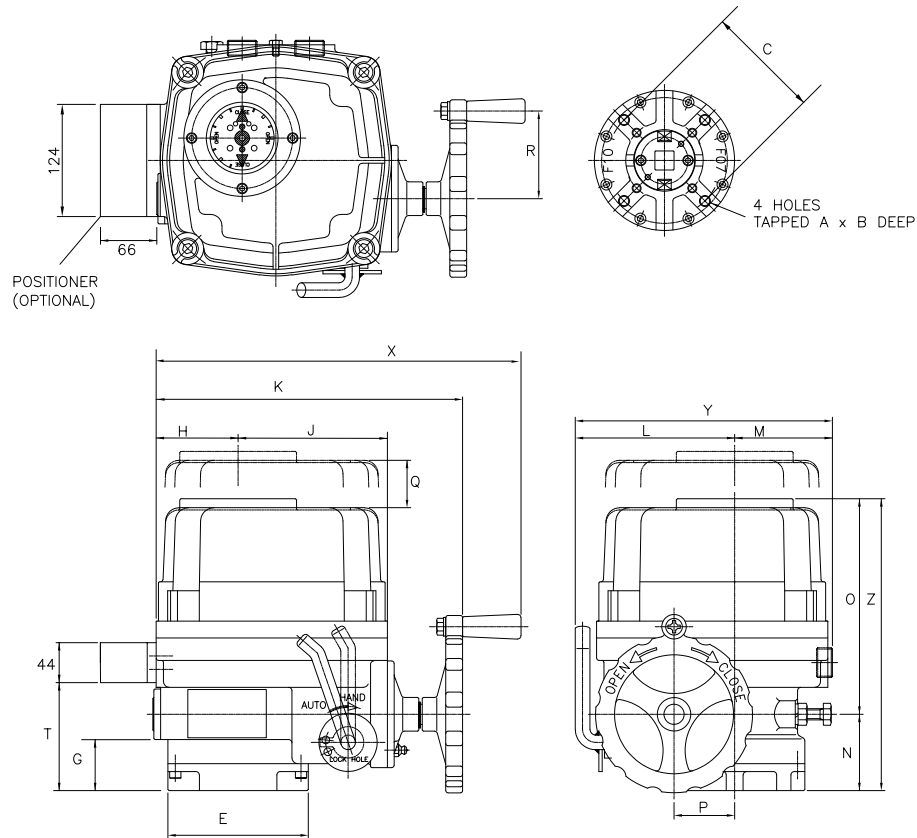
Typical Applications

- Quarter turn application such as ball, butterfly, plug valves and dampers, especially in harsh operating environments.
- Suitable for marine applications and processes where vibration is present.

Features and Benefits

- Self-locking with minimum backlash in the transmission—prevents valve movement due to flow.
- Manual override fitted as standard—valve can be operated in event of power failure.
- Two torque switches—provide protection in event of actuator overloading.





VALVE DIMENSIONS																						
Model	BASE ISO5211	A	B	C	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	T	X	Y	Z
EA100	F10	M10	15	102	125	3	42	73	133	273	142	87	68	192	54	160	78	17	86	338	229	268
EA200	F12	M12	18	125	148	3	49	82	154	303	160	99	69	221	65	180	78	22	95	368	259	290

Optional 4 - 20mA positioner

The AMOT actuator/valve positioner is set by an industry standard 4-20mA position demand input signal, which drives a solid state motor drive circuit. Microprocessor based, the unit uses the signal from the position feedback potentiometer to accurately position the actuator, taking into account motor response time, and actuator overshoot.

Software configuration allows:

- 4-20mA output to be set for demand, position or error transmit
- selection of reverse or direct mode for CW or ACW = 4mA

- action on demand signal failure to be set as stationary, or move to 4mA or 20mA ends
- deadband to be changed

All components are encapsulated to withstand vibration, and an LED is fitted to the case to indicate fault conditions. An external error output is also included as standard for remote error indication.

Specifications

Power	110V/220V AC $\pm$ 10%	50/60 Hz single phase
Limit switches	Two open/close SPDT	250V AC, 10A
Motor thermal protection	Open 150°C nominal	
Angular rotation	110° max	Quarter turn
High reliability potentionmeter	1k ohm standard, 5k ohm option	Life: 10 million revolutions Linearity: $<\pm 2\%$
Duty cycle at 20°C	EA 100	65%
	EA 200	100%
Conduit entry	M25 x 1.5	
Mechanical stop	Two adjustable screws	
Manual override	Automated declutching mechanism	
Materials	Steel, aluminium alloy, aluminium bronze, polycarbonate	
External coating	Dry powder polyester	
Weatherproof enclosure	IP67, NEMA 4 and 6	
Ambient temperature	-20°C to +70°C	
Ambient humidity	90% RH max (noncondensing)	
Anti-condensation heater	7 - 10W	
Vibration resistance	Meets IACS marine class test specification	
	5-100 Hz 100 - 300 Hz	4 g (for defined test time) 1 g (for defined test time)

Performance

Model	Max output torque	Stroke time (seconds)		Max current	
		50 Hz	60 Hz	220V	110V
EA100	100 Nm	25	21	0.88A	1.7A
EA200	200 Nm	31	26	0.92A	1.9A

Mechanical

Model	Weight	Mounting		Drive Interface ISO (5211) mm
		PCD (mm)	Thread	
EA100	16.6 kg	102	M10	17 mm square
EA200	22 kg	125	M12	22 mm square

Specification Check List

Use the tables below to select the unique specification of your CompACT actuator. Please select one characteristic from each section. Each characteristic is associated with a code that you will need to state when ordering.

Actuator Type	Code	✓
CompACT actuator	EA	

Size/nominal torque	Code	✓
100 Nm	100	
200 Nm	200	

Shaft connection	Code	✓
17 mm square (EA100 only)	17S	
22 mm square (EA200 only)	22S	

Supply voltage	Code	✓
110V AC	110	
20V AC	220	

Note: clockwise and anti-clockwise are operation of actuator as seen on the position indicator disc at the top.

Features	Code	✓
Standard (1k Ohm potentiometer)	0	
5 k Ohm potentiometer	1	
4-20mA electronic positioner with position retransmit (4mA at anti-clockwise)	A	
4-20mA electronic positioner with demand retransmit (4mA at anti-clockwise)	B	
4-20mA electronic positioner with position error output (4mA ref) (4mA at anti-clockwise)	C	
4-20mA electronic positioner with position error output (12mA ref) (4mA at anti-clockwise)	D	
As A but reverse acting (4mA at clockwise)	E	
As B but reverse acting (4mA at clockwise)	F	
As C but reverse acting (4mA at clockwise)	G	
As D but reverse acting (4mA at clockwise)	H	
Switched live control with position retransmit (4mA at anti-clockwise)	J	
As J but reverse acting (4mA at clockwise)	K	

Note: Direction of operation refers to top of actuator, looking towards valve.

Special requirements	Code	✓
Standard	-AA	
Notes		

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