

## DynaQuip AV17 Data Sheet

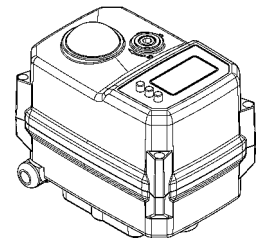
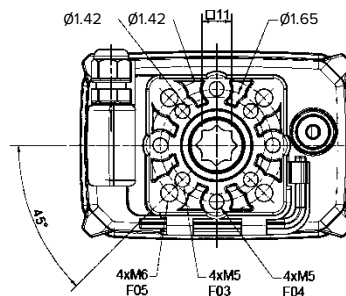
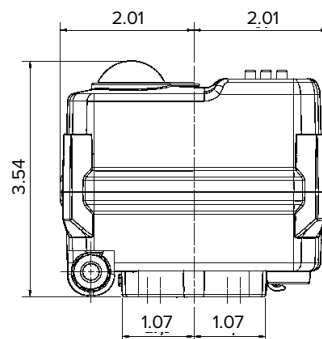
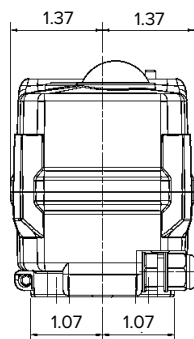
**The AV17 Standard** is an entry level electric actuator designed where only minimal features are required for on-off applications. The Standard version is constructed traditionally with internal cams striking micro-switches to stop the reversible motor in the required positions. The lower torque models are available failsafe using capacitors.

- Fully weatherproof to IP67
- Dome style local visual indicator
- Hand operation
- End of travel confirmation switches
- Female octagon drive output
- Multiple ISO5211 mountings
- Anti-condensation heater



### Standard Specifications

	AV17
Max Rated torque Nm output (in./lbs.)	Break 221 in./lbs. / Run 178 in./lbs.
Voltage range	24VDC, 24VAC, 12VDC, 110VAC, 220VAC
Mounting (ISO5211) x drive (female octagon)	F03, F04 & F05 x 14mm
Ingress Protection	IP67
Electrical connection	Pre-wired multi-core 2.6ft. cable
End of travel confirmation (dry contact/volt-free)	2 x Mechanical micro-switches
Local visual position indicator	Dome style
Housing material	ABS (Aluminum option)
Weight ABS (Aluminum)	1.7lbs.



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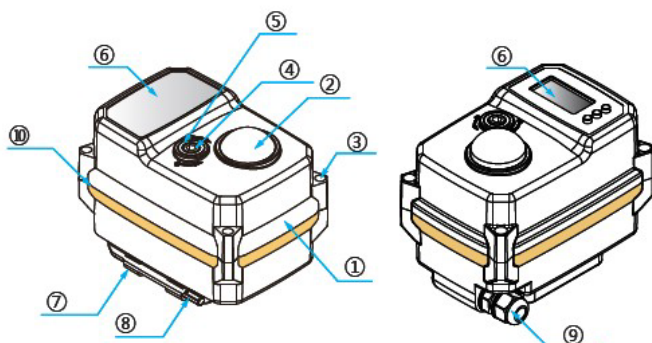
### Model: AV17 STANDARD ON-OFF & AV17 FAILSAFE ELECTRIC ACTUATORS

Specification	AC 1ph 50/60Hz			DC	
Rated Voltage	AC230V	AC110V	AC24V	DC24V	DC12V
Voltage Range	AC 190-250V	AC90-130V	AC22-28V	DC22-28V	DC10-15V
Consumption Standard	13.2W run, 0W hold	15W run, 0W hold	10.8W run, 0W hold	9.6W run, 0.3W hold	93.5W run, 0.3W hold
Peak current Standard	60mA for 5ms	135mA for 5ms	450mA for 5ms	500mA for 5ms	1A for 5ms
Consumption Failsafe	40W run, 1.6W hold	40W run, 1.6W hold	36W run, 0.25W hold	36W run, 0.25W hold	36W run, 0.25W hold
Peak current Failsafe	90mA for 5ms	90mA for 5ms	1500mA for 5ms	1500mA for 5ms	1500mA for 5ms
Fuse Standard	1A	1A	2A	2A	2A
Fuse Failsafe	1A	1A	5A	5A	5A
Maximum Break Torque	221 in./lbs.			221 in./lbs.	221 in./lbs.
Run & Reseat Torque Nm	177 in./lbs.			177 in./lbs.	
Manual operation	Yes, by hexagonal wrench (supplied in clip) when no power is being applied				
Run time Standard	15 sec			10 sec	12 sec
Run time Failsafe	15-20 sec			15-20 sec	15-20 sec

#### STANDARD FEATURES:

Operating frequency	Not continuous, allow $\geq 1$ minute between cycles
Position Indication	Mechanically driven dome style visual 2 color indicator
Mounting restriction	None, can be mounted at any angle. Leave room for space to operate manually, and for electrical connection
End Position indication	Micro-switches operated by adjustable internal cams, set slightly ahead of the final motor stop position.
ISO:5211	F03 & F05 (+ F04 which mounts at 45 degrees)
Working Angle	Factory set at $90^\circ \pm 2^\circ$ , maximum angle of rotation $360^\circ$
Female drive	14mm x 17mm deep
Ingress protection	IP67
Max media temp	$\leq 176^\circ\text{F}$
Ambient temp	-4 to +140 °F (ABS) -4 to +176 °F (Aluminum) Non-operating temp; $\leq -40^\circ\text{F}$ to $\geq 176^\circ\text{F}$
Cable Length	Flying lead 2.6ft. as standard with 7 core cable. voltage rated AC300V
Ambient humidity	5-95% RH non-condensing
Explosion proof	No, prohibited. Do not use in hazardous areas
Housing	Plastic (ABS)
Weight	With standard ABS housing 1.7lbs. (With optional aluminum housing 2.16lbs.)
Options	Extended flying lead option, per meter. Aluminum housing.

#### Main Parts



Item	Parts	Material
1	Actuator	ABS
2	Indicator	Transparent AS
3	Screw x 4	304
4	Manual Shaft	304
5	Oil Seat	NBR
6	Label	PVC
7	Wrench Fixed	ABS
8	Hexagon Wrench	Steel
9	Weatherproof Cable connector	Nylon
10	Cover Seal	NBR

## AV17 Wiring

### Standard Wiring for ON-OFF, Failsafe and Hi-speed AV17 Actuators

Standard Wiring for our AV17 series actuators including all voltages, 12VDC, 24VDC, 24VAC, 110VAC, 220VAC, 24VAC/DC and 95-265VAC 50/60Hz. Our ON-OFF actuators use a simple 3 wire system for control and 3 wire feedback connection as below. Note that the internal Space heater is pre wired and doesn't require additional wiring. When the actuator is powered, the internal heater will operate. Our Failsafe actuators use a simple 2 wire system for control and 3 wire feedback connection as below. The Failsafe actuators use capacitors and as such will require an initial charge period. After this point, the actuator will charge whilst opening and on removing power from Pin 2 (Red) the actuator will close. Re applying power to Pin 2 will Open the actuator and again charge the capacitor.

