

Actuation Solutions



The AVAR Range of Intelligent Quarter-turn Electric actuators are suitable for modulating and isolating duty in the actuation of butterfly valves, ball valves and dampers Available in three phase and single phase voltages, they offer the complete actuation solution to any quarter turn application.

AVAR Series Performance Data (400v-3-50Hz)

Specification	Flange	Time (S)	Tourque (Nm)	Rated Current (A)	Starting Current (A)
AVAR5	F05/F07	20	50	0.5	1.6
AVAR10	F05/F07	20	100	0.53	1.6
AVAR15	F05/F07	20	150	0.56	1.6
AVAR20	F05/F07	20	200	0.62	1.6
AVAR30	F05/F10	30	300	1.03	2.2
AVAR40	F05/F10	30	400	1.08	2.2
AVAR50	F05/F10	30	500	1.12	2.2

AVARM Modulating Series Performance Data (400v-3-50Hz)

Specification	Flange	Time (S)	Tourque (Nm)	Rated Current (A)	Starting Current (A)
AVAR5	F05/F07	20	50	0.48	1.5
AVAR10	F05/F07	20	75	0.5	1.5
AVAR15	F05/F07	20	100	0.52	1.5
AVAR20	F05/F07	20	140	0.56	1.5
AVAR30	F05/F10	30	180	0.92	2.1
AVAR40	F05/F10	30	240	0.96	2.1
AVAR50	F05/F10	30	300	1.02	2.1

AVAR Series Performance Data (220v-1-50Hz)

Specification	Flange	Time (S)	Tourque (Nm)	Rated Current (A)	Starting Current (A)
AVAR5	F05/F07	20	40	0.86	1.2
AVAR10	F05/F07	20	60	0.86	1.2
AVAR15	F05/F07	20	80	0.86	1.2
AVAR20	F05/F07	20	100	0.86	1.2
AVAR30	F05/F10	30	150	1.3	2.2
AVAR40	F05/F10	30	175	1.3	2.2
AVAR50	F05/F10	30	220	1.3	2.2

AVARM Series Performance Data (220v-1-50Hz)

Specification	Flange	Time (S)	Tourque (Nm)	Rated Current (A)	Starting Current (A)
AVAR5	F05/F07	20	30	0.76	1.1
AVAR10	F05/F07	20	40	0.76	1.1
AVAR15	F05/F07	20	55	0.76	1.1
AVAR20	F05/F07	20	70	0.76	1.1
AVAR30	F05/F10	30	100	1.22	2
AVAR40	F05/F10	30	140	1.22	2
AVAR50	F05/F10	30	180	1.22	2

ACTUATING VALVES

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AVAR

- a) **Enclosure:** IP67 Water and Weatherproof Enclosure
Optional Enclosure: IP68 Enclosure (7 metres submersible for 72 hours)
 - b) **Local Controls:** Local / Stop / Remote Pushbutton, and Open / Stop / Close Pushbuttons
 - c) **Manual override:** Low speed, pad-lockable hand auto clutch providing lost motion “hammer-blow” effect
 - d) **Motor:** Squirrel cage, low inertia high torque design, F Class insulated with 2 imbedded thermostats rated for 15 minutes – rated for 60 starts per hour
Optional Motor: Modulating AVARM Actuator qualified for 1200 starts per hour
 - e) **Commissioning:** Non-intrusive setting of primary and secondary configurations via Greatork pushbuttons
 - f) **Position Indication:** High definition LCD with integral illuminated digital valve position indicator showing 1% increments in valve position.
 - g) **Torque protection:** Adjustable electronic torque control
 - h) **Remote Indication of valve position:** Current Position Transmitter for 4 to 20 milliamp feedback fitted as standard.
 - k) **Indication and monitoring:** Four user configurable indication contacts can be programmed to give a variety of signal from the actuator to the PLC
 - l) **Warranty:** 12 months from date of commissioning
 - m) **Fieldbus Options:** Modbus, Profibus and Foundation Fieldbus
 - n) **Loss of Power:** Actuator is supplied with a 24-bit absolute optical encoder to record valve position.
- Additional standard features:**
- i) Monitor relay
 - ii) Automatic phase rotation correction
 - iii) Phase lost protection

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