

The DAS AVA Range of Intelligent Multi-turn Electric actuators are suitable for modulating and isolating duty in the actuation of knife gate valves, gate valves penstocks, sluice gates, globe valves etc. Available in three phase and single phase voltages, they offer the complete actuation solution to any multi-turn application.

DAS AVA01 Actuator (400v / 525v -3-50Hz) - F10 Base

Speed (rpm)	18	24	36	48	72	96
Torque (Nm)	45	45	35	35	35	30

DAS AVA02 Actuator (400v / 525v -3-50Hz) - F10 Base

Speed (rpm)	18	24	36	48	72	96
Torque (Nm)	80	80	80	80	45	40

DAS AVA03 Actuator (400v / 525v -3-50Hz) - F10 Base

Speed (rpm)	18	24
Torque (Nm)	110	110

DAS AVA04 Actuator (400v / 525v -3-50Hz) - F14 Base

Speed (rpm)	18	24	36	48	72	96	96
Torque (Nm)	250	250	205	205	160	145	100

DAS AVA05 Actuator (400v / 525v -3-50Hz) - F14 Base

Speed (rpm)	18	24	36	48	72	96	96
Torque (Nm)	450	450	300	240	240	230	150

DAS AVA06 Actuator (400v / 525v -3-50Hz) - F16 Base

Speed (rpm)	18	24	36	48	72	96	96
Torque (Nm)	650	650	540	450	450	365	270

DAS AVA07 Actuator (400v / 525v -3-50Hz) - F25 Base

Speed (rpm)	18	24	36	48	72	96
Torque (Nm)	1100	1100	780	680	550	550

DAS AVA08 Actuator (400v / 525v -3-50Hz) - F30 Base

Speed (rpm)	18	24	36	48	72	96
Torque (Nm)	1500	1500	1300	1000	800	745

DAS AVA09 Actuator (400v / 525v -3-50Hz) - F30 Base

Speed (rpm)	18	24	36	48	72	96
Torque (Nm)	2000	2000	1700	1350	1100	1000

DAS AVA09.1 Actuator (400v / 525v -3-50Hz) - F30 Base

Speed (rpm)		24	36
Torque (Nm)		2500	2500



DAS AVA03 Actuator (220v-1-50Hz)

18	24
65	60

DAS AVA04 Actuator (220v-1-50Hz)

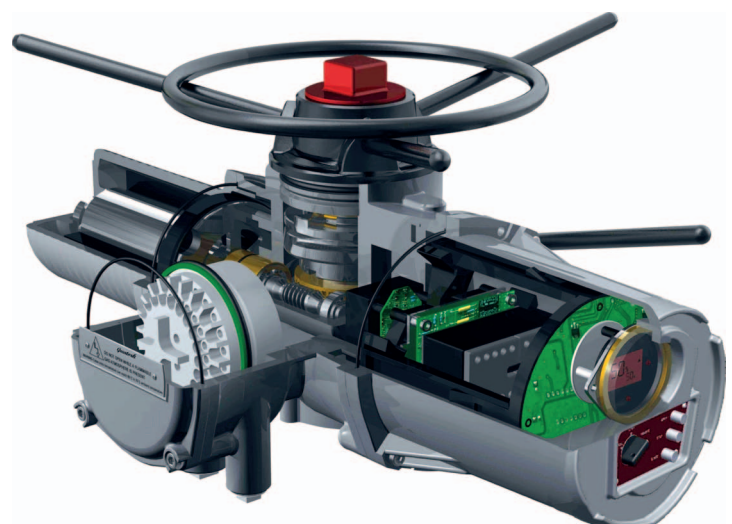
18	24	36	48	72	96
165	140	130	125	80	60

AS AVA05 Actuator (220v-1-50Hz)

18	24	36	48	72	96
200	200	130	130	100	70

DAS AVA06 Actuator (220v-1-50Hz)

18	24	36	48	72	96
400	350	300	270	200	170





DAS AVA Intelligent Multi-turn Actuator Range

- a) **Enclosure:** IP68 Double sealed Enclosure (7 metres submersible for 72 hours)
Optional Enclosure: EExdIIBT4 and EExdIICT4 explosion proof.
- b) **Local Controls:** Local / Stop / Remote Selector Switch, 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.
- i) **Intelligent Valve jam protection:** - facilitating the "backing off" of the actuator in the opposite direction (for a pre-set percentage of travel and times) when a valve obstruction is met, and the automatic reversal of direction of travel, for a pre-set number of operations, if the obstruction is not overcome, the actuator will stop and display relevant alarm signals.
- j) **Partial Stroke function:** Actuator can be set to operate for a small percentage of travel, each day / week / month to prevent seizing of tight valves / penstocks.
- k) **Indication and monitoring:** Four user configurable indication contacts can be programmed to give a variety of signals 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:** Backup Battery is provided to record valve position in the event of a loss of power.
Option: Actuator can be supplied with 24-bit optical absolute encoder to record valve position without the need for a battery backup.

Additional standard features:

- i) Monitor relay
- ii) Automatic phase rotation correction
- iii) Phase lost protection

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