



AP MOTRONIX PRIVATE LIMITED

3-18-3, Pragathi Nagar, Ramanthapur, Hyderabad – 500013. INDIA.

Off.: 040-27038560/1929

Website: www.apmotronix.com

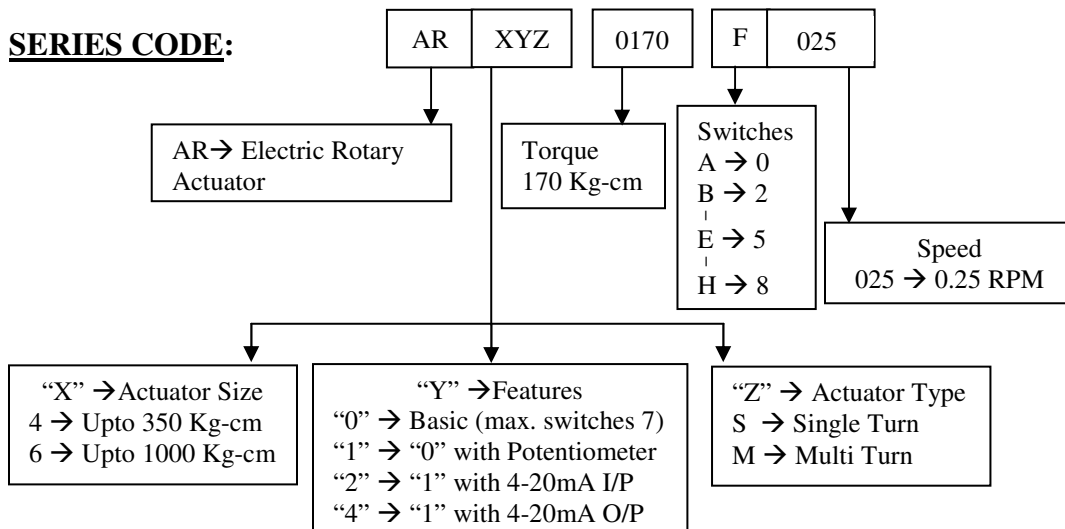
E-mails: sales@apmotronix.com;

purchases@apmotronix.com

ELECTRIC ROTARY ACTUATOR (AR SERIES)

The AR series of valve and damper actuators come in two sizes. These actuators drive the load through less than one complete revolution in both directions and stop instantaneously at any point of the stroke. With the addition of a worm gear system the actuators can be used to operate multi-turn valves. The position of the output shaft can be controlled with a 4-20mA controller. For feedback, the actuator is equipped with a potentiometer.

SERIES CODE:



STANDARD FEATURES:

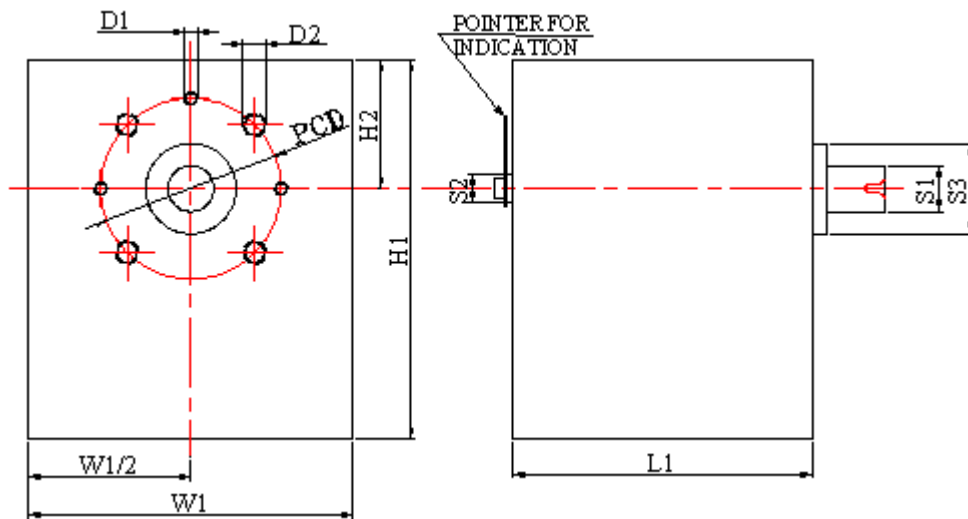
1. These are with line voltage or low voltage motors.
2. In case of single turn actuators, the stroke is fixed at 90° , 160° , or 270° and is also field adjustable.
3. Models for two-position (ON-OFF) control and also for three stage position (min. switches 3) control. Max. Switches 7 nos (H).
4. Spur gear train lubricated permanently.

5. Rated for ambient -40°C to $+55^{\circ}\text{C}$.

ADDITIONAL FEATURES:

1. **Actuator Speed-Torque:** Contact us for Speed-Torque combinations.
2. **Feed Back:** Potentiometer of standard $135\ \Omega$ or $1.0\ \text{k}\Omega$; 1W; 1 Turn.
3. **Electronic Positioner:** Proportional 4-20mA input signal for positioning.
4. **Position Transmitter:** The resistance value from Potentiometer is converted to 4-20mA output signal; the external power supply has to be 12 – 36 VDC.
5. **Additional Switches:** Provision for extra auxiliary cams-switches (maximum of 7 switches. Customized interlocking of the switches is done).
6. **Operating voltages:** 12, 24, 110, 230VAC.
7. **Additional Mechanisms:** Output end linkages available.

MECHANICAL SPECIFICATIONS:



MODEL	H1 mm (MAX.)	H2 mm (MAX.)	W1 mm	PCD mm	D1		S1 mm		S2 mm	S3 mm	L1 mm
					D2		□	Φ			
AR4YZ-	145	38	115	50	M5		9.5	12.7	Φ8 or Φ10	Φ16	Depends on Y
				---	---						
AR6YZ-	195	52	140	90	M10		12.7	17.0	Φ8 or Φ10	Φ54	

1. Output shaft (S1) end profile is either square or round (keyway provision). Length of S1 can be customized (Min.20.0 for AR4YZ & 35.0 for AR6YZ).

WARNING:

1. Do not use lengthy screws, projecting inside the plate.
2. Do not turn the shaft with wrench.
3. Handle the unit with care; malfunctioning / damage due to inadequate handling will not entertain any guarantee. Such units will not be entitled for replacement.

ORDERING DATA: Clearly indicate in your purchase order the following:

Model Number : Please follow series code.

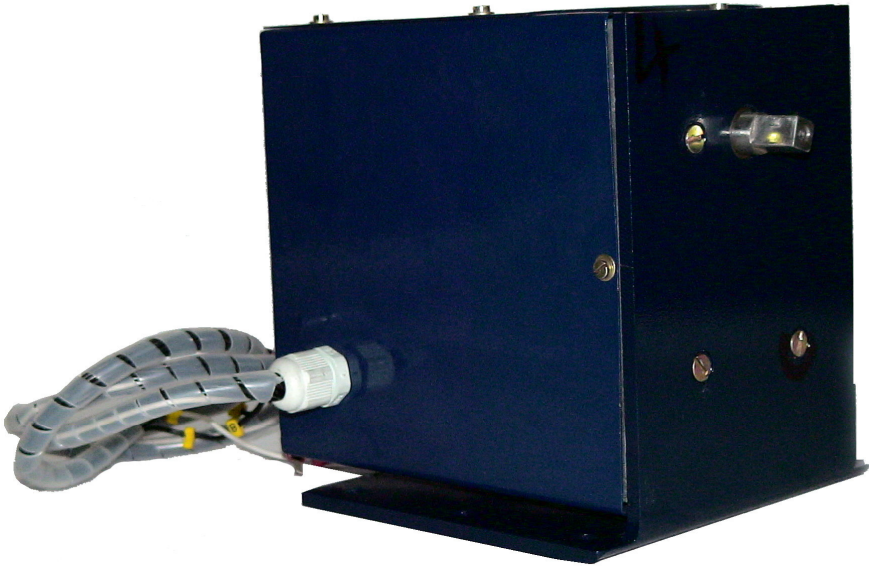
Operating Voltage : 24, 110, 230 VAC, 50/60 Hz, 1 Φ .

Torque : In Kg-cm (350 max. for AR4YZ; 1000 max. for AR6YZ).

Speed : In RPM (or Travel time for the stroke angle).

Feed Back Potentiometer : Resistance Value, Single or Multi (for multi-turn actuators only) turn, Wattage.

AR4:



AR6:

