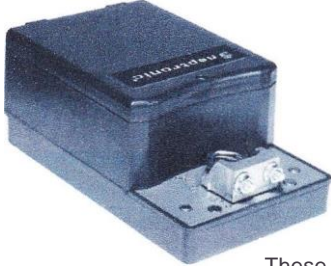




Ph:	206 403 1989
Fx:	206 282 4888
E:	info@hvacep.com
W:	www.hvacep.com

R Series Actuator (low voltage)



360 in.lb. (40 Nm) torque



PRIMARY USES FOR THESE ACTUATORS

- large size air handler dampers
- 1/4 turn valves

These quarter turn actuators may be directly coupled to either a 3/4 inch round or 5/8 inch square jack shaft or remotely mounted using an adaptor kit. All actuators are bi-directional. Enerdrive actuators are also bi-directional under fail safe conditions. The stroke may be limited to less than 90° mechanically in digital models (with SLD sold separately) and electronically in Multi Signal models.

GENERAL SPECIFICATIONS

<i>Power Supply:</i>	24Vac/30Vdc
<i>Power Consumption:</i>	Peak at Start-up: 10VA to 40VA at 26Vac Depending upon the Model Operating at Full Load: 10VA to 24VA at 26Vac Depending upon the Model
<i>Wire Size:</i>	18 AWG (0.8 mm ²), Minimum
<i>Electrical Connections:</i>	Two 7/8 in. (22.2 mm) Knock Outs, Screw Terminals
<i>Control Signals:</i>	Digital (RT): 2 Wire or 3 Wire 2 Position and/or 3 Wire or 4 Wire 3 Point Floating Depending upon the Model Multi Signal (RM): ANALOG: A) 2-10Vdc; or B) May be Externally Wired with a 500 Ohm Resistor which is Supplied for 4-20mA, Zero & Span Adjustable PULSE WIDTH MODULATION: Time Base of 0.1 to 5 sec/20mS Resolution or 0.1 to 25 sec/100mS Resolution Selected by Dip Switch Position SWITCH 24Vac: Triac or Dry Contact, 40mA Max. Switching Current SWITCH COMMON: NPN Transistor, SCR, Triac or Dry Contact 75mA Max. Switching Current DIGITAL: 3 Wire 2 Position or 4 Wire 3 Point Floating
<i>Torque:</i>	360 in.lb. (40 Nm) at Rated Voltage
<i>Direction & Time of Rotation:</i>	Reversible, 40 to 50 sec or 60 to 85 sec, 0-360 in.lb. (0-40 Nm) Depending upon the Model
<i>Ambient Temperature:</i>	0°F to +122°F (-18°C to +50°C)
<i>Feedback Potentiometer:</i>	InDigital (RTXX5): Voltage (0-12Vdc max) InMulti Signal (RM): 4-20mA Output (May be wired for a 2-10Vdc signal)
<i>Fail Safe (Enerdrive) Rating:</i>	Models Ending in 60, 65, 80, 60N or SON: 360 in.lb. (40 Nm)
<i>Enerdrive Response Time:</i>	60 to 85 sec closure through 90°, 0-360 in.lb. (0-40 Nm)
<i>Auxiliary Switches:</i>	Models Ending in 20, 80, 20N or SON: 2 Mechanical Switches, Fixed at 10° & 80°
<i>Auxiliary Switch Rating:</i>	5 Amp Resistive, 250Vac
<i>Electronic Enclosure:</i>	Flammability rating UL94-5V Option W: IP65 equivalent to Nema type 4 enclosure with special protection against chemicals

Spec Sheet Available on Our Website

Actuator	Power			Control Signals					Time in sec Thru 90° Arc	Actuator Features				
	Nom. Supply	Consumption		Digital		Multi Signal				Feed Back	Auto Stroke	Zero & Span	FailSafe (Enerdrive)	2 Mech. Aux. Switches
		Start Up	Full Load	2 POS	3 PT FLT	2-10 Vdc	4-20 mA	PWM						
RT000	24Vac 30Vdc	10VA	10VA						60 to 85					
RT005	24Vac 30Vdc	10VA	10VA						60 to 85					
RT020	24Vac 30Vdc	10VA	10VA						60 to 85					•
RT060	24Vac 30Vdc	24VA	10VA						60 to 85			•		
RT065	24Vac 30Vdc	24VA	10VA						60 to 85					
RT080	24Vac 30Vdc	24VA	10VA						60 to 85					
RMO00	24Vac 30Vdc	10VA	10VA						60 to 85					
RM020	24Vac 30Vdc	10VA	10VA						60 to 85					
RM060	24Vac 30Vdc	30VA	10VA						60 to 85					
RM080	24Vac 30Vdc	30VA	10VA						60 to 85					
RMO00N	24Vac 30Vdc	24VA	24VA						40 to 50					
RM020N	24Vac 30Vdc	24VA	24VA						40 to 50					•
RM060N	24Vac 30Vdc	40VA	24VA						40 to 50					
RMOSON	24Vac	40VA	24VA						40 to 50					

Note: All actuators are powered by brush motors except those ending with the letter "N"