


**Feature:**

- Variable running time.
- Manual override.
- Maintenance free.
- Fail safe by *Enerdrive System*<sup>1</sup> (on models 060 & 080).
- Auxiliary switches. (on models 020 & 080).

**AT000**  
**AT020**  
**AT060**  
**AT080**

Technical Data	AT000	AT020	AT060	AT080
Auxiliary switches	No	Yes(2)	No	Yes(2)
Feedback	No	No	No	No
Fail safe - <i>Enerdrive</i>	No		Yes	
Power consumption	6 VA		20VA Peak, 6VA	
Control signal	3 wire / 2 position, 3 wire / 3 point floating		2 wire / 2 position, 4 wire / 3 point floating	
Running time	60 sec force dependant			
Force	100 lb. [450 N] at rated voltage			
Power supply	22 to 26 VAC or 28 to 32 VDC			
Electrical connection	18 AWG [0.8 mm <sup>2</sup> ] minimum			
Inlet bushing	2 inlet bushing of 5/8 in [15.9 mm] & 7/8 in [22.2 mm]			
Maximum Stroke	0.5 in [12.7mm]			
Direction	Reversible, normally open or normally close (factory set with normally close direction)			
Ambient temperature	0°F to +122°F [-18°C to +50°C]			
Storage temperature	-22°F to +122°F [-30°C to +50°C]			
Relative Humidity	5 to 95 % non condensing.			
Weight	2 lbs. [0.9 kg]			

**Warning: Do not use automatic screw driver on manual override**

**Dimensions**

Dimension	Inches	Metric (mm)
<b>A</b>	5.93	150.6
<b>B</b>	4.80	121.9
<b>C</b>	3.60	91.4

**Caution**

We strongly recommend that all neptronic® products be wired to a separate transformer and that transformer shall service only neptronic® products. This precaution will prevent interference with, and/or possible damage to incompatible equipment.  
 When multiple actuators are wired on a single transformer, polarity must be observed. Long wiring runs create voltage drop which may affect the actuator performance.

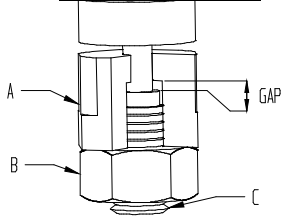
<sup>1</sup> *Enerdrive Fail-Safe System*: US Patent #5,278,454 | European Patent #0647366



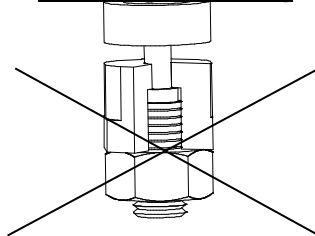
### Mechanical installation

#### Mounting of the actuator on valve

##### Correct mounting



##### Non Correct mounting



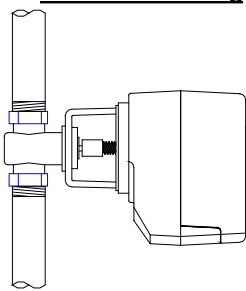
1. Screw completely the valve shaft (C) unto the coupling of the actuator (A).
2. Unscrew the coupling (A) for ½ of turn in order to leave a functional play.
3. Screw the counter nut (B).

#### Warning:

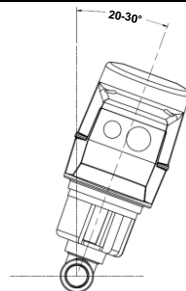
Do not over tight coupling of the actuator on the shaft of the valve.

#### Mounting of the actuated valve on system

##### Vertical mounting



##### Horizontal mounting

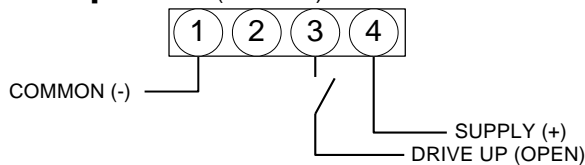


1. Pay attention to system particularity; be sure that the expansions, contractions of the system and its medium as well as operating pressures are within the tolerances.
2. When plumbing, the motorized valve should be situated in an easily accessible place and sufficient space should be allowed for the removal of the actuator.
3. To prevent moisture from collecting in the motor casing, install the motorized valve such that the **actuator is superior to the valve**, at 20-30° / at vertical. Avoid mounting the valve so that the valve stem is below horizontal.

### Wiring Diagrams

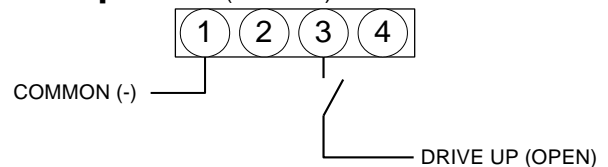
#### Models AT000 & 020

##### 3 wire / 2 position (ON-OFF)

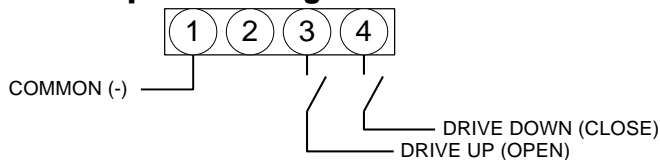


#### Models AT060 & 080

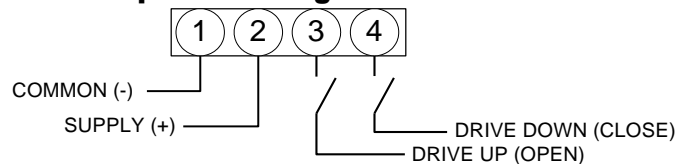
##### 2 wire / 2 position (ON-OFF)



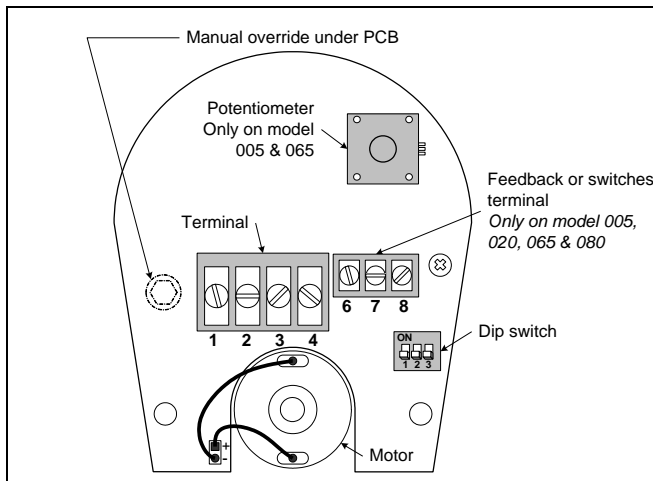
##### 3 wire / 3 point floating



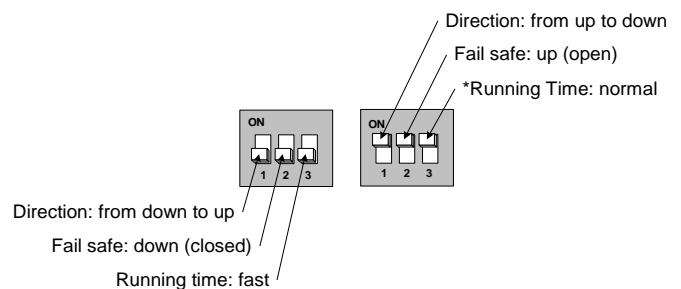
##### 4 wire / 3 point floating



### PC Board



### Dip switch settings



\*On AT model:  
When switch #3 is "ON", the running time will be 60 sec.