

# **Climate Control**

IMI TA

## TA-ACTM



## **Actuators**

Fail safe modulating actuator for terminal unit valves



## TA-ACTM

These control valve actuators use common high strength, glass filled, nylon composite and electric gear motor. Available as normally open or normally closed option, these spring return actuators have proportionally, 4-wire, fail-safe on power disruption capability. The actuator is equipped with a dial type position indicator and a M30x1.5 quick disconnect mounting thumbnut to easily connect to our IMI TA balancing and control valves like TA-COMPACT-P, TA-Modulator and TBV-CM.



#### **Key features**

Conforms to CE, UL/CSA and RoHS standards

#### Motor jam recovery

System reverses the motor, backs up and again attempts to move to calculated position.

#### **Position indicator**

For visibility of stroke position.

#### Maintenance free motor

Brushless hysteresis that is capable of continuous stall. For greater control accuracy and dependability.

### Technical description

#### **Functions:**

Proportional control

#### Fail safe:

Normally open: Fail open Normally closed: Fail closed

#### Supply voltage:

24 VAC +10%/-5% Frequency 50/60 Hz

#### Power consumption:

Starting ≤ 6.0W During operation ≤ 7.2W

#### Control speed:

10 sec/0.177 in, proportional range.

#### Fixed force:

28 lbf

#### Temperature:

Max. ambient temperature (in operation): 120°F

Min. ambient temperature (in operation): 40°F

Max. fluid temperature: 194°F Min. fluid temperature: 32°F Storage temperature: -13°F to 158°F

#### Motor type:

Brushless hysteresis

#### Ingress protection:

IP20 (NEMA I)

#### Cable:

Cable length: standard 36" wire harness.

#### Stroke:

Max. 0.177"

#### Weight:

1.0 lb

#### Connection to valve:

Retainer nut M30x1.5 of brass.

#### Compatibility combined valves:

TA-Modulator 1/2" - 3/4" TBV-CM 1/2" - 1" TA-COMPACT-P 1/2" - 1 1/4"

#### Material:

Body: High stress 33% glassfilled Nylon Mounting ring: Brass

#### Color:

Grev

#### Marking:

Lable with: IMI TA, article No., technical specification, CE.

#### **Certification CE:**

CE: EN50081-1, EN55014, EN6100-3-2, EN61000-3-3.

RoHS: Directive 200295/EC.

#### Approvals:

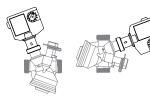
Meets CE, RoHS requirement, low voltage Class 2 as per UL/CSA standards.

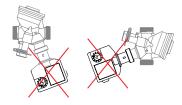


#### Installation

#### Requirements

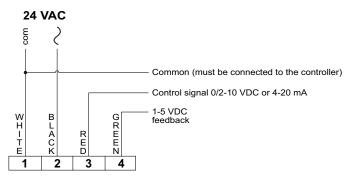
The actuator can be installed vertically or horizontally; it cannot be installed upside down. The actuator mounting thumbnut is to be tightened by hand only, using tools may result in overtightening.





#### **Electrical connection**

Electrical connect 24 VAC Class 2 wiring using strain relief. Connect the four wires (polarity is required) to the short leads of the electric motor. Secure the connection with wire marets and tuck them inside the motor. Snap on the wire connector, press into the opening and it will lock in place.

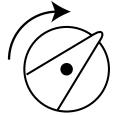


#### Fail safe

For IMI TA valve bodies that are spring-loaded stem up, the spring returns the valve and actuator to the stem up position when power is lost in fail open type, Normally open actuator, or stem down in fail closed type, Normally closed actuator.

#### **Positon indicator**

Normally open type

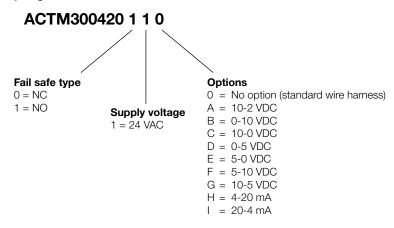


Normally closed type

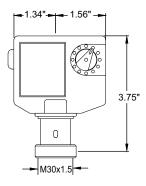


## **Model designation**

IMI TA Modulating Actuator Spring Return NO 24 VAC with standard wire harness shown



## **Articles**



#### TA-ACTM

Туре	Weight [lb]	Article No ** North America
Modulating actuator	1.0	ACTM300420 <b>YYY*</b>

\*) YYY = To be sepcified according to "Model designation".

\*\*) Distributed by Victaulic.

