



Climate
Control

IMI TA

TA-ACT



Actuators

Fail safe high performance on/off actuator for terminal unit valves

Breakthrough
engineering for
a better world

TA-ACT

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 2-position, 2-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 TBV-C and TA-COMPACT-P.



Key features

CE and RoHS certified

Maintenance free motor

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

Position indicator

For visibility of stroke position.

Technical description

Functions:

For on/off control

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

Connection to valve:

Retainer nut M30x1.5 of brass.

Fail safe:

Normally open: Fail open

Normally closed: Fail closed

Motor type:

Brushless hysteresis

Compatibility combined valves:

TBV-C 1/2" - 1"

TA-COMPACT-P 1/2" - 1 1/4"

Supply voltage:

24 VAC ±10%

110 VAC ±10%

220 VAC ±10%

Frequency 50/60 Hz

Ingress protection:

IP20 (NEMA I)

Material:

Body: High stress 33% glassfilled Nylon

Mounting ring: Brass

Power consumption:

Starting ≤ 7.2W

During operation ≤ 7.2W

Cable length: 36" wire harness (optional with part code 'W').

Connection cable: 4" leads 7/8" strain relief connector.

Color:

Grey

Control speed:

20 sec/ 0.177 in

Cable:

Connection cable: 4" leads 7/8" strain relief connector.

Marking:

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

Fixed force:

27 lbf

Stroke:

Max. 0.177"

Weight:

0.8 lb

Certification CE:

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

RoHS: Directive 2002/95/EC.

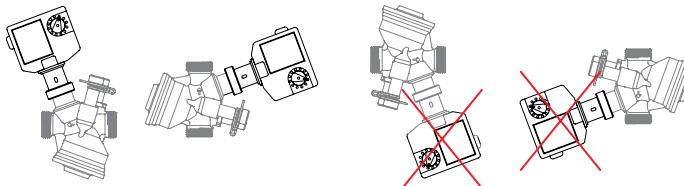
Approvals:

Meets CE, RoHS requirement, electrical motor UL and CSA approved.

Installation

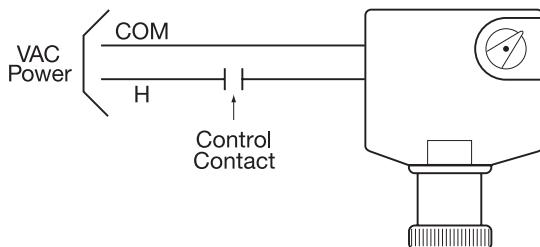
Requirements

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 over-tightening.



Electrical connection

Electrical connect 24 VAC Class 2 wiring using strain relief 7/8" connector provided. Connect the two wires (polarity is not required) to the short leads of the electric motor. Secure the connection with wire marts and tuck them inside the motor true 7/8" hole. Snap on the wire connector, press into the opening and it will lock in place.

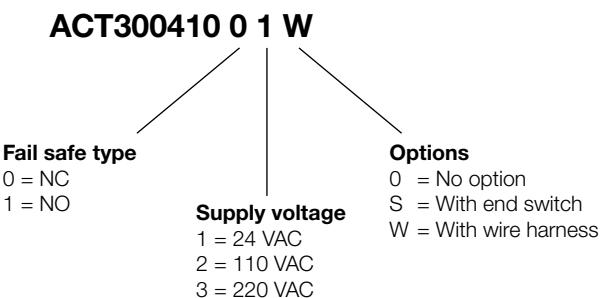


Black/Red - 24 V

Black/White - 120 V

Model designation

IMI TA Actuator Spring Return NC 24 VAC with wire harness shown

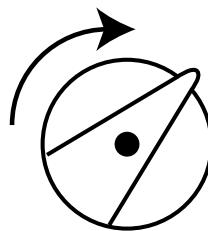


Fail safe

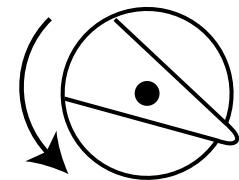
For IMI TA valve bodies that are spring-loaded stem up, the spring returns the valve and actuator to the stem up position when power is lost in fail open type, Normally open actuator, or stem down in fail closed type, Normally closed actuator.

Position indicator

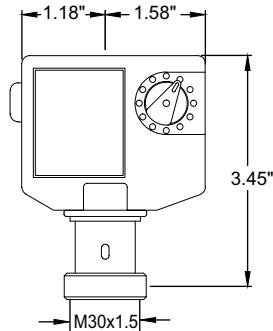
Normally open type



Normally closed type



Articles



TA-ACT

Type	Weight [lb]	Article No ** North America
On/off actuator	0.8	ACT300410 YYY *

*) YYY = To be specified according to "Model designation"

**) Distributed by Victaulic.

