

Climate
Control

IMI TA

TA-ACT



Actuators

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

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

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:

For on/off control

Fail safe:

Normally open: Fail open
Normally closed: Fail closed

Supply voltage:

24 VAC $\pm 10\%$
110 VAC $\pm 10\%$
220 VAC $\pm 10\%$
Frequency 50/60 Hz

Power consumption:

Starting $\leq 7.2W$
During operation $\leq 7.2W$

Control speed:

20 sec/ 0.177 in

Fixed force:

27 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: 36" wire harness (optional with part code 'W').
Connection cable: 4" leads 7/8" strain relief connector.

Stroke:

Max. 0.177"

Weight:

0.8 lb

Connection to valve:

Retainer nut M30x1.5 of brass.

Compatibility combined valves:

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

Material:

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

Color:

Grey

Marking:

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

Certification CE:

CE: EN50081-1, EN55014, EN6100-3-2, EN61000-3-3.
RoHS: Directive 200295/EC.

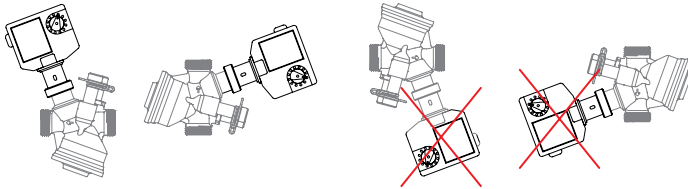
Approvals:

Meets CE, RoHS requirement, 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.

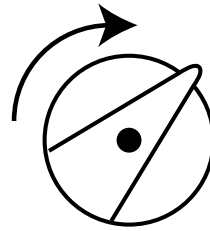


Fail safe

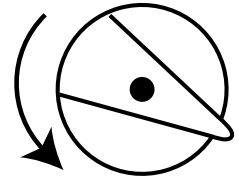
For IMI TA valve bodies that are spring-loaded stem up, the spring returns the valve and actuator to the stem up position when power is lost in fail open type, Normally open actuator, or stem down in fail closed type, Normally closed actuator.

Position indicator

Normally open type

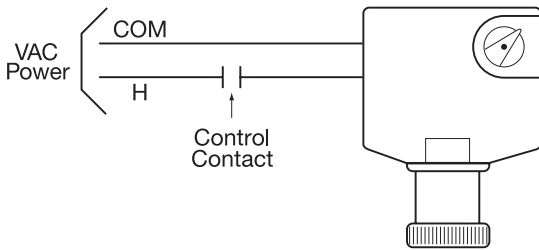


Normally closed type



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 maretts 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

ACT300410 0 1 W

Fail safe type

0 = NC
1 = NO

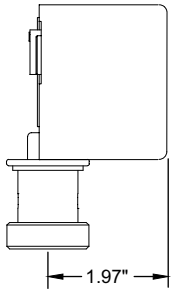
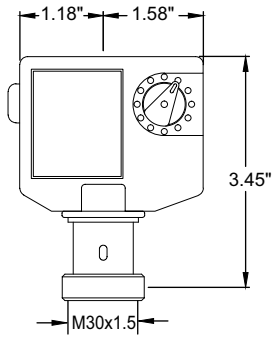
Supply voltage

1 = 24 VAC
2 = 110 VAC
3 = 220 VAC

Options

0 = No option
S = With end switch
W = With wire harness

Articles



TA-ACT

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

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

***) Distributed by Victaulic.