

# TVI-DM Series CONTINUOUSLY MODULATING TYPE DAMPER ACTUATOR

## DESCRIPTION

TVI-DM Series continuously modulating type damper actuator is controlled by DC 0~10V or 4~20mA signal, and can provide 0~10V position feedback signal, it is specially designed for damper control in HVAC system. There are 10, 15, 20, 30Nm models for optional.



## CHARACTERISTICS

### ● SIMPLE INSTALLATION

Fix the damper actuator on the damper shaft by universal holder.

(Various special actuator holding bracket are supplied according to customers' requirements.)

### ● MANUEL OPERATION

It can be operated manually if needed: press the manual button on the actuator, the gears inside the actuator will break away. The damper can be operated manually when keep pressing the manual button.

PLEASE DON'T OPERATE WHEN POWER ON!

### ● HIGH DEPENDABLE PERFORMANCE

TVI-DM Series modulating type damper actuator uses bi-directional magnetic clutch synchronous motor. It has overload protection function, and doesn't need limitator switch. The actuator will stop automatically when it is operating to the end.

### \* OPTIONAL PART

- Auxiliary Switch – refer to list price

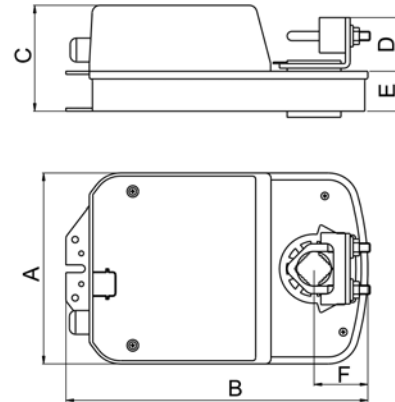
## SPECIFICATIONS AND TECHNICAL DATA

MODEL	TVI-DM-10	TVI-DM-15	TVI-DM-20	TVI-DM-30
TORQUE	≥10Nm	≥15Nm	≥20Nm	≥30Nm
OPERATION TIME	66s	90s	110s	143s
NET WEIGHT	1.35kg		1.72kg	
RATED VOLTAGE (50/60Hz)	24VAC±10%			
LEAD SPECIFICATION	0.5~1.5mm <sup>2</sup>			
POWER CONSUMPTION	7.5VA when operating			
CONTROL SIGNAL	DC0~10V or 4~20mA			
POSITION PRECISION	±5%			
ROTATE ANGEL	0~95° ( Mechanical limitation at 95° )			
NOISE LEVEL	Maximum 45dB(A)			
POSITION INDICATOR	Mechanical indication			
PROTECTION CLASS	IP 42			
AMBIENT TEMPERATURE	-30 ~ +50°C			
USAGE LIFE	>60000 times			

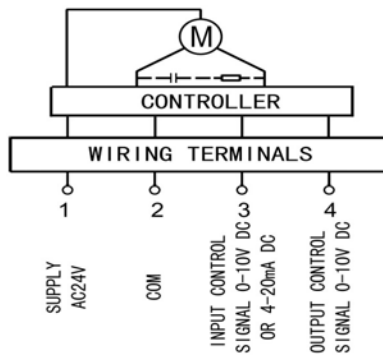
## DIMENSIONS

MODEL	DIMENSIONS (mm)					
	A	B	C	D	E	F
TVI-DM-10	108	174	70	39	26	31
TVI-DM-15	108	174	70	39	26	31
TVI-DM-20	124	196	69	39	26	35
TVI-DM-30	124	196	69	39	26	35

Note: Damper shaft dimension:  $\varnothing 10\sim 20$   $\square 10\sim 16$



## WIRING DIAGRAM



INPUT CONTROL SIGNAL		ROTATE DIRECTION
DA	RA	
INCREASING	DECREASING	
DECREASING	INCREASING	

## INSTALLATION DIAGRAM

