

• Motorized Ball Valve • On/Off Type • CBV Series

CETO motorized ball valves feature excellent water flow control capability in air conditioning water fan coil systems with high water flow rate, zero dirt blocking and low torque.



2 WAY VALVE

FEATURES:

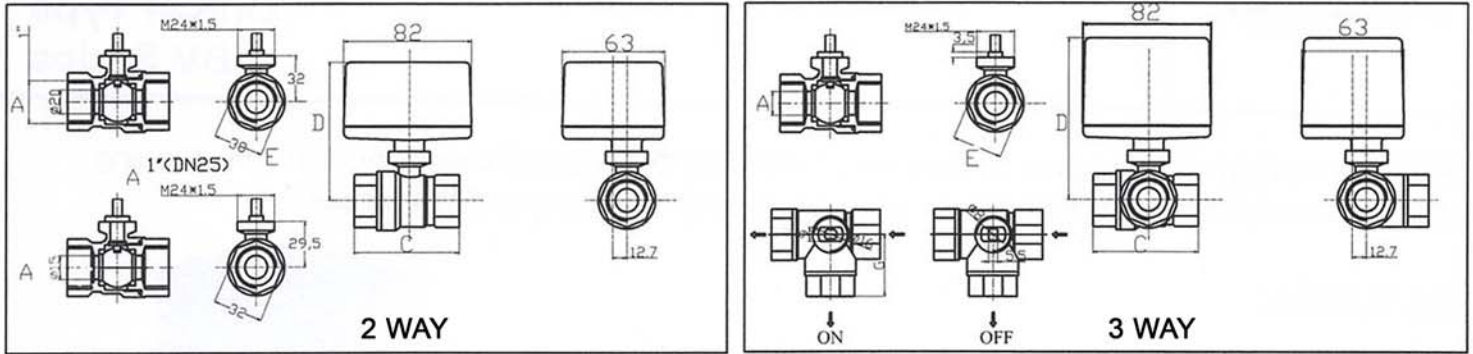
- Waterproof and dustproof enclosure.
- Low Pressure Drops with 100% closure.
- Removable Actuator.
- Manual valve operation without the actuator.
- Under 16 seconds of motor operation for each opening & closure of valve when actuator is energized.
- 24, 115 or 230 VAC actuator power options with high torque synchronous motor.
- Resilient double sealing structure ball valve for low torque, zero leakage and long life span.
- 1/2", 3/4" or 1 "Threaded or Sweat Pipe Connections .



3 WAY VALVE

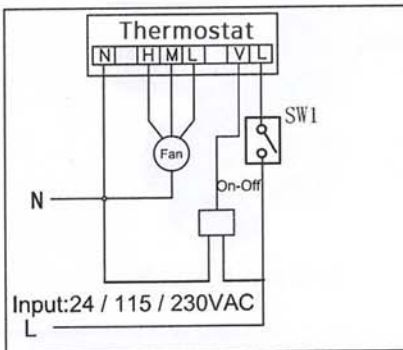
Valve Specifications			Actuator Specifications		
Flow Characteristic	ON/OFF			Control	Modulating
Available Sizes	1/2"	3/4"	1"	Nominal Voltage	24V 50/60Hz ± 10% 120V 50/60Hz ± 10% 230V 50/60Hz ± 10%
Cv Ratings	5.6	9.3	17.5	Max Pressure	1.6 Mpa (232 PSI)
Type of Fitting	Threaded or Sweat			Power Consumption	6 Watts
Material	Body	Nickel Plated Brass		Insulation resistance	DC500V - 100M'Ω
	Stem	Stainless Steel		Ambient Humidity	90%
	Ball	EPDM with Double o ring		Media Temp. Range	3s°F ~ 200°F
Valve body Torque	>1 Newton Meter			On/Off Time	19S/60Hz-15S/50Hz
Direction	2 way or 3 way			Weight	0.30 Kg
lifecycle	40,000			Motor Insulation	E Class
				RMS Value	10mA

Dimensions and Wiring



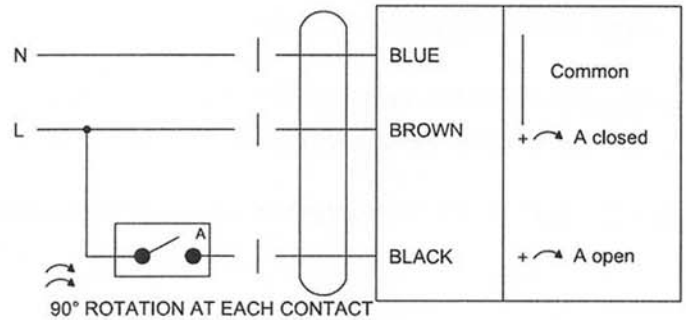
Water Flow	ACTUATOR		VALVE		MODELS		DIMENSIONS (mm)				
	Type	Torque	Dim.(in)	CV	Actuator	Valve	A	B	C	D	E
2Way	ON/OFF	2.5	1/2"	5.6	CBA-2A2FS	CBV-2W050FN	15	63	62	98	38
			3/4"	9.3		CBV-2W075FN	20	63	64	98	38
			1"	17.5		CBV-2W100FN	25	63	68	103	38
3 Way	ON/OFF	2.5	1/2"	5.6		CBV-3W050TS	15	63	62	104.5	38
			3/4"	9.3		CBV-3W075TS	20	63	70	107	38
			1"	17.5		CBV-3W100TS	25	63	82.5	103	38

Notes: 1. Torque is in newton meter 2. CV represent the flow capacity in GPM with a pressure drop of 1 PSI



Thermostat Wiring

SW1=Energy Switch



L: Brown, N: Blue, Control Wire (on/off)- Black

- 1- The valves are shipped in open position.
- 2- The actuator can be placed either on the upper or lower side of the pipeline.
- 3- A manual valve should be installed before the motorized ball valve for the purpose of maintenance.
- 4- When the system is properly installed, make sure the input voltage is correct.
- 5- When connecting the actuator to power lines, make sure not to reverse the order of the live and neutral wires. Otherwise, the actuator will not work properly.

VALVE NOMENCLATURE

C	CETO
B	BALL
V	VALVE
2W	2 WAY (2W= 2WAY & 3W = 3 WAY)
50	DIM (1/2"=050, 3/4"= 075 & 1"= 100)
F	F-FEMALE, M-MALE
N	N:NPT, B: BPT PIPE THREAD

ACTUATOR NOMENCLATURE

C	CETO
B	BALL VALVE
A	ACTUATOR
2	VOLTAGE (0=24V, 1=115V & 2=220V)
A	CONNECTION TYPE (A= 24MM, B= 36MM & C= 42MM)
2	TORQUE (025=2.SN.M, 040=4.0N.M & 060=6.0N.M)
F	MODULATING (M=MODULATING, P= 3 POINT, F=ON/OFF)
S	SYNCHRONOUS (S=SYNCHRONOUS & R=REVERSIBLE)

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