

FLOTECS
2/3 Way Brass
Control Valves-
Threaded



Description

Flotecs motorized ball valve consists of on/off type or 3-point type actuator, which have compact structure, stable operation, excellent capacity of water stoppage, large water flow rate, zero dirt block and low torque. Winner motorized ball valves are widely used in HVAC system, heating system, water treatment system and some industrial equipment.

Application

HVAC system, Heating system, Water treatment system, Industrial equipment.

Technical data

Valve body:

Medium: Cold/Hot water, with 50% glycol

Rated pressure: PN20

Temperature of medium: -20°C~110°C for Brass

Pipe connector: Internal thread

Brass: BSP and NPT (only 2 way, 3/4", Full port and reducing port)

Size: 1/2", 3/4" and 1"

Valve type: 2-way and 3-way

Material:

Valve body: Forged brass, Hpb59-1

Ball: SS304 or Brass chrome plating

Ball Seal: EPDM+PTFE

Stem: FKM O-rings, with 3 O-rings

Forged Brass Model No.		Inner Dia.	Inch	Kvs(m ³ /h)	Maximum torque(N.m)	Traffic characteristics	Net Weight
FT2WB15	2-way	12mm	1/2"	6.15	1.2	Quick opening type	179g
FT2WB20		15mm	3/4"	10.5	1.5	Quick opening type	255g
FT2WB25		20mm	1"	16.1	2.2	Quick opening type	424g
FT3WB15	3-Way	10mm	1/2"	3.9/2.2	1.5	Quick opening type	236g
FT3WB20		12.5mm	3/4"	6.80/4.2	2.0	Quick opening type	382g
FT3WB25		17mm	1"	15.8/7.5	2.8	Quick opening type	598g

BSP and NPT threads are Available.

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Actuator

FT6-A3	AC230/110/24V, 50/60Hz, 3-point type;
FT6-A3...M	AC230/110/24V, 50/60Hz, 3-point type, full open feedback and full close feedback;
FT6-A3...V	AC230/110/24V, 50/60Hz, on/off type;
FT6-A3...V-M	AC230/110/24V, 50/60Hz, on/off type, full open feedback and full close feedback;
FT6-A320Y	AC230V, Capacitor-Return on/off type;
FT6-A320Y-M	AC230V, Capacitor-Return on/off type; full open feedback and full close feedback;
Angle of rotation: 90°	
Protect rank: IP55/IP54	
Ambient temp. range: -5...+60°C; 0...90%RH	

Function (3-point or on/off type)

The actuator is controlled by a modulating on/off or 3-point control signal, using reversible synchronous motor and gear speed reducer drive to fix and lock.

FT6-A3... 3-point type

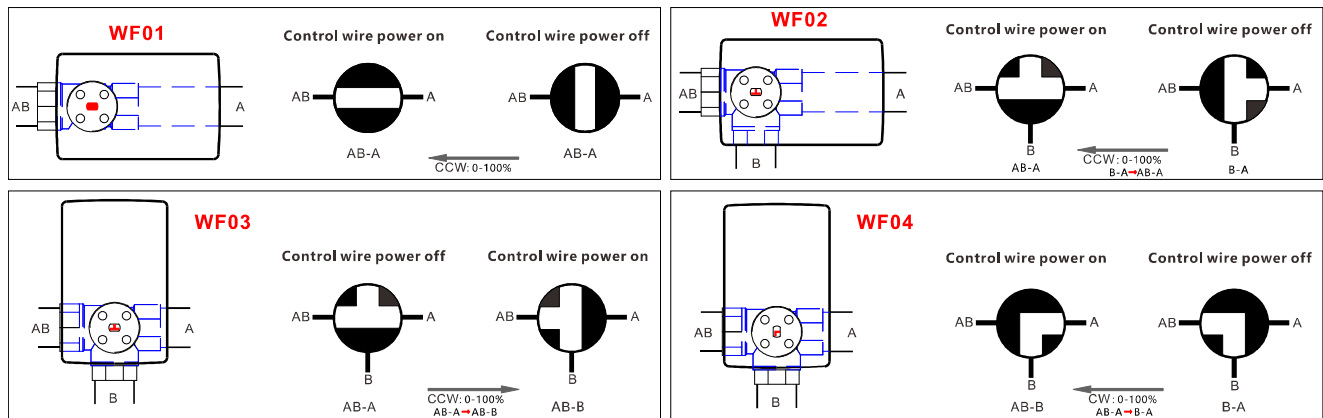
Black wire is power on	Valve closed
Brown wire is power on	Valve open
Black or brown wire is power off	Valve keep the current position
Blue wire is connected to the null wire.	Also can be used as on/off type.

FT6-A3...V on/off type

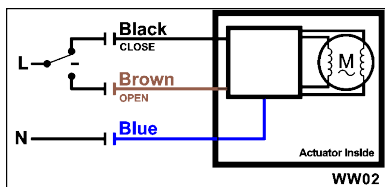
Black wire is the control wire.	power on: valve open, power off: valve close
Brown wire is connected to the power wire.	
Blue wire is connected to the com.	Only can be used as on/off type.

Model No.	Working Voltage	Actuator type	Output torque	Consumption	On/off time	Valve body	Net Weight
FT6-A320	230VAC±15% 50/60Hz	3-point or on/off	>3.5 N.m	7W	50Hz:16S 60Hz:12S	FT2WB15 FT2WB20 FT2WB25 FT3WB15 FT3WB20 FT3WB25	400g
FT6-A320-M		3-point or on/off, feedback					420g
FT6-A320V		On/off					400g
FT6-A320V-M		On/off, feedback					420g
FT6-A310	110VAC±15% 50/60Hz	3-point or on/off					390g
FT6-A310-M		3-point or on/off, feedback					410g
FT6-A310V		On/off					400g
FT6-A310V-M		On/off, feedback					420g
FT6-A302	24VAC±15% 50/60Hz	3-point or on/off		400g			
FT6-A302-M		3-point or on/off, feedback		420g			
FT6-A302V		On/off		400g			
FT6-A302V-M		On/off, feedback		420g			
FT6-A320Y	100-250VAC	Capacitor-Return on/off		5~30s	320g		
FT6-A320Y-M		Capacitor-Return On/off, feedback		5~30s	340g		
FT6-A302L	24VAC/DC	3-point or on/off		3W	<5s	320g	
FT6-A302-M	±15%	3- point or on/off, feedback				340g	
FT6-A320L	230VAC±15%	On/off				310g	
FT6-A320L-M		On/off, feedback				330g	

Flow



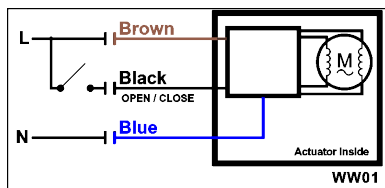
Wiring



Valve (ON): Brown wire
Valve (OFF): Black wire
Com(N): Blue wire

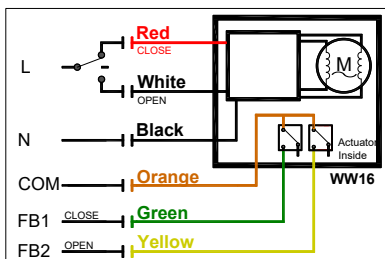
Black wire and brown wire are prohibited to get electricity at the same time!!!

FT6-A320, FT6-A310, FT6-A302, FT6-A302L



Control wire(ON or OFF): Black wire
Power wire(L): Brown wire
Common port(N): Blue wire

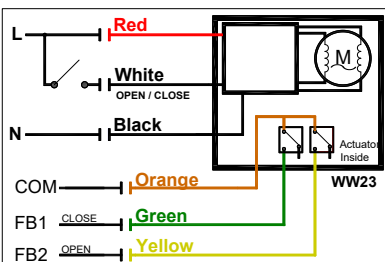
FT6-A320V, FT6-A310V, FT6-A302V, FT6-A302VL



Valve (ON): Red wire
Valve (OFF): White wire
Com(N): Blue wire

FB1: fully close position feedback, 3A@30VDC; 0.5A@125VAC; Green wire FB2: fully open position feedback, 3A@30VDC; 0.5A@125VAC; Yellow wire Com: Orange wire

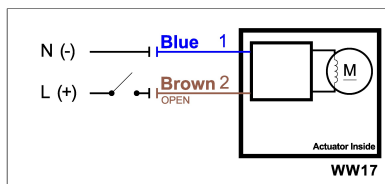
FT6-A320-M, FT6-A310-M, FT6-A302-M, FT6-A302L-M



Control wire: Red wire
Power wire(L): White wire
Common port(N): Black wire

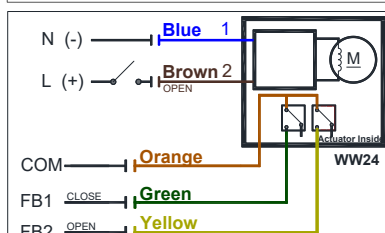
FB1: fully close position feedback, 3A@30VDC; 0.5A@125VAC; Green wire FB2: fully open position feedback, 3A@30VDC; 0.5A@125VAC; Yellow wire Com: Orange wire

FT6-A302V-M, FT6-A310V-M, FT6-A302V-M, FT6-A302VL-M



On-Off wire (L/+) : Brown wire
N wire or - : Blue wire

FT6-A320S



On-Off wire (+/L) : Brown wire
N wire or - : Blue wire
COM : Orange wire

FB1: fully close position feedback, 3A@30VDC; 0.5A@125VAC

FB2: fully open position feedback, 3A@30VDC; 0.5A@125VAC

FT6-A320S-M

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FLOTECS
Fluid/Flue solutions[®]

www.flotecs.co.uk / sales@flotecs.co.uk

