


JOB NAME:
CONTRACTOR:
JOB LOCATION:
APPROVAL:
ENGINEER:
CONTRACTOR P.O.:
APPROVAL:
REPRESENTATIVE:

8E3TPVC - 8E3LPVC

**PVC-BV3T OR PVC-BV3L DIRECT MOUNT,
3-WAY PVC, FULL PORT BALL VALVE W
ELECTRIC ACTUATOR SIZES**

1/2" TO 2"

8E3TCPVC - 8E3LCPVC

**PVC-BV3T OR PVC-BV3L DIRECT MOUNT,
3-WAY CPVC, FULL PORT BALL VALVE W
ELECTRIC ACTUATOR SIZES**

1/2" TO 2"

*001	12V AC/DC	*002	24V AC/DC	*003	100-240V AC
01	BATTERY BACKUP	*02*	POSITIONER	*04*	BATTERY BACKUP W POSITIONER

SPECIFICATIONS

The valve body, stem, ball and unions shall be made of PVC compound which shall meet classification 12454 of ASTM D 1784. The ball seats shall be made of PTFE and the O-Ring seals shall be made of EPDM.

The PVC IPS/Socket connectors shall conform to the dimensional standards ASTM D2466 and ASTM D2467, and the CPVC shall conform to the dimensional standard ASTM F439 (2-way only). The NPT PVC connectors shall conform to the dimensional standards of ASTM D2464, ASTM F1498, and ANSI B1.20.1 thread depths.

The electric actuator shall be made from a light weight technopolymer housing, incorporate two auxiliary limit switches, a torque limiter, heater & thermostat, a 75% duty cycle, dual voltage motors, and a NEMA 4 enclosure.

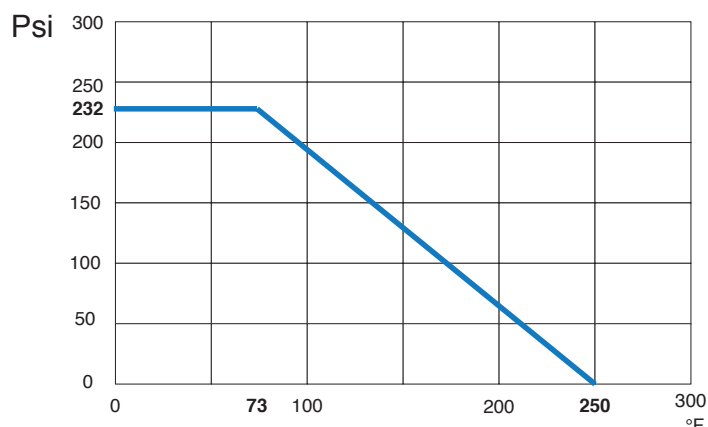
ACTUATOR FEATURES

- NEMA 4, 4X Housing
- CSA, UL approved
- 12V/24V AC/DC and 100-240V AC Models Available
- ISO 5211 dual patterns
- VB015 -12/24V AC - 50% Duty Cycle
- VB030-VB110 - 12/24V DC and 100-240V AC - 75% Duty Cycle
- High-Strength, Impact Resistant IP67 Technopolymer Housing
- Temperature Range -4°F to 131°F
- PG11 Electrical Connection/Optional 1/2" Conduit

VALVE FEATURES

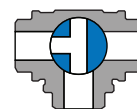
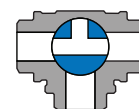
- 3-Way Full Port
- Size Range 1/2" Through 2"
- NPT and Socket Ends included
- EPDM Seats and Seals
- Dual Union Nut Locks
- 232 PSI at 73°F
- "L" and "T" Port Viton Seats and Seals Available

PRESSURE - TEMPERATURE CHART FOR SERIES PVC-BV3

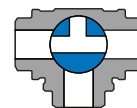
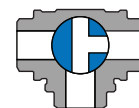


FLOW PATH VARIATIONS

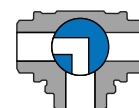
T-PORT FLOW PATH A


POSITION 1

POSITION 2

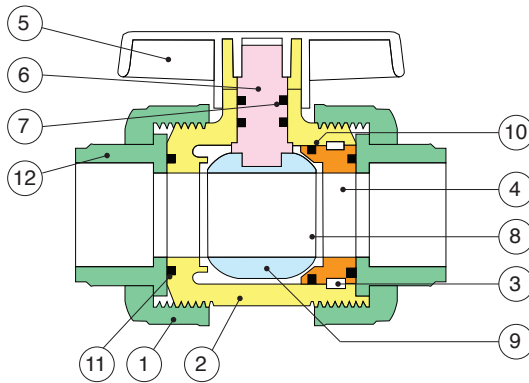
T-PORT FLOW PATH B


POSITION 1

POSITION 2

L-PORT FLOW PATH A


POSITION 1

POSITION 2

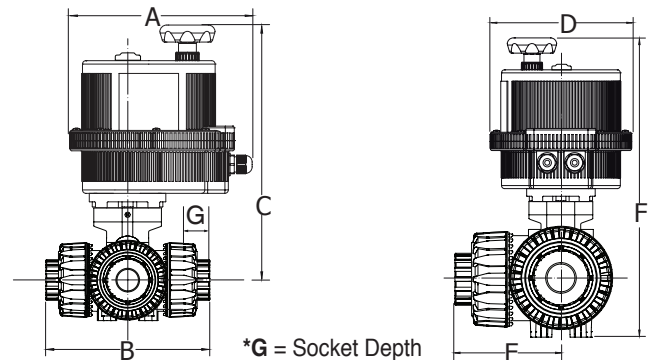
BILL OF MATERIALS FOR PVC-BV3* /CPVC-BV3*



N POS	PART NAME	MATERIAL	N PCS
1	UNION NUT	PVC/CPVC/PP	3
2	BODY	PVC/CPVC/PP	1
3	LOCKING STRIP	PVDF	1
4	CARRIER	PVC/CPVC/PP	1
5	HANDLE	ABS	1
6	STEM	PVC/CPVC/PP	1
7	STEM O-RING	EPDM/VITON/Silicone	2
8	BALL SEAT	PTFE	3
9	BALL	PVC/CPVC/PP	1
10	CARRIER O-RING	EPDM/VITON/Silicone	1
11	FACE O-RING	EPDM/VITON/Silicone	3
12	CONNECTOR	PVC/CPVC/PP	3

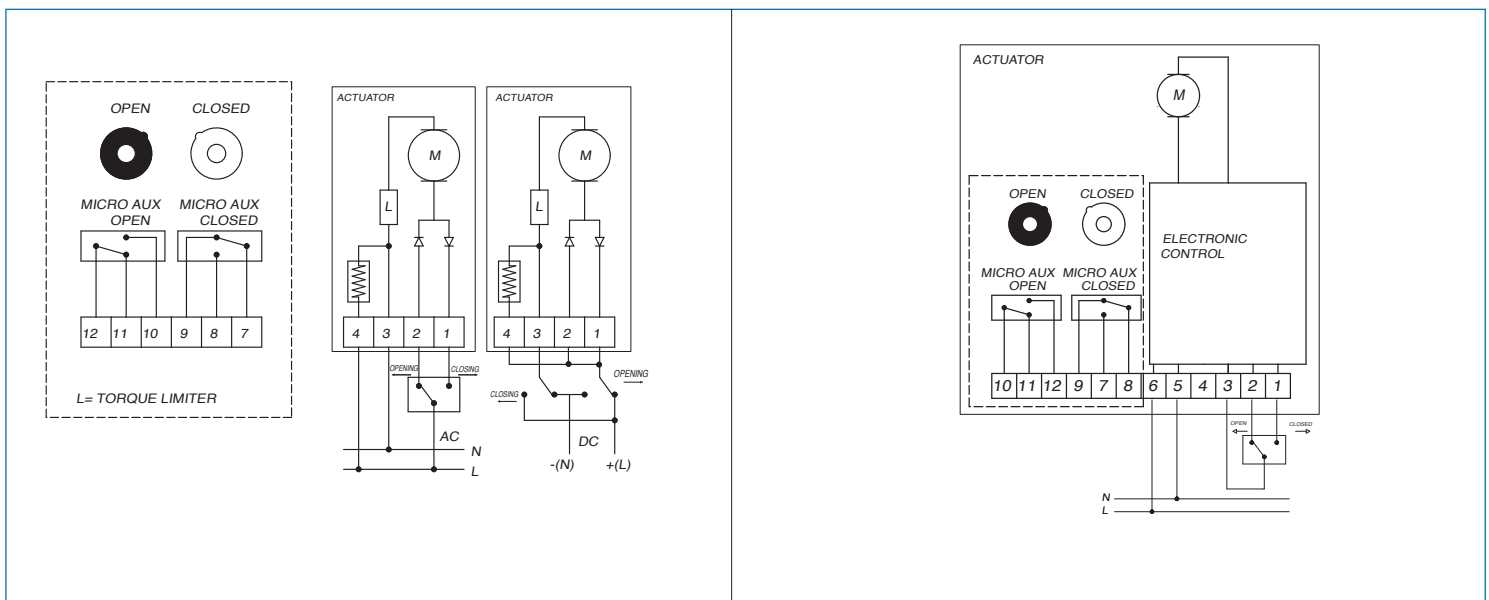
DIMENSIONS

Size	A	B	C	D	E	F	G	ACT	Wt.	Cv by Position		
										A	B	C
1/2"	6.41	5.20	7.85	4.84	2.60	8.99	0.89	VB015	6.5	4.55	43.7	5.11
3/4"	6.41	6.27	8.46	4.84	3.14	9.82	1.00	VB015	6.8	10.2	26.6	10.5
1"	6.41	6.85	8.48	4.84	3.43	10.02	1.13	VB015	7.1	17.2	53.2	18.6
1-1/4"	6.41	8.07	9.39	4.84	4.04	11.20	1.26	VB015	7.6	32.2	73.5	33.3
1-1/2"	7.48	8.96	11.49	6.18	4.48	11.71	1.38	VB030	7.6	42.0	119	43.4
2"	7.48	10.51	11.89	6.18	5.25	14.33	1.50	VB030	9.6	84.0	224	85.4



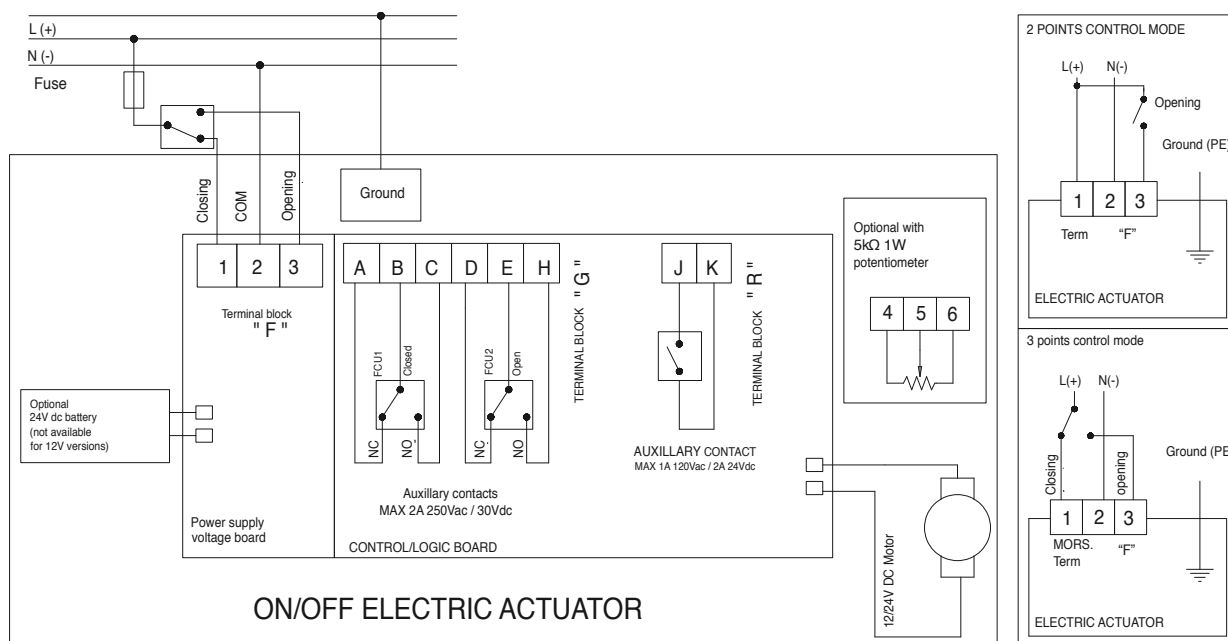
ON/OFF WIRING DIAGRAM - VB015

12V AC/DC, 24V AC/DC & 100-240VAC



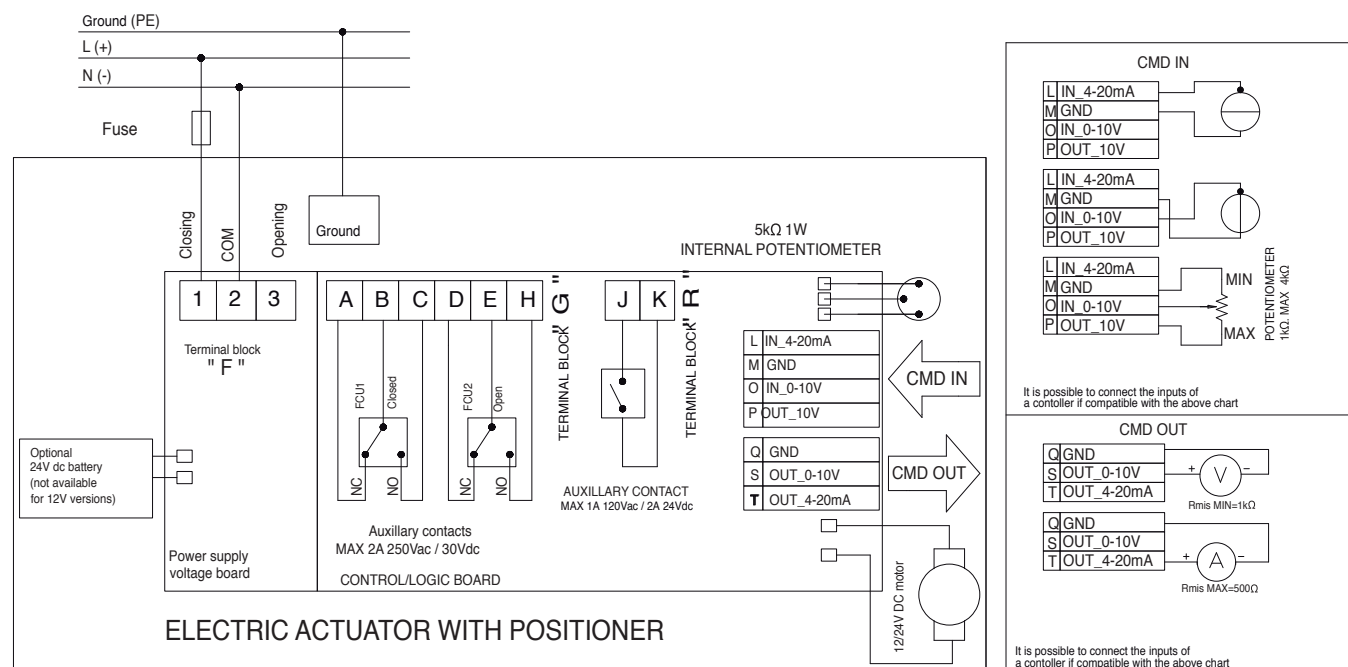
ON/OFF WIRING DIAGRAM - VB030

12V AC/DC, 24V AC/DC & 100-240VAC



POSITIONER WIRING DIAGRAM - VB030

12V AC/DC, 24V AC/DC & 100-240VAC



The power supply COM signal (pin "2" terminal block "F") cannot share the same electrical command ground signal (pin "GND" terminal block "CDM IN") or feedback ground signal (pin "GND" terminal block "CDM OUT").