



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

M8E069-00*

955N STANDARD PORT DIRECT MOUNT, 3-WAY STAINLESS STEEL, "T" PORT BALL VALVE W/ METAL ELECTRIC ACTUATOR
SIZES 1/2" TO 3"

M8E070-00*

965N STANDARD DIRECT MOUNT, 3-WAY STAINLESS STEEL, "L" PORT BALL VALVE W/ METAL ELECTRIC ACTUATOR
SIZES 1/2" TO 3"

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

SPECIFICATIONS

The M8E069/M8E070 series features the 955N (T-port) or 965N (L-port) in a 3-way ASTM A351-CF8M, standard port ball valve, with four seats, and a T ported configuration. The 955N valve is also an ISO 5211 direct mount style, with four seats. The four seats allow one to use any port as an entry port and offers an optional straight through flow and shut-off capabilities.

The VBM electric actuator has a NEMA 4 housing and features a raised position indicator. In addition, the VBM series also incorporates two extra limit switches, a heater and thermostat, 1/2" conduit connections and a 75% duty cycle motor.

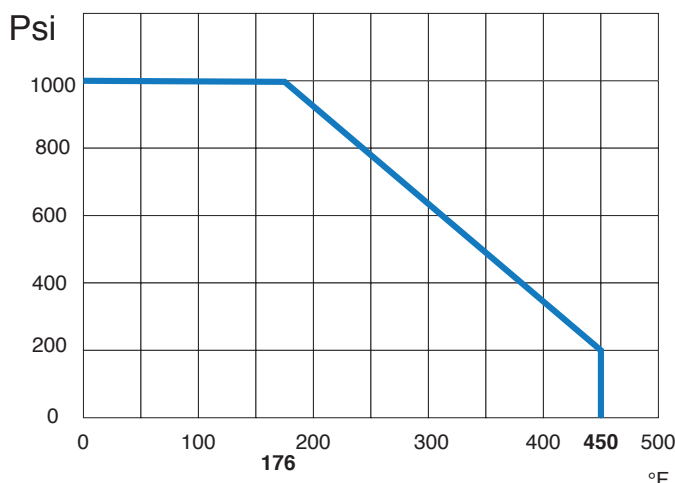
ACTUATOR FEATURES

- Dual Voltages
- CSA, UL approved
- 24V AC/DC and 100-240V AC Models Available
- ISO 5211, F03/F05 base with 11mm female drive
- 75% Duty Cycle
- Anti-condensation heater, (when red wire is connected to power)
- High-Strength, Die Cast Aluminum Powder Coated Housing
- Temperature Range -4°F to 131°F
- NEMA 4 Housing
- Two Auxiliary Switches Standard
- Torque limiter standard

VALVE FEATURES

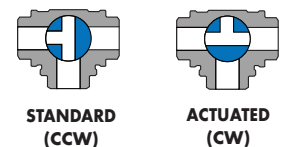
- CF8M Stainless Steel
- Full Port, Sizes 1/2" to 3"
- ISO 5211 pad and square stem
- Sizes 2-1/2" to 3" requires bracket
- Pressure rating to 1000psi (1/2" to 1-1/4"), 800 psi (1-1/2" to 3")
- Temperature range -4°F to 450°F
- Blow-out proof stem
- Self adjusting stem packing
- 100% electronically tested in the open and closed position @ 80 Psi

PRESSURE - TEMPERATURE CHART FOR SERIES 955N & 965N

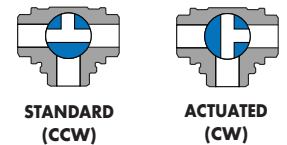


FLOW PATH VARIATIONS*

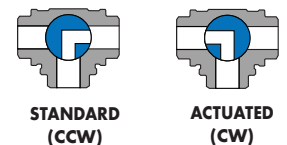
T-PORT FLOW PATH A



T-PORT FLOW PATH B

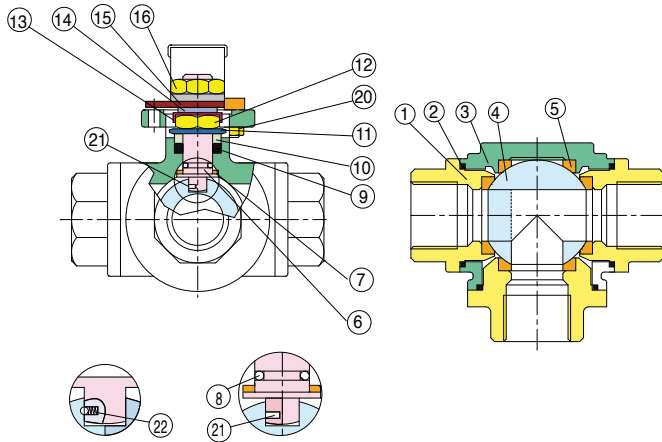


L-PORT FLOW PATH A



* Flow paths above are for actuated packages only. For manual valves flow paths, please reference page 22 of the N. 193 Hand-operated valve catalog.

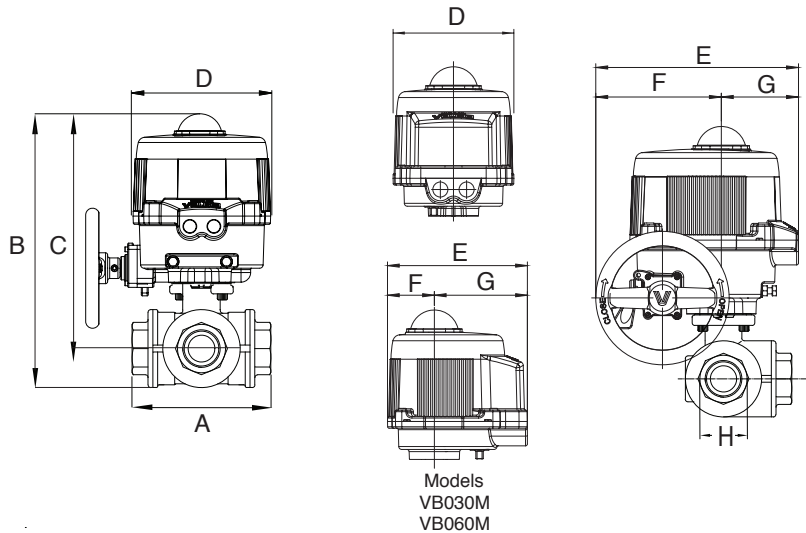
BILL OF MATERIALS FOR 956N & 966N



N POS	PART NAME	MATERIAL	N PCS
1	END CAP	A351 CF8M	3
2	GASKET	P.T.F.E.	3
3	BODY	A351 CF8M	1
4	BALL	SS316	1
5	SEATS	R.P.T.F.E.	4
6	STEM	SS316	1
7	STEM SEAL	R.P.T.F.E.	1
8	O-RING	FKM (Viton®)	1
9	STEM PACKING	P.T.F.E.	1
10	GLAND	SS304	1
11	DISK WASHER	SS301	2

N POS	PART NAME	MATERIAL	N PCS
12	STEM NUT	SS304	1
13	NUT STOP	SS304	1
14	SPACE WASHER	SS304	1
15	PLATE STOP	SS304	1
16	HANDLE NUT	SS304	1
17	HANDLE	SS304	1
18	HANDLE SLEEVE	VINYL	1
19	STOPPER	SS304	1
20	PIN NUT	SS304	1
21	INSERT PIN	SS316	1
22	ANTISTATIC DEVICE	SS316	1

DIMENSIONS

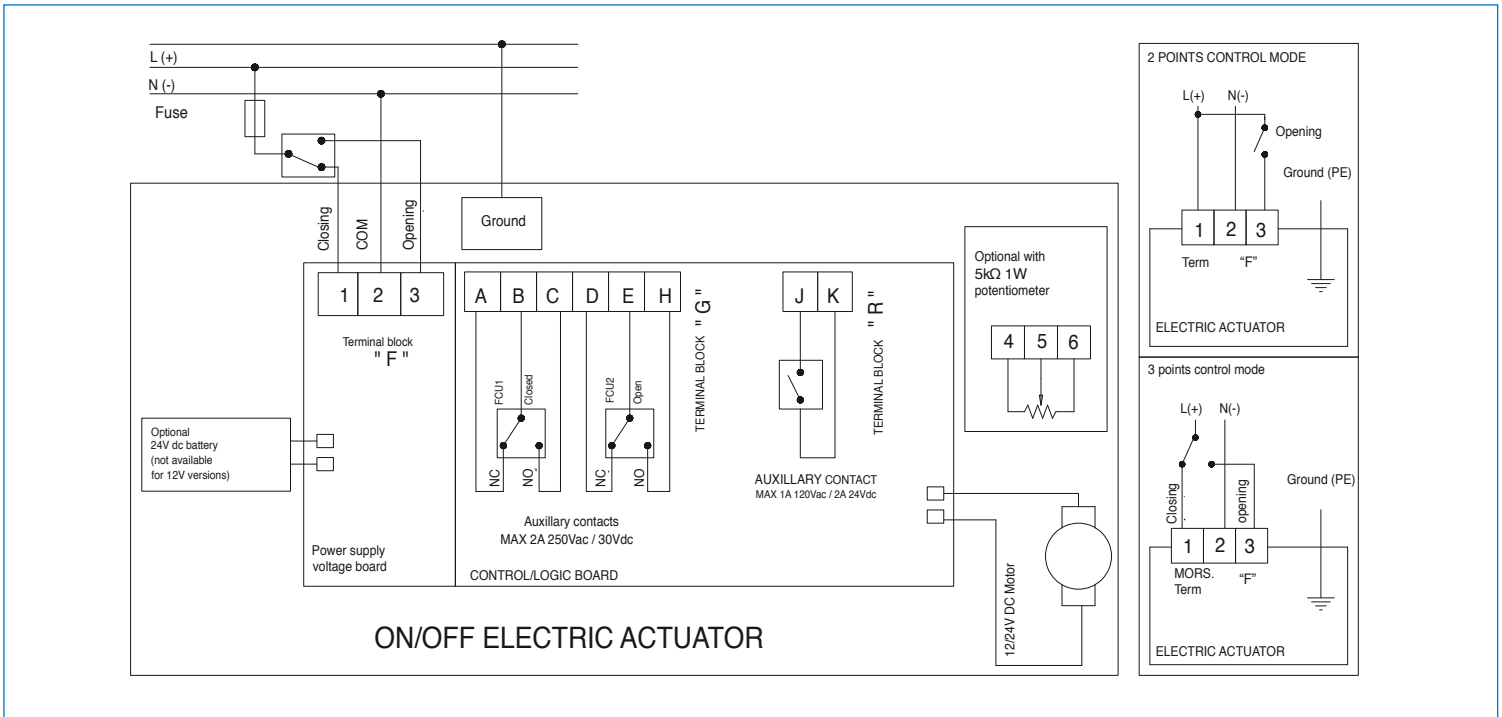


Size	A	B	C	D	E	F	G	H	ACT.
1/2"	0.396	9.93	9.28	6.34	7.36	2.48	4.88	2.83	VB030M
3/4"	0.75	10.22	9.48	6.34	7.36	2.48	4.88	3.26	VB030M
1"	1.00	10.22	9.48	6.34	7.36	2.48	4.88	3.89	VB030M
1-1/4"	1.25	1.82	10.84	6.93	7.76	2.48	5.28	4.40	VB060M
1-1/2"	1.50	12.26	11.14	6.93	7.76	2.48	5.28	4.92	VB060M
2"	2.00	13.86	12.56	10.63	9.68	6.50	3.98	5.86	VB110M *
2-1/2"	2.50	14.94	13.31	10.63	9.68	6.50	3.98	6.64	VB190M *
3"	3.00	16.39	14.31	10.63	9.68	6.50	3.98	7.68	VB190M *

* Includes Manual Handwheel

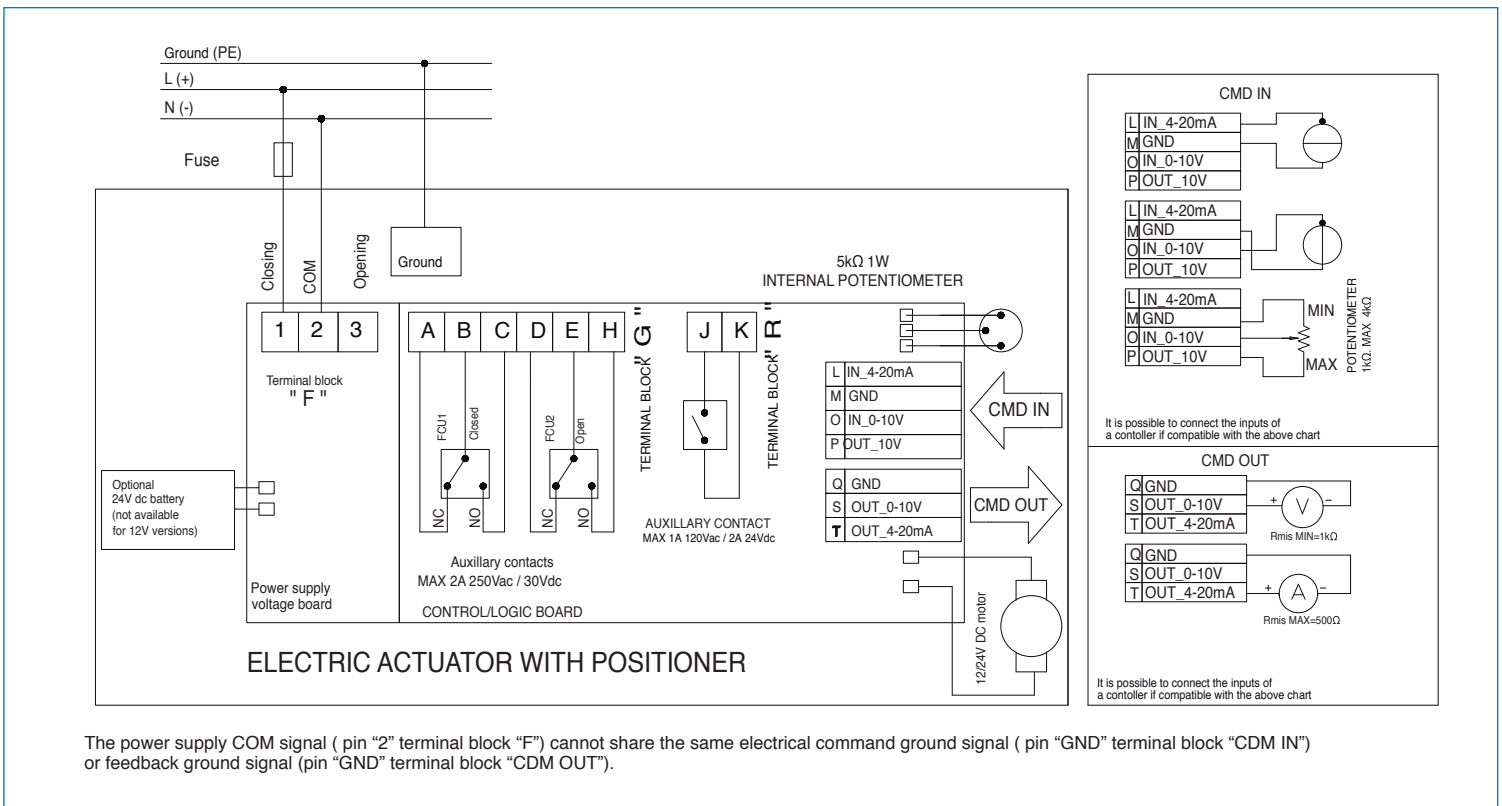
ON/OFF WIRING DIAGRAM - VB030M -VB190M

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



POSITIONER WIRING DIAGRAM - VB030M -VB190M

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").