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

M8E082-00*

720017 2-WAY CARBON STEEL, ANSI 150 FLANGED, WAFER STYLE, FULL PORT BALL VALVE WITH VALBIA METAL ELECTRIC ACTUATOR AND BRACKET

SIZES 1/2" TO 6"

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

SPECIFICATIONS

The Bonomi M8E082 series electric package features the 720017-carbon steel wafer, full port ANSI 150 flanged ball valve, in sizes 1/2"-6". This space saving valve also meets ANSI 16.34, ANSI 16.5, NACE MR 0175/ISO 15156 and NACE MR 0103. It has RTFE seats, and an ISO 5211 mounting pad.

The Valbia VBM series metal actuator housing is made from die cast aluminum, and standardly features dual motors, two extra limit switches, a heater & thermostat, a torque limiter, dual ISO patterns, female star drive, a high-profile dome position indicator, 1/2" conduit connections, and a 75% duty cycle motor. The actuator is NEMA 4 rated. Options include positioning boards, battery backups, or a combination of the two.

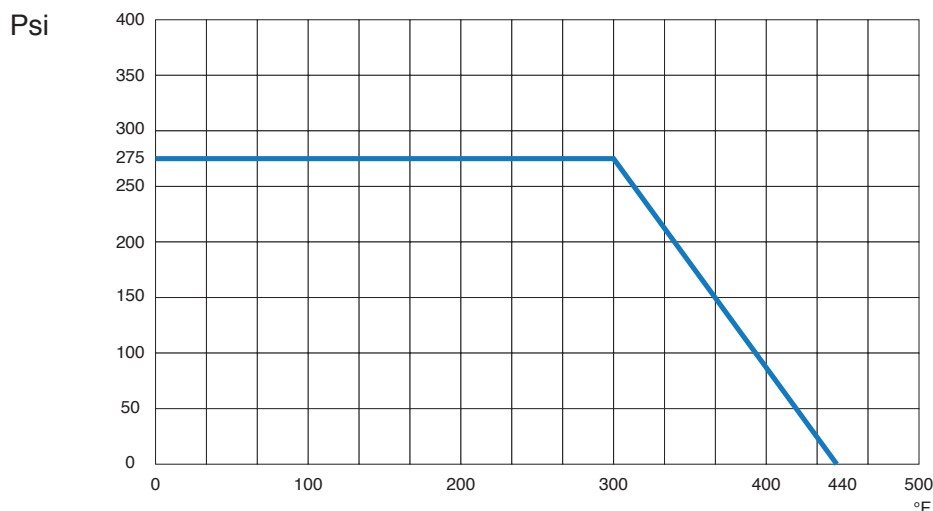
ACTUATOR FEATURES

- Dual Voltages
- 24V AC/DC and 100-240V AC
- ISO 5211 dual patterns
- 75% Duty Cycle
- 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
- 1/2" Conduit connections

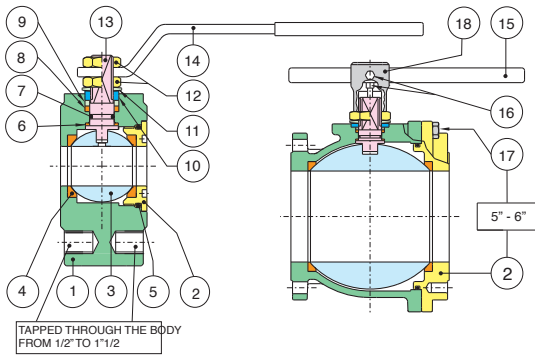
VALVE FEATURES

- Carbon steel, ANSI class 150 flanged
- Full port, sizes 1/2" to 6"
- Temperature range -4°F to 400°F
- Blow-out proof stem
- R.P.T.F.E. seats, packing and thrust washer
- Space saving design
- 100% tested
- TUV T.A. Luft approved
- ANSI B16.34 design
- ISO 5211 mounting pad with double "D" stem

PRESSURE - TEMPERATURE CHART FOR SERIES 720017



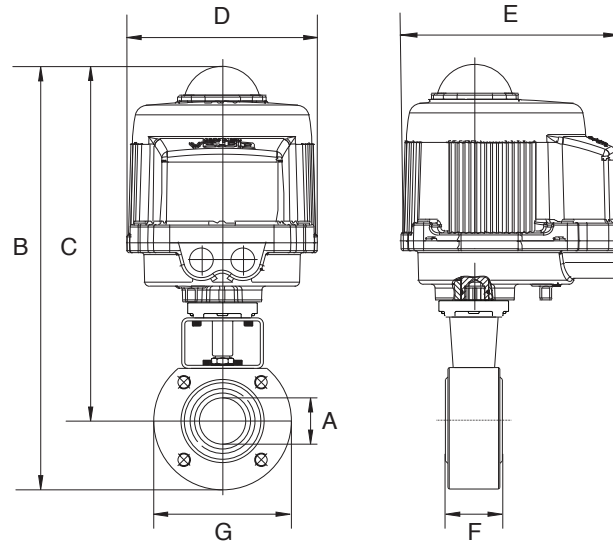
BILL OF MATERIALS FOR 720017



| N POS | PART NAME | MATERIAL | N PCS |
|-------|----------------|--------------------|-------|
| 1 | BODY | ASTM A105/WCB | 1 |
| 2 | END CONNECTION | ASTM A105/WCB | 1 |
| 3 | BALL | A479-304/A351 CF8M | 1 |
| 4 | BALL SEATS | R.P.T.F.E. | 2 |
| 5 | O-RING | FKM (Viton®) | 1 |
| 6 | THRUST WASHER | P.T.F.E. | 1 |
| 7 | RING | FKM (Viton®) | 1 |
| 8 | STEM SEAL | P.T.F.E. | 1 |
| 9 | PACKING GLAND | STEEL | 1 |
| 10 | END STOP | STEEL | 2-1 |

| N POS | PART NAME | MATERIAL | N PCS |
|-------|-----------------------|-----------|-------|
| 11 | SPRING WASHER | STEEL | 2 |
| 12 | NUT | STEEL | 2 |
| 13 | STEM | AISI 304 | 1 |
| 14 | HANDLE | STEEL | 1 |
| 15 | HANDLE DN 150-200 | STEEL | 1 |
| 16 | SCREW | STEEL | 2 |
| 17 | SCREW | STEEL | 8-12 |
| 18 | BODY HANDLE DN150-200 | CAST IRON | 1 |

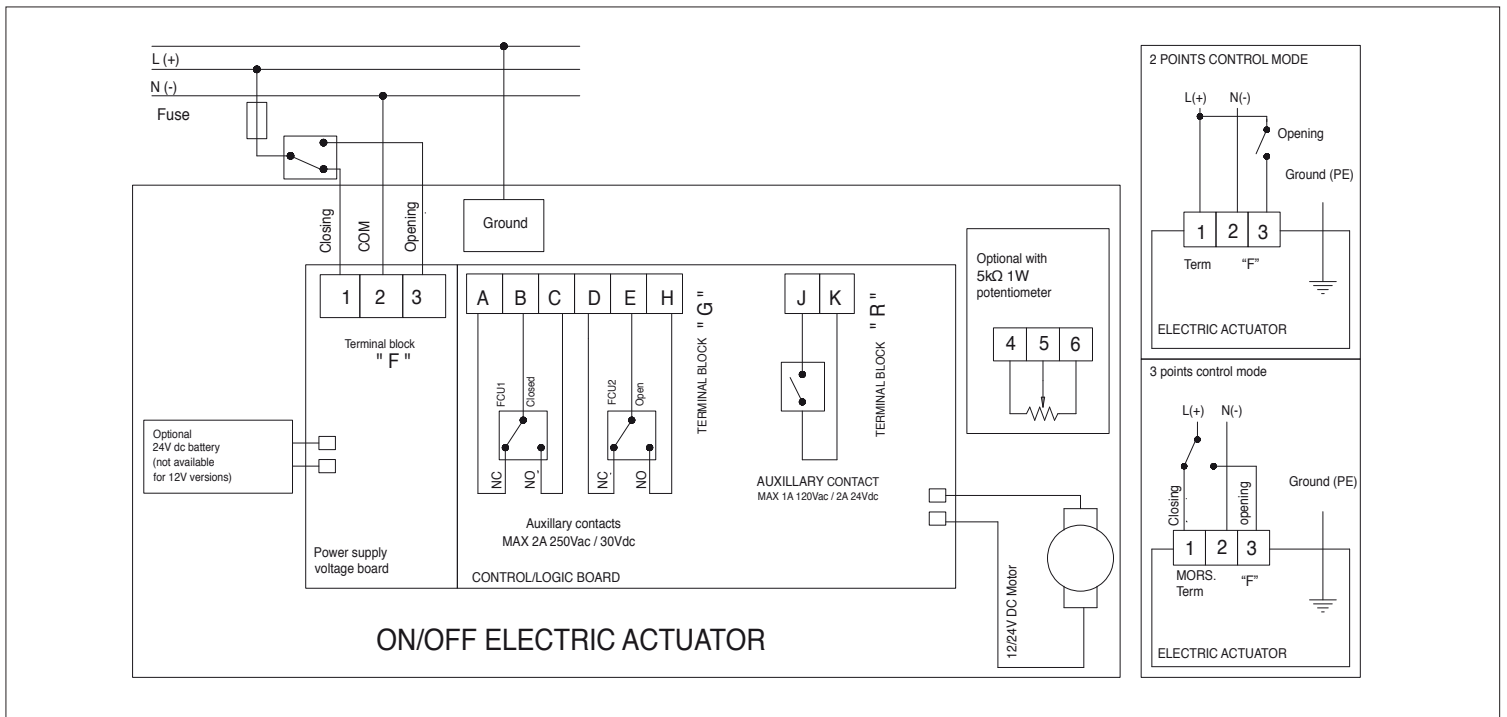
DIMENSIONS



| Size | 1/2" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" | 2-1/2" | 3" | 4" | 6" |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| A | .500 | .750 | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 | 3.00 | 4.00 | 6.00 |
| B | 11.39 | 11.72 | 12.43 | 12.70 | 14.59 | 15.22 | 19.14 | 19.94 | 21.63 | 25.20 |
| C | 9.90 | 10.09 | 10.50 | 10.67 | 12.12 | 14.47 | 15.83 | 16.31 | 17.30 | 18.92 |
| D | 6.34 | 6.34 | 6.34 | 6.34 | 6.93 | 6.93 | 10.63 | 10.63 | 10.63 | 10.63 |
| E | 7.36 | 7.36 | 7.36 | 7.36 | 7.76 | 7.76 | 10.47 | 10.47 | 10.47 | 10.47 |
| F | 1.37 | 1.57 | 1.81 | 2.12 | 2.51 | 3.22 | 4.05 | 4.80 | 5.98 | 7.71 |
| G | 3.54 | 3.93 | 4.33 | 5.11 | 5.51 | 5.90 | 6.88 | 7.48 | 8.66 | 9.84 |
| Act. | VB030M | VB030M | VB030M | VB030M | VB060M | VB060M | VB110M | VB110M | VB190M | VB190M |

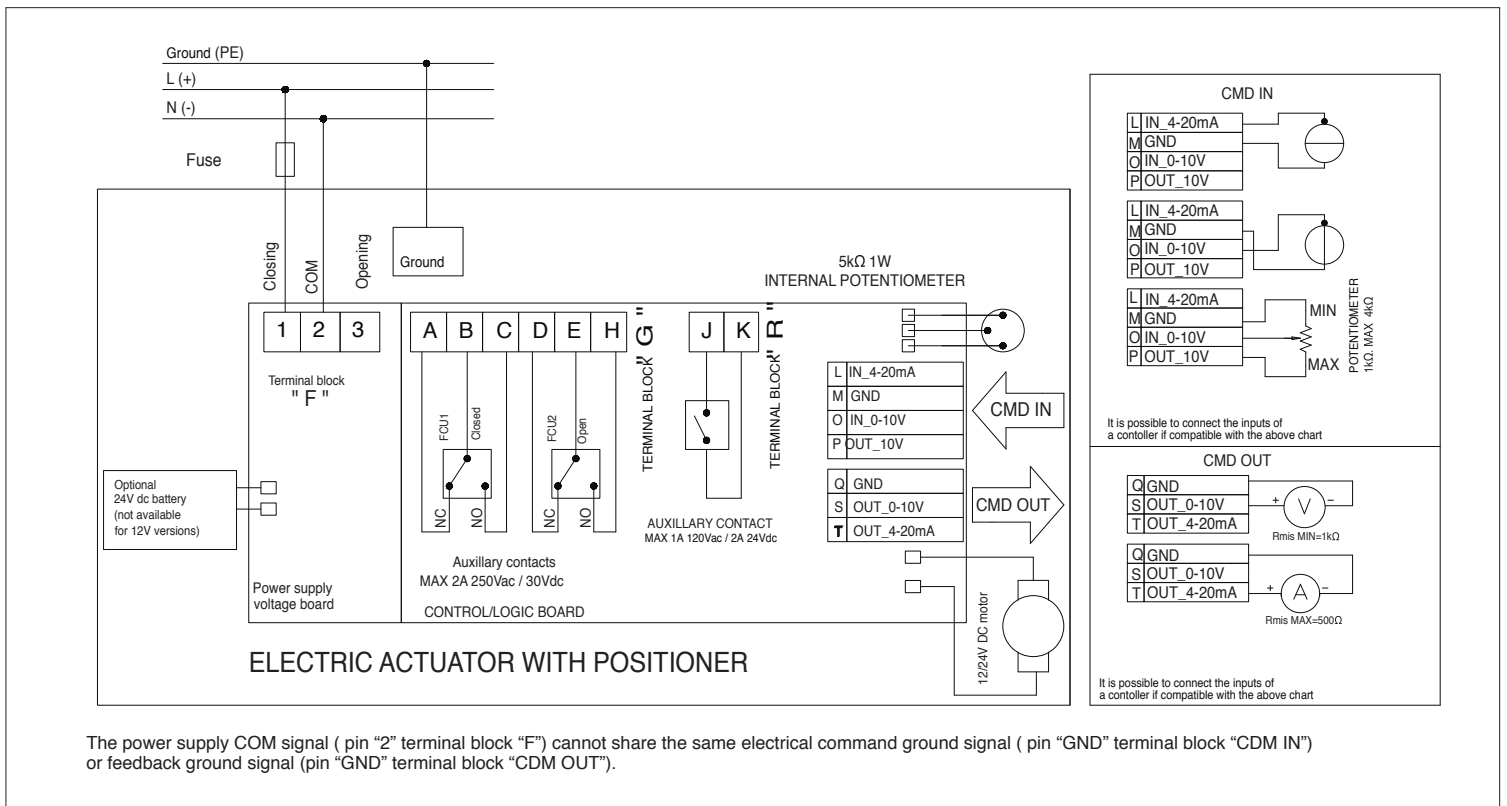
ON/OFF WIRING DIAGRAM - VB030 -VB190

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



POSITIONER WIRING DIAGRAM - VB030 -VB190

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").