



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

## M8E0740H-00\* - M8E0741H-00\* - M8E0742H-00\*

FNPT THREADED      SOCKET WELD      BUTT WELD

**740LL FULL PORT, HIGH PRESSURE DIRECT MOUNT 2-WAY, 3-PIECE STAINLESS STEEL WITH ENCAPSULATED BOLTS BALL VALVE IN NPT, SW OR BUTT WELD W/VALBIA METAL ELECTRIC ACTUATOR**

**SIZES 1/4" TO 1"**

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

## SPECIFICATIONS

The M8E0730/M8E0731/M8E732 series packages feature a stainless steel high performance three-piece full port, encapsulated bolt style, to 3600 psi ball valves. The valve also incorporates an ISO 5211 direct mount pad with square stem. Further, the valve has high temperature PEEK seats, conforms to ANSI 16.34, ANSI B1.20.1 Thread depths, and NACE MRO 175.

The Valbia VBM electric actuator has a rugged NEMA 4 die cast aluminum housing and features a raised or dome position indicator. In addition, the VBM series also incorporates dual voltage motors, two extra limit switches, a heater and thermostat, manual override, 1/2" conduit connections and a 75% duty cycle motor.

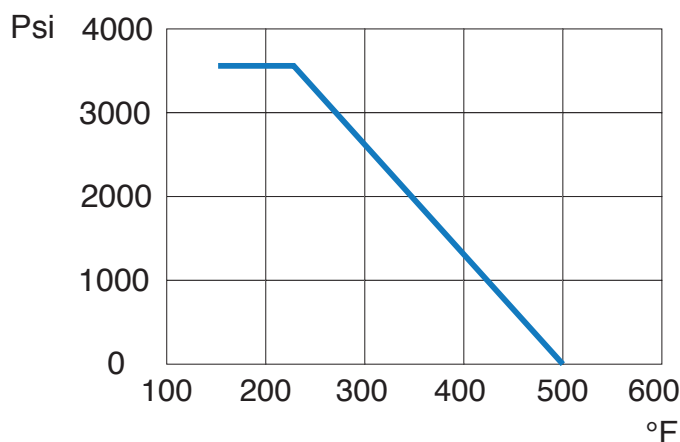
## ACTUATOR FEATURES

- Dual Voltages
- 24V AC/DC and 100-240V AC Models Available
- ISO 5211 dual patterns
- 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
- 1/2" conduit connections

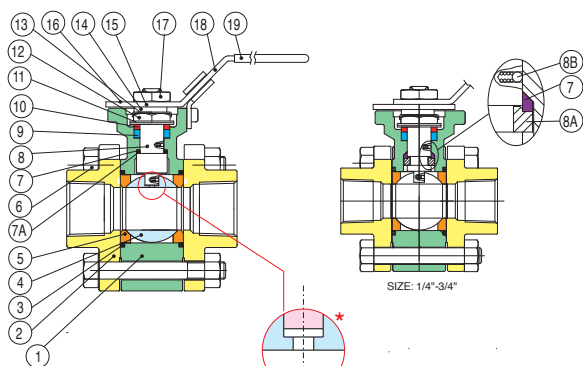
## VALVE FEATURES

- Sizes 1/4" to 1"
- High pressure to 3600 psi
- High temperature to 500°F max
- Direct mounting to ISO 5211/square stem
- PEEK seats
- Standard latch locking handle
- Conforms to ANSI B16.34, ANSI B1.20.1 thread depths, NACE MR0175

## PRESSURE - TEMPERATURE CHART FOR SERIES 740H/741H/742H



## BILL OF MATERIALS FOR 740H / 741H / 742H



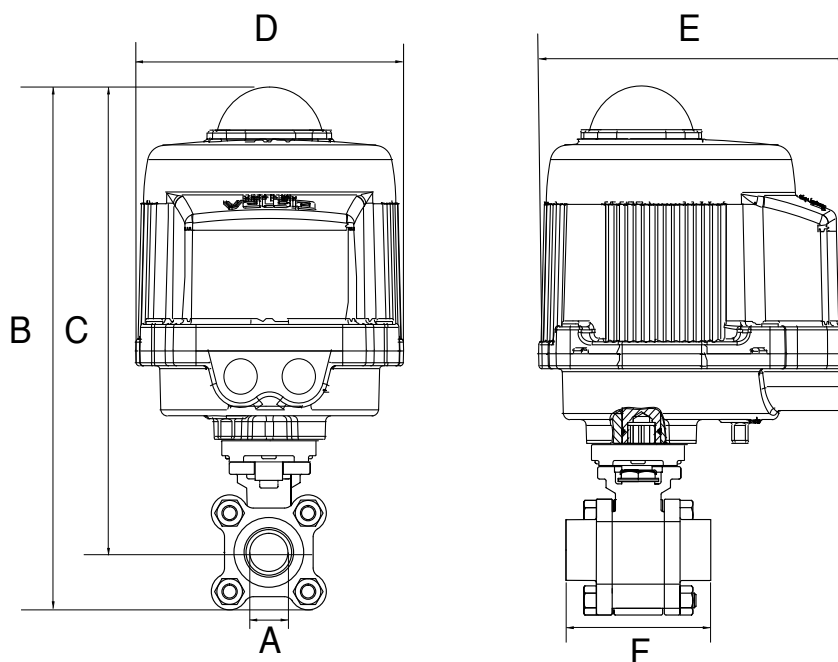
\* THERMAL RELIEF HOLE IN THE STEM SLOT.

| N POS | PART NAME       | MATERIAL | N POS |
|-------|-----------------|----------|-------|
| 1     | BODY            | CF8M     | 1     |
| 2     | END CAP         | CF8M     | 2     |
| 3     | GASKET BODY     | TFM      | 2     |
| 4     | BALL            | SS316    | 1     |
| 5     | BALL SEATS      | PEEK     | 2     |
| 6     | BOLTS           | SS304    | *     |
| 7     | THRUST WASHER   | TFM      | 1     |
| 7A    | THRUST WASHER   | PEEK     | 1     |
| 8     | STEM            | SS316    | 1     |
| 8A    | HALF SPLIT RING | SS316    | 1     |
| 8B    | ANTI-STATIC     | SS316    | 2     |

| N POS | PART NAME    | MATERIAL  | N POS |
|-------|--------------|-----------|-------|
| 9     | STEM PACKING | TFM       | 1     |
| 10    | GLAND WASHER | SS304     | 1     |
| 11    | DISK WASHER  | SS301     | 1     |
| 12    | STEM NUT     | SS304     | 1     |
| 13    | NUT STOP     | SS304     | 1     |
| 14    | SPACE WASHER | SS304     | 1     |
| 15    | PLATER       | SS304     | 1     |
| 16    | STOP IN      | SS304     | 1     |
| 17    | HANDLE NUT   | SS304     | 1     |
| 18    | HANDLE       | SS304     | 1     |
| 19    | HANDLE COVER | PLASTISOL | 1     |

\*VARIES WITH SIZE

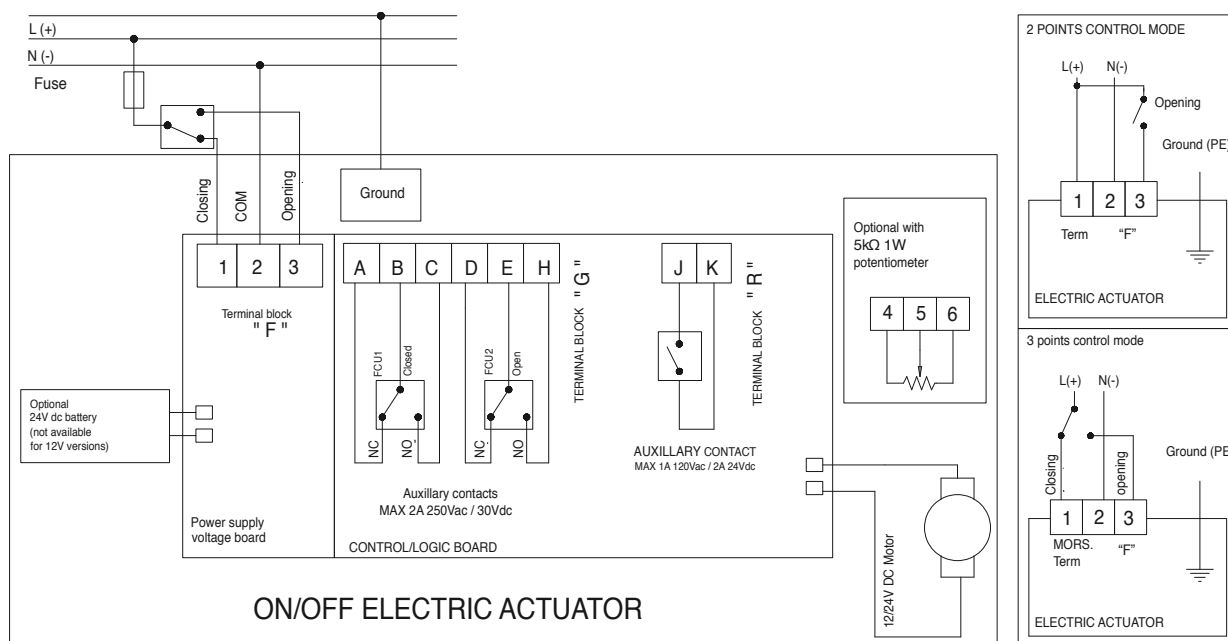
## DIMENSIONS



| Size | A    | B     | C     | D    | E    | F    | ACT.   |
|------|------|-------|-------|------|------|------|--------|
| 1/4" | .250 | 10.64 | 9.64  | 6.34 | 7.36 | 2.62 | VB030M |
| 3/8" | .375 | 10.64 | 9.64  | 6.34 | 7.36 | 2.62 | VB030M |
| 1/2" | .500 | 10.76 | 9.72  | 6.34 | 7.36 | 2.76 | VB030M |
| 3/4" | .750 | 11.07 | 9.92  | 6.34 | 7.36 | 3.62 | VB030M |
| 1"   | 1.00 | 11.43 | 10.15 | 6.34 | 7.36 | 4.14 | VB030M |

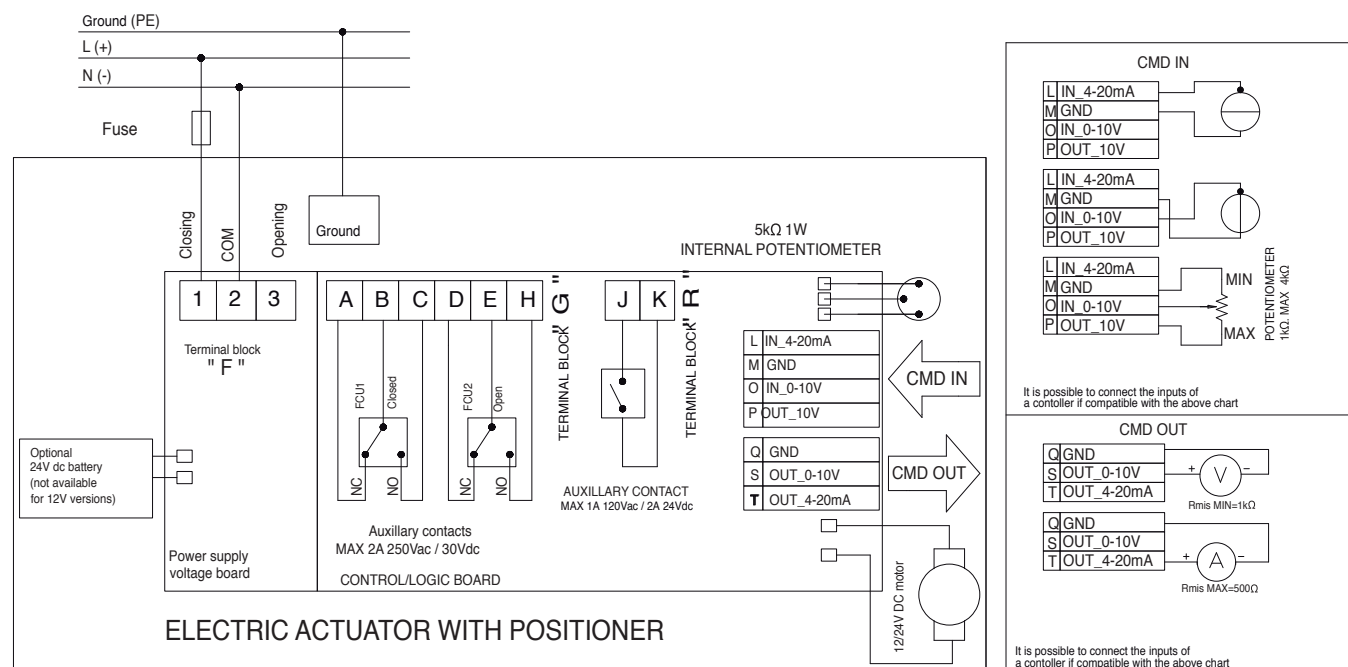
## ON/OFF WIRING DIAGRAM - VB030M

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



## POSITIONER WIRING DIAGRAM - VB030

12V AC/DC, 24V AC/DC &amp; 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" ).