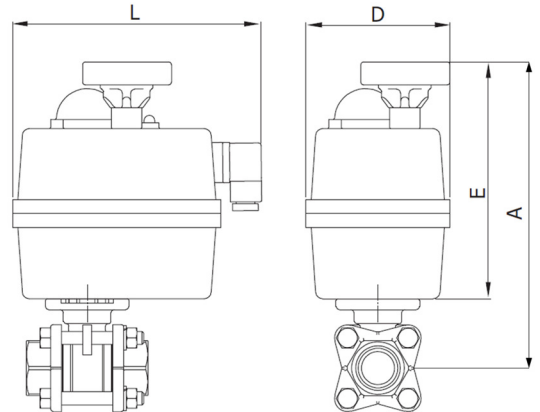


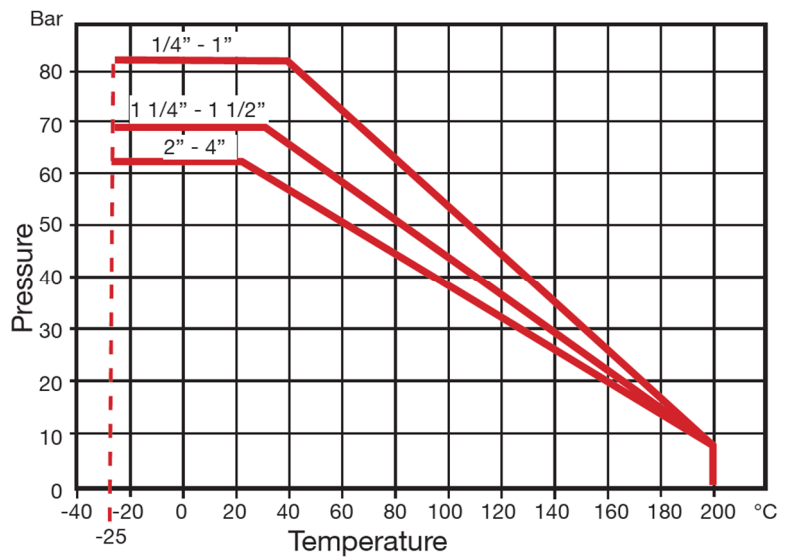
### VFE-993 - Electrically Actuated 2 Way Stainless Steel Ball Valve

| Actuator              | VF-0S |       |       |       |       |       | VF-05S | VF-1S  | VF-15S | VF-2S  |       |
|-----------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|-------|
|                       | DN    | 1/4"  | 3/8"  | 1/2"  | 3/4"  | 1"    | 1 1/4" | 1 1/2" | 2"     | 2 1/2" | 3"    |
| <b>A</b>              | 201.5 | 201.5 | 211   | 219   | 227   | 233   | 238.5  | 274    | 296    | 308.5  | 366.5 |
| <b>E</b>              | 169   | 169   | 169   | 169   | 169   | 169   | 169    | 196    | 196    | 196    | 254   |
| <b>L</b>              | 189.5 | 189.5 | 189.5 | 189.5 | 189.5 | 189.5 | 189.5  | 189.5  | 189.5  | 189.5  | 243.5 |
| <b>D</b>              | 110   | 110   | 110   | 110   | 110   | 110   | 110    | 110    | 110    | 110    | 214   |
| <b>Operating Time</b> | 10s   | 10s   | 10s   | 10s   | 10s   | 10s   | 10s    | 13s    | 13s    | 29s    | 34s   |



| Actuator Specification     |   | Valve Specification         |  |
|----------------------------|---|-----------------------------|--|
| Enclosure                  | Weatherproof IP67   | Body                        | Stainless Steel  |
| Power                      | 24V to 240V AC / 24V to 110V DC   | Seats                       | RPTFE (15%)  |
| Limit Switches             | 4X SPDT microswitches (2 motor stop and 2 confirmations)  | Seals                       | PTFE   |
| Anti-Condensation Heater   | 3.5W  | Connection                  | Screwed BSP Taper  |
| Connector                  | Large = EN175301-803 Form A / Small = DIN 43650/C   | Maximum Pressure            | 1/4" - 1" - 82 Bar<br>1 1/4" - 1 1/2" - 69 Bar<br>2" - 4" - 62 Bar |
| Operating Temperature      | -20°C to +70°C  | Valve Operating Temperature | -25°C to +200°C  |
| Manual Override            | Declutching Handwheel   | Ambient Temperature         | -10°C to +50°C   |
| Cover, Body, Cams Material | Polyamide A6  | Bore                        | Full Bore  |
| Options:                   | Battery Failsafe<br>Digital Positioning System (4-20mA, 0-10V)<br>180° and 270° operation<br>12V AC/DC power supply |                             |  |

### Pressure / Temperature:

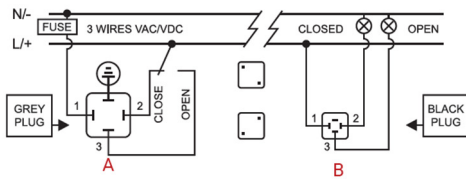


| LED Status Indication                      |                        |  |
|--|------------------------|--|
| No power                                   | LED off                |  |
| Actuator Fully Open                        | Red Led Solid          |  |
| Actuator Fully Closed                      | Green Led Solid        |  |
| Moving Open > Closed                       | Red and Orange Flash   |  |
| Moving Closed > Open                       | Green and Orange Flash |  |
| Torque lim. Engaged Open > Closed          | Red Blinking           |  |
| Torque lim. Engaged Closed > Open          | Green Blinking         |  |
| Manual Mode Engaged                        | Orange Blinking        |  |
| Battery Failsafe Activated Normally Open   | Red Intermittent       |  |
| Battery Failsafe Activated Normally Closed | Green Intermittent     |  |
| Battery Failsafe Needs Charging            | Orange Intermittent    |  |
| Digital Positioning System Stationary      | Blue Solid             |  |
| Digital Positioning System Opening         | Blue and Green Flash   |  |
| Digital Positioning System Closing         | Blue and Red Flash     |  |

## Standard Electrical Connections

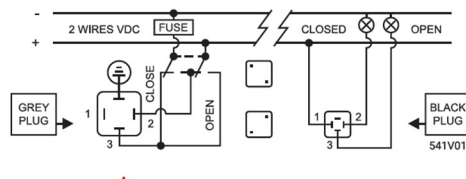
### On - Off V AC

VF-0S - VF-15S

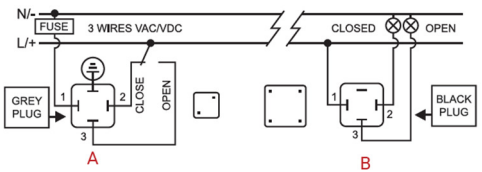


### On - Off V DC

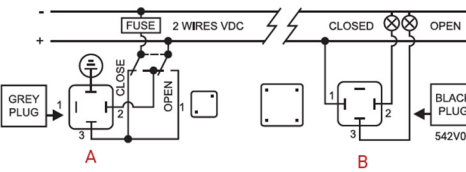
VF-0S - VF-15S



VF-2S - VF-2+S



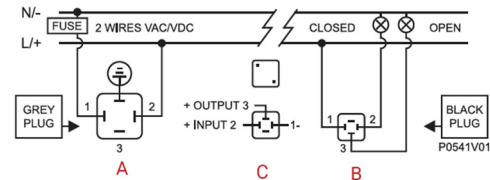
VF-2S - VF-2+S



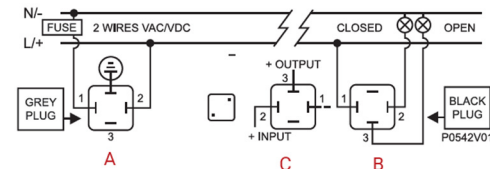
- A = Power supply plug (Grey plug)
- Neutral PIN 1 + Phase PIN 2 = Close Actuator
- Neutral PIN 1 + Phase PIN 3 = Open Actuator
- Earth/ground connection - Flat PIN
- B = Volt free contact plug (Black Plug)
- Common PIN 1 + PIN 2 = Close confirmation of position
- Common PIN 1 + PIN 3 = Close confirmation of position

### Positioner V AC / DC

VF-0S - VF-15S



VF-2S - VF-2+S



- A = Power supply plug (Grey plug)
- Neutral/Negative PIN 1 + Phase/positive PIN 2 - Power Supply
- Earth/ground connection - Flat PIN
- B = Volt free contact plug (Black Plug)
- Common PIN 1 + PIN 2 = Close confirmation of position
- Common PIN 1 + PIN 3 = Close confirmation of position
- C = Input/output signal (Black plug)
- Negative PIN 1 + positive PIN 2 = Input signal
- Negative PIN 1 + positive PIN 3 = Output signal
- C = Instrumentation signal **MAX 10V**

**Digital Positioner System:** Earth should not be connected to avoid self adjustment of the actuator position

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