

### VFE1003 - Electrically Actuated 2 Way PPGF Double Union Ball Valve

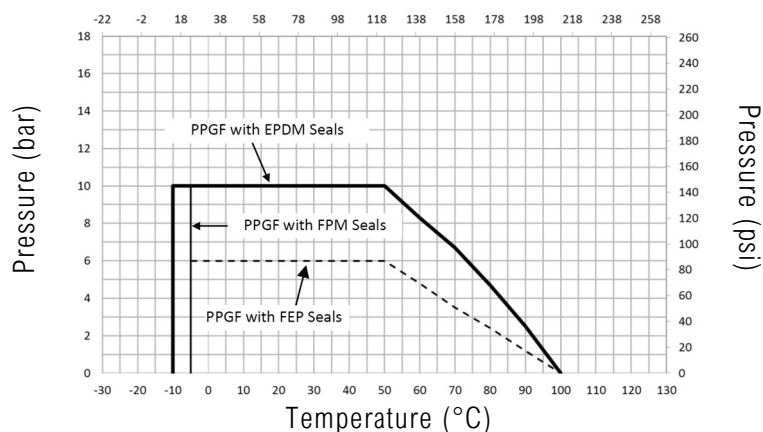


Valve Features and Specification	
Body	PPGF
Seat	PTFE
Seal Options	EPDM Food Grade Acetic EPDM FPM/FKM FEP+FPM+FFPM FEP+FFPM
Connection Options	BSP Threaded Socket Plain Socket
Bore	Full Bore
Operating Temperature:	<b>EPDM</b> = -10°C to +100°C <b>FPM</b> = -5°C to 100°C <b>FEP</b> = -5°C to 100°C

Actuator Specification	
Enclosure	Weatherproof IP67
Power	24V to 240V AC / 24V to 110V DC
Limit Switches	4X SPDT microswitches (2 motor stop and 2 confirmations)
Anti-Condensation Heater	3.5W
Connector	<i>Large</i> = EN175301-803 Form A / <i>Small</i> = DIN 43650/C
Operating Temperature	-20°C to +70°C
Operating Time (90°) +/-10%	VF-OS = 10 seconds
Manual Override	Declutching Handwheel
Cover, Body, Cams Material	Polyamide A6
Options:	Battery Failsafe Digital Positioning System (4-20mA, 0-10V) 180° and 270° operation 12V AC/DC power supply

#### Pressure / Temperature:

Temperature (°F)

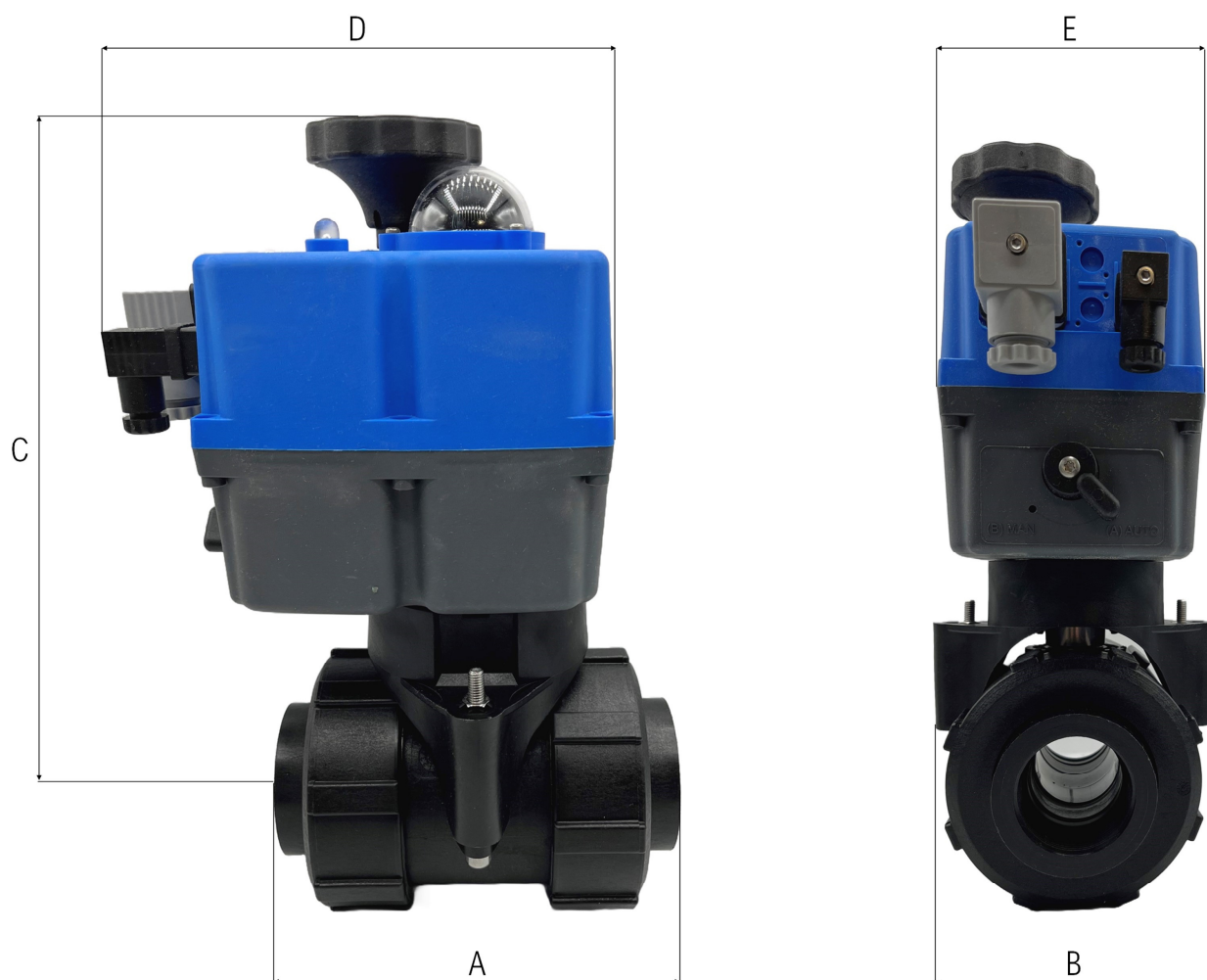


#### Additional Options Available on-request:

- Flow regulation plate (Material = PVDF)
- Thermal Insulation Extension













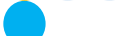

### Dimensions

### VFE1003 - Electrically Actuated 2 Way PPGF Ball Valve



Actuator	VF-0S					
DN	15 1/2"	20 3/4"	25 1"	32 1 1/4"	40 1 1/2"	50 2"
A	130.4	134.7	129.64	142.22	161.4	201
B	91	91	116.27	116.27	140.75	140.75
C	231	231	250	255	261	266
D	189.5	189.5	189.5	189.5	189.5	189.5
E	110	110	110	110	110	110

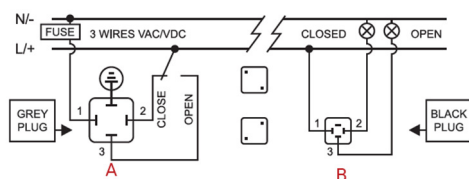
Dimensions in mm

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

## Standard Electrical Connections

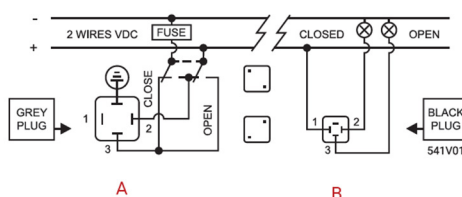
## On - Off V AC

VF-0S - VF-1S



On - Off V DC

VF-0S - VF-1S



**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

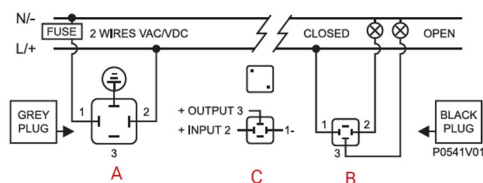
**B** = Volt free contact plug (Black Plug)

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-1S



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