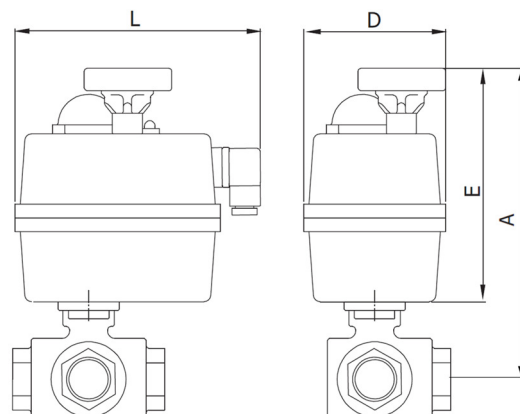


VFE-87/VFE-88 - Electrically Actuated 3 Way Brass Ball Valve

Actuator	VF-0S						VF-1S	
DN	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
A	199	199	202	211	216	221	266	275.5
E	169	169	169	169	169	169	196	196
L	189.5	189.5	189.5	189.5	189.5	189.5	189.5	189.5
D	110	110	110	110	110	110	110	110
Operating Time	10s	10s	10s	10s	10s	10s	13s	13s



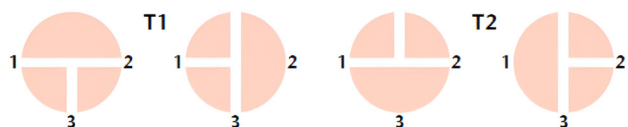
Actuator Specification		Valve Specification	
Enclosure	Weatherproof IP67	Body	Chrome Plated Brass CW617N
Power	24V to 240V AC / 24V to 110V DC	Ball	Chrome Plated Brass CW614N
Limit Switches	4X SPDT microswitches (2 motor stop and 2 confirmations)	1" > 2" = CW617N	
Anti-Condensation Heater	3.5W	Seats	PTFE
Connector	Large = EN175301-803 Form A / Small = DIN 43650/C	Seals	Viton
Operating Temperature	-20°C to +70°C	Connection	Screwed BSP Parallel (ISO 228/1)
Manual Override	Declutching Handwheel	Maximum Pressure	1/4" - 3/4" - 30 Bar
Cover, Body, Cams Material	Polyamide A6		1" - 1 1/4" - 20 Bar
Options:	Battery Failsafe		1 1/2" - 2" - 16 Bar
	Digital Positioning System (4-20mA, 0-10V)	Valve Operating Temperature	-25°C to +120°C
	180° and 270° operation	Ambient Temperature	-10°C to +50°C
	12V AC/DC power supply		

T-port or L-port?

T-port valves provide flow straight through the valve. i.e. 1 > 2 or 2 > 1.

When operated flow is diverted to either 1 > 3 / 3 > 1 or 2 > 3 / 3 > 2

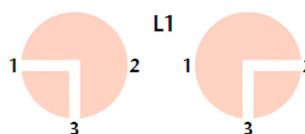
VFE-87



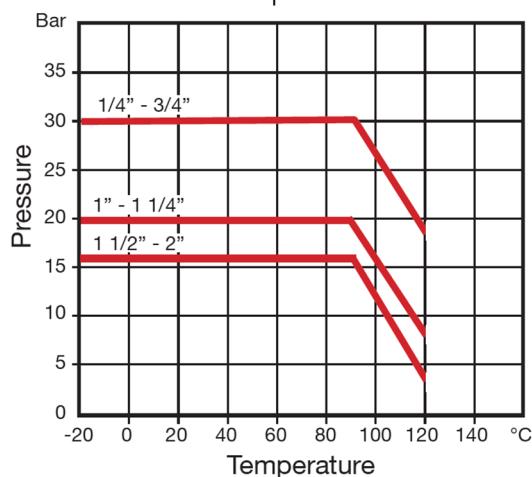
L-port valves are used for diverting or mixing applications.

i.e. 1 > 3 / 3 > 1 or 2 > 3 / 3 > 2

VFE-88



Pressure / Temperature:



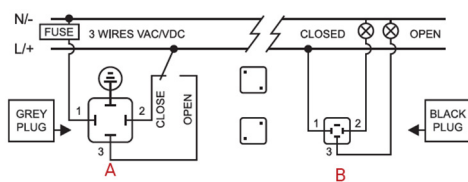
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LED Status Indication		
No power	LED off	
Actuator Fully Closed	Red Led Solid	
Actuator Fully Open	Green Led Solid	
Moving Open > Closed	Red and Orange Flash	
Moving Closed > Open	Green and Orange Flash	
Torque lim. Engaged Open > Closed	Red Blinking	
Torque lim. Engaged Closed > Open	Green Blinking	
Manual Mode Engaged	Orange Blinking	
Battery Failsafe Activated Normally Closed	Red Intermittent	
Battery Failsafe Activated Normally Open	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

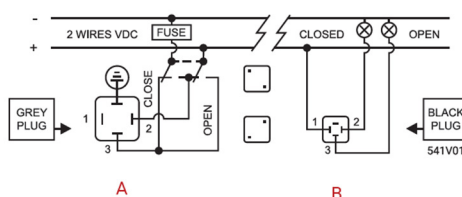
On - Off V AC

VF-0S - VF-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

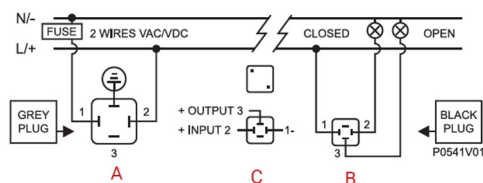
B = Volt free contact plug (Black Plug)

Common PIN 1 + PIN 2 = Close confirmation of position

Common PIN 1 + PIN 3 = Open 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 = Open 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