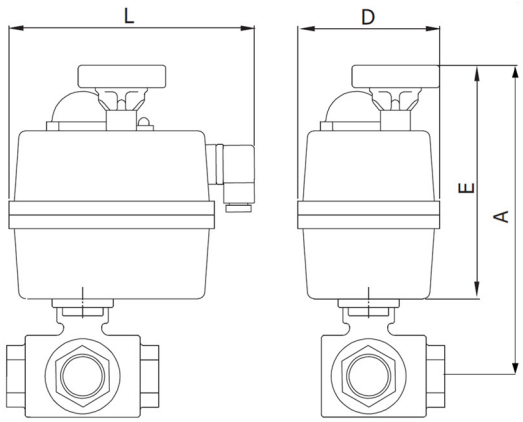
VFE-987/VFE-988 - Electrically Actuated 3 Way Stainless Steel Ball Valve

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"	4"
A	205.8	205.8	205.8	210.2	215.5	225	229	266.5	291.5	302	373
E	169	169	169	169	169	169	169	196	196	196	254
L	189.5	189.5	189.5	189.5	189.5	189.5	189.5	189.5	189.5	189.5	243.5
D	110	110	110	110	110	110	110	110	110	110	214
Operating Time	10s	10s	10s	10s	10s	10s	10s	13s	13s	29s	34s



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	*Large* = EN175301-803 Form A / *Small* = DIN 43650/C
Operating Temperature	-20°C to +70°C
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

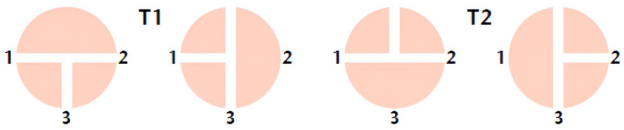
Valve Specification	
Body	Stainless Steel
Seats	RPTFE (15%)
Seals	PTFE / Viton
Connection	Screwed BSP Taper
Maximum Pressure	1/4" - 1" - 82 Bar
	1 1/4" - 1 1/2" - 69 Bar
	2" - 4" - 62 Bar
Valve Operating Temperature	-25°C to +200°C
Ambient Temperature	-10°C to +50°C

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

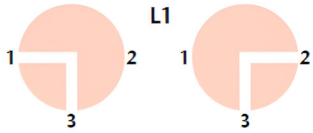
VFE-987



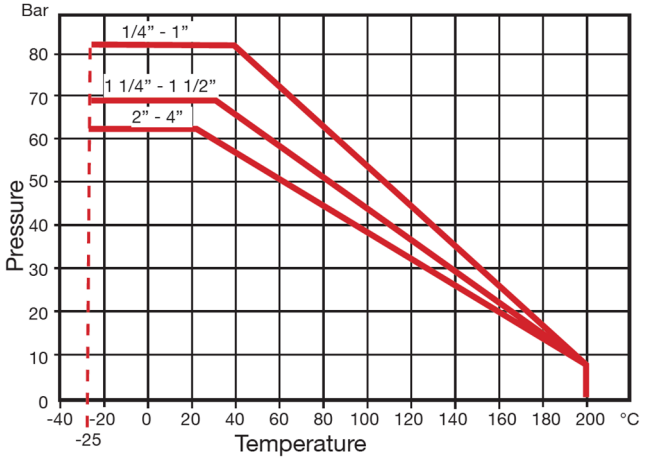
L-port valves are used for diverting or mixing applications.

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

VFE-988



Pressure / Temperature:



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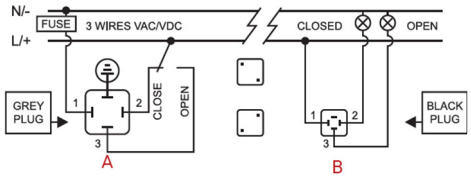
LED Status Indication	
No power	LED off
Actuator **Fully Open**	Red Led Solid
Actuator **Fully Closed**	Green Led Solid
Moving Open > Closed	Red and Orange Flash
Moving Closed > Open	Green and Orange Flash
Torque lim. Engaged Open > Closed	Red Blinking
Torque lim. Engaged Closed > Open	Green Blinking
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

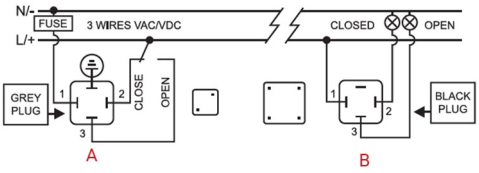
Standard Electrical Connections

On - Off V AC

VF-0S - VF-15S

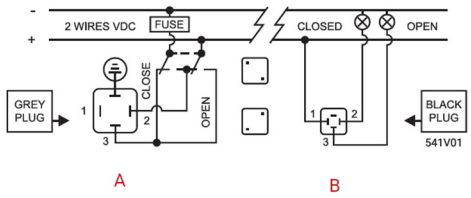


VF-2S - VF-2+S

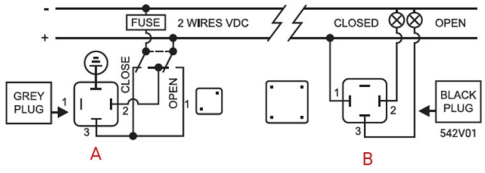


On - Off V DC

VF-0S - VF-15S



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

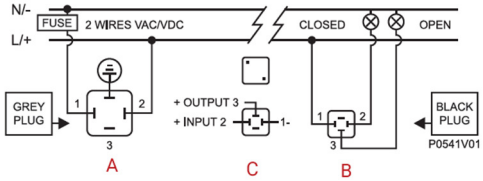
B = Volt free contact plug (Black Plug)

Common PIN 1 + PIN 2 = Close confirmation of position

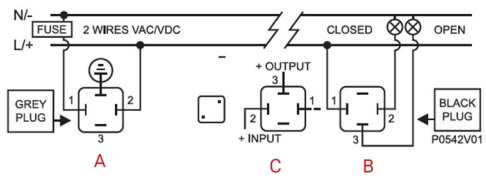
Common PIN 1 + PIN 3 = Open confirmation of position

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 = 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*