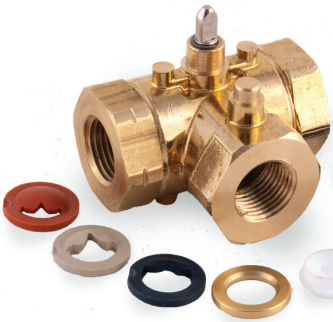## Benefits

The fastest and easiest actuator to install and service in the industry. Compact, low clearance actuator suitable for confined area applications.
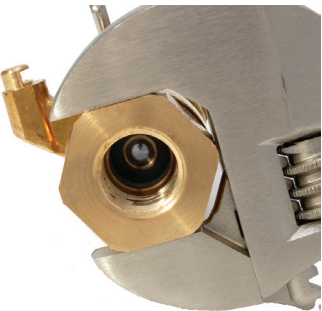

4.5 inches

Characterized equal percentage models for accurate, stable control.

*Valves come with characterized disc inserted and are not field-adjustable.

Heavy duty, "pipe-fitter approved," wrench flats prevent end connections from rounding and eliminate poor wrench gripping.

SpaceLogic
Actuators

VBB/VBS Series Ball Valves with Floating and Proportional M3 Actuators

Make the most of your energy

Schneider Electric

SpaceLogic Actuator

The SpaceLogic VBB/VBS series ball valves combine a unique, low force valve design with a compact actuator to create an assembly that is faster and easier to install than any other ball valve assembly in the industry.

Field installation is further simplified with the ability to easily combine any actuator on any VBB/VBS valve body. Actuators and valves can be purchased separately, ensuring jobsite configurability and customization.

The VBB/VBS series products accept floating and proportional control signals from a DDC system, controller, or thermostat for control of hot or chilled water, and solutions of up to 60% glycol. This makes them ideal for installation in VAV re-heat, fan-coil and unit ventilation applications.

Five Year Warranty for SpaceLogic Actuators

Two Position, Floating and Proportional Actuators

Two-Position Actuators

Part Number	Control Signal	Power Loss Action (Valve Normal Position)	VA / Voltage	Leads	Stroke Timing[g]	Spring Return Timing[g]	End Switch
M210A00	Two-Position	Normally Open	3.5/1.8 at 24 Vac/24 Vdc	Removeable Terminal Block[b]	50 sec	35 sec.	
M210A01				10 ft. (3.05 m) Plenum Cable[c]			
M210A11							SPST
M210A02				18 in. (45 cm) Appliance Wire			
M210A12							SPST
M210M02			6.0/6.0 at 100…277 Vac, 50/60 Hz	18 in. (45 cm) Appliance Wire			
M210M12							SPST
M220A00		Normally Closed	3.5/1.8 at 24 Vac/24 Vdc	Removeable Terminal Block[b]			
M220A01				10 ft. (3.05 m) Plenum Cable[c]			
M220A11							SPST
M220A02				18 in. (45 cm) Appliance Wire			
M220A12							SPST
M220M02			6.0/6.0 at 100…277 Vac, 50/60 Hz				
M220M12							SPST

Floating Actuators

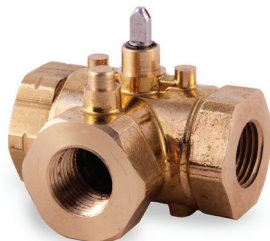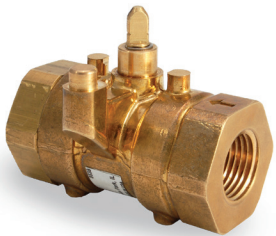| Part Number	Control Signal	Spring Return Action (Valve Normal Position)	VA @ 24 Vac 50/60 Hz	Leads	Stroke Time, sec. 50/60 Hz	Time-out Delay, sec. 50/60 Hz
M332A00	Floating	None	2.3/2.4	Terminal Block[b]	159/135	181 Sec
M332A01				10 ft. (3.05 m) Plenum Cable[c]		
M312A00		Normally Open	3.2/3.3[d]	Terminal Block[b]		
M312A01				10 ft. (3.05 m) Plenum Cable[c]		
M322A00		Normally Closed		Terminal Block[b]		
M322A01				10 ft. (3.05 m) Plenum Cable[c]		

Proportional Actuators

Part Number	Control Signal	Spring Return Action (Valve Normal Position)	VA @ 24 Vac 50/60 Hz	Leads	Stroke Time, sec. 50/60 Hz	Time-out Delay, sec. 50/60 Hz
M333A00	Proportional[a] (Vdc : 0…5, 0…10, 2…10, 5…10, 4…20 mA dc [e])	None	2.7/2.8	Terminal Block[b]	159/135	200/166
M333A01				10 ft. (3.05 m) Plenum Cable[c]		
M313A00		Normally Open	2.7/2.8[d]	Terminal Block[b]		145 Sec
M313A01				10 ft. (3.05 m) Plenum Cable[c]		
M323A00		Normally Closed		Terminal Block[b]		
M323A01				10 ft. (3.05 m) Plenum Cable[c]		

a. Default configured for 0…10 Vdc input signal, direct acting control.
b. All terminal block and appliance wire units accept a 1/2" conduit connector fitting (.875" diameter).
c. All plenum cable units include an integral 3/8" conduit connector fitting.
d. Size transformer for 10 VA per actuator.
e. For 4…20 mA control, a separate isolated transformer must be used with each valve.
g. Nominal.

Valve Bodies

2-Way VBB/VBS Series Valve Bodies				
Size	Brass Trim Part Number	Stainless Steel Trim Part Number	Thread	Cv (kvs)
1/2"	VBB2N00	VBS2N00	NPT	0.3 (0.3)
	VBB2N01	VBS2N01		0.7 (0.6)
	VBB2N02	VBS2N02		1.2 (1.0)
	VBB2N03	VBS2N03		2.1 (1.8)
	VBB2N04	VBS2N04		3.5 (3.0)
	VBB2N05	VBS2N05		4.7 (4.1)
	VBB2N06	VBS2N06		7.7 (6.7)
	VBB2N07[a]	VBS2N07[a]		10 (8.7)
3/4"	VBB2N10	VBS2N10		0.3 (0.3)
	VBB2N11	VBS2N11		0.7 (0.6)
	VBB2N12	VBS2N12		1.2 (1.0)
	VBB2N13	VBS2N13		2.1 (1.8)
	VBB2N14	VBS2N14		3.5 (3.0)
	VBB2N15	VBS2N15		4.7 (4.1)
	VBB2N16	VBS2N16		7.7 (6.7)
	VBB2N17[a]	VBS2N17[a]		10 (8.7)

a. Full port

3-Way VBB/VBS Series Valve Bodies					
Size	Brass Trim Part Number	Stainless Steel Trim Part Number	Thread	Cv (kvs) A Port	Cv (kvs) B Port
1/2"	VBB3N00	VBS3N00	NPT	0.3 (0.3)	0.3 (0.3)
	VBB3N01	VBS3N01		0.6 (0.5)	0.8 (0.7)
	VBB3N02	VBS3N02		1.0 (.85)	0.8 (0.6)
	VBB3N03	VBS3N03		2.0 (1.7)	1.5 (1.3)
	VBB3N04	VBS3N04		3.0 (2.6)	1.5 (1.3)
	VBB3N05	VBS3N05		4.5 (3.8)	2.7 (2.3)
	VBB3N06	VBS3N06		7.3 (6.2)	4.1 (3.5)
	VBB3N07[a]	VBS3N07[a]		10.0 (8.5)	4.8 (4.1)
3/4"	VBB3N10	VBS3N10		0.3 (0.3)	0.3 (0.3)
	VBB3N11	VBS3N11		0.6 (0.5)	0.8 (0.7)
	VBB3N12	VBS3N12		1.0 (.85)	0.8 (0.6)
	VBB3N13	VBS3N13		2.0 (1.7)	1.5 (1.3)
	VBB3N14	VBS3N14		3.0 (2.6)	1.5 (1.3)
	VBB3N15	VBS3N15		4.5 (3.8)	2.7 (2.3)
	VBB3N16	VBS3N16		7.3 (6.2)	4.1 (3.5)
	VBB3N17[a]	VBS3N17[a]		10.0 (8.5)	4.8 (4.1)

a. Full port