

Type overview





Type B2050VSS-15			DN 15
Technical data			
	Functional data	Valve size [mm]	0.5" [15]
		Fluid	chilled or hot water, up to 60% glycol, steam
		Fluid Temp Range (water)	-22298°F [-30148°C]
		Body Pressure Rating	2000 psig WOG
		Close-off pressure Δps	1000 psi
		Flow characteristic	modified equal percentage
		Max Differential Pressure (Steam)	50 psi
		Flow Pattern	2-way
		Leakage rate	ANSI Class VI
		Controllable flow range	90° rotation, A – AB open ccw, B – AB open cw
		Cv	15
		Maximum Inlet Pressure (Steam)	50 psi
		Maximum Velocity	15 FPS
	Materials	Valve body	Stainless steel A351-CF8M 316
		Housing seal	PTFE
		Spindle	316 stainless steel
		Spindle seal	RPTFE

Safety notes



Suitable actuators

Seat Lock nut

Ball

Pipe connection

Non-Spring

Spring

• WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

RPTFE

LMB(X)

GRCB(X) GRB(X) LF

stainless steel

316 stainless steel

SAE NPT (female connections)



Product features

Application

These threaded valves are designed to provide modulating or two position control of hot or chilled water and saturated steam systems under 50 psi.

Typical applications include reheat coils, VAV terminal control, unit ventilators, and air handlers, especially in areas which have minimum profile requirements.

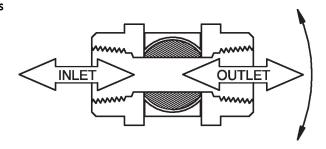
Up to 50 psi steam

1/2" - 2000 PSIG WOG, Cold Non-Shock Federal Specification: WW-V-35C, Type II

Composition: SS

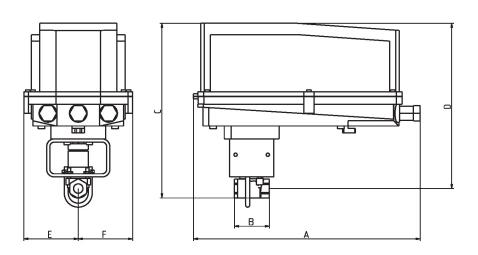
Style: 3

Flow/Mounting details



Dimensions

Туре	DN
B2050VSS-15	15



B2050VS..+GRC..N4

Α	В	С	D	E	F
14.1" [358]	2.2" [56]	10.8" [274.5]	10.3" [262]	3.4" [86]	3.4" [86]

On/Off, Floating Point, Non-Spring Return, AC 100...240 V









Technical data

Electrical data	Nominal voltage	AC 100240 V	
	Nominal voltage frequency	50/60 Hz	
	Power consumption in operation	6 W	
	Power consumption in rest position	2 W	
	Transformer sizing	11 VA (class 2 power source)	
	Electrical Connection	18 GA appliance cable, 3 ft [1 m], with 1/2" conduit connector	
	Overload Protection	electronic thoughout 090° rotation	
Functional data	Direction of motion motor	selectable with switch 0/1	
	Manual override	under cover	
	Angle of rotation	90°	
	Angle of rotation note	adjustable with mechanical stop	
	Running Time (Motor)	35 s / 90°	
	Running time motor note	constant, independent of load	
	Noise level, motor	45 dB(A)	
	Position indication	Mechanically, 520 mm stroke	
Safety data	Degree of protection IEC/EN	IP66/67	
	Degree of protection NEMA/UL	NEMA 4X	
	Enclosure	UL Enclosure Type 4X	
	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU and 2014/35/EU	
	Quality Standard	ISO 9001	
	Ambient temperature	-22122°F [-3050°C]	
	Ambient temperature note	-4050°C for actuator with integrated heating	
	Storage temperature	-40176°F [-4080°C]	
	Ambient humidity	Max. 100% RH	
	Servicing	maintenance-free	
Materials	Housing material	Die cast aluminium and plastic casing	

Footnotes †Rated Impulse Voltage 2.5kV, Type of Action 1.AA, Control Pollution Degree 3.

Accessories

Factory add-on option only	Description	Туре
	Heater, with adjustable thermostat	N4 Heater Add-on
		24V (-H)
	Heater, with adjustable thermostat	N4 Heater Add-on
		230V (-Y)



Electrical installation

X INSTALLATION NOTES

(A) Actuators with appliance cables are numbered.

Provide overload protection and disconnect as required.

 $_{\Delta}$ Actuators may be connected in parallel. Power consumption and input impedance must be observed.

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Meets cULus requirements without the need of an electrical ground connection.

\(\) Warning! Live electrical components!

During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.

Wiring diagrams

