

Technical data sheet

B6800VB-865

Carbon Steel Body, Hardened Chrome Plated, Stainless Steel Ball and Stem





Type overview

Туре	DN
B6800VB-865	200

Technical data

Functional data	Valve size [mm]	8" [200]
	Fluid	chilled or hot water, up to 60% glycol, steam
	Fluid Temp Range (water)	-22380°F [-30193°C]
	Fluid Temp Range (steam)	-22365°F [-30185°C]
	Body Pressure Rating	ANSI Class 150
	Close-off pressure Δps	250 psi
	Flow characteristic	equal percentage
	Servicing	repack/rebuild kits available
	Rangeability Sv	300:1
	Maximum differential pressure (water)	150 psi
	Max Differential Pressure (Steam)	100 psi
	Close-Off Pressure (Steam)	150 psi
	Flow Pattern	2-way
	Leakage rate	ANSI Class IV
	Controllable flow range	75°
	Cv	865
	Maximum Inlet Pressure (Steam)	150 psi
Materials	Valve body	WCC grade carbon steel
	Body finish	matt black body finish
	Stem	stainless steel
	Stem seal	PTFE V-ring
	Seat	PTFE
	Pipe connection	125/150 lb flanged, ASME/ANSI b16.1/b16.5
	Ball	stainless steel
uitable actuators	Non-Spring	PRB(X)
	Electrical fail-safe	PKRB(X)

Product features

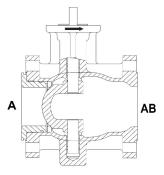
Application This

This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box reheat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.



Technical data sheet

Flow/Mounting details



Dimensions

Туре	DN	Weight
B6800VB-865	200	153 lb [69.4 kg]



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On/Off, Floating point, Non fail-safe, 24...240 V





CE



Technical data

Electrical data	Nominal voltage	AC 24240 V / DC 24125 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.2264 V / DC 19.2137.5 V
	Power consumption in operation	20 W
	Power consumption in rest position	7 W
	Transformer sizing	with 24 V 20 VA / with 240 V 52 VA
	Auxiliary switch	2x SPDT, 1 mA3 A (0.5 A inductive), DC 5 VAC 250 V (II, reinforced insulation), 1x 10° / 1x 090° (default setting 85°)
	Switching capacity auxiliary switch	1 mA3 A (0.5 A inductive), DC 5 VAC 250 V (II, reinforced insulation)
	Electrical Connection	Terminal blocks, (PE) Ground-Screw
	Overload Protection	electronic thoughout 090° rotation
Functional data	Direction of motion motor	reversible with app
	Manual override	7 mm hex crank, supplied
	Angle of rotation	90°
	Running Time (Motor)	35 s / 90°
	Noise level, motor	68 dB(A)
	Position indication	integral pointer
Safety data	Power source UL	Class 2 Supply
	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 humidity	Max. 100% RH
	Ambient temperature	-22122°F [-3050°C]
	Servicing	maintenance-free
Weight	Weight	6.8 lb [3.1 kg]



Technical data		
Materials	Housing material	Die cast aluminium and plastic casing
Safety notes		
\triangle	Additionally, the actuator must	rect valve position must be set via the control signal. be disconnected from the power source. The hand crank and sed as a safety measure to maintain the valve position.
Product features		
Application	indicators. For outdoor application	igned with an integrated linkage and visual position ons, the installed valve must be mounted with the actuator at pplications the actuator can be in any location including
Operation	valve. The PR Series actuator use electronically protected against of supply voltage in the range of AC thermostat to eliminate condens open and the other is field adjust by using the Near Field Commun †Use 60°C/75°C copper wire size conduit. Push the listed conduit f enclosure. Screw in conduit conn	00° of rotation and a visual indicator shows the position of the s a low power consumption brushless DC motor and is overload. A universal power supply is furnished to connect 24240 V and DC 24125 V. Included is a smart heater with ation. Two auxiliary switches are provided; one set at 10° table. Running time is field adjustable from 30120 seconds ication (NFC) app and a smart phone. range 1228 AWG, stranded or solid. Use flexible metal fitting device over the actuator's cable to butt against the sector. Jacket the actuators input wiring with listed flexible conduit in a suitable junction box. Rated impulse Voltage pollution degree 3.
Accessories		
Mechanical accessories	Description	Туре
	Hand crank for PR, PKR, PM	ZG-HND PR
Electrical installation		
	Meets cULus requirements withou	t the need of an electrical ground connection.
	Universal Power Supply (UP) mode Disconnect power. Provide overload protection and d	els can be supplied with AC 24240 V, or DC 24125 V.
A	startup, etc. Actuators may be controlled in par	allel. Current draw and input impedance must be observed.

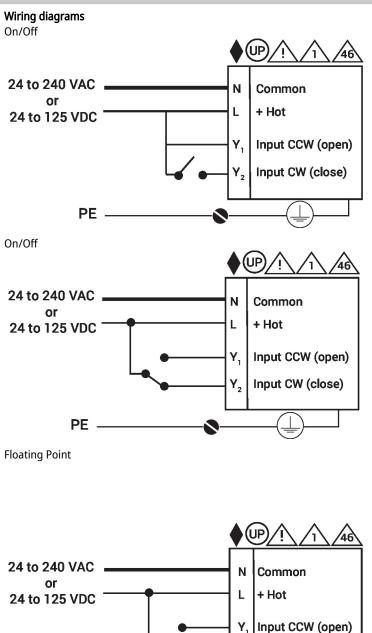


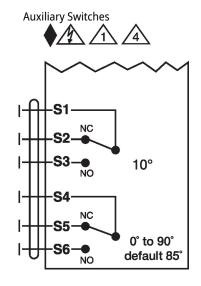
Actuators may be controlled in parallel. Current draw and input impedance must be observed. Warning! Live electrical components!

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.



Electrical installation





PE -

Input CW (close)

Y,





Dimensions

