

Technical data sheet

B225HT2800





Type overview

Туре	DN
B225HT2800	25

Technical data

Functional data	Valve size [mm]	1" [25]	
	Fluid	high temperature hot water/low pressure steam, up to 60% glycol	
	Fluid Temp Range (water)	60266°F [16130°C]	
	Fluid Temp Range (steam)	250°F [120°C]	
	Body Pressure Rating	600 psi	
	Close-off pressure Δps	200 psi	
	Flow characteristic	A-port equal percentage	
	Servicing	maintenance-free	
	Max Differential Pressure (Steam)	15 psi	
	Flow Pattern	2-way	
	Leakage rate	0%	
	Controllable flow range	75°	
	Cv	28	
	Maximum Inlet Pressure (Steam)	15 psi	
Materials	Valve body	Nickel-plated brass (DZR) P-CuZn35Pb2	
	Spindle	stainless steel	
	Spindle seal	Vition O-ring	
	Seat	ETFE	
	Characterized disc	ETFE	
	Pipe connection	NPT female ends	
	O-ring	EPDM (lubricated)	
	Ball	stainless steel	
uitable actuators	Non-Spring	LRB(X)	
	Spring	LF	

Safety notes



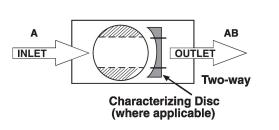
• WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

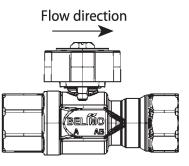


Application

n 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. This valve is designed to fit in compact areas where on/off, floating point and modulating control is required using 24 VAC.

Flow/Mounting details

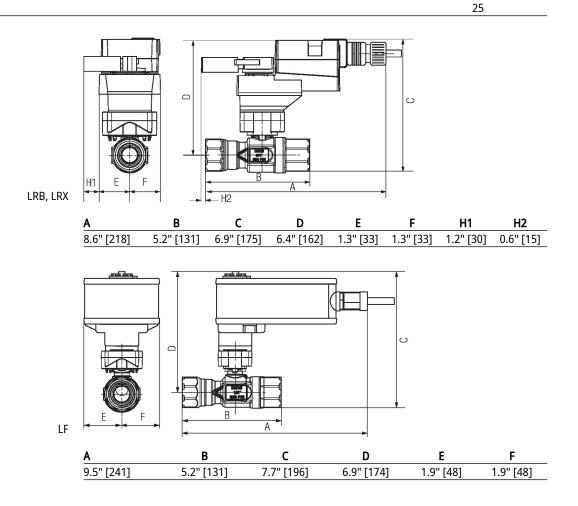




DN

Dimensions

Type B225HT2800





On/Off, Floating Point, Non-Spring Return, 24 V LRB24-3-S

5-year warranty

CE



Technical data

Electrical data	Nominal voltage	AC/DC 24 V	
	Nominal voltage frequency	50/60 Hz	
	Power consumption in operation	1.5 W	
	Power consumption in rest position	0.2 W	
	Power consumption for wire sizing	2 VA	
	Transformer sizing	2.5 VA (class 2 power source)	
	Auxiliary switch	1 x SPDT, 3 A resistive (0.5 A inductive) @ AC 250 V, adjustable 0100%	
	Switching capacity auxiliary switch	3 A resistive (0.5 A inductive) @ AC 250 V	
	Electrical Connection	18 GA plenum 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	external push button	
	Angle of rotation	90°	
	Angle of rotation note	adjustable with mechanical stop	
	Running Time (Motor)	90 s / 90°	
	Noise level, motor	35 dB(A)	
	Position indication	Mechanically, pluggable	
Safety data	Degree of protection IEC/EN	IP54	
	Degree of protection NEMA/UL	NEMA 2	
	Enclosure	UL Enclosure Type 2	
	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU and 2014/35/EU; Listed to UL 2043 - suitable for use in air plenums per Section 300.22(c) of the NEC and Section 602.2 of the IMC	
	Quality Standard	ISO 9001	
	Ambient temperature	-22122°F [-3050°C]	
	Storage temperature	-40176°F [-4080°C]	
	Ambient humidity	Max. 95% RH, non-condensing	
	Servicing	maintenance-free	
Materials	Housing material	Galvanized steel and plastic housing	

Footnotes TRated Impulse Voltage 800V, Type action 1, Control Pollution Degree 3.





DELIIVIU	rechnical data sheet	LKB24-3-5
Accessories		
Electrical accessories	Description	Туре
	Battery backup system, for non-spring return models	NSV24 US
	Battery, 12 V, 1.2 Ah (two required)	NSV-BAT
	Auxiliary switch 1 x SPDT add-on	S1A
	Auxiliary switch 2 x SPDT add-on	S2A
	Feedback potentiometer 140 Ω add-on, grey	P140A GR
	Feedback potentiometer 1 k Ω add-on, grey	P1000A GR
	Feedback potentiometer 10 k Ω add-on, grey	P10000A GR
	Feedback potentiometer 2.8 k Ω add-on, grey	P2800A GR
	Feedback potentiometer 500 Ω add-on, grey	P500A GR
	Feedback potentiometer 5 k Ω add-on, grey	P5000A GR
Electrical installation		
	<i>L</i>	
	CINSTALLATION NOTES	
	Δ Provide overload protection and disconnect as required.	
<u>/2</u>	Actuators may be connected in parallel. Power consumption observed.	and input impedance must be
	Actuators may also be powered by DC 24 V.	
<u>/e</u>	Actuators Hot wire must be connected to the control board o	
	neg. (-) leg of control circuits. Terminal models (-T) have no-f	eedback.
	Actuators with plenum cable do not have numbers; use colo	
4	A One built-in auxiliary switch (1x SPDT), for end position indic	ation, interlock control, fan startup,
	etc.	
<u>/ł</u>	Apply only AC line voltage or only UL-Class 2 voltage to the to Mixed or combined operation of line voltage/safety extra lov	
	Meets cULus requirements without the need of an electrical	-
		ground connection.
<u>/1</u>	Δ Warning! Live electrical components!	6 4 h i n u n a du a thi i tha an a du a tha an a a a a a a a a a a a a a a a a a
	During installation, testing, servicing and troubleshooting of	
	to work with live electrical components. Have a qualified lice	
	who has been properly trained in handling live electrical con	
	Failure to follow all electrical safety precautions when expos	ed to live electrical components
	could result in death or serious injury.	
Wiring diagrams		
On/Off	Floating Point	
24 VAC Transformer	4 4 4 4 4 4 4 4 4 4	
	(1) Common Line -	Blk (1) Common
	d (2) + Hot Volts	
L● ● _ ++ wr	nt (3) Y Input	- +++ Wht (3) Y Input
Floating Point - Triac Source	Floating Point - Triac Sink	
24 VAC Transformer	24 VAC Transformer	
Volts—[_] []		
	$\sqrt{1}$ $\sqrt{2}$ $\sqrt{3}$ $\sqrt{18}$ \square \square \square	
Hot Com	Blk (1) Common Hot	Blk (1) Common
	Red (2) + Hot	
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	Wht (3) Y input	
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