





Type overview	
Туре	DN
B6500S-290	125

Technical data

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valve size	5" [125]	
Fluid	chilled or hot water, up to 60% glycol	
Fluid Temp Range (water)	0250°F [-18120°C]	
Body Pressure Rating	ANSI Class 125, standard class B	
Close-off pressure Δps	175 psi	
Flow characteristic	equal percentage	
Servicing	maintenance-free	
Flow Pattern	2-way	
Leakage rate	0% for A – AB	
Controllable flow range	75°	
Cv	290	
Cv Flow Rating	A-port: as stated in chart B-port: 70% of A – AB Cv	
Valve body	Cast iron - GG 25	
Stem	stainless steel	

Materials

Valve body	Cast iron - GG 25
Stem	stainless steel
Stem seal	EPDM (lubricated)
Seat	PTFE
Characterized disc	stainless steel
Pipe connection	pattern to mate with ANSI 125 flange
O-ring	EPDM (lubricated)
Ball	stainless steel
Non-Spring	GRB(X)
Electrical fail-safe	GKRB(X)

Safety notes



Suitable actuators

 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

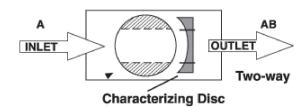
Product features

Application

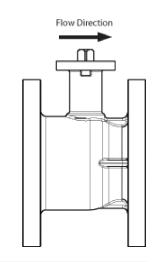
This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box reheat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.



Flow/Mounting details



Upstream A Downstream AB



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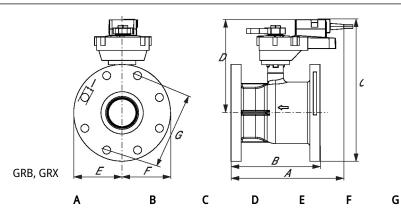
Number of Bolt Holes

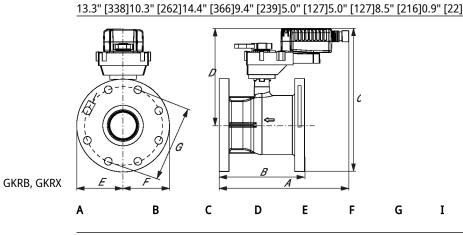
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Number of Bolt Holes

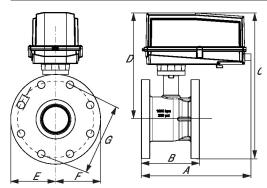
Dimensions

Туре	DN
B6500S-290	125





13.5" [343]10.3" [262]14.4" [366]9.7" [246]5.0" [127]5.0" [127]8.5" [216]0.9" [22]



GRX, GKRX



Technical data sheet B6500S-290 В C D Ε F G Ι Number of **Bolt Holes** 17.5" [444]10.3" [262]17.0" [433]13.6" [345]5.0" [127]5.0" [127]8.5" [216]0.9" [22] 8

Α В C D E

GRX, GKRX

Bolt Holes 17.5" [444]10.3" [262]17.0" [433]13.6" [345]5.0" [127]5.0" [127]8.5" [216]0.9" [22]

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NEMA 4, On/Off, Floating Point, Electrical Fail-Safe, 24 V







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Electrical data	Nominal voltage	AC 24 V
	Nominal voltage frequency	50/60 Hz
	Power consumption in operation	12 W
	Power consumption in rest position	3 W
	Transformer sizing	21 VA (class 2 power source) / heater 21 VA
	Electrical Connection	18 GA plenum cable, 3 ft [1 m], with 1/2" conduit connector
	Overload Protection	electronic thoughout 090° rotation
Functional data	Bridging time (PF)	2 s
	Pre-charging time	520 s
	Direction of motion motor	selectable with switch 0/1
	Direction of motion fail-safe	reversible with switch
	Manual override	under cover
	Angle of rotation	Max. 95°
	Angle of rotation note	adjustable with mechanical stop
	Running Time (Motor)	150 s / 90°
	Running time motor note	constant, independent of load
	Running time motor variable	90 or 150 s
	Running time fail-safe	<35 s
	Noise level, motor	52 dB(A)
	Noise level, fail-safe	61 dB(A)
	Position indication	Mechanically, 3065 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, CSA C22.2 No 24-93, CE acc. to 89/336/EC
	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 800V, Type of action 1.AA, Control Pollution Degree 3



Electrical installation

X INSTALLATION NOTES

Provide overload protection and disconnect as required.

Actuators may be connected in parallel. Power consumption and input impedance must be observed.

Actuators may also be powered by DC 24 V.

Actuators may be connected in parallel if not mechanically linked. Power consumption and input impedance must be observed.

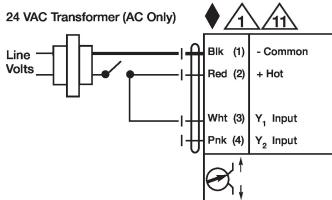
⚠ Actuators are provided with a numbered screw terminal strip instead of a cable. Meets cULus requirements without the need of an electrical ground connection.

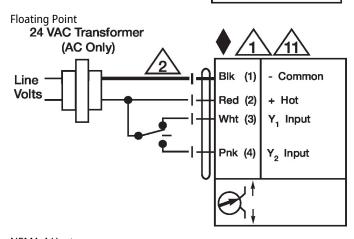
Warning! Live electrical components!

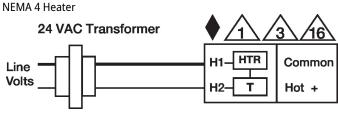
During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow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

Wiring diagrams

On/Off







Dimensions