2-way, Characterized Control Valve, Stainless Steel Ball and Stem



Picture may differ from product

5-year warranty

Type overview

Type	DN	Cv	Body Pressure Rating
B6500S-290	5" [125]	290	ANSI Class 125, standard class B

Technical data

Functional data	Valve size [mm]	5" [125]
	Fluid	chilled or hot water, up to 60% glycol
	Fluid Temp Range (water)	0...250°F [-18...120°C]
	Close-off pressure	Δps 175 psi
	Flow characteristic	equal percentage
	Leakage rate	0% for A–AB
	Pipe connection	Flange for use with ASME/ANSI class 125
	Servicing	maintenance-free
	Flow Pattern	2-way
	Controllable flow range	75°
Materials	Valve body	Cast iron - GG 25
	Stem	stainless steel
	Stem seal	EPDM (lubricated)
	Seat	PTFE
	Characterized disc	Stainless steel
	O-ring	EPDM (lubricated)
	Ball	stainless steel
Suitable actuators	Non Fail-Safe	GRB(X)
	Electronic fail-safe	GKRB(X)

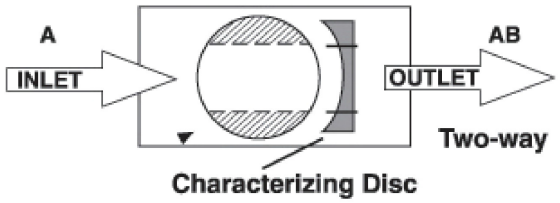
Product features

Application

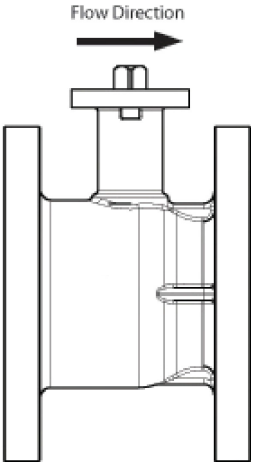
This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.

Product features

Flow/Mounting details

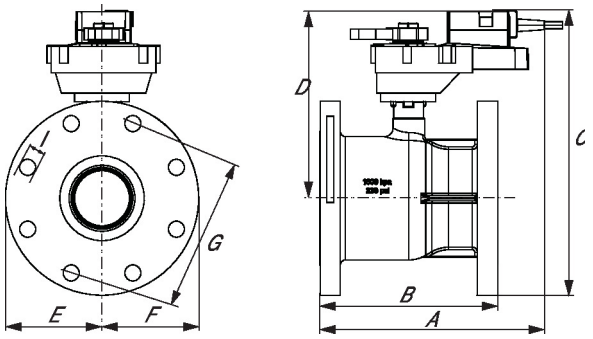


Upstream A
Downstream AB

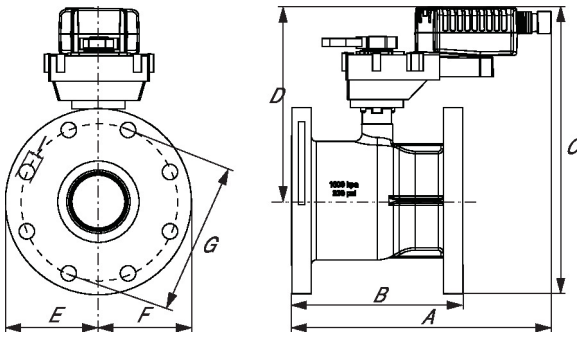


Dimensions

Type	DN	Weight
B6500S-290	5" [125]	67 lb [31 kg]



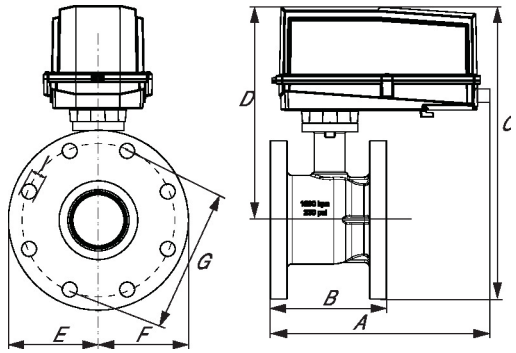
A	B	C	D	E	F	G	I	Number of Bolt Holes
13.3" [338]	10.3" [262]	14.4" [366]	9.4" [239]	5.0" [127]	5.0" [127]	8.5" [216]	0.9" [22]	8



A	B	C	D	E	F	G	I	Number of Bolt Holes
13.5" [343]	10.3" [262]	14.4" [366]	9.7" [246]	5.0" [127]	5.0" [127]	8.5" [216]	0.9" [22]	8

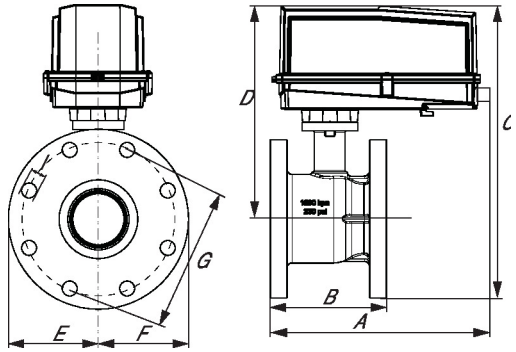
Dimensions

GRX, GKRX



A	B	C	D	E	F	G	I	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

GRX, GKRX



A	B	C	D	E	F	G	I	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

On/Off, Floating point, Electronic fail-safe, 24 V



5-year warranty

Please note: Due to a supplier issue, certain NEMA 4 actuator covers will be supplied in gray instead of orange until further notice. This change ensures uninterrupted shipping and the same protective properties and product specifications.

Technical data

Electrical data	Nominal voltage	AC 24 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.2...28.8 V
	Power consumption in operation	12 W
	Power consumption in rest position	3 W
	Transformer sizing	21 VA
	Overload Protection	electronic thoughout 0...90° rotation
Functional data	Bridging time (PF)	2 s
	Pre-charging time	5...20 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
	Sound power level motor	52 dB(A)
	Sound power level, fail-safe	61 dB(A)
	Position indication	Mechanical, 30...65 mm stroke
Safety data	Power source UL	Class 2 Supply
	Degree of protection NEMA/UL	NEMA 4X
	Housing	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 humidity	Max. 100% RH
	Ambient temperature	-22...122°F [-30...50°C]
	Ambient temperature note	-40...122°F [-40...50°C] for actuator with integrated heating
	Storage temperature	-40...176°F [-40...80°C]
	Servicing	maintenance-free
Weight	Weight	7.7 lb [3.5 kg]

Technical data

Materials	Housing material	Die cast aluminium and plastic casing

Footnotes †Rated Impulse Voltage 800V, Type of action 1.AA, Control Pollution Degree 3

Accessories

Factory add-on option only	Description	Type
	Heater, with adjustable thermostat	ACT_PACK_H

Electrical installation

Wire colors:
1 = blue
2 = brown
3 = white
4 = white

AC 24 V, floating point

