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)

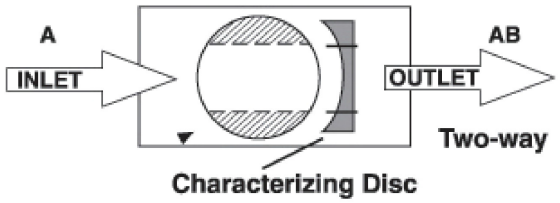
Product features

Application

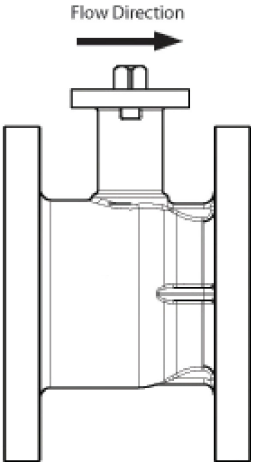
This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.

Product features

Flow/Mounting details

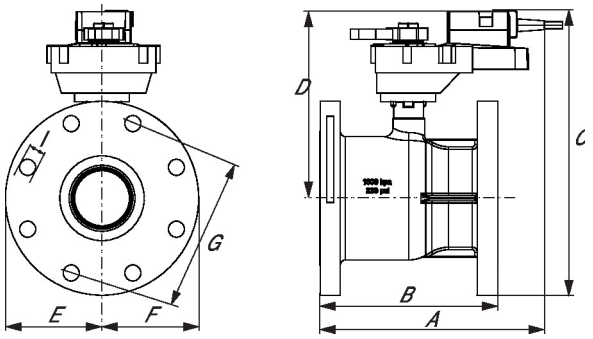


Upstream A
Downstream AB

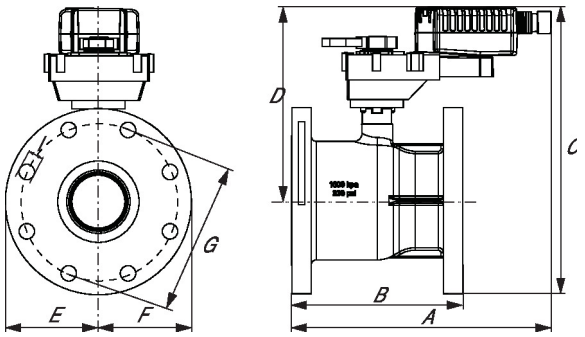


Dimensions

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



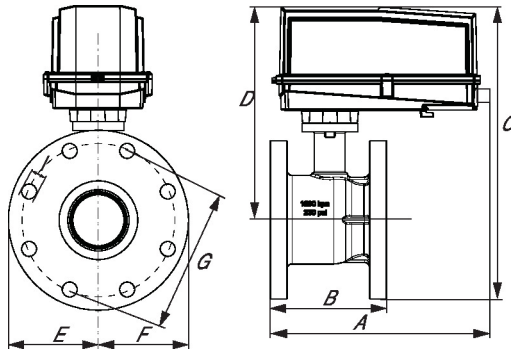
A	B	C	D	E	F	G	I	Number of Bolt Holes
13.3" [338]	10.3" [262]	14.4" [366]	9.4" [239]	5.0" [127]	5.0" [127]	8.5" [216]	0.9" [22]	8



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

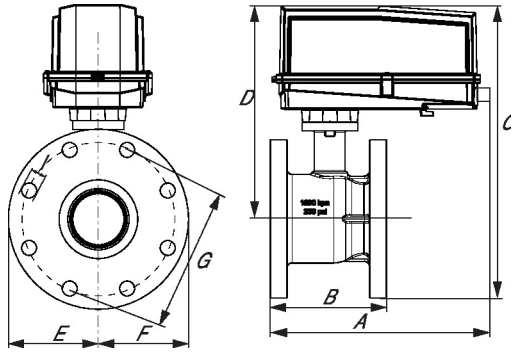
Dimensions

GRX, GKRX



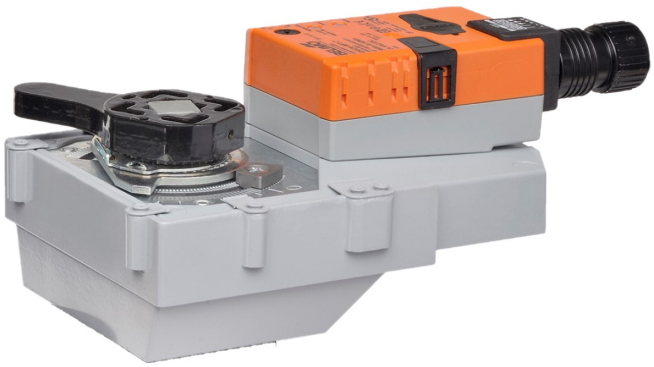
A	B	C	D	E	F	G	I	Number of Bolt Holes
17.5" [444]	10.3" [262]	17.0" [433]	13.6" [345]	5.0" [127]	5.0" [127]	8.5" [216]	0.9" [22]	8

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, Non fail-safe, 100...240 V



Picture may differ from product

5-year warranty

Technical data

Electrical data	Nominal voltage	AC 100...240 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 85...265 V
	Power consumption in operation	4 W
	Power consumption in rest position	2 W
	Transformer sizing	7 VA
	Overload Protection	electronic thoughout 0...90° 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)	150 s / 90°
	Sound power level motor	45 dB(A)
	Position indication	integrated into handle
Safety data	Power source UL	Class 2 Supply
	Degree of protection NEMA/UL	NEMA 2
	Housing	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
	Quality Standard	ISO 9001
	UL 2043 Compliant	Suitable for use in air plenums per Section 300.22(C) of the NEC and Section 602 of the IMC
	Ambient humidity	Max. 95% RH, non-condensing
	Ambient temperature	-22...122°F [-30...50°C]
	Storage temperature	-40...176°F [-40...80°C]
	Servicing	maintenance-free
Weight	Weight	5.0 lb [2.2 kg]
Materials	Housing material	Galvanized steel and plastic housing

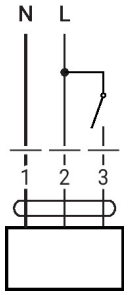
Footnotes †Rated Impulse Voltage 800V, Type of action 1.AA, Control Pollution Degree 3

Electrical installation

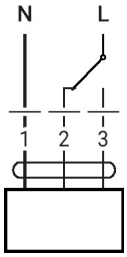
Wire colors:
1 = blue
2 = brown
3 = white

Additional info:
Caution: 3-point only with ball valves, not allowed with butterfly valves

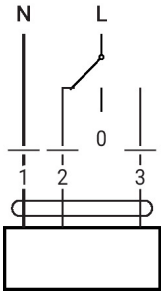
AC 230 V, on/off



AC 230 V, on/off (two-wire)



AC 230 V, 3-point



1	2	3	
			A–AB = 0%
			A–AB = 100%
			stop
			A–AB = 100%