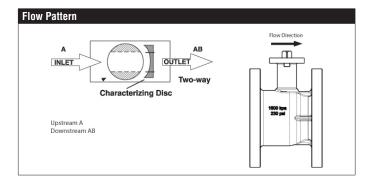
B6500S-290, **2-Way**, **Characterized Control Valve** Stainless Steel Ball and Stem





chilled, hot water, up to 60% glycol
equal percentage
75°
5" [125]
Pattern to mate with ANSI 125 flange
cast iron - GG25
stainless steel
stainless steel
EPDM (lubricated)
Teflon® PTFE
EPDM (lubricated)
stainless steel
ANSI 125, standard class B
ANSI 125, standard class B
8
0°F to 250°F [-18°C to 120°C]
50 psi (345 kPa)
100 psi
290
75 lb [34 kg]
0% for A to AB
maintenance free

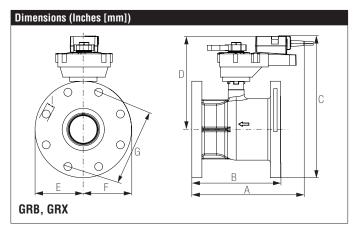


Application

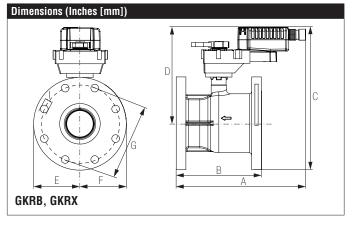
This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable or constant flow.

Suitable Actuators

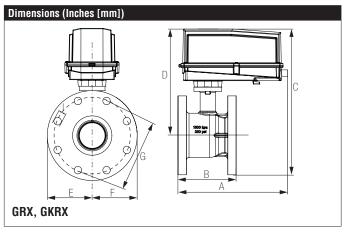
	Non-Spring	Electronic Fail-Safe		
B6500S-290	GRB(X)	GKRB(X)		



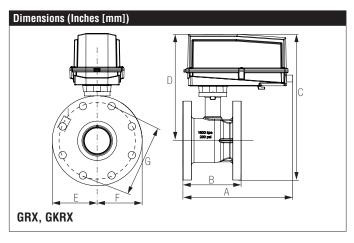
Α	В	С	D	E	F	G	
13.3"	10.33"	14.4"	9.4"	5" [1	[27]	8.5"	0.88"
[338]	[262]	[366]	[239]		-	[217]	[22]



1	Α	В	С	D	E	F	G	
	13.5"	10.33"	14.4"	9.7"	5" [127]	8.5"	0.88"
	[343]	[262]	[366]	[246]			[217]	[22]



А	В	С	D	Е	F	G	
17.5"	10.33"	17.03"	13.60"	5" [127]	8.5"	0.88"
[444]	[262]	[433]	[345]		-	[217]	[22]



Α	В	С	D	E	F	G	1
17.5"	10.33"	17.03"	13.60"	5" [127]	8.5"	0.88"
[444]	[262]	[433]	[345]			[217]	[22]

GRX24-MFT-T N4

Modulating, Non-Spring Return, 24 V, Multi-Function Technology®









Technical Data	
Power Supply	24 VAC ± 20%, 50/60 Hz, 24 VDC ± 10%
Power Consumption Running	8 W
Power Consumption Holding	2.5 W
Transformer Sizing	11 VA (class 2 power source)
Electrical Connection	terminal block
Overload Protection	electronic thoughout 0° to 90° rotation
Operating Range Y	2 to 10 VDC, 4 to 20 mA w/ ZG-R01 (500 Ω , 1/4 W resistor), variable (VDC, floating point, on/off)
Input Impedance	600 Ω
Feedback Output U	2 to 10 VDC, 0.5 mA max, VDC variable
Angle of Rotation	90°, adjustable with mechanical stop
Direction of Rotation (Motor)	reversible with built-in switch
Position Indication	reflective visual indicator (snap on)
Manual Override	under cover
Running Time (Motor)	150 sec (default), variable (90 to 150 sec)
Humidity	5 to 100% RH (UL Type 4)
Ambient Temperature Range	-22°F to 122°F [-30°C to 50°C]
Storage Temperature Range	-40°F to 176°F [-40°C to 80°C]
Housing	NEMA 4, IP66, UL enclosure type 4
Housing Material	polycarbonate
Agency Listings†	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC and 2006/95/EC
Noise Level (Motor)	<45 dB (A)
Servicing	maintenance free
Quality Standard	ISO 9001
Weight	9.9 lb [4.5 kg]

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





Wiring Diagrams

🔀 INSTALLATION NOTES



Actuators with appliance cables are numbered.



Provide overload protection and disconnect as required.

Only connect common to negative (-) leg of control circuits.



Actuators may also be powered by 24 VDC.



A 500 Ω resistor (ZG-R01) converts the 4 to 20 mA control signal to 2



to 10 VDC.

Control signal may be pulsed from either the Hot (Source) or Common (Sink) 24 VAC line.



For triac sink the Common connection from the actuator must be connected to the Hot connection of the controller. Position feedback cannot be used with a triac sink controller; the actuator internal common reference is not compatible.



IN4004 or IN4007 diode. (IN4007 supplied, Belimo part number



Actuators are provided with a numbered screw terminal strip instead of



Actuators may be controlled in parallel. Current draw and input impedance must be observed.



Master-Slave wiring required for piggy-back applications. Feedback from Master to conrol input(s) of Slave(s).



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.

