B6250S-070 Technical Data Sheet



Stainless Steel Ball and Stem



	year warranty
O.	year warranty

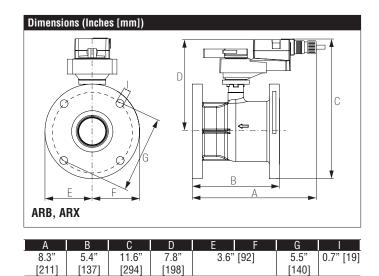
Technical Data	
Fluid	chilled or hot water, up to 60% glycol
Flow characteristic	equal percentage
Controllable flow range	75°
Valve Size [mm]	2.5" [65]
Pipe connector	pattern to mate with ANSI 125 flange
Housing	Cast iron - GG 25
Ball	stainless steel
Stem	stainless steel
Stem seal	EPDM (lubricated)
Seat	PTFE
0-ring	EPDM (lubricated)
Characterized disc	stainless steel
Body Pressure Rating	ANSI Class 125, standard class B
ANSI Class	125
Number of Bolt Holes	4
Close-off pressure Δps	175 psi
Cv	70
Weight	24.25 lb [11 kg]
Fluid Temp Range (water)	0250°F [-18120°C]
Leakage rate	0% for A – AB
Servicing	maintenance-free

Flow/Mounting Details

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.

Suitable Actuators			
	Non-Spring	Spring	
B6250S-070	ARB(X)	AFRB(X)	

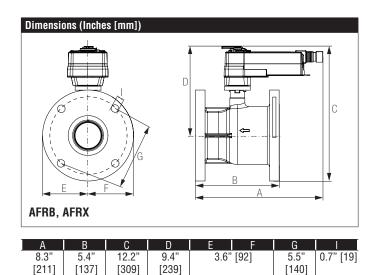


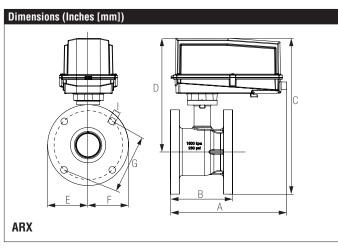
Safety Notes

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

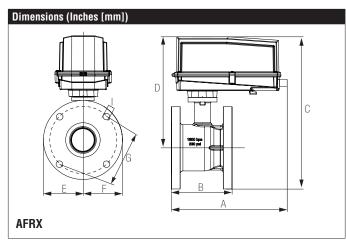


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A	В	С	D	E	F	G	
13.0"	5.4"	15.0"	7.8"	3.6"	[92]	5.5"	0.7" [19]
[330]	[137]	[380]	[198]			[140]	



A	В	С	D	E	F	G	
14.5"	5.4"	16.6"	11.9"	3.6"	[92]	5.5"	0.7" [19]
[368]	[137]	[422]	[302]			[140]	

Operating range Y variable	Start point 0.530 V
	End point 2.532 V
Input Impedance	100 kΩ for 210 V (0.1 mA), 500 Ω for
	420 mA, 1500 Ω for PWM, On/Off and
	Floating point
Position Feedback	210 V, Max. 0.5 mA, VDC variable
Angle of rotation	90°
Direction of motion motor	selectable with switch 0/1
Position indication	pointer
Manual override	under cover
Running Time (Motor)	default 150 s, variable 90150 s
Ambient humidity	max. 95% r.H., non-condensing
Ambient temperature	-22122°F [-3050°C]
Storage temperature	-40176°F [-4080°C]
Degree of Protection	IP66/67, NEMA 4X, UL Enclosure Type 4X
Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CS
	E60730-1:02, CE acc. to 2014/30/EU
Noise level, motor	45 dB(A)
Servicing	maintenance-free
Quality Standard	ISO 9001
Weight	3.7 lb [1.6 kg]
Rated Impulse Voltage 800V, Type of ac	tion 1 Control Pollution Degree 4





	REG. EQUIP.
Technical Data	
Power Supply	24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10%
Power consumption in operation	3.5 W
Power consumption in rest	1.3 W
position	
Transformer sizing	6 VA (class 2 power source)
Electrical Connection	Terminal blocks
Overload Protection	electronic thoughout 090° rotation
Operating Range	$\begin{array}{l} 210 \text{ V} (\text{default}), 420 \text{ mA w}/\text{ZG-R01} (500 \\ \Omega, 1/4 \text{ W resistor}), \text{variable (VDC, on/off, floating point)} \end{array}$
Operating range Y variable	Start point 0.530 V End point 2.532 V
Input Impedance	100 k Ω for 210 V (0.1 mA), 500 Ω for 420 mA, 1500 Ω for PWM, On/Off and Floating point
Position Feedback	210 V, Max. 0.5 mA, VDC variable
Angle of rotation	90°
Direction of motion motor	selectable with switch 0/1
Position indication	pointer
Manual override	under cover
Running Time (Motor)	default 150 s, variable 90150 s
Ambient humidity	max. 95% r.H., non-condensing
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Degree of Protection	IP66/67, NEMA 4X, UL Enclosure Type 4X
Agency Listing	CULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU
Noise level, motor	45 dB(A)
Servicing	maintenance-free
Quality Standard	ISO 9001
147.1.1.	



ARX24-MFT-T N4 Technical Data Sheet

NEMA 4, Modulating Control, Non-Spring Return, Direct Coupled, 24

V, Multi-Function Technology®



🔀 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 24 VDC.

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



A 500 Ω resistor (ZG-R01) converts the 4 to 20 mA control signal to 2 to 10 VDC.

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 40155).

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.

