

The School Board of Broward County, Florida Office of Facilities & Construction 1643 North Harrison Parkway

1643 North Harrison Parkway Sunrise, FL 33323

(754) 321-1500

Document	01330a (00 62	11	-Submittal	Form

To: VIA DESIGN STUDIO (Project consultant)						
		Submittal No.: 0	Date: 12/26/19			
Attn: Vanessa Smith torre	es	□ Describerait	4-1			
Project No: P.001866 Project Title: GOB Renova	tions	Resubmit	tal			
Facility Name: River Glades		(One Submit	tal item per form)			
Location No: 2891	Elementary concer	(0.110 0.1111111	ian norm por ronny			
We hereby submit:						
	le/Description/		n Title, Paragraph/			
	nufacturer alves	SBBC NO=	ail Reference			
1 007	11 ()	CSI No=				
		COL 110=	22 0320			
☑ Submitted for Review and Approval. ☐ Complies with contract requirements. ☐ Resubmitted for Review and Approval. ☐ Will be available to meet construction Schedule. ☐ Reviewed, coordinated and approved by the Contractor. Other remarks concerning submittal: LUNACONCONSTRUCTION GROUP Clara Uzcategui Implication Imp						
Contractor: Retain copy for Project F		Signature)	Integ Contractor:			
То:		Date	Date			
(Contractor)		Received:	Returned:			
FROM:		Project Consultant				
The referenced submittal has	s been/is:					
Approved						
Approved as Noted		with corrections identified.	and for Freshoption and			
☐ Disapproved/Resubmit☐ Not Subject to Review☐ Incomplete/Resubmit☐	Approval Process Other:	t Comparative Data Requii	red for Evaluation and			
•	By: (Signature)	Project Cor	nsultant:			
Distribution:	☐ Owner ☐ Retain Cor	by for Project File				

Submittal

Job: P.001866

GOB Renovation

Riverglades Elementary School

Location No: 2891

Spec Section No: 15.100 Submittal No: 007

Revision No:

Sent Date: 12/26/2019

Submittal Title: Valves

Contractor:Lunacon Construction Group

16890 S Dixie Highway Miami, FL 33157 (786)293-0035

VIA Design Studio, LLC Vanessa Smith Torres

			CONSTRUCTION GROUP	Di Su Co In
Δ	x	NO EXCEPTIONS		Ь.
	-			Sı
В		EXCEPTIONS AS NOTED		
C		RESUBMIT		
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ע		REJECTED	Architect's Stamp	
			I Alcilicol a Glamp	

Contractor's Stamp

Checked as to General Arrangement and Conformity with Contract Document.

Subcontractor Is Advised That Failure Of The Architect-Engineer Or The General Contractor To Direct And Correct An Error In The Material Submitted For Approval Or Errors In Either Size Or Location Dimensions, Does Not In Any Way Relieve The Supplier/ Subcontractor Of His Responsibility To Comply In All Details With The True Meaning A

Revise & Resubmit

X Approved

Intent Of The Contract Documents.

By: Clara Uzcategui_{Date}: 12/26/2019

Submittal: 15.100

FOR INFORMATION ONLY

SUBMITTAL REVIEW

This review is for conformance with the information given in the design concept expressed in the Contract Documents. The Contractor remains responsible for:
1 Compliance with the Contract Documents 2 Confirming and correlating quantities and dimensions
3 Selecting fabrication processes and techniques of construction
4 Coordination of this Work with other trades
5 Performing this Work in a safe and satisfactory manner
6 Compliance with the Contractor's construction schedule
7 All other provisions of the Agreement
It is understood that the Architect's notation on the submittal is not to be constructed an authorization for additional work or

VDS VIA DESIGN STUDIO AA26002071 Reviewed: VST Checked: VST Date: 01/15/

additional cost.

≣n	gineer's Stamp			
	JOHNSON,	AVEDANO, LOPEZ ENGINEERING		WALEWSKI
	SUBMITTAL REVIEW AND CONTRACT DO	VIS FOR GENERAL CONFO	RMANCE WITH THE DE	SIGN CONCEPT
	CONTRACTOR FRO NOR DEPARTURES DETAILS AND ACCU ASCERTAINING THA FIT WITHIN THE ALL SELECTING FABRIC	MENTS SHALL NOT BE COM M COMPLIANCE WITH THE THEREFOM. THE CONTF MEACY FOR CONFIRMING A TO DIMENSIONS OF EQUIP OCATED SPACE, JOB COM ATING PROCESS, FOR TE D FOR PERFORMING THE	PROJECT PLANS AND ACTOR REMAINS RESP AND CORRELATING ALL MENT AND MATERIALS IDITIONS AND DIMENSI CHNIQUES OF ASSEMBI	SPECIFICATIONS, ONSIBLE FOR QUANTITIES, FOR SUBMITTED WILL DNS, FOR LY AND
	X			
	REVIEWED	REVIEWED AS NOTED	REVISE AND RESUBMIT	REJECTED
	REVIEWED BY:	John G. Cumper, P.	Ε.	
	SUBMITTAL No.:	007 - Valves	DATE:	Jan 13, 2020.

050905 - 05/12 - Subject to change. © Belimo Aircontrols (USA), Inc.

B3 Series, Three Way, Characterized Control Valve **Stainless Steel Ball and Stem**









Technical Data	
Service	chilled or hot water, 60% glycol
Flow characteristic	A-port equal percentage
	B-port modified for constant common port
	flow
Controllable Flow Range	75°
Sizes	1/2", 3/4", 1", 11/4", 11/2", 2"
Type of end fitting	NPT female ends
Materials:	
Body	forged brass, nickel plated
Ball	stainless steel
Stem	stainless steel
Seats	PTFE
Characterizing disc	Tefzel®
Packing	2 EPDM O-rings, lubricated
Body pressure rating	
600 psi	1/2" - 1"
400 psi	11⁄4" - 2"
Media temp. range	0°F to 250°F [-18°C to 120°C]
Close off pressure	
200 psi	1/2" - 2"
Maximum differential	50 psi for typical applications
pressure (∆P)	
Leakage	0% for A to AB
	<2.0% for B to AB
External leakage	according to EN 12266-1:2003
C _v rating	A-port: see product chart for values
	B-port: 70% of A to AB C _v
Tofzal® is a registered trademark of	DuPont

Tefzel® is a registered trademark of DuPont

Dimensions

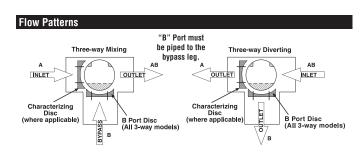
	Valve No	ninal Size	Dimensions (Inches [mm])				
Valve Body	Inches	DN [mm]	Α	В	C		
B307-B311	1/2"	15	2.41" [61.1]	1.39" [35.2]	1.20" [30.6]		
B312-B316	1/2"	15	2.38" [60.4]	1.78" [45.2]	1.29" [32.8]		
B317-B321	3/4"	20	2.73" [69.3]	1.87" [47.4]	1.47" [37.3]		
B322-B325	1"	25	3.09" [78.4]	1.87" [47.4]	1.59" [40.3]		
B329-B331	11⁄4"	32	3.96" [100.6]	2.27" [57.7]	2.14" [54.3]		
B338-B341	1½"	40	4.39" [111.6]	2.51" [63.7]	2.40" [61.1]		
B347-B352	2"	50	4.90" [124.5]	2.73" [69.5]	2.74" [69.7]		

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.

	Valve Nor	ninal Size	Туре		Sui	table	Actuat	tors	
Cv	Inches	DN [mm]	3-Way NPT	Noi	n-Spri	ing	,	Spring	
0.3	1/2	15	B307						
0.46	1/2	15	B308						
8.0	1/2	15	B309						
1.2	1/2	15	B310						
1.9	1/2	15	B311				S		
3	1/2	15	B312				TF Series		
4.7	1/2	15	B313			rie	S H	S	
10	1/2	15	B315			NRN4 Series		LF Series	
14	1/2	15	B316			ž		Š	
4.7	3/4	20	B317		=	~: -:			
7.4	3/4	20	B318			2			
14	3/4	20	B320						
24	3/4	20	B321						
7.4	1	25	B322			_			
10	1	25	B323	,					
30	1	25	B325* *						
10	11/4	32	B329			_			
19	11/4	32	B330		_				
25	11/4	32	B331 🚄			_			
19	1½	40	B338		_				
29	1½	40	B339 🚄			es			
37	1½	40	B340		AR Series	ARN4 Series			AF Series
46	1½	40	B341		Sei	4			Ser
29	2	50	B347		AR				ΑF
37	2	50	B348			AR			
46	2	50	B349						
57	2	50	B350						
68	2	50	B351						
83	2	50	B352						
*Models without	ut characterizir	na disc							

^{*}Models without characterizing disc



AR...24-SR Actuators, Proportional





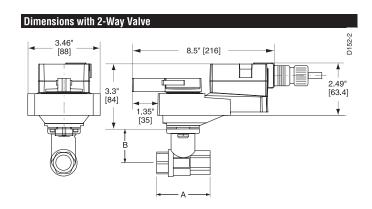
Models ARB24-SR

ARX24-SR

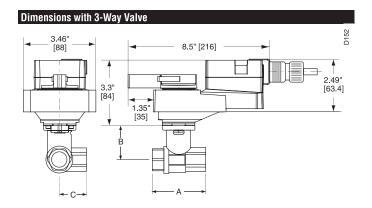
Flexible Version

Technical Data Power supply 24 VAC ± 20% 50/60 Hz 24 VDC ± 10% Power consumption running nunning 2.5 W 50/60 Hz 24 VDC ± 10% Transformer sizing 5 VA (class 2 power source) Electrical connection ½" conduit connector 18 GA plenum rated cable 3 ft [1m], 10 ft [5m] 3 ft [1m], 10 ft [5m] Overload protection electronic throughout 0° to 95° rotation Operating range Y 2 to 10 VDC, 4 to 20 mA Feedback output U 1 to 10 VDC, max 0.5 mA Input impedance 100 kΩ (0.1 mA), 500 Ω Angle of rotation 90°, adjustable with mechanical stop Torque 180 in-lb [20 Nm] Direction of rotation reversible with protected	Anaza-on liexible version	I
Power consumption running 2.5 W holding 0.4 W	Technical Data	
Power consumption running holding 0.4 W Transformer sizing 5 VA (class 2 power source) Electrical connection ½" conduit connector 18 GA plenum rated cable 3 ft [1m], 10 ft [3m], 16 ft [5m] Overload protection electronic throughout 0° to 95° rotation Operating range Y 2 to 10 VDC, 4 to 20 mA Feedback output U 1 to 10 VDC, max 0.5 mA Input impedance 100 kΩ (0.1 mA), 500 Ω Angle of rotation 90°, adjustable with mechanical stop Torque 180 in-lb [20 Nm] Direction of rotation reversible with protected √/ switch Position indication handle Manual override external push button Running time ARB24-SR 300, 150, 90 seconds, constant independent of load Humidity 5 to 95% RH non-condensing (EN 60730-1) Ambient temperature -20°F to +122°F [-30°C to +50°C] Storage temperature -40°F to +176°F [-40°C to +80°C] Housing Material UL94-5VA Agency listings† cULus according to UL 60730-1A/-2-14, CAN/CSA E60730-1:02, CE according to 2004/108/EC and 2006/95/EC for line voltage and/or −S versions Noise level <45 dB(A)	Power supply	24 VAC ± 20% 50/60 Hz
holding 0.4 W		24 VDC ± 10%
Transformer sizing Electrical connection %" conduit connector 18 GA plenum rated cable 3 ft [1m], 10 ft [3m], 16 ft [5m]	Power consumption running	2.5 W
Electrical connection %" conduit connector 18 GA plenum rated cable 3 ft [1m], 10 ft [3m], 16 ft [5m] Overload protection Operating range Y 2 to 10 VDC, 4 to 20 mA Feedback output U 1 to 10 VDC, max 0.5 mA Input impedance Angle of rotation Operating range Y Angle of rotation Operating reversible with mechanical stop Angle of rotation Operating reversible with mechanical Angle of rotation Operating range / Oper	holding	0.4 W
18 GA plenum rated cable 3 ft [1m], 10 ft [3m], 16 ft [5m] Overload protection electronic throughout 0° to 95° rotation Operating range Y 2 to 10 VDC, 4 to 20 mA Feedback output U 1 to 10 VDC, max 0.5 mA Input impedance 100 kΩ (0.1 mA), 500 Ω Angle of rotation 90°, adjustable with mechanical stop Torque 180 in-lb [20 Nm] Direction of rotation reversible with protected // switch Position indication handle Manual override Running time ARB24-SR 90 seconds ARX24-SR 300, 150, 90 seconds, constant independent of load Humidity 5 to 95% RH non-condensing (EN 60730-1) Ambient temperature -22°F to +122°F [-30°C to +50°C] Storage temperature Housing NEMA 2/IP54 Housing material UL94-5VA Agency listings† cULus according to UL 60730-1A/-2-14, CAN/CSA E60730-1:02, CE according to 2004/108/EC and 2006/95/EC for line voltage and/or -S versions Noise level	Transformer sizing	5 VA (class 2 power source)
3 ft [1m], 10 ft [3m], 16 ft [5m] Overload protection electronic throughout 0° to 95° rotation Operating range Y 2 to 10 VDC, 4 to 20 mA Feedback output U 1 to 10 VDC, max 0.5 mA Input impedance 100 kΩ (0.1 mA), 500 Ω Angle of rotation 90°, adjustable with mechanical stop Torque 180 in-lb [20 Nm] Direction of rotation reversible with protected √/○ switch Position indication handle Manual override external push button Running time ARB24-SR 90 seconds, constant independent of load Humidity 5 to 95% RH non-condensing (EN 60730-1) Ambient temperature -22°F to +122°F [-30°C to +50°C] Storage temperature -40°F to +176°F [-40°C to +80°C] Housing NEMA 2/IP54 Housing material UL94-5VA Agency listings† cULus according to UL 60730-1A/-2-14, CAN/CSA E60730-1:02, CE according to 2004/108/EC and 2006/95/EC for line voltage and/or -S versions Noise level <45 dB(A)	Electrical connection	½" conduit connector
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Feedback output U Input impedance Angle of rotation Torque Direction of rotation Position indication Running time ARB24-SR ARX24-SR ARX24-SR ABbient temperature Storage temperature Housing material Housing material Noise level Alge of rotation 180 in-lb [20 Nm] 180 in-lb	Overload protection	electronic throughout 0° to 95° rotation
Input impedance 100 kΩ (0.1 mA), 500 Ω Angle of rotation 90°, adjustable with mechanical stop Torque 180 in-lb [20 Nm] Direction of rotation reversible with protected with	Operating range Y	
Angle of rotation 90°, adjustable with mechanical stop Torque 180 in-lb [20 Nm] Direction of rotation reversible with protected // switch Position indication handle Manual override external push button Running time ARB24-SR ARX24-SR 300, 150, 90 seconds, constant independent of load Humidity 5 to 95% RH non-condensing (EN 60730-1) Ambient temperature -22°F to +122°F [-30°C to +50°C] Storage temperature -40°F to +176°F [-40°C to +80°C] Housing NEMA 2/IP54 Housing material UL94-5VA Agency listings† cULus according to UL 60730-1A/-2-14, CAN/CSA E60730-1:02, CE according to 2004/108/EC and 2006/95/EC for line voltage and/or -S versions Noise level <45 dB(A)	Feedback output U	1 to 10 VDC, max 0.5 mA
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Direction of rotation reversible with protected \(\scales \) switch Position indication handle Manual override external push button Running time ARB24-SR ARX24-SR ARX24-SR Solution indication handle with protected \(\scales \) switch button Running time ARB24-SR 300, 150, 90 seconds, constant independent of load Humidity 5 to 95% RH non-condensing (EN 60730-1) Ambient temperature -22°F to +122°F [-30°C to +50°C] Storage temperature -40°F to +176°F [-40°C to +80°C] Housing NEMA 2/IP54 Housing material UL94-5VA Agency listings† CULus according to UL 60730-1A/-2-14, CAN/CSA E60730-1:02, CE according to 2004/108/EC and 2006/95/EC for line voltage and/or -S versions Noise level 45 dB(A)	Angle of rotation	90°, adjustable with mechanical stop
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Manual override external push button Running time 90 seconds ARB24-SR 300, 150, 90 seconds, constant independent of load Humidity 5 to 95% RH non-condensing (EN 60730-1) Ambient temperature -22°F to +122°F [-30°C to +50°C] Storage temperature -40°F to +176°F [-40°C to +80°C] Housing NEMA 2/IP54 Housing material UL94-5VA Agency listings† cULus according to UL 60730-1A/-2-14, CAN/CSA E60730-1:02, CE according to 2004/108/EC and 2006/95/EC for line voltage and/or -S versions Noise level <45 dB(A)	Direction of rotation	reversible with protected \frown/\frown switch
Running time	Position indication	handle
ARB24-SR ARX24-SR 300, 150, 90 seconds, constant independent of load Humidity 5 to 95% RH non-condensing (EN 60730-1) Ambient temperature -22°F to +122°F [-30°C to +50°C] Storage temperature -40°F to +176°F [-40°C to +80°C] Housing NEMA 2/IP54 Housing material UL94-5VA Agency listings† cULus according to UL 60730-1A/-2-14, CAN/CSA E60730-1:02, CE according to 2004/108/EC and 2006/95/EC for line voltage and/or —S versions Noise level 45 dB(A)	Manual override	external push button
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Constant independent of load	ARB24-SR	90 seconds
Humidity	ARX24-SR	300, 150, 90 seconds,
(EN 60730-1) Ambient temperature -22°F to +122°F [-30°C to +50°C] Storage temperature -40°F to +176°F [-40°C to +80°C] Housing NEMA 2/IP54 Housing material UL94-5VA Agency listings† cULus according to UL 60730-1A/-2-14, CAN/CSA E60730-1:02, CE according to 2004/108/EC and 2006/95/EC for line voltage and/or -S versions Noise level <45 dB(A)		constant independent of load
Ambient temperature -22°F to +122°F [-30°C to +50°C] Storage temperature -40°F to +176°F [-40°C to +80°C] Housing NEMA 2/IP54 Housing material UL94-5VA Agency listings† cULus according to UL 60730-1A/-2-14, CAN/CSA E60730-1:02, CE according to 2004/108/EC and 2006/95/EC for line voltage and/or -S versions Noise level <45 dB(A)	Humidity	
Storage temperature		
Housing NEMA 2/IP54 Housing material UL94-5VA Agency listings† cULus according to UL 60730-1A/-2-14, CAN/CSA E60730-1:02, CE according to 2004/108/EC and 2006/95/EC for line voltage and/or -S versions Noise level <45 dB(A)	Ambient temperature	
Housing material UL94-5VA Agency listings† cULus according to UL 60730-1A/-2-14,	Storage temperature	-40°F to +176°F [-40°C to +80°C]
Agency listings† cULus according to UL 60730-1A/-2-14, CAN/CSA E60730-1:02, CE according to 2004/108/EC and 2006/95/EC for line voltage and/or –S versions Noise level <45 dB(A)	Housing	NEMA 2/IP54
CAN/CSA E60730-1:02, CE according to 2004/108/EC and 2006/95/EC for line voltage and/or –S versions Noise level <45 dB(A)	Housing material	
2004/108/EC and 2006/95/EC for line voltage and/or –S versions Noise level <45 dB(A)	Agency listings†	
and/or –S versions Noise level <45 dB(A)		
Noise level <45 dB(A)		
		Ť
Quality standard ISO 9001		
+ Dated impulses voltage 2001/ Control pollution degree 2. Type of action 1	Quality standard	

[†] Rated impulse voltage 800V, Control pollution degree 3, Type of action 1 (1.B for -S models)



	Valve Nominal Size		Dimensions (Inches [mm]		
Valve Body	Inches	DN [mm]	Α	В	
B231-B232	11/4"	32	3.72" [94.6]	2.04" [51.9]	
B238-B240	1½"	40	3.88" [98.5]	2.04" [51.9]	
B248-B250	2"	50	4.21" [107.0]	2.27" [57.7]	



Valve Nominal Size Dimensions (Inches [mm])						
Valve Body	Inches	DN [mm]	Α	В	C	
B329-B331	11⁄4"	32	3.96" [100.6]	2.27" [57.7]	2.14" [54.3]	
B338-B341	1½"	40	4.39" [111.6]	2.51" [63.7]	2.40" [61.1]	
B347-B352	2"	50	4.90" [124.5]	2.73" [69.5]	2.74" [69.7]	
		•				



AR...24-SR Actuators, Proportional

Wiring Diagrams



X INSTALLATION NOTES



CAUTION Equipment damage!

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 neg. (-) leg of control circuits.

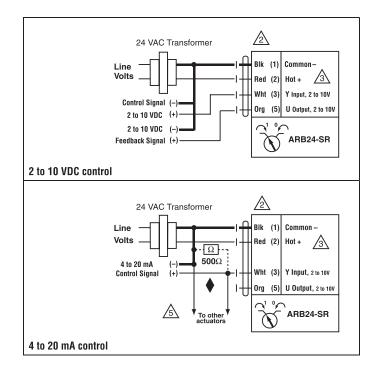


APPLICATION NOTES



The ZG-R01 500 Ω resistor converts the 4 to 20 mA control signal to 2 to 10 VDC, up to 2 actuators may be connected in parallel.

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.



800-543-9038 USA 866-805-7089 CANADA 203-791-8396 LATIN AMERICA

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