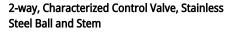


B262



BELLING AB





Type overview

Туре	DN
B262	65

Technical data

Functional data	Valve size [mm]	2.5" [65]
	Fluid	chilled or hot water, up to 60% glycol
	Fluid Temp Range (water)	0212°F [-18100°C]
	Body Pressure Rating	400 psi
	Close-off pressure Δps	100 psi
	Flow characteristic	equal percentage
	Pipe connection type	Internal thread
		NPT (female)
	Servicing	maintenance-free
	Flow Pattern	2-way
	Leakage rate	0% for A – AB
	Controllable flow range	75°
	Cv	75
Materials	Valve body	Nickel-plated brass body
	Stem	stainless steel
	Stem seal	EPDM (lubricated)
	Seat	PTFE
	Characterized disc	TEFZEL®
	O-ring	EPDM (lubricated)
	Ball	stainless steel
itable actuators	Non-Spring	ARB(X)
	Spring	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

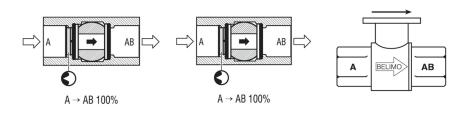
Product features

Application

on 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 reheat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.



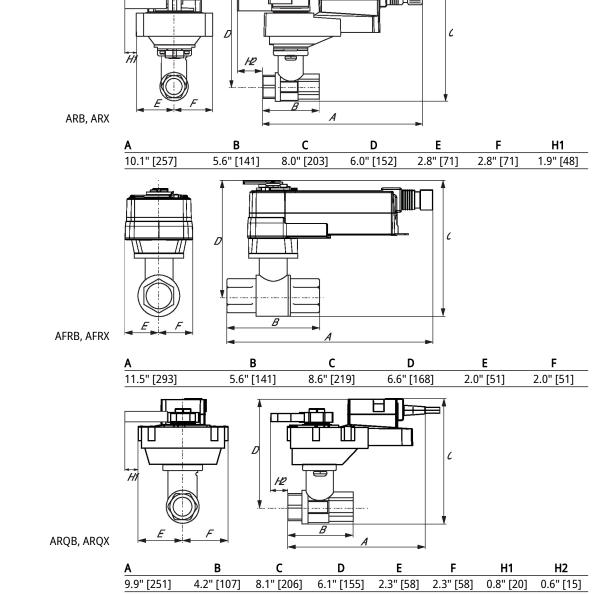
Flow/Mounting details



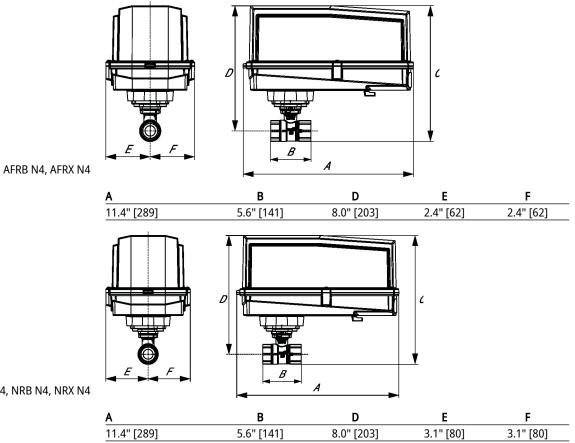
Two-way valves should be installed with the disc upstream.

Dimensions

Туре	DN	Weight
B262	65	8.1 lb [3.7 kg]







ARB N4, ARX N4, NRB N4, NRX N4



MFT/programmable, Spring return, 24 V







	N	
Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.228.8 V / DC 21.628.8 V
	Power consumption in operation	7.5 W
	Power consumption in rest position	3 W
	Transformer sizing	10 VA
	Electrical Connection	18 GA appliance cable, 3 ft [1 m], with 1/2" NPT conduit connector
	Overload Protection	electronic throughout 095° rotation
Functional data	Operating range Y	210 V
	Operating range Y note	420 mA w/ ZG-R01 (500 Ω, 1/4 W resistor)
	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
	Operating range Y variable	Start point 0.530 V End point 2.532 V
	Operating modes optional	variable (VDC, PWM, on/off, floating point)
	Position feedback U	210 V
	Position feedback U note	Max. 0.5 mA
	Position feedback U variable	VDC variable
	Direction of motion motor	selectable with switch
	Direction of motion fail-safe	reversible with cw/ccw mounting
	Manual override	5 mm hex crank (3/16" Allen), supplied
	Angle of rotation	90°
	Running Time (Motor)	150 s / 90°
	Running time motor variable	70220 s
	Running time fail-safe	<20 s
	Adaptation Setting Range	off (default)
	Override control	MIN (minimum position) = 0% MID (intermediate position) = 50% MAX (maximum position) = 100%
	Noise level, motor	45 dB(A)
	Noise level, fail-safe	62 dB(A)
	Position indication	Mechanical
Safety data	Power source UL	Class 2 Supply
	Degree of protection IEC/EN	IP66



Calate data		
Safety data	Degree of protection NEMA/UL NEMA 4X	
	Enclosure UL Enclosure Type 4X	
	Agency Listing cULus acc. to UL60730-1A	
	E60730-1:02, CE acc. to 20 2014/35/EU)14/30/EU and
	Quality Standard ISO 9001	
	Ambient humidity Max. 100% RH	
	Ambient temperature-22122°F [-3050°C]	
	Ambient temperature note-4050°C for actuator wit	th integrated heatir
	Storage temperature -40176°F [-4080°C]	
	Servicing maintenance-free	
Weight	Weight 6.7 lb [3.0 kg]	
Materials	Housing material Die cast aluminium and p	lastic casing
Footnotes	†Rated Impulse Voltage 800V, Type of Action 1, Control Pollution Degree	2.
Product features		
Default/Configuration	Default parameters for 2 to 10 VDC applications of the AFMFT actuator are assigned durin manufacturing. If required, custom versions of the actuator can be ordered. The parameters are variable and can be changed by three means: Factory pre-set or custom configuration, s by the customer using PC-Tool software or the handheld ZTH US.	
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	by the customer using PC-Tool software or the handheld ZTH US.	
Accessories	by the customer using PC-Tool software or the handheld ZTH US.	
Accessories Gateways	by the customer using PC-Tool software or the handheld ZTH US. Description	•
		om configuration, s
	Description Gateway MP to BACnet MS/TP Gateway MP to Modbus RTU	Type UK24BAC UK24MOD
Gateways	Description Gateway MP to BACnet MS/TP Gateway MP to Modbus RTU Gateway MP to LonWorks	Type UK24BAC UK24MOD UK24LON
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Gateways Electrical accessories	Description Gateway MP to BACnet MS/TP Gateway MP to Modbus RTU Gateway MP to LonWorks Description Service tool, with ZIP-USB function, for programmable and communicative Belimo actuators, VAV controller and HVAC performance devices Description Connecting cable 10 ft [3 m], A: RJ11 6/4 ZTH EU, B: 3-pin Weidmüller	Type UK24BAC UK24MOD UK24LON Type ZTH US
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Electrical accessories Tools	Description Gateway MP to BACnet MS/TP Gateway MP to Modbus RTU Gateway MP to LonWorks Description Service tool, with ZIP-USB function, for programmable and communicative Belimo actuators, VAV controller and HVAC performance devices Description Connecting cable 10 ft [3 m], A: RJ11 6/4 ZTH EU, B: 3-pin Weidmüller and supply connection Service tool, with ZIP-USB function, for programmable and communicative Belimo actuators, VAV controller and HVAC performance devices	Type UK24BAC UK24MOD UK24LON Type ZTH US Type ZK4-GEN ZTH US



Actuators with appliance cables are numbered. Provide overload protection and disconnect as required.



Actuators may also be powered by DC 24 V.

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

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

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

\Lambda IN4004 or IN4007 diode. (IN4007 supplied, Belimo part number 40155).

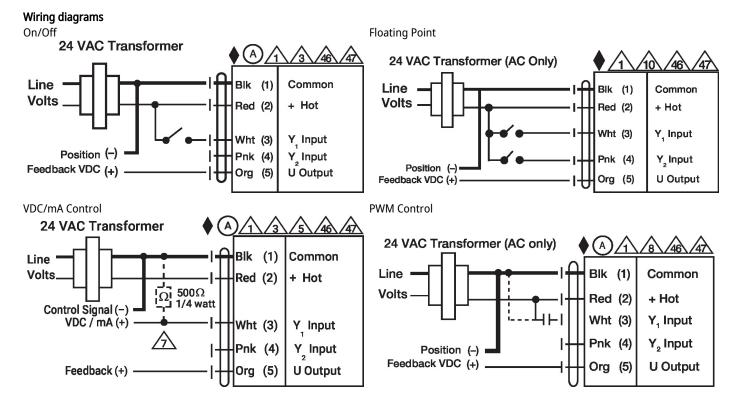
 \bigwedge_{46} Actuators may be controlled in parallel. Current draw and input impedance must be observed.

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

Meets cULus requirements without the need of an electrical ground connection.

Varning! 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.





AFRX24-MFT N4

Electrical installation

