





Type overview

Туре	DN
B240	40

BELLING

Technical data

Functional data	Valve size	1.5" [40]
	Fluid	chilled or hot water, up to 60% glycol
	Fluid Temp Range (water)	0250°F [-18120°C]
	Body Pressure Rating	400 psi
	Close-off pressure ∆ps	200 psi
	Flow characteristic	equal percentage
	Servicing	maintenance-free
	Flow Pattern	2-way
	Leakage rate	0% for A – AB
	Controllable flow range	75°
	Cv	37
	No Characterized Disc	TRUE
	Cv Flow Rating	A-port: as stated in chart B-port: 70% of A – AB Cv
Materials	Valve body	Nickel-plated brass body
	Stem	stainless steel
	Stem seal	EPDM (lubricated)
	Seat	PTFE
	Characterized disc	No Disc (full flow)
	Pipe connection	NPT female ends
	O-ring	EPDM (lubricated)
	Ball	stainless steel
Suitable actuators	Non-Spring	ARB(X) NRQB(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 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 AB A BELIMO AB Two-way valves should be installed with the 0% $A \rightarrow AB \ 100\%$ disc upstream. $\mathsf{A} \to \mathsf{AB}$ **Product features** Mode of operation Local Control SY2~12, 110vac Mod **Dimensions** DN Туре B240 40 ٢ ARB, ARX A В С D Ε F H1 H2 А 11.0" [280] 3.9" [100] 6.4" [163] 1.7" [44] 5.3" [134] 1.7" [44] 1.2" [30] 0.6" [15] ٢ 911 H ARB, ARX 120-3, 120-SR, MFT A В С D Ε F H1 H2 A 11.0" [280] 3.9" [100] 6.4" [163] 5.3" [134] 1.7" [44] 1.7" [44] 1.2" [30] 0.6" [15] ٢ H NRQB, NRQX

www.belimo.com

В

3.9" [100]

Α

11.0" [280]

С

7.1" [181]

D

6.0" [152]

Е

1.7" [44]

F

1.7" [44]

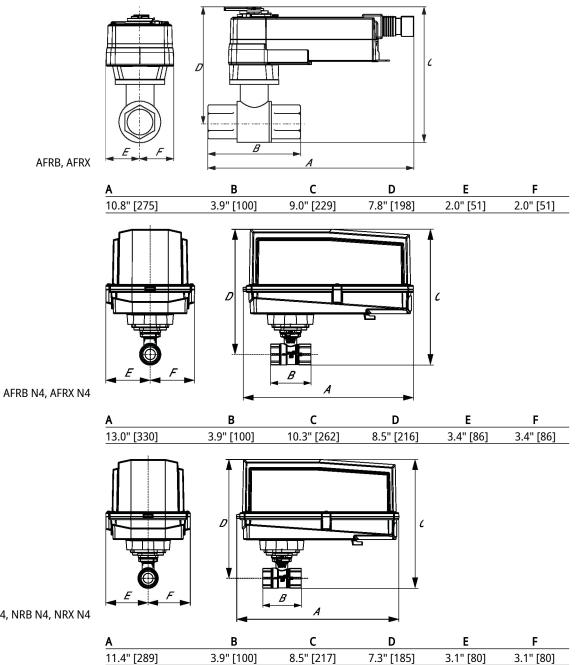
H1

1.4" [34]

H2

0.6" [15]





ARB N4, ARX N4, NRB N4, NRX N4



Technical data sheet

AFRX24-S N4



Technical data

	Nominal voltage frequency	50 (60 1)
		50/60 Hz
	Power consumption in operation	5 W
	Power consumption in rest position	2.5 W
	Transformer sizing	7.5 VA (class 2 power source)
	Auxiliary switch	2 x SPDT, 3 A resistive (0.5 A inductive) @ AC 250 V, one set at 10°, one adjustable 1090°
	Switching capacity auxiliary switch	3 A resistive (0.5 A inductive) @ AC 250 V
	Electrical Connection	(2) 18 GA appliance cables with 1/2" conduit connectors, 3 ft [1 m],
	Overload Protection	electronic throughout 095° rotation
Functional data	Direction of motion motor	selectable by ccw/cw mounting
	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)	75 s / 90°
	Running time fail-safe	<20 s
	Noise level, motor	45 dB(A)
	Noise level, fail-safe	62 dB(A)
	Position indication	Mechanical
Safety data	Degree of protection IEC/EN	IP66
	Degree of protection NEMA/UL	NEMA 4X
	Enclosure	UL Enclosure Type 4X
	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
	Ambient temperature	-22122°F [-3050°C]
	Ambient temperature note	-4050°C for actuator with integrated heating
	Storage temperature	-40176°F [-4080°C]
	Ambient humidity	Max. 100% RH
	Servicing	maintenance-free
Materials	Housing material	Die cast aluminium and plastic casing

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



Electrical installation

🔀 INSTALLATION NOTES

- (A) Actuators with appliance cables are numbered.
- Λ Provide overload protection and disconnect as required.
- Actuators may also be powered by DC 24 V.

Two built-in auxiliary switches (2x SPDT), for end position indication, interlock control, fan startup, etc.

- Actuators may be powered in parallel. Power consumption must be observed.
- A Parallel wiring required for piggy-back applications.

Apply only AC line voltage or only UL-Class 2 voltage to the terminals of auxiliary switches. Mixed or combined operation of line voltage/safety extra low voltage is not allowed.

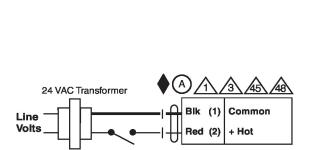
Meets cULus requirements without the need of an electrical ground connection.

Auxiliary Switches

Marning! 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.





S1 S2 S3 NC S3 NO 10° S4 S5 S6 0 10° to 90^{\circ}

Dimensions