

2-way, Characterized Control Valve, Stainless Steel Ball and Stem







Type overview

Туре	DN
B239	40

Technical data

Functional data	Valve size [mm]	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	
	Leakage rate	0% for A – AB	
	Pipe connection	Internal thread NPT (female)	
	Servicing	maintenance-free	
	Flow Pattern	2-way	
	Controllable flow range	75°	
	Cv	29	
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	
Suitable actuators	Non Fail-Safe	ARB(X)	
		ARQB(X)	
		NRQB(X)	
		ARB(X) N4	
	Spring	AFRB(X)	

Safety notes



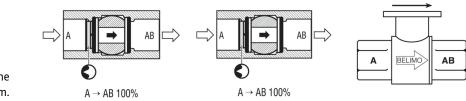
• WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov



Product features

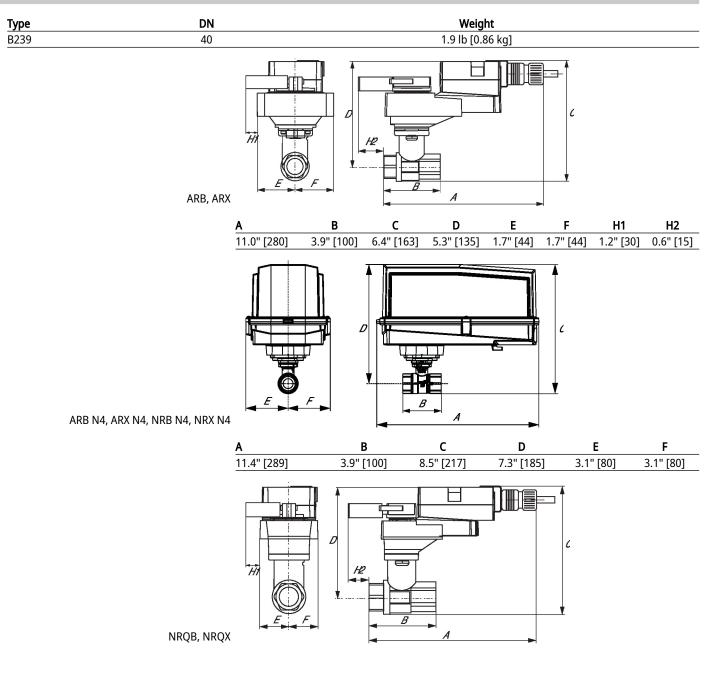
Application This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.

Flow/Mounting details

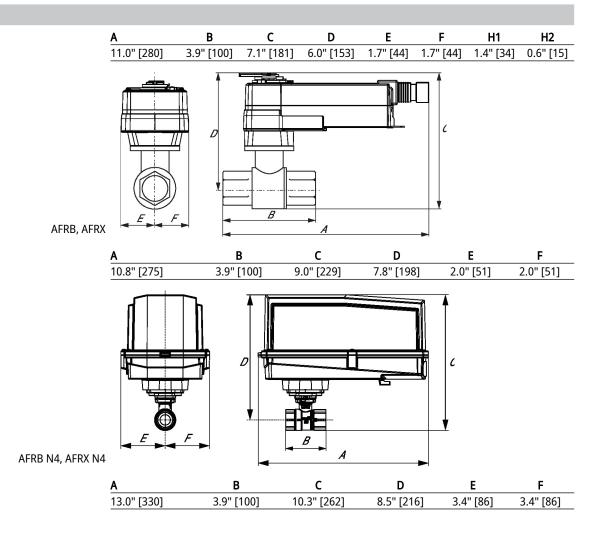


Two-way valves should be installed with the disc upstream.

Dimensions









Technical data sheet

AFRXUP N4



Technical data

Electrical data	Nominal voltage	AC 24240 V / DC 24125 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.2264 V / DC 21.6137.5 V
	Power consumption in operation	7 W
	Power consumption in rest position	3.5 W
	Electrical Connection	18 GA appliance cable, 1 m, with 1/2" NPT conduit connector
	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	Power source UL	Class 2 Supply
	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 humidity	Max. 100% RH
	Ambient temperature	-22122°F [-3050°C]
	Ambient temperature note	-4050°C for actuator with integrated heating
	Storage temperature	-40176°F [-4080°C]
	Servicing	maintenance-free
Weight	Weight	6.6 lb [3.0 kg]
Materials	Housing material	Die cast aluminium and plastic casing



AFRXUP N4

Factory add-on option only	Description	Туре
	Heater, with adjustable thermostat	ACT_PACK_H
	Heater, with adjustable thermostat	ACT_PACK_Y
Electrical installation		
7	✓ INSTALLATION NOTES	
(1	A Actuators with appliance cables are numbered.	
((JP) Universal Power Supply (UP) models can be supplied v to 125 VDC.	vith 24 VAC up to 240 VAC, or 24 VDC up
	Y Provide overload protection and disconnect as require	
4	Actuators may be powered in parallel. Power consum	ption must be observed.
Ŀ	Parallel wiring required for piggy-back applications.	
	Meets cULus requirements without the need of an elements	ctrical ground connection.
	🔨 Warning! Live electrical components!	
	During installation, testing, servicing and troubleshoo to work with live electrical components. Have a qualifi who has been properly trained in handling live electric Failure to follow all electrical safety precautions when could result in death or serious injury.	ed licensed electrician or other individu cal components perform these tasks.
Wiring diagrams		
24 to 240 VAC	<u>P/1\45\48\</u>	
Line Wht N-Wht (1)	Neutral	
Volts Bik L Bik (2)	Load	