

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 Δps	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)
	Carrier.	ARB(X) N4
	Spring	AFRB(X)

Safety notes



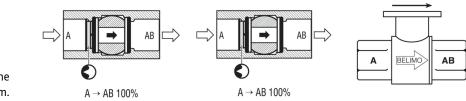
• WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov



Product features

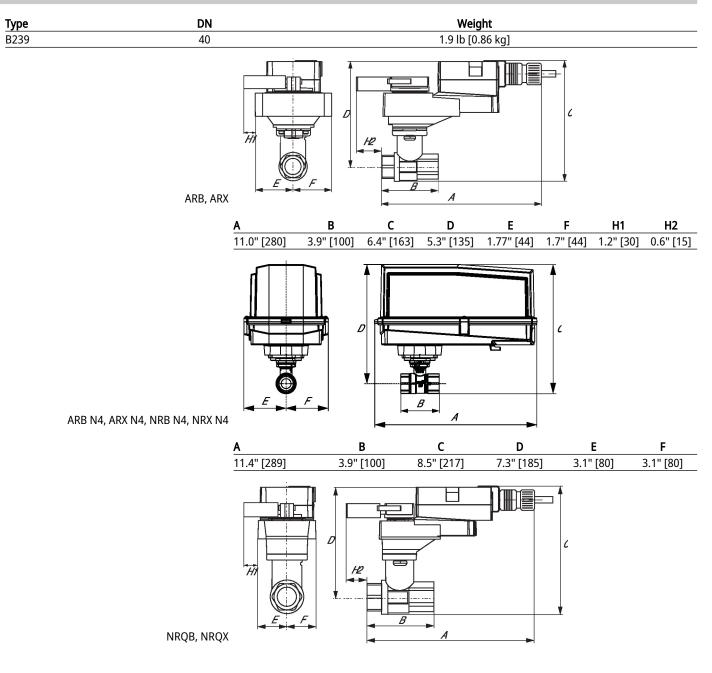
Application This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.

Flow/Mounting details

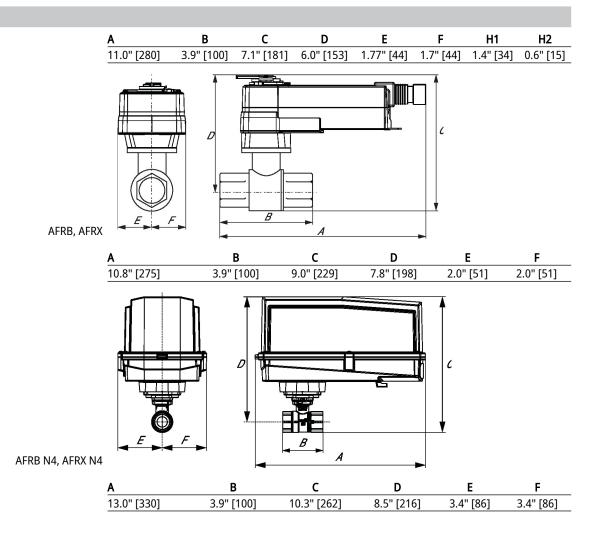


Two-way valves should be installed with the disc upstream.

Dimensions









On/Off, Spring return, 24 V









Technical data

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	5 W 2.5 W	
	Power consumption in rest position		
	Transformer sizing	7.5 VA	
	Electrical Connection	18 AWG 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	
	Housing	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 [104122°F] 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	
	Footnotes	†Rated Impulse Voltage 800V, Type of action 1.AA, Control Pollution Degree 3		
Accessories				
Factory add-on option only	Description	Туре		
		Heater, with adjustable thermos	tat ACT_PACK_H	
Electrical installat	tion			
		Parallel wiring required for piggy- Meets cULus requirements withou Warning! Live electrical componer During installation, testing, servici to work with live electrical compor who has been properly trained in	lisconnect as required. y DC 24 V. allel. Power consumption must be observed. back applications. ut the need of an electrical ground connection. htsl ing and troubleshooting of this product, it may be necessary nents. Have a qualified licensed electrician or other individual handling live electrical components perform these tasks. cy precautions when exposed to live electrical components	
Wiring diagrams				
On/Off				

