

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







_	
IVna	AVAR/IAW
IVPC	overview

Туре	DN
B240	40

Technical data

_					
Eun	ctio	nal	4:	ata.	

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	37
No Characterized Disc	TRUE

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
Non Fail-Safe	ARB(X) AROB(X)

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

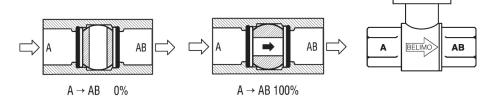


Product features

Application

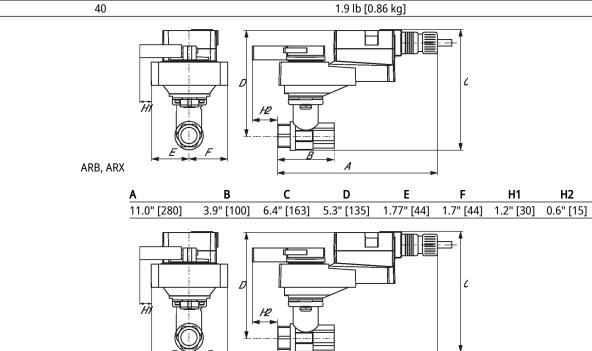
This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.

Flow/Mounting details

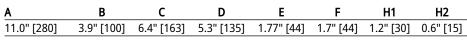


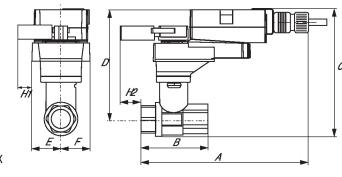
Two-way valves should be installed with the disc upstream.

Dimensions			
Туре	DN	Weight	
B240	40	1.9 lb [0.86 ka]	



ARB, ARX 120-3, 120-SR, MFT



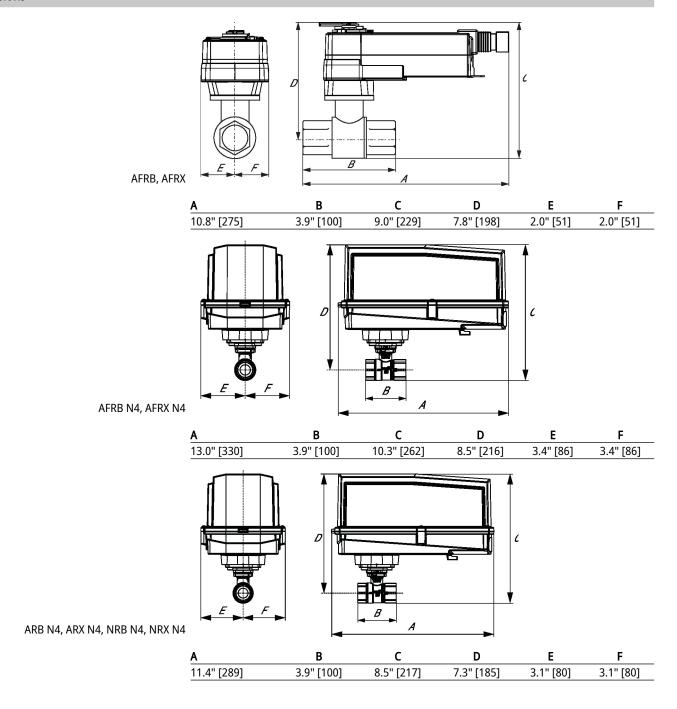


NRQB, NRQX

Α	В	C	D	E	F	H1	H2
11.0" [280]	3.9" [100]	7.1" [181]	6.0" [153]	1.77" [44]	1.7" [44]	1.4" [34]	0.6" [15]



Dimensions





On/Off, Spring return, 24...240 V





5-year warranty





Please note: Due to a supplier issue, certain NEMA 4 actuator covers will be supplied in gray instead of orange until further notice. This change ensures uninterrupted shipping, and the same protective properties and product specifications.

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 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

6.6 lb [3.0 kg]

Weight

Weight



Materials Housing material Die cast aluminium and plastic casing

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

Peripheral devices

Description	Туре
Cable conduit connector 1/2"	TF-CC US
Wrench 0.32 in and 0.39 in [8 mm and 10 mm]	TOOL-06
Mounting bracket for AF	ZG-100
Mounting bracket	ZG-101
for AF / NF	
Mounting bracket	ZG-118
for AF / NF	
Mounting kit for foot mount installation	ZG-AFB118
Weather shield 13x8x6" [330x203x152 mm] (LxWxH)	ZS-100
Weather shield 406x213x102 mm [16x8-3/8x4"] (LxWxH)	ZS-150
Explosion proof housing 16x10x6.435" [406x254x164 mm] (LxWxH), UL	ZS-260
and CSA, Class I, Zone 1&2, Groups B, C, D, (NEMA 7), Class III,	
Hazardous (classified) Locations	
Weather shield 17-1/4x8-3/4x5-1/2" [438x222x140 mm] (LxWxH), NEMA	ZS-300
4X, with mounting brackets	

Accessories

Factory add-on option only

Description	Туре
Heater, with adjustable thermostat	ACT_PACK_H
Heater, with adjustable thermostat	ACT_PACK_Y

Electrical installation

Wire colors:

1 = blue

2 = brown

AC 24...240 V / DC 24...125 V, on/ off

