







-	
IVA	AVARVIANI
IVUC	overview

Туре	DN
B240	40

#### **Technical data**

#### **Functional data**

1.5" [40]	
chilled or hot water, up to 60% glycol	
0250°F [-18120°C]	
400 psi	
200 psi	
equal percentage	
maintenance-free	
2-way	
0% for A – AB	
75°	
37	
TRUE	
A-port: as stated in chart B-port: 70% of A – AB Cv	

#### Materials

Valve body	Nickel-plated brass body	
Spindle	stainless steel	
Spindle seal	EPDM (lubricated)	
Seat	PTFE	
Characterized disc	No Disc (full flow)	
Pipe connection	NPT female ends	
O-ring	EPDM (lubricated)	
Ball	stainless steel	
Non-Spring	ARB(X)	

#### 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

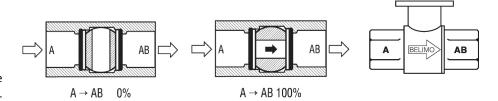


#### **Product features**

#### 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



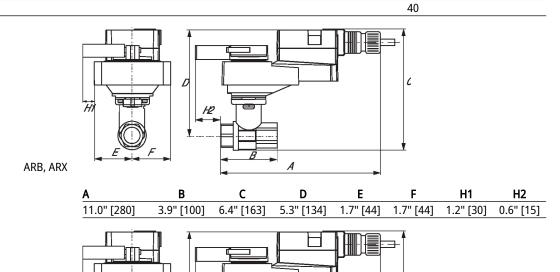
Two-way valves should be installed with the disc upstream.

#### **Product features**

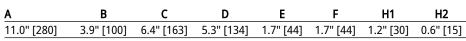
B240

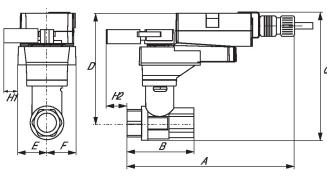
Mode of operation Local Control SY2~12, 110vac Mod

# Dimensions Type DN



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

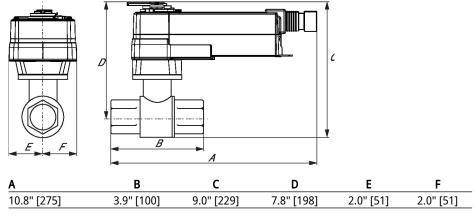




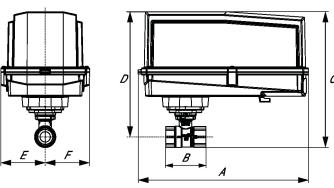
NRQB, NRQX

Α	В	С	D	E	F	H1	H2
11.0" [280]	3.9" [100]	7.1" [181]	6.0" [152]	1.7" [44]	1.7" [44]	1.4" [34]	0.6" [15]

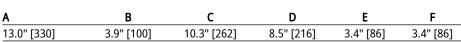


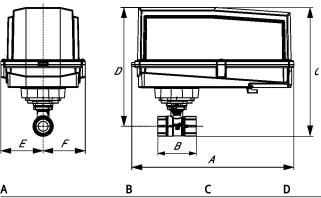


AFRB, AFRX



AFRB N4, AFRX N4





ARB N4, ARX N4, NRB N4, NRX N4

Α	В	C	D	E	F
11.4" [289]	3.9" [100]	8.5" [217]	7.3" [185]	3.1" [80]	3.1" [80]



Technical data		
Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	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)
	Electrical Connection	18 GA appliance or plenum cables, 3 ft [1 m], 10 ft [3 m] or 16ft [5 m], with or without 1/2" 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 @ 20°C
	Noise level, motor	45 dB(A)
	Noise level, fail-safe	62 dB(A)
	Position indication	Mechanical
Safety data	Degree of protection IEC/EN	IP54
	Degree of protection NEMA/UL	NEMA 2
	Enclosure	UL Enclosure Type 2
	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU and 2014/35/EU; Listed to UL 2043 - suitable for use in air plenums per Section 300.22(c) of the NEC and Section 602.2 of the IMC
	Quality Standard	ISO 9001
	Ambient temperature	-22122°F [-3050°C]
	Storage temperature	-40176°F [-4080°C]
	Ambient humidity	Max. 95% RH, non-condensing
	Servicing	maintenance-free
Materials	Housing material	Galvanized steel and plastic housing

**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.
Provide overload protection and disconnect as required.

Actuators may also be powered by DC 24 V.

Actuators may be powered in parallel. Power consumption must be observed.

Parallel wiring required for piggy-back applications.

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

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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.

# Wiring diagrams

On/Off 24 VAC Transformer