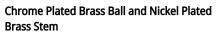


## **Technical data sheet**

**B340L** 







## Type overview

Туре	DN
B340L	40

### **Technical data**

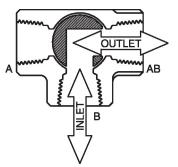
Functional data	Valve size [mm] 1.5" [40]	
	Fluid	chilled or hot water, up to 60% glycol
	Fluid Temp Range (water)	0250°F [-18120°C]
	Body Pressure Rating	400 psi
	Close-off pressure Δps	200 psi
	Flow characteristic	modified linear
	Servicing	maintenance-free
	Flow Pattern	3-way Diverting
	Leakage rate	0%
	Controllable flow range	75°
	Cv	57
Materials	Valve body	Nickel-plated brass body
	Stem	nickel-plated brass
	Seat	PTFE
	Pipe connection	NPT
	Ball	chrome plated brass
uitable actuators	Non-Spring	ARB(X)
	Spring	AFRB(X)

#### **Product features**

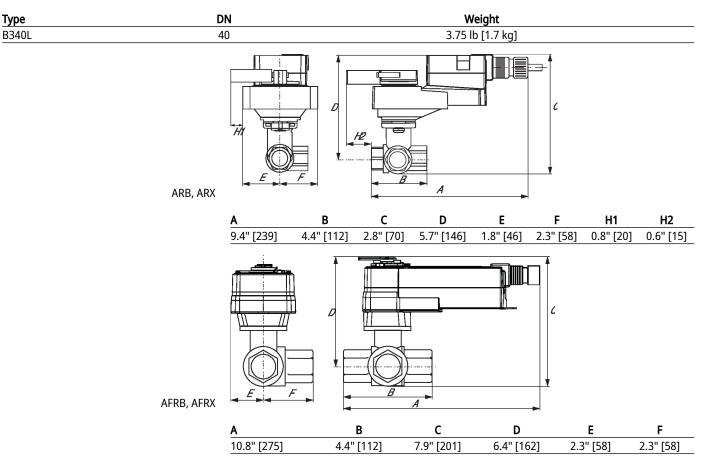
Application

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 as diverting or change over valve.

#### Flow/Mounting details









Modulating, Spring Return, 24 V, Multi-

Function Technology®

# AFRX24-MFT

5-year warranty

CE



## **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	7.5 W
	Power consumption in rest position	3 W
	Transformer sizing	10 VA
	Electrical Connection	18 GA appliance or plenum cables, 1 m, 3 m or 5 m, with or without 1/2" conduit connector
	Overload Protection	electronic throughout 095° rotation
Functional data	Operating range Y	210 V
	Operating range Y note	420 mA w/ ZG-R01 (500 Ω, 1/4 W resistor)
	Input Impedance	100 k $\Omega$ for 210 V (0.1 mA), 500 $\Omega$ for 420 mA, 1500 $\Omega$ for PWM, On/Off and Floating point
	Operating range Y variable	Start point 0.530 V
		End point 2.532 V
	Operating modes optional	variable (VDC, PWM, on/off, floating point)
	Position feedback U	210 V
	Position feedback U note	Max. 0.5 mA
	Position feedback U variable	VDC variable
	Direction of motion motor	selectable with switch
	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)	150 s / 90°
	Running time motor variable	70220 s
	Running time fail-safe	<20 s @ 20°C
	Adaptation Setting Range	off (default)
	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	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
	Quality Standard	ISO 9001
	<u>, , , ,</u>	



Technical data sheet

AFRX24-MFT

DELIIVIO	l'echnical data sheet	AFRX24-MF1	
Safety data		Suitable for use in air plenums per Section 300.22(C) of the NEC and Section 602 of the IMC	
	Ambient humidity Max. 9	5% RH, non-condensing	
	Ambient temperature -2212	22°F [-3050°C]	
		76°F [-4080°C]	
	Servicing mainte	nance-free	
Weigh	Weight 4.1 lb [	1.9 kg]	
Material	Housing material Galvan	Galvanized steel and plastic housing	
Footnotes	†Rated Impulse Voltage 800V, Type of action 1.AA, Control Pollution Degree 3		
Product features			
Default/Configuration	Default parameters for 2 to 10 VDC applications of the AFMFT actuator are assigned during manufacturing. If required, custom versions of the actuator can be ordered. The parameters are variable and can be changed by three means: Factory pre-set or custom configuration, set by the customer using PC-Tool software or the handheld ZTH US.		
Factory settings	Default parameters for 2 to 10 VDC applications of the AFMFT actuator are assigned during manufacturing. If required, custom versions of the actuator can be ordered. The parameters are variable and can be changed by three means: Factory pre-set or custom configuration, set by the customer using PC-Tool software or the handheld ZTH US.		
Accessories			
Gateways	Description	Туре	
	Gateway MP to BACnet MS/TP Gateway MP to Modbus RTU Gateway MP to LonWorks	UK24BAC UK24MOD UK24LON	
Electrical accessories	Description	Туре	
	Service Tool, with ZIP-USB function, for programmable communicative Belimo actuators, VAV controller and HV devices		
Tools	Description	Туре	
	Connection cable 10 ft [3 m], A: RJ11 6/4 ZTH EU, B: 3-pi supply connection		
	Service Tool, with ZIP-USB function, for programmable communicative Belimo actuators, VAV controller and HV devices		
Electrical installation			
	<ul> <li>Actuators with appliance cables are numbered.</li> <li>Actuators with appliance cables are numbered.</li> <li>Provide overload protection and disconnect as required</li> <li>Actuators may also be powered by DC 24 V.</li> <li>Only connect common to negative (-) leg of control circo</li> <li>A 500 Ω resistor (ZG-R01) converts the 420 mA contro</li> <li>Control signal may be pulsed from either the Hot (Sour</li> <li>For triac sink the Common connection from the actuator connection of the controller. Position feedback cannot actuator internal common reference is not compatible.</li> <li>IN4004 or IN4007 diode. (IN4007 supplied, Belimo part Actuators may be controlled in parallel. Current draw a Master-Slave wiring required for piggy-back application input(s) of Slave(s).</li> </ul>	uits. I signal to 210 V. ce) or Common (Sink) 24 V line. or must be connected to the Hot be used with a triac sink controller; the t number 40155). nd input impedance must be observed. ns. Feedback from Master to control	



# **Technical data sheet**

### Warning! 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.

