



2-year warranty



Type overview

Type	DN
B340L	40

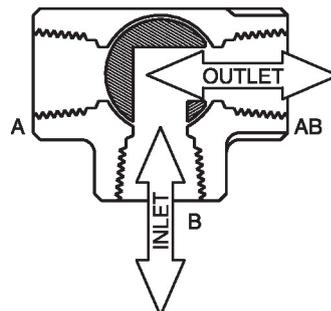
Technical data

<b>Functional data</b>	Valve size [mm]	1.5" [40]
	Fluid	chilled or hot water, up to 60% glycol
	Fluid Temp Range (water)	0...250°F [-18...120°C]
	Body Pressure Rating	400 psi
	Close-off pressure $\Delta$ ps	200 psi
	Flow characteristic	modified linear
	Servicing	maintenance-free
	Flow Pattern	3-way Diverting
	Leakage rate	0%
	Controllable flow range	75°
	Cv	57
<b>Materials</b>	Valve body	Nickel-plated brass body
	Spindle	nickel-plated brass
	Seat	PTFE
	Pipe connection	NPT female ends
	Ball	chrome plated brass
<b>Suitable actuators</b>	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 re-heat coils and bypass loops. This valve is suitable for use as diverting or change over valve.

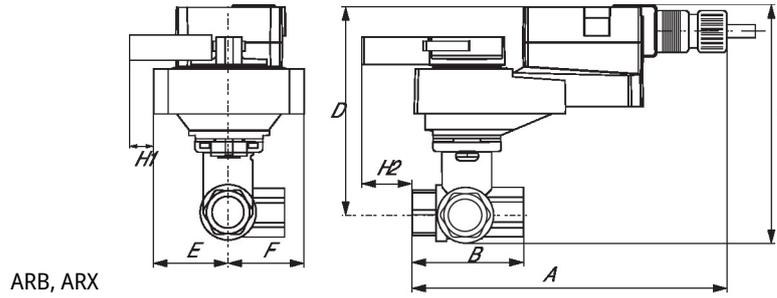
Flow/Mounting details



Dimensions

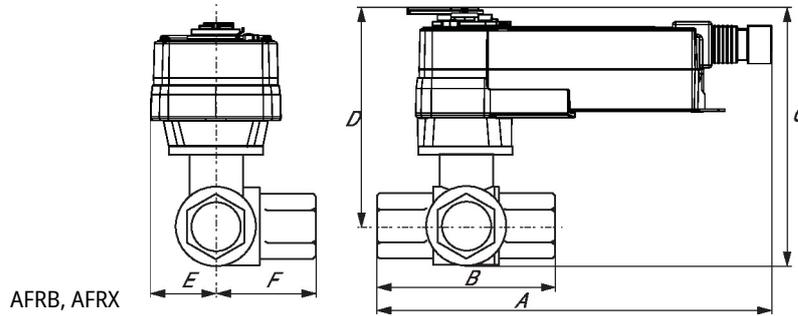
Type  
B340L

DN  
40



ARB, ARX

A	B	C	D	E	F	H1	H2
9.4" [239]	4.4" [112]	2.8" [70]	5.7" [146]	1.8" [46]	2.3" [58]	0.8" [20]	0.6" [15]



AFRB, AFRX

A	B	C	D	E	F
10.8" [275]	4.4" [112]	7.9" [201]	6.4" [162]	2.3" [58]	2.3" [58]



5-year warranty



## Technical data

<b>Electrical data</b>	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Power consumption in operation	2.5 W
	Power consumption in rest position	0.5 W
	Power consumption for wire sizing	5.5 VA
	Transformer sizing	5.5 VA (class 2 power source)
	Electrical Connection	18 GA plenum cable, 3 ft [1 m], with 1/2" conduit connector
	Overload Protection	electronic throughout 0...90° rotation
<b>Functional data</b>	Direction of motion motor	selectable with switch 0/1
	Manual override	external push button
	Angle of rotation	90°
	Angle of rotation note	adjustable with mechanical stop
	Running Time (Motor)	90 s / 90°
	Noise level, motor	45 dB(A)
Position indication	Mechanically, pluggable	
<b>Safety data</b>	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 Listed to UL 2043 - suitable for use in air plenums per Section 300.22(C) of the NEC and Section 602 of the IMC
	Quality Standard	ISO 9001
	Ambient temperature	-22...122°F [-30...50°C]
	Storage temperature	-40...176°F [-40...80°C]
	Ambient humidity	Max. 95% RH, non-condensing
	Servicing	maintenance-free
	<b>Materials</b>	Housing material

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

## Accessories

Electrical accessories	Description	Type
	Battery backup system, for non-spring return models	NSV24 US
	Battery, 12 V, 1.2 Ah (two required)	NSV-BAT

Electrical installation

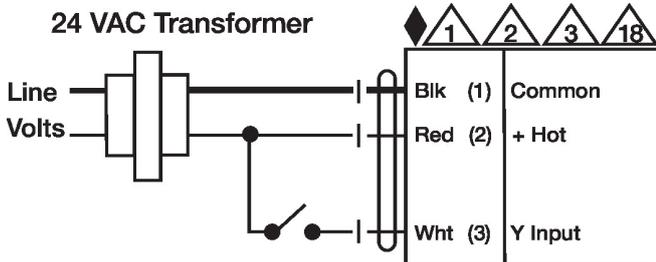
**✂ INSTALLATION NOTES**

- 1** Provide overload protection and disconnect as required.
- 3** Actuators may also be powered by DC 24 V.
- 6** Actuators Hot wire must be connected to the control board common. Only connect common to neg. (-) leg of control circuits. Terminal models (-T) have no-feedback.
- 18** Actuators with plenum cable do not have numbers; use color codes instead.
- ◆ Meets cULus requirements without the need of an electrical ground connection.
- 1** **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.

**Wiring diagrams**

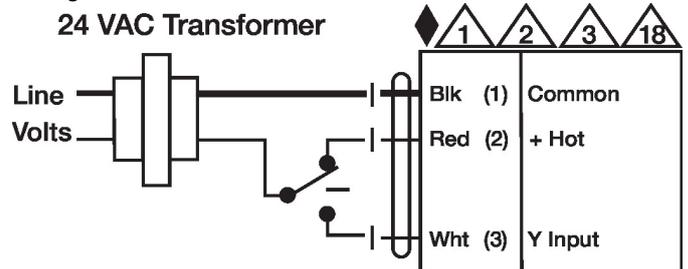
On/Off

24 VAC Transformer

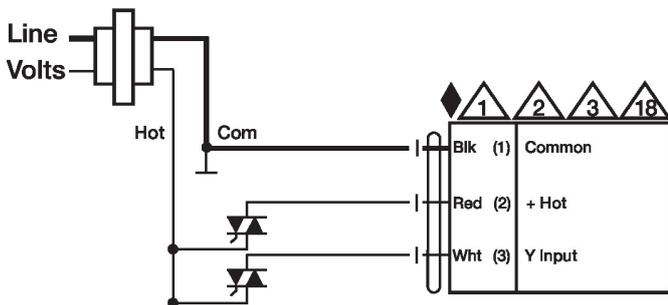


Floating Point

24 VAC Transformer

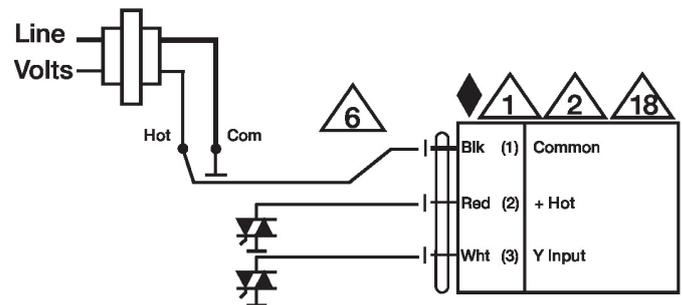


24 VAC Transformer



Floating Point - Triac Sink

24 VAC Transformer



## Dimensions

