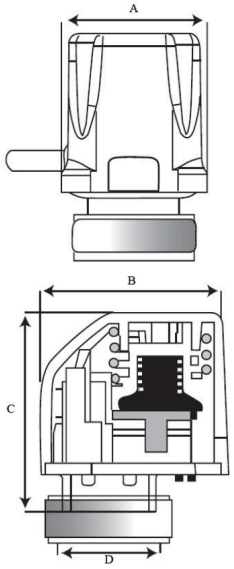
Thermostatic Operators For RAD Series



AVO-5 Electric Operator
24 VAC N.C or N.O

Technical Data

Type	AVO-5
Voltage	24V AC
Initial Current	200 mA
Power Consumption	1.8 W
Opening/Closing Time	5 min
Actuating Force*	N.O: 18 lbf (80N) N.C: 25 lbf (110 N)
Ambient Temperature	32-122°F (0-50°C)
Connection Cable	3.28 ft (1 m)

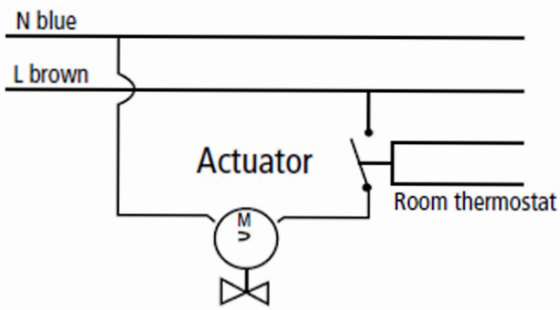
*+/-10%

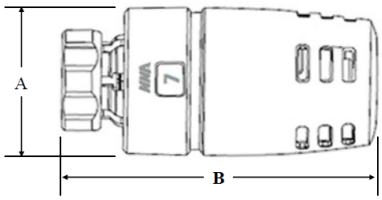
Installation Orientation

The AVO-5 should be installed in a vertical or horizontal position. Overhead installation may reduce actuator life under certain conditions.

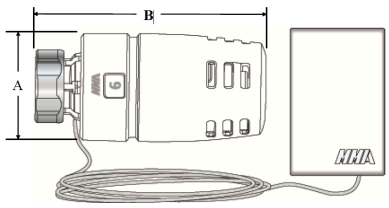
The AVO-5 is designed for use with the RAD Series radiator valves and provide reliable electric control for radiators, fin-tube, zones, solar panels, heat pumps and other hydronic heating applications. The compact, low power actuator operates on 24 VAC and is available in normally open or normally closed configurations.

Wiring Diagram





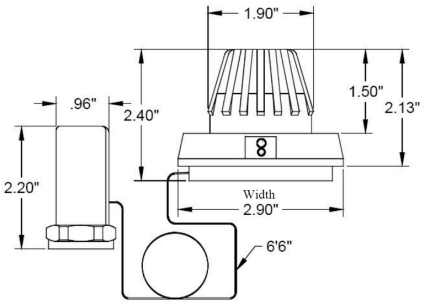
THERMO-28 Operator



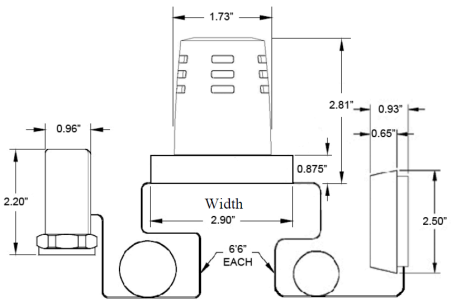
THERMO-Z Operator Remote Sensor

Dial Settings

0	Off	
*	50°F	Frost Protection
1	54°F	
3	61°F	
5	68°F	
7	75°F	
8	79°F	
9	82°F	



THERMO-L Operator (Wall Mount)
Height = 3.88" not shown in drawing.



THERMO-LZ w/ Remote Sensor (Wall Mount)
Height = 3.88" not shown in drawing.

The THERMO Operators can be easily adjusted to a comfortable temperature. The temperature to scale relationship is shown to the left. The lowest setting provides freeze protection at approximately 50°F with a high setting of 82°F. Temperature settings on all THERMO Operators may be limited or locked.

Physical Data - Thermostatic Operators

Type	Thermo-28 Operator		Thermo-Z Operator w/ Remote Sensor		Thermo-L Operator (Wall Mount)		Thermo-LZ Operator w/ Remote Sensor		AVO-5 Electric Operator	
	in	mm	in	mm	in	mm	in	mm	in	mm
"A"	1-3/4	43	1-3/4	43	-	-	-	-	1-9/16	40
"B"	3-11/16	93	3-11/16	93	-	-	-	-	1-15/16	50
"C"	-	-	-	-	-	-	-	-	2-1/16	52
"D"	-	-	-	-	-	-	-	-	1-1/8	28
Capillary Length, ft (m)	-		6-1/2 or 16-1/2 (2 or 5)		6-1/2 (2)		6-1/2 or 16-1/2 (2 or 5)		-	
Weight, lb (kg)	0.26 (0.12)		0.26 (0.12)		0.62 (0.28)		0.69 (0.31)		0.31 (0.14)	

Designs, materials, weights and performance ratings are approximate and subject to change without notice. Visit armstronginternational.com for up-to-date information.