

# Fan Coil Actuators

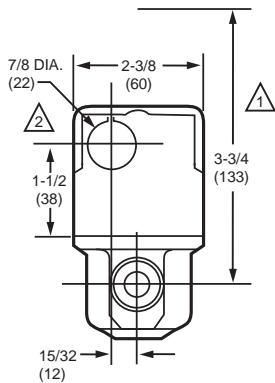
## VU443, VU444; VU843; VU844 Fan Coil Actuators



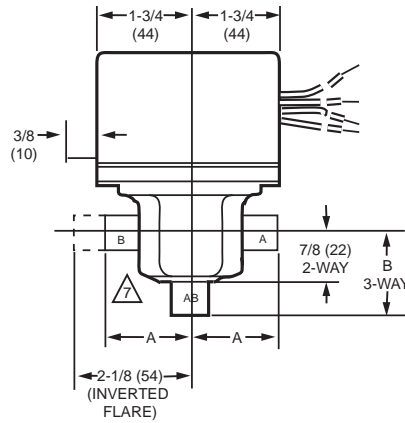
The VU844 Fan Coil Valve Actuators are used in conjunction with the VU52, VU53 and VU54 valves for controlling the flow of hot or chilled water in commercial HVAC equipment such as fan coil units, terminal reheat coils and convectors. These valves are humidity resistant and are suitable for use in condensing, non-corrosive environments.

- Compact construction for easy installation
- Fits under the cover of most baseboard convectors with actuator fitted to valve body
- One-button, quick release
- Secure 3-point, metal latch to valve body
- Spring return operation
- Stainless steel case and aluminum cover
- Rust-proof nickel-plated motors available
- Line or low voltage, rust-resistant motors
- Manual opener for installation and valve operation on power failure
- Valve returns to automatic position when power is restored
- Actuator may be reinstalled or serviced without draining the system or disassembling the valve
- Slotted conduit hole for faster wiring

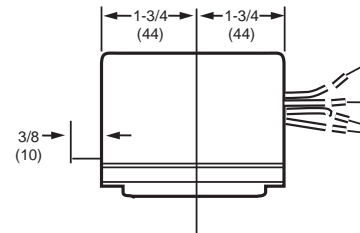
### Dimensions in inches (millimeters)



VU53 VALVE WITH VU448 ACTUATOR



VU53 AND VU54 VALVE WITH ACTUATOR



VU5 ACTUATOR

- 1 HEIGHT NEEDED TO REMOVE ACTUATOR OR COVER
- 2 OPENING FOR 1/2 IN. CONDUIT ON OPPOSITE SITE OF MANUAL LEVER FOR ALL MODELS.

VALVE BODY SIZE	A	B
1/2 IN. SWEAT	1-5/6 (33)	1-5/6 (33)
3/4 IN. SWEAT	1-3/8 (35)	1-11/16 (43)
1 IN. SWEAT	1-11/16 (43)	1-11/16 (43)
1/2 IN. NPT	1-3/8 (35)	1-5/16 (33)
3/4 IN. NPT	1-11/16 (43)	1-7/16 (37)
1 IN. NPT	1-11/16 (43)	1-7/16 (37)

M18261A

**Actuator Type:** Valve  
**Fail Safe Mode:** Spring Return  
**Dimensions, Approximate:** 2 3/8 in. high, 3 1/2 in. wide, 2 3/8 in. wide (62 mm high, 88 mm wide, 60 mm deep)  
**Electrical Connections:** Leads  
**Frequency:** 60 Hz  
**Manual operation:** Lever  
**Stroke:** 22 deg.  
**Power Consumption (driving):** 6 Watts

**Materials:** Stainless Case, Aluminum Cover  
**Maximum Differential Pressure Ratings (Close-off):** Depends on Cv rating of valve  
**Medium Temperature:** 200 F (94 C)  
**Ambient Temperature Range:** 34 F to 125 F ambient at 200 F Fluid (1 C to 52 C ambient at 93 C Fluid)  
**Approvals**  
**Canadian Standards Association:** Certified C/US File No. LR1322

Product Number	Control Signal	Timing (seconds) Maximum Driving @ 60 Hz	Type of Internal Auxiliary Switch	Switch Ratings	Supply Voltage	Electrical Connection Length		Type of Internal Auxiliary Switch	Number of Internal Auxiliary Switch	Stroke (inch)	Spring Return Timing (Nominal) (sec)	Comments	Used With
						(inch)	(m)						
VU443A1008/U	Two position; SPST	15 sec	—	—	120V	6 in.	0.15 m	—	0	22 deg.	4 sec.	For controlling the flow of hot or chilled water in commercial HVAC equipment such as fan coil units, terminal reheat coils and convectors	2-way NC VU valve body (VU53)
VU443A1024/U	Two position; SPST	15 sec	—	—	208V	18 in.	0.5 m	—	0	22 deg.	4 sec.		

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Product Number	Control Signal	Timing (seconds)	Type of Internal Auxiliary Switch	Switch Ratings	Supply Voltage	Electrical Connection Length		Type of Internal Auxiliary Switch	Number of Internal Auxiliary Switch	Stroke (inch)	Spring Return Timing (Nominal) (sec)	Comments	Used With
		Maximum Driving @ 60 Hz				(inch)	(m)						
VU443A1057/U	Two position; SPST	15 sec	—	—	277V	18 in.	0.5 m	—	0	22 deg.	4 sec.	For controlling the flow of hot or chilled water in commercial HVAC equipment such as fan coil units, terminal reheat coils and convectors	2-way NC VU valve body (VU53)
VU443A1115/U	Two position; SPST	15 sec	—	—	230V	6 in.	0.15 m	—	0	22 deg.	4 sec.	Nickel plated motor for added humidity resistance; For controlling the flow of hot or chilled water in commercial HVAC equipment such as fan coil units, terminal reheat coils and convectors	
VU443A1180/U	Two position; SPST	15 sec	—	—	120V	6 in.	0.15 m	—	0	22 deg.	4 sec.	Nickel plated motor for added humidity resistance; For controlling the flow of hot or chilled water in commercial HVAC equipment such as fan coil units, terminal reheat coils and convectors	
VU443E1009/U	Two position; SPST	15 sec	SPST, N.O.	1 A Pilot Duty	120V	18 in.	0.5 m	SPST, N.O.	1	22 deg.	4 sec.	For controlling the flow of hot or chilled water in commercial HVAC equipment such as fan coil units, terminal reheat coils and convectors; Aux Switch Rating - Inductive: 2.2 A from 5 to 110 Vac, 1.0 A from 110 to 277 Vac	
VU444A1007/U	Two position; SPST	15 sec	—	—	120V	6 in.	0.15 m	—	0	45 deg.	6 sec.	For controlling the flow of hot or chilled water in commercial HVAC equipment such as fan coil units, terminal reheat coils and convectors	2-way NO (VU52) or 3-way VU valve body (VU54)
VU444A1098/U	Two position; SPST	15 sec	—	—	227V	18 in.	0.5 m	—	0	45 deg.	6 sec.	Nickel plated motor for added humidity resistance; For controlling the flow of hot or chilled water in commercial HVAC equipment such as fan coil units, terminal reheat coils and convectors	
VU444A1106/U	Two position; SPST	15 sec	—	—	230V	6 in.	0.15 m	—	0	45 deg.	6 sec.	Nickel plated motor for added humidity resistance; For controlling the flow of hot or chilled water in commercial HVAC equipment such as fan coil units, terminal reheat coils and convectors	
VU444A1155/U	Two position; SPST	15 sec	—	—	120V	6 in.	0.15 m	—	0	45 deg.	6 sec.	Nickel plated motor for added humidity resistance; For controlling the flow of hot or chilled water in commercial HVAC equipment such as fan coil units, terminal reheat coils and convectors	
VU843A1004/U	Two position; SPST	15 sec	—	—	24V	6 in.	0.15 m	—	0	22 deg.	4 sec.	For controlling the flow of hot or chilled water in commercial HVAC equipment such as fan coil units, terminal reheat coils and convectors	2-way NC VU valve body (VU53)
VU843A1087/U	Two position; SPST	15 sec	—	—	24V	6 in.	0.15 m	—	0	22 deg.	4 sec.	Nickel plated motor for added humidity resistance; For controlling the flow of hot or chilled water in commercial HVAC equipment such as fan coil units, terminal reheat coils and convectors	
VU844A1003/U	Two position; SPST	15 sec	—	—	24V	6 in.	0.15 m	—	0	45 deg.	6 sec.	For controlling the flow of hot or chilled water in commercial HVAC equipment such as fan coil units, terminal reheat coils and convectors	2-way NO (VU52) or 3-way VU valve body (VU54)
VU844A1060/U	Two position; SPST	15 sec	—	—	24V	6 in.	0.15 m	—	0	45 deg.	6 sec.	Nickel plated motor for added humidity resistance; For controlling the flow of hot or chilled water in commercial HVAC equipment such as fan coil units, terminal reheat coils and convectors	