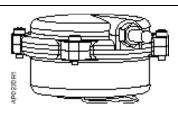


Technical Instruction

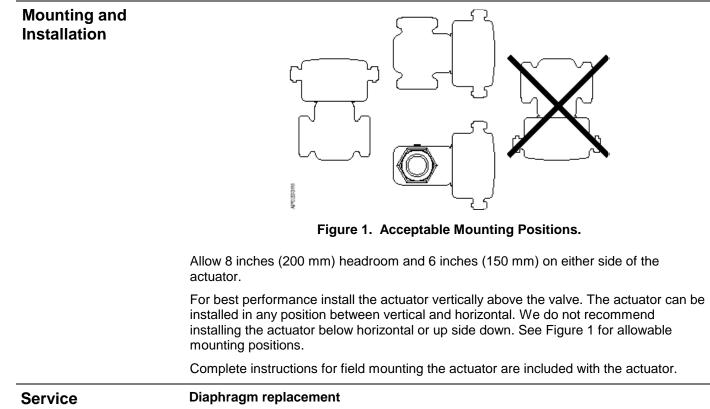
Document No. 155-189P25 AP 599-4 January 16, 2006

Powermite 599 Series MT Series 2-inch Pneumatic Valve Actuator



Description	The Powermite 599 Series MT Series 2-inch pneumatic valve actuator is designed for use with the Powermite 599 Series MT Series terminal unit valves with a 7/32-inch (5.5 mm) stroke.				
Features	Low profile				
	Freely rotates to aid tubing installation				
	Easy installation and removal				
	All metal housing				
Application	These 2-inch pneumatic actuators are designed to be used on Powermite MT Series terminal unit valves requiring a minimum of 67 pounds force (300N). They can be used in liquid and steam service applications.				
Product Number	599 -01088	Actuator Prefix	Prefix code when combining with a		
		10 to 15 psi spring rang	ge valve 256		
		3 to 8 psi spring range valve 257			
		8 to 13 spring rang	ge valve 258		
Ordering Information	To order a complete valve plus actuator assembly from the factory, combine the actuator prefix code with the suffix of the valve product number. See <i>Technical Bulletin (TB)</i> 251 (155-306P25) for selection procedures.				
	To order an actuator only, use the product number listed above				
Specifications	Effective diaphragm area		3.4 inch ² (22 cm ²)		
•	Diaphragm material		Silicone		
	Nominal spring range		Valve dependent		
	Span		5 psi (34 kPa) valve dependent		
	Nominal stroke		7/32-inch (5.5 mm)		
	Maximum diaphragm pressure		35 psi (241 kPa)		
	Air Connection		1/8" N.P.T. fitting for 1/4-inch OD plastic tubing		
	Ambient temperature	e			
	Transportation		-40 to 180°F (-40 to 82°C)		
	Operating		35 to 120°F (-2 to 49°C)		

Specifications, Continued	Mounting location Dimensions Weight	NEMA 1 (interior only) See Figure 2 0.43 lb (0.2 kg)		
Service Kit	Diaphragm replacement kit (Package of five)	656-736		
Operation	The control air signal upon the diaphragm causes the valve to modulate whenever the air pressure is within the spring range of the valve.			



Complete instructions are included in the diaphragm replacement kit.

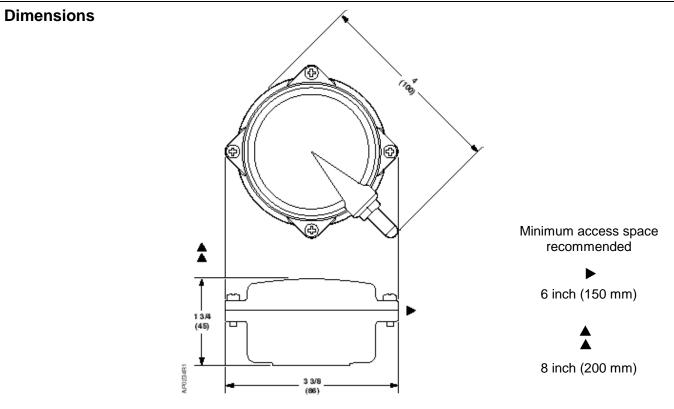


Figure 2. Dimensions in inches. Millimeters in parentheses.



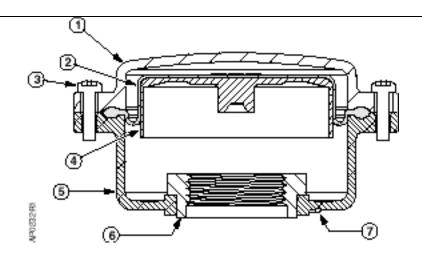


Figure 3. Powermite AP 599 Series 2-inch Pneumatic Valve Actuator.

ltem	Description		Material	
1	Upper housing		Aluminum	
2	Diaphragm		Silicone	
3	Thread forming screw	4	Zinc plated steel	
4	Piston cup	1	Aluminum	
5	Lower housing	1	Aluminum	
6	Lower housing retaining nut	1	Brass	
7	Retaining clip	1	Galvanized steel	
Not shown	1/8" N.P.T. fitting for 1/4 OD plastic tubing	1	Brass	

Table 1.	Parts of	the Actuator.	See	Figure	3.
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