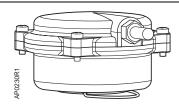
SIEMENS

Technical Instruction

Document No. 155-189P25 AP 599-4 Rev. 1, November, 1998

Powermite 599 Series

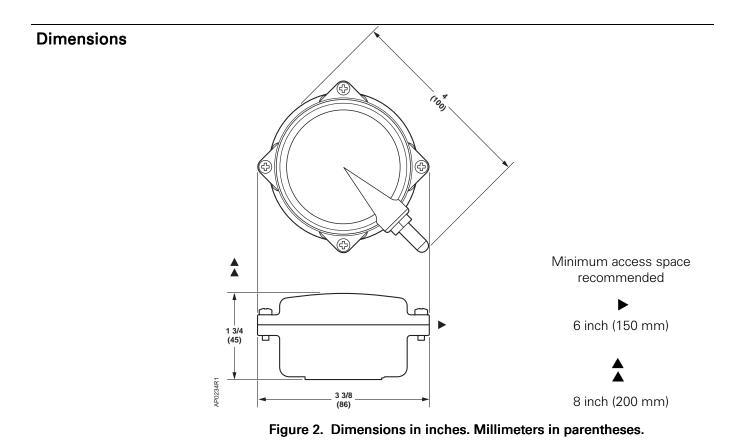
MT Series 2-inch Pneumatic Valve Actuator



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 code when combining with a			
		Normally closed valve	256		
		Normally open valve	257		
		Three-way 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. Refer to Technical Bulletin (TB) 251(155-306P25) for selection procedures.				
	To order an actuator only, use the product number listed above				
Specifications	Effective diaphragm area		3.4 in ² (22 cm ²)		
	Diaphragm material	Silio	Silicone		
	Nominal spring range	Val	ve dependent		
	Span	5 p	5 psi (34 kPa) valve dependent		
	Nominal stroke	7/3:	32-inch (5.5 mm)		
	Maximum diaphragm pre-	ssure 35	psi (241 kPa)		
	Air Connection		1/8" N.P.T. fitting for 1/4-inch OD plastic tubing		
	Ambient temperature				
	Transportation		-40 to 180°F (-40 to 82°C)		
	Operating	35 ·	35 to 120°F (-2 to 49°C)		

Specifications, con't	Mauration languing	NEMA 1 (interior cult)			
	Mounting location	NEMA 1 (interior only)			
	Dimensions Maight	Refer to Figure 2.			
	Weight	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.				
Mounting and Installation	TARESTORY AND THE PROPERTY OF				
	Figure 1. Acceptable Mounting Positions.				
	Allow 8 inches (200 mm) headroom and 6 inches (150 mm) on either side of the actuator.				
	For best performance install the actuator vertically above the valve. The actuator can be installed in any position between vertical and horizontal. We do not recommend installing the actuator below horizontal or up side down. Refer to Figure 1 for allowable mounting positions.				
	ctuator are included with the actuator.				
Service	Diaphragm replacement				

Complete instructions are included in the diaphragm replacement kit.



Actuator Details

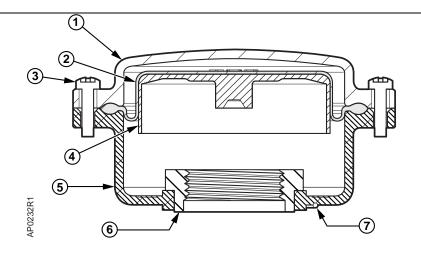


Figure 3. Powermite AP 599 Series 2-inch Pneumatic Valve Actuator.

Table 1. Parts of the Actuator. Refer to Figure 3.

Item	Description	Q'ty	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

Information in this publication is based on current specifications. The company reserves the right to make changes in specifications and models as design improvements are introduced. © 1998 Siemens Building Technologies.

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