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FEATURES

- Compact Size and Lightweight Construction
- Simple Push Button Manual Override Design with Exclusive Fold-Out Lever Handle Provides for Easy Manual Operation
- Unique Heat Dissipation Design Allows High Duty Cycles at Full Operating Torque
- Teflon[®] Coated Cast Aluminum Base, Dupont[®] FR50 Cover and Stainless External Trim for Maximum Corrosion Resistance
- Integral Thermal Overload Protection Circuit & Permanently Lubricated Drive Train
- Two 1/2" NPT Conduit Ports

emini Valve offers the 600 Series electric actuators for use with all sizes of the Gemini 76, 82, 86, 96, 309 and 89 Series ball valves. Two model sizes are available, the 150 in-lb model 615 and the 300 in-lb model 630.

Both models are mounted to the valves with a compact mounting system that assures rigid and precise coupling of the actuator to the valve. Our unique system features machined alignment brackets oriented with precision locator elements that serve to absorb the reaction torque independent of the mounting bolts. The end result is a system that eliminates backlash, misalignment and the common problem of the mounting bolts loosening while in service.

The 600 Series electric actuators have been designed for durability and longevity. The cast aluminum base dissipates internal heat through a special thermal conductor that pulls heat from the motor and allows for cooler operation during high duty cycle operation. The permanently lubricated drive train and brushless motor is housed within a Viton® sealed enclosure to protect against moisture and contamination. As a final measure of electrical protection all AC motors utilize auto-resetting thermal overload circuits. Standard Enclosure is NEMA 4X.

Both models come standard with an effective and reliable manual override. The push-button operated override with exclusive fold-out lever handle allows the user to disengage the drive train and effortlessly turn the valve. The override system will automatically re-engage the drive train in the proper orientation when power is reconnected.

Options include up to four limit switches to signal accessory devices, heater & thermostat, and voltages of 24, 120, 240 VAC, and 12 & 24 VDC (120VAC is standard).



Made In The USA

Manual Override Operation

The push-button manual override system allows the user to easily disengage the electric drive gear train for manual operation of the actuator. All external power must be off prior to using the manual override feature. The actuator manual override handle can be used in the closed or open (lever extended) position to provide additional leverage. To open the handle, pinch the Lever Release Buttons and pull up. Press down the manual override button (atop the center) and turn the handle to manually open or close the actuated valve assembly. To reengage the drive train, release the override button and turn the handle until the manual override button 'clicks' signaling the re-engagement of the drive train. The manual override lever handle can then be closed.

Specifications / Dimensions

Motor (AC Models):

Reversing, Brushless, Capacitor-Run Motors with Auto-Reset Thermal Overload Protection. 120VAC 50/60 Hz, Single Phase,Maintenance-free Permanently Lubricated Gear Train.



Enclosure:

Corrosion Resistant Teflon® Coated Aluminum Base. Two 1/2" NPT Conduit Ports Prevent Interference Between Control and Power Signals. Cover made from Fire Resistant, Impact Resistant, UL Approved Dupont ® FR50. Shaft and External Trim made from 18-8 Stainless Steel. NEMA 4X



Model		Cycle Time (Seconds)		Duty Cycle*	Н	I	
615-120AC	150	6	0.5	100%	10.35	7.19	
630-120AC	300	6	0.9	75%	10.85	7.69	

* Duty Cycle Measured at Maximum Output, 70° F Ambient

Assembly Dimensions

76, 86/96 Series









\ \	/alve Serie	S	Dimensions - Inches											
76	86	96	A	76 B	86/96 B	С	D	E	F	G	Н	I	J	К
1/2	1/4 & 3/8	-	1.00	2.18	2.18	1.15	3.00	6.74	6.25	4.75	2.23	2.78	5.77	10.35
3/4	1/2	-	1.18	2.22	2.61	1.24	3.00	6.74	6.25	4.75	2.23	2.78	5.77	10.35
1	3/4	1/2	1.50	2.76	2.94	1.40	3.00	6.74	6.25	4.75	2.23	2.78	5.77	10.35
1-1/4	1	3/4	1.94	3.02	3.32	1.62	3.00	6.74	6.25	4.75	2.23	2.78	5.77	10.35
1-1/2	1-1/4	1	2.12	3.45	3.70	1.76	4.80	7.24	6.25	4.75	2.23	2.78	5.77	10.85
2	1-1/2	1-1/4	2.62	4.04	4.25	2.02	4.80	7.24	6.25	4.75	2.23	2.78	5.77	10.85
-	2	1-1/2	3.00	-	4.57	2.21	4.80	7.24	6.25	4.75	2.23	2.78	5.77	10.85

82 Series









	Tube Size		Dimensions - Inches												
		А	В	С	D	Е	F	G	Н	Ι	J	Κ	L		
	1/4	.50	3.72	1.15	3.00	6.74	6.25	4.75	2.23	2.78	9/16	5.77	10.35		
	3/8	.50	3.70	1.15							11/16	5.77	10.35		
	1/2	.50	3.94	1.15							7/8	5.77	10.35		
	3/4	.59	4.17	1.24							1-1/8	5.77	10.35		
	1	.75	4.92	1.40							1-1/2	5.77	10.35		

Assembly Dimensions

89 Series







STD. Port	FULL Port		Dimensions - Inches											
		А	В	С	D	Е	F	G	Н	I	J	K	L	
1/2	1/4 & 3/8	2.18	3.18	1.59	2.50	6.74	6.25	4.75	2.23	2.78	1.97	5.77	10.35	
3/4	1/2	2.34	3.38	1.67	2.75	6.74	6.25	4.75	2.23	2.78	1.97	5.77	10.35	
1	3/4	2.86	3.74	1.93	3.25	6.74	6.25	4.75	2.23	2.78	1.97	5.77	10.35	
1-1/4	1	3.20	4.56	2.33	3.75	7.24	6.25	4.75	2.23	2.78	1.97	5.77	10.85	
1-1/2	1-1/4	3.84	4.66	2.65	4.50	7.24	6.25	4.75	2.23	2.78	1.97	5.77	10.85	
2	1-1/2	4.00	5.12	2.77	4.75	7.24	6.25	4.75	2.23	2.78	1.97	5.77	10.85	

309 Series



LIMITED WARRANTY - Copy Available Upon Request.

Specifications subject to change without notice and without obligation on the part of the manufacturer.

Note: A small amount of lubricant is often used in the assembly of the internal components of the valve.