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UPDATE (January 2025): Legacy Series Pneumatic Actuators - Actuator Models:



B411D - B412D - A421D - A422D / DOUBLE-ACTING



B412SR - A422SR / SPRING-RETURN

Background: Geminis' 400 Model Pneumatic Actuators were the industry's 1st Direct-Mount Ball Valve to Actuator Design patented in the early 1970s. In 2001 Gemini Valve introduced our Model 500 Pneumatic Actuators. This new design took advantage of production and raw material efficiencies which reduced costs. New features include integral NAMUR Pilot/ Solenoid Interface, Lower Air Supply Pressure(s) Requirements, and Spring Return models with Dual (vs. Single) Spring Modules to name a few. The Model 500 Pneumatic Actuators for most applications even provide for longer service life. Lastly, the Model 500 utilizes the same Ball Valves as the Model 400.

Availability: Due to the redundancy of basic functions between the two models (400 & 500) combined with changes in demand, Gemini Valve will begin to discontinue manufacturing 400 models as customers continue to take advantage of the new features and lower costs of 500 models. As noted above, Gemini still manufactures the exact same Ball Valve models.

Models No Longer Available: **A421D – A422SR**

Models With Limited Availability: **A422D**

Upgrade / Replace Your Actuator from Model 400 to Model 500: Use the following chart to learn which **500 Model** replaces your **400 Model**.

Models 400			Models 500	
B411D	Double-Acting	➡	A512D	Double-Acting
B412D				
B412SR	Spring-Return	➡	A512SR	Spring-Return
A421D	Double-Acting	➡	A522D	Double-Acting
A422D				
A422SR	Spring-Return	➡	A522SR	Spring-Return

To mount your new **Model 500** Actuator to your existing Ball Valve you will also require the following actuator mounting hardware.

General Industrial & Tube Compression Series				Serviceable Series - Model 89	
Models			Model 500 Mounting Hardware	Center Section Port Size	Model 500 Mounting Hardware
76	86 / 82	96			
Connection Size					
1/2	1/4 & 3/8	-	PMK-1-A510	0.5	PMK89-1-A510
3/4	1/2	-	PMK-2-A510	0.6	
1	3/4	1/2	PMK-3-A510	0.8	
1-1/4	1	3/4	PMK-4-A510	1.0	PMK89-4-A520
1-1/2	1-1/4	1	PMK-5-A520	1.2	
2	1-1/2	1-1/4	PMK-6-A520	1.5	
-	2	1-1/2	PMK-7-A520		

NOTE: When ordering suffix -K is added to Mounting Hardware Model to indicate Kit Form