

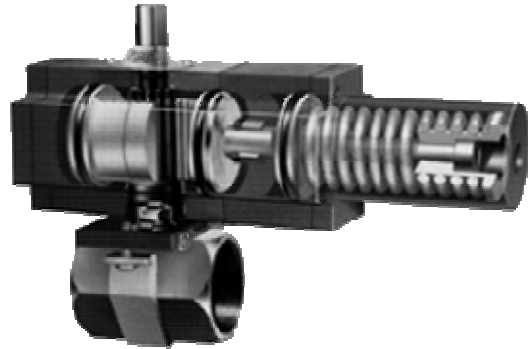


**VALVE AND FLOW CONTROL SPECIALISTS**  
*SERVICE AND RELIABILITY*



***A400 SERIES PNEUMATIC ACTUATORS FOR  
OPERATING GEMINI BALL VALVES***

**Gemini Pneumatically Actuated Ball Valves (wholly made in USA) offer a unique combination of three elements required for long trouble free life - a premium quality ball valve, a quality actuator designed to meet the torque requirements of the valve, and a mounting bracket and connection which assures alignment and rigidity.**



**FEATURES**

- **MODULAR CONSTRUCTION**
- **SIMPLE CONVERSION FROM**
- **DOUBLE ACTING TO SPRING RETURN**
- **ADAPTABLE TO EITHER SPRING TO OPEN OR CLOSE**
- **COMPACT, LIGHTWEIGHT ALUMINUM ALLOY**
- **BODY - TEFLON IMPREGNATED HARD**
- **ANODIZED SURFACES**
- **STAINLESS STEEL EXTERNAL TRIM**
- **VITON O-RINGS STANDARD**
- **DIRECT VALVE STEM COUPLING TO ACTUATOR**  
**MINIMIZES BACKLASH**
- **VALVE STEM NUT POSITIVELY FIXED WITHIN**  
**ACTUATOR SHAFT PREVENTS BACKOFF DURING**  
**OPERATION**
- **MANUAL OVERRIDE**
- **EASY VISIBLE OPEN / SHUT POSITION READ OUT**
- **AVAILABLE WITH LIMIT SWITCHES AND PILOT**  
**VALVES**

**Carried in Stock AUSTRALIA**



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## **ACTUATOR SELECTION AND SPECIFICATIONS**

Use the **ACTUATOR DIMENSIONAL CHART** to find the actuator recommended for the valve you wish to operate and the air supply that you have available.

### **TEMPERATURE**

Gemini Pneumatic Actuators are designed to operate in ambient temperatures between -20 F and +350 F. Care must be taken to assure that the moisture content of the air supply is sufficiently low to prevent icing within the actuator.

### **AIR SUPPLY**

Sufficient air delivery must be available at the actuator to ensure dependable operation. The following precautions should be observed.

- Air supply should be clean and dry. When dirty or wet air is a problem, a filter / separator should be specified; these units are most effective when installed as closely as possible to the actuator. A filter, when used, should permit a minimum flow of 4 scfm at an upstream pressure of 60 psi.
- Eliminate severe restrictions to air flow (as found in certain solenoid valves and fittings). The most restricted flow passage must have an area no smaller than .002 in sq, the area of 1/16" diameter orifice. If more than a single actuator is to be supplied by an individual pilot, the minimum passage requirement applies per actuator.
- Tubing: For short runs, up to 5 feet, 1/4" I.D. tubing is suitable; 5/16" I.D. will serve up to 30 feet. For longer runs, use 3/8" I.D. or larger.

### **PORT CONNECTIONS**

All actuators are 1/8" NPT (female). Double Acting Models: When viewed from above, pressure applied to the port marked 'A' causes counter-clockwise rotation of the actuator shaft; pressure applied to port 'B' causes counter-clockwise rotation of the actuator shaft; the spring causes clockwise rotation.

### **ACTUATED VALVE MATERIALS**

In most actuated valve applications the use of a brass ball and stem are not recommended. The use of a brass ball and stem may increase the valve torque beyond the output capacity of the actuator in certain applications. The use of a stainless steel ball and stem can significantly enhance the life of the valve.