



The global leader in customized valve automation.

# Selecting the Right Actuator

**What is your Valve Type?**

**Knife Gate Valve**

Manufacturer will have your thrust information.

**Globe Valve**

CAGE GUIDED  
Manufacturer will have your thrust information.

**Gate Valve**

Solid wedge?  
Flex wedge?  
Thru conduit?

**Rising Stem Ball Valve**

Metal or soft seat?  
Preferred or non-preferred flow?

**What is the maximum differential pressure?**

**What is the desired failure position?**

- 1) Fail in Place (double acting actuator - least expensive option)
- 2) Fail Closed or open on Loss of Signal (double acting actuator with spring return directional control valve)
- 3) Fail Closed or open on Loss of Supply AFS (double acting actuator with air fail system c/w storage tank)
- 4) Fail Closed or open on Loss of Supply SR (spring return actuator)

**Power Supply?**

**Pneumatic**

Available pressure?  
More pressure =  
Less money.

**Hydraulic**

Available pressure?  
More pressure =  
Less money.

**Electric**

Voltage?

DC

AC

Phase?  
1) Single  
2) Three

Hertz?  
1) 50  
2) 60

**Do you need additional controls?**

- 1) Limit switches
- 2) Positioners

**Ratings?**

- |                    |        |            |          |
|--------------------|--------|------------|----------|
| 1) NEMA 4          | 3) CL  | 5) GRP     | 7) Other |
| 2) Explosion proof | 4) DIV | 6) CENELEC |          |

**Other options?**

- |                    |                                |                                |                     |
|--------------------|--------------------------------|--------------------------------|---------------------|
| 1) Cushioning      | 3) Stainless steel piston rods | 5) Field installation services | 7) Manual Overrides |
| 2) Air fail system | 4) Valve mounting services     | 6) Lock out devices            |                     |