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.

UNBALANCED
1) Flow tends to open?
2) Flow tends to close?

Gate Valve

1) Solid wedge?
2) Flex wedge?
3) Thru conduit?

Rising Stem Ball Valve

1) Metal or soft seat?
2) 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? — Hertz?

Phase?
1) Single
2) Three

Hertz?
1) 50
2) 60

Do you need additional controls?

1) Limit switches
2) Positioners

Ratings?

1) NEMA 4
2) Explosion proof
3) Class
4) Div
5) Group
6) Cenelec
7) Other

Other options?

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

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