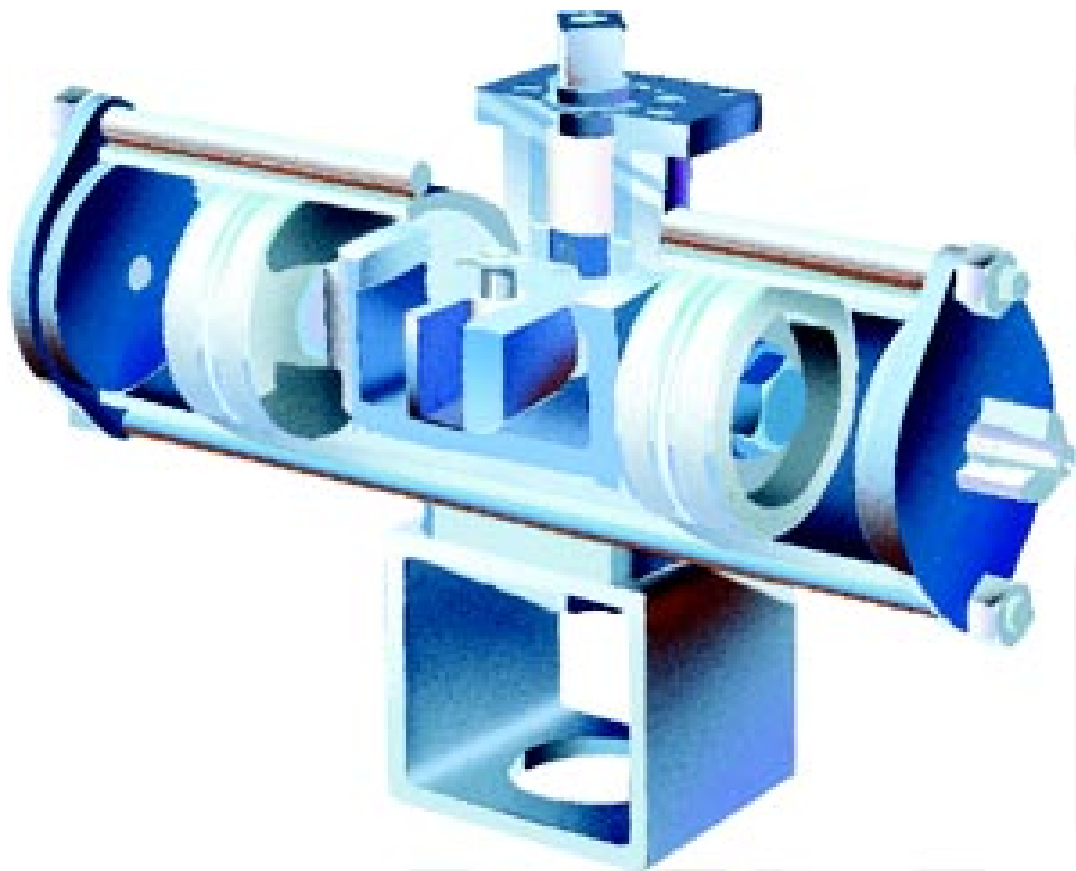


RP - Series

Rotary Piston Valve Actuators



Shafer[®]

valve operating
systems

APPLICATION

Economical operation of medium sized quarter-turn valves.

- For operation of ball, plug and butterfly valves or other 90° rotation equipment.
- Quarter-turn valve applications on natural gas. The actuators are typically powered by natural gas.
 - Natural gas transmission lines
 - Station Blowdown
 - Engine Loading/Unloading
- Actuator power pressures in the range of 400 psi to 1,650 psi (27.6 to 113.8 bars) will yield the best value with RP-Series actuators.
- Subsea valve control at depths up to 300 meters.
Reference: "Subsea Valve Control Systems" Bulletin



CAPABILITIES

- Double acting or spring return operation.
- Power supply pressure range:
 - 50 to 1,650 psi (3.4 to 113.8 bars).
 - Hydraulic, gas, pneumatic
- Ambient temperature range:
 - -20°F to 250°F (-29°C to 121°C) Standard
 - -50°F to 250°F (-45°C to 121°C) Optional
- Torque output range:
 - 600 to 175,000 in-lbs. (68 to 19,772 N-m)

FEATURES

- The steel actuator body is completely fabricated for high pressure construction and maximum safety
- Cylinder is hard chrome plated to prevent wear and inhibit corrosion.
- Teflon wear rings and heavy bronze bushings for extended cycle life.

CONTROLS AND ACCESSORIES



At Shafer we design, build and test the complete valve control system, including the actuator, controls and accessories. When you specify Shafer, you receive a complete valve operating system, factory tested, field proven and **guaranteed**.

RP-Series actuators can be operated locally, remotely, or automatically by a variety of sensory and control devices. We have developed over 4000 individual control systems to meet the many requirements of our customers.

■ TYPICAL CONTROL SYSTEMS

- Local Manual
- Remote Two-Way Electric
- Emergency Shutdown or Fail-Safe
- High/Low Pressure Shutoff

All accessories used by Shafer have undergone thorough testing and field evaluation to insure their performance as part of a larger system.

■ COMMON ACCESSORIES

- Poppet type, positive seal, control valves
- Control Valves, Pneumatic and Hydraulic
- Sensors for Triggering Automatic Operation
- Power Storage Vessels and Power Supply Units
- Limit Switches and Position Transmitters
- Speed Controls
- Regulators
- Filters



QUOTATIONS

For additional information or quotations, please contact one of our sales engineers or your local Shafer representative. To assist us in responding to your inquiry, please have as much of the following information available as possible.

■ **Application Description:**

General description of the actuator requirements and valve control function.

■ **Valve Description:**

Manufacturer, size, stroke length, type, rating, model, stem diameter, maximum differential pressure, thrust requirements, stroking speed requirements, and the valve's operating temperature range.

■ **Actuator Power Supply:**

Hydraulic - gas - pneumatic - gas/oil.
Pressure range of the power supply.

■ **Control Description and Accessories:**

Description of the actuator control function. Pilot pressures, electrical supply voltages, pressure sensing requirements, etc., where applicable. Requirements for position indication, emergency manual operation, speed control, power supply filtration, etc.

■ **Environment:**

Ambient temperature range.
Corrosion considerations.

Bulletin RP-0499