

# WHY QTRCO

The QTRCO "Q" and "QB" Series ¼ Turn Rack & Gear actuators offer many benefits not found in common rack and pinion or scotch yoke actuators. Our offset pistons eliminate internal, life shortening, cantilever loads while the patented saddle assembly contributes to having the lowest friction actuator on the market. Low friction, combined with the rack and pinion operating mechanism produce an exceptional throttling control capability as well as economical on-off operation. Many additional features, as well as the fact that the "Q" and "QB" Series actuators are made of 316 stainless steel – inside and out – make the QTRPAQ an excellent choice for actuating all ¼ turn valves.



## QTRCO Because...

### Long Life and Less Maintenance

The low friction design decreases wear and increases cycle life while also simplifying maintenance should it be needed

### Direct Mounting to all Butterfly Valves

Female shafting and universal mounting design eliminates brackets and couplings

### Standardized Accessory Mountings

Full NAMUR accessory drive dimensions assure compatibility to industry standard switches and positioners such as the Efezor series of switches

### Easy Field Reversibility

Duplicate drive dimensions on top and bottom enable reversal of spring failure by simply turning the actuator over

### Enhanced Positioning Control

Extremely low internal friction combined with the linear rack and pinion torque curve enable precise position selection

### Opening "Jump" Eliminated

Outward piston travel reduces trapped air volume that cause 'jump' on common R&P actuators

### Corrosion Prevention

All 316 stainless steel construction – inside and out – provides unsurpassed resistance to corrosion

### Aesthetically Suited

Investment cast and machined surfaces provide a quality, sanitary appearance for 'show place' applications

### High Speed Option

Enlarged air ports + internal shock absorption enables full travel in 0.1 second

### Rugged

1/8" Cylinder walls resist handling & 'dropped wrench' damage

### High Temperature

Operation up to 450°F (232°C) with optional bushings and Viton o-rings

### Low Pressure Options

Enlarged or multiple cylinders allow full torque output with 30 and 40 psi supply pressures

### Absolutely no Shaft Seal Leakage

Springs are on shaft side of piston; therefore shaft seals are not pressurized on SR models – unlike common R&P actuators that continually rely upon the shaft seals to retain the operating pressures

### Sanitary Applications

All stainless steel construction  
Electro-polished option  
Pressurized body to exclude contaminants

### Accurate Valve Closure

Outward piston travel permits closure position travel stop in end cap. Up to 5 Degree over travel

### Extended Life

No cantilever forces or piston side loads > low friction, less wear. Patented 'saddle' assembly eliminates sliding friction and wear. Successfully tested at full load to 1,000,000 cycles

### Low Maintenance

Permanently lubricated  
Low friction => long cycle life  
All wearable 'soft' parts easily replaceable  
Major parts re-usable  
SpringpaQ exchange program

### Safe Maintenance

Captured SpringpaQ prevents injury to maintenance personnel

### 3 Year Performance Warranty

If actuator fails to perform to expectations within 3 years from distributor ship date, QTRCO will rebuild or replace it. See warranty statement for details.

