



# Linear **Actuators**

Corrosion resistant pneumatic actuator  
that is unequalled in control and on/off applications

*type-***C**



Lowest Total Cost of Ownership

Easier to use and Maintain  
than any other actuator

Designed and engineered specifically  
for control valve applications



The Leader in Actuator Technology



## L SERIES type-C

### FULLY AUTOMATED LINEAR

#### FAIL UP, FAIL DOWN OR DOUBLE ACTING

Pressures to 10.3 bar (150 psig)

Output Thrust to 204,618 N (46,000 lbf) – **True Spring Return**  
Temperatures from -60°C to 260°C (-76°F to 500°F)

Stainless Steel Construction  
Double-Acting and Spring-Return Models

Strokes to 102 mm (4")

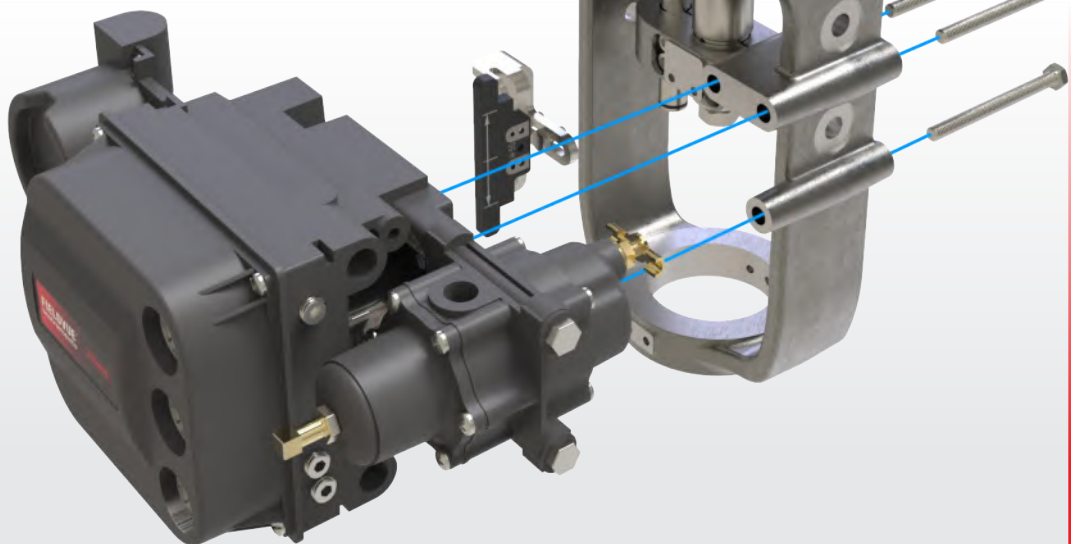
QTRCO L-Series actuator offers a long lasting, stainless steel or carbon steel/composite alternative to spring and diaphragm actuators. The L-Series is designed to seamlessly integrate with Fisher sliding stem control valves and accessories. The low friction design combined with proven valve and digital valve controller technology allows for superior performance to minimize variability of the process. Our actuators consistently demonstrate the ability to take on the most extreme applications and last for incredibly long periods of time. QTRCO customers report years of service with no failures and maintaining operations with no loss in production time.

### Superior Control Capability

- Minimal friction by design
- Spring Return or Double-Acting Available
- Exceptional linearity
- Excellent frequency response



A stainless steel or carbon steel/composite plug and play alternative to 657/667 actuators.



### Integral Instrument

The L-Series actuator features an integral instrument mounting allowing Fisher FIELDVUE DVC2000 and DVC6200 digital valve controllers to be bolted directly to the yoke. The actuator is designed to use standard DVC mounting kits and is backwards compatible to previous generation accessory mounting kits.

HIGH CYCLE LIFE, HIGH SPEED, HIGH RELIABILITY





## BUILT TO LAST

Due to our belief that actuators should not fail - all QTRCO actuators feature robust designs and premium materials

### MATERIALS OF CONSTRUCTION

Mechanism	CF8M Stainless Steel or Carbon Steel
Housing	CF8M Stainless Steel or Carbon Steel
Cylinders	316 Stainless Steel <i>Optional: Amalga Composite or Aluminum</i>
Pistons	CF8M Stainless Steel or Carbon Steel
Springs	Powder Coated Chrome-Silicon Steel, <i>Optional: Stainless Steel</i>
Seals	BUNA <i>Optional: Viton, Silicon</i>



**Stem position feedback**

SEAL REPLACEMENT  
IS DONE IN PLACE,  
ON-THE-VALVE

## IF NECESSARY...

After removing the air supply lines, the end cap and cylinder are readily removed from the actuator and the non-proprietary piston seal is then easily replaced. The stainless steel cylinder resists scratching but if it is damaged, it too is independently replaceable. In fact, with our spring return actuators, the cylinder can be turned end for end and reinstalled as the length of the cylinder provides for an entirely new sealing surface.



## Safety & Ease of Maintenance

Never Compromising Safety - Captured springs safely provide access for on-the-valve replacement of contaminant damaged piston seals.



## FISHER COMPATIBILITY

Fisher 667 Actuator Size	QTRCO Equivalent	Effective Piston Area  cm <sup>2</sup>	Yoke Boss Diameter	Stem Diameter  mm	Travel	Thrust Capabilities  N
30	04-F212	81	54	9.5	19	4,524
34	06-F212	183	54	9.5	29	10,129
40	06-F281	183	71	12.7	38	9,991
45	08-F281	325	71	12.7	38	18,447
46	10-F281	507	71	12.7	38	30,960
50	08-F356	325	90	19.1	51	18,091
60	10-F356	507	90	19.1	51	30,724
70	12-F356	730	90	19.1	76	41,720
76	10-F356	507	90	19.1	76	30,248
80	14-F500	994	127	25.4	102	59,873
87	12-F500	730	127	25.4	102	41,039
---	16-F500	1298	127	25.4	102	73,120
100	20-F500	2028	127	25.4	102	116,619
---	24-F500	2921	127	31.75	102	162,035

		Inch <sup>2</sup>		Inch		Lb
30	04-F212	13	2-1/8	3/8	0.75	1,017
34	06-F212	28	2-1/8	3/8	1.125	2,277
40	06-F281	28	2-13/16	1/2	1.5	2,246
45	08-F281	50	2-13/16	1/2	1.5	4,147
46	10-F281	79	2-13/16	1/2	1.5	6,960
50	08-F356	50	3-9/16	3/4	2	4,067
60	10-F356	79	3-9/16	3/4	2	6,907
70	12-F356	113	3-9/16	3/4	3	9,379
76	10-F356	79	3-9/16	3/4	3	6,800
80	14-F500	154	5	1	4	13,460
87	12-F500	113	5	1	4	9,226
---	16-F500	201	5	1	4	16,438
100	20-F500	314	5	1	4	26,217
---	24-F500	452	5	1-1/4	4	36,427

### Check Out These Resources

- Product Bulletin
- Instruction Manual
- Proven Results
- Sizing and Specification Tool

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