



Keeping the World Flowing
for Future Generations

K-TORK Range

High-performance quarter-turn / rotary
pneumatic actuators

Delivering true rotary motion without the inefficiencies of linear-to-rotary conversion, K-TORK actuators are engineered for simplicity, precision and reliability, providing a highly accurate solution for quarter-turn and rotary actuation.

With only one moving part, the K-TORK Range actuators provide a range of benefits:

Features and Benefits

- Compact, space-saving design ideal for membrane or packaged plants, filter galleries and vaults
- Designed for high cycle and precise modulating services
- Linear and constant torque output
- Torque output 4.6 to 18,300 Nm (36 to 155,000 lbf.in)
- Range of pneumatic, analogue and digital controls
- Fail-Close, Fail-Open or Last-Position upon power loss
- No high-voltage power or MCCs required
- Adjustable OPEN / CLOSE speed control
- 100% duty-cycle, immune to thermal overload
- Refined retrofit process to upgrade existing valves
- Durable polyester powder coat finish



Efficiency and Long Life

Unmatched service life is the result of the dual opposed lip seal design. The stainless steel expanders energise the lip seals to the housing for constant, leak free years of performance.

Modulating Accuracy

The direct drive design of the K-TORK actuator reduces the lost motion or hysteresis, resulting in highly accurate modulating specifications of 0.25% or better. Additionally, the dual-opposed lip seals are low friction.

Safety

The K-TORK spring tension safety band allows for the safe installation or removal of the spring from the actuator. The spring fail direction can be changed from CW to CCW using the same spring, providing flexibility and reducing inventory levels.

High-Cycle Design

The low friction polyurethane or high temperature seals in each actuator will provide years of trouble free operation. There are no pressure retaining o-ring seals in a K-TORK actuator as these are prone to leak, increase friction and lower service life.

Modular Design

A spring can be added to double-acting actuators to make them spring-return actuators, reducing stock requirements.

Spring-Return Reliability and Longevity

Spring is guaranteed for the life of the actuator.

Spring-Return Balanced Torque Output

Spring tension adjusted to match actuator air supply, providing balanced air / spring torque output.

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Compact / High Torque Output

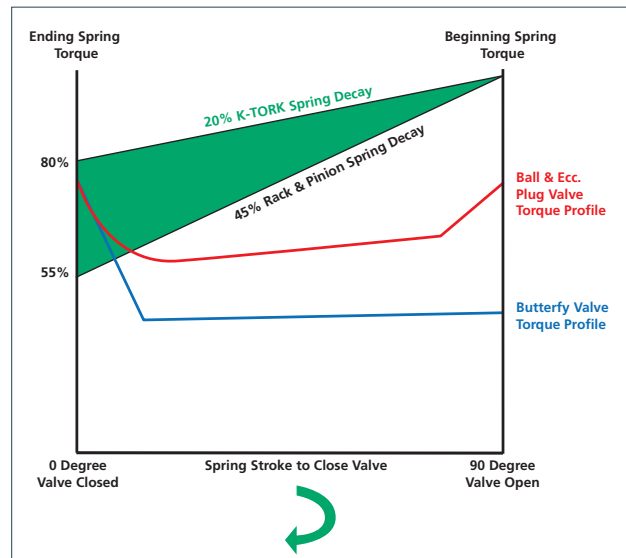
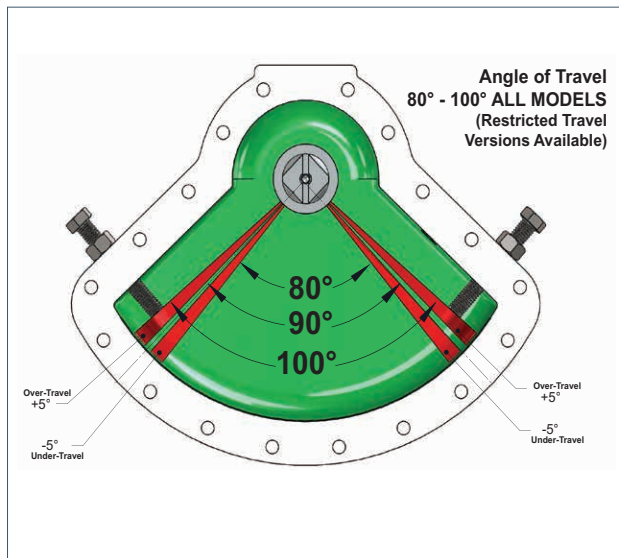
K-TORK actuators provide high torque output in a small size. The vane actuator design is compact and centres the actuator over the valve, eliminating stress on the valve body and stem.

Double-Acting Torque Output:

Model	Min. Torque		Max. Torque	
	lbf.in	Nm	lbf.in	Nm
KT-02	36	4.6	105	12
KT-03	84	10	240	25
KT-06	196	24	547	63
KT-10	384	47	1,620	176
KT-20	816	101	3,420	373
KT-30	1,860	231	7,488	818
KT-40	4,548	563	18,000	1,966
KT-50	10,596	1,308	40,500	4,424
KT-60	22,200	2,750	90,000	9,832
KT-70	47,500	5,900	155,000	18,300

Spring-Return Torque Output:

Model	Air & Spring Torque	Min. Torque		Max. Torque	
		lbf.in	Nm	lbf.in	Nm
KT-03	Start	68	8	94	11
	End	53	6	73	8
KT-06	Start	135	15	185	21
	End	105	12	144	16
KT-10	Start	320	36	450	50
	End	255	29	410	46
KT-20	Start	690	78	920	104
	End	510	57	800	90
KT-30	Start	1,610	181	2,100	237
	End	1,250	141	1,790	202
KT-40	Start	3,563	403	4,446	502
	End	2,993	338	3,762	425



For detailed K-TORK Range information refer to PUB097-001.

Contact us now
mail@rotork.com
www.rotork.com

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PUB097-013-00
 Issue 05/26