ADVANCED ACTUATORS

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THE SPECIALISTS IN THE DESIGN & MANUFACTURE OF PRECISION VALVE CONTROL SOLUTIONS & INSTRUMENTATION

HYLINE®-R

HIGH-TORQUE PRECISION. BUILT FOR HARSH ENVIRONMENTS

PNEUMATIC, QUARTER-TURN SCOTCH YOKE ACTUATORS

SYSTEM FEATURES

Our rugged Scotch yoke actuators deliver powerful, accurate torque and rotary control in offshore, chemical and marine environments. Available in pneumatic double-acting and pneumatic spring-return configurations, they provide dependable operation, high cycle life and modular construction for demanding industrial applications.

COMPACT DESIGN

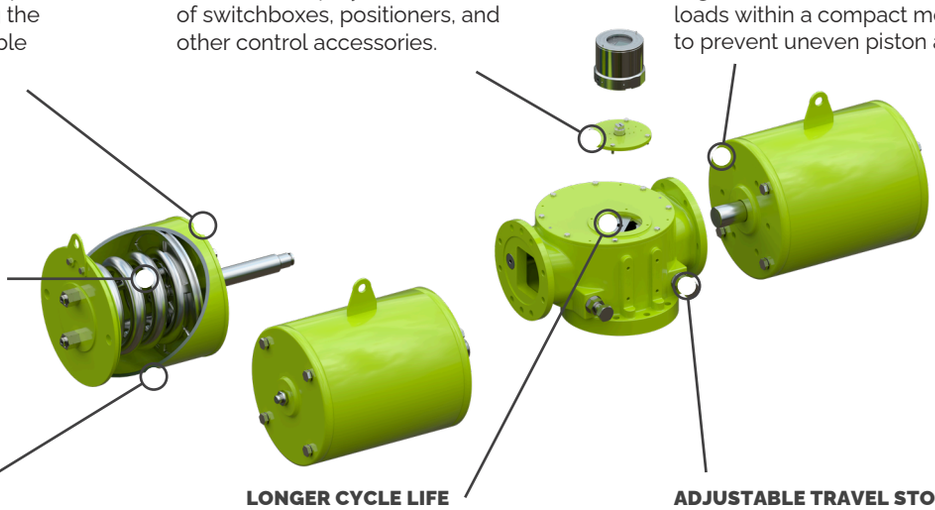
The compact spring module minimises the actuator envelope and weight while maintaining the torque required for dependable fail-safe operation.

NAMUR MOUNTING

Standardised NAMUR mounting interfaces simplify the installation of switchboxes, positioners, and other control accessories.

INTERNAL TIE RODS

Internal tie rods maintain cylinder alignment and withstand operating loads within a compact module, helping to prevent uneven piston and seal wear.



SEALED SPRING

Springs are fully contained within a sealed cartridge, making installation, removal and maintenance safer.

INGRESS PROTECTION

O-ring seals provide IP67 protection against dust and water ingress, safeguarding internal components in exposed and demanding environments.

LONGER CYCLE LIFE

A low-friction slider block distributes contact loads across the Scotch Yoke mechanism, reducing localised stress and wear over repeated cycles.

ADJUSTABLE TRAVEL STOPS

Externally accessible travel stops for precise adjustment of open/closed positions, supporting reliable shutoff and reducing unnecessary valve seat loading.

KEY FEATURES

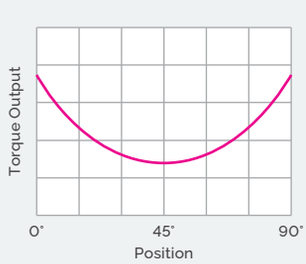
- Compact modular design
- High torque for quarter-turn valves
- Double-acting or Spring-Return
- Rugged build for long service life
- ISO/NAMUR mounting interfaces
- Built for demanding environments

APPLICATIONS

- Oil & Gas
- Chemical Processing
- Water & Wastewater
- Power Generation

BALANCED TORQUE PROFILE

The symmetrical Scotch yoke produces a balanced torque profile, delivering peak output at both ends of the stroke to meet valve breakaway and reseating torque requirements.



IMAGES ARE REPRESENTATIVE ONLY. FINAL MODEL NUMBER, CERTIFICATION, AND CONFIGURATION TO BE CONFIRMED AT ORDER PLACEMENT.

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CONFIGURATIONS

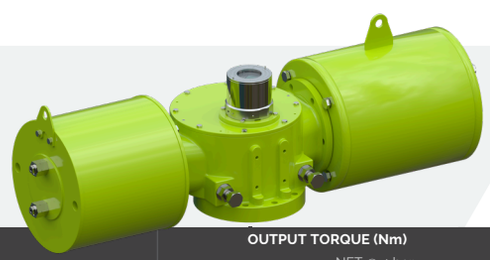


PNEUMATIC

1 DOUBLE ACTING

- Air operated in both directions
- Ideal where a constant supply of compressed air is available
- Higher operating torque throughout the stroke

MODEL	TYPE	ACTION	SUPPLY	TORQUE (Nm) @ 4 bar 0°	45°	90°
E-R-T1-S-201DA	Double-Acting	**Fail-Fixed**	Air	1300	700	1300
E-R-T1-S-251DA	Double-Acting	**Fail-Fixed**	Air	2050	1100	2050
E-R-T2-S-301DA	Double-Acting	**Fail-Fixed**	Air	3750	2050	3750
E-R-T4-S-401DA	Double-Acting	**Fail-Fixed**	Air	9350	5050	9350
E-R-T4-S-451DA	Double-Acting	**Fail-Fixed**	Air	11900	6400	11900
E-R-T5-S-451DA	Double-Acting	**Fail-Fixed**	Air	16350	8800	16350



PNEUMATIC

2 SPRING RETURN *(FAIL SAFE)*

- Air operated with spring return
- Fail Close or Fail Open
- Automatic return to safe position on air failure

NOTE: SPRING TORQUE SHOWN AT THE FAIL POSITION. NET TORQUE AT 0°, 45° AND 90° WITH A 4 BAR AIR SUPPLY, LESS THE OPPOSING SPRING TORQUE.

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MODEL	TYPE	FAIL POSITION	OUTPUT TORQUE (Nm) NET @ 4 bar SPRING	0°	45°	90°
E-R-T1-S-201SRC4	Spring-Return	**Closed**	500	822	358	501
E-R-T1-S-201SRO4	Spring-Return	***Open***	500	501	358	822
E-R-T1-S-251SRC4	Spring-Return	**Closed**	626	1463	682	1061
E-R-T1-S-251SRO4	Spring-Return	***Open***	626	1061	682	1463
E-R-T2-S-301SRC5	Spring-Return	**Closed**	1485	2304	989	1351
E-R-T2-S-301SRO5	Spring-Return	***Open***	1485	1351	989	2304
E-R-T4-S-401SRC4	Spring-Return	**Closed**	3546	3193	1102	911
E-R-T4-S-401SRO4	Spring-Return	***Open***	3546	911	1102	3193
E-R-T4-S-451SRC4	Spring-Return	**Closed**	4432	7480	3271	4627
E-R-T4-S-451SRO4	Spring-Return	***Open***	4432	4627	3271	7480
E-R-T5-S-451SRC4	Spring-Return	**Closed**	6192	10178	4422	6191
E-R-T5-S-451SRO4	Spring-Return	***Open***	6192	6191	4422	10178