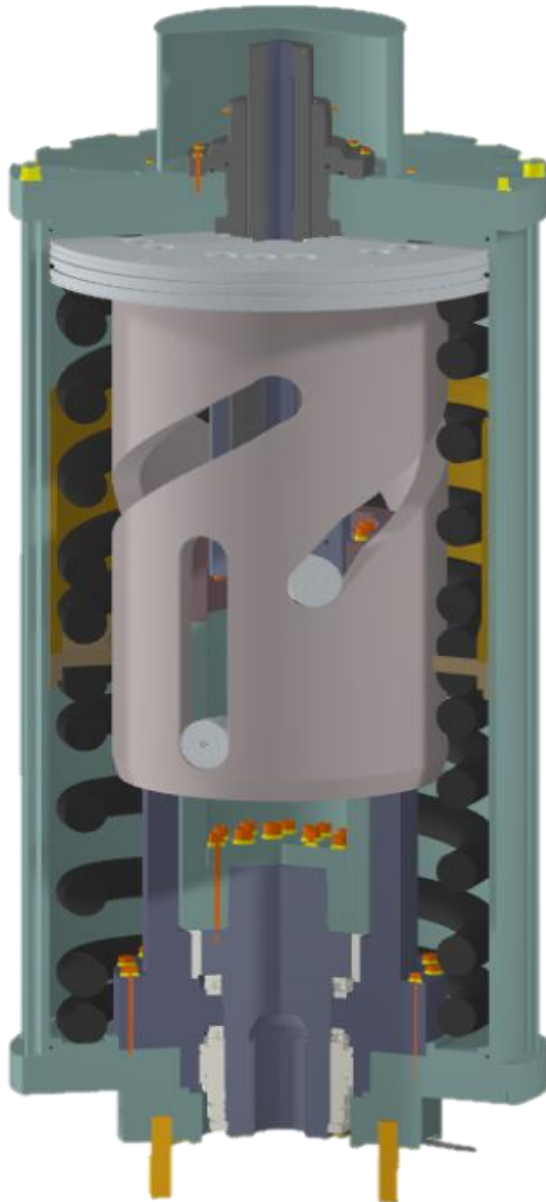


Axial Rotary Actuator - ARA

Compact actuator, space saving



ARA: Axial Rotary Actuator



IMI STI's vast experience with actuator systems allowed the team to develop an axial rotary actuator (ARA) that follows the different torque curve on various valve type (butterfly, ball, male ...), achieving the required safety factor and minimizing the overall space requirements.

Our ARA actuator is the solution for tight space constraints, especially in facilities like FPSO, offshore platforms, or skids, where there is a need to save every inch.

The ARA actuator can allow for reduced skid size vs. conventional solutions:

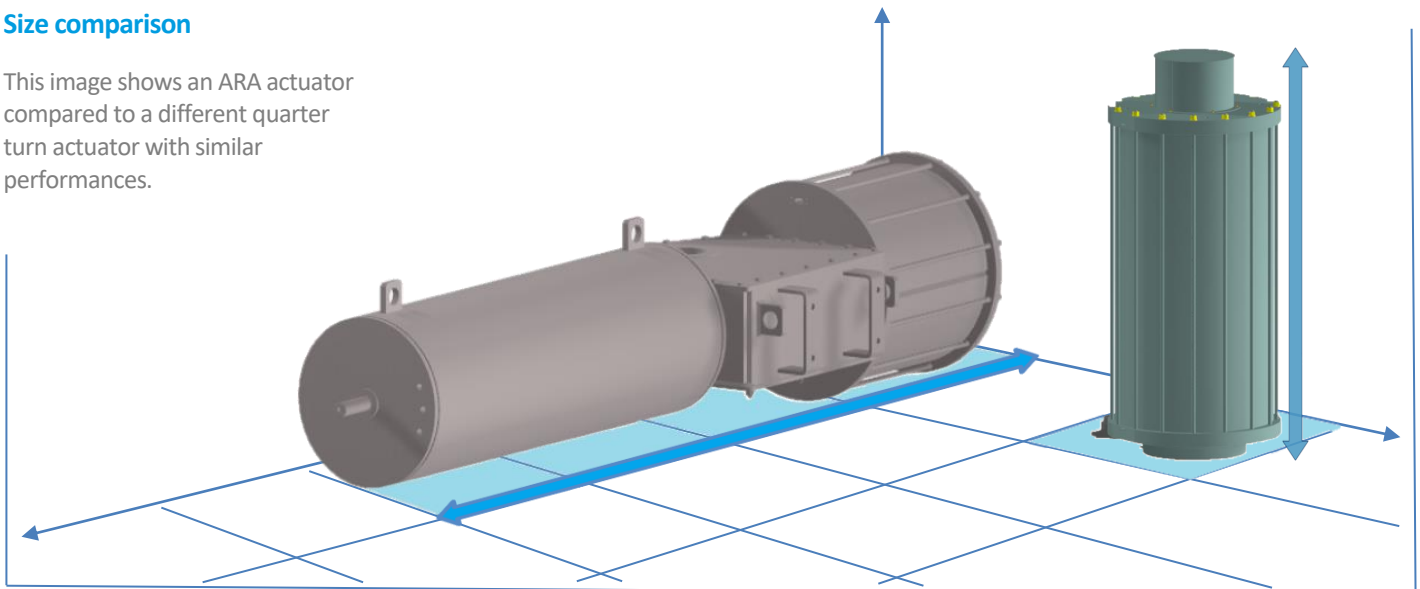
- Save space with reduced footprint
- Save weight
- Save money
- Simpler installation

The benefits of our ARA actuator include:

- Fully customized customer solution
- Same performance as conventional solution
- Piston linear movement by air, oil or spring
- Modulating and on/off versions available

Size comparison

This image shows an ARA actuator compared to a different quarter turn actuator with similar performances.



Product specifications and dimensions

Actuator sizes

Sizes available on request

Regulatory requirements

ATEX, PED, CUTR

Materials

Carbon Steel, Stainless Steel

Actuator Type

Pneumatic, hydraulic

SIL classification

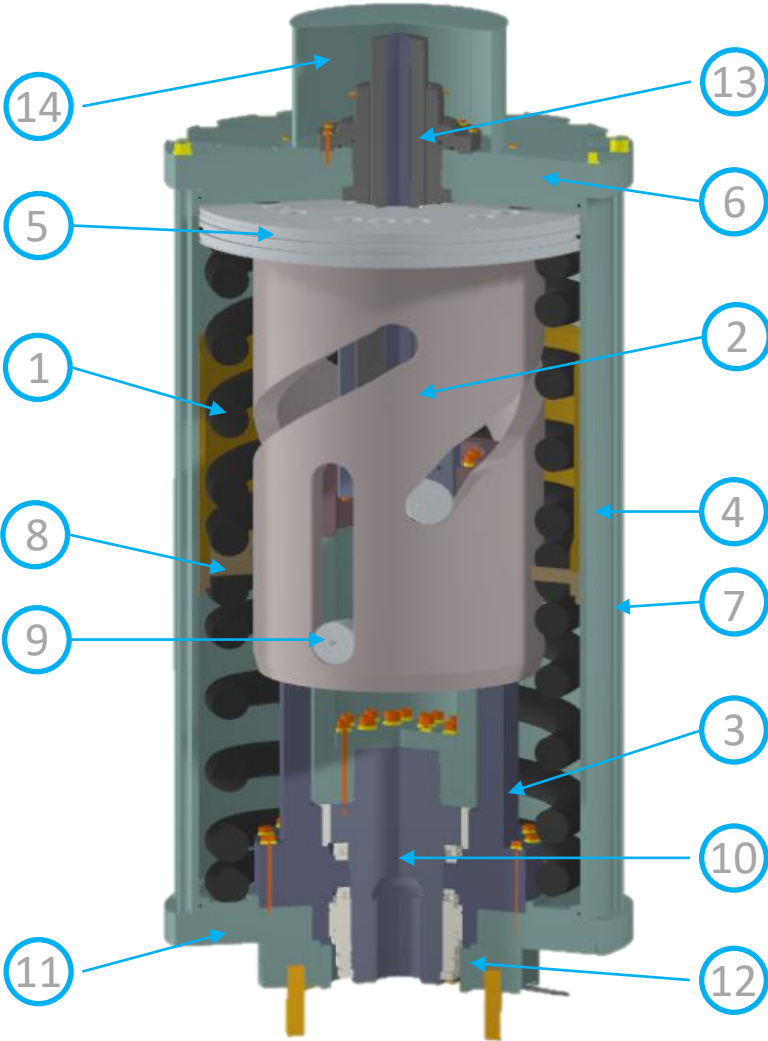
SIL 3 achievable

Design temperature

-20°C / +70°C standard
-60°C / +100°C achievable

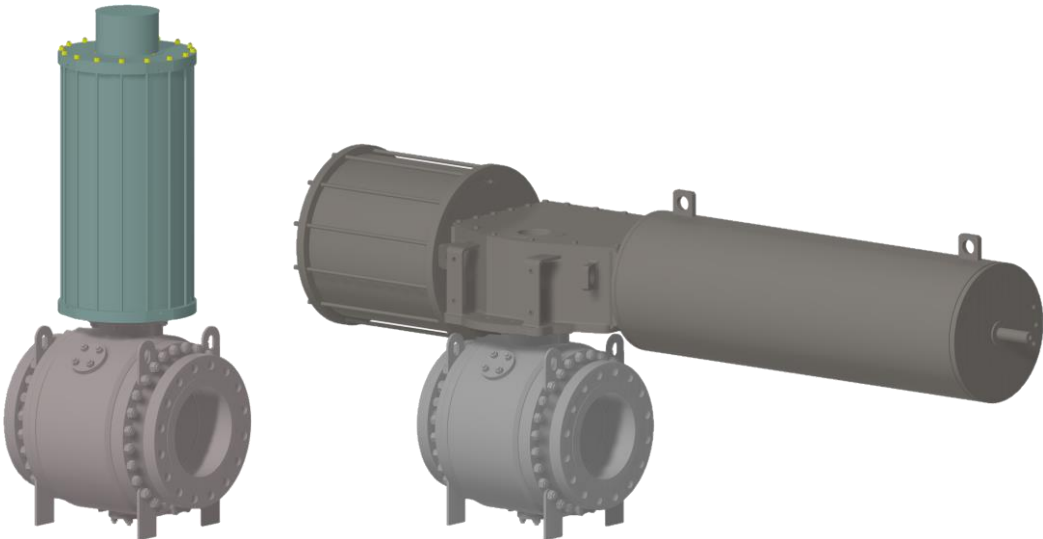
Design features

- 1. Spring
- 2. Cam
- 3. Anti Rotation
- 4. Cylinder
- 5. Piston
- 6. Upper plate
- 7. Tie rod
- 8. Spring plate
- 9. Roller
- 10. Shaft Assembly
- 11. Lower Plate
- 12. Coupling Kit
- 13. Travel Stop Assembly (Static)
- 14. Travel Stop Cover



Application examples

- FPSO
- Offshore Platform
- Refinery
- Chemical Plant
- Oil & Gas
- LNG



ARA actuator + valve

Scotch yoke actuator + valve

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