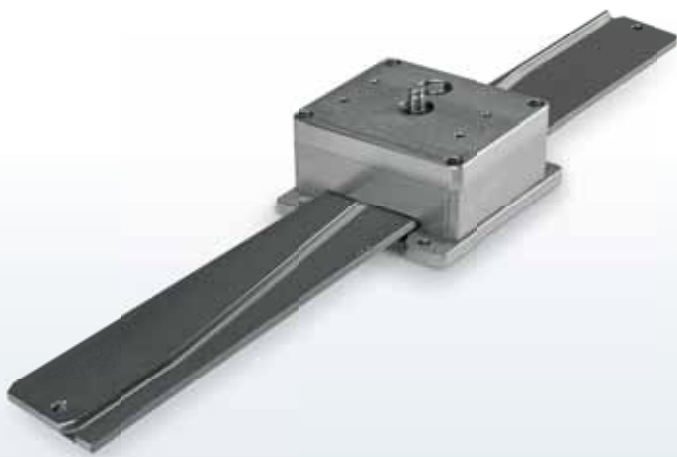




# MC | Motion converter



## Product description

The Motion Converter (model **MC**) is suitable for easy installation of rotary positioners on linear actuators. The device is available with adjustable and changeable coupling kit to connect different positioners or accessories interfaces. The coupling kit is designed to avoid radial forces on the mounted accessories like positioner, position transmitter or limit switches mounted into a box. The conversion from linear actuator and valve stem movement to rotary movement is made with a lever mechanism designed to minimize the linearity error in a simple, robust construction into a small box. Motion converter is a device designed to convert linear movement into rotary motion,

whilst cancelling the imprecision effect of a traditional system lever/pin arrangement; and when installed on valves with small stroke lengths, it will improve the performance that would be lost due to the small rotation of the traditional feedback arrangement caused by the short linear stroke of the actuator/valve stem.

**This product is patented by STI.**

## Advantages

- **Safety**  
No exposed long/arm/lever moving during actuator stroke.
- **Dimension**  
Small dimension not affected by the length of the actuator stroke.
- Very reduced linearity error when compared with the best lever/arm/pin system (50% less than best system available in the market)
- Robust construction not affected by dust, ice, temperature and other contaminants
- Self cleaning system
- No noise during operating
- Maintenance free
- Adaptable at every stroke in the field
- 90° exit angle
- Backlash recovery system

## Key features

### Suitable for

- Standard, Offshore, Sandstorm, copper free ambient condition
- Single and double acting actuators
- Low and high ambient temperature
- Suitable for linear actuator

## Technical specifications



### Housing materials

- Anodized aluminum
- Stainless steel 316

### Output angle

- 90°

### Operating temperature\*

- - 40°C / + 120°C

### Linearity error

- 1,1% for stroke up to 90 → 400



### Minimum stroke cam std

- > 70 mm

### Repeatability

- +/- 0,2%

### Weight

- Aluminum = 1,2 kg
- Stainless steel 316 = 2,7 kg

(\*) Lower temperature available on request.

## Dimensional drawing

