

# MC: Motion Converter

The Motion Converter (model MC) is suitable for the easy installation of rotary positioners on linear actuators. The device is available with an adjustable and changeable coupling kit to connect with different positioners or accessories. The coupling kit is designed to avoid radial forces on the mounted accessories (such as positioners, position transmitters 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 in a small box. The motion converter removes the imprecise effect of a traditional system lever/pin arrangement. In a traditional feedback arrangement on valves with small stroke lengths, performance is lost due to the short linear stroke of the actuator/valve stem. This problem is removed when the MC device is used.

*Minimal operator effort*



Stainless steel 316 manifold mounting

## Key features

- > Suitable for standard, offshore, sandstorm and copper free ambient conditions
- > Low and high ambient temperature
- > Single and double acting actuators
- > Suitable for linear actuators

## Benefits

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



Aluminium manifold mounting

## Technical specifications

### Housing materials

Anodised aluminium  
Stainless steel 316

### Operating temperature\*

-40°C to 120°C (-40°F to 248°F)

### Minimum stroke cam std

>70mm

### Pilot signal connection

1/4" NPT

### Output angle

90°

### Linearity error

1.1% for stroke up to 90 -> 400

### Weight

Aluminium = 1.2kg  
Stainless steel 316 = 2.7kg

\* Lower or higher temperature available on request

## Dimensional drawing

