

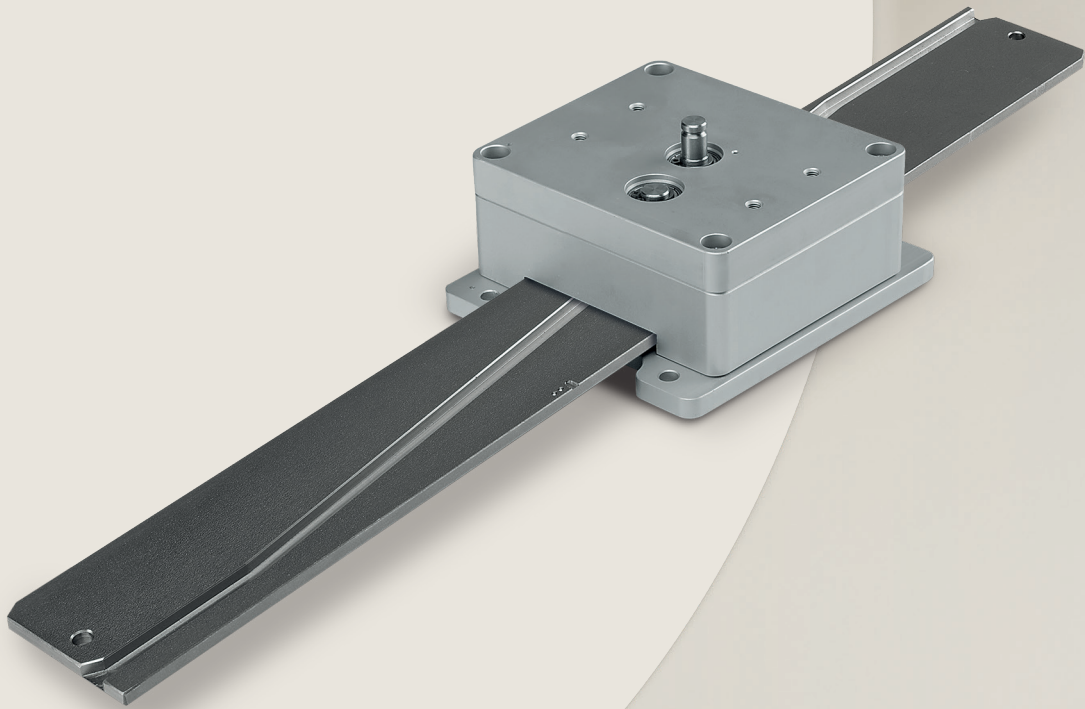


# Process Automation

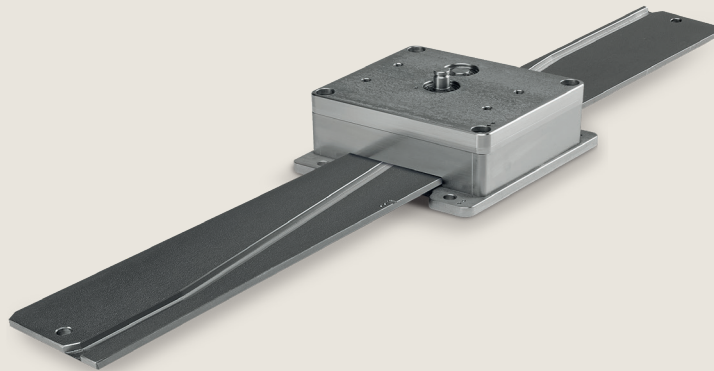
IMI STI

MC

Motion Converter



Breakthrough  
engineering for  
a better world



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.

## Product features

Suitable for standard, offshore, sandstorm and copper free ambient conditions.

Low and high ambient temperature.

Suitable for linear actuators.

Single and double acting actuators.

## Technical specifications

Housing materials  
Anodised aluminium  
Stainless steel 316

Pilot signal connection  
1/4" NPT

Weight  
Aluminium = 1.2kg  
Stainless steel 316 = 2.7kg

Operating temperature\*  
-40°C to 120°C

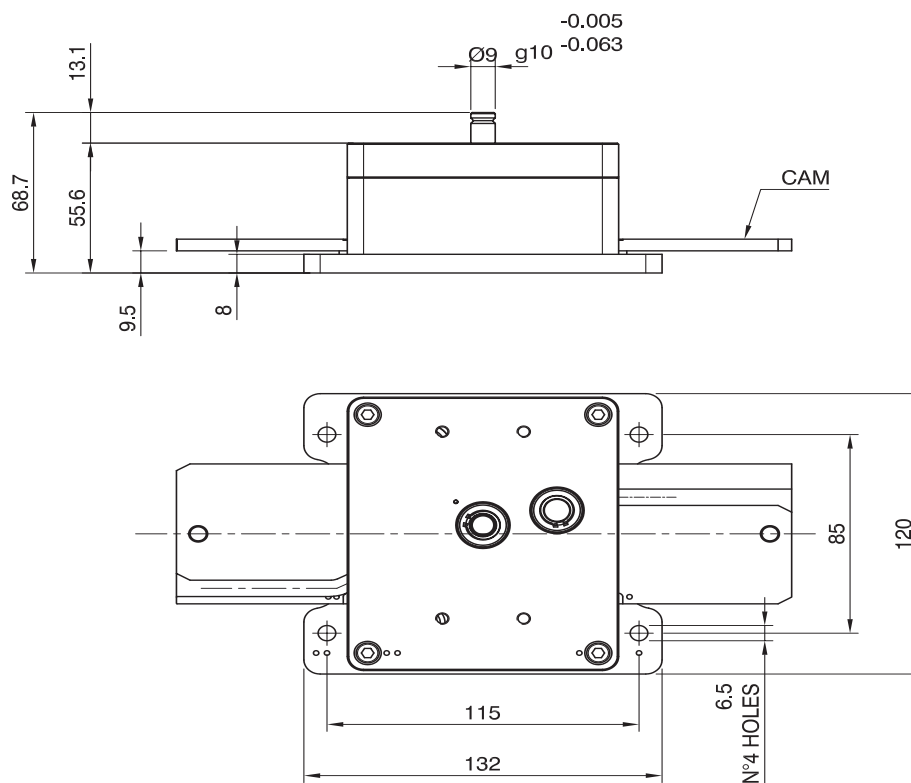
Output angle  
90°

\* Lower or higher temperature available on request

Minimum stroke cam std  
>70mm

Linearity error  
1.1% for stroke up to 90 -> 400

## Dimensional drawing



## Benefits

No exposed long/arm/lever moving during actuator stroke.

Small dimensions are not affected by the length of the actuator stroke.

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).

Robust construction not affected by dust, ice, temperature and other contaminants.

Self cleaning system.

No noise during operation.

Maintenance free.

Adaptable at every stroke in the field.

90° exit angle.

Backlash recovery system.

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