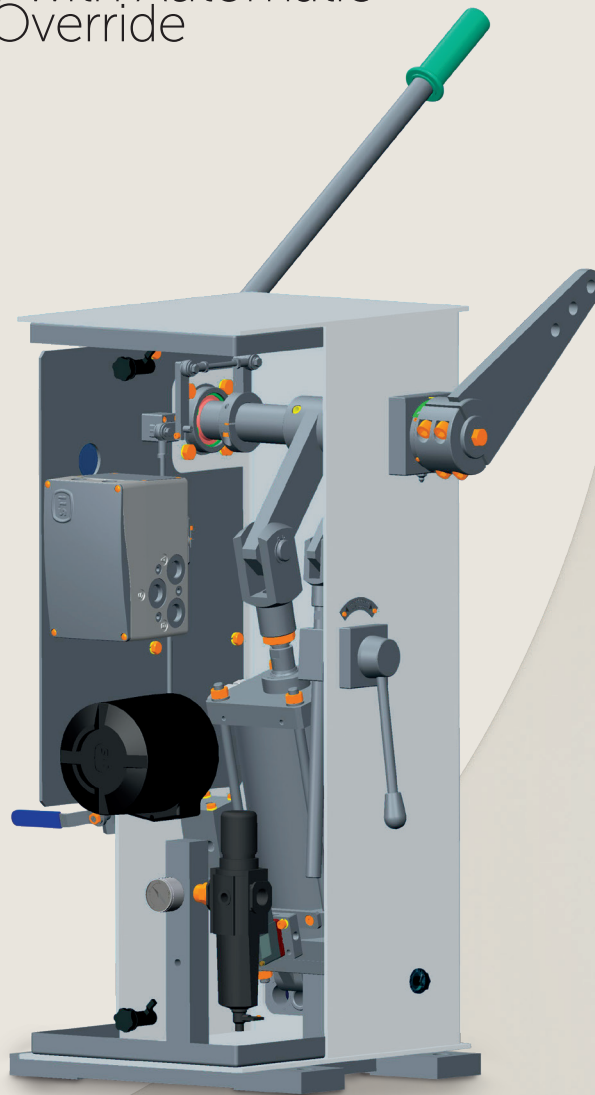


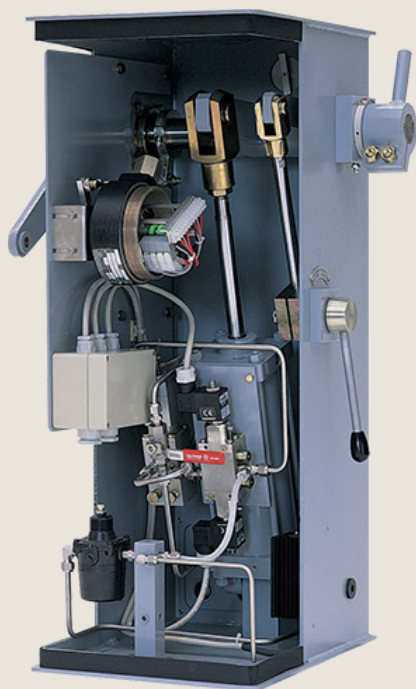
# Process Automation

IMI STI

CML

Enclosed Actuator with Automatic Engaged Manual Override





# CML

## Enclosed Actuator with Automatic Engaged Manual Override

The CML series pneumatic actuator system is composed of an actuator and a manual override integrated into a steel housing which is portable. This rugged construction guarantees continuous operation in harsh environments, for example in power stations, steel industries, petrochemical plants or desert areas etc. This actuator provides small to medium torque (up to 100 daNm) for angular control of dampers, butterfly valves, speed variators, radial vanes etc. Manual operation is by a clutchable lever, equipped with a mechanical system. This system allows the movement of the actuator through an external lever and locks it in the required position.

## Product features

Actuator with manual override and lock.  
 Portable within steel housing.  
 Housing carbon steel  
 Lever shaft Alloy steel 38 NiCrMo4 heat, treated

Manual override  
 Manual by-pass function for manual override  
 Brass fittings and copper tubings (stainless steel available as option)

Front easily removable for access / maintenance.  
 External lever Carbon steel

## Technical specifications

Actuator Type	Size stroke mm	Torque* available (daNm)			
		Min		Max	
		70°	90°	70°	90°
CML-1	63/125	12	8	14	12
	100/100	26	18	32	26
CML-2	100/200	52	36	63	51
	125/200	82	57	100	81

\* Torque referred at 0,50 Mpa supply pressure and 70° or 90° operating angle of final element (damper).

\*\* Max operating air supply pressure 0,44 Mpa.



The air-lock device is mounted on pneumatic actuators when they need to be isolated from control devices (positioners, electro-pneumatic distributors etc) in the event air pressure falls below the pre-determined operating safety point.

## Actuator with piston built-in permanent lubrication system

The CML utilises an IMI STI linear actuator from the SC series of actuators with a built-in permanent lubrication system, which has been patented by IMI STI. This ensures an extremely smooth valve operation even if dry instrument air is used. Thanks to this lubrication system, which is common to all IMI STI actuators, no maintenance of the moving parts is required, even after many years of continuous service.

The patented lubrication system consists mainly of a grease lubricant filled annular cavity placed inside the cylinder piston, between a sealing ring and a sliding ring to avoid direct contact between the metal surfaces of the piston and the cylinder, even in case of lateral forces acting on the actuator stem; the annular cavity is filled with grease which, during the piston movement, keeps the metal parts lubricated allowing very smooth sliding and a long seal life.



Linear SC actuators are suitable for service in harsh. environments such as desert areas.

Up to 10 daNm (higher values on requests)

Lever has 70deg or 90deg operating angle.

Typical operating pressure 7barg up to 10 barg.

Air supply  
 Dry instrument air according to ISO 8573-1

Operating pressure  
 Pneumatic version from 7 barg up to 10 barg (special version available on request)

Standard operating temperature  
 -20°C to 70°C (lower or higher temperature on request)

Available with a wide range of positioners, in particular we suggest SHP positioners (see SHP brochure for more information)

Working lever operating angle  
 - 63/125 and 100/100 90°  
 - 100/200 and 125/200 70°

## Benefits

Ideal for use in harsh environments maintaining excellent performance.

No competitors have such a wide range of products.

Manual override built-in as standard.

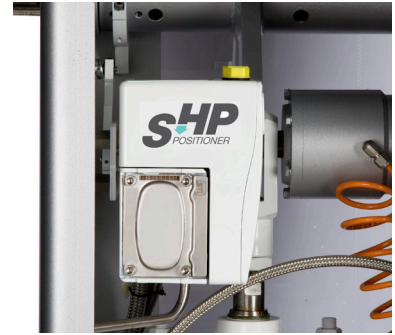
Easy installation of a wide range of accessories on a separate internal panel.

Easy maintenance.

Designed for a long operating life.

Internal linear (SC) actuator with built-in permanent lubrication system (see SC brochure for more information).

Balancing Security Sensor device (BSS) to switches automatically from manual function to modulating with signal (after request to come in service) only when the signal matches position where actuator is mechanically locked from manual override. (BSS is available as an option).



SHP is a smart positioner and it has a high-capacity and high-precision digital-pneumatic valve controller that replaces a conventional positioner.

# Process Automation

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