

E085 SERIES

SUB-MINIATURE HYDRAULIC ACTUATORS

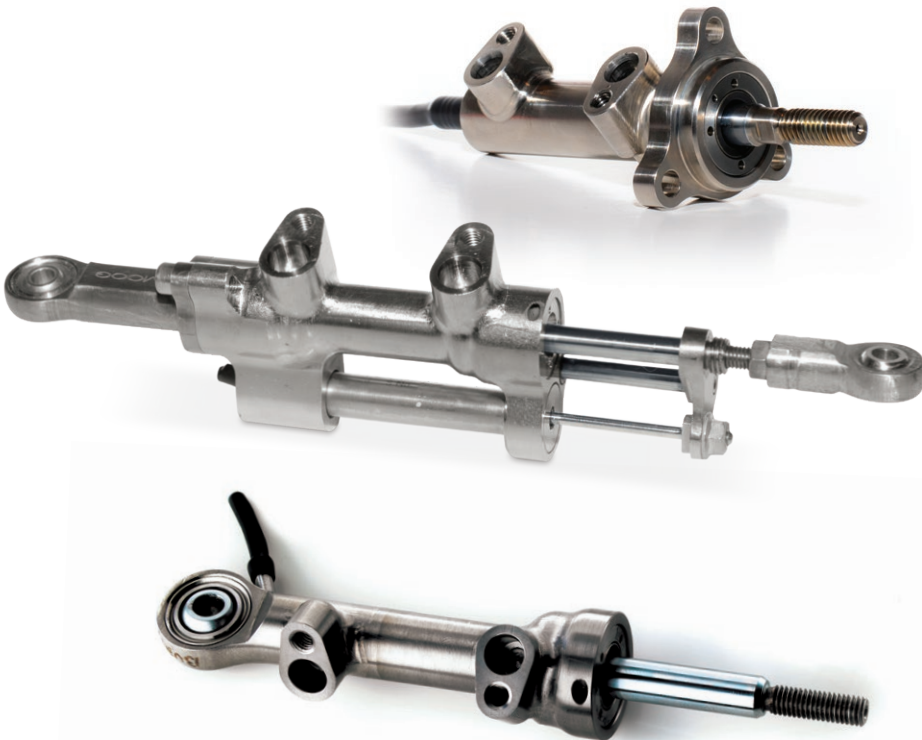
A range of compact Electro-Hydraulic actuators for use in high vibration and elevated temperature environments.



Moog's range of sub-miniature actuators were originally developed for use in motorsport control applications. Key elements of the generic design were the compact envelope, low mass and the ability to survive high-vibration and elevated temperature environments. These features have proved invaluable in subsequent applications in other sectors as diverse as Robotics, Oil & Gas, Aerospace Test and Materials Handling.

Generally these units are custom designed and optimised for each application and can be configured with a variety of mounting arrangements. Another key option is the incorporation of an integral EDS (Eddy Current Sensor) or external LVDT sensor providing position feedback if required. The smallest units produced to date have a 25mm stroke, 9mm piston and 6mm piston rod and have a mass of just 65g. Please contact Moog to discuss your specific requirements.

For low quantity applications Moog do have a small range of existing designs that can be supplied in low quantities. Some examples are shown below:



OPTIONAL FEATURES

- Low friction seals for servo control applications
- High temperature spherical bearings.
- Integral contactless EDS sensor
- Space saving 'rotatable' push-in fittings
- Conditioning electronics available for both EDS and LVDT sensors

TYPICAL APPLICATIONS

- Autonomous Robotics
- Oil & Gas – downhole and sub-sea
- Control of turbocharger ancillaries
- Motorsport throttle control
- Wind-tunnel model positioning

CONDITIONING ELECTRONICS E127-115C FOR STANDARD ACTUATORS

The E127-115C conditioning electronics are designed specifically for use with Moog E085-xxxC actuators which incorporate Eddy Current Transducers.

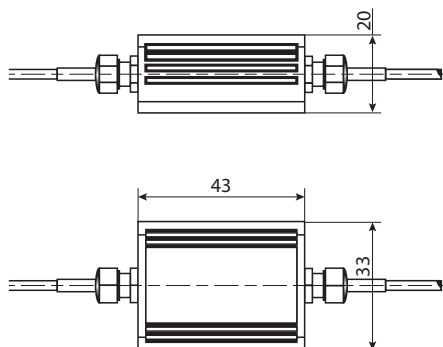
These electronics are housed in an aluminium enclosure and supplied separately from the hydraulic actuator.

NOTE The Moog E127-115C Conditioning Electronics can be used with any Moog E085 Actuator with a 'C' Suffix.

See Installation Drawing CB63008 for further information.



ELECTRONICS IN ENCLOSURE



Technical Data - E127-115	
Sensor Input	9-30 V DC
Output	0.5 to 4.5 V DC
Standard Working Stroke	25 mm (0.98 in)
Maximum Continuous Operating Temperature	150 °C (302 °F)

FIA APPROVED ELECTRONICS

A special version of this conditioning electronics that is approved for international Motorsport is available in both single and dual channel configurations.

Please contact Moog for further details.

Moog has offices around the world. For further information, or the office nearest you, contact us online.

e-mail: info.uk@moog.com

www.moog.com/motorsport

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This technical data is based on current available information and is subject to change at anytime by Moog. Specifications for specific systems or applications may vary.

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