

> OBJECTIVES

BLMM (Bistable Linear Moving Magnet) actuators are dedicated to applications requiring compact actuators with high holding force without electrical supply. They require less electrical power than non polarized electromagnets.

> PRESENTATION

BLMM actuators are designed to be capable to:

- hold two stable equilibrium positions without electrical supply
- provide high holding force density without electrical supply
- provide high acceleration for fast commuting
- be robust (simple parts, robust interface, adapted guiding)

BLMM actuators can also be tuned, by design or by command, to provide a particular profile of force along the stroke.

> ADVANTAGES

- High holding force density without electrical supply
- High acceleration
- Low energy consumption compared to non polarized electromagnet
- Easy integration
- Easy to manufacture

> VERSATILITY

BLMM actuators have been used in the following ranges of:

- stroke: 0.5mm to 6.5 mm
- holding force: 0.08N to 150N

> APPLICATIONS

- Valve actuation
- Locking and unlocking applications
- Mechanism activation and desactivation

> ACTUATORS PERFORMANCES

	BLMM -1	CUSTOM-1	CUSTOM -2
Stroke (mm)	0.5 mm	6.5 mm	6.0 mm
Holding force (N)	0.08 N	70 N	150 N
Mobile mass	0.076 g	42 g	121 g
Size (when facing the motion axis)	Diameter 5mm Depth 7.5mm	Diameter 57mm Depth 75mm	Diameter 50mm Depth 92mm
Comment	Standard product	Space and fluidic application	Automotive application

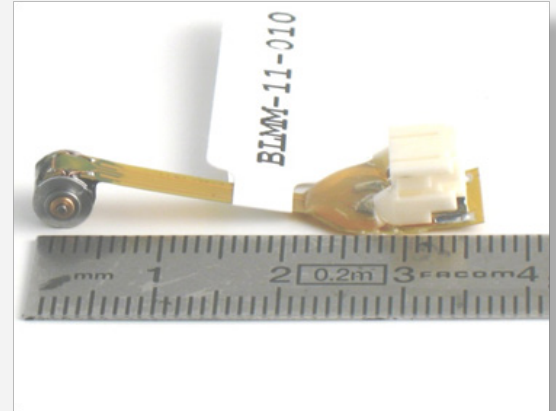


Fig1: BLMM-1

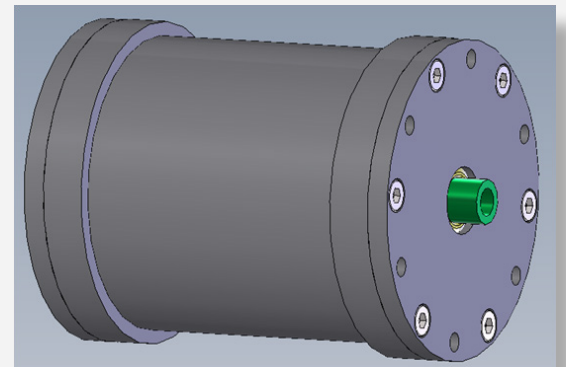


Fig2: CUSTOM-1

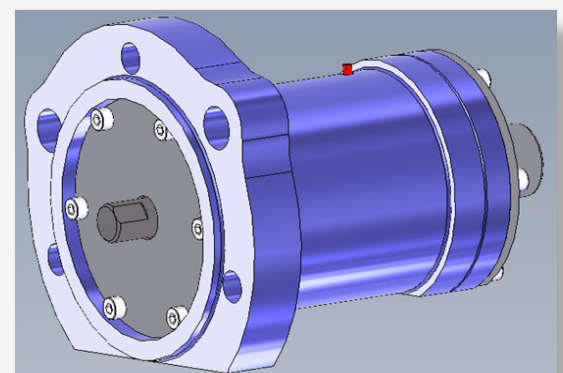


Fig3: CUSTOM-2

For more information, please contact:

CEDRAT TECHNOLOGIES
 59 Chemin du Vieux Chêne - Inovallée
 38246 Meylan Cedex - France
actuator@cedrat-tec.com
www.cedrat-technologies.com
 Phone: +33 (0)4 56 58 04 00 - Fax: +33 (0)4 56 58 04 01