

## MBDA Cleanroom Series - Mini Bit Cylinders



For the most compact square body actuator available at only 4.5 mm bore, these miniature actuators help OEM customers do more in less space.

- Class 10 / ISO 4 Equivalent Cleanroom Models
- Plain or Male Thread Piston Rod
- RoHS Compliance
- Short Mounting Pitch
- ZE Solid State Sensor Switch Optional

Improve the performance and reduce the size of your next generation machine. Koganei sets the standard for supplying innovative high-quality solutions with unmatched reliability. Optimized designs, with a wide variety of styles and sizes, increase speed to market as well as provide solutions for most applications. Expedite deliveries with product stocked in the USA.

KOGANEI is committed to your success from concept, to initial design, to final delivery and beyond.

### Operations

#### Double Acting Clean System

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Model	Operation	Bore mm	Standard Strokes mm [in]	Max Stroke mm [in]	Port Size metric [imperial]	Max Force - Push N [lbf]	Max Force - Pull N [lbf]	Speed Range mm/s [in/s]	Pressure Range MPa [psi]	Temperature Range °C [°F]
CS-MBDA	Double Acting Clean System	4.5	4 - 10 [upon request]	10 [0.4]	M3 x 0.5 [upon request]	11.1 [2.5]	9 [2]	50 - 500 [2.0 - 19.7]	0.15 - 0.7 [21.8 - 101.5]	0 - 60 [32 - 140]
CS-MBDA	Double Acting Clean System	6	4 - 15 [upon request]	15 [0.6]	M3 x 0.5 [upon request]	19.7 [4.4]	14.8 [3.3]	50 - 500 [2.0 - 19.7]	0.15 - 0.7 [21.8 - 101.5]	0 - 60 [32 - 140]
CS-MBDA	Double Acting Clean System	8	4 - 20 [upon request]	20 [0.8]	M3 x 0.5 [upon request]	35.2 [7.9]	30.2 [6.8]	50 - 500 [2.0 - 19.7]	0.15 - 0.7 [21.8 - 101.5]	0 - 60 [32 - 140]
CS-MBDA	Double Acting Clean System	10	4 - 20 [upon request]	20 [0.8]	M3 x 0.5 [upon request]	55 [12.4]	46.1 [10.4]	50 - 500 [2.0 - 19.7]	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]