

## MBDA 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 Cleanroom Models
- Can Operate without Lubrication
- ZE Solid State Sensor Switch Optional
- Short Mounting Pitch
- Plain or Male Thread Piston Rod
- RoHS Compliance

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

Double Acting Clean System

Single Acting Push

## MBDA Series Mini Bit Cylinders

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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]
MBDA	Double Acting	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]
MBDA	Double Acting	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]
MBDA	Double Acting	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]
MBDA	Double Acting	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]
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]

Focused on providing industry leading pneumatic, fluid handling, and electrical automation components and assemblies for the OEM market | Think KOGANEI

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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	8	4 - 20 [upon request]	20 [0.8]	M3 x 0.5 [upon request]	35.2 [7.9]	30.2 [6.8]	50 - 500 [20 - 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 [20 - 19.7]	0.1 - 0.7 [14.5 - 101.5]	0 - 60 [32 - 140]
MBSA	Single Acting Push	4.5	4 - 8 [upon request]	8 [0.3]	M3 x 0.5 [upon request]	8.2 [1.8]	2.95 [0.7]	50 - 500 [20 - 19.7]	0.3 - 0.7 [43.5 - 101.5]	0 - 60 [32 - 140]
MBSA	Single Acting Push	6	4 - 8 [upon request]	8 [0.3]	M3 x 0.5 [upon request]	16.3 [3.7]	3.43 [0.8]	50 - 500 [20 - 19.7]	0.3 - 0.7 [43.5 - 101.5]	0 - 60 [32 - 140]
MBSA	Single Acting Push	8	4 - 10 [upon request]	10 [0.4]	M3 x 0.5 [upon request]	31 [7]	5.13 [1.2]	50 - 500 [20 - 19.7]	0.2 - 0.7 [29.0 - 101.5]	0 - 60 [32 - 140]
MBSA	Single Acting Push	10	4 - 10 [upon request]	10 [0.4]	M3 x 0.5 [upon request]	47.3 [10.6]	7.74 [1.7]	50 - 500 [20 - 19.7]	0.2 - 0.7 [29.0 - 101.5]	0 - 60 [32 - 140]