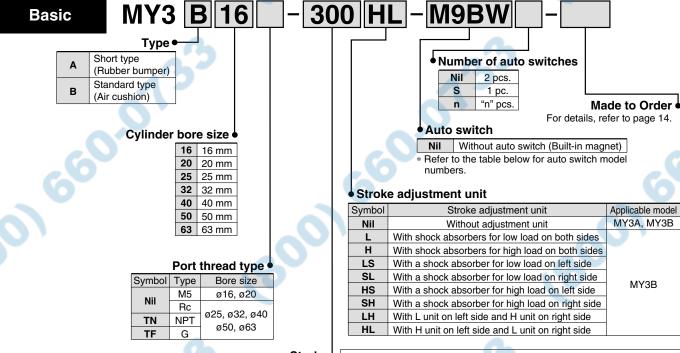
## **Mechanically Jointed Rodless Cylinder/Basic Type**

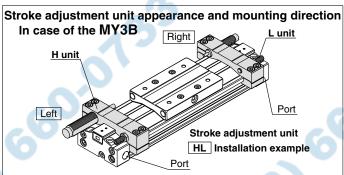
# Series MY3A/3B

Ø16, Ø20, Ø25, Ø32, Ø40, Ø50, Ø63

#### **How to Order**



\* Refer to "Standard Stroke" table on page 14 for further information.



Applicable Auto Switches/ Refer to Best Pneumatics No. 2, pages 1263 to 1371 for further information on auto switches.

		Special function				Load voltage		Auto swit		Lead wire length (m)			n (m)	D						
	Type		Electrical entry	ndicator light	Wiring (Output)	D	C	AC	Perpendicular	In-line	0.5 (Nil)	1	3	5 (Z)	Pre-wired connector	Applicable load				
	<b>a</b>			_	3-wire (NPN)	V	5 V, 12 V		M9NV	M9N	M9N •	•	•	0	0	IC circuit				
4		_			3-wire (PNP)		5 V, 12 V		M9PV	M9P	•	•	•	0	0	ic circuit				
1	state		Crommet	Yes	2-wire	24 V	12 V	M9BV	M9B	3 0 0 0	0	0 -	_	Relay,						
3	ੁ ≧ ਰ	Diagnostic indication (2-color indication)	Grommet	165	3-wire (NPN)	24 V		M9NWV	M9NW			•	0	0	IC circuit	PLC				
ć					3-wire (PNP)	5 V, 12 V		M9PWV	M9PW			•	0	0	ic circuit					
					2-wire		12 V		M9BWV	M9BW			•	0	0					
7000	switch			Ye	Yes	Ye	Yes	3-wire (NPN equiv.)	_	5 V	_	A96V	A96	•	4	•	_	_	IC circuit	_
	SWİ	_	Grommet		2-wire	24 V	12 V	100 V	A93V	A93		_	•	_	_	_	Relay,			
	0,			No	2-wire	24 V	12 V	100 V or less	A90V /	A90		<b>—</b>	•	_	_	IC circuit	PLC			

<sup>\*</sup> Lead wire length symbols: 0.5 m ......Nil 1 m ...... M

 <sup>5</sup> m .........Nil
 (Example) M9NW

 m ..........M
 (Example) M9NWM

 m .......L
 (Example) M9NWL

 m ........Z
 (Example) M9NWZ

<sup>\*</sup> Solid state auto switches marked with a "O" symbol are produced upon receipt of order.

<sup>\*</sup> In addition to the models in the above table, there are some other auto switches that are applicable. For more information, please refer to page 38.

<sup>\*</sup> Refer to Best Pneumatics No. 2, pages 1328 to 1329 for the details of auto switches with a pre-wired connector.

<sup>\*</sup> Auto switches are shipped together, but not assembled.

### Series MY3A/3

# MY3A (Rubber bumper)



#### **Specifications**

Bore size (mm)	16, 20	25, 32	, 32 40 50, 6					
Fluid	Air							
Action	Double acting							
Operating pressure range	0.15 to 0.8 MPa							
Proof pressure	1.2 MPa							
Ambient and fluid temperature	5 to 60°C							
Cushion	Rubber bumper (MY3A) / Air cushion (MY3B)							
Lubrication	Not required (Non-lube)							
Stroke length tolerance	1000 mm or less <sup>+1.8</sup> <sub>0</sub> , From 1001 mm <sup>+2.8</sup> <sub>0</sub> Note)							
Port size (Rc, NPT, G)	M5 x 0.8	1/4	3/8					

Note) The tolerance of the MY3A is a value with no pressurization. When a rubber bumper is used, the stroke of the MY3A varies according to the operating pressure. To find the stroke length tolerance at each operating pressure, double the additional stroke due to pressure on each side (pages 6 and 7) and add it.

#### **Piston Speed**

Bore size (mm)	16	20	25	32	40	50	63
Without stroke adjustment unit (MY3A)	80 to 500 mm/s						
Without stroke adjustment unit (MY3B)	80 to 1000 mm/s						
Stroke adjustment unit (L and H unit/MY3B)	(ø16			1000 nit: 80			m/s)
* External shock absorber (low reaction type)		3	30 to	1500	mm/s	s	

- Refer to "External Shock Absorber Selection" on pages 10 and 11. When the RB series is used, operate at a piston speed that will not exceed the absorption capacity of the air cushion and stroke adjustment unit.
- Because of its structure, the fluctuation of this cylinder's operating speed is greater than rod type cylinders. For applications that require constant speed, select an applicable equipment for the level of demand.

#### Standard Stroke

Bore size (mm)	Standard stroke (mm)*	Max. manufacturable stroke (mm)
16, 20, 25 32, 40, 50 63	100, 200, 300, 400, 500, 600 700, 800, 900, 1000, 1200 1400, 1600, 1800, 2000	3000

Strokes are manufacturable in 1 mm increments, up to the maximum stroke. However, when exceeding 2000 mm stoke, add "-XB11" to the end of the model number. Refer to "Made to Order" on page 40.

#### **Stroke Adjustment Unit Specifications**

Bore size (mm)	16,	20	25,	32	40,	50	63		
Unit symbol	L	Н	L	Н		Н	L	Н	
Shock absorber model	RB0806	RB1007	RB1007	RB1412	RB1412	RB2015	RB2015	RB2725	
Shock absorber soft type Series RJ (-XB22) model	RJ0806H	RJ1007H	RJ1007H	RJ1412H	RJ1412H	_	_	_	
Fine stroke adjustment range (mm)	0 to	-10	0 to	-12	0 to	-16	0 to -24		



#### **Made to Order**

(For details, refer to pages 40 to 44.)

_		, , , , , , , , , , , , , , , , , , ,
	Symbol	Specifications
	-XB11	Long stroke type
	-XB22	Shock absorber soft type Series RJ type
	-X168	Helical insert thread
	-X416	Holder mounting bracket I
	Holder mounting bracket II	
-	14	660.0113

#### Shock Absorber Specifications

ı	Model	RB 0806	RB 1007	RB 1412	RB 2015	RB 2725			
Max. energ	y absorption (J)	0.84	2.4	10.1	29.8	46.6			
Stroke ab	sorption (mm)	6	7	12	15	25			
Max. collisi	on speed (mm/s)	1000							
Max. operating	frequency (cycle/min)	80	70	45	25	10			
Spring	Extended	1.96	4.22	6.86	8.34	8.83			
force (N)	Compressed	4.22	6.86	15.98	20.50	20.01			
Operating ten	nperature range (°C)	2		5 to 60					

Note) The shock absorber service life is different from that of the MY3A/3B cylinders depending on operating conditions. Allowable operating cycle under the specifications set in this catalog is shown below.

1.2 million times RB08□□

#### 2 million times RB10□□ to RB2725

Note) Specified service life (suitable replacement period) is the value at room temperature (20 to 25°C). The period may vary depending on the temperature and other conditions. In some cases the absorber may need to be replaced before the allowable operating cycle above.

