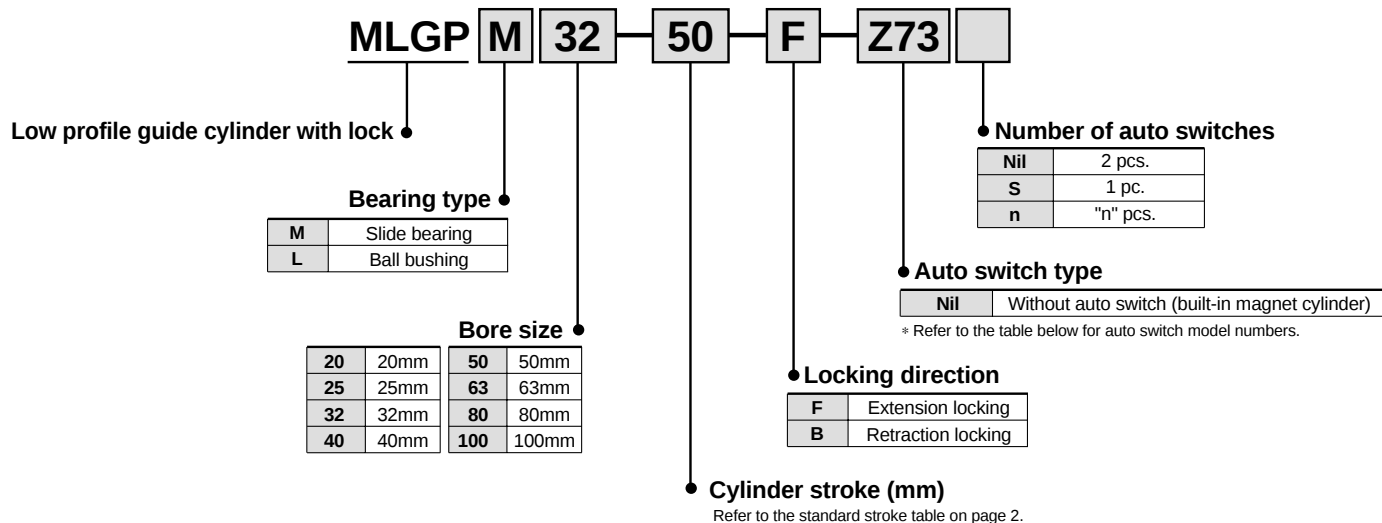


Low Profile Guide Cylinder with Lock

Series *MLGP*

ø20, ø25, ø32, ø40, ø50, ø63, ø80, ø100

How to Order



Applicable auto switches

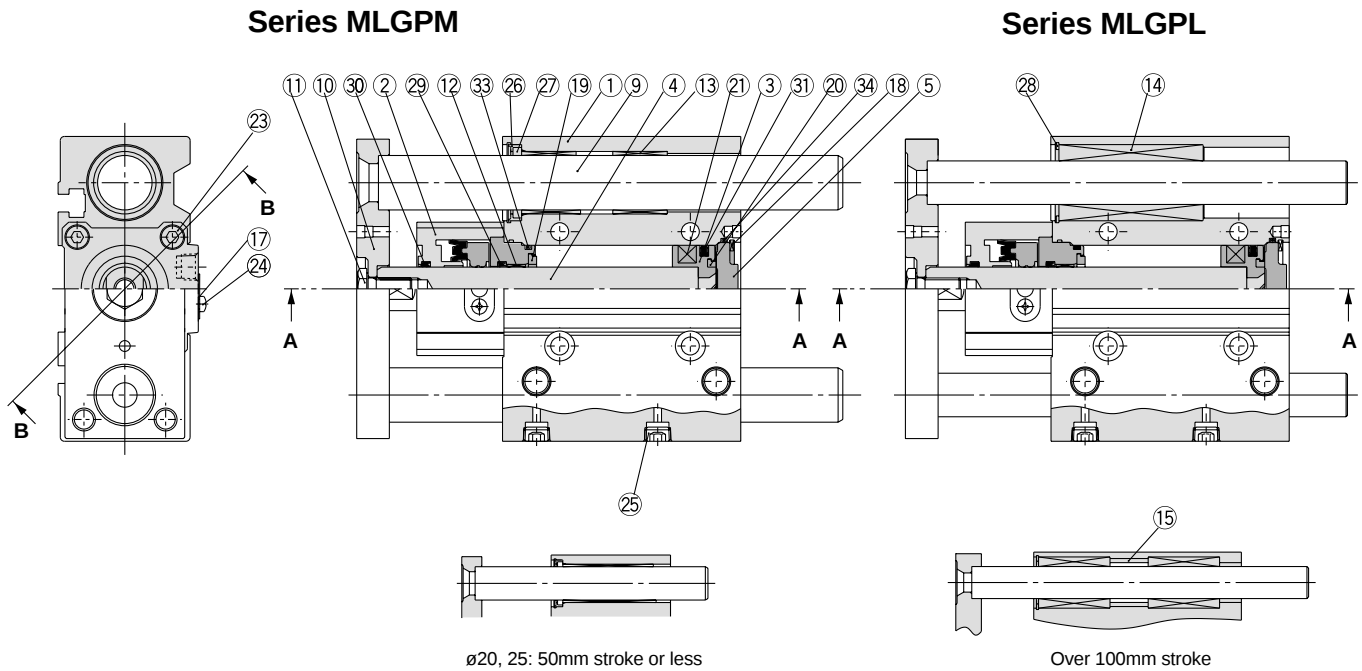
Type	Special function	Electrical entry	Indicator light	Wiring (output)	Load voltage			Auto switch model		Lead wire length (m) ^{Note 1)}			Applicable load		Detailed specifications
					DC	AC	Electrical entry direction		0.5 (Nil)	3 (L)	5 (Z)				
							Perpendicular	In-line							
Reed switch	—	Grommet	Yes	3 wire	—	5V	—	—	Z76	●	●	—	IC circuit	Relay, PLC	P. 12
				2 wire	24V	12V	100V	—	Z73	●	●	●	—		
			No			5V 12V	100V or less	—	Z80	●	●	—	IC circuit		
Solid state switch	—	Grommet	Yes	3 wire (NPN)	24V	5V 12V	—	Y69A	Y59A	●	●	○	IC circuit	Relay, PLC	P. 13
				3 wire (PNP)				Y7PV	Y7P	●	●	○			
				2 wire				12V	Y69B	Y59B	●	●			
	Diagnostic indication (2 color indicator)			3 wire (NPN)		5V 12V		Y7NWV	Y7NW	●	●	○	IC circuit		P. 14
				3 wire (PNP)				Y7PWV	Y7PW	●	●	○			
				2 wire				12V	Y7BWV	Y7BW	●	●			
	Water resistant (2 color indicator)					—		Y7BA	—	●	○	P. 16			
						Magnetic field resistant (2 color indicator)		—	^{Note 3)} P5DW	—	●		●		

Note 1) Lead wire symbols 0.5m Nil (Example) Y69B
 3m L Y69BL
 5m Z Y69BZ

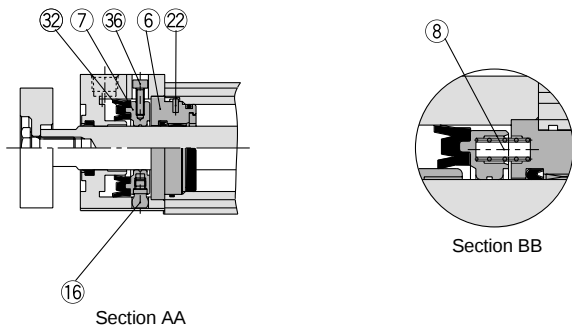
Note 2) Solid state auto switches marked with a "O" are produced upon receipt of order.

Note 3) Type D-P5DW cannot be mounted on bore sizes of ø32 or less.

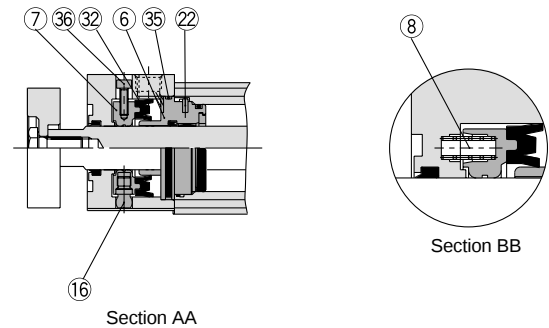
Construction/ø20, ø25, ø32



Extension locking (Type F)



Retraction locking (Type B)



Parts list

No.	Description	Material	Note
1	Body	Aluminum alloy	Hard anodized
2	Lock body	Aluminum alloy	Hard anodized
3	Piston	Aluminum alloy	Chromated
4	Piston rod	ø20, 25 Stainless steel ø32 Carbon steel	Hard chrome plated
5	Head cover	Aluminum alloy	Coated
6	Intermediate collar	Type F Aluminum alloy Type B	Chromated Hard anodized
7	Lock ring	Carbon steel	Heat treated
8	Brake spring	Steel wire	Zinc chromated
9	Guide rod	Type M Carbon steel Type L High carbon chromium bearing steel	Hard chrome plated Heat treated/Hard chrome plated
10	Plate	Rolled steel	Nickel plated
11	Plate mounting bolt	Chrome molybdenum steel	Nickel plated
12	Bushing	ø20, 25 Oil-impregnated sintered alloy ø32 Lead bronze casting	
13	Slide bearing	Lead bronze casting	
14	Ball bushing	—	
15	Spacer	Aluminum alloy	Chromated
16	Pivot	Chrome molybdenum steel	Heat treated/Electroless nickel plated

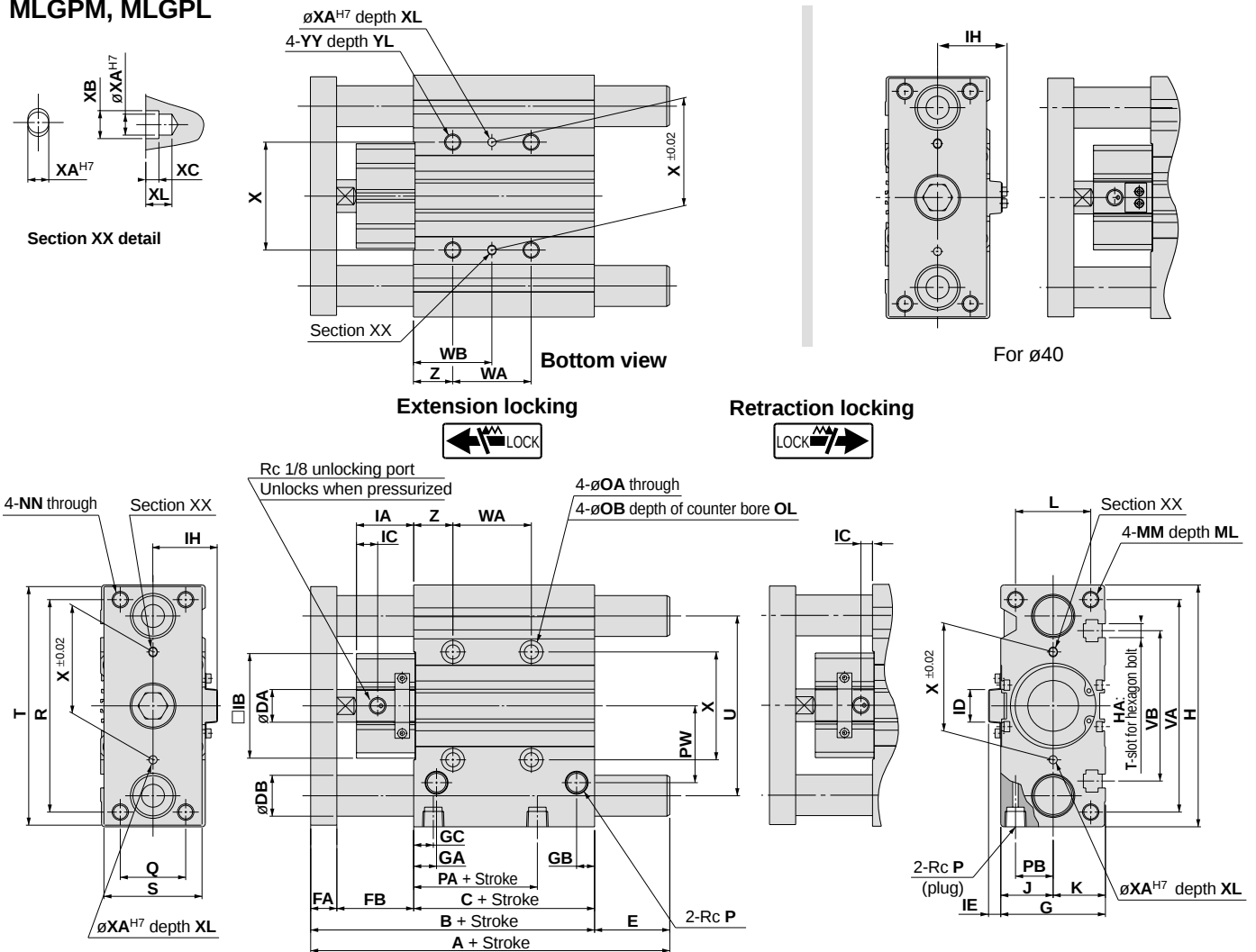
Parts list

No.	Description	Material	Note
17	Dust cover	Stainless steel	
18	C type snap ring for hole	Carbon tool steel	Phosphate coated
19	Bumper A	Urethane	
20	Bumper B	Urethane	
21	Plastic magnet	—	
22	Parallel pin	Carbon steel	
23	Hexagon socket head cap screw	Chrome molybdenum steel	Nickel plated
24	Dust cover holding bolt	Carbon steel	Nickel plated
25	Hexagon socket head taper screw plug	Carbon steel	Nickel plated
26	Holder	Resin	
27	Felt	Felt	
28	C type snap ring for hole	Carbon tool steel	Phosphate coated
29	Rod seal	NBR	
30	Scraper	NBR	
31	Piston seal	NBR	
32	Lock ring seal	NBR	
33	Gasket A	NBR	
34	Gasket B	NBR	
35	Lock body gasket	NBR	
36	Unlocking bolt	Chrome molybdenum steel	Nickel plated

Series MLGP

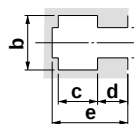
Dimensions/ø40, ø50, ø63

MLGPM, MLGPL



- Note 1) Intermediate strokes other than standard strokes are manufactured by installing spacers. Intermediate strokes for ø40 to ø63 are available in 5mm increments.
- Note 2) For intermediate strokes, dimensions A, B, C, E, WA, and WB will be the same as the longer of the standard strokes.

T-slot dimensions



Bore size (mm)	a	b	c	d	e
40	6.5	10.5	5.5	4	11
50	8.5	13.5	7.5	4.5	13.5
63	11	17.8	10	7	18.5

MLGPM, MLGPL common dimensions

Bore size (mm)	Standard stroke (mm)	B	C	DA	FA	FB	G	GA	GB	GC	H	HA	IA	IB	IC		ID	IE	IH	J	K	L
															Extension locking	Retraction locking						
40	25, 50, 75, 100, 125, 150	100	44	16	12	44	54	14	10	14	120	M6	34	52	11	6.5	14	4	34.5	27	27	40
50	175, 200, 250, 300, 350	107	44	20	16	47	64	14	11	12	148	M8	35	64	13	6.8	19	7	39.5	32	32	46
63		115	49	20	16	50	78	16.5	13.5	16.5	162	M10	38	77	16.5	7.5	19	6.5	46	39	39	58

Bore size (mm)	MM	ML	NN	OA	OB	OL	P	PA	PB	PW	Q	R	S	T	U	VA	VB	WA				
																		st≤25	25<st≤100	100<st≤200	200<st≤300	300<st≤350
40	M8 x 1.25	20	M8 x 1.25	6.6	11	7.5	1/8	13	18	38	30	104	44	118	86	106	72	24	48	124	200	300
50	M10 x 1.5	22	M10 x 1.5	8.6	14	9	1/4	9	21.5	47	40	130	60	146	110	130	92	24	48	124	200	300
63	M10 x 1.5	22	M10 x 1.5	8.6	14	9	1/4	14	28	55	50	130	70	158	124	142	110	28	52	128	200	300

Bore size (mm)	WB					X	XA	XB	XC	XL	YY	YL	Z
	st≤25	25<st≤100	100<st≤200	200<st≤300	300<st≤350								
40	34	46	84	122	172	50	4	4.5	3	6	M8 x 1.25	16	22
50	36	48	86	124	174	66	5	6	4	8	M10 x 1.5	20	24
63	38	50	88	124	174	80	5	6	4	8	M10 x 1.5	20	24

MLGPM (slide bearing)/Dimensions A, DB, E (mm)

Bore size (mm)	A			DB	E		
	st≤50	50<st≤200	200<st≤350		st≤50	50<st≤200	200<st≤350
40	131	136	174	20	31	36	74
50	141.5	153	196	25	34.5	46	89
63	144.5	156	199	25	29.5	41	84

MLGPL (ball bushing)/Dimensions A, DB, E (mm)

Bore size (mm)	A				DB	E			
	st≤50	50<st≤100	100<st≤200	200<st≤350		st≤50	50<st≤100	100<st≤200	200<st≤350
40	115	132	152	174	16	15	32	52	74
50	128	149	169	196	20	21	42	62	89
63	131	152	172	199	20	16	37	57	84