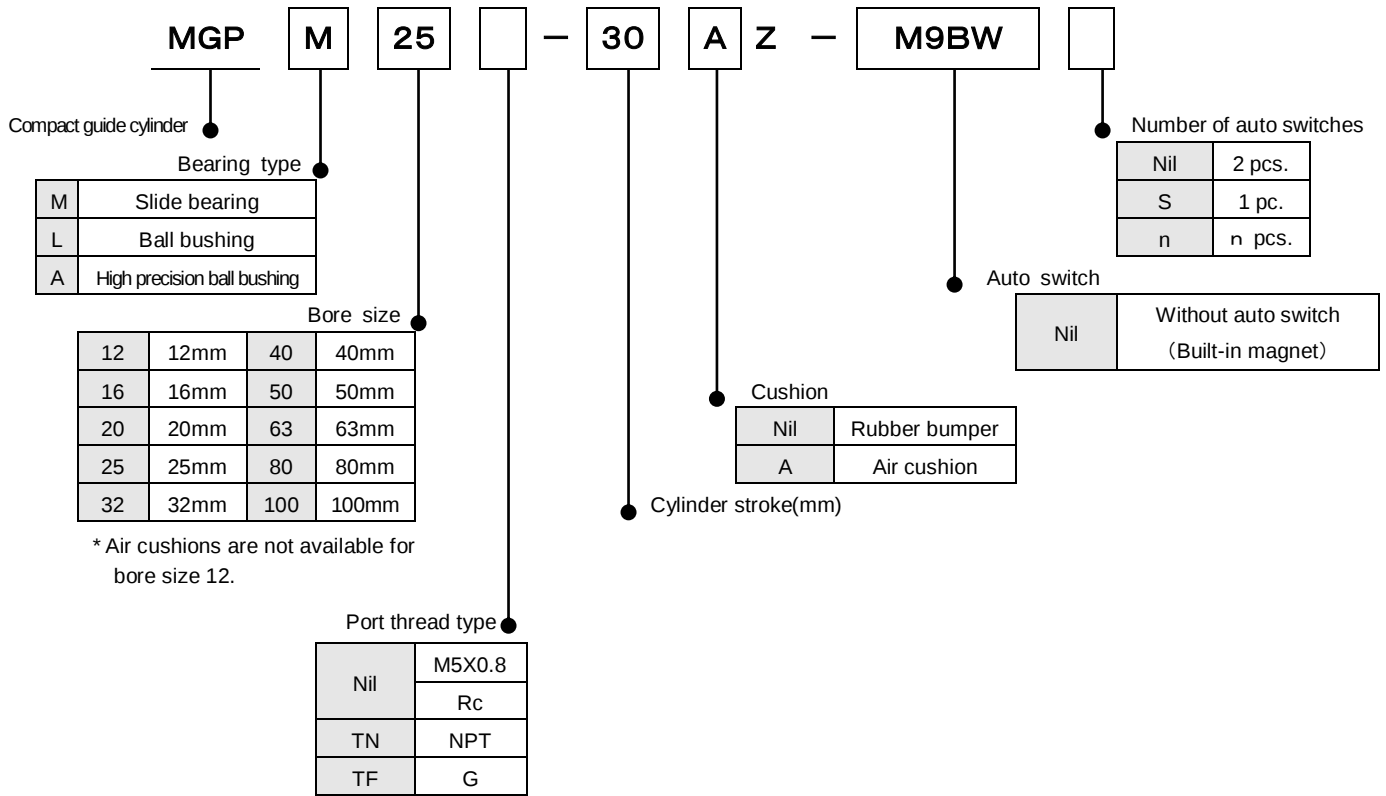


1. How to Order



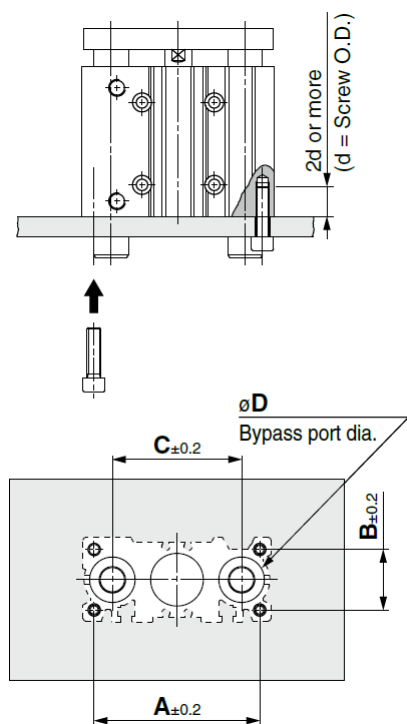
* For bore size with ϕ 12 and ϕ 16, only M5X0.8 is available.

2. Model

Model	Cushion	Bearing type	Bore size(mm)
MGP□□-□Z	Rubber bumper	Slide bearing	12,16,20,25,32,40,50,63,80,100
		Ball bushing	
		High precision Ball Bushing	
MGP□□-□AZ	Air cushion	Slide bearing	16,20,25,32,40,50,63,80,100
		Ball bushing	
		High precision Ball Bushing	

3. Specifications

Model	MGP□□-□Z 【Basic type】		MGP□□-□AZ 【With air cushion】	
Action	Double acting			
Fluid	Air			
Proof pressure	1.5MPa			
Maximum operating pressure	1.0MPa			
Minimum operating pressure	φ 12, φ 16	0.12MPa	φ 16	0.15MPa
	φ 20 toφ 100	0.1MPa	φ 20 toφ 100	0.12MPa
Ambient and fluid temperature	-10 to 60°C (No freezing)			
Piston speed	φ 12 toφ 63	50 to 500mm/s	φ 16 toφ 63	50 to 500mm/s
	φ 80, φ 100	50 to 400mm/s	φ 80, φ 100	50 to 400mm/s
Cushion	Rubber bumper on both ends		Air cushion on both ends (Without bumper)	
Lubrication	Not required (Non-lube)			
Stroke length tolerance	+1.5 0 mm			



Bore size (mm)	A (mm)	B (mm)	C (mm)	D (mm)		Hexagon socket head cap screw
				MGPM	MGPL/A	
12*	50	18	41	10	8	M4 x 0.7
16	56	22	46	12	10	M5 x 0.8
20	72	24	54	14	12	M5 x 0.8
25	82	30	64	18	15	M6 x 1.0
32	98	34	78	22	18	M8 x 1.25
40	106	40	86	22	18	M8 x 1.25
50	130	46	110	27	22	M10 x 1.5
63	142	58	124	27	22	M10 x 1.5
80	180	54	156	33	28	M12 x 1.75
100	210	62	188	39	33	M14 x 2.0

* Air cushions are not available for bore size 12.