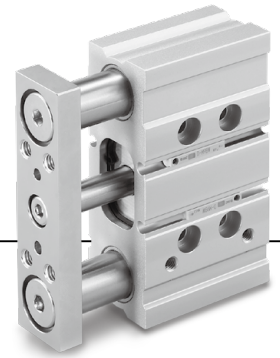


Compact Guide Cylinder/ Rectangular Piston Type



Size: 25, 32

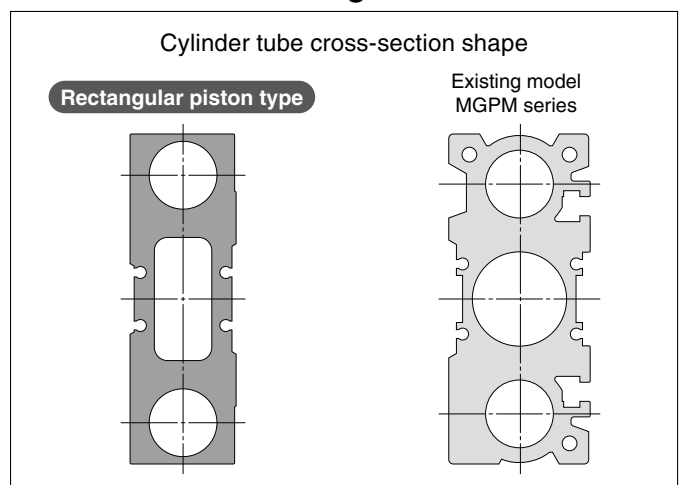
Now more lightweight and compact due to the adoption of a rectangular piston

Width **21%^{*1} reduction**
48 mm → 38 mm

Weight **37%^{*2} reduction**
3.29 kg → 2.07 kg

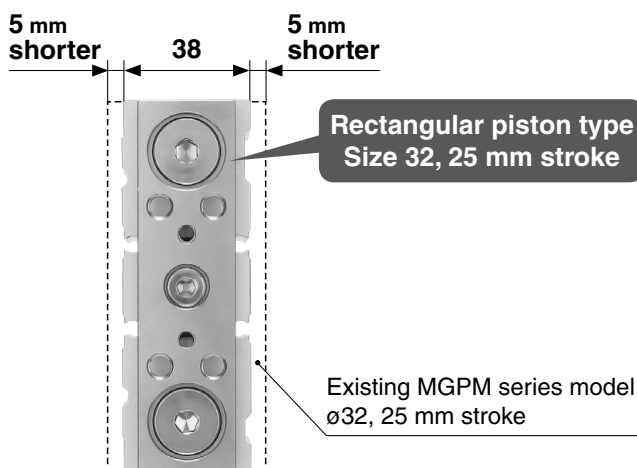
Overall length **7%^{*1} reduction**
100 mm → 93 mm

■ The allowable lateral load and the allowable kinetic energy are the same as those of the existing MGP series model.

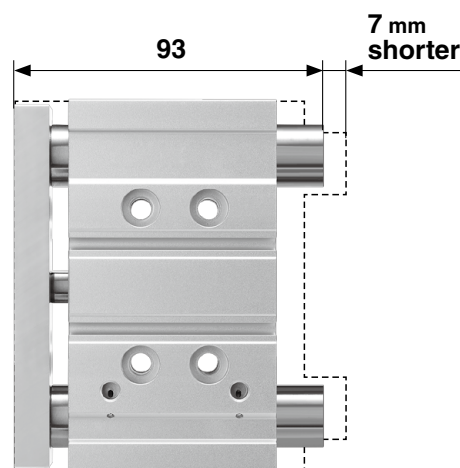


*1 Compared with the existing MGP series model, ø32, 25 mm stroke
*2 Compared with the existing MGP series model, ø32, 150 mm stroke

■ Shortened width

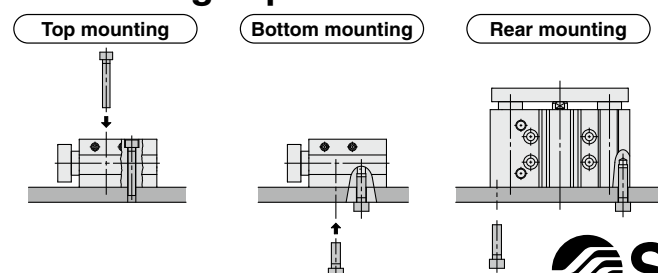


■ Shortened overall length



■ The allowable rotational torque of the plate and the non-rotating accuracy are the same as those of the existing MGP series model.

■ Mounting is possible from 3 directions.



MGPM-X3159



MGPM-X3159



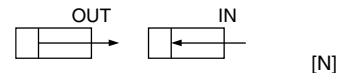
Specifications

Size	25 (Equiv. $\phi 25$ piston area)	32 (Equiv. $\phi 32$ piston area)
Action	Double acting	
Fluid	Air	
Proof pressure	1.05 MPa	
Max. operating pressure	0.7 MPa	
Min. operating pressure	0.1 MPa	
Ambient and fluid temperatures	5 to 60°C	
Piston speed	50 to 500 mm/s	
Cushion	Rubber bumper on both ends	
Lubrication	Not required (Non-lube)	
Stroke length tolerance	$^{+1.5}_0$ mm	
Allowable kinetic energy	0.18 J	0.29 J
Allowable lateral load (at 50 stroke)	5.0 kg	16.7 kg

Standard Strokes

Size	Standard stroke [mm]
25	20, 30, 50, 100, 150
32	25, 50, 75, 100, 150

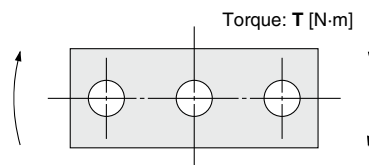
Theoretical Output



Size	Rod size [mm]	Operating direction	Piston area [mm ²]	Operating pressure [MPa]									
				0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	
25	10	OUT	491	98	147	196	245	295	344	393	442	491	
		IN	412	82	124	165	206	247	289	330	371	412	
32	14	OUT	804	161	241	322	402	483	563	643	724	804	
		IN	650	130	195	260	325	390	455	520	585	650	

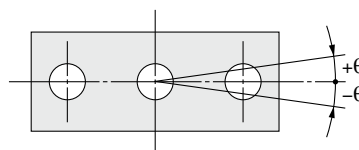
* Theoretical output [N] = Pressure [MPa] x Piston area [mm²]

Allowable Rotational Torque of Plate



Size	Stroke [mm]						
	20	25	30	50	75	100	150
25	1.76	—	1.55	1.25	—	2.57	2.02
32	—	6.35	—	5.13	5.69	4.97	3.98

Non-rotating Accuracy of Plate



Non-rotating accuracy θ when retracted and when no load is applied should be not more than the values shown in the table.

Size	Non-rotating accuracy θ
25	$\pm 0.06^\circ$
32	$\pm 0.05^\circ$

