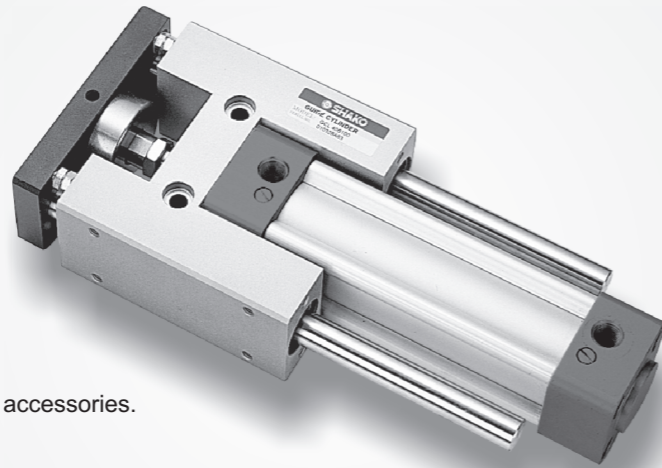


Features

- * Integration of standard cylinder and guide rod.
- * Cylinder body connected with guide rod by floating joint, without friction in operation.
- * Two guide rods offer high non-rotating accuracy.
- * Two guide rod bearings for selection.
- * The linear bearing is applicable to high speed acting and light loads.
- * The bush bearing is applicable to low speed acting and heavy loads.
- * Sensor switch and shock absorber are optional accessories.



How to order

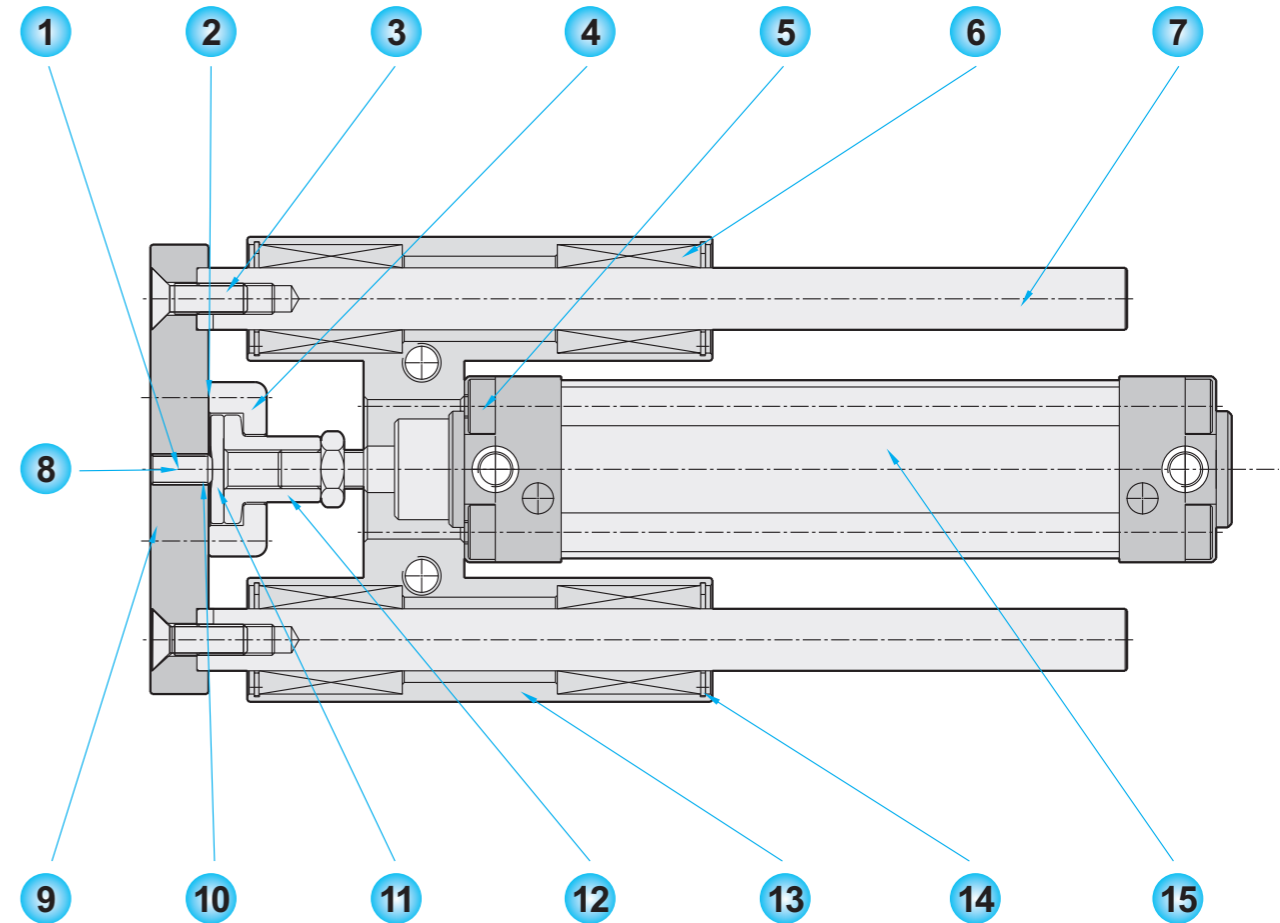
GC	L	32	B	50	A1	F	SF	1
Guide cylinder	Guide rod	Bore size	Shock absorber/Number	Shock absorber	Sensor type	Number of sensor		
	B Bush bearing	32 φ 32	A1 1 pc	F Assembly in front	Blank W/O sensor	1 pc		
	L Linear bearing	40 φ 40	A2 2 pcs	B Assembly in rear	SF LED in front	2 pcs		
		50 φ 50			ST LED on top			
		63 φ 63						
		80 φ 80						
		100 φ 100						

* Please refer to page 6-13 "SHOCK ABSORBER" for specifications of shock absorber.
* Please add stroke 50mm for assembling cushion in rear.

Specifications

Bore size	φ 32	φ 40	φ 50	φ 63	φ 80	φ 100
Port size	1/8"	1/4"		3/8"		1/2"
Fluid	Compressed air					
Acting	Double acting					
Operating pressure range	2 ~ 9 kgf/cm ²					
Max operating pressure	10.5 kgf/cm ²					
Lubrication	Not required					
Barrel material	Aluminum alloy					
Magnet	Built-in					
Ambient temperature	0°C ~ 60°C					
Piston speed mm/Sec	100~500mm					

Material of parts



No.	Description	Material	Qty.	No.	Description	Material	Qty.
1	Press unit	Industrial plastic	1	9	Plate	Aluminum alloy	1
2	Fixing screw	Carbon steel	4	10	Adjustable screw	Carbon steel	1
3	Fixing screw	Carbon steel	2	11	Press unit	Carbon steel	2
4	Cap	Carbon steel	1	12	T type adaptor	Carbon steel	1
5	Fixing screw	Carbon steel	4	13	Guide body	Aluminum alloy	1
6	Linear bearing	Bearing steel	4	14	Snap ring	Carbon steel	4
7	Guide rod	Bearing steel	2	15	ISO6431 standard cylinder	Aluminum alloy	1
8	Adjustable screw	Carbon steel	1				

Theoretical force

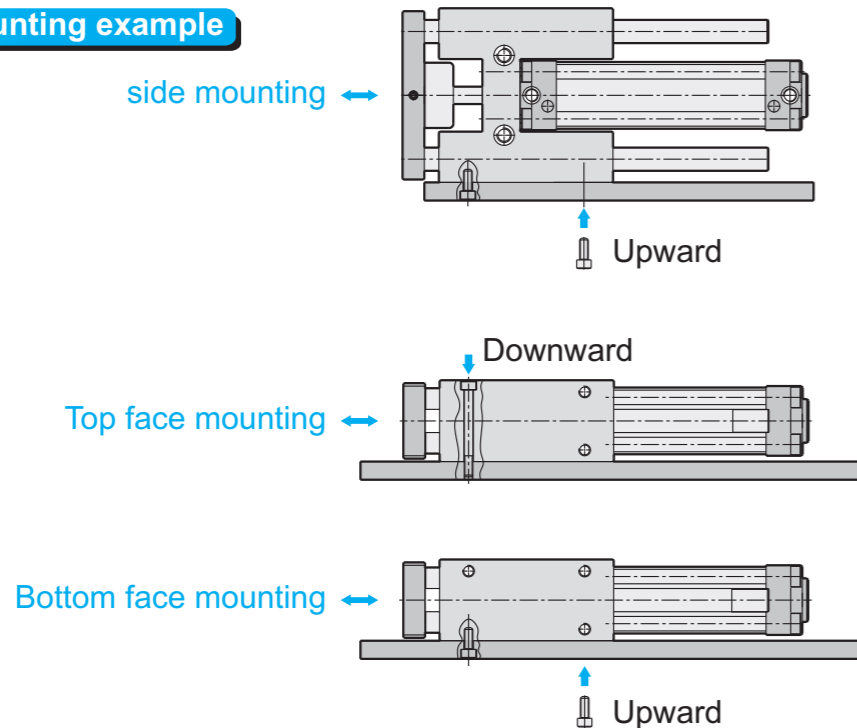
Bore size	Rod diameter	Acting	Piston area cm ²	Operating pressure kgf/cm ²					
				2	3	4	5	6	7
φ 32	φ 12	Push	8.04	16.08	24.12	32.16	40.2	48.24	56.28
		Pull	6.91	13.82	20.73	27.64	34.56	41.46	48.37
φ 40	φ 16	Push	12.57	25.14	37.71	50.28	62.85	75.42	87.99
		Pull	10.56	21.12	31.68	42.24	52.8	63.36	73.92
φ 50	φ 20	Push	19.63	39.26	58.89	78.52	98.15	117.78	137.41
		Pull	16.49	32.98	49.47	65.96	82.45	98.94	115.43
φ 63	φ 20	Push	31.17	62.34	93.51	124.68	155.85	187.02	218.19
		Pull	28.03	56.06	84.09	112.12	140.15	168.18	196.21
φ 80	φ 25	Push	50.27	100.54	150.81	201.08	251.35	301.62	351.89
		Pull	45.36	90.72	136.08	181.44	226.8	272.16	317.52
φ 100	φ 25	Push	78.54	157.08	235.62	314.16	392.7	441.78	549.78
		Pull	73.63	147.26	220.89	294.52	368.15	417.24	515.41

Stroke table

Bore size	Standard stroke (mm)	Max. stroke (mm)
φ 32	50, 100, 150, 200, 250, 300	500
φ 40	50, 100, 150, 200, 250, 300	500
φ 50	50, 100, 150, 200, 250, 300, 350, 400, 450, 500	750
φ 63	50, 100, 150, 200, 250, 300, 350, 400, 450, 500	750
φ 80	50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 750	1000
φ 100	50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 750	1000

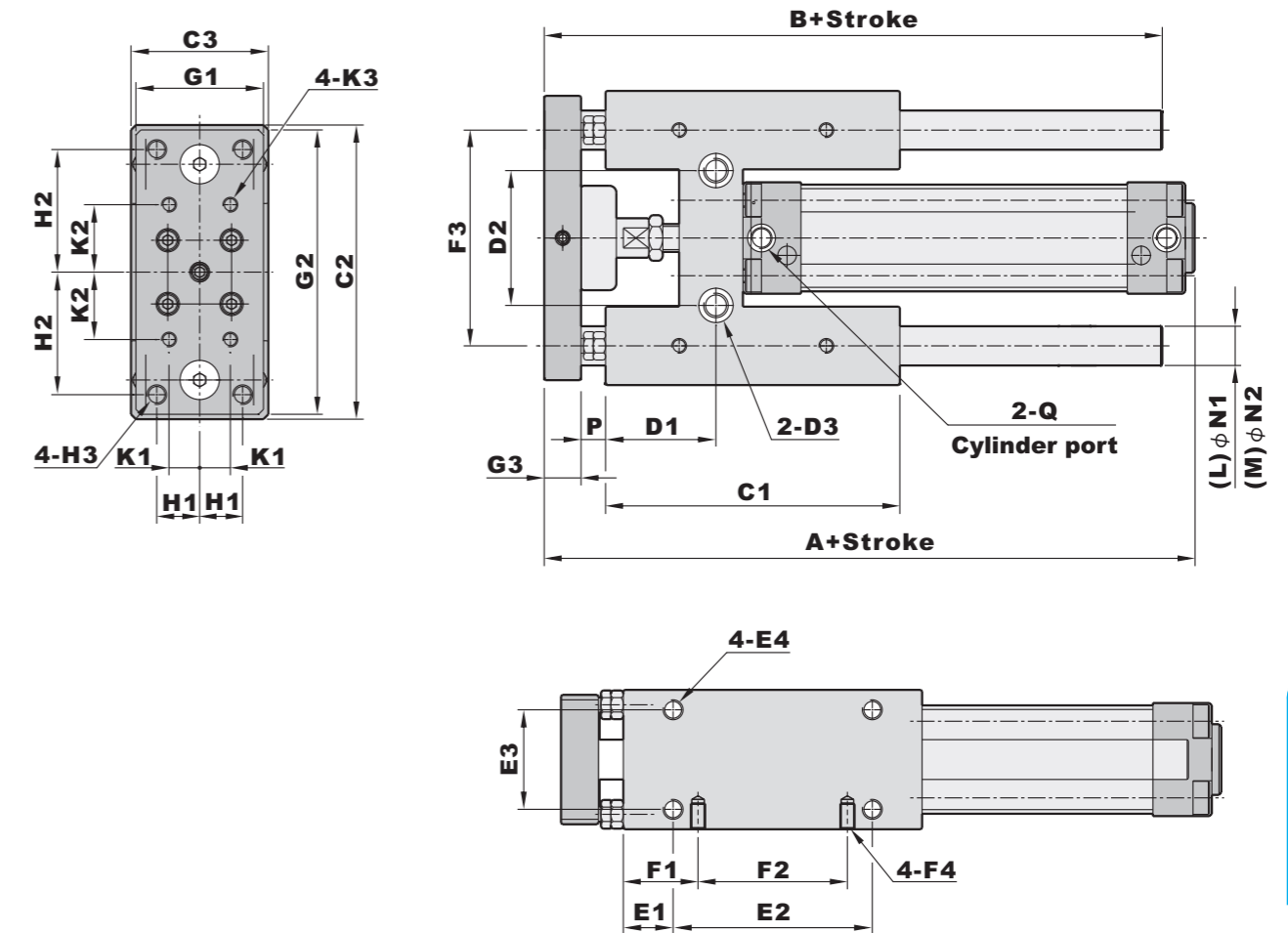
Note: Please contact our sales for non-standard stroke.

Mounting example



Dimensions

Standard type



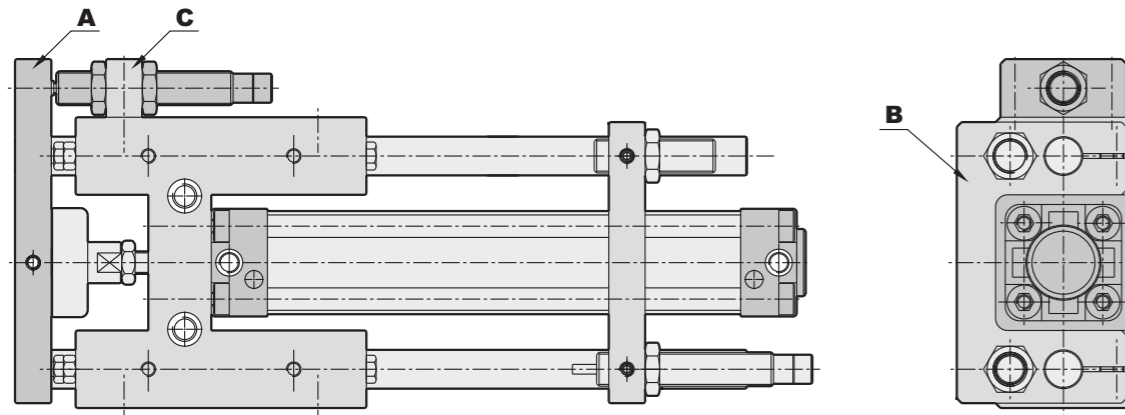
(Unit : mm)

Bore size	A	B	C1	C2	D1	D2	D3	E1	E2	E3	E4	F1	F2	F3
φ 32	179	152	120	120	45	55	φ 8.5-φ 14x8.5 Depth	20	80	40	M6xP1.0x15 Depth	30	60	88
φ 40	180	152	120	120	45	55	φ 8.5-φ 14x6 Depth	20	80	40	M6xP1.0x15 Depth	30	60	88
φ 50	219	200	160	160	65	80	φ 10.5-φ 17x11Depth	30	100	50	M8xP1.25x20 Depth	40	80	120
φ 63	236	200	160	160	65	80	φ 10.5-φ 17x7 Depth	30	100	50	M8xP1.25x20 Depth	40	80	120
φ 80	280	270	220	220	90	120	φ 12.5-φ 20x13 Depth	40	140	80	M10xP1.5x20 Depth	60	100	170
φ 100	290	270	220	220	90	120	φ 12.5-φ 20x12 Depth	40	140	80	M10xP1.5x20 Depth	60	100	170

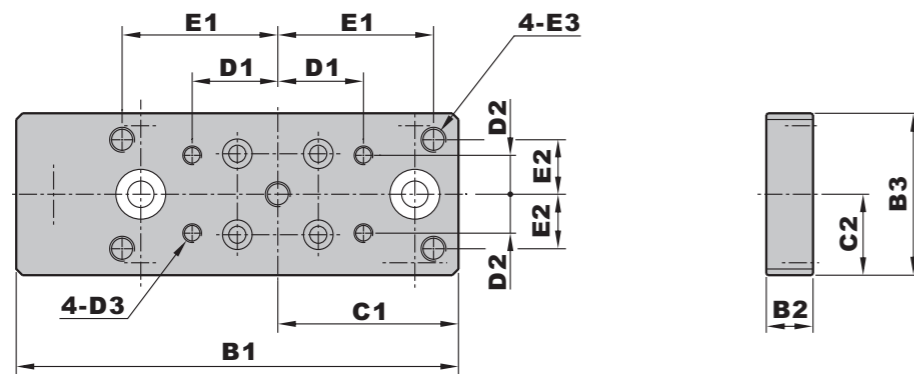
Bore size	F4	G1	G2	G3	H1	H2	H3	K1	K2	K3	N1	N2	P	Q
φ 32	M6xP1.0x10 Depth	52	116	15	17.5	50	M8xP1.25	12.5	27.5	M6xP1.0	16	20	10	PS 1/8
φ 40	M6xP1.0x10 Depth	52	116	15	17.5	50	M8xP1.25	12.5	27.5	M6xP1.0	16	20	10	PS 1/4
φ 50	M8xP1.25x15 Depth	74	156	20	25	65	M10xP1.5	20	40	M8xP1.25	20	25	10	PS 1/4
φ 63	M8xP1.25x15 Depth	74	156	20	25	65	M10xP1.5	20	40	M8xP1.25	20	25	10	PS 3/8
φ 80	M10xP1.5x20 Depth	110	216	25	40	90	M12xP1.75	30	55	M10xP1.5	25	30	10	PS 3/8
φ 100	M10xP1.5x20 Depth	110	216	25	40	90	M12xP1.75	30	55	M10xP1.5	25	30	10	PS 1/2

Dimensions

Guide cylinder with shock absorber



A : Front plate

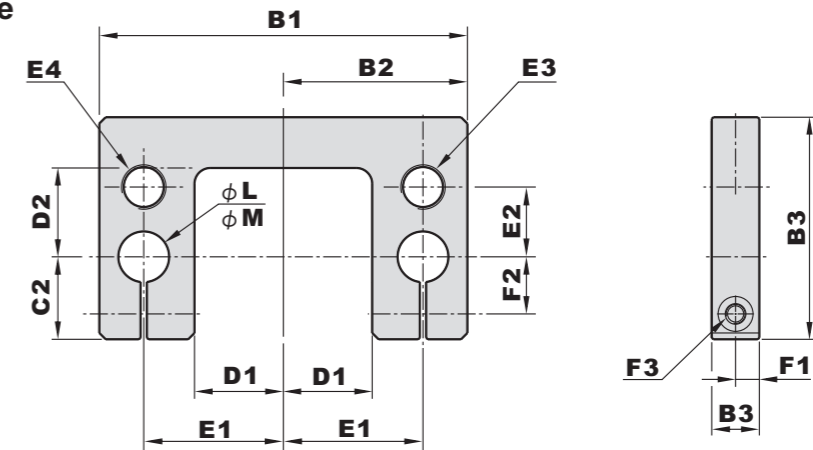


(Unit : mm)

Bore size	B1	B2	B3	C1	C2	D1	D3	E1	E2	E3
φ32	142	15	52	58	26	27.5	M6xP1.0	50	17.5	M8xP1.25
φ40	142	15	52	58	26	27.5	M6xP1.0	50	17.5	M8xP1.25
φ50	190	20	74	78	37	40	M8xP1.25	65	25	M10xP1.5
φ63	190	20	74	78	37	40	M8xP1.25	65	25	M10xP1.5
φ80	258	25	110	108	55	55	M10xP1.5	90	40	M12xP1.75
φ100	258	25	110	108	55	55	M10xP1.5	90	40	M12xP1.75

Dimensions

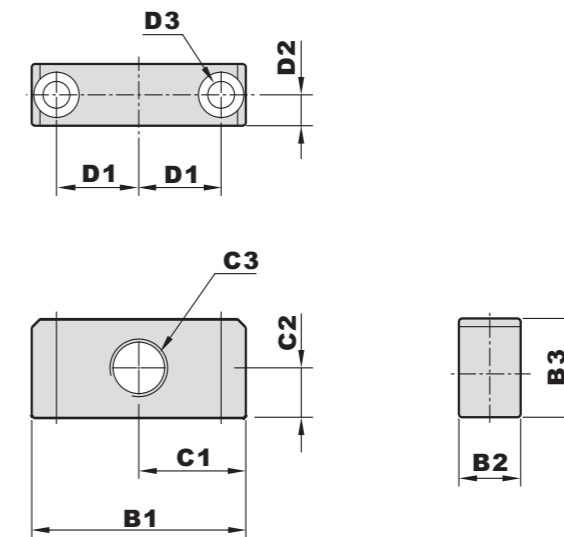
B : End plate



(Unit : mm)

Bore size	B1	B2	B3	C1	C2	D1	D2	E1	E2	E3	E4	F1	F2	F3
φ32	116	15	70	58	26	28	28	44	22	M14xP1.5	M14xP1.5	7.5	18	φ 6.5- φ 9.5x6.5 Depth
φ40	116	15	70	58	26	28	28	44	22	M14xP1.5	M14xP1.5	7.5	18	φ 6.5- φ 9.5x6.5 Depth
φ50	158	20	97	78	37	39	39	60	32	M14xP1.5	M20xP1.5	10	25	φ 8.5- φ 14x8.5 Depth
φ63	158	20	97	78	37	39	39	60	32	M14xP1.5	M20xP1.5	10	25	φ 8.5- φ 14x8.5 Depth
φ80	216	25	140	108	55	57.5	57.5	85	48	M14xP1.5	M25xP1.5	12.5	40	φ 10.5- φ 17x11 Depth
φ100	216	25	140	108	55	57.5	57.5	85	48	M14xP1.5	M25xP1.5	12.5	40	φ 10.5- φ 17x11 Depth

C : Mounting block



(Unit : mm)

Bore size	B1	B2	B3	C1	C2	C3	D1	D2	F3
φ32	52	15	24	26	12	M14xP1.5	20	7.5	φ 6.5- φ 9.5x6.5 Depth
φ40	52	15	24	26	12	M14xP1.5	20	7.5	φ 6.5- φ 9.5x6.5 Depth
φ50	74	20	32	37	16	M20xP1.5	25	10	φ 8.5- φ 14x8.5 Depth
φ63	74	20	32	37	16	M20xP1.5	25	10	φ 8.5- φ 14x8.5 Depth
φ80	110	25	40	55	20	M25xP1.5	40	12.5	φ 10.5- φ 17x11 Depth
φ100	110	25	40	55	20	M25xP1.5	40	12.5	φ 10.5- φ 17x11 Depth