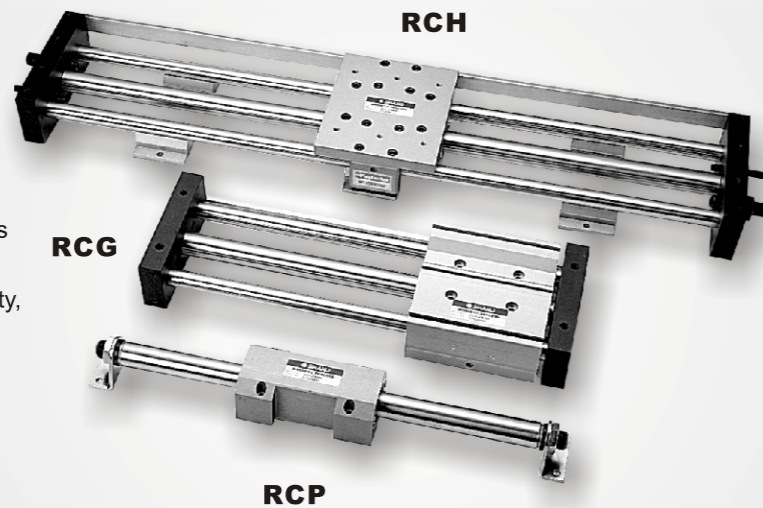


Features

- * Utilize a special magnetic device to move cylinder body instead of piston rod acting, so the length of cylinder is half shorter than standard cylinder.
- * The piston in magnetic device is sealed by stainless steel tube that is completely isolated from cylinder body, which ensures leakage free and long life.
- * Moving magnetically provides stable quality, accuracy, and vibration free.
- * Automation quality test ensures excellent performance.
- * Simple installation and maintenance.



How to order

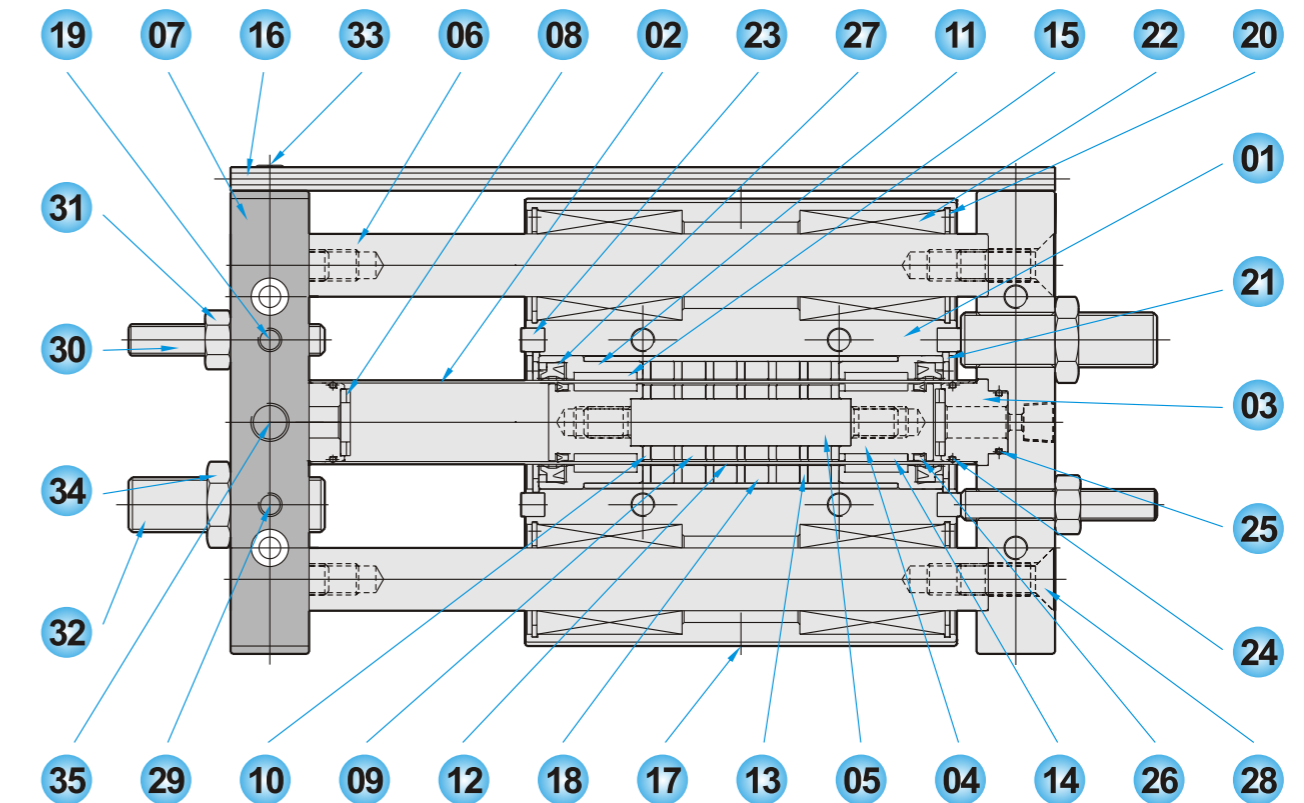
RCP	L	32	B	50	A1	SF	1	
Rodless magnetic cylinder	Guide rod	Bore size		Stroke	Shock absorber/Number	Sensor type		Number of sensor
RCP	B Bush bearing	20	φ 20	A1	1 pc	Blank	W/O sensor	1 pc
RCG	L Linear bearing	25	φ 25	A2	2 pcs	SS	Square type	2 pcs
RCH		32	φ 32			SR	Round type	

* Please refer to page 6-13 "SHOCK ABSORBER" for specifications of shock absorber.

Specifications

Bore size	φ 20	φ 25	φ 32
Port size	1/8"		
Fluid	Compressed air		
Acting	Double acting		
Operating pressure range	2 ~ 7 kgf/cm ²		
Max operating pressure	10.5 kgf/cm ²		
Barrel material	Aluminum alloy		
Lubrication	Not required		
Lubricant on outside rod	Required		
Magnet	Built-in		
Ambient temperature	0°C ~ 60°C		
Piston speed	500 mm/Sec		
Bush bearing	Applicable to low speed acting(Heavy loads)		
Linear bearing	Applicable to high speed acting(Light loads)		

Material of parts



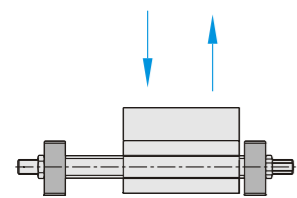
No.	Description	Material	Qty.	No.	Description	Material	Qty.
1	Cylinder body	Aluminum alloy	1	19	Press unit	Industrial plastic	4
2	Piston rod	Stainless steel	1	20	Snap ring	Spring steel	4
3	Top cover	Aluminum alloy	2	21	Snap ring	Spring steel	2
4	Piston	Aluminum alloy	2	22	Linear bearing	Bearing steel	4
5	Center rod	Stainless steel	1	23	Stopper	Bearing steel	4
6	Guide rod	Bearing steel	2	24	O-ring	NBR	2
7	Front plate	Aluminum alloy	2	25	O-ring	NBR	2
8	Bumper	NBR	2	26	Piston packing	NBR	2
9	Piston magnet	Ferrite magnet	6	27	Rod packing	NBR	2
10	Piston magnet holder	Ferrite	7	28	Fixing screw	Carbon steel	4
11	Body end cover	Aluminum alloy	2	29	Socket screw	Carbon steel	4
12	Magnet tube	Aluminum alloy	1	30	Adjustable screw	Carbon steel	2
13	Body magnet holder	Ferrite	7	31	Nut	Carbon steel	2
14	Piston wear ring	Teflon	2	32	Adjustable screw	Carbon steel	2
15	Wear ring cover	Teflon	2	33	Fixing screw	Carbon steel	2
16	Sensor mounting rail	Aluminum	1	34	Nut	Carbon steel	2
17	Magnet	Ferrite magnet	1	35	Bolt	Carbon steel	2
18	Outside magnet	Ferrite magnet	6				

Theoretical force

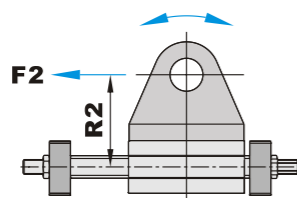
Bore size	Piston area cm ²	Operating pressure kgf/cm ²					
		2	3	4	5	6	7
φ 20	3.14	6.28	9.42	12.56	15.7	18.84	21.98
φ 25	4.91	9.82	14.73	19.64	24.55	29.46	34.37
φ 32	8.04	16.08	24.12	32.16	40.2	48.24	56.28

Allowable loads

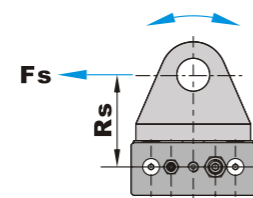
W2



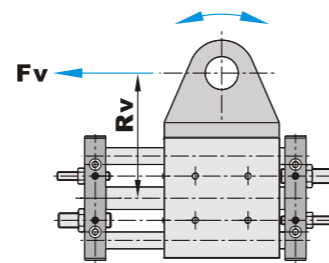
M2=F2XR2



Ms=FsXR_s



Mv=FvXR_v

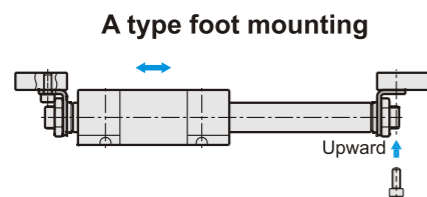
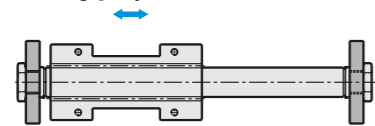


Stroke table

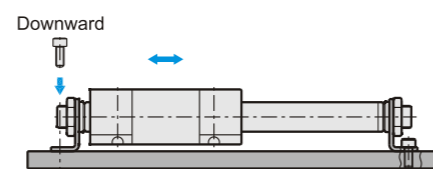
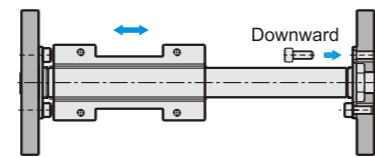
Bore size	Load W2(kgf-cm)	Load M2(kgf-cm)	Load Ms(kgf-cm)	Load Mv(kgf-cm)	Bore size	Standard stroke(mm)
φ 20	13	55	11	55	φ 20	100, 200, 300, 400, 500, 600, 700, 750, 800, 900, 1000
φ 25	20	100	20	100	φ 25	
φ 32	32	160	32	160	φ 32	

Mounting example

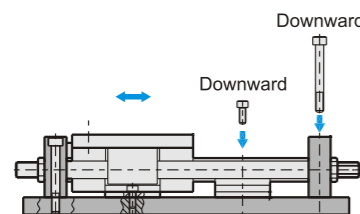
RCP(Mono-block type)



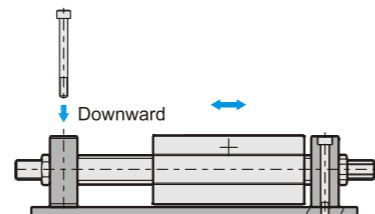
Flange mounting



RCH(Mono-block with supporting type)

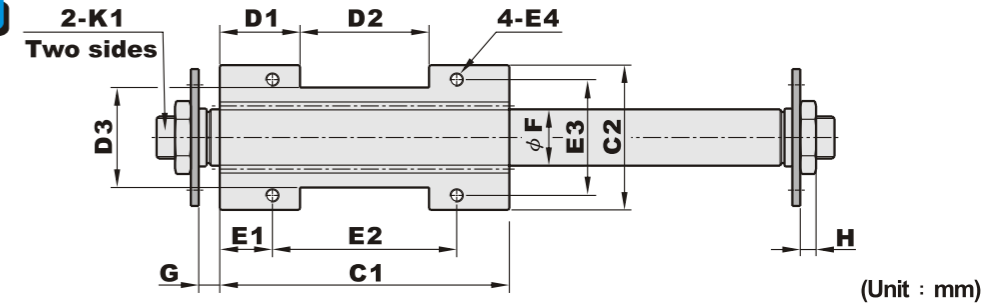


RCG(Guide type)



Dimensions

RCP series

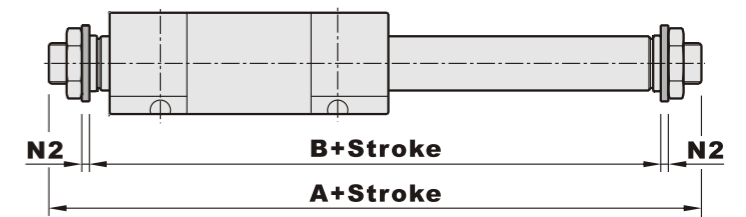
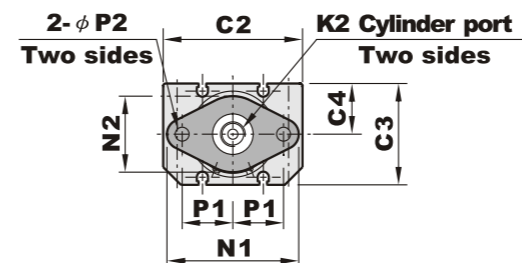


Bore size	A	B	C1	C2	C3	D1	D2	D3	E1	E2	E3	E4	F	G	H
φ 20	156	126	110	55	40	30.5	49	38	20	70	44	M5xP0.8x15dp	21.4	8	8
φ 25	166	126	110	65	50	30.5	49	48	20	70	54	M5xP0.8x15dp	26.4	8	8
φ 32	186	146	120	80	60	29	62	60	20	80	66	M6xP1.0x20dp	33.6	13	8

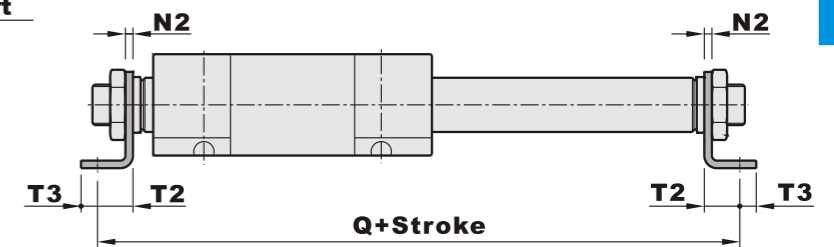
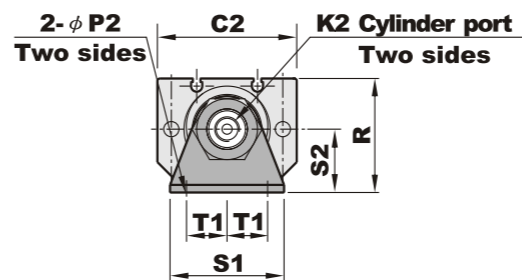
Bore size	K1	K2	N1	N2	N3	P1	P2	Q	R	S1	S2	T1	T2	T3
φ 20	M16xP1.5xL16	RS 1/8	52	30	3	20	5.5	154	45	45	25	16	14	6.5
φ 25	M22xP1.5xL20	RS 1/8	66	40	3	25	6.5	160	55	55	30	20	17	9
φ 32	M22xP1.5xL20	RS 1/8	66	40	3	25	6.5	180	65	65	35	25	17	9

Mounting type

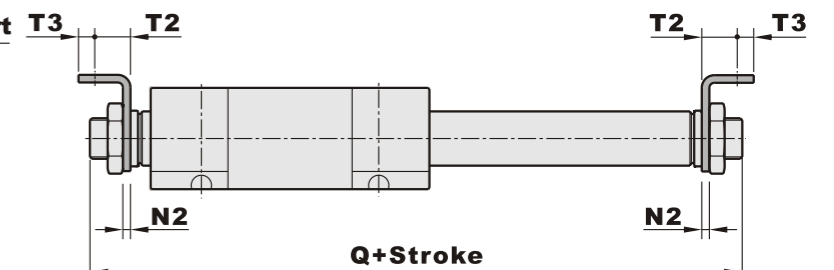
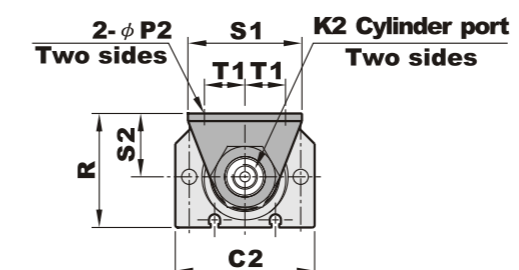
FA Flange mounting



L type foot mounting(Foot downward)

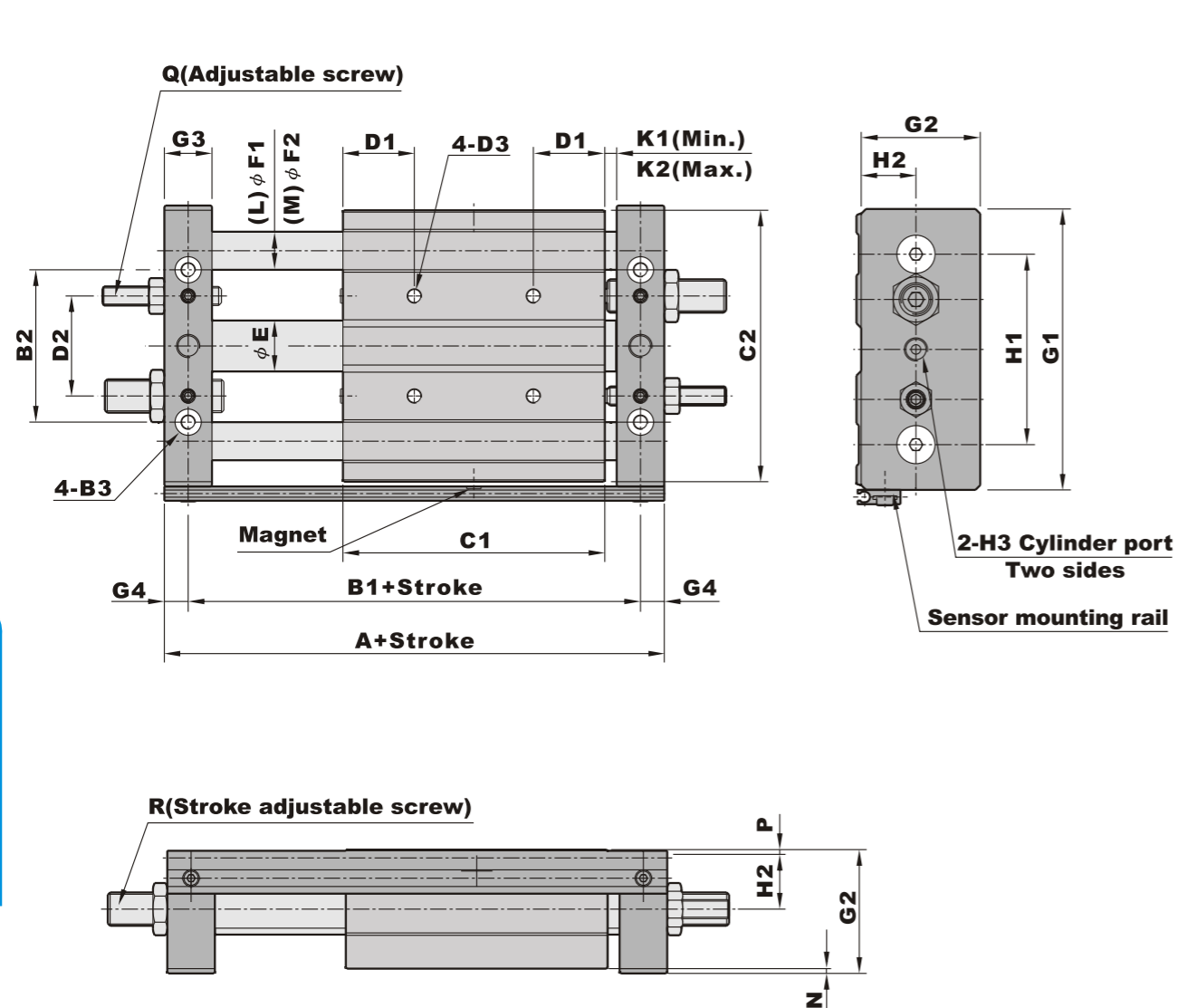


L type foot mounting(Foot upward)



Dimensions

RCG series



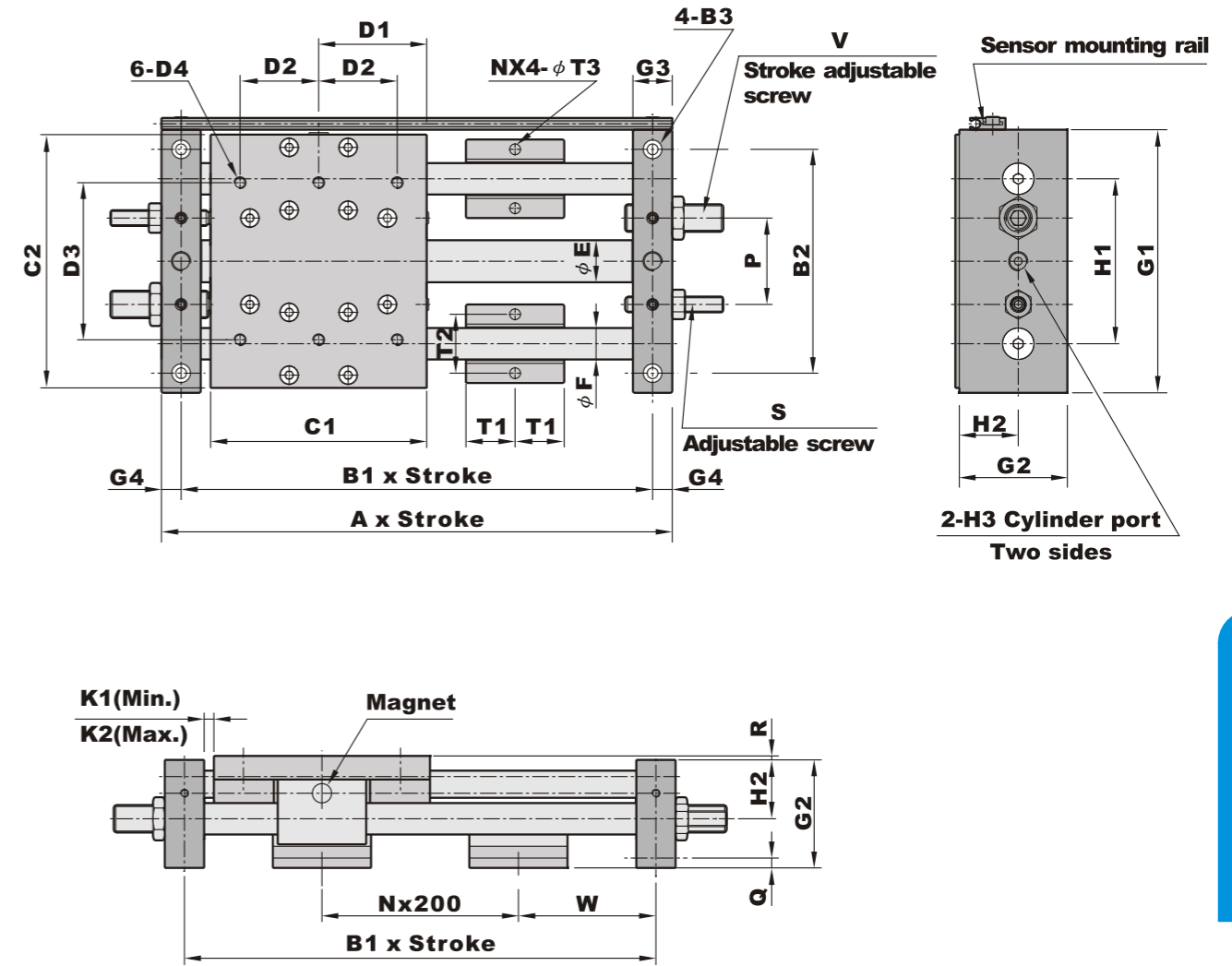
(Unit : mm)

Bore size	A	B1	B2	B3	C1	C2	D1	D2	D3	F1	F2	G1	G2
φ 20	126	140	64	φ 5.2- φ 9.5x5.5dp	110	114	30	42	M6xP1.0x15dp	16	20	118	50
φ 25	126	140	74	φ 5.2- φ 9.5x5.5dp	110	124	30	52	M6xP1.0x15dp	16	20	128	54
φ 32	146	165	94	φ 6.8- φ 11x6.5dp	120	150	35	66	M8xP1.25x20dp	20	25	154	62

Bore size	G3	G4	H1	H2	H3	K1	K2	N	P	Q	R
φ 20	20	10	80	23	RS 1/8	5	25	2	2	M8xP1.25xL50	M14xP1.5xL50
φ 25	20	10	90	25	RS 1/8	5	25	2	2	M8xP1.25xL50	M14xP1.5xL50
φ 32	25	12.5	112	29	RS 1/4	10	25	2	2	M14xP1.5xL50	M20xP1.5xL50

Dimensions

RCH series



(Unit : mm)

Stroke	500	1000	1500
N	2	5	7
W	120	70	120

Bore size	A	B1	B2	B3	C1	C2	D1	D2	D3	D4	E	F	G1	G2	G3
φ 20	160	140	114	φ 5.2- φ 9.5x5.5dp	110	129	55	40	80	M5xP0.8x15dp	21.4	16	134	55	20
φ 25	160	140	124	φ 5.2- φ 9.5x5.5dp	110	139	55	40	100	M5xP0.8x15dp	26.4	16	144	64	20

Bore size	G4	H1	H2	H3	K1	K2	P	Q	R	S	T1	T2	T3	V
φ 20	10	84	30	RS 1/8	5	25	44	5	2	M8xP1.25xL50	25	30	5.5	M14xP1.5xL50
φ 25	10	94	35	RS 1/8	5	25	54	5	2	M8xP1.25xL50	25	30	5.5	M14xP1.5xL50