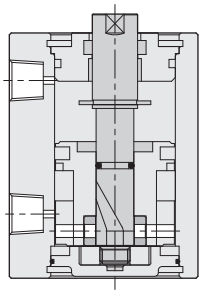
HGR(L) series Table Type Rotary Clamp Cylinder

Product features/ Code of order

CHELIC

Internal structure

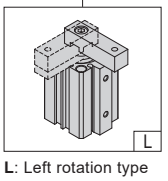


Specification

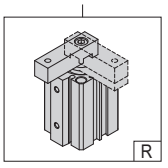
Item / Bore size (mm)	Ø20	Ø25	Ø32	Ø40
Action	Double acting			
Fluid	Air			
Pressure range kgf/cm² (kPa)	1.5 ~ 8 (150 ~ 800)			
Ambient and fluid temperature ℃	0 ~ 60			
Piston speed mm/ s	30 ~ 500			
Rotary stroke mm	Table type rotation without rotary stroke			
Under pressure stroke mm	5			
Rotation angle °	90			
Rotation direction	Left (From right to left) - L; Right (From left to right) - R			
Cushion device	Rubber lining			
Lubrication	Lubrication free type			
Port Size	M5x0.8P			Rc 1/8
Sensing device	With magnet			

Code of order

HG | R — Model



L: Left rotation type
(From right to left)



R: Right rotation type
(From left to right)

32 — Bore size

20 — Ø20mm
25 — Ø25mm
32 — Ø32mm
40 — Ø40mm

×

5 — Stroke

5 — 5 mm

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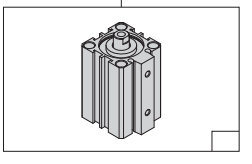
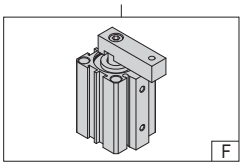
F — With mounting holder



None :
without mounting holder



F : with mounting holder

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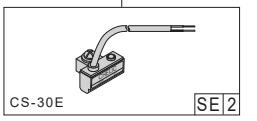
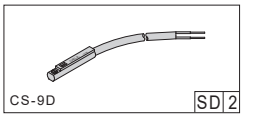
SE | 2 — Sensor switch



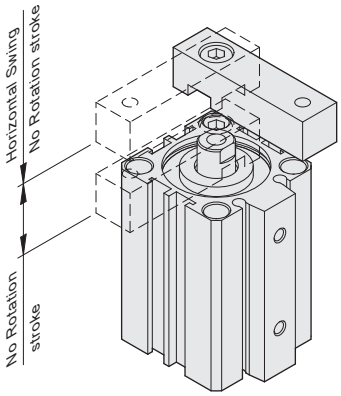
SE : Sensor switch code (CS-30E)

2 : Number of sensor switch
1 = 1 PCS
2 = 2 PCS(option)

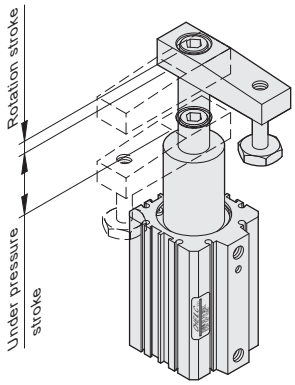


SD : Sensor switch code (CS-9D)
SB : Sensor switch code (CS-9B)
2 : Number of sensor switch
1 = 1 PCS
2 = 2 PCS(option)

Operation illustration for horizontal swing clamp cylinder

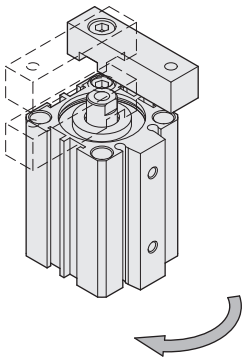


Operation illustration for swing clamp cylinder

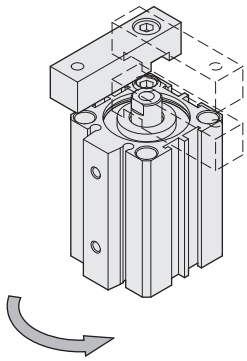


Swing operation for horizontal swing clamp cylinder

- Left rotation - HGL type

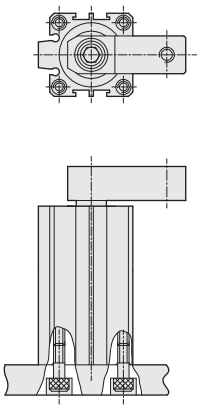


- Right rotation - HGL type

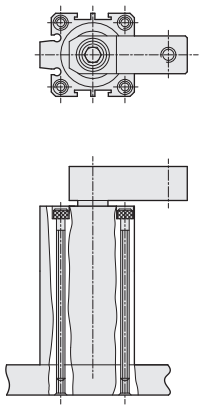


Mounting type

- Base mounting type



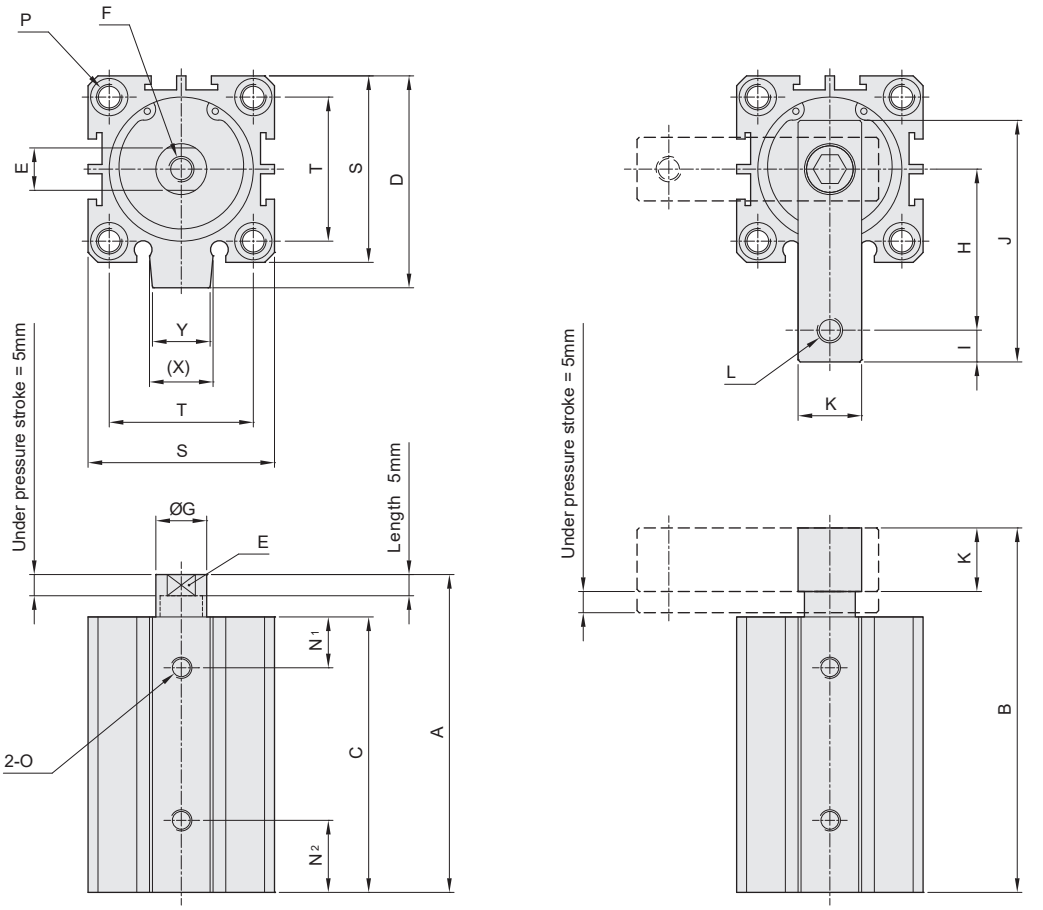
- Top mounting type



HGR(L) Ø20 ~ Ø40

HGR(L) MST

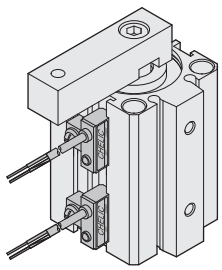
- Standard type
- With mounting holder



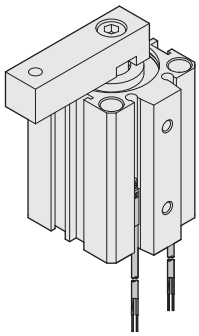
Unit: mm

Bore size	A	B	C	D	E	F	G	H	I	J	K	L	N_1	N_2
20	70	78	60	–	7	M5×0.8p×8 dp	8	30	6	45	12	M5x0.8P	11.7	11
25	70	78	60	–	8	M5×0.8p×8 dp	10	35	7	52	12	M5x0.8P	11.5	12
32	75	86	65	50	11	M6×1.0p×10 dp	12	38	7.5	57	15	M6x1.0P	12.6	17
40	80	95	70	58	14	M8×1.25p×14 dp	16	46	8	68	19	M8x1.25P	14.6	17

Bore size	O	P (Mounting hole)	S	T	X	Y
20	M5×0.8	Thru-hole Ø4.3, Thread M5×0.8×6 dp; Spot facing Ø7.5×5 dp; (Both side)	34	24	–	–
25	M5×0.8	Thru-hole Ø5.1, Thread M6×1×8 dp; Spot facing Ø8.5×6 dp;(Both side)	40	28	–	–
32	M5×0.8	Thru-hole Ø5.1, Thread M6×1×8 dp; Spot facing Ø8.5×6 dp; (Both side)	44	34	15	13.6
40	PT 1/8	Thru-hole Ø6.8, Thread M8×1.25×10 dp; Spot facing Ø10.5×8 dp; (Both side)	52	40	15	13.6



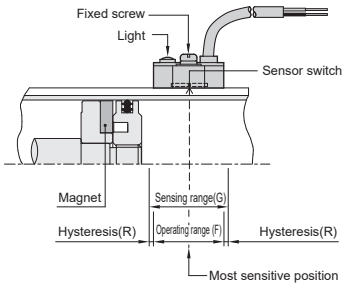
CS-30E Installation



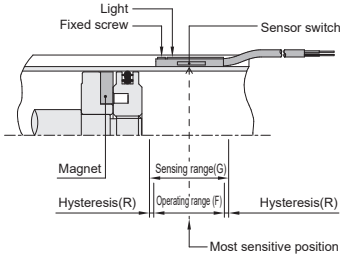
CS-9D(B) Installation

Sensor switch setting and operating range

CS - 30E



CS - 9D(B)



Sensing range

Sensor switch is fixed on the cylinder body. The magnetic piston head will activate the sensor switch when it enters the operating range. It has 0.5mm differential.

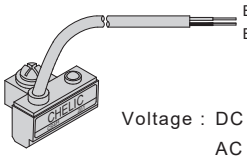
Operating range

When piston head moves the switch setting and adjustment will be based on the responding range generated by the magnetic field and the switch. (Please refer to the right table)

Model	CS-30E		CS-9D(B)	
Bore size	Operating range (F)	Hysteresis(R)	Operating range (F)	Hysteresis(R)
Ø20	9	1	8	1
Ø25	11	1	9	1
Ø32	8.5	1	7	1
Ø40	11	1	8	1

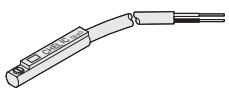
Sensor switch introduction

CS-30E



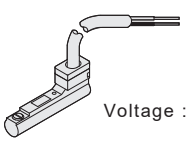
Voltage : DC 5~240V
AC 5~240V

CS-9D



Voltage : DC 5~120V
AC 5~120V

CS-9B



Voltage : DC 5~120V
AC 5~120V