

# CLHW

## Air Sensing Swing Clamp



### FEATURES

The CLHW series utilizes air sensing mechanisms by detecting the differential pressure to achieve action confirmation, allowing safe and efficient loading/unloading of the workpiece. With the integration of the built-in sensor valves, the CLHW series has taken a new and improved compact design and is most suitable for achieving automation.

Max. operating pressure : 70 kgf/cm<sup>2</sup>  
 Min. operating pressure : 15 kgf/cm<sup>2</sup>

### NOTE

The speed of clamping and unclamping action needs to be slowed down appropriately. Action confirmation can be conducted by detecting differential pressure with the air sensor. Please keep clearance of the air exhaust hole to prevent the intrusion of coolant and chips. Make sure to supply constant air pressure to the air port when in use.

### ORDERING INDICATION

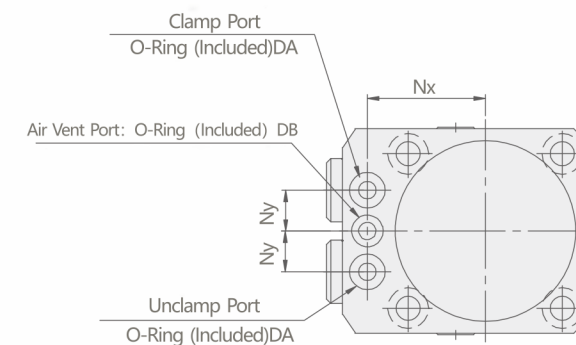
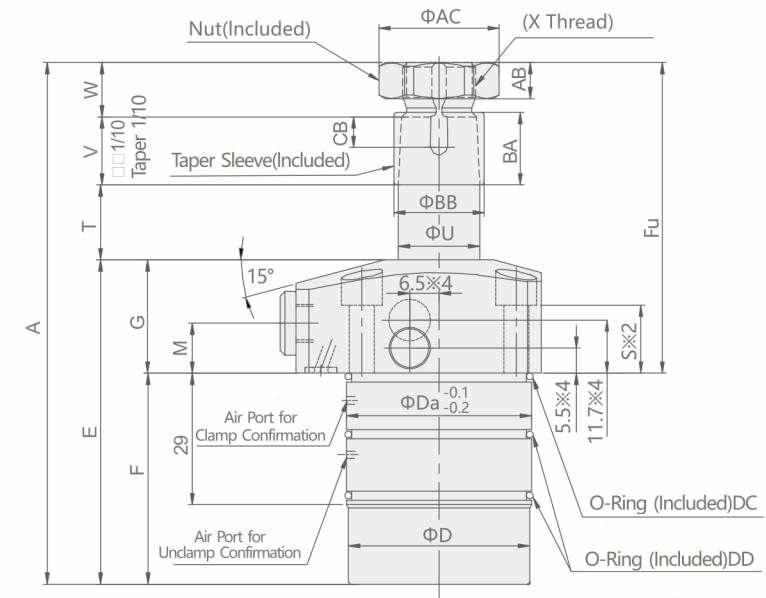
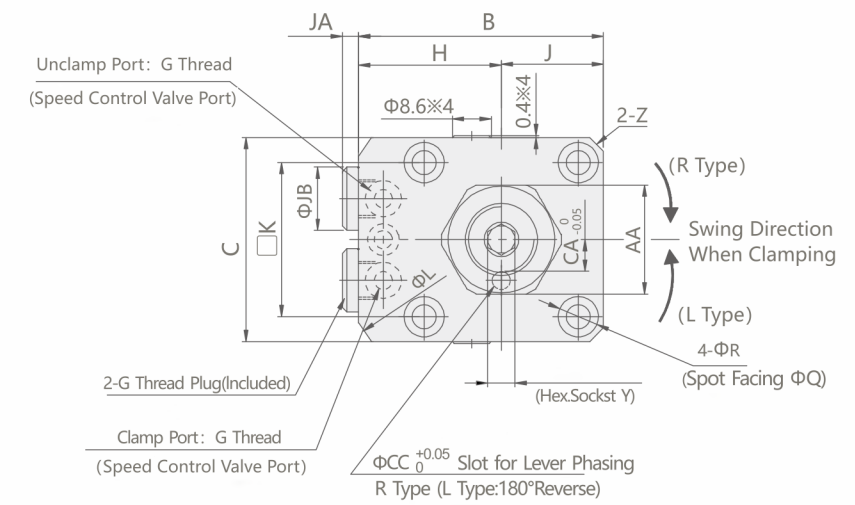
#### CLHW-048CRE

CLHW	Series	CLHW
048	Body size	040: ΦD=40mm    065: ΦD=65mm 048: ΦD=48mm    075: ΦD=75mm    Outer diameter (ΦD) of the cylinder 055: ΦD=55mm
C	Gasket Option(With G Thread Plug)	With G Thread Plug (able to attach Speed Control Valve) (Order the valve separately Recommended:CZL)
R	Swing Direction when Clamping	
E	Sensing Valve	E: Clamp-Unclamp Confirmation(Both) H: Clamp Confirmation Only J:Unclamp Confirmation Only

Note: Recommended Operating Air Pressure 01~0.2MPa. Air Sensor: ISA2-HE45N(SMC)

### CLAMP-UNCLAMP CONFIRMATION

The drawing shows the unclamped state of CLHW-CRE



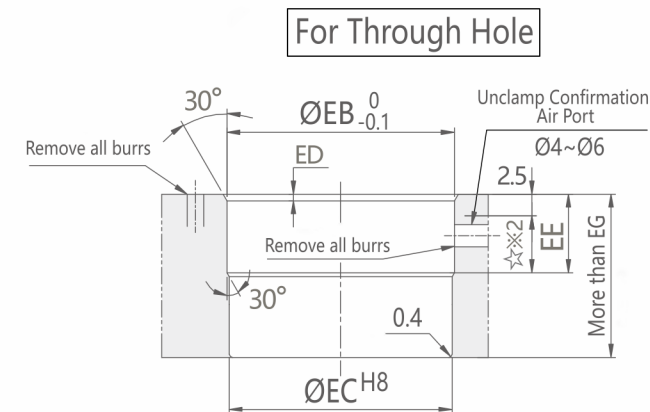
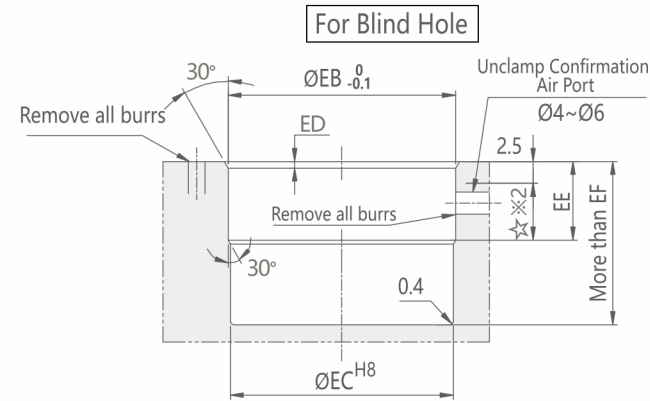
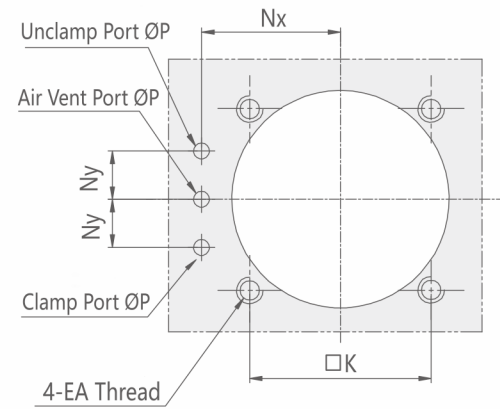
### NOTE

- ※1.The slot for lever phasing faces the port side when clamped.
- ※2.Mounting bolts are not provided . Please prepare them according to the mounting height referring to dimension"S".
- ※3. Speed control valve is sold separately.
- ※4. The valve of CLHW-040 is protruded as shown in the drawing.





MACHINING DIMENSIONS OF MOUNTING AREA



Unit:mm

MODEL ITEM	CLHW-040C□J	CLHW-048C□J	CLHW-055C□J	CLHW-065C□J	CLHW-075C□J
A	115	128.5	145.5	156	181
B	54	61	69	81	92
C	45	51	60	70	80
D	40	48	55	65	75
E	71.5	79	89	94	109
F	46.5	51	59	63	71
Fu	68.5	77.5	86.5	93	110
G	25	28	30	31	38
H	31.5	35.5	39	46	52
J	22.5	25.5	30	35	40
K	34	40	47	55	63
L	73	83	88	106	116
M	11	13	12	13	16
Nx	26	30	33.5	39.5	45
Ny	9	11	12	15	16
P	3	3	3	5	5
Q	9	9	11	11	14
R	5.5	5.5	6.8	6.8	9
S	15	17.5	17	17	21
T	16.5	17.5	20.5	22	26
U	18	22	25	30	35.5
V	15	18	21	24	30
W	12	14	15	16	16
X	M16x1.5	M20x1.5	M22x1.5	M27x1.5	M30x1.5
Y	6	8	8	10	10
Z	C3	C3	C3	C4	C5
AA	24	30	32	41	46
AB	8	9	10	11	11
AC	26.5	33	35.5	45	50
BA	16	19	22	25	31
BB	20	25	28	34	40
CA	7	9	10	12.5	14
CB	6.5	7.5	9.5	11.5	12.5
CC	4	5	6	6	8
EA	M5x0.8	M5x0.8	M6	M6	M8
EB	40.8	49	56	66	76
EC	40 <sup>+0.04</sup> <sub>0</sub>	48 <sup>+0.04</sup> <sub>0</sub>	55 <sup>+0.04</sup> <sub>0</sub>	65 <sup>+0.04</sup> <sub>0</sub>	75 <sup>+0.04</sup> <sub>0</sub>
ED	1.2	1.2	1.5	1.5	1.5
EE	20	20	24	24	34
EF	47	51.5	59.5	63.5	71.5
EG	26	26	30	30	40
JA	4	4	4	4.5	4.5
JB	14	14	14	19	19
Clamp Port :G Thread	G1/8	G1/8	G1/8	G1/4	G1/4
Unclamp Port :G Thread					
O-Ring	DA	1BP5	1BP5	1BP5	1BP7
	DB	AS568-007(90°)	1BP5	1BP5	1BP7
	DC	38x1.5	AS568-031(70°)	AS568-034(70°)	AS568-037(70°)
	DD	AS568-028(70°)	AS568-031(70°)	AS568-033(70°)	AS568-036(70°)

NOTE

- ※1. EA tapping depth of the mounting bolt should be decided according to the mounting height referring to dimensions“S”.
- ※2. Provide the air port for unclamp confirmation within the part ※.