

Square cylinder connecting rod clamp without cushion block

**Model Representation**

HBLU①-② (Example: HBLU06-F)

① Dimensions (refer to specification sheet)

② Clamping arm installation direction

HBLU

02  
04  
06  
10  
16  
25

L: left      L: left      F: forward      R: right

F: forward

R: right

**Specification**

Model		HBLU02	HBLU04	HBLU06	HBLU10	HBLU16	HBLU25	
Cylinder capacity (when oil pressure is 7MPa)	(kN)	3.4	5.0	6.7	10.6	17.2	26.9	
Clamping force (when oil pressure is 7MPa) ※1	(kN)	2.6	3.5	4.4	7.3	12.1	18.2	
Length of standard clamping arm (LH)	(mm)	36.5	42	50	56.5	69.5	87.5	
Bore of cylinder	(mm)	25	30	35	44	56	70	
Diameter of main rod	(mm)	12	14	14	16	22.4	28	
Cylinder area (clamping)	(cm <sup>2</sup> )	4.9	7.1	9.6	15.2	24.6	38.5	
Full stroke	(mm)	20.5	23.5	26	29.5	36	45	
Clamping stroke	(mm)	17.5	20.5	23	26.5	33	42	
Stroke margin	(mm)	3	3	3	3	3	3	
Maximum flow	(L/min)	1.0	1.6	2.6	4.7	9.5	18.9	
Cylinder capacity	Clamping	(cm <sup>3</sup> )	10.0	16.7	25.0	44.8	88.6	173.3
	Release	(cm <sup>3</sup> )	7.7	13.0	21.0	38.9	74.5	145.5
Mass	(kg)	1.0	1.4	1.9	3.2	5.3	9.7	
Recommended tightening torque for installation bolts ※2	(N m)	7	7	11	25	49	60	

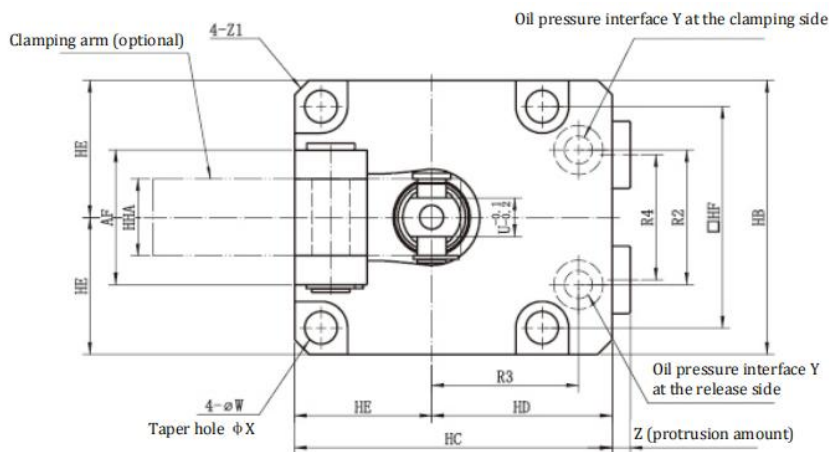
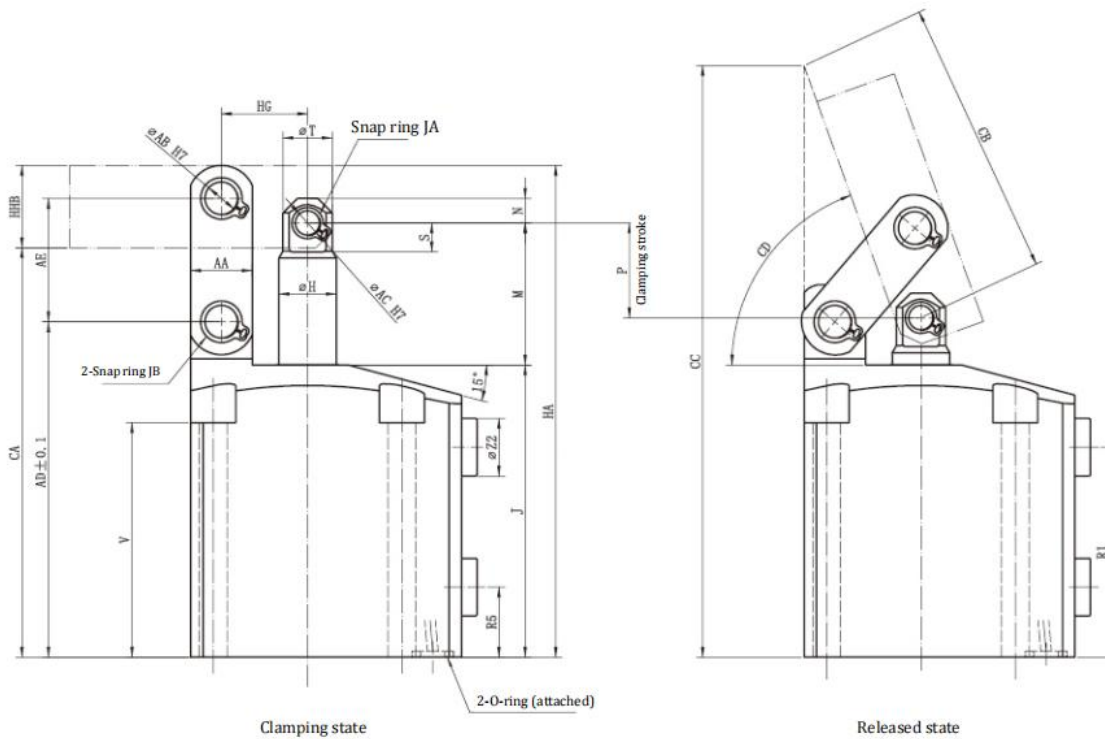
Operating oil pressure range: 1 to 7MPa      Guaranteed pressure resistance: 10.5MPa      Operating ambient temperature: 0-70°C

Operating fluid: ordinary mineral oil-based hydraulic oil (equivalent to ISO-VG32)

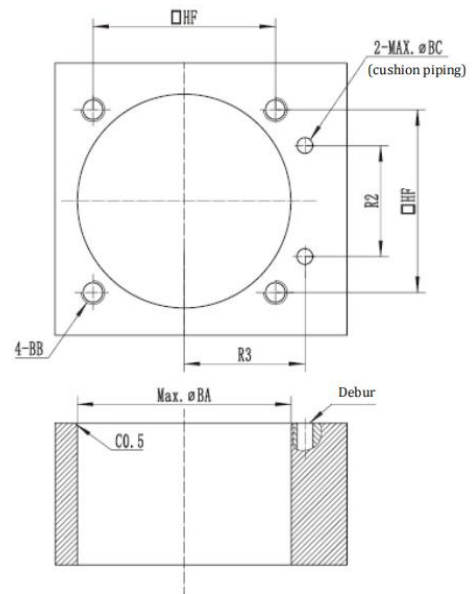
※ 1: It indicates the clamping force when installing the standard clamping arm. The clamping force varies with the length of the clamping arm.

※ 2: The strength grade of the installation bolt is 12.9.

Overall Dimension



Installation Hole Processing Drawing



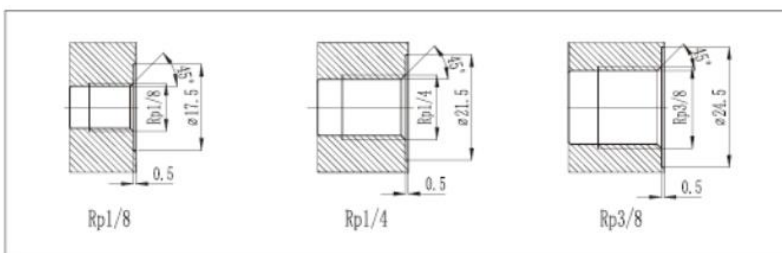
Note 1. The figure above shows the outline of type HBLU□-F. The dimensions of type HBLU□-L and HBLU□-R are the same as those of type HBLU□-F except that the installation direction of the clamping arm is different.

2. The maximum surface roughness of the installation surface shall be processed below Rz6.3.

3. Installation bolts are not attached.

Overall Dimension

Model	HBLU02 <sup>L</sup> <sub>F</sub> <sup>R</sup>	HBLU04 <sup>L</sup> <sub>F</sub> <sup>R</sup>	HBLU06 <sup>L</sup> <sub>F</sub> <sup>R</sup>	HBLU10 <sup>L</sup> <sub>F</sub> <sup>R</sup>	HBLU16 <sup>L</sup> <sub>F</sub> <sup>R</sup>	HBLU25 <sup>L</sup> <sub>F</sub> <sup>R</sup>
HA	97.1	108.1	119.6	140.1	166.1	199.1
HB	45	50	57	70	86	108
HC	55	60	66	82	96	120
HD	32.5	35	37.5	47	53	66
HE	22.5	25	28.5	35	43	54
HF	35.1	40.1	46.1	56.1	68.1	88.1
H	12 f7	14 f7	14 f7	16 f7	22.4 f7	28 f7
J	60	66	71	83	95	112
M	28.5	32	34.5	40	49	61.5
N	5.5	6	6	8	11	13
P	17.5	20.5	23	26.5	33	42
R1	42	48	51	56.5	64.5	80.5
R2	22	24	28	36	45	50
R3	25	28	30.5	36	42	57
R4	20	22	26	30	38	50
R5	16	17	17	22	23	28
S	6.5	7	7	9	10.8	14.5
T	10	12	12	14	20	26
U #1	6	6	8	10	11	16
V	49	54	57	66	73.5	83
W	5.5	5.5	6.8	9	11	14
X	9.5	9.5	11	14	17.5	20
Y	Rp1/8	Rp1/8	Rp1/8	Rp1/4	Rp1/4	Rp3/8
Z	3.8	3.8	3.8	4.8	4.8	4.8
Z1	C3	C3	C3	C4	C6	C6.5
Z2	14	14	14	19	19	22
O-ring	6.8×1.9	6.8×1.9	6.8×1.9	7.8×1.9	7.8×1.9	9.8×1.9
AA	11	13	15	19	25	32
AB	6 <sup>+0.012</sup> <sub>0</sub>	6 <sup>+0.012</sup> <sub>0</sub>	8 <sup>+0.015</sup> <sub>0</sub>	10 <sup>+0.015</sup> <sub>0</sub>	14 <sup>+0.018</sup> <sub>0</sub>	16 <sup>+0.018</sup> <sub>0</sub>
AC	6 <sup>+0.012</sup> <sub>0</sub>	6 <sup>+0.012</sup> <sub>0</sub>	6 <sup>+0.012</sup> <sub>0</sub>	8 <sup>+0.015</sup> <sub>0</sub>	12 <sup>+0.018</sup> <sub>0</sub>	14 <sup>+0.018</sup> <sub>0</sub>
AD	67.5	75.5	81.5	95	109.5	130
AE	24	26	30	35.5	44	53
AF	21	21	28	37	46	56
BB	M5	M5	M6	M8	M10	M12
BC	4	4	4	6	6	8
CA	83	92	99.5	115	135	161
CB	48.0	59.6	67.3	78.7	98.2	133.5
CC	113.7	132	143.8	167.4	199.7	254.2
CD	About 69°	About 71°	About 70°	About 70°	About 69°	About 72°
HHA	12	12	16	19	22	32
HHB	14	16	20	25	31	38
HG	16.5	18.5	21	24.5	30.5	37.5
JA	STW-6	STW-6	STW-6	STW-8	STW-12	STW-14
JB	STW-6	STW-6	STW-8	STW-10	STW-14	STW-16



※ 1: It indicates the width of the opposite side of the front end of the piston rod.