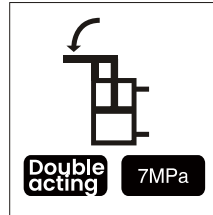
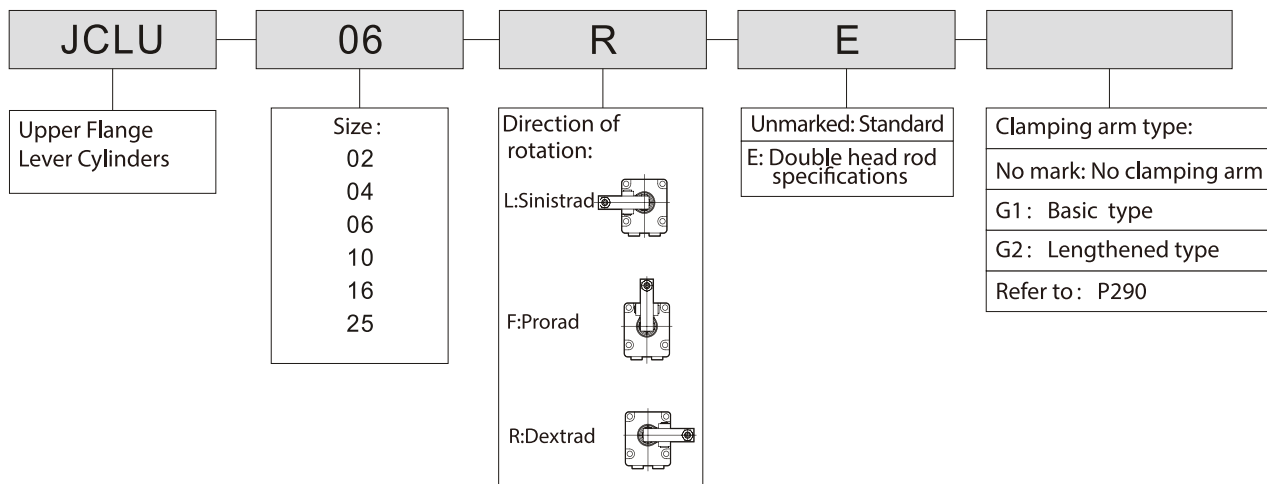


JCLU UPPER FLANGE
LEVER CYLINDERS

High cost performance linkage clamp with compact structure, large capacity and strong durability

ORDER INDICATION



FEATURE

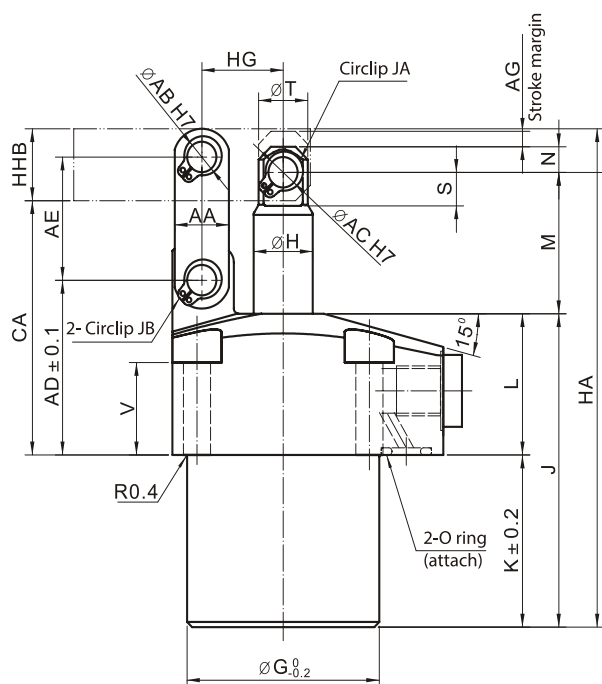
Model		JCLU02	JCLU04	JCLU06	JCLU10	JCLU16	JCLU25
Cylinder capacity (The oil pressure is 7MPa) (kN)		3.4	5.0	6.7	10.6	17.2	26.9
Clamping force※1 The oil pressure is 7MPa (kN)		2.6	3.5	4.4	7.3	12.1	18.2
Standard clamping arm length (LH) (mm)		36.5	42	50	56.5	69.5	87.5
The bore of the cylinder (mm)		25	30	35	44	56	70
Main rod diameter (mm)		12	14	14	16	22.4	28
Cylinder area (clamping) (cm ²)		4.9	7.1	9.6	15.2	24.6	38.5
Total 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 discharge (R/min)		1.0	1.6	2.6	4.7	9.5	18.9
Capacity	Clamping (cm ³)	10.0	16.7	25.0	44.8	88.6	173.3
	Releasing (cm ³)	7.7	13.0	21.0	38.9	74.5	145.5
Weight (kg)		0.7	1.0	1.4	2.3	4.0	7.4

Use hydraulic range:1-7MPa Guaranteed pressure resistance:10.5MPa Ambient temperature:0-70 °C
Fluid used: Common mineral oil based hydraulic oil (Amount toISO-VG32)

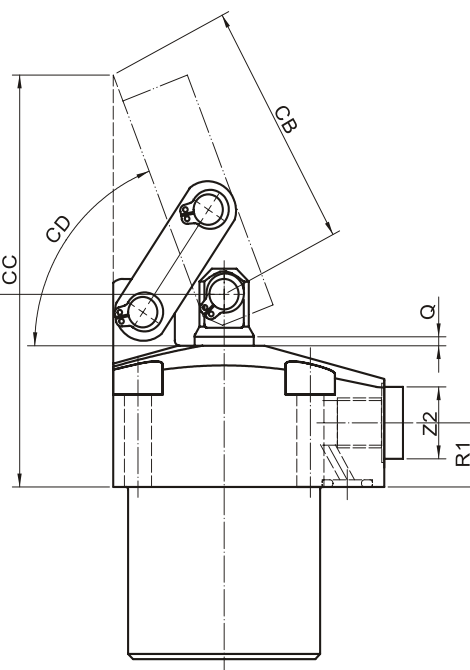
※1: Indicates the clamping force when installing the standard clamping arm.

The clamping force varies with the length of the clamping arm.

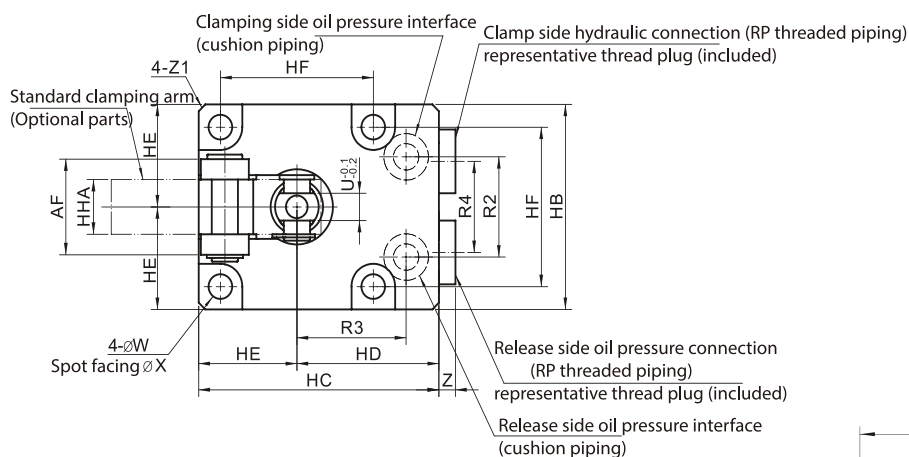
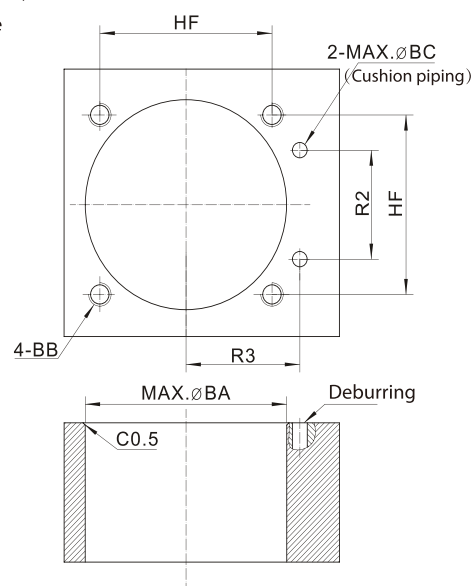
● JCLU:Basic

EXTERNAL DIMENSIONS

Clamping condition



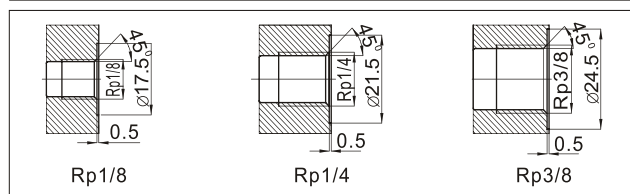
Relaxed state

**INSTALLATION
PROCESSING DIMENSION**Tie-rod
Hydraulic
CylinderMold
Hydraulic
CylindersSwivel &
Clamp
Hydraulic
CylindersBooster
Cylinders
&
Unclamping
cylindersISO
Specifications
CylindersRound
Hydraulic
CylindersSpecific
Hydraulic
CylindersSystems
&
Fittings

EXTERNAL DIMENSIONS

(mm)

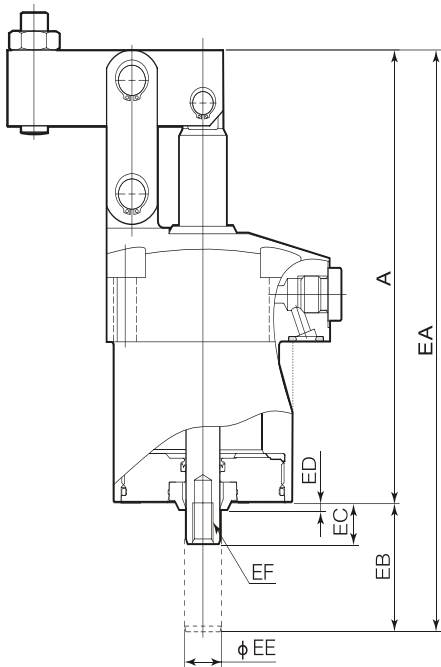
Model	JCLU02- $\frac{L}{F}$ $\frac{L}{R}$	JCLU04- $\frac{L}{F}$ $\frac{L}{R}$	JCLU06- $\frac{L}{F}$ $\frac{L}{R}$	JCLU10- $\frac{L}{F}$ $\frac{L}{R}$	JCLU16- $\frac{L}{F}$ $\frac{L}{R}$	JCLU25- $\frac{L}{F}$ $\frac{L}{R}$
HA	97.1	108.1	119.6	140.1	166.1	199.1
HB	45	50	57	70	86	108
HC	55	60	66	82	96	120
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
G	39	47	53	63	78	100
H	12 f7	14 f7	14 f7	16 f7	22.4 f7	28 f7
J	60	66	71	83	95	112
K	33.5	39.5	42.5	47	55	65
L	26.5	26.5	28.5	36	40	47
M	28.5	32	34.5	40	49	61.5
N	5	6	6	8	11	13
P	17.5	20.5	23	26.5	33	42
Q	2	2	2	2	2.5	2.5
R1	12.5	12.5	12.5	14	14	21
R2	22	24	28	36	45	50
R3	25	28	30.5	36	42	57
R4	20	22	26	30	38	50
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	18	17	17	20	20	20
W	5.5	5.5	6.8	9	11	14
X	10	10	12	15	18.5	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	C1.5	C2.5	C2.5	C3	C3.5	C5.5
Z2	14	14	14	19	19	22
○-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 $^{+0.012}_0$	6 $^{+0.012}_0$	8 $^{+0.015}_0$	10 $^{+0.015}_0$	14 $^{+0.018}_0$	16 $^{+0.018}_0$
AC	6 $^{+0.012}_0$	6 $^{+0.012}_0$	6 $^{+0.012}_0$	8 $^{+0.015}_0$	12 $^{+0.018}_0$	14 $^{+0.018}_0$
AD	34	36	39	48	54.5	65
AE	24	26	30	35.5	44	53
AF	21	21	28	37	46	56
AG	3	3	3	3	3	3
BA	40	48	54	64	79	101
BB	M5	M5	M6	M8	M10	M12
BC	4	4	4	6	6	8
CA	49.5	52.5	57	68	80	96
CB	48.0	59.6	67.3	78.7	98.2	133.5
CC	80.2	92.5	101.3	120.4	144.7	189.2
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
HK	20	23.5	29	32	39	50
HL	6	6	8	10	11	15
JA ※3	STW-6	STW-6	STW-6	STW-8	STW-12	STW-14
JB ※3	STW-6	STW-6	STW-8	STW-10	STW-14	STW-16



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

JCLU:E:Double head rod specifications

EXTERNAL DIMENSIONS



(mm)						
Model	JCLU02- ^L _R - ^E _A	JCLU04- ^L _R - ^E _A	JCLU06- ^L _R - ^E _A	JCLU10- ^L _R - ^E _A	JCLU16- ^L _R - ^E _A	JCLU25- ^L _R - ^E _A
Capacity (clamp)	9.0 cm ³	14.8 cm ³	22.9 cm ³	41.6 cm ³	84.6 cm ³	164.3 cm ³
A	97	108	119.5	140	166	199
EA	125.5	139.5	153.5	177.5	210	252
EB	28.5	31.5	34	37.5	44	53
EC	11	11	11	11	11	11
ED	2	2	2	2	2	2
EE	8	10	10	12	12	16
EF	M5 × 0.8 Deep 8	M6 × 1 Deep 11	M6 × 1 Deep 11	M8 × 1.25 Deep 15	M8 × 1.25 Deep 15	M10 × 1.5 Deep 18
Weight	0.7 kg	1.0 kg	1.4 kg	2.4 kg	4.0 kg	7.4 kg

CLAMPING CAPACITY

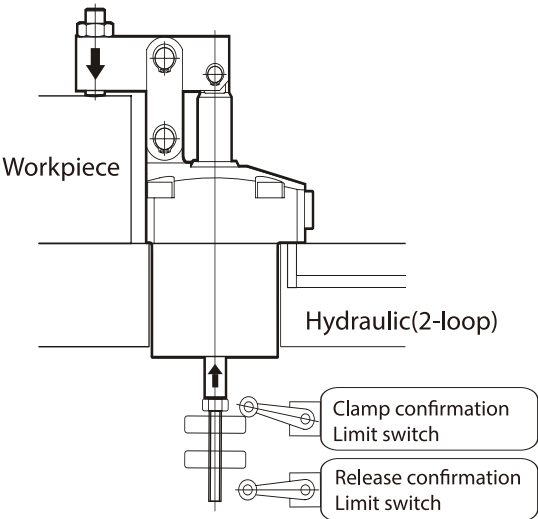
Compared with the standard specification, the double head rod specification is due to the larger clamping side cylinder areaSmall, so the clamping force is slightly reduced.

Calculation example
The JCLU10-FE or JCLU10-FA models have an hydraulic of 7.0 Mpa and a clamping arm lengthAt 60 mm,
Standard JCLU10-F clamping force: 6.6kN JCLU10-FE or JCLU10-FA clamping force: 6.6x0.93= 6.1kN

Model	JCLU02- ^L _R - ^E _A	JCLU04- ^L _R - ^E _A	JCLU06- ^L _R - ^E _A	JCLU10- ^L _R - ^E _A	JCLU16- ^L _R - ^E _A	JCLU25- ^L _R - ^E _A
Clamping capacity coefficient	0.90	0.89	0.92	0.93	0.95	0.95
Cylinder area (clamping)	4.4 cm ²	6.3 cm ²	8.8 cm ²	14.1 cm ²	23.5 cm ²	36.5 cm ²
Cylinder capacity (when oil pressure is 7MPa)	3.1 kN	4.4 kN	6.2 kN	9.9 kN	16.4 kN	25.5 kN
Clamping force (when oil pressure is 7MPa)※ 1	2.3 kN	3.1 kN	4.0 kN	6.8 kN	11.5 kN	17.2 kN

※ 1: Indicates the clamping force when installing the standard clamping arm.

USE CASE



Tie-rod Hydraulic Cylinder

Mold Hydraulic Cylinders

Swivel & Clamp Hydraulic Cylinders

Booster Cylinders & Unclamping cylinders

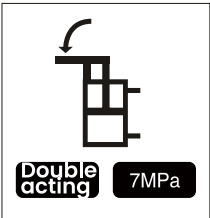
ISO Specifications Cylinders

Round Hydraulic Cylinders

Specific Hydraulic Cylinders

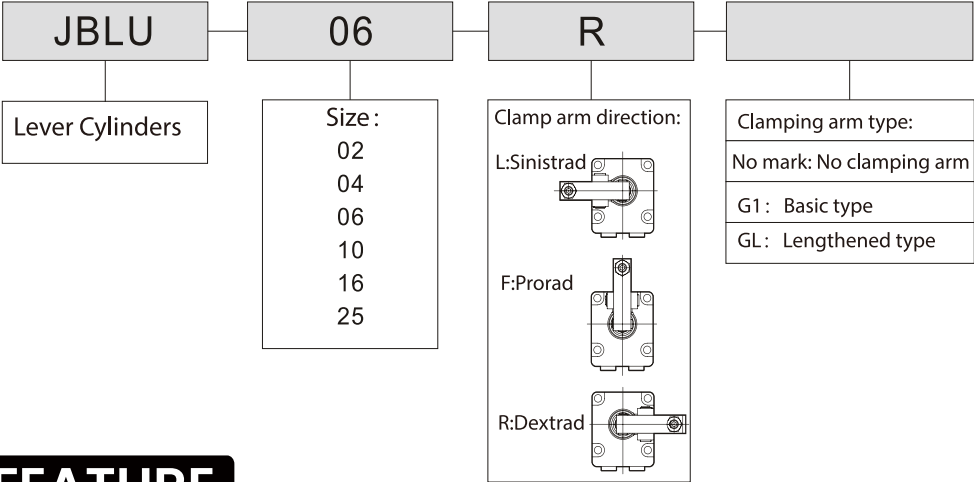
Systems & Fittings

JBLU LEVER CYLINDERS



Square cylinder type connecting rod clamp without pad

ORDER INDICATION



FEATURE

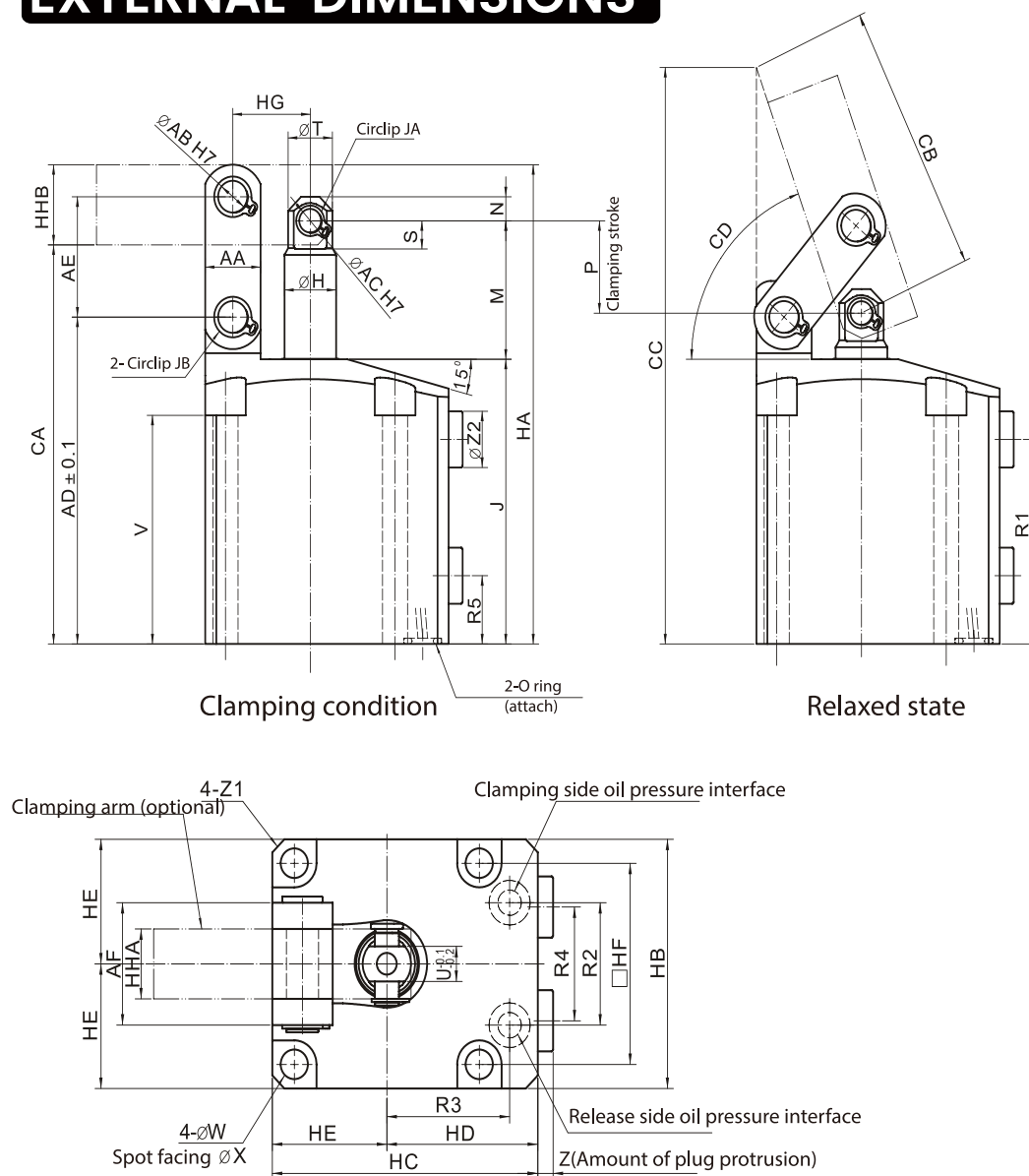
Model		JBLU02	JBLU04	JBLU06	JBLU10	JBLU16	JBLU25
Cylinder capacity (The oil pressure is 7MPa (kN)		3.4	5.0	6.7	10.6	17.2	26.9
Clamping force (when oil pressure is 7MPa)※1 (kN)		2.6	3.5	4.4	7.3	12.1	18.2
Standard clamping arm length (LH)	(mm)	36.5	42	50	56.5	69.5	87.5
The bore of the cylinder	(mm)	25	30	35	44	56	70
Main rod diameter	(mm)	12	14	14	16	22.4	28
Cylinder area (clamping)	(cm ²)	4.9	7.1	9.6	15.2	24.6	38.5
Total 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 discharge	(L/min)	1.0	1.6	2.6	4.7	9.5	18.9
Capacity	Clamping	(cm ³)	10.0	16.7	25.0	44.8	173.3
	Releasing	(cm ³)	7.7	13.0	21.0	38.9	145.5
Weight	(kg)	1.0	1.4	1.9	3.2	5.3	9.7
Recommended tightening torque for mounting bolts※2	(N・m)	7	7	11	25	49	60

Use hydraulic range:1-7MPa Guarantee withstand voltage:10.5MPa Operating ambient temperature:0-70 C
Fluid used: Common mineral oil based hydraulic oil (equivalent to ISO-VG32)

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

※2: The strength class of the mounting bolt is 12.9.

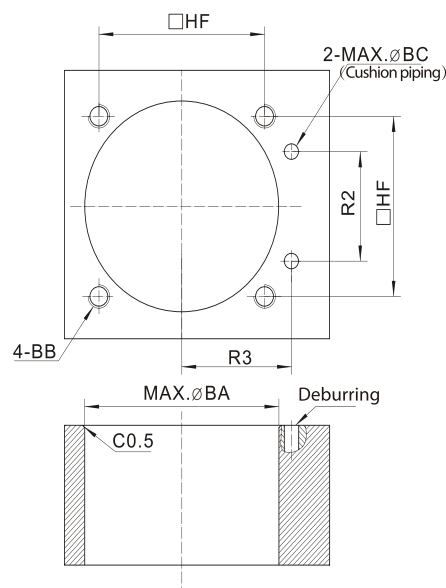
EXTERNAL DIMENSIONS



INSTALLATION PROCESSING DIMENSION

Note1. The figure above shows the appearance of the JBLU□-F model. JBLU□-L and JBLU□-R have the same dimensions as JBLU□-F except that the clamping arm is installed in different directions.

2. The maximum surface roughness of the mounting surface should be machined below Rz6.3.
3. No mounting bolts are attached.



Tie-rod Hydraulic Cylinder

Mold Hydraulic Cylinders

Swivel & Clamp Hydraulic Cylinders

Booster Cylinders & Unclamping cylinders

ISO
Specifications
Cylinders

Round Hydraulic Cylinders

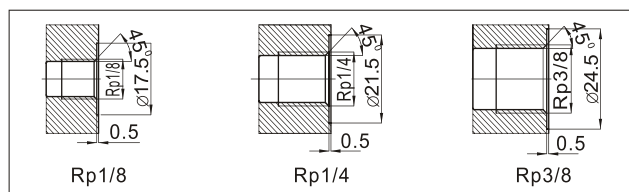
Specific Hydraulic Cylinders

Systems & Fittings

EXTERNAL DIMENSIONS

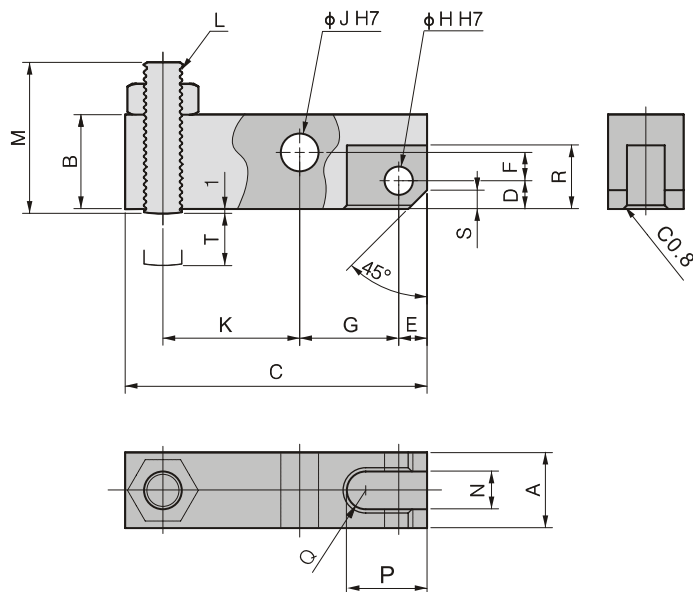
(mm)

Model	JBLU02- $\frac{L}{F}$ $\frac{R}{R}$	JBLU04- $\frac{L}{F}$ $\frac{R}{R}$	JBLU06- $\frac{L}{F}$ $\frac{R}{R}$	JBLU10- $\frac{L}{F}$ $\frac{R}{R}$	JBLU16- $\frac{L}{F}$ $\frac{R}{R}$	JBLU25- $\frac{L}{F}$ $\frac{R}{R}$
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	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
○-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 $^{+0.012}_0$	6 $^{+0.012}_0$	8 $^{+0.015}_0$	10 $^{+0.015}_0$	14 $^{+0.018}_0$	16 $^{+0.018}_0$
AC	6 $^{+0.012}_0$	6 $^{+0.012}_0$	6 $^{+0.012}_0$	8 $^{+0.015}_0$	12 $^{+0.018}_0$	14 $^{+0.018}_0$
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
HK	20	23.5	29	32	39	50
HL	6	6	8	10	11	15
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: Indicates the opposite side width of the front end of the piston rod square hydraulic lever cylinder.

STANDARD CLAMPING ARM G1



Tie-rod
Hydraulic
Cylinder

Mold
Hydraulic
Cylinders

Swivel &
Clamp
Hydraulic
Cylinders

Booster
Cylinders
&
Unclamping
cylinders

ISO
Specifications
Cylinders

Round
Hydraulic
Cylinders

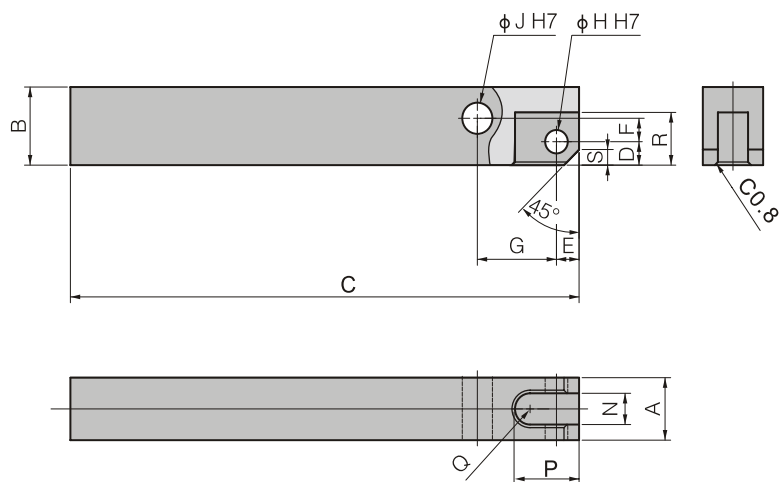
Specific
Hydraulic
Cylinders

Systems
&
Fittings

(mm)

Appli cable model	JBLU02	JBLU04	JBLU06	JBLU10	JBLU16	JBLU25
Clamping arm dimensions	JCLU02	JCLU04	JCLU06	JCLU10	JCLU16	JCLU25
A	12 ⁰ _{-0.1}	12 ⁰ _{-0.1}	16 ⁰ _{-0.1}	19 ⁰ _{-0.1}	22 ⁰ _{-0.1}	32 ⁰ _{-0.1}
B	14	16	20	25	31	38
C	48	54	64	73.5	90.5	115.5
D	5.5	6	6	8	9	12.5
E	5.5	6	6	7	10	13
F	3	3.5	6	7.5	9.5	9.5
G	16.5	18.5	21	24.5	30.5	37.5
H	6 ^{+0.012} ₀	6 ^{+0.012} ₀	6 ^{+0.012} ₀	8 ^{+0.015} ₀	12 ^{+0.018} ₀	14 ^{+0.018} ₀
J	6 ^{+0.012} ₀	6 ^{+0.012} ₀	8 ^{+0.015} ₀	10 ^{+0.015} ₀	14 ^{+0.018} ₀	16 ^{+0.018} ₀
K	20	23.5	29	32	39	50
L	M6 x1	M6 x1	M8 x1.25	M10 x1.5	M12 x1.75	M16 x2
M	26	26	32	39	48	58
N	6 ^{+0.1} ₀	6 ^{+0.1} ₀	8 ^{+0.1} ₀	10 ^{+0.1} ₀	11 ^{+0.1} ₀	16 ^{+0.1} ₀
P	14	17	17	20	26.5	36
Q	R3	R3	R4	R5	R5.5	R8
R	12	13.5	13.5	17.5	22	28
S	3	4	4	5	7	8
T *	11	9	11	13	16	19
Clamping arm weight	0.06 kg	0.08 kg	0.14 kg	0.24 kg	0.41 kg	0.98 kg

EXTENDED CLAMPING ARM GL



(mm)

Appli cable model	JBLU02	JBLU04	JBLU06	JBLU10	JBLU16	JBLU25
Clamping arm dimensions	JCLU02	JCLU04	JCLU06	JCLU10	JCLU16	JCLU25
A	12 ⁰ _{-0.1}	12 ⁰ _{-0.1}	16 ⁰ _{-0.1}	19 ⁰ _{-0.1}	22 ⁰ _{-0.1}	32 ⁰ _{-0.1}
B	14	16	20	25	31	38
C	110	135	135	180	200	230
D	5.5	6	6	8	9	12.5
E	5.5	6	6	7	10	13
F	3	3.5	6	7.5	9.5	9.5
G	16.5	18.5	21	24.5	30.5	37.5
H	6 ^{+0.012} ₀	6 ^{+0.012} ₀	6 ^{+0.012} ₀	8 ^{+0.015} ₀	12 ^{+0.018} ₀	14 ^{+0.018} ₀
J	6 ^{+0.012} ₀	6 ^{+0.012} ₀	8 ^{+0.015} ₀	10 ^{+0.015} ₀	14 ^{+0.018} ₀	16 ^{+0.018} ₀
N	6 ^{+0.1} ₀	6 ^{+0.1} ₀	8 ^{+0.1} ₀	10 ^{+0.1} ₀	11 ^{+0.1} ₀	16 ^{+0.1} ₀
P	14	17	17	20	26.5	36
Q	R3	R3	R4	R5	R5.5	R8
R	12	13.5	13.5	17.5	22	28
S	3	4	4	5	7	8
Clamping arm weight	0.13 kg	0.19 kg	0.31 kg	0.62 kg	0.96 kg	1.95 kg