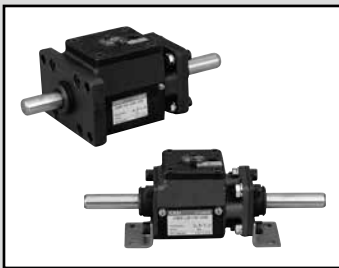


LCM
LCR
LCG
LCW
LCX
STM
STG
STS/STL
STR2
UCA2
ULK*
JSK/M2
JSG
JSC3/JSC4
USSD
UFCD
UFCD
UB
JSB3
LMB
LML
HCM
HCA
LBC
CAC4
UCAC2
CAC-N
UCAC-N
RCS2
RCC2
PCC
SHC
MCP
GLC
MFC
BBS
RRC
GRC
RV3*
NHS
HRL
LN
Hand
Chuk
MecHnd/Chuk
ShkAbs
FJ
FK
SpdContr
Ending



Brake unit JSB3 Series

● Rod diameter: $\varnothing 16/\varnothing 20/\varnothing 25/\varnothing 30/\varnothing 35/\varnothing 40/\varnothing 45$



Specifications

| Item | | JSB3 | | | | | | | | |
|---------------------------------|---------------------------------|--|--------------------|-------|--------------------|--------------------|--------------------|-------|--------------------|--------------------|
| Rod diameter code | | 16 | 20 | 20A | 25 | 30 | 35 | 35A | 40 | 45 |
| Working fluid | | Compressed air | | | | | | | | |
| Max. working pressure MPa | | 1.0 (≈150 psi, 10 bar) | | | | | | | | |
| Min. working pressure MPa | | 0.3 (≈44 psi, 3 bar) | | | | | | | | |
| Proof pressure MPa | | 1.6 (≈230 psi, 16 bar) | | | | | | | | |
| Ambient temperature °C | | -10 (14°F) to 60 (140°F) (no freezing) | | | | | | | | |
| Port size | | Rc1/8 | | Rc1/4 | | Rc3/8 | | Rc1/2 | | |
| Working rod speed mm/s | | 10 to 1000 | | | | | | | | |
| Lubrication | | Not required (use turbine oil class 1 ISO VG32 if necessary for lubrication) | | | | | | | | |
| Stopping accuracy mm | | ±1.0 (Rod speed 300 mm/s, no load) (*1) | | | | | | | | |
| Holding force N | | 980 | 1569 | 2451 | 3922 | 6178 | 9600 | 12000 | 15800 | 20000 |
| Rod diameter and tolerance mm | | $\varnothing 16f8$ | $\varnothing 20f8$ | | $\varnothing 25f8$ | $\varnothing 30f8$ | $\varnothing 35f8$ | | $\varnothing 40f8$ | $\varnothing 45f8$ |
| Rod surface roughness μmRz | | 1.2 to 1.6 | | | | | | | | |
| Weight kg | LB | 1.8 | 2.5 | 3.7 | 6.7 | 11.6 | 18.5 | 20.3 | 33.0 | 44.0 |
| | FA | 1.8 | 2.5 | 4.1 | 7.3 | 12.1 | 20.3 | 26.4 | 36.8 | 51.5 |
| | Additional weight per rod 100 m | 0.16 | 0.25 | 0.25 | 0.39 | 0.56 | 0.76 | 0.76 | 0.99 | 1.25 |

*1: The stopping accuracy diminishes if the brake valve is separated. The value above is for piping of 1 m or less.

*2: Brake valves are also available. Contact CKD for details.

How to order



A Mounting

B Rod diameter

C Rod length

*1
*2

⚠ Precautions for model No. selection

*1: Available up to 3000 mm in 1 mm increments.

*2: The rod length indicates the total length of rod.
Note that this is not the stroke length.

[Example of model No.]

JSB3-LB-16-500

Model: Brake unit

- A Mounting : Axial foot
- B Rod diameter : $\varnothing 16$ mm
- C Rod length : 500 mm

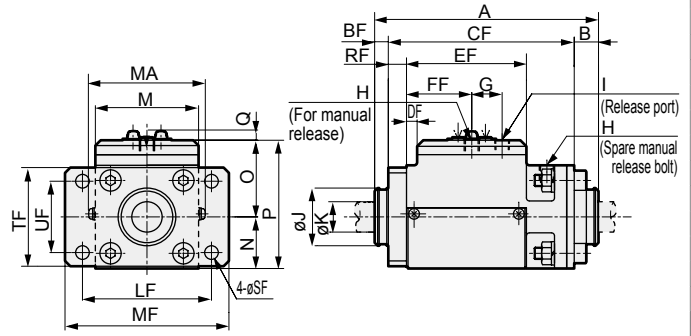
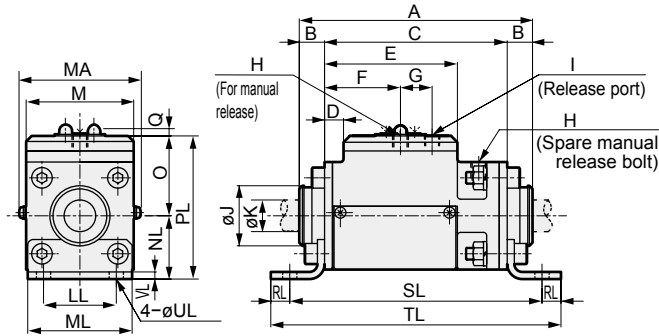
| Code | Description | | | |
|----------------------------|------------------|--|----------------------------------|----------------------------------|
| A Mounting | | | | |
| LB | Axial foot | | | |
| FA | Flange | | | |
| B Rod diameter (mm) | | | | |
| Code | Rod diameter | | | |
| 16 | $\varnothing 16$ | | | |
| 20 | $\varnothing 20$ | | | |
| 20A | $\varnothing 20$ | | | |
| 25 | $\varnothing 25$ | | | |
| 30 | $\varnothing 30$ | | | |
| 35 | $\varnothing 35$ | | | |
| 35A | $\varnothing 35$ | | | |
| 40 | $\varnothing 40$ | | | |
| 45 | $\varnothing 45$ | | | |
| C Rod length (mm) | | | | |
| | Rod diameter | $\varnothing 16, \varnothing 20, \varnothing 25$ | $\varnothing 30, \varnothing 35$ | $\varnothing 40, \varnothing 45$ |
| Blank | Not included | ● | ● | ● |
| 200 | 200 | ● | | |
| 300 | 300 | ● | ● | |
| 400 | 400 | ● | ● | ● |
| 500 | 500 | ● | ● | ● |
| 600 | 600 | ● | ● | ● |
| 700 | 700 | ● | ● | ● |
| 800 | 800 | ● | ● | ● |
| 900 | 900 | ● | ● | ● |
| 1000 | 1000 | ● | ● | ● |

Dimensions



● Axial foot (LB) $\varnothing 16$ to $\varnothing 30$

● Rod side flange (FA) $\varnothing 16$ to $\varnothing 30$

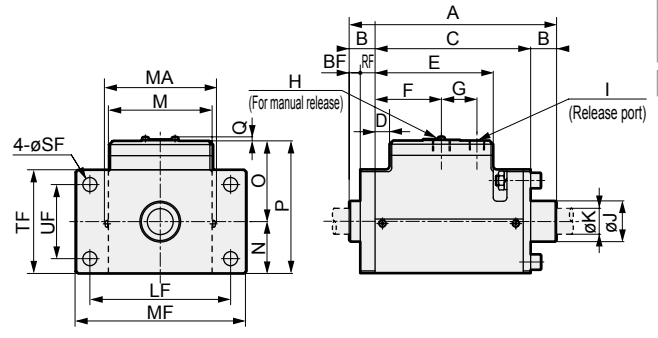
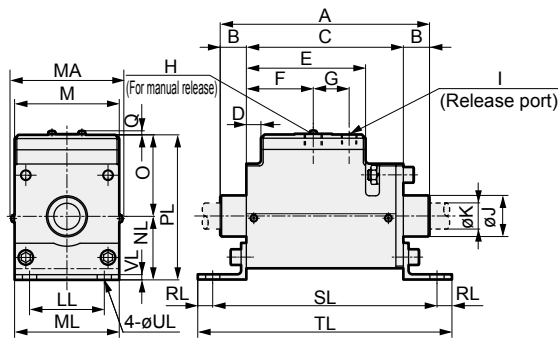


| Code | A | B | BF | C | CF | D | DF | E | EF | F | FF | G | H | I | J | K | LL | LF | |
|-------------------|-------|------|------|-------|-------|------|----|-------|-----|------|----|----|-----|-------|----|----|----|-----|--|
| Rod diameter code | | | | | | | | | | | | | | | | | | | |
| $\varnothing 16$ | 129 | 15 | 7 | 99 | 107 | 9 | 5 | 70 | 66 | 40 | 36 | 20 | M10 | Rc1/8 | 31 | 16 | 40 | 80 | |
| $\varnothing 20$ | 147.5 | 16 | 9 | 115.5 | 122.5 | 12 | 7 | 84 | 79 | 48 | 43 | 20 | M10 | Rc1/8 | 38 | 20 | 46 | 85 | |
| $\varnothing 20A$ | 164 | 16 | 8 | 132 | 140 | 13 | 5 | 99 | 91 | 56 | 48 | 27 | M12 | Rc1/4 | 38 | 20 | 60 | 106 | |
| $\varnothing 25$ | 186.5 | 17.5 | 4.5 | 151.5 | 164.5 | 13 | 7 | 119 | 113 | 66 | 60 | 27 | M14 | Rc1/4 | 43 | 25 | 74 | 125 | |
| $\varnothing 30$ | 243 | 26 | 13.5 | 191 | 203.5 | 17.5 | 11 | 149.5 | 143 | 83.5 | 77 | 35 | M16 | Rc3/8 | 51 | 30 | 80 | 144 | |

| Code | ML | MF | NL | N | O | PL | P | Q | RL | RF | SL | SF | TL | TF | UL | UF | VL | M | MA | |
|-------------------|-----|-----|----|------|------|------|------|---|----|----|-------|----|-------|-----|----|----|-----|-----|-----|--|
| Rod diameter code | | | | | | | | | | | | | | | | | | | | |
| $\varnothing 16$ | 57 | 100 | 40 | 28.5 | 46 | 86 | 74.5 | 5 | 10 | 12 | 138 | 9 | 158 | 57 | 9 | 40 | 3.2 | 57 | 66 | |
| $\varnothing 20$ | 66 | 108 | 40 | 34 | 50.5 | 90.5 | 84.5 | 5 | 12 | 12 | 159.5 | 9 | 183.5 | 65 | 9 | 47 | 4.5 | 68 | 77 | |
| $\varnothing 20A$ | 80 | 130 | 50 | 40 | 54 | 104 | 94 | 5 | 12 | 16 | 192 | 11 | 216 | 80 | 11 | 60 | 4.5 | 80 | 89 | |
| $\varnothing 25$ | 98 | 153 | 60 | 49 | 66 | 126 | 115 | 5 | 14 | 19 | 225.5 | 14 | 253.5 | 98 | 14 | 74 | 6.0 | 98 | 107 | |
| $\varnothing 30$ | 118 | 180 | 67 | 59 | 74 | 141 | 133 | 5 | 21 | 19 | 253 | 14 | 295 | 118 | 14 | 88 | 6.0 | 118 | 127 | |

● Axial foot (LB) $\varnothing 35$ to $\varnothing 45$

● Rod side flange (FA) $\varnothing 35$ to $\varnothing 45$



| Code | A | B | BF | C | D | E | F | G | H | I | J | K | LF | LL | M | MA | MF | |
|-------------------|-----|----|----|-----|------|-------|-------|----|-----|-------|------|----|-----|-----|-----|-----|-----|--|
| Rod diameter code | | | | | | | | | | | | | | | | | | |
| $\varnothing 35$ | 280 | 35 | 15 | 210 | 19.5 | 159.5 | 89.5 | 48 | M24 | Rc1/2 | 55 | 35 | 190 | 100 | 140 | 150 | 230 | |
| $\varnothing 35A$ | 296 | 35 | 15 | 226 | 18.5 | 175.5 | 97 | 50 | M24 | Rc1/2 | 55 | 35 | 212 | 112 | 157 | 167 | 250 | |
| $\varnothing 40$ | 356 | 48 | 26 | 260 | 23 | 200 | 111.5 | 58 | M24 | Rc1/2 | 62.5 | 40 | 236 | 118 | 177 | 190 | 280 | |
| $\varnothing 45$ | 385 | 53 | 28 | 279 | 14 | 214 | 114 | 70 | M24 | Rc1/2 | 68.5 | 45 | 265 | 132 | 200 | 213 | 310 | |

| Code | ML | NL | N | O | PL | P | Q | RF | RL | SL | SF | TL | TF | UL | UF | VL |
|-------------------|-----|-----|------|-------|-------|-------|---|----|----|-----|----|-----|-----|----|-----|----|
| Rod diameter code | | | | | | | | | | | | | | | | |
| $\varnothing 35$ | 140 | 85 | 70 | 109 | 194 | 179 | 5 | 20 | 20 | 300 | 19 | 340 | 140 | 19 | 100 | 7 |
| $\varnothing 35A$ | 157 | 100 | 78.5 | 116.5 | 216.5 | 195 | 5 | 20 | 20 | 326 | 19 | 366 | 157 | 19 | 112 | 8 |
| $\varnothing 40$ | 177 | 106 | 88.5 | 128 | 234 | 216.5 | 5 | 22 | 20 | 366 | 19 | 406 | 177 | 19 | 118 | 10 |
| $\varnothing 45$ | 200 | 125 | 100 | 146 | 271 | 246 | 5 | 25 | 27 | 399 | 24 | 453 | 200 | 24 | 132 | 10 |

- LCM
- LCR
- LCG
- LCW
- LCX
- STM
- STG
- STS/STL
- STR2
- UCA2
- ULK*
- JSK/M2
- JSG
- JSC3/JSC4
- USSD
- UFCD
- USC
- UB
- JSB3**
- LMB
- LML
- HCM
- HCA
- LBC
- CAC4
- UCAC2
- CAC-N
- UCAC-N
- RCS2
- RCC2
- PCC
- SHC
- MCP
- GLC
- MFC
- BBS
- RRC
- GRC
- RV3*
- NHS
- HRL
- LN
- Hand
- Chuk
- MechHnd/Chuk
- ShkAbs
- FJ
- FK
- SpdContr
- Ending