

Brake unit **JSB3 Series**

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

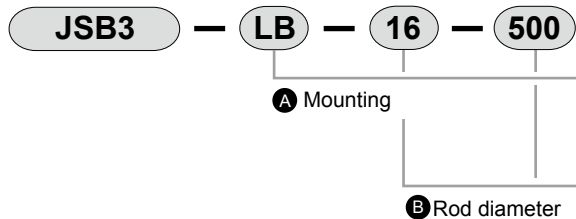


Specifications

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		ø16f8	ø20f8		ø25f8	ø30f8	ø35f8		ø40f8	ø45f8
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



⚠ 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

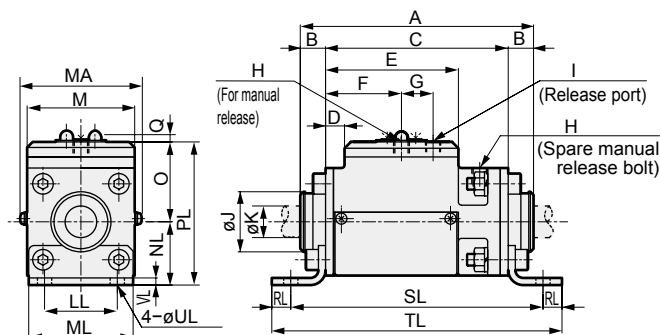
- A Mounting : Axial foot
- B Rod diameter : $\varnothing 16$ mm
- C Rod length : 500 mm

Code	Description			
A Mounting				
LB	Axial foot			
FA	Flange			
B Rod diameter (mm)				
Code	Rod diameter			
16	ø16			
20	ø20			
20A	ø20			
25	ø25			
30	ø30			
35	ø35			
35A	ø35			
40	ø40			
45	ø45			
C Rod length (mm)				
	Rod diameter	ø16, ø20, ø25	ø30, ø35	ø40, ø45
Blank	Not included	●	●	●
200	200	●		
300	300	●	●	
400	400	●	●	●
500	500	●	●	●
600	600	●	●	●
700	700	●	●	●
800	800	●	●	●
900	900	●	●	●
1000	1000	●	●	●

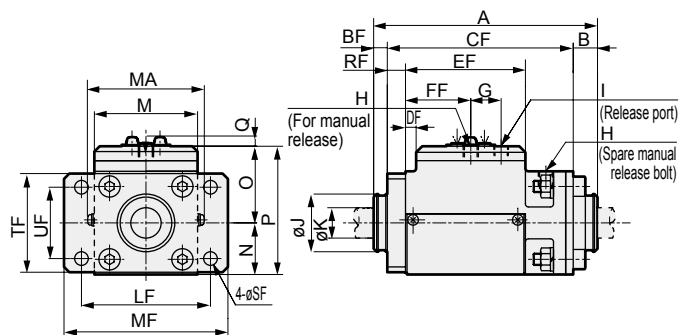
Dimensions



● Axial foot (LB) ø16 to ø30



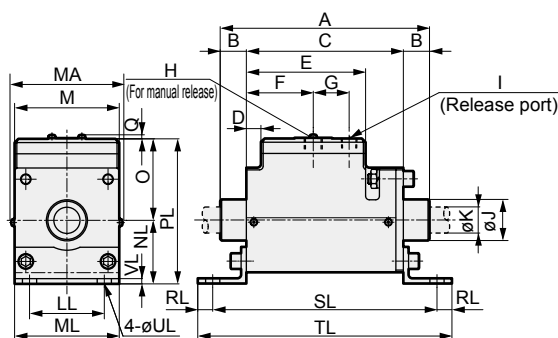
● Rod side flange (FA) ø16 to ø30



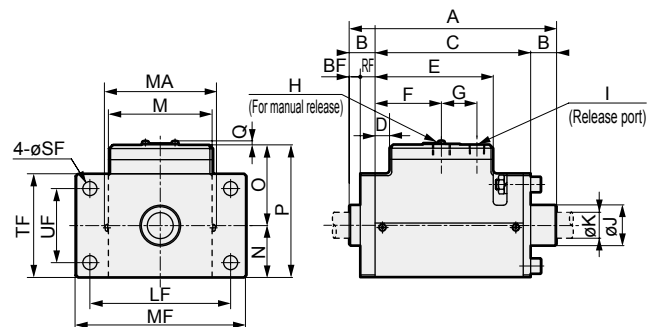
Code	A	B	BF	C	CF	D	DF	E	EF	F	FF	G	H	I	J	K	LL	LF
Rod diameter code																		
ø16	129	15	7	99	107	9	5	70	66	40	36	20	M10	Rc1/8	31	16	40	80
ø20	147.5	16	9	115.5	122.5	12	7	84	79	48	43	20	M10	Rc1/8	38	20	46	85
ø20A	164	16	8	132	140	13	5	99	91	56	48	27	M12	Rc1/4	38	20	60	106
ø25	186.5	17.5	4.5	151.5	164.5	13	7	119	113	66	60	27	M14	Rc1/4	43	25	74	125
ø30	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																			
ø16	57	100	40	28.5	46	86	74.5	5	10	12	138	9	158	57	9	40	3.2	57	66
ø20	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
ø20A	80	130	50	40	54	104	94	5	12	16	192	11	216	80	11	60	4.5	80	89
ø25	98	153	60	49	66	126	115	5	14	19	225.5	14	253.5	98	14	74	6.0	98	107
ø30	118	180	67	59	74	141	133	5	21	19	253	14	295	118	14	88	6.0	118	127

● Axial foot (LB) ø35 to ø45



● Rod side flange (FA) ø35 to ø45



Code	A	B	BF	C	D	E	F	G	H	I	J	K	LF	LL	M	MA	MF
Rod diameter code																	
ø35	280	35	15	210	19.5	159.5	89.5	48	M24	Rc1/2	55	35	190	100	140	150	230
ø35A	296	35	15	226	18.5	175.5	97	50	M24	Rc1/2	55	35	212	112	157	167	250
ø40	356	48	26	260	23	200	111.5	58	M24	Rc1/2	62.5	40	236	118	177	190	280
ø45	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																
ø35	140	85	70	109	194	179	5	20	20	300	19	340	140	19	100	7
ø35A	157	100	78.5	116.5	216.5	195	5	20	20	326	19	366	157	19	112	8
ø40	177	106	88.5	128	234	216.5	5	22	20	366	19	406	177	19	118	10
ø45	200	125	100	146	271	246	5	25	27	399	24	453	200	24	132	10