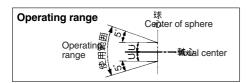


# Floating Joint: For Compact Cylinders $Series\ JB$

### **Specifications**

Operating pressure

Air pressure compact cylinder 1 MPa or less

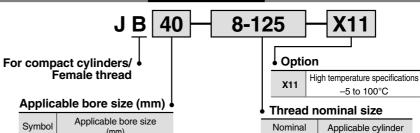




### **Specifications**

Model	Applicable bore size	Applicable cylinder nominal thread size	Maximum ope and compress	Allowable eccentricity	Rotating angle	
	(mm)		Compression side	Tension side		
JB12-3-050	12	M3 x 0.5	112	112	0.5	
JB16-4-070	16	M4 x 0.7	200	200	0.5	
JB20-5-080	20	M5 x 0.8	1100	300	0.5	
JB25-6-100	25	M6 x 1	2500	500	0.5	
JB40-8-125	32, 40	M8 x 1.25	6000	1300	0.75 1	±5°
JB63-10-150	50, 63	M10 x 1.5	11000	3100		
JB80-16-200	80	M16 x 2	18000	5000	1.25	
JB100-20-250	<b>JB100-20-250</b> 100		28000	7900	2	
JB140-22-250	125, 140	M22 x 2.5	54000	15300	2.5	
JB160-24-300	160	M24 x 3	71000	20000	3	

### **How to Order**



Symbol	Applicable bore size (mm)								
12	12								
16	16								
20	20								
25	25								
40	32, 40								
63	50, 63								
80	80								
100	100								
140	125, 140								
160	160								

thread size	nominal thread size
3-050	M3 x 0.5
4-070	M4 x 0.7
5-080	M5 x 0.8
6-100	M6 x 1
8-125	M8 x 1.25
10-150	M10 x 1.5
16-200	M16 x 2
20-250	M20 x 2.5
22-250	M22 x 2.5
24-300	M24 x 3

### **A** Precautions

Be sure to read before handling. Refer to pages 10-24-3 to 10-24-6 I for Safety Instructions and I Actuator Precautions.

### Mounting

### ⚠ Warning

1. To screw the male threads of the rod into the female threads of the socket or the case, make sure that it does not bottom out. If the floating joint is used with its rod bottomed out, the stud will not be able to float, causing damage. For the screw-in depth of the female threads, refer to the dimensions (page 10-19-11). As a rule, after the rod bottoms out, back off 1 to 2 turns.

- 2. When screwing stud or socket, or case in the driven object, make sure to screw them in the state that dust cover has been removed from the case. If screwing without removing dust cover, duct cover might be broken.
- 3. To use a floating joint to connect the cylinder rod to a driven body, secure it in place by applying a torque that is appropriate for the thread size. Also, if there is a risk of loosening during operation, take measures to prevent loosening, such as using a locking pin or thread adhesive.

In the event that the connected portion becomes loose, the driven body might lose control or fall off, leading to equipment damage or injury to personnel.

 Do not use for rotational applications, because it is not a fitting designed for rotational axis.

### **Maintenance**

### **⚠** Warning

**1.** Do not reuse if disassembled. High strength adhesive is applied to the

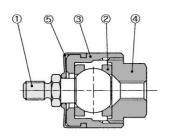
portion of the connection that is threaded to prevent it from loosening, and it must not be disassembled. If it is forcefully disassembled, it could lead to damage.



## Floating Joint: For Compact Cylinders Series JB

### Construction

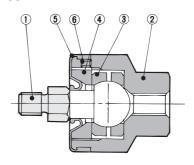
### ø12, ø16



### **Component Parts**

No.	Description	Material	Note
1	Stud	Free-cutting steel	
2	Case	Brass	
3	Ring	Carbon steel	
4	Socket	Brass	
(5)	Dust cover	Synthetic rubber	

### ø20 to ø160



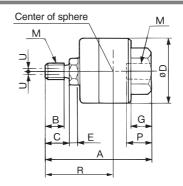
### **Component Parts**

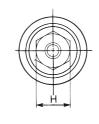
_		•		
	No.	Description	Material	Note
	1	Stud	Chromium molybdenum steel	
_	2	Case	Carbon steel	
_	3	Ring	Chromium molybdenum steel	
Ī	4	Сар	Carbon steel	
	(5)	Dust cover	Synthetic rubber	
Ξ	6	Set screw	Carbon steel	

### **Basic Style: JB**

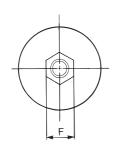
JB12, 16







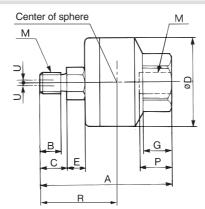
### JB20 to 160

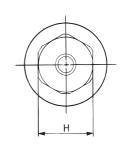


JB160-24-300

24 3

160





	Applicable bore size Model		-	/I	<b>A</b>	В	С	D	E	F	G	н	Center of sphere <b>R</b>	1	Allowable eccentricity <b>U</b>	Maximum operating tension and compression force (N)		Weight
	(mm)	size	Pitch	Compression												Tension	(kg)	
ľ	12	JB12-3-050	3	0.5	24.5	3	4	16	2	6	5	10	13	7	0.5	112	112	0.02
	16	JB16-4-070	4	0.7	26.5	4.5	6	16	2	6	5	10	15	7	0.5	200	200	0.02
	20	JB20-5-080	5	8.0	33	5	6.5	21	4.5	7	7	13	19.5	8	0.5	1100	300	0.04
	25	JB25-6-100	6	1	38	6	8	24	5	8	8	17	22.5	9	0.5	2500	500	0.07
	32, 40	JB40-8-125	8	1.25	51	8.5	11	31	6	11	11	22	29	13	0.75	6000	1300	0.15
	50, 63	JB63-10-150	10	1.5	62.5	10	13	41	7.5	14	13.5	27	35.5	15	1	11000	3100	0.29
	80	JB80-16-200	16	2	80.5	16	20	50	9.5	19	16	32	47.5	18	1.25	18000	5000	0.56
	100	JB100-20-250	20	2.5	101	21	26	59.5	11.5	24	20	41	59	24	2	28000	7900	1.04
	125, 140	JB140-22-250	22	2.5	129	18	22	79	14	30	22	46	71.5	38	2.5	54000	15300	2.6

RE A

**REC** 

C□X CUY

MQ Q

**RHC** 

MK(2)

RS G

RS<sub>A</sub> **RZQ** 

MIS

CEP1

CE<sub>1</sub>

CE2

ML2B

C<sub>G</sub>5-S

CV

MVGQ CC

**RB** 

(mm)

D-

-X

20-Data

4.5

30 22 36 24

71000

20000