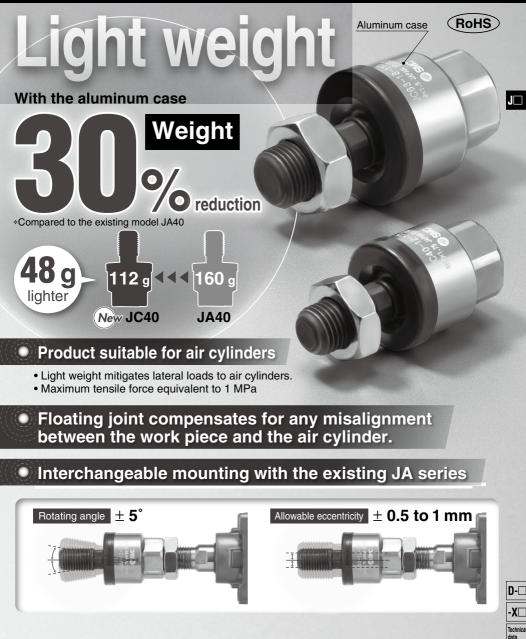
Floating Joint

Series **JC**

Standard/Light Weight Type 20, 30, 40, 63



Series Variations

Series	Cylinder supp	oly pressure	Applicable cylinder bore size (mm)	Mounting	Page
Series JC (Light weight type)	Pneumatic cylinder	1 MPa or less	20, 25, 32, 40, 50, 63	Basic style	P.1131
Series JA (Standard)	Pneumatic	0.7 MPa or less	6, 10, 15	Basic style	
	cylinder	1 MPa or less	20, 25, 30, 40, 50, 63 80, 100, 125, 140, 160	Flange style	P.1136
	Hydraulic cylinder	3.5 MPa or less	20, 25, 30, 40, 50, 63 80, 100, 125, 140, 160	Foot style	
Series JAH (Heavy load)	Hydraulic cylinder	7 MPa or less	40, 50, 63, 80, 100	Basic style Flange style Foot style	P.1141
Series JB (For compact cylinders)	Pneumatic cylinder	1 MPa or less	12, 16, 20, 25, 32 40, 50, 63, 80, 100	Basic style (Female thread)	P.1144
Series JS (Stainless steel type)	Pneumatic cylinder	1 MPa or less	10, 16, 20, 25, 32 40, 50, 63, 80, 100	Basic style	P.1146
	Hydraulic cylinder	3.5 MPa or less	20, 25, 32, 40, 50, 63		F.1140

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Floating Joint Standard/Light Weight Type Series JC

Model/Specifications



Series JC

Model	Applicable cylinder bore size (mm)	Applicable cylinder nominal thread size	Maximum operating tensile and compressive force (N) Basic style	Allowable eccentricity (Umm)	Rotating angle
Standard/Threa	ad nomina	l size			
JC20-8-125	20	M8 x 1.25	300	0.5	
JC30-10-125	25/32	M10 x 1.25	800	0.5	±5°
JC40-14-150	40	M14 x 1.5	1250	0.75	± 5
JC63-18-150	50/63	M18 x 1.5	3100	1	
Semi-standard	/Thread no	ominal size			
JC20-8-100	20	M8 x 1	300	0.5	
JC25-10-150	25	M10 x 1.5	800	0.5	
JC32-10-100	32	M10 x 1	800	0.5	
JC40-12-125	32/40	M12 x 1.25	1250	0.75	±5°
JC40-12-150	40	M12 x 1.5	1250	0.75	j ± J
JC40-12-175	32/40	M12 x 1.75	1250	0.75	
JC50-16-150	50	M16 x 1.5	3100	1	
JC63-16-200	50/63	M16 x 2	3100	1	

How to Order

JC 40 - 14-	150
Applicable cylinder bore size	Thread (Stand

Model	Symbol	Applicable cylinder bore size (mm)
ਲ 20		20
dard pe	р <u>30</u>	25/32
typ	40	40
Ś	63	50/63

Thread nominal size (Standard)

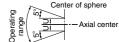
Thread nominal size	Applicable cylinder nominal thread size
8-125	M8 x 1.25
10-125	M10 x 1.25
14-150	M14 x 1.5
18-150	M18 x 1.5

RoHS

Specifications

Operating pressure	Pneumatic cylinder: 1 MPa or less
Mounting	Basic style
Operating temperature	-10 to 70°C

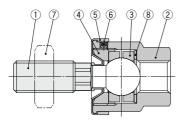
Operating range





Series JC

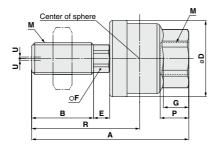
Construction

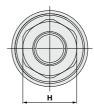


No.	Description	Material	Note		
1	Stud	Steel	Manganese phosphate		
2	Case	Aluminum	Chromated		
3	Ring	Steel			
4	Сар	Steel	Black zinc chromated		
5	Dust cover	Synthetic rubber			
6	Set screw	Steel	Zinc chromated		
7	Rod end nut	Steel	Zinc chromated		
8	Washer	Steel			

Dimensions

JC20 to 63





Standard type Pneumatic: to 1 MPa

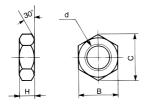
										(mm)					
Applicable cylinder	Model	Nominal size		A	в	D	E	F	G	н	Center of sphere	Maximum thread depth	eccentricity		1.0
bore size		NOTIFICAT SIZE	THOM								K	P	U	compressive force N	g
20	JC20-8-125	8	1.25	44	17.5	21	4.5	7	7	13	30.5	8	0.5	300	0.03
25, 32	JC30-10-125	10	1.25	49.5	19.5	24	5	8	8	17	34	9	0.5	800	0.05
40	JC40-14-150	14	1.5	60	20	31	6	11	11	22	38	13	0.75	1250	0.12
50, 63	JC63-18-150	18	1.5	74.5	25	41	7.5	14	13.5	27	47.5	15	1	3100	0.23

Semi-standard type Pneumatic: to 1 MPa

Semi-standa	Semi-standard type Pneumatic: to 1 MPa (mm)									(mm)					
Applicable cylinder	Model	Ν	Λ	Α	в	D	Е	F	G	н	Center	Maximum thread depth	Allowable	Maximum operating tensile and	Weight
bore size	model	Nominal size	Pitch		_	-	_		-		R	P		compressive force N	kg
20	JC20-8-100	8	1	44	17.5	21	4.5	7	7	13	30.5	8	0.5	300	0.03
25	JC25-10-150	10	1.5	49.5	19.5	24	5	8	8	17	34	9	0.5	800	0.05
32	JC32-10-100	10	1	49.5	19.5	24	5	8	8	17	34	9	0.5	800	0.05
32, 40	JC40-12-125	12	1.25	60	20	31	6	11	11	22	38	13	0.75	1250	0.11
40	JC40-12-150	12	1.5	60	20	31	6	11	11	22	38	13	0.75	1250	0.11
32, 40	JC40-12-175	12	1.75	60	20	31	6	11	11	22	38	13	0.75	1250	0.11
50	JC50-16-150	16	1.5	71.5	22	41	7.5	14	13.5	27	44.5	15	1	3100	0.22
50, 63	JC63-16-200	16	2	71.5	22	41	7.5	14	13.5	27	44.5	15	1	3100	0.22

Dimensions of Accessories

Rod end nut



					(mm)
Model	Order number	d: Thread nominal size	н	В	С
JC20-8-100	DA00207	M8 x 1	5	13	15
JC20-8-125	DA00169	M8 x 1.25	5	13	15
JC32-10-100	DA00141	M10 x 1	6	17	19.6
JC30-10-125	DA00142	M10 x 1.25	6	17	19.6
JC25-10-150	DA00140	M10 x 1.5	6	17	19.6
JC40-12-125	DA00145	M12 x 1.25	7	19	21.9
JC40-12-150	DA00146	M12 x 1.5	7	19	21.9
JC40-12-175	DA00143	M12 x 1.75	7	19	21.9
JC40-14-150	DA00148	M14 x 1.5	8	22	25.4
JC50-16-150	DA00151	M16 x 1.5	10	24	27.7
JC63-16-200	DA00150	M16 x 2	10	24	27.7
JC63-18-150	DA00153	M18 x 1.5	11	27	31.2

Spare parts

Rod end nut

The basic style has one rod end nut attached, it is possible to order additional pieces by the above order numbers.

Dust cover

When the dust cover is damaged and deteriorated, order with the part number as shown below.

Part no. for dust cover	Applicable model
P215215	JC20
P215225	JC25, JC30, JC32
P215235	JC40
P215245	JC50, JC63





Series JC Specific Product Precautions

Be sure to read before handling. Refer to front matter 57 for Safety Instructions, pages 3 to 7 for Actuator Precautions.

Mounting

AWarning

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 1132). As a rule, after the rod bottoms out, back off 1 to 2 turns.

2. The dust cover may stick to the stud. Move the dust cover at the base of the stud with fingers, or twist the stud right and left gently to free them.

And 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, dust 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.

- 4. Do not use for rotational applications, because it is not a fitting designed for rotational axis.
- 5.When a driven object is stopped, be sure to prevent the impact force of the object being transferred to the product by using the cushion mechanism of a cylinder or other cushioning devices such as a shock absorber. Otherwise, the impact force may exceed the maximum tensile and compressive force of the product.

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.