

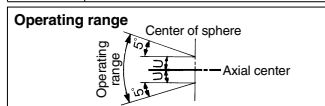
# Floating Joint: Stainless Steel Type

# Series JS

RoHS

## Specifications

Operating pressure	Pneumatic cylinder: 1 MPa or less
	Hydraulic cylinder: 3.5 MPa or less
Mounting	Basic style



Series JS

## ⚠ Precautions

**Be sure to read before handling.**  
**Refer to front matter 57 for Safety Instructions.**

## Mounting

### ⚠ Warning

- For the screw-in depth of the female threads, refer to the dimensions (page 1148).
- The dust cover may adhere to the stud. In this case, move the dust cover at the neck of the stud by the finger or twist the stud slightly left or right to break in the dust cover before use.

Additionally, when screwing the stud and socket or the case into a driven body, screw in such parts with the dust cover removed. When screwing in such parts without removing the dust cover, this may cause damage to the dust cover.

- 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.

- This product is not a rotary joint. So, the product cannot be used for rotational or rotation acting applications.

- Be sure to use the cushion mechanism of the cylinder or the buffer mechanism, such as the shock absorber so that any impact force is not applied to the floating joint when stopping a driven body. If there is no buffer mechanism, an excessive impact force is generated. As a result, the tensile compression force of the floating joint may exceed its maximum level.

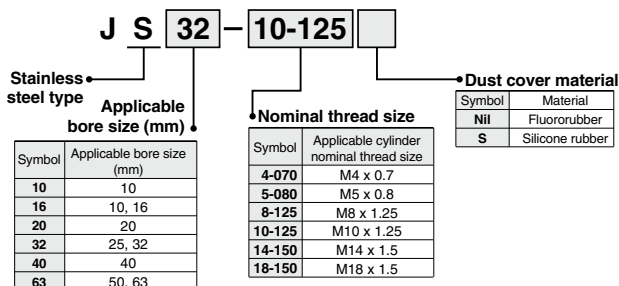
## Specifications

Model	Applicable bore size (mm) <sup>(1)</sup>	Applicable cylinder nominal thread size	Maximum operating tension and compression force (N)	Allowable eccentricity U (mm)	Operating pressure		Ambient temperature
					Air pressure cylinder	Hydraulic cylinder	
JS10-4-070	10	M4 x 0.7	80	0.5	1 MPa or less	-	-5 to 70°C
JS16-5-080	10, 16	M5 x 0.8	210	0.5			
JS20-8-125	20	M8 x 1.25	1100	0.5			
JS32-10-125	25, 32	M10 x 1.25	2500	0.5			
JS40-14-150	40	M14 x 1.5	6000	0.75			
JS63-18-150	50, 63	M18 x 1.5	11000	1	3.5 MPa <sup>(2)</sup> or less		

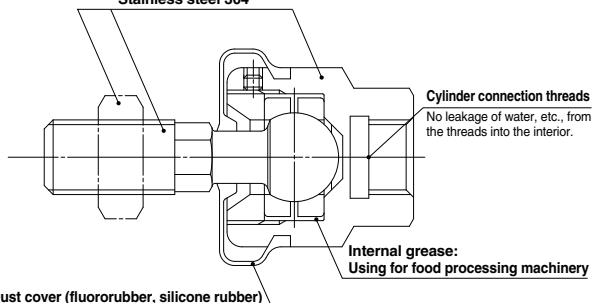
Note 1) Think of applicable bore size as a guide. For details, confirm the rod end thread diameter of a cylinder to be used in the catalog.

Note 2) For 3.5 MPa hydraulic cylinders, operate within the maximum tension and compression force.

## How to Order



### Stainless steel 304



**Dust cover (fluororubber, silicone rubber)**

- The shape of the cover prevents residual liquid.
- Improved sealing

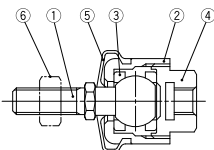
## Maintenance

### ⚠ Warning

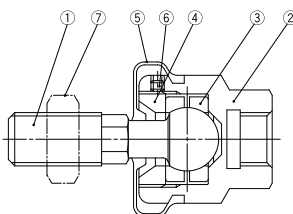
- Do not reuse if disassembled. High strength adhesive is applied to the portion of the connection that is threaded to prevent it from loosening, and it must not be disassembled. If it is forcefully disassembled, it could lead to damage.

## Construction

ø10, ø16



ø20 to ø63



### Component Parts

No.	Description	Material	Note
1	Stud	Stainless steel	
2	Case	Stainless steel	
3	Ring	Stainless steel	
4	Socket	Stainless steel	
5	Dust cover	Fluororubber/Silicon rubber	
6	Rod end nut	Stainless steel	

### Component Parts

No.	Description	Material	Note
1	Stud	Stainless steel (Thread parts)	Electroless nickel plated
2	Case	Stainless steel	
3	Ring	Chromium molybdenum steel	Electroless nickel plated
4	Cap	Carbon steel	Electroless nickel plated
5	Dust cover	Fluororubber/Silicon rubber	
6	Set screw	Carbon steel	
7	Rod end nut	Stainless steel	

## Replacement Parts

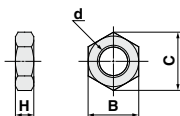
### Dust cover

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

Model	Part no. for dust cover	
	Fluoro rubber	Silicon rubber
JS10	P21530511	P21530512
JS16	P21530521	P21530522
JS20	P2153151	P2153152
JS32	P2153251	P2153252
JS40	P2153351	P2153352
JS63	P2153451	P2153452

### Rod end nut

One rod end nut is supplied with Series JS. If additional nuts are needed, please order them using the part no. shown below.



Model	Order no.	d: Thread nominal size	H	B	C
JS10-4-070	DA00127	M4×0.7	3.2	7	8.1
JS16-5-080	DA00128	M5×0.8	4	8	9.2
JS20-8-125	DA00036	M8×1.25	5	13	15
JS32-10-125	DA00006	M10×1.25	6	17	19.6
JS40-14-150	DA00186	M14×1.5	8	22	25.4
JS63-18-150	DA00188	M18×1.5	11	27	31.2

(mm)

D-□

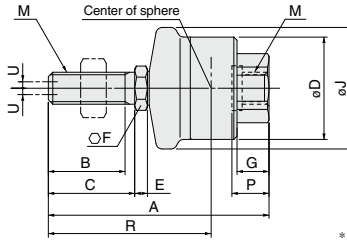
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Technical data

# Series JS

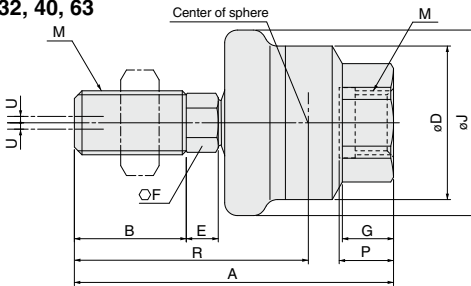
## Dimensions

### JS10, 16



\* Use the precision spanner for clock 4 mm in the case of mounting male thread of JS10.

### JS20, 32, 40, 63



(mm)															
Model	M	A	B	C	D	E	F	G	H	J	Center of sphere R	Max. thread depth P	Allowable eccentricity U	Max. operating tension and compression force (N)	Weight (kg)
JS10-4-070	M4 x 0.7	26	8.5	9.5	12	1.5	4	4	7	14.4	17	4.7	0.5	80	0.01
JS16-5-080	M5 x 0.8	34.5	12	13.5	16	2	6	5	10	19	23	5.8	0.5	210	0.02
JS20-8-125	M8 x 1.25	43.9	15.5	—	21	4.5	7	7	13	24.8	29.9	7.3	0.5	1100	0.05
JS32-10-125	M10 x 1.25	49.5	17.5	—	24	5	8	8	17	29	33.5	8.5	0.5	2500	0.08
JS40-14-150	M14 x 1.5	60	18.5	—	31	5	11	11	22	38.4	38	11.6	0.75	6000	0.16
JS63-18-150	M18 x 1.5	74.5	23	—	41	7	14	13.5	27	49.2	47.5	14.3	1	11000	0.31