

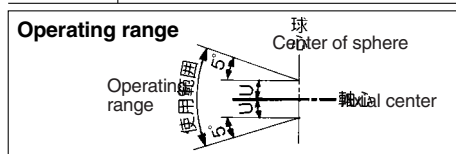
Floating Joint: Stainless Steel Type

Series JS

Specifications

Operating pressure	Pneumatic cylinder: 1 MPa or less
	Hydraulic cylinder: 3.5 MPa or less

Mounting	Basic style
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Series JS

⚠ Precautions

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

Mounting

⚠ Warning

- For the screw-in depth of the female threads, refer to the dimensions (page 10-19-14).
- 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.
- 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

- 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.

10-19-12

Specifications

Model	Applicable bore size (mm) ⁽¹⁾	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 60°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 or less ⁽²⁾		

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

J S 32 — 10-125

Stainless steel type

Applicable bore size (mm)

Symbol	Applicable bore size (mm)
10	10
16	10, 16
20	20
32	25, 32
40	40
63	50, 63

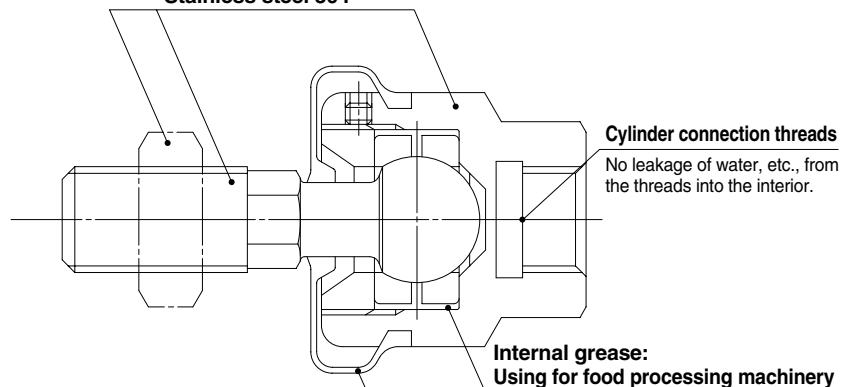
Dust cover material

Symbol	Material
Nil	Fluoro rubber
S	Silicon rubber

Nominal thread size

Symbol	Applicable cylinder nominal thread size
4-070	M4 x 0.7
5-080	M5 x 0.8
8-125	M8 x 1.25
10-125	M10 x 1.25
14-150	M14 x 1.5
18-150	M18 x 1.5

Stainless steel 304

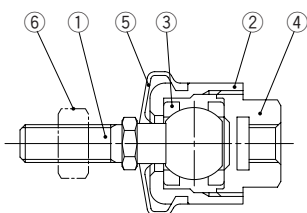


Dust cover (fluoro rubber, silicon rubber)

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

Construction

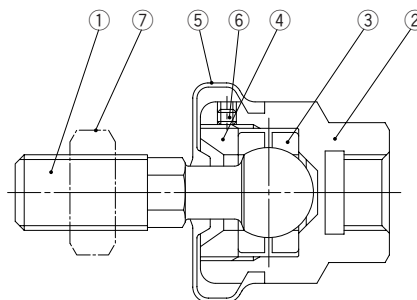
ø10, ø16



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	Fluoro rubber/Silicon	
⑥	Rod end nut	Stainless steel	

ø20 to ø63



Component Parts

No.	Description	Material	Note
①	Stud	Stainless steel (Thread parts)	Electroless nickel plated
②	Case	Stainless steel	
③	Ring	Chromium	Electroless nickel plated
④	Cap	Carbon steel	Electroless nickel plated
⑤	Dust cover	Fluoro rubber/Silicon	
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

Rod end nut (1 pc.) is attached to the standard type of Series JS.
But if it is needed additionally, order it as follows. For details, refer to page 10-19-14.
Example.....Rod end nut for JS40

RE^A_B

REC

C□X

C□Y

MQ^Q_M

RHC

MK(2)

RS^Q_G

RS^H_A

RZQ

MI^W_S

CEP1

CE1

CE2

ML2B

C₆5-S

CV

MVGQ

CC

RB

J

D-

-X

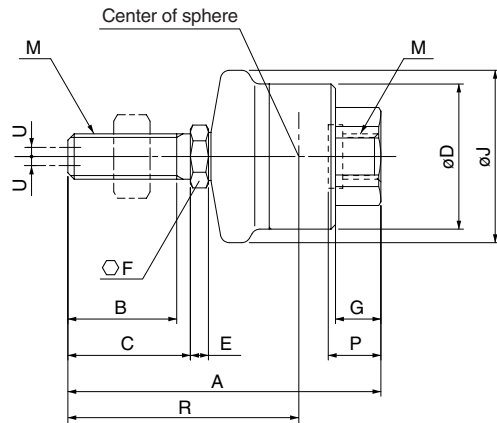
20-

Data

Series JS

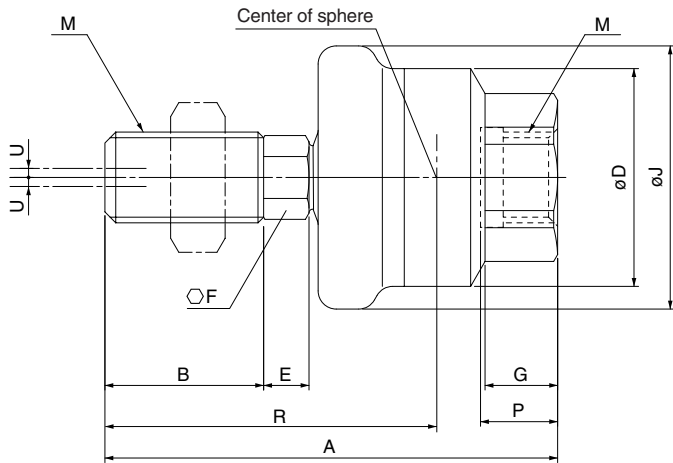
Dimensions

JS10, 16



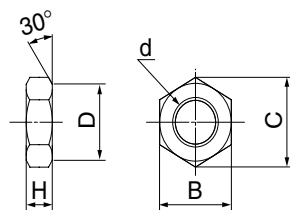
* Use the precision spanner for clock 4 mm in the case of mounting male thread of JS10.

JS20, 32, 40, 63



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)
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
JS16-5-080	M5 x 0.8	34.5	12	13.5	16	2	6	5	10	19	23	5.8	0.5	210
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
JS32-10-125	M10 x 1.25	49.5	17.5	—	24	5	8	8	17	29	33.5	8.5	0.5	2500
JS40-14-150	M14 x 1.5	60	18.5	—	31	5	11	11	22	38.4	38	11.6	0.75	6000
JS63-18-150	M18 x 1.5	74.5	23	—	41	7	14	13.5	27	49.2	47.5	14.3	1	11000

Rod end nut



Description	d: Thread nominal size	H	B	C	D
JS10 nut	M4 x 0.7	3.2	7	8.1	6.8
JS16 nut	M5 x 0.8	4	8	9.2	7.8
JS20 nut	M8 x 1.25	5	13	15	12.5
JS32 nut	M10 x 1.25	6	17	19.6	16.5
JS40 nut	M14 x 1.5	8	22	25.4	21
JS63 nut	M18 x 1.5	11	27	31.2	26