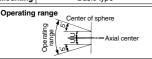
# Floating Joint: Stainless Steel Type

# JS Series



#### **Specifications**

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





**⚠** Precautions

I Be sure to read this before handling I the products. Refer to page 20 for I safety instructions.

#### Mounting

#### 

- For the screw-in depth of the female threads, refer to the dimensions (page 1248).
- 2. 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.

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.

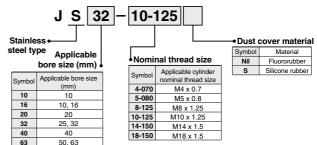
- This product is not a rotary joint. So, the product cannot be used for rotational or rotation acting applications.
- 5. Be sure to use the cushion mechanism of the cylinder or the buffer mechanism, such as the shock absorber so that any impact force is not applied to the floating joint when stopping 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

Specification	ns						
	Applicable	Applicable cylinder	Maximum operating	Allowable	Operating	pressure	Ambient
Model	bore size (mm)	nominal thread size	tension and compression force (N)	eccentricity U (mm)	pneumatic cylinder	Hydraulic cylinder	temperature
JS10-4-070	10	M4 x 0.7	80	0.5			
JS16-5-080	10, 16	M5 x 0.8	210	0.5		_	
JS20-8-125	20	M8 x 1.25	1100	0.5	1 MPa		E to 700C
JS32-10-125	25, 32	25, 32 M10 x 1.25		0.5	or less	3.5 MPa	–5 to 70°C
JS40-14-150	40	M14 x 1.5	6000	0.75		or less	
JS63-18-150	50, 63	M18 x 1.5	11000	1			

- Note1) 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.

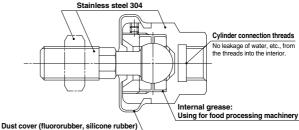
#### How to Order



Note) 80 80 100

Made to Order: Individual Specifications -X530 Note) For details, refer to page 1249.

For pneumatic cylinders



The shape of the cover prevents residual liquid.

· Improved sealing

#### 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.

## Design

#### **⚠** Warning

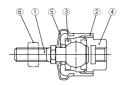
 JS series has play in the axial direction. (Default: 0.06 mm or less)

When positioning the driven object, avoid the influence of play using a knock pin or external stopper.



#### Construction

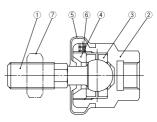
## ø10, ø16



### **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	Fluororubber/Silicon rubber	
6	Rod end nut	Stainless steel	

#### ø20 to ø63



#### **Component Parts**

No.	Description	Description Material				
1	Stud	Stainless steel (Thread parts)	Electroless nickel plated			
2	Case	Stainless steel				
3	Ring	Chromium molybdenum steel	Electroless nickel plated			
4	Сар	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								
iviouei	Fluoro rubber	Silicon rubber							
JS10	P21530511	P21530512							
JS16	P21530521	P21530522							
JS20	P2153151	P2153152							
JS32	P2153251	P2153252							
JS40	P2153351	P2153352							
JS63	P2153451	P2153452							

#### Rod end nunut

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

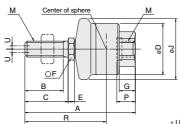


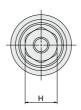
					(mm)
Model	Order no.	d: Thread nominal size	Н	В	С
JS10-4-070	DA00127	M4×0.7	3.2	7	8.1
JS16-5-080	DA00128	M5×0.8	4	8	9.2
JS20-8-125	DA00036	M8×1.25	5	13	15
JS32-10-125	DA00006	M10×1.25	6	17	19.6
JS40-14-150	DA00186	M14×1.5	8	22	25.4
JS63-18-150	DA00188	M18×1.5	11	27	31.2

# **JS** Series

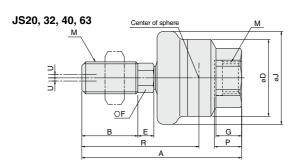
#### **Dimensions**

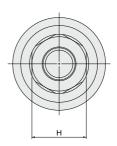
#### JS10, 16





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





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

## **JS** Series

# Made to Order: Individual Specifications

Please contact SMC for detailed dimensions, specifications and lead times.



# 1 For Pneumatic Cylinders: For Ø80, Ø100

Symbol -X530

Applicable to the floating joint and stainless steel type JS series and used for pneumatic cylinders with bore sizes of ø80 and ø100. \* This product is dedicated to the pneumatic cylinders.

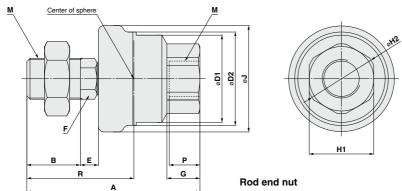
#### Model/Specifications

,		Applica	ble cylinder	Maximum operating	Allowable	Ambient		
Model	Bore size (mm) Note)	Nominal Dust cover thread size material		Operating pressure	tensile and compressive force N		temperature (°C)	Weight (kg)
JS80-22-150-X530	~00	M22 x 1.5	Fluororubber		5000	4.05	5 to 70	0.58
JS80-22-150S-X530	ø80	IVI22 X 1.5	Silicone rubber	1 MPa or less	5000	1.25		0.58
JS100-26-150-X530	~100	M26 x 1.5	Fluororubber	I IVIPa OF IESS	7850	2		1.05
JS100-26-150S-X530	ø100	IVI∠O X 1.5	Silicone rubber	]				1.05

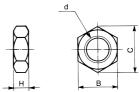
Note) Think of applicable bore size as a guide. For details, confirm the rod end thread diameter of a cylinder to be used in the catalog.

#### **Dimensions**

Dimoneione



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



		(,
1	В	С
3	32	37
_	44	47.0

(mm)

Model	Order no.	d: Nominal thread size	Н	В	С	
JS80-22-150(S)-X530	DA00243	M22 x 1.5	13	32	37	
S100-26-150(S)-X530	DA00189	M26 x 1.5	16	41	47.3	

Differsions																
Model	М	A	В	D1	D2	E	F	G	H1	H2	J	Center of sphere	Maximum thread depth <b>P</b>	Allowable eccentricity U		Weight (kg)
JS80-22-150(S)-X530	M22 x 1.5	89.5	28	46	50	9.9	19	16.8	32	34.7	57.2	56.5	14	1.25	5000	0.58
JS100-26-150(S)-X530	M26 x 1.5	110	34	55.5	59.5	11.4	24	21	41	44.4	66.2	68	19.5	2	7850	1.05