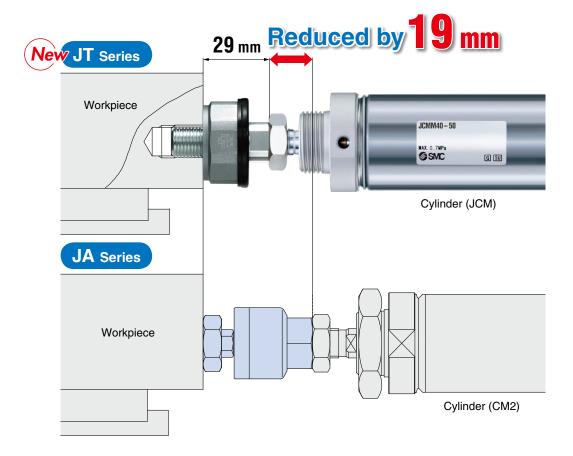
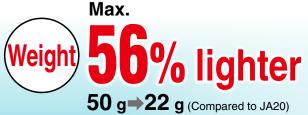
Lightweight and Compact Type Floating Joint





Model	Connection thread	Shortened dimensions	Overall length	
JT20	M8 x 1.25	12.3 mm	27.2 mm	
JT32	M10 x 1.25	13.0 mm	33.0 mm	Overall
JT40	M14 x 1.5	19 mm	43.0 mm	length





 Size
 JA Series
 NewJT Series

 20
 50 g → 22 g

 32
 70 g → 38 g

 40
 160 g → 98 g

- Screw size is the same as the screw size for standard JA series.
- Applicable for space saving cylinder (JCM series)
- With dustproof cover

JT Series

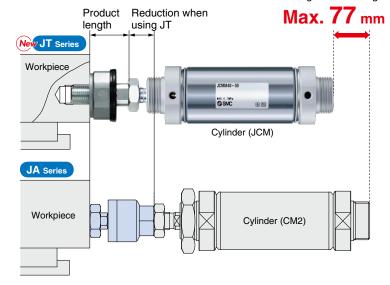


MA O'ME CHINY BLUE

More compact and light-weight combination are available by using the JT series with a JCM series cylinder.



Reduction of length when using JT and JCM



Overall Length Comparison

Size	JA + CM2 Series	NewJT + JCM Series	Reduction rate
20	139.5 mm 💳	→ 90.2 mm	35%
32	149.0 mm 🛑	→ 96.0 mm	36%
40	189.0 mm	→ 112.0 mm	41%

Weight Comparison

Size	JA + CM2 Series	New JT + JCM Series	Reduction rate
20	190 g 🛑	→ 102 g	46%
32	350 g 🛑	→ 188 g	46%
40	720 g 🛑	→ 378 g	48%

Series Variations

Preumatic cylinder	Series	Supply pressure for cylinder		Applicable cylinder bore size [mm]	Mounting	Page	
Pneumatic cylinder				20, 25, 32, 40	Basic		
Pneumatic cylinder 1 MPa or less 20, 25, 32, 40, 50, 63, 80, 100, 125 140, 160, (180, 200) Poot, Flange	(Light weight type			20 25 32 40 50 63			
Standard Cylinder 1 MPa or less 20, 25, 32, 40, 50, 63, 80, 100, 125 140, 160, (180, 200) Flange	-IA Sories		0.7 MPa or less	6, 10, 15		1 1	
Hydraulic cylinder or less 20, 25, 32, 40, 50, 63, 80, 100, 125 140, 160, (180, 200) JAH Series (Heavy load)					Foot,		
Hydraulic cylinder 7 MPa or less 40, 50, 63, 80, 100 Basic, Foot, Flange Pefer to the Web Catalog or Best Pneumatics. JB Series (For compact cylinders)				20, 25, 32, 40, 50, 63, 80, 100, 125			
(For compact evlinders)				40, 50, 63, 80, 100	Foot,	Web Catalog or Best	
Pneumatic cylinder or less 12, 16, 20, 25, 32, 40 Basic (Female thread)	JB Series (For compact cylinders)	Pneumatic cylinder	1 MPa or less	12, 16, 20, 25, 32, 40 50, 63, 80, 100	Basic (Female thread)		
JS Series Pneumatic cylinder 1 MPa or less 10, 16, 20, 25, 32, 40 so, 63, (80, 100)	() ·				Pasis		
Hydraulic cylinder 3.5 MPa or less 20, 25, 32, 40, 50, 63			0.0	Basic 20, 25, 32, 40, 50, 63			

Standard/Lightweight and Compact Type Floating Joint

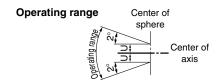
JT Series





Specifications

Model	Nominal thread size	Allowable axial force [N]	Allowable eccentricity U [mm]	Rotating angle [°]	Operating temperature range
JT20	M8 x 1.25	220	0.5	±2	
JT32	M10 x 1.25	560	0.5	±2	−10 to 70°C
JT40	M14 x 1.5	880	0.75	±2	

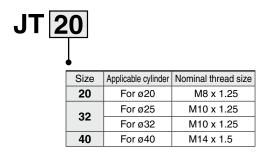


Applicable Cylinder

Model	Applicable	cylinder *1	Recommended cylinder
Model	Bore size	Operating pressure	Recommended cylinder
JT20	ø20		JC□M20 (Rod end male thread type)
ITOO	ø25 0.7	0.7 MPa	JC□M25 (Rod end male thread type)
JT32	ø32	or less	JC□M32 (Rod end male thread type)
JT40	ø40]	JC□M40 (Rod end male thread type)

 $[\]ast$ 1: Make sure to use a cylinder with a built-in cushion mechanism.

How to Order

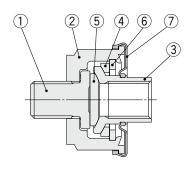


Operating Conditions

Operating pressure	Pneumatic cylinder: 0.7 MPa or less				
Mounting	Basic				
Operating temperature	−10 to 70°C				

JT Series

Construction



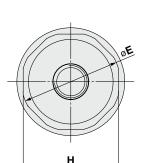
No.	Description	Material	Note	
1	Stud	Carbon steel	Zinc chromated	
2	Bowl	Aluminum alloy	Chromated	
3	Socket	Carbon steel	Zinc chromated	
4	Ring	Rolled steel	Nitriding treatment	
5	Slider	Rolled steel	Nitriding treatment	
6	Plate	Rolled steel	Zinc chromated	
7	Dust cover	Synthetic rubber		

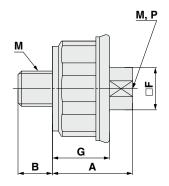
Replacement Part

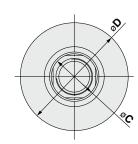
No.	Description	Part no.	Applicable model
7 Dust cover	P215420-07	For JT20	
	Dust cover	P215432-07	For JT32
		P215440-07	For JT40

Dimensions

JT20 to 40







Standard	Pneumatic:	Up 1	to 0.7	MPa
----------	------------	------	--------	-----

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											[]
	Connection								Width	Maximum	
Model	thread	Α	В	øС	øD	øΕ	□F	G	across flats	thread depth	Weight
	M								Н	Р	·
JT20	M8 x 1.25	19.2	8	11	(25.4)	23	10	13.6	22	9.5	22 g
JT32	M10 x 1.25	23	10	13.4	(30.6)	28	12	16.3	27	11.5	38 g
JT40	M14 x 1.5	29	14	19	(40.4)	37.4	17	20.3	36	15.5	98 g

^{*:} Value in () is the dimension when the dust cover is used.



JT Series Specific Product Precautions 1

Be sure to read this before handling the products. Refer to the back cover for Safety Instructions. For Actuator Precautions, refer to Handling Precautions for SMC Products and the Operation Manual on the SMC website, http://www.smcworld.com

Design

⚠ Warning

1. Check the application.

This product is a shaft coupling for linear reciprocating motion used to absorb slight misalignment of the workpiece and the cylinder during linear motion. It is not a shaft coupling for rotation. Do not use it for an application in which rotation or oscillation is applied.

2. Use a foot type or flange type bracket to mount a cylinder.

If a clevis type or trunnion type bracket is used, the cylinder shaft will not be fixed and it will be able to rotate. This mounting method, which exceeds the allowable eccentricity and rotating angle of the floating joint, may cause breakage or malfunction of the product.

3. Use within the range of specifications.

Operation of the product under loading or with eccentricity outside of allowable specification may cause breakage or malfunction.

4. Use a cylinder with a built-in cushion mechanism.

When a driven object is stopped, ensure the impact force of the object being transferred to the floating joint is prevented by using a cylinder with a built-in cushion mechanism (rubber cushion or air cushion).

To stop the cylinder at the intermediate position, use an external shock absorbing mechanism such as a shock absorber. If the cushion mechanism or the external shock absorbing mechanism is not used, an excessive impact force will be generated when stopping the cylinder and this may cause breakage or malfunction of the product.

5. Install an external stopper to avoid run-away of the equipment.

If there is a risk of equipment damage or injury in the case of equipment running out of control or dropping off the driven object due to loose connecting screws, install an external stopper to avoid run-away of the equipment.

6. Play in the axial direction

The JT series has play in the axial direction. (Default: 0.15 mm or less) When positioning the driven object, avoid the influence of play using a knock pin or external stopper.

Mounting

⚠ Warning

1. Maintenance space

Allow sufficient space for maintenance and inspection.

2. Operate the socket by hand before mounting to ensure it moves smoothly.

The dust cover may stick to the socket. Move the dust cover at the base of the socket with fingers, or twist the socket right and left gently to free it before mounting.

Mounting

Marning

3. Tighten the product to the appropriate torque for the screw size using an appropriate tool. In addition, apply a locking adhesive.

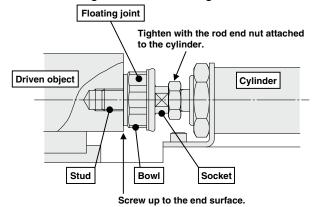
When connecting the driven object to the cylinder rod with a floating joint, hold the octagonal and square parts with an appropriate wrench and tighten the floating joint to the appropriate tightening torque. Refer to the table on the right for the appropriate tightening torque.

The floating joint may be broken or malfunction if parts other than the octagonal or square parts are gripped and rotated with pliers or a wrench, or if it is tightened to an excessive torque. As a countermeasure against loosening caused by vibration or other reasons, apply locking adhesive.

Wrench Size and Tightening Torque

	Stud (Male	thread side)	Socket (Female thread side)			
Model	Wrench size (Bowl)	Tightening torque	Wrench size (Socket)	Tightening torque		
JT20	Width: 22 mm	12 N⋅m	Width: 10 mm	8 to 12 N·m		
JT32	Width: 27 mm	24 N⋅m	Width: 12 mm	15 to 24 N·m		
JT40	Width: 36 mm	68 N⋅m	Width: 17 mm	40 to 68 N·m		

Reference drawing for correct mounting



Operating Environment

⚠ Warning

 Avoid using in a location where the product could be splashed by liquids such as coolants and water.
 Also, avoid locations where exposed to a large amount of dust or foreign matter.

If liquid or dust gets inside the floating joint from the gap of the dust cover, it may cause a malfunction. Install a protective cover if the product is directly splashed by liquids or foreign matter can be accumulated.

2. Do not expose the product to direct sunlight for an extended period of time.



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JT Series Specific Product Precautions 2

Be sure to read this before handling the products. Refer to the back cover for Safety Instructions. For Actuator Precautions, refer to Handling Precautions for SMC Products and the Operation Manual on the SMC website, http://www.smcworld.com

Operation

⚠ Warning

 Use the product so that the kinetic energy does not exceed the allowable value of the cylinder.

The JC M series cylinder is recommended to be used with the JT series. When operating the equipment, adjust the stroke end velocity according to the load so that the kinetic energy is no more than that of the allowable value of the cylinder.

Speed when stopping (stroke end velocity) ≈ Average speed x 1.4

Also, when using cylinders or equipment other than the JC \square M series, adjust the stroke end velocity according to the load so that the kinetic energy is no more than that of the allowable value of the JC \square M series.

Maintenance

Marning

 Implement regular inspections as necessary when starting-up etc. Confirm that there is no loosening of the connection between the driven object and the cylinder.

When the equipment is operated at high frequency, screws and play in the axial direction can increase and occur easily over time. Make sure to inspect the equipment before starting work to confirm that the screws have not been loosened and the play has not significantly increased.

2. If the play in the axial direction becomes larger or abnormal operation is found, replace the product.

Play in the axial direction of the floating joint will increase over time, even if the product is used constantly. If the amount of play becomes excessive to the application or the operation is inflexible, replace the product itself.

3. Confirm that there is no weakening of the rubber bumper within the cylinder or adjustment error of the air cushion.

If the rubber bumper of the cylinder is weakened or the adjustment of the air cushion is incorrect, an excessive impact force will be generated when the cylinder reaches its end of stroke, this may cause breakage or malfunction of the product. Replace the cylinder if the rubber bumper is weakening or readjust the air cushion if an adjustment error is found.

Other

⚠ Caution

 Chromate treatment is performed for the bowl of JT series for rust prevention. There may be slight variation in the evenness and tone of color, but this does not affect the resistance against rust or product performance.

If the product with even tone of color is required for the application, it is available as a special request. Please contact SMC.



⚠ Safety Instructions

These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of "Caution," "Warning" or "Danger." They are all important notes for safety and must be followed in addition to International Standards (ISO/IEC)*1), and other safety regulations.

Caution: Caution indicates a hazard with a low level of risk which, If not avoided, could result in minor or moderate injury.

Warning: Warning indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.

⚠ Danger: Danger indicates a nazaru wiun a nigin level on the first avoided, will result in death or serious injury. **Danger** indicates a hazard with a high level of risk which, *1) ISO 4414: Pneumatic fluid power - General rules relating to systems.

ISO 4413: Hydraulic fluid power – General rules relating to systems.

IEC 60204-1: Safety of machinery - Electrical equipment of machines. (Part 1: General requirements)

ISO 10218-1: Manipulating industrial robots - Safety.

⚠Warning

1. The compatibility of the product is the responsibility of the person who designs the equipment or decides its specifications.

Since the product specified here is used under various operating conditions, its compatibility with specific equipment must be decided by the person who designs the equipment or decides its specifications based on necessary analysis and test results. The expected performance and safety assurance of the equipment will be the responsibility of the person who has determined its compatibility with the product. This person should also continuously review all specifications of the product referring to its latest catalog information, with a view to giving due consideration to any possibility of equipment failure when configuring the equipment.

2. Only personnel with appropriate training should operate machinery and equipment.

The product specified here may become unsafe if handled incorrectly. The assembly, operation and maintenance of machines or equipment including our products must be performed by an operator who is appropriately trained and experienced.

3. Do not service or attempt to remove product and machinery/ equipment until safety is confirmed.

- 1. The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been confirmed.
- 2. When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
- 3. Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction.

4. Contact SMC beforehand and take special consideration of safety measures if the product is to be used in any of the following conditions.

- 1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
- 2. Installation on equipment in conjunction with atomic energy, railways, air navigation, space, shipping, vehicles, military, medical treatment, combustion and recreation, or equipment in contact with food and beverages, emergency stop circuits, clutch and brake circuits in press applications, safety equipment or other applications unsuitable for the standard specifications described in the product catalog.
- 3. An application which could have negative effects on people, property, or animals requiring special safety analysis.
- 4. Use in an interlock circuit, which requires the provision of double interlock for possible failure by using a mechanical protective function, and periodical checks to confirm proper operation.

⚠ Caution

1. The product is provided for use in manufacturing industries.

The product herein described is basically provided for peaceful use in manufacturing industries.

If considering using the product in other industries, consult SMC beforehand and exchange specifications or a contract if necessary.

If anything is unclear, contact your nearest sales branch.

Limited warranty and Disclaimer/ **Compliance Requirements**

The product used is subject to the following "Limited warranty and Disclaimer" and "Compliance Requirements".

Read and accept them before using the product.

Limited warranty and Disclaimer

- 1. The warranty period of the product is 1 year in service or 1.5 years after the product is delivered, whichever is first.*2) Also, the product may have specified durability, running distance or
- replacement parts. Please consult your nearest sales branch. 2. For any failure or damage reported within the warranty period which is clearly our
 - responsibility, a replacement product or necessary parts will be provided. This limited warranty applies only to our product independently, and not to any other damage incurred due to the failure of the product.
- 3. Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalog for the particular products.
 - 2) Vacuum pads are excluded from this 1 year warranty.

A vacuum pad is a consumable part, so it is warranted for a year after it is delivered.

Also, even within the warranty period, the wear of a product due to the use of the vacuum pad or failure due to the deterioration of rubber material are not covered by the limited warranty.

Compliance Requirements

- 1. The use of SMC products with production equipment for the manufacture of weapons of mass destruction (WMD) or any other weapon is strictly prohibited.
- 2. The exports of SMC products or technology from one country to another are governed by the relevant security laws and regulations of the countries involved in the transaction. Prior to the shipment of a SMC product to another country, assure that all local rules governing that export are known and followed.

⚠ Caution

SMC products are not intended for use as instruments for legal metrology.

Measurement instruments that SMC manufactures or sells have not been qualified by type approval tests relevant to the metrology (measurement) laws of each country. Therefore, SMC products cannot be used for business or certification ordained by the metrology (measurement) laws of each country.



Floating Joint

JC Series

Light Weight Type for Light Load 20, 30, 40, 63

Light Weight
With the aluminum case
Weight

*Compared to the current model JA40

48 g 112 g 4 4 160 g JC40 JA40

- Product suitable for air cylinders
 - Light weight mitigates lateral loads to air cylinders.
 - Maximum tensile force equivalent to 1 MPa
- Floating joint compensates for any misalignment between the work piece and the air cylinder.
- Interchangeable mounting with the current JA series



SMC

Technical Data

D-□ -X□

1137

Floating Joint Light Weight Type for Light Load

JC Series

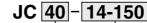


Model/Specifications



Model	Model Applicable cylinder bore size (mm)		Maximum operating tensile and compressive force (N) Basic type	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] - 3
JC63-18-150	50/63	M18 x 1.5	3100	1	
Semi-standard	Thread no	minal 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	- 3
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



Applicable cylinder bore size

Model	Symbol	Applicable cylinder bore size (mm)
.p	20	20
tandard type	30	25/32
tal	40	40
Ś	63	50/63

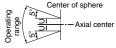
Thread nominal size (Standard)

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

Specifications

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

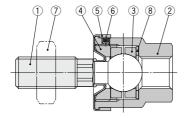
Operating range





Floating Joint Standard/Light Weight Type **JC Series**

Construction

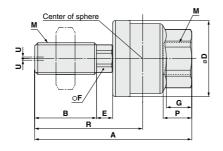


JC63-18-150

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	

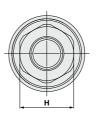
Dimensions

JC20 to 63



74.5 25

1.5



15

3100

0.23

Standard type Pneumatic: to 1 MPa (mm)															
Applicable cylinder	Model	N	Л	_	В	0	_	_	G	н	Center	Maximum thread depth	Allowable	Maximum operating tensile and	Weight
bore size	Iviouei	Nominal size	Pitch	Α .	В	ט	_	F	l G	п.	R	P		compressive force N	kg
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

14 13.5

27 47.5

41 7.5

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

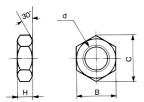
> D-□ -X□

Technical Data



Dimensions of Accessories

Rod end nut



					(111111)
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 type 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

JC Series



Specific Product Precautions

Be sure to read this before handling the products. Refer to back page 50 for Safety Instructions and pages 3 to 7 for Actuator Precautions.

Mounting

⚠ Warning

 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 1139). 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. This product is dedicated to the linear motion. The threaded portion can be rotated, but this product is not a fitting designed for rotational axis. So, do not use for rotational applications.
- 5. Use the product at 25% or less of the allowable kinetic energy of the cylinder. When a driven object is stopped, be sure to prevent the impact force of the object being transferred to the product by adding 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, causing breakage.

Maintenance

⚠ Warning

1. Do not reuse if disassembled.

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

 $J\square$

D-□ -X□

Technical Data





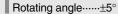
Floating Joint

JA/JAH/JB/JS Series

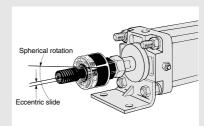


The floating joint can absorb any "off-centering" or "loss of parallel accuracy" between the cylinder and the driven body.

- Centering is unnecessary.
- A high level of machining accuracy is unnecessary.
- The installation time is dramatically reduced.
- It is compact and is suitable for high tensile stresses.
- Long service life (with dustproof cover)







Series Variations

Series Series	Cylinder supply pressure	Applicable bore size (mm) Mounting	Page
Standard JA Series	Pneumatic cylinder 0.7 MPa or less 1 MPa or less	20, 25, 30, 40, 50, 63 80, 100, 125, 140, 160 Basic type Flange type Foot type	1144
	Hydraulic cylinder 3.5 MPa or less	20, 25, 30, 40, 50, 63 80, 100, 125, 140, 160	
Heavy load JAH Series	Hydraulic cylinder 7 MPa or less	40, 50, 63, 80, 100 Basic type Flange type Foot type	1151
For compact cylinders JB Series	Pneumatic cylinder 1 MPa or less	12, 16, 20, 25, 32 40, 50, 63, 80, 100 Basic type (Female thread)	1154
Stainless steel type JS Series	Pneumatic cylinder 1 MPa or less	32, 40, 50, 63	1150
	Hydraulic cylinder 3.5 MPa or less	00 05 00	1156

D-□ -X□

Floating Joint: Standard Type

.IA Series



Specifications

	Pneumatic cylinder:						
Operating	1 MPa or less						
pressure	Hydraulic cylinder:						
	3.5 MPa or less						
Mounting	Basic type, Flange type, Foot type						
Operating range Center of sphere Axial center							



Be sure to read this before handling the products. Refer to back page 50 for Safety Instructions.

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 bottom 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 1146). As a rule, after the rod bottoms out, back off 1 to 2 turns.

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.
- 4. 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.

Maintenance

⚠ Warning

1. Do not reuse if disassembled. The threaded part cannot be removed from the rest of the joint as they are either welded together or held together using high-strength adhesive. Attempting to Model/Specifications

model/opcomoditions											
	Applicable cylinder		n operatin		Allowable	Rotating	Ambient				
Model	bore size	nominal		pression t	eccentricity		temperature				
	(mm)	() Linded 6/20									
Standard/Threa											
JA6-3-050	6	M3 x 0.5	19	-	-	0.5					
JA10-4-070	10	M4 x 0.7	54	-	-	0.5					
JA15-5-080	10, 15	M5 x 0.8	123	-	-	0.5					
JA15-6-100	15	M6 x 1	123	-	-	0.5					
JA 20-8-125	20	M8 x 1.25	1100	1100	1000	0.5					
JA□30-10-125	25, 32	M10 x 1.25	2500	2500	2000	0.5	±5°				
JA□40-14-150	40	M14 x 1.5	4400	4400	4400	0.75					
JA□63-18-150	50, 63	M18 x 1.5	11000	11000	9000	1					
JA□80-22-150	80	M22 x 1.5	18000	18000	14000	1.25					
JA 100-26-150	100	M26 x 1.5	28000	28000	22000	2					
JA 140-30-150	125, 140	M30 x 1.5	54000	36000	36000	2.5					
JA 160		M36 x 1.5	71000 55000		55000	3]			
Semi-standard/	Thread no	ominal size						-5 to 60°C			
JA 20-8-100	20	M8 x 1	1100	1100	1000	0.5					
JA 25-10-150	25	M10 x 1.5	2500	2500	2000	0.5					
JA 32-10-100	32	M10 x 1	2500	2500	2000	0.5					
JA 40-12-125	32, 40	M12 x 1.25	4400	4400	4400	0.75					
JA 40-12-150	40	M12 x 1.5	4400	4400	4400	0.75					
JA□40-12-175	32, 40	M12 x 1.75	4400	4400	4400	0.75	±5°				
JA□50-16-150	50	M16 x 1.5	11000	11000	9000	1	13				
JA□63-16-200	50, 63	M16 x 2	11000	11000	9000	1					
JA□80-20-250	80	M20 x 2.5	18000	18000	14000	1.25					
JA 100-24-300	100	M24 x 3	28000	28000	22000	2					
JA 100-27-150	100	M27 x 1.5	28000	28000	22000	2					
JA 125-27-200	125	M27 x 2	28000	28000	28000	2					
JA□160-33-200	160	M33 x 2	71000	55000	55000	3					

How to Order

JA F 14-150 Mounting type ●

Applicable bore size (mm)

Basic type Flange type Foot type

Model	Symbol	Applicable bore size (mm)						
	6	6						
	10	10						
	15	10, 15						
ъ	20	20						
Standard	30	25, 32						
tan	40	40						
S	63	50, 63						
	80	80						
	100	100						
	140	125, 140						
	160	160						

180	180
200	200

1. The black zinc chromate treatment is applied to the material surfaces of the case, flange and foot. However, the white deposit may rarely occur on the surface. This white deposit does not affect the product functions. However, if the white deposit becomes a problem from a viewpoint of appearance, special products with the surface treatment changed to the electroless nickel plating are also available. For details, please contact SMC.

Option

Nil None ligh temperature specifications -5 to 100°C

♦Thread nominal size (Standard)

Nominal thread size	Applicable cylinder 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
10-125	M10 x 1.25
14-150	M14 x 1.5
18-150	M18 x 1.5
22-150	M22 x 1.5
26-150	M26 x 1.5
30-150	M30 x 1.5
36-150	M36 x 1.5

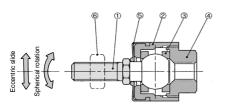
Made to Order: Individual Specifications -X530

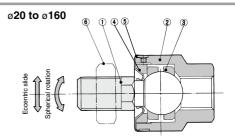
Note) For details, refer to page 1149.

For pneumatic cylinders

Construction

ø6 to ø15





Component Parts

Description	Material	Note				
Stud	Free-cutting steel	Electroless nickel plated				
Case	Brass	Electroless nickel plated				
Ring	Stainless steel					
Socket	Brass	Electroless nickel plated				
Dust cover	Synthetic rubber					
Rod end nut	Low carbon steel wire rod	Zinc chromated				
	Stud Case Ring Socket Dust cover	Stud Free-cutting steel Case Brass Ring Stainless steel Socket Brass Dust cover Synthetic rubber				

No.	Description	Material	Note					
1	Stud	Chromium molybdenum steel	Dyed black					
2	Case	Carbon steel	Black zinc chromated					
3	Ring	Chromium molybdenum steel						
4	Сар	Carbon steel	Black zinc chromated					
5	Dust cover	Synthetic rubber						
6	Rod end nut	Carbon steel	Zinc chromated					
7	Flange	Rolled steel	Black zinc chromated					
8	Foot	Rolled steel	Black zinc chromated					

Accessory Dimensions

Rod end nut

One rod end nut is supplied with the JA series or JAH basic type. 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	
JA6-3-050	DA00201	M3×0.5	2.4	5.5	6.4	
JA10-4-070	DA00117	M4×0.7	3.2	7	8.1	
JA15-5-080	DA00118	M5×0.8	4	8	9.2	
JA15-6-100	DA00119	M6×1	5	10	11.5	
JA20-8-100	DA00207	M8×1	5	13	15	
JA20-8-125	DA00169	M8×1.25	5	13	15	
JA32-10-100	DA00141	M10×1	6	17	19.6	
JA30-10-125	DA00142	M10×1.25	6	17	19.6	
JA25-10-150	DA00140	M10×1.5	6	17	19.6	
JA40-12-125	DA00145	M12×1.25	7	19	21.9	
JA40-12-150	DA00146	M12×1.5	7	19	21.9	
JA40-12-175	DA00143	M12×1.75	7	19	21.9	
JA40-14-150	DA00148	M14×1.5	8	22	25.4	
JA50-16-150	DA00151	M16×1.5	10	24	27.7	
JAH40-16-150	DAUUISI	WITOX 1.5	10	24	27.7	
JA63-16-200	DA00150	M16×2	10	24	27.7	
JA63-18-150	DA00153	M18×1.5	11	27	31.2	

					(mm)
Model	Order no.	d: Thread nominal size	Н	В	С
JAH50-20-150	DA00155	M20×1.5	12	30	34.6
JA80-20-250	DA00154	M20×2.5	12	30	34.6
JA80-22-150	DA00156	M22×1.5	13	32	37
JAH63-24-150	DA00158	M24×1.5	14	36	41.6
JAH63-24-200	DA00159	M24×2	14	36	41.6
JA100-24-300	DA00157	M24×3	14	36	41.6
JA100-26-150	DA00160	M26×1.5	16	41	47.3
JA100-27-150	DA00161	M27×1.5	16	41	47.3
JA125-27-200	DA00162	M27×2	16	41	47.3
JA140-30-150 JAH80-30-150	DA00224	M30×1.5	18	46	53.1
JAH80-30-200	DA00163	M30×2	18	46	53.1
JA160-33-200	DA00225	M33×2	20	50	57.7
JA160-36-150	DA00164	M36×1.5	21	55	63.5
JAH100-39-150	DA00204	M39×1.5	23	60	69.3
JAH100-42-300	DA00165	M42×3	25	65	75
JAH100-48-150	DA00205	M48×1.5	29	75	86.5

Floating Joint Replacement Parts

Dust cover

Order with the following part no. if dust cover is damaged. Replaceable dust cover is only for the basic type. Flange type and foot type cannot be replaced.

Part no. for dust cover	Applicable model
P2152051	JA6, JA10
P2152052	JA15, JB12, JB16
P215215	JA20, JB20
P215225	JA30, JB30
P215235	JA40, JB40
P215245	JA63, JA50, JB63

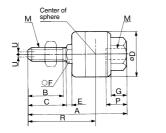
Part no. for dust cover	Applicable model
P215255	JA80, JAH40, JB80
P215265	JA100, JAH50, JB100
P215275	JA125, JAH63
P215285	JA140, JAH80, JB140
P215295	JA160, JAH100, JB160





Basic Type: JA6 to JA160

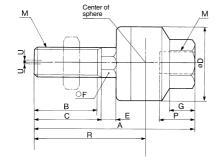
JA6 to 15

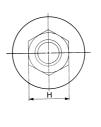




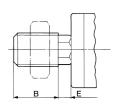
Use the precision spanner for clock 4 mm in the case of mounting male thread of JA6 and JA10.

JA20 to 160





Without C-dimension



(mm)

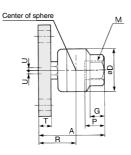
Applicable Model		N	Л	Α	В	_	D	E	_	G	н	Center of sphere	Maximum thread depth	Allowable	tension and	Weight
(mm)	Woder	Nominal size	Pitch	_ ^				_	·		•••	R	P	U	compression force (N)	(kg)
Standard Pneumatic: Up to 1 MPa Hydraulic: Up to 3.5 MPa																
6	JA6-3-050	3	0.5	23.2	7	8	12	1.5	4	3.2	5.5	15	5	0.5	19	0.01
10 (CJ1)	JA10-4-070	4	0.7	26	9	10	12	1.5	4	4	7	17	5.5	0.5	54	0.01
10 (CZ1), 15 (CJ1)	JA15-5-080	5	0.8	34.5	12.5	14	16	2	6	5	10	23	7	0.5	123	0.02
15 (CZ1)	JA15-6-100	6	1	34.5	12.5	14	16	2	6	5	10	23	7	0.5	123	0.02
20	JA20-8-125	8	1.25	44	17.5	-	21	4.5	7	7	13	30.5	8	0.5	1100	0.05
25, 32	JA30-10-125	10	1.25	49.5	19.5	-	24	5	8	8	17	34	9	0.5	2500	0.07
40	JA40-14-150	14	1.5	60	20	-	31	6	11	11	22	38	13	0.75	4400	0.16
50, 63	JA63-18-150	18	1.5	74.5	25	_	41	7.5	14	13.5	27	47.5	15	1	11000	0.31

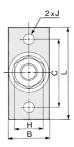
U	070-0-000	J	0.0	20.2	-	0	12	1.0		J.2	0.0	10	J	0.0	10	0.01
10 (CJ1)	JA10-4-070	4	0.7	26	9	10	12	1.5	4	4	7	17	5.5	0.5	54	0.01
10 (CZ1), 15 (CJ1)	JA15-5-080	5	0.8	34.5	12.5	14	16	2	6	5	10	23	7	0.5	123	0.02
15 (CZ1)	JA15-6-100	6	1	34.5	12.5	14	16	2	6	5	10	23	7	0.5	123	0.02
20	JA20-8-125	8	1.25	44	17.5	-	21	4.5	7	7	13	30.5	8	0.5	1100	0.05
25, 32	JA30-10-125	10	1.25	49.5	19.5	-	24	5	8	8	17	34	9	0.5	2500	0.07
40	JA40-14-150	14	1.5	60	20	-	31	6	11	11	22	38	13	0.75	4400	0.16
50, 63	JA63-18-150	18	1.5	74.5	25	-	41	7.5	14	13.5	27	47.5	15	1	11000	0.31
80	JA80-22-150	22	1.5	89.5	29	-	50	9.5	19	16	32	56.5	18	1.25	18000	0.58
100	JA100-26-150	26	1.5	110	35	-	59.5	11.5	24	20	41	68	24	2	28000	1.08
125, 140	JA140-30-150	30	1.5	152	42	45	79	14	30	22	46	94.5	38	2.5	54000	2.7
160	JA160-36-150	36	1.5	178	52	55	96	16	36	24	55	112	42	3	71000	4.7
				•												

100	JA 100-30-130	30	1.5	1/0	52	55	90	10	30	24	55		42	3	71000	4.7
Semi-standard Pneumatic: Up to 1 MPa Hydraulic: Up to 3.5 MPa																
20	JA20-8-100	8	1	44	17.5	-	21	4.5	7	7	13	30.5	8	0.5	1100	0.05
25	JA25-10-150	10	1.5	49.5	19.5	-	24	5	8	8	17	34	9	0.5	2500	0.07
32	JA32-10-100	10	1	49.5	19.5	-	24	5	8	8	17	34	9	0.5	2500	0.07
32, 40	JA40-12-125	12	1.25	60	20	-	31	6	11	11	22	38	13	0.75	4400	0.16
40	JA40-12-150	12	1.5	60	20	-	31	6	11	11	22	38	13	0.75	4400	0.16
32, 40	JA40-12-175	12	1.75	60	20	-	31	6	11	11	22	38	13	0.75	4400	0.16
50	JA50-16-150	16	1.5	71.5	22	-	41	7.5	14	13.5	27	44.5	15	1	11000	0.3
50, 63	JA63-16-200	16	2	71.5	22	-	41	7.5	14	13.5	27	44.5	15	1	11000	0.3
80	JA80-20-250	20	2.5	90.5	27	30	50	9.5	19	16	32	57.5	18	1.25	18000	0.6
100	JA100-24-300	24	3	110	32	35	59.5	11.5	24	20	41	68	24	2	28000	1.05
100	JA100-27-150	27	1.5	110	35	-	59.5	11.5	24	20	41	68	24	2	28000	1.08
125	JA125-27-200	27	2	123	34	38	66	13	24	20	41	77	24	2	28000	1.5
160	JA160-33-200	33	2	165	38	42	96	16	36	24	55	99	42	3	71000	4.5

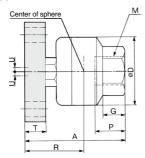
Flange Type: JAF20 to JAF160

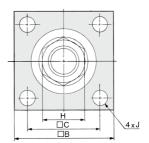
JAF20 to ø40





øJAF50 to ø160





																	(mm)
Applicable bore size (mm)	Model	Nominal size	/I Pitch	A	В	L	С	D	т	J	G	н	Center of sphere	Maximum thread depth P	Allowable eccentricity	Maximum operating tension and compression force (N)	Weight (kg)
	Pneumatic: Up to		Hydra	ulic: l	Jp to	3.5 N	└── 1Pa							•		10/00 (14)	
20	JAF20-8-125	8	1.25	32.5	19	48	36	21	6	6.6	7	13	19	8	0.5	1100	0.08
25, 32	JAF30-10-125	10	1.25	36	25	52	40	24	6	6.6	8	17	20.5	9	0.5	2500	0.12
40	JAF40-14-150	14	1.5	49	32	70	52	31	9	9	11	22	27	13	0.75	4400	0.28
50, 63	JAF63-18-150	18	1.5	61.5	65	_	45	41	12	9	13.5	27	34.5	15	1	11000	0.63
80	JAF80-22-150	22	1.5	76.5	75	-	55	50	16	11	16	32	43.5	18	1.25	18000	1.15
100	JAF100-26-150	26	1.5	94	90	-	65	59.5	19	11	20	41	52	24	2	28000	2.07
125, 140	JAF140-30-150	30	1.5	131	125	-	82	79	24	18	22	46	73.5	38	2.5	36000	5.2
160	JAF160-36-150	36	1.5	152	150	-	100	96	29	22	24	55	86	42	3	55000	9
Semi-sta	ndard Pneumatio	: Up to	1 MPa	Hyd	raulic	: Up t	o 3.5	MPa									
20	JAF20-8-100	8	1	32.5	19	48	36	21	6	6.6	7	13	19	8	0.5	1100	0.08
25	JAF25-10-150	10	1.5	36	25	52	40	24	6	6.6	8	17	20.5	9	0.5	2500	0.12
32	JAF32-10-100	10	1	36	25	52	40	24	6	6.6	8	17	20.5	9	0.5	2500	0.12
32, 40	JAF40-12-125	12	1.25	49	32	70	52	31	9	9	11	22	27	13	0.75	4400	0.28
40	JAF40-12-150	12	1.5	49	32	70	52	31	9	9	11	22	27	13	0.75	4400	0.28
32, 40	JAF40-12-175	12	1.75	49	32	70	52	31	9	9	11	22	27	13	0.75	4400	0.28
50	JAF50-16-150	16	1.5	61.5	65	-	45	41	12	9	13.5	27	34.5	15	1	11000	0.63
50, 63	JAF63-16-200	16	2	61.5	65	-	45	41	12	9	13.5	27	34.5	15	1	11000	0.63
80	JAF80-20-250	20	2.5	76.5	75	-	55	50	16	11	16	32	43.5	18	1.25	18000	1.15
100	JAF100-24-300	24	3	94	90	-	65	59.5	19	11	20	41	52	24	2	28000	2.07
100	JAF100-27-150	27	1.5	94	90	-	65	59.5	19	11	20	41	52	24	2	28000	2.07
125	JAF125-27-200	27	2	106	100	-	72	66	21	18	20	41	60	24	2	28000	2.8
160	JAF160-33-200	33	2	152	150	-	100	96	29	22	24	55	86	42	3	55000	9

D-□ -**X**□

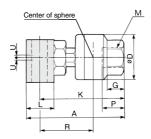
Technical Data

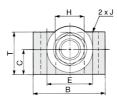
1147

JA Series

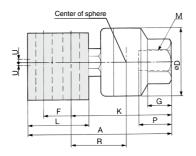
Foot Type: JAL20 to JAF160

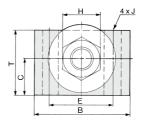
JAL20 to 100





JAL125 to 160





(mm)

Applicable		r	VI		_	_	_	_	_	.,	١. ا	_			٠	Center of	Maximum	Allowable	Maximum operating tension and	Weight
bore size (mm)	Model	Nominal size	Pitch	Α	В	С	D	Е	F	K	_	T	7	G	Н	sphere R	thread depth P	eccentricity U	compression force (N)	(kg)
Standa	ard Pneumatic:	Up to	1 MPa	. Нус	Iraulio	c: Up	to 3.5	MP	a											
20	JAL20-8-125	8	1.25	44	30	11.5	21	18	-	38	12	19	6.6	7	13	24.5	8	0.5	1000	0.09
25, 32	JAL30-10-125	10	1.25	52	42	14	24	24	-	44	16	25	9	8	17	28.5	9	0.5	2000	0.18
40	JAL40-14-150	14	1.5	67	52	17.5	31	30	-	57.5	19	30	11	11	22	35.5	13	0.75	4400	0.36
50, 63	JAL63-18-150	18	1.5	82.5	56	23	41	34	ı	71.5	22	38	11	13.5	27	44.5	15	1	9000	0.61
80	JAL80-22-150	22	1.5	98.5	70	28	50	42	ı	86	25	47	14	16	32	53	18	1.25	14000	1.09
100	JAL100-26-150	26	1.5	123	80	35	59.5	48	ı	107	32	58	16	20	41	65	24	2	22000	2.03
125, 140	JAL140-30-150	30	1.5	187	96	45	79	60	44	125	80	79	18	22	46	67.5	38	2.5	36000	6.4
160	JAL160-36-150	36	1.5	213	116	55	96	74	48	144	90	89	22	24	55	78	42	3	55000	10
Semi-s	standard Pneu	matic:	Up to	1 MP	a Hy	/drau	lic: Up	to 3	3.5 N	1Pa										
20	JAL20-8-100	8	1	44	30	11.5	21	18	-	38	12	19	6.6	7	13	24.5	8	0.5	1000	0.09
25	JAL25-10-150	10	1.5	52	42	14	24	24	-	44	16	25	9	8	17	28.5	9	0.5	2000	0.18
32	JAL32-10-100	10	1	52	42	14	24	24	ı	44	16	25	9	8	17	28.5	9	0.5	2000	0.18
32, 40	JAL40-12-125	12	1.25	67	52	17.5	31	30	-	57.5	19	30	11	11	22	35.5	13	0.75	4400	0.36
40	JAL40-12-150	12	1.5	67	52	17.5	31	30	-	57.5	19	30	11	11	22	35.5	13	0.75	4400	0.36
32, 40	JAL40-12-175	12	1.75	67	52	17.5	31	30	-	57.5	19	30	11	11	22	35.5	13	0.75	4400	0.36
50	JAL50-16-150	16	1.5	82.5	56	23	41	34	-	71.5	22	38	11	13.5	27	44.5	15	1	9000	0.61
50, 63	JAL63-16-200	16	2	82.5	56	23	41	34	-	71.5	22	38	11	13.5	27	44.5	15	1	9000	0.61
80	JAL80-20-250	20	2.5	98.5	70	28	50	42	-	86	25	47	14	16	32	53	18	1.25	14000	1.09
100	JAL100-24-300	24	3	123	80	35	59.5	48	-	107	32	58	16	20	41	65	24	2	22000	2.03
100	JAL100-27-150	27	1.5	123	80	35	59.5	48	-	107	32	58	16	20	41	65	24	2	22000	2.03
125	JAL125-27-200	27	2	155	88	38	66	54	36	102	70	69	14	20	41	56	24	2	28000	4.1
160	JAL160-33-200	33	2	213	116	55	96	74	48	144	90	89	22	24	55	78	42	3	55000	10

JA Series

Made to Order: Individual Specifications Made to Order: Individual Specifications



1 For Pneumatic Cylinders (ø180, ø200)

Symbol -X530

JA series standard type floating joint which is used for pneumatic cylinders (ø180, ø200)

* This product is dedicated to the pneumatic cylinders.



Model/Specifications

Applicable bore size		Applicable cylinder	and con	m operatin pressive f	orce (N)	Allowable eccentricity	Rotating	Ambient	
(mm)	Wodel	nominal thread size	Basic type	Flange type	Foot type	(U)	angle	temperature	
180	JA 180-40-150-X530	M40 x 1.5	71000	55000	55000	2	5°	-5 to 60°C	
200	JA□200-45-150-X530	M45 x 1.5	71000	55000	33000	٥	5	-5 10 60 C	

Specifications

Operating pressure	Pneumatic cylinder: 1 MPa or less								
Mounting	Basic type, Flange type, Foot type								
Operating rar <i>ਐੱਸ਼</i> ਸੂਰੂਰਹਿ	Genter of sphere								

How to Order



Mounting type Nil Basic type Flange type Foot type

For pneumatic cylinders (ø180, ø200)

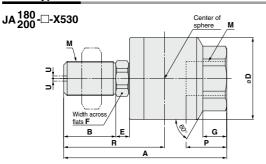
Applicable bore size

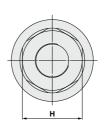
Symbol	Applicable bore size
180	180 mm
200	200 mm

Nominal thread size

Nominal thread size	Applicable cylinder nominal thread size
40-150	M40 x 1.5
45-150	M45 x 1.5

Basic Type: JA





Dimens	sions														(mm)
Applicable bore size		Nominal size	/I Pitch	A	В	D	E	F	G	н	Center of sphere	Maximum screw-in depth P	Allowable eccentricity	Maximum operating tensile and compressive force (N)	Weight (kg)
180	JA180-40-150-X530		1.5	191	61	96	16	36	28	70	118	49	3	71000	5.3
200	JA200-45-150-X530	45	1.5	191	61	96	16	36	28	70	118	49	3	71000	5.4

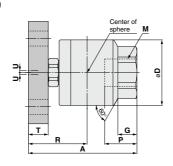
D-

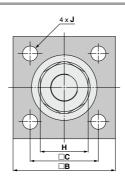


JA Series

Flange Type: JAF

 JAF_{200}^{180} - \square -X530





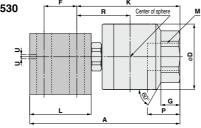
Dimensions

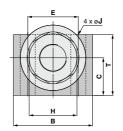
(mm)

Applicable bore size		Nominal size	Pitch	A	В	С	D	т	J	G	н	Center of sphere	Maximum screw-in depth P	Allowable eccentricity	Maximum operating tensile and compressive force (N)	Weight (kg)
180	JAF180-40-150-X530	40	1.5	159	150	100	96	29	22	28	70	86	49	3	55000	9.1
200	JAF200-45-150-X530	45	1.5	159	150	100	96	29	22	28	70	86	49	3	55000	9.2

Foot Type: JAL

JAL ¹⁸⁰₂₀₀-□-X530





Dimensions

(mm)

Applicable bore size		Nominal size	/I Pitch	A	В	С	D	E	F	к	L	т	J	G	н	Center of sphere	Maximum screw-in depth P		Maximum operating tensile and compressive force (N)	Weight (kg)
180	JAL180-40-150-X530	40	1.5	220	116	55	96	74	48	151	90	89	22	28	70	78	49	3	55000	10.3
200	JAL200-45-150-X530	45	1.5	220	116	55	96	74	48	151	90	89	22	28	70	78	49	3	55000	10.4

Rod End Nut

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





					(mm)
Model	Order no.	d: Nominal thread size	Н	В	С
JA180-40-150-X530	DA00425	M40 x 1.5	23	60	69.3
JA200-45-150-X530	DA00447	M45 x 1.5	27	70	80.8

Floating Joint Replacement Parts

Dust cover

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

Replaceable dust cover is only for the basic type. Flange type and foot type cannot be replaced.

Part no. for dust cover	Applicable model
P215295	JA180, 200-□-X530

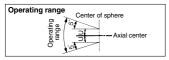
Floating Joint: Heavy Load Type

JAH Series



Specifications

Operating pressure	Hydraulic cylinder: 7 MPa or less
Mounting	Basic type, Flange type, Foot type









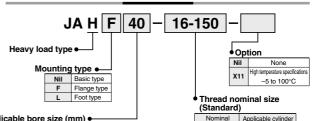


(Flange type)

Specifications

Model	Applicable bore size	Applicable cylinder nominal		n operating		eccenticity	Rotating angle	Ambient temperature
	(mm)	thread size	Basic type	Flange type	Foot type	U (mm)	arryic	iciliperature
Standard/Thre	ad nom	inal size						
JAH 40-16-150	40	M16 x 1.5	11000	9000	9000	1.25		
JAH 50-20-150	50	M20 x 1.5	18000	14000	14000	2		
JAH 63-24-150	63	M24 x 1.5	28000	22000	22000	2	±5°	
JAH_80-30-150	80	M30 x 1.5	54000	36000	36000	2.5		
JAH_100-39-150	100	M39 x 1.5	71000	55000	55000	3		-5 to 60°C
JAH 100-48-150	100	M48 x 1.5	71000	55000	55000	3		
Semi-standard	/Thread	d nomina	al size					
JAH 63-24-200	63	M24 x 2	28000	22000	22000	2		
JAH 80-30-200	80	M30 x 2	54000	36000	36000	2.5	±5°	
JAH 100-42-300	100	M42 x 3	71000	55000	55000	3		

How to Order



Applicable bore size (mm) ●

Model	Symbol	Applicable bore size (mm)
	40	40
Heavy load type	50	50
ea d t	63	63
Ξ B	80	80
	100	100

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.
- 4. 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.

Maintenance

nominal thread size

M16 x 1.5

M20 x 1.5

M24 x 1 5

M30 x 1.5

M39 x 1.5

thread size

16-150

20-150

24-150

30-150

39-150

48-150

⚠ 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.

∧ Caution

1. The black zinc chromate treatment is applied to the material surfaces of the case, flange and foot. However, the white deposit may rarely occur on the surface. This white deposit does not affect the product functions. However, if the white deposit becomes a problem from a viewpoint of appearance, special products with the surface treatment changed to the electroless nickel plating are also available. For details, please contact SMC

D-□





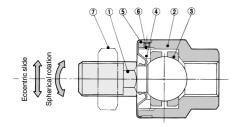
I Be sure to read this before handling I I the products. Refer to back page 50 I I for Safety Instructions.

Mounting

- 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 1152). As a rule, after the rod bottoms out, back off 1 to 2 turns.
- 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.

JAH Series

Construction



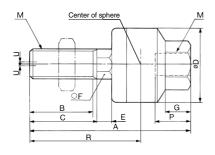
Refer to page 1145 for replacement Parts.

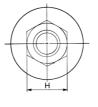
Component Parts

No.	Description	Material	Note
1	Stud	Chromium molybdenum steel	Dyed black
2	Case	Carbon steel	Black zinc chromated
3	Ring	Chromium molybdenum steel	
4	Сар	Carbon steel	Black zinc chromated
5	Dust cover	Synthetic rubber	
6	Set screw	Carbon steel	Zinc chromated
7	Rod end nut	Carbon steel	Zinc chromated
8	Flange	Rolled steel plate	Black zinc chromated
9	Foot	Rolled steel plate	Black zinc chromated

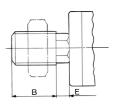
Basic Type: JAH

JAH40 to 100





Without C-dimension



(mm)

Applicable bore size (mm)	Model	Nominal size Pitch	A	В	С	D	E	F	G	н	Center of sphere R	Maximum thread depth P	Allowable eccentricity U	Maximum operating tension and compression force (N)	Weight (kg)
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Standard: Heavy Load Type Hydraulic: Up to 7 MPa

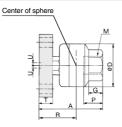
40	JAH40-16-150	16	1.5	85.5	22	25	50	9.5	19	16	32	52.5	18	1.25	11000	0.58
50	JAH50-20-150	20	1.5	101	28	31	59.5	11.5	24	16	32	64	18	2	18000	1.08
63	JAH63-24-150	24	1.5	120	32	35	66	13	27	20	41	74	24	2	28000	1.5
80	JAH80-30-150	30	1.5	152	42	45	79	14	30	22	46	94.5	38	2.5	54000	2.7
100	JAH100-39-150	39	1.5	178	52	55	96	16	36	24	55	112	42	3	71000	4.8
100	JAH100-48-150	48	1.5	191	61	-	96	16	36	28	70	118	49	3	71000	5.4

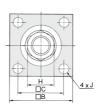
Semi-standard: Heavy Load Type Hydraulic: Up to 7 MPa

		· · ,	P ,	a. aa	o. Op											
63	JAH63-24-200	24	2	120	32	35	66	13	27	20	41	74	24	2	28000	1.5
80	JAH80-30-200	30	2	152	41	45	79	14	30	22	46	94.5	38	2.5	54000	2.7
100	JAH100-42-300	42	3	178	55	_	96	16	36	24	55	112	42	3	71000	4.8

Flange Type: JAHF

JAHF40 to 100

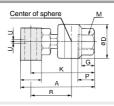




																(111111)
Applicable bore size (mm)	Model	Nominal size		A	В	С	D	Т	J	G	н	Center of sphere	Maximum thread depth P	Allowable eccentricity	Maximum operating tension and compression force (N)	Weight (kg)
Standard	: Heavy Load Ty	уре Ну	draulic:	Up to	7 MI	Pa										
40	JAHF40-16-150	16	1.5	76	75	50	50	15	11	16	32	43	18	1.25	9000	1.25
50	JAHF50-20-150	20	1.5	89	100	62	59.5	18	14	16	32	52	18	2	14000	2.5
63	JAHF63-24-150	24	1.5	106	100	72	66	21	18	20	41	60	24	2	22000	2.8
80	JAHF80-30-150	30	1.5	131	125	82	79	24	18	22	46	73.5	38	2.5	36000	5.2
100	JAHF100-39-150	39	1.5	152	150	100	96	29	22	24	55	86	42	3	55000	9
100	JAHF100-48-150	48	1.5	159	150	100	96	29	22	28	70	86	49	3	55000	9.3
Semi-star	ndard: Heavy Lo	ad Ty	ре Ну	drauli	c: Up	to 7 N	ИРа									
63	JAHF63-24-200	24	2	106	100	72	66	21	18	20	41	60	24	2	22000	2.8
80	JAHF80-30-200	30	2	131	125	82	79	24	18	22	46	73.5	38	2.5	36000	5.2
100	1AUE100 40 200	- 40	_	450	450	400							- 40	_	==000	_

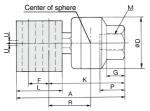
Foot Type: JAHL

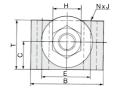
JAHL40, 50





JAHL63 to 100





Applicable bore size (mm)	NA - d - l	Nominal size	/I Pitch	A	В	С	D	E	F	κ	L	т	N	J	G			Maximum thread depth P		operating tension and compression force (N)	Weight (kg)
Standa	rd: Heavy Loa	d Ty	ре⊦	Hydrai	ılic: L	Jp to	7 MF	a													
40	JAHL40-16-150	16	1.5	98.5	70	28	50	42	-	86	25	47	2	14	16	32	53	18	1.25	9000	1.09
50	JAHL 50-20-150	20	1.5	123	80	35	59.5	48	_	107	32	58	2	16	20	41	65	24	2	14000	2.03

40	JAHL40-16-150	16	1.5	98.5	70	28	50	42	-	86	25	47	2	14	16	32	53	18	1.25	9000	1.09
50	JAHL50-20-150	20	1.5	123	80	35	59.5	48	-	107	32	58	2	16	20	41	65	24	2	14000	2.03
63	JAHL63-24-150	24	1.5	155	88	38	66	54	36	102	70	69	4	18	20	41	56	24	2	22000	4.1
80	JAHL80-30-150	30	1.5	187	96	45	79	60	44	125	80	79	4	18	22	46	67.5	38	2.5	36000	6.4
100	JAHL100-39-150	39	1.5	213	116	55	96	74	48	144	90	89	4	22	24	55	78	42	3	55000	10
100	JAHL100-48-150	48	1.5	220	116	55	96	74	48	151	90	89	4	22	28	70	78	49	3	55000	10.5
0	WHILE TO THE TOTAL THE SECOND TO THE SECOND																				

	andard: Heav											
63	JAHL63-24-200	24	2	155	88	38	66	54	36	102	70	Γ

63	JAHL63-24-200	24	2	155	88	38	66	54	36	102	70	69	4	18	20	41	56	24	2	22000	4.1
80	JAHL80-30-200	30	2	187	96	45	79	60	44	125	80	79	4	18	22	46	67.5	38	2.5	36000	6.4
100	JAHL100-42-300	42	3	213	116	55	96	74	48	144	90	89	4	22	24	55	78	42	3	55000	10



D-□ -X□

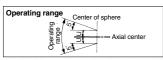
Floating Joint: For Compact Cylinders

JB Series



Specifications

Operating	Air pressure compact cylinder
pressure	1 MPa or less

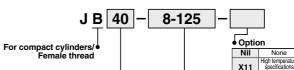




Specifications

opecinication							
Model	Applicable bore size	Applicable cylinder nominal thread	cylinder and compression force (N)		Allowable eccentricity Rotatin		Ambient temperature
	(mm)	size	Compression side	Tension side	U (mm)	angle	terriperature
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	±5°	-5 to 60°C
JB63-10-150	50, 63	M10 x 1.5	11000	3100	1	13	-5 10 00 0
JB80-16-200	80	M16 x 2	18000	5000	1.25		
JB100-20-250	100	M20 x 2.5	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



Applicable bore size (mm) •-

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				

ŧ	Thr	ea	d	no	mi	na	l	siz	ze
Г		-	-				-		

-5 to 100°C

Applicable cylinder			
nominal thread size			
M3 x 0.5			
M4 x 0.7			
M5 x 0.8			
M6 x 1			
M8 x 1.25			
M10 x 1.5			
M16 x 2			
M20 x 2.5			
M22 x 2.5			
M24 x 3			

⚠ Precautions

Be sure to read this before handling
the products. Refer to back page 50
for Safety Instructions.

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 1155). As a rule, after the rod bottoms out, back off 1 to 2 turns.
- 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 rijury 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.

Maintenance

⚠ Warning

1. Do not reuse if disassembled.

The threaded part cannot be removed from the rest of the joint as they are either welded together or held together using high-strength adhesive. Attempting to forcefully disassemble the joint may result in damage.

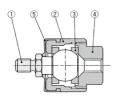
⚠ Caution

1. The black zinc chromate treatment is applied to the material surfaces of the case, flange and foot. However, the white deposit may rarely occur on the surface. This white deposit does not affect the product functions. However, if the white deposit becomes a problem from a viewpoint of appearance, special products with the surface treatment changed to the electroless nickel plating are also available. For details, please contact SMC.

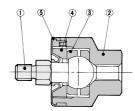


Construction

ø12, ø16



ø20 to ø160



Component Parts

No.	Description	Material	Note
1	Stud	Free-cutting steel	Electroless nickel plated
2	Case	Brass	Electroless nickel plated
3	Ring	Stainless steel	
4	Socket	Brass	Electroless nickel plated
	Dust cover	Synthetic rubber	

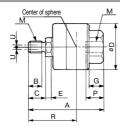
Refer to page 1145 for replacement Parts.

No.	Description	Material	Note
1	Stud	Chromium molybdenum steel	Dyed black
2	Case	Carbon steel	Black zinc chromated
3	Ring	Chromium molybdenum steel	
4	Сар	Carbon steel	Black zinc chromated
5	Dust cover	Synthetic rubber	

Basic Type: JB

JB12, 16

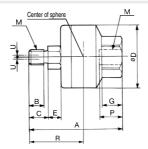


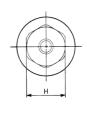




JB20 to 160







(mm)

																	(/
Applicable bore size	Model	Nominal	M Ditoh	А	В	С	D	Е	F	G	н	Center of sphere		Allowable eccentricity	and compres	erating tension sion force (N)	Weight (kg)
(mm)		size	FILCH									R	depth P	U	Compression	Tension	(kg)
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	0.8	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	17	22	79	14	30	22	46	71.5	38	2.5	54000	15300	2.6
160	JB160-24-300	24	વ	149	20	26	96	16	36	24	55	83	42	3	71000	20000	4.5





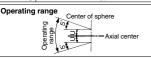
Floating Joint: Stainless Steel Type

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 I the products. Refer to back page 50 I I for Safety Instructions.

Mounting

∧ Warning

- 1. For the screw-in depth of the female threads, refer to the dimensions (page 1158).
- 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.

- 4. 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.

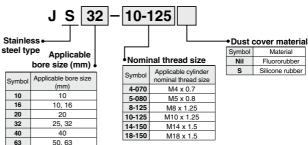
Considerations

Specification	ons								
	Applicable	Applicable operating Allowah		Allowable	Operating	pressure	Ambient		
Model	bore size nominal tensi		bore size nominal tension and eccentricity				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	3.5 MP	1 MPa			E to 700C
JS32-10-125	25, 32	M10 x 1.25	2500	0.5		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					

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.

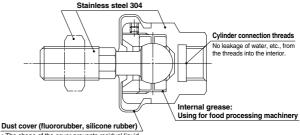
How to Order



Note) 80 80 100 100

Made to Order: Individual Specifications -X530 Note) For details, refer to page 1159.

For pneumatic cylinders



The shape of the cover prevents residual liquid.

Improved sealing

Maintenance

∆ Warning

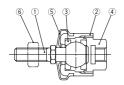
1. Do not reuse if disassembled.

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.

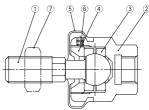


Construction

ø10, ø16



ø**20 to** ø**63**



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	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.

Madal	Part no. for dust cover					
Model	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

D-□ -X□

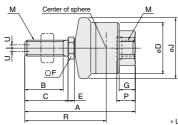
Data

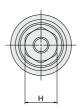


JS Series

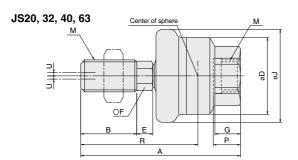
Dimensions

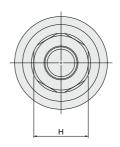
JS10, 16





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





(mm)

Model	М	A	В	С	D	E	F	G	н	J	Center of sphere	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

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.

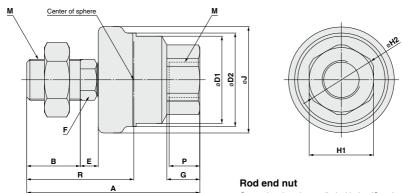
Model/Specifications

_		Applica	ble cylinder	Maximum operating	Allowable	Ambient		
Model	Bore size (mm) Note)	Nominal thread size	Dust cover material	Operating pressure	tensile and compressive force	eccentricity U (mm)	temperature (°C)	Weight (kg)
JS80-22-150-X530	ø80 ø100	M22 x 1.5	Fluororubber	1 MPa or less	5000	1.25	5 to 70	0.58
JS80-22-150S-X530			Silicone rubber					
JS100-26-150-X530		M26 x 1.5	Fluororubber		7850	2		1.05
JS100-26-150S-X530			Silicone rubber					1.05

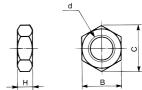
Note) Think of applicable bore size as a guide. For details, confirm the rod end thread diameter of a cylinder to be used in the catalog.

Dimensions

JS100-26-150(S)-X530 M26 x 1.5 110



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: Nominal thread size	Н	В	С
S80-22-150(S)-X530	DA00243	M22 x 1.5	13	32	37
S100-26-150(S)-X530	DA00189	M26 x 1.5	16	41	47.3

19.5

Dimensions (mm) Maximum thread depth Weight Model В D1 D2 Е F G H1 H2 eccentricity (kg) U (N) JS80-22-150(S)-X530 M22 x 1.5 89.5 9.9 46 50 19 16.8 32 34.7 57.2 56.5 0.58 14 1.25 5000

44.4

66.2

21 SMC

55.5

59.5 11.4 D-□

7850