

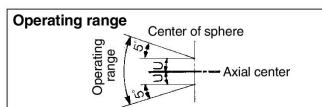
# Floating Joint: Heavy Load Type

# JAH Series

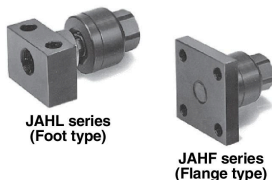
RoHS

## Specifications

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



JAH series



JAHL series  
(Foot type)

JAHF series  
(Flange type)

## Specifications

Model	Applicable bore size (mm)	Applicable cylinder nominal thread size	Maximum operating tension and compression force (N)			Allowable eccentricity U (mm)	Rotating angle	Ambient temperature
			Basic type	Flange type	Foot type			
Standard/Thread nominal size								
JAH□40-16-150	40	M16 x 1.5	11000	9000	9000	1.25	±5°	-5 to 60°C
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		
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		
JAH□100-48-150	100	M48 x 1.5	71000	55000	55000	3		
Semi-standard/Thread nominal size								
JAH□63-24-200	63	M24 x 2	28000	22000	22000	2	±5°	
JAH□80-30-200	80	M30 x 2	54000	36000	36000	2.5		
JAH□100-42-300	100	M42 x 3	71000	55000	55000	3		

## How to Order

**JAH F 40 - 16-150**

Heavy load type

Mounting type

Nil	Basic type
F	Flange type
L	Foot type

Applicable bore size (mm)

Model	Symbol	Applicable bore size (mm)
Heavy load type	40	40
	50	50
	63	63
	80	80
	100	100

Option

Nil	None
X11	High temperature specifications -5 to 100°C

Thread nominal size (Standard)

Nominal thread size	Applicable cylinder nominal thread size
16-150	M16 x 1.5
20-150	M20 x 1.5
24-150	M24 x 1.5
30-150	M30 x 1.5
39-150	M39 x 1.5
48-150	M48 x 1.5

## Precautions

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

## 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 1152). 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.

- To use a floating joint to connect the cylinder rod to a driven body, secure it in place by applying a torque that is appropriate for the thread size. Also, if there is a risk of loosening during operation, take measures to prevent loosening, such as using a locking pin or thread adhesive. In the event that the connected portion becomes loose, the driven body might lose control or fall off, leading to equipment damage or injury to personnel.
- This product is not a rotary joint. So, the product cannot be used for rotational or rotation acting applications.
- Be sure to use the cushion mechanism of the cylinder or the buffer mechanism, such as the shock absorber so that any impact force is not applied to the floating joint when stopping a driven body. If there is no buffer mechanism, an excessive impact force is generated. As a result, the tensile compression force of the floating joint may exceed its maximum level.

## 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.

### Caution

- 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.