

Hydraulic Oil /Positive air pressure/ Negative air pressure /Coolant Auto Coupler

Model JVA/JVB

Model JVC/JVD

Model JVE/JVF

Model JNA/JNB

Model JNC/JND

Model JLP/JLS

Model JTA/JTB



Coupler to Connect Fluid Circuit

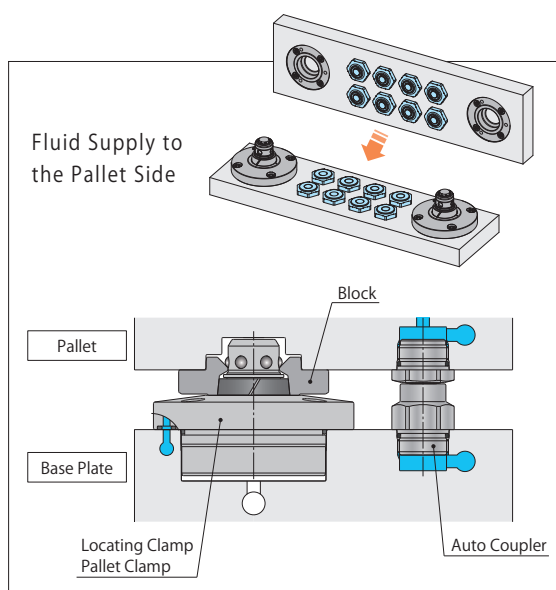
Compact and applicable to various fluids and flow rates.

● What is Auto Coupler?

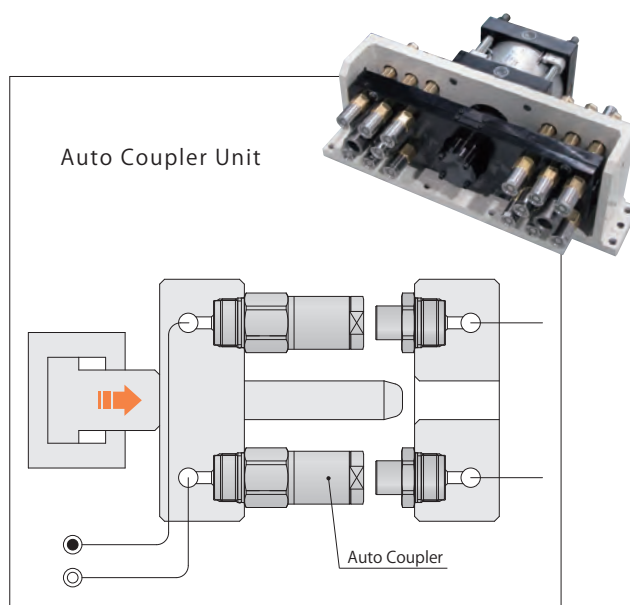
Auto coupler, designed to connect a variety of flow circuits, is suitable for automation and fits in small spaces. We can offer based on your requirement.

※ The auto coupler does not have non-leak mechanism. In case you need the non-leak function, please refer to "Non-Leak Coupler" on KWCS Complete Catalog or visit our website (<http://www.kosmek.com>).

Application Examples

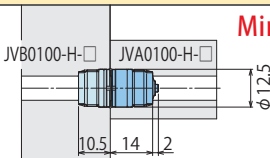
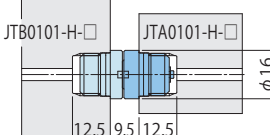
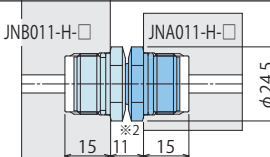
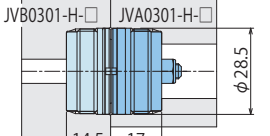
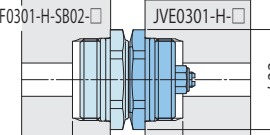
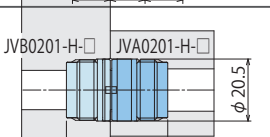
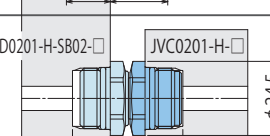
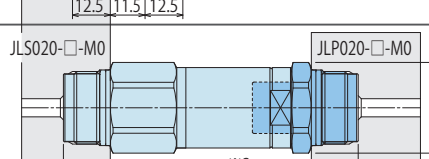
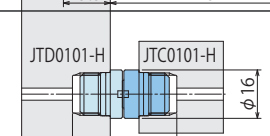
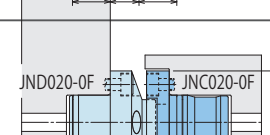
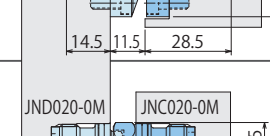


Connecting from the Pallet Bottom



Connecting from Outside

Variation

Usable Fluid	Pressure Range	Comparison of Auto Coupler Connected Dimension ※ The shortest dimension combination of each coupler model.	Model No.
Positive air pressure / Negative air pressure			
	1MPa or less	 Min. Passage Area : 8mm² Minimum Size	Model JVA0100/JVB0100 NEW → P.827
	1MPa or less	 Min. Passage Area : 5mm²	Model JTA/JTB → P.861
	1MPa or less	 Min. Passage Area : 8.8mm² (At Eccentricity : 7.4mm²)	Model JNA/JNB → P.847
	1MPa or less	 Min. Passage Area : 29.0mm²	Model JVA0301/JVB0301 → P.835
	1MPa or less	 Min. Passage Area : 29.0mm²	Model JVE/JVF → P.843
	7MPa or less	 Min. Passage Area : 12.6mm²	Model JVA0201/JVB0201 → P.831
	7MPa or less	 Min. Passage Area : 12.6mm²	Model JVC/JVD → P.839
	3.5MPa or less 25MPa or less ※ Depends on the material of the product.	 Min. Passage Area※1 29.0mm²	Model JLP/JLS → P.857
	7MPa or less	 Min. Passage Area : 5mm²	Model JTC/JTD → Please refer to our website for details.
	25MPa or less	 Min. Passage Area : 10.3mm²	Model JNC/JND → P.853
		 Min. Passage Area : 10.3mm²	

※1. The minimum passage area of JLP/JLS differs depending on size.

※2. It shows the connecting dimension on multiple connection.

1. Please refer to each page for detail.

Locating
+
Clamp

Locating

Hand • Clamp

Support

Valve • Coupler

Electric Drive •
Conveyor

Cautions • Others

Air Safety Valve

BWS

Air
Sequence Valve

BWD

Auto Coupler

JVA/JVB0100

JVA/JVB0201

JVA/JVB0301

JVC/JVD

JVE/JVF

JNA/JNB

JNC/JND

JLP/JLS

JTA/JTB

Leakless Coupler

JWC/JWD

Rotary Joint

JR

Auto Coupler

Model JVA0100/JVB0100

Positive/Negative air pressure
(Operating Pressure Range : lower than 1MPa)



※This is a full-scale photo.

100% Stainless Steel

JVA0100/JVB0100 Feature

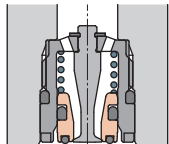
The new auto coupler is **designed to be as compact as possible**, and maximizes passage area.
Connection stroke is 1mm, and it is easily used with Screw Locator (model VXE/VXF) for quick change.

- ※ The auto coupler does not have the non-leak function. In case you need the non-leak function, please refer to "Non-Leak Coupler" on KWCS Complete Catalog or visit our website (<http://www.kosmek.com>).
- ※ No copper (Cu) or zinc (Zn) based materials are used.
Stainless steel and aluminum materials may contain copper (Cu) and zinc (Zn) as additive elements.

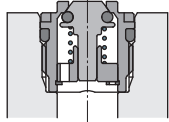
Action Description

Disconnected State

JVA (Fixture Side)



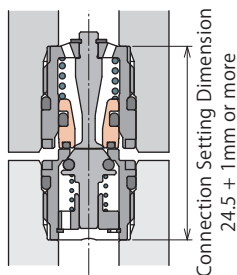
JVB (Pressure Source Side)



In the Process of Connecting (Pallet Setting)

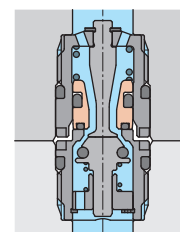
① When Not Using with Screw Locator

Reaction force is not generated at the distance of 1mm or further than the connection setting dimensions (24.5mm).
Reaction force is generated at the distance of 1mm or less than the connection setting dimensions (24.5mm).



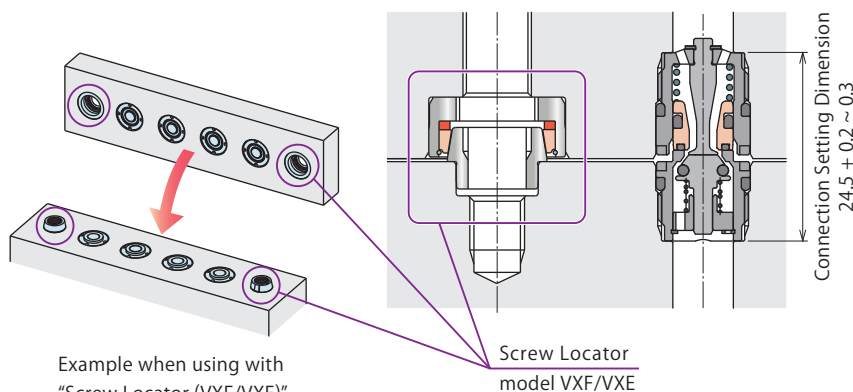
Connected State

The reaction force is generated by the built-in spring and the pressure of provided fluid.



② When Using with Screw Locator (VXF/VXE)

The reaction force (spring force) is generated when setting up the pallet because the stroke of "Screw Locator" is 0.2 ~ 0.3mm.
If using a light pallet, it may be lifted up when tightening.



Example when using with
"Screw Locator (VXF/VXE)"

Screw Locator
model VXF/VXE

Model No. Indication

JV B 010 0 - H - CR

1 2 3 4

1 Style

- A** : O-ring side of Connection Surface
(Outgoing Side / Fixture Side)
- B** : Metal Side of Connection Surface
(Incoming Side / Pressure Source Side)

2 Design No.

0 : Revision Number

3 Material

H : Stainless Steel, Fluor Rubber

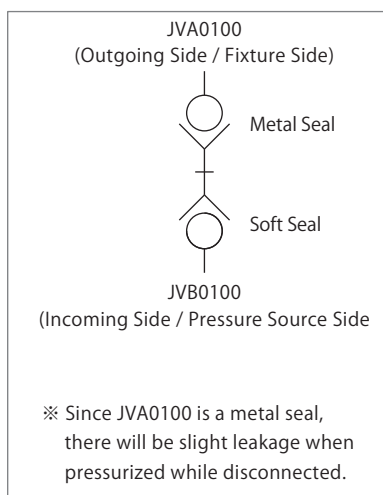
4 Grease

- Blank** : NBU8EP made by NOK KLUEBER (Standard)
- CR** : AFF made by THK (For clean environment)
- FD** : NH1 64-422 made by NOK KLUEBER
(For food machinery)

Specifications

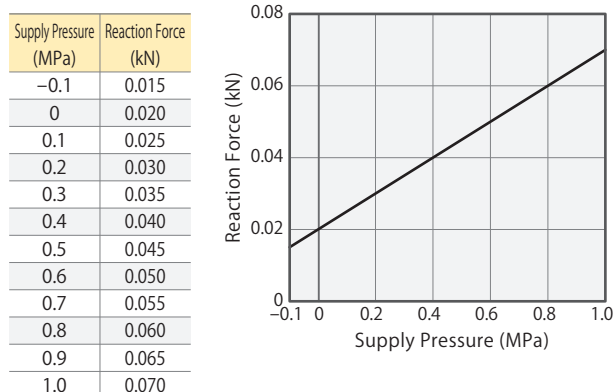
Model No.	Fixture Side		JVA0100-H-□
	Pressure Source Side		JVB0100-H-□
Max. Operating Pressure	MPa		1.0
Withstanding Pressure	MPa		1.5
Min. Passage Area	mm ²		8
Offset Distance (Tolerance)	mm		±0.5
Angular Deviation (Tolerance)	DEG.		0.3
Operating Temperature	°C		0 ~ 120
Usable Fluid		Positive / Negative air pressure	
Reaction Force	kN	at 0.5 MPa	0.045
		at P MPa	$0.050 \times P + 0.02$
Weight	g	JVA0100	8
		JVB0100	6

Circuit Symbol



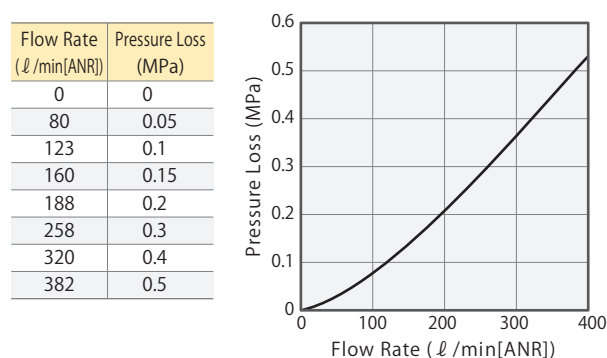
Supply Pressure—Reaction Force Graph

The graph shows the reaction force when supplying pressure after the connection of JVA0100/JVB0100 is completed.



Flow Rate—Pressure Loss Characteristic Graph

The fluid used on this data is air.

Locating
+
Clamp

Locating

Hand • Clamp

Support

Valve • Coupler

Electric Drive •
Conveyor

Cautions • Others

Air Safety Valve

BWS

Air
Sequence Valve

BWD

Auto Coupler

JVA/JVB0100

JVA/JVB0201

JVA/JVB0301

JVC/JVD

JVE/JVF

JNA/JNB

JNC/JND

JLP/JLS

JTA/JTB

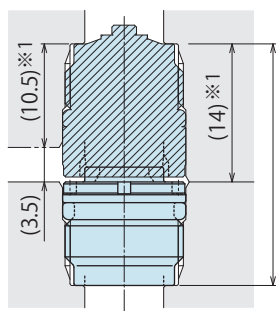
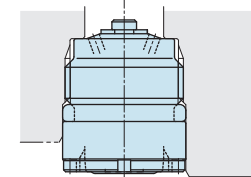
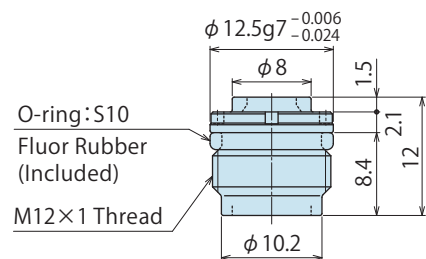
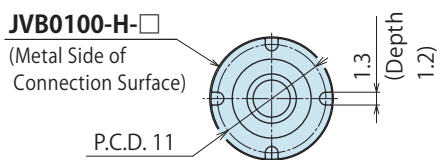
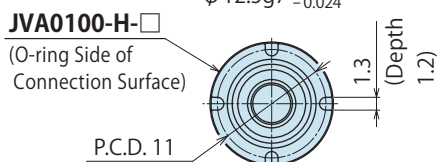
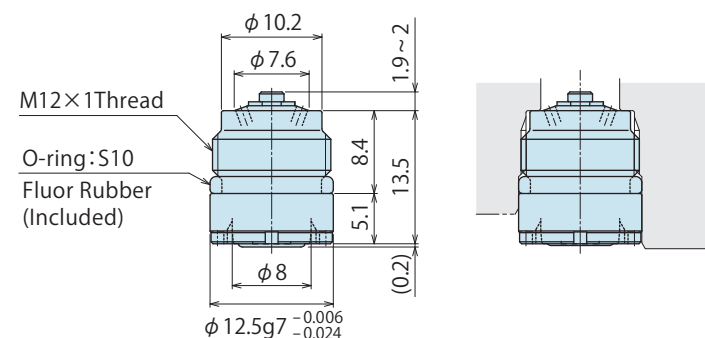
Leakless Coupler

JWC/JWD

Rotary Joint

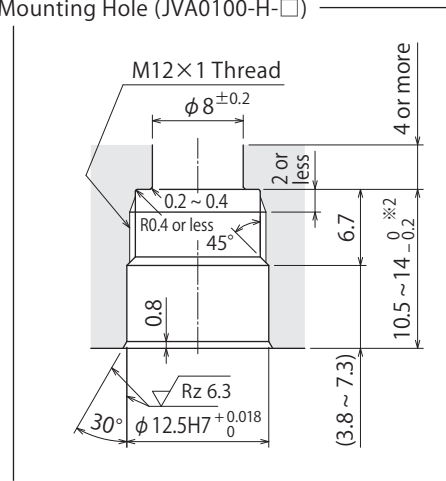
JR

External Dimensions (JVA0100/JVB0100)

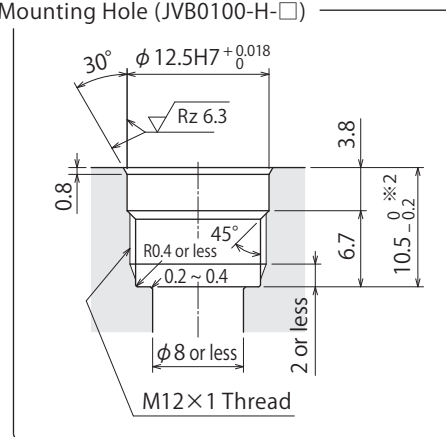


Connection Setting Dimension 24.5 ± 0.4
(Limit Dimension for Single Unit Connection 24)

Machining Dimensions for Mounting Hole (JVA0100-H-□)



Machining Dimensions for Mounting Hole (JVB0100-H-□)



Model No.	Thread Size	Tightening Torque (N·m)
JVA0100-H-□ JVB0100-H-□	M12×1	0.8

Notes :

- When ※1 dimension is 14 mm, clearance between base plate and pallet is 0 mm.
When ※1 dimension is 10.5 mm, clearance between base plate and pallet is 3.5 mm.
- For the tolerance of ※2, when using with the pallet clamp (Lift-Up Stroke 1mm) and it is required to prevent the force of spring in JVA_JVB, the tolerance of each machining depth should be ± 0.05 mm.
(Connection Setting Dimension: 24.5 ± 0.10 mm)
- Mounting Jig (Model ZZJ0060) or equivalent is required to install and remove JVA0100/JVB0100.
Mounting Jig (Model ZZJ0060) is not included with JVA0100/JVB0100. Please order separately.

Accessory : Mounting Jig

This jig is used to mount and remove the JVA0100/JVB0100.
Tightening Torque: 0.8 N·m

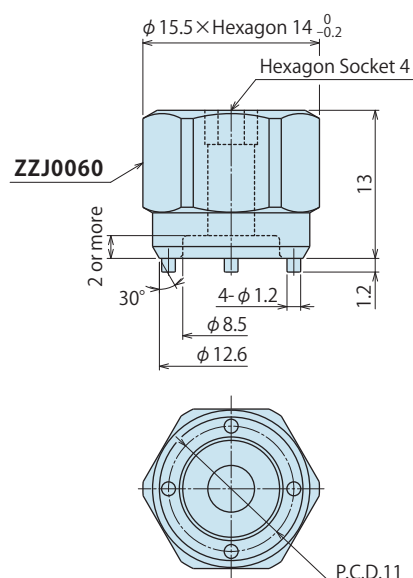
Model No. Indication

ZZJ0060

Design No.
(Revision Number)

Note :

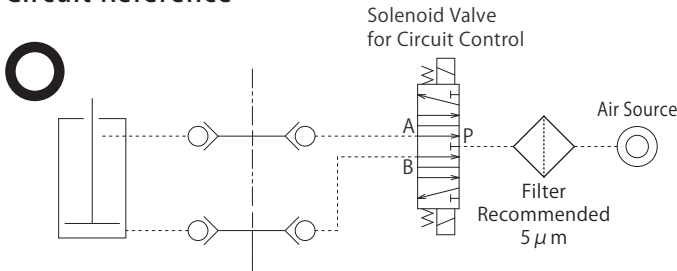
- This mounting jig (Model ZZJ0060) or equivalent is required to install and remove JVA0100/JVB0100.
Please determine the required number of jigs when ordering.



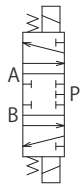
Notes for Usage (JVA0100/JVB0100)

- Do not connect or disconnect the auto coupler under pressure. (Refer to the following Circuit Reference.)
- Do not connect the coupler when contaminants are adhered on each connecting surface.
When there are cutting chips or coolant, install a cover, or remove all contaminants with air blow.
- Exceeding allowable offset leads to damage on internal parts. It is recommended to install a guide pin, etc.
- When pressing up to the connection limit, the force should be higher than the reaction force and lower than 0.25 kN.
- For mounting and removing the coupler, use the mounting jig ZZJ0060 or equivalent.

Circuit Reference



Use a 3-position exhaust center solenoid valve for circuit control, and stop providing air pressure with the center position when connecting/disconnecting JVA/JVB.

Do not use a 3-position closed center for solenoid valve for circuit control because JVA/JVB will be connected/disconnected under pressure.

Locating + Clamp
Locating
Hand • Clamp
Support
Valve • Coupler
Electric Drive • Conveyor
Cautions • Others

Air Safety Valve
BWS
Air Sequence Valve
BWD
Auto Coupler
JVA/JVB0100
JVA/JVB0201
JVA/JVB0301
JVC/JVD
JVE/JVF
JNA/JNB
JNC/JND
JLP/JLS
JTA/JTB
Leakless Coupler
JWC/JWD
Rotary Joint
JR

Auto Coupler

Model JVA0201/JVB0201

Hydraulic Oil/Positive air pressure/
Negative air pressure/Coolant
(Operating Pressure Range : lower than 7MPa)



100% Stainless Steel

JVA0201/JVB0201 Feature

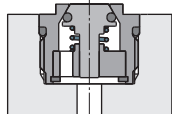
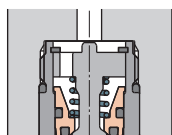
It is suitable for connecting and disconnecting fluid circuits when changing fixture pallets and tombstones. This threaded auto coupler can be easily used with "Screw Locator (VXE/VXF)".

- ※ The auto coupler does not have the non-leak function. In case you need the non-leak function, please refer to "Non-Leak Coupler" on KWCS Complete Catalog or visit our website (<http://www.kosmek.com>).
- ※ No copper (Cu) or zinc (Zn) based materials are used.
Stainless steel and aluminum materials may contain copper (Cu) and zinc (Zn) as additive elements.

Action Description

Disconnected State

JVA0201 (Fixture Side)

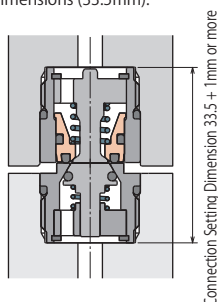


JVB0201 (Pressure Source Side)

In the Process of Connecting (During Pallet Setting)

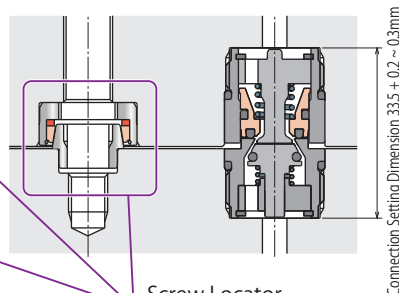
① Using without "Screw Locator"

The reaction force is not generated at the distance of 1mm or further than the connection setting dimensions (33.5mm).
Reaction force is generated at the distance of 1mm or less than the connection setting dimensions (33.5mm).



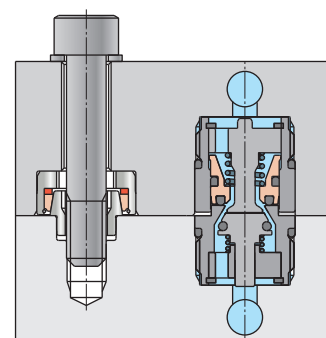
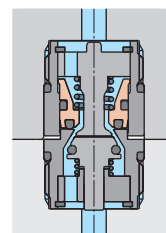
② Using with "Screw Locator"

The reaction force (spring force) is generated when setting up the pallet because the stroke of "Screw Locator" is 0.2 ~ 0.3mm. If using a light pallet, it may be lifted up when tightening.



Connected State

The reaction force is generated by the built-in spring and the supply pressure.



Example with "Screw Locator (VXE/VXF)"

Screw Locator
model VXE/VXF

Model No. Indication

JV B 020 1 - H - CR

1 2 3 4

1 Style

- A** : O-ring side of Connection Surface (Fixture Side)
B : Metal Side of Connection Surface (Pressure Source Side)

2 Design No.

- 1** : Revision Number

3 Material

- H** : Stainless Steel, Fluor Rubber

4 Grease

- Blank** : NBU8EP made by NOK KLUEBER (Standard)
CR : AFF made by THK (For clean environment)
FD : NH1 64-422 made by NOK KLUEBER
 (For food machinery)

Locating
+
Clamp

Locating

Hand • Clamp

Support

Valve • Coupler

Electric Drive •
Conveyor

Cautions • Others

Air Safety Valve

BWS

Air
Sequence Valve

BWD

Auto Coupler

JVA/JVB0100

JVA/JVB0201

JVA/JVB0301

JVC/JVD

JVE/JVF

JNA/JNB

JNC/JND

JLP/JLS

JTA/JTB

Leakless Coupler

JWC/JWD

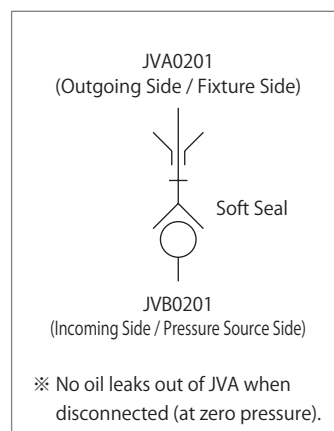
Rotary Joint

JR

Specifications

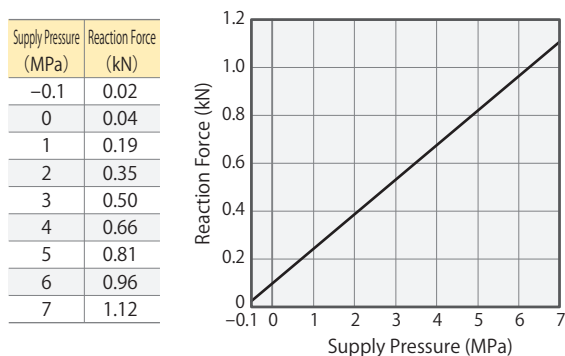
Model No.	Fixture Side	JVA0201-H-□
	Pressure Source Side	JVB0201-H-□
Max. Operating Pressure	MPa	7.0
Withstanding Pressure	MPa	10.5
Min. Passage Area	mm ²	12.6
Offset Distance (Tolerance)	mm	±0.5
Angular Deviation (Tolerance)	DEG.	0.3
Operating Temperature	°C	0 ~ 120
Usable Fluid		General Hydraulic Oil Equivalent to ISO-VG-32, Positive air pressure , Negative air pressure , Coolant
Reaction Force kN	at 7 MPa	1.12
	at 1 MPa	0.19
	at P MPa	$0.154 \times P + 0.04$
Weight g	JVA0201	30
	JVB0201	24

Circuit Symbol



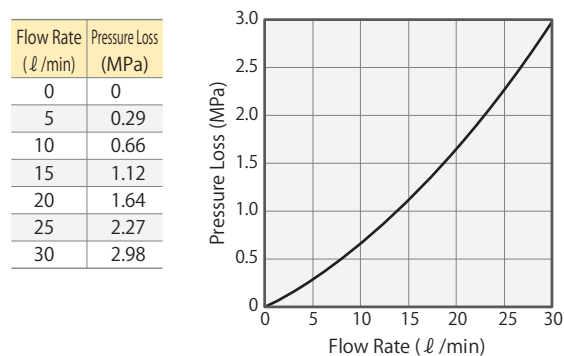
Supply Pressure—Reaction Force Graph

The graph shows the reaction force when supplying pressure after the connection of JVA0201/JVB0201 is completed.

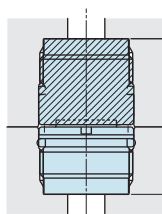
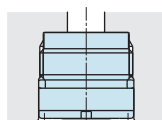
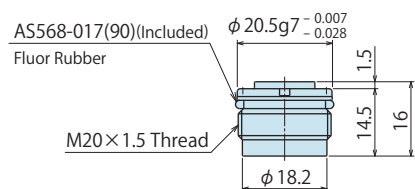
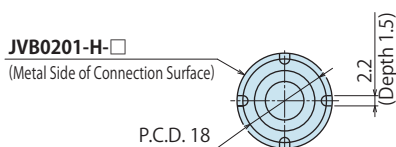
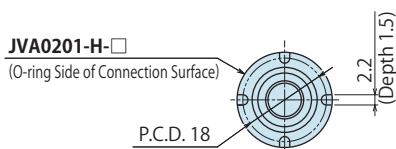
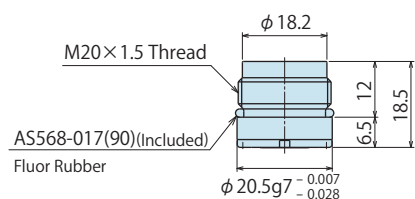


Flow Rate—Pressure Loss Characteristic Graph

The fluid used on this data is general hydraulic oil equivalent to ISO-VG-32 (30 ~ 40°C).

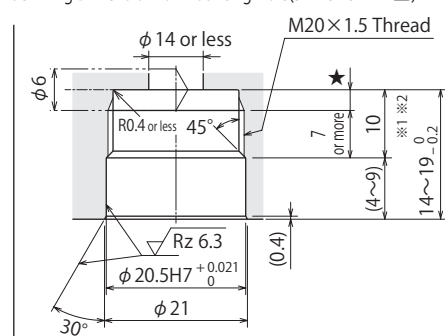


External Dimensions (JVA0201/JVB0201)



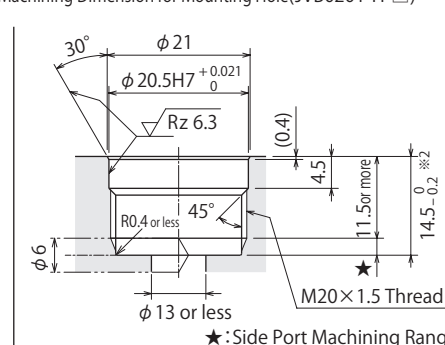
Connection Setting Dimension 33.5 ± 0.4
(Limit Dimension for Single Unit Connection 33)

Machining Dimension for Mounting Hole(JVA0201-H-□)



★: Side Port Machining Range

Machining Dimension for Mounting Hole(JVB0201-H-□)



★: Side Port Machining Range

Notes:

- When ※1 dimension is 19mm, clearance between base plate and pallet is 0mm.
When ※1 dimension is 14mm, clearance between base plate and pallet is 5mm.
- For the tolerance of ※2, when using with the pallet clamp (Lift-Up Stroke 1mm) and it is required to prevent the force of spring in JV, the tolerance of each machining depth should be ± 0.05 mm.
(Connection Setting Dimension: 33.5 ± 0.10 mm)
- Mounting Jig (Model ZZJ0020) or equivalent is required to install and remove JVA0201/JVB0201.
Mounting Jig (Model ZZJ0020) is not included with JVA0201/JVB0201. Please order separately.

Accessory : Mounting Jig

This jig is used to mount and remove the JVA0201/JVB0201.

Tightening Torque: 16N•m

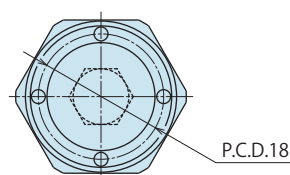
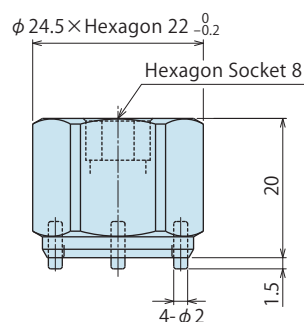
Model No. Indication

ZZJ0020

Design No.
(Revision Number)

Note:

- Mounting Jig (Model ZZJ0020) or equivalent is required to install and remove JVA0201/JVB0201.
Please determine the required number of jigs when ordering.

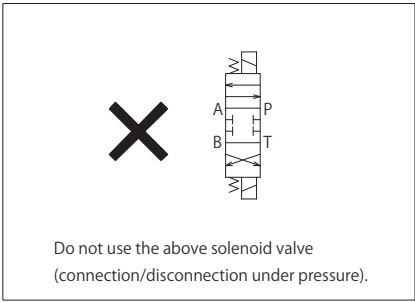
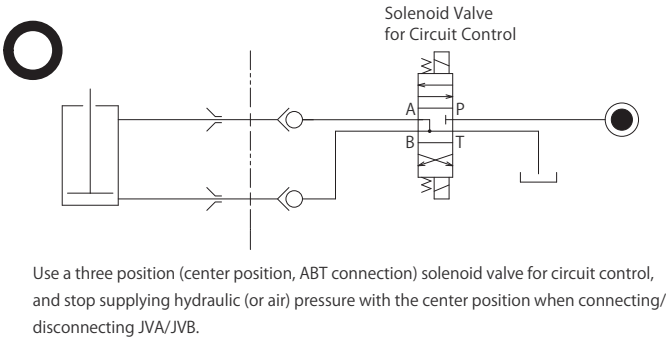


● Cautions (JVA0201/JVB0201)

1. Do not connect or disconnect the auto coupler under pressure. (Refer to the following Circuit Reference.)
2. Release the air from the circuit before use (when using hydraulic oil).
3. Do not connect the coupler when contaminants are adhered on each connecting surface.

When there are cutting chips or coolant, install a cover, or remove all contaminants with air blow.
4. If load is applied to the actuator on the fixture side while disconnected, it will be pressurized and fluid may leak from the coupler end.
5. Exceeding allowable offset leads to damage on internal parts. It is recommended to install a guide pin.
6. When pressing up to the connection limit, the force should be higher than the reaction force and lower than 3.0kN.
7. For mounting and removing the coupler, use the mounting jig (ZZJ0020) or equivalent.

● Circuit Reference



Locating + Clamp
Locating
Hand • Clamp
Support
Valve • Coupler
Electric Drive • Conveyor
Cautions • Others

Air Safety Valve
BWS
Air Sequence Valve
BWD
Auto Coupler
JVA/JVB0100
JVA/JVB0201
JVA/JVB0301
JVC/JVD
JVE/JVF
JNA/JNB
JNC/JND
JLP/JLS
JTA/JTB
Leakless Coupler
JWC/JWD
Rotary Joint
JR

Auto Coupler

Model JVA0301/JVB0301

Positive air pressure/
Negative air pressure/Coolant
(Operating Pressure Range : lower than 1MPa)



100% Stainless Steel

JVA0301/JVB0301 Feature

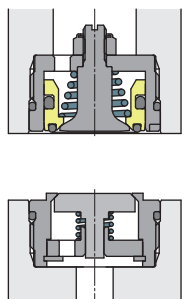
It is suitable for connecting and disconnecting fluid circuits when changing fixture pallets and tombstones. This threaded auto coupler can be easily used with "Screw Locator (VXE/VXF)".

- ※ The auto coupler does not have the non-leak function. In case you need the non-leak function, please refer to "Non-Leak Coupler" on KWCS Complete Catalog or visit our website (<http://www.kosmek.com>).
- ※ No copper (Cu) or zinc (Zn) based materials are used.
Stainless steel and aluminum materials may contain copper (Cu) and zinc (Zn) as additive elements.

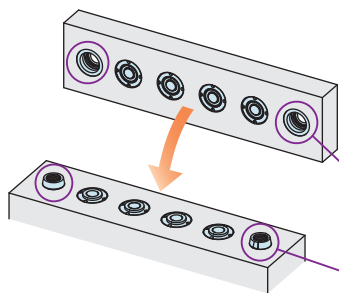
Action Description

Disconnected State

JVA0301 (Fixture Side)



JVB0301 (Pressure Source Side)

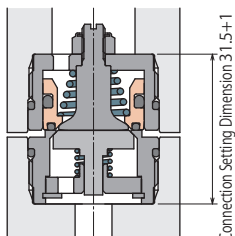


Example with "Screw Locator (VXE/VXF)"

In the Process of Connecting (During Pallet Setting)

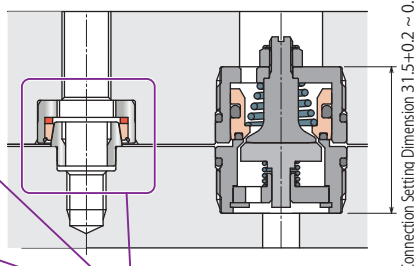
① Using without "Screw Locator"

The reaction force is not generated at the distance of 1mm or further than the connection setting dimensions (31.5mm).
The reaction force is generated at the distance of 1mm or less than the connection setting dimensions (31.5mm).



② Using with "Screw Locator (VXE/VXF)"

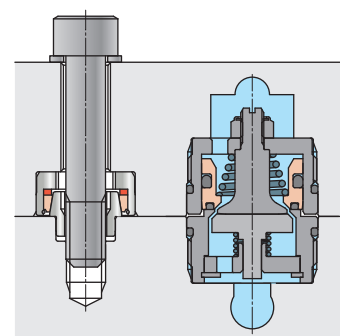
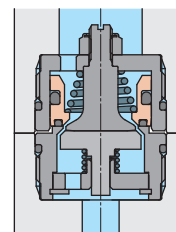
The reaction force (spring force) is generated when setting up the pallet because the stroke of "Screw Locator" is 0.2 ~ 0.3mm. If using a light pallet, it may be lifted up when tightening.



Screw Locator
model VXE/VXF

Connected State

The reaction force is generated by the built-in spring and the supply pressure.



Model No. Indication

JV B 030 1 - H - CR

1 2 3 4

1 Style

- A** : O-ring side of Connection Surface (Fixture Side)
B : Metal Side of Connection Surface (Pressure Source Side)

2 Design No.

- 1** : Revision Number

3 Material

- H** : Stainless Steel, Fluor Rubber

4 Grease

- Blank** : NBU8EP made by NOK KLUEBER (Standard)
CR : AFF made by THK (For clean environment)
FD : NH1 64-422 made by NOK KLUEBER
 (For food machinery)

Locating
+
Clamp

Locating

Hand • Clamp

Support

Valve • Coupler

Electric Drive •
Conveyor

Cautions • Others

Air Safety Valve

BWS

Air
Sequence Valve

BWD

Auto Coupler

JVA/JVB0100

JVA/JVB0201

JVA/JVB0301

JVC/JVD

JVE/JVF

JNA/JNB

JNC/JND

JLP/JLS

JTA/JTB

Leakless Coupler

JWC/JWD

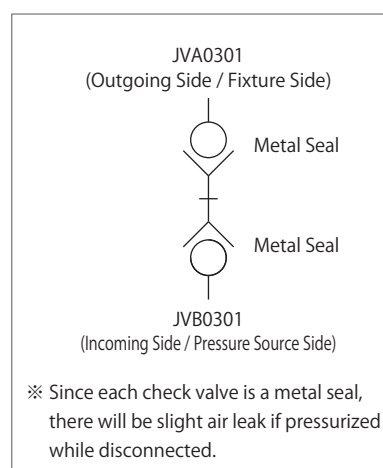
Rotary Joint

JR

Specifications

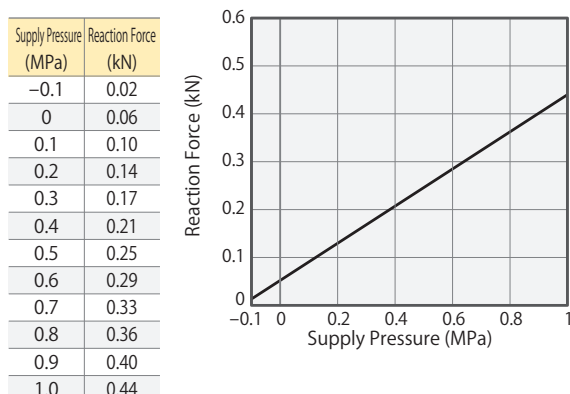
Model No.	Fixture Side	JVA0301-H-□
	Pressure Source Side	JVB0301-H-□
Max. Operating Pressure	MPa	1.0
Withstanding Pressure	MPa	1.5
Min. Passage Area	mm ²	29
Offset Distance (Tolerance)	mm	±0.5
Angular Deviation (Tolerance)	DEG.	0.3
Operating Temperature	°C	0 ~ 120
Usable Fluid		Coolant, Positive air pressure, Negative air pressure
Reaction Force kN	Operating Pressure at 1 MPa	0.44
	at 0.5 MPa	0.25
	at P MPa	$0.380 \times P + 0.06$
Weight g	JVA0301	70
	JVB0301	55

Circuit Symbol



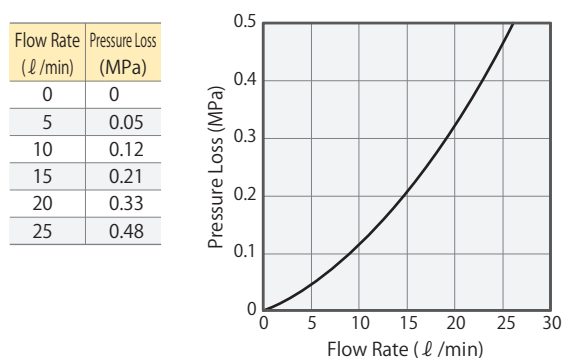
Supply Pressure—Reaction Force Graph

The graph shows the reaction force when supplying pressure after the connection of JVA0301/JVB0301 is completed.

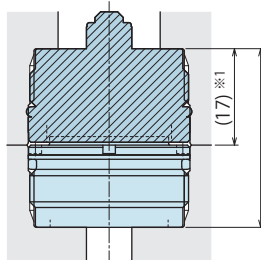
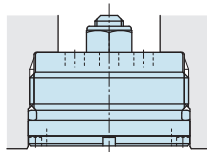
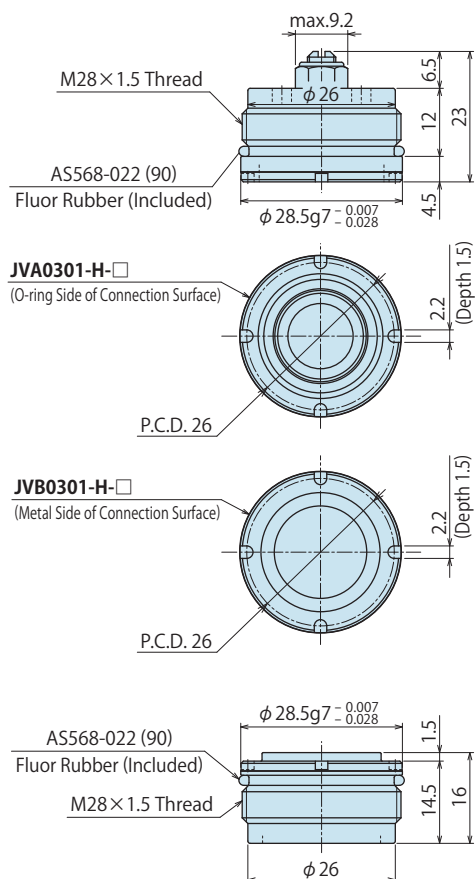


Flow Rate—Pressure Loss Characteristic Graph

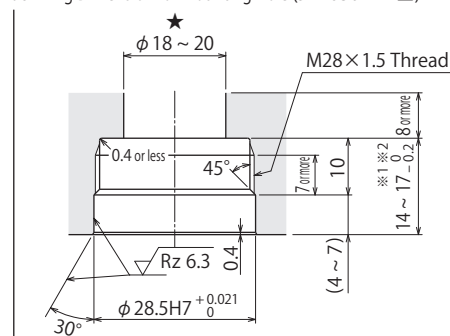
The fluid used on this data is water.



External Dimensions (JVA0301/JVB0301)

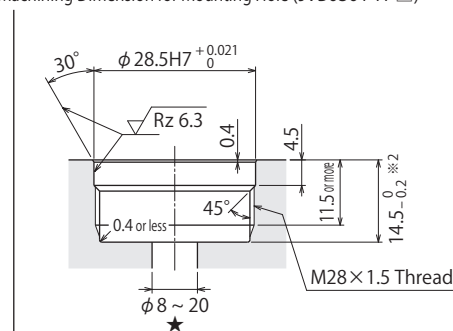


Machining Dimension for Mounting Hole (JVA0301-H-□)



★: Port machining from the side direction should be connected to ★ part.

Machining Dimension for Mounting Hole (JVB0301-H-□)



★: Port machining from the side direction should be connected to ★ part.

Notes:

- When ※1 dimension is 17mm, clearance between base plate and pallet is 0mm.
When ※1 dimension is 14mm, clearance between base plate and pallet is 3mm.
- For the tolerance of ※2, when using with the pallet clamp (Lift-Up Stroke 1mm) and it is required to prevent the force of spring in JV, the tolerance of each machining depth should be $\pm 0.05\text{mm}$.
(Connection Setting Dimension: $31.5 \pm 0.10\text{mm}$)
- Mounting Jig (Model ZZJ0030) or equivalent is required to install and remove JVA0301/JVB0301.
Mounting Jig (Model ZZJ0030) is not included with JVA0301/JVB0301. Please order separately.

Model No.	Thread Size	Tightening Torque (N·m)
JVA0301-H-□ JVB0301-H-□	M28×1.5	25

Accessory : Mounting Jig

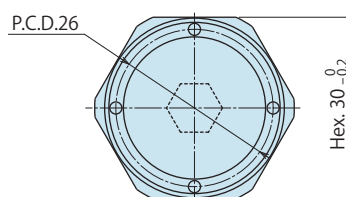
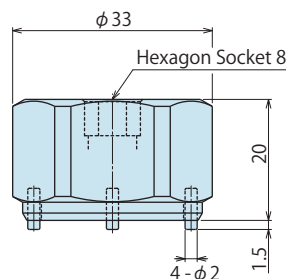
This jig is used to mount and remove the JVA0301/JVB0301.

Tightening Torque: 25N·m

Model No. Indication

ZZJ0030

Design No.
(Revision Number)



Note:

- Mounting Jig (Model ZZJ0030) or equivalent is required to install and remove JVA0301/JVB0301.
Please determine the required number of jigs when ordering.

Cautions (JVA0301/JVB0301)

1. Make sure to supply fluid after connection is completed.
2. Since each check valve is a metal seal, there will be slight fluid leaks if pressurized while disconnected.
3. Do not connect the coupler when contaminants are adhered on each connecting surface.

When there are cutting chips or coolant, install a cover, or remove all contaminants with air blow.
4. Exceeding allowable offset leads to damage on internal parts. It is recommended to install a guide pin.
5. When pressing up to the connection limit, the force should be higher than the reaction force and lower than 4.0kN.
6. For mounting and removing the coupler, use the mounting jig (ZZJ0030) or equivalent.

Locating + Clamp
Locating
Hand • Clamp
Support
Valve • Coupler
Electric Drive • Conveyor
Cautions • Others

Air Safety Valve
BWS
Air Sequence Valve
BWD

Auto Coupler
JVA/JVB0100
JVA/JVB0201
JVA/JVB0301
JVC/JVD
JVE/JVF
JNA/JNB
JNC/JND
JLP/JLS
JTA/JTB

Leakless Coupler
JWC/JWD

Rotary Joint
JR

Auto Coupler

Model JVC/JVD

Oil / Positive air pressure /
Negative air pressure / Coolant
(Operating Pressure Range: lower than 7MPa)



100% Stainless Steel

Feature

It is suitable for connecting and disconnecting fluid circuits when changing fixture pallets and tombstones.

This auto coupler can be easily used with a pallet clamp (SWT/WVS/VS/WVG).

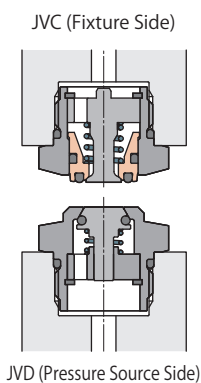
No reaction force is generated during pallet setting when using with a pallet clamp (SWT/WVS/VS).

※ No copper (Cu) or zinc (Zn) based materials are used.

Stainless steel and aluminum materials may contain copper (Cu) and zinc (Zn) as additive elements.

Action Description

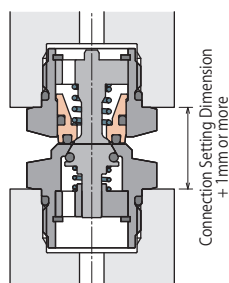
Disconnected State



Disconnected State (During Pallet Setting)

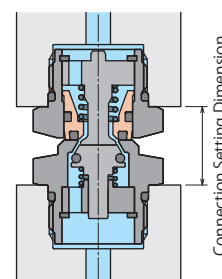
① Using without a Pallet Clamp (SWT/WVS/VS)

The reaction force is not generated at the distance of 1mm or further than the connection setting dimension.



Connected State

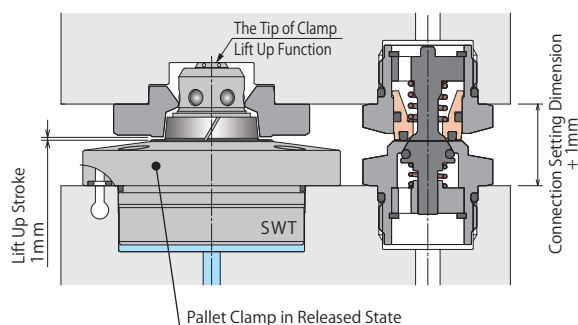
The reaction force is generated by the built-in spring and the supply pressure. (SWT/WVS/VS/WVG in clamped condition.)



② Using with a Pallet Clamp (SWT/WVS/VS)

The auto coupler is connected by the lift-up stroke (1mm) of the pallet clamp.

The reaction force is not generated when the pallet clamp is released (when setting a pallet) because the auto coupler is not connected. (When the pallet clamp is locked, the auto coupler is also connected and the reaction force is generated.)



Model No. Indication

JV D 020 1 - H - SB10 - CR

1 2 3 4 5

1 Style

- C** : O-ring side of Connection Surface (Fixture Side)
D : Metal Side of Connection Surface (Pressure Source Side)

2 Design No.

- 1** : Revision Number

3 Material

- H** : Stainless Steel, Fluor Rubber

5 Grease

- Blank** : NBU8EP made by NOK KLUEBER (Standard)
CR : AFF made by THK (For clean environment)
FD : NH1 64-422 made by NOK KLUEBER
 (For food machinery)

4 Applicable Pallet Clamp Model

Blank : **1** C selected

SB02 : SWTB020 / VSB020

SB06 : SWTB030 / VSB060
 WVGB040※/WVGB060※

SB10 : SWTB050 / VSB100
 WVGB100※

SJ01 : SWTJ010

SJ02 : SWTJ020 / VSJ020

SJ06 : SWTJ030 / VSJ060
 WVGB040※/WVGB060※

SJ10 : SWTJ050 / VSJ100

GB10 : WVGB100※

※ In case of WVGB, model of JVD differs depending on installation method. Refer to WVGB catalog for detail.

※ Please contact us when using with Hydraulic Double Action Pallet Clamp (model VT).

1 D selected
 (When not using with a pallet clamp, please select a model no. from the Dimension List on the next page.)

Locating
+
Clamp

Locating

Hand • Clamp

Support

Valve • Coupler

Electric Drive •
Conveyor

Cautions • Others

Air Safety Valve

BWS

Air
Sequence Valve

BWD

Auto Coupler

JVA/JVB0100

JVA/JVB0201

JVA/JVB0301

JVC/JVD

JVE/JVF

JNA/JNB

JNC/JND

JLP/JLS

JTA/JTB

Leakless Coupler

JWC/JWD

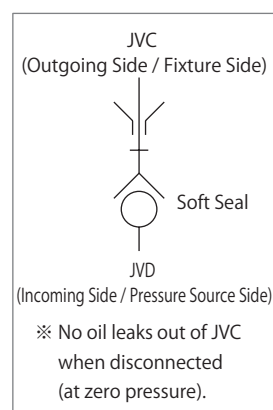
Rotary Joint

JR

Specifications

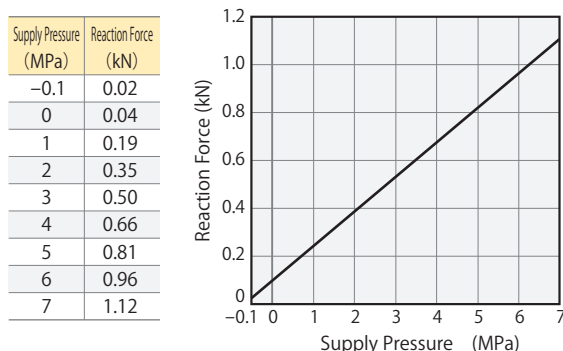
Model No.	Fixture Side		JVC0201-H-□							
	Pressure	Source Side	JVD0201 -H-SJ01-□	JVD0201 -H-SB02-□	JVD0201 -H-SJ02-□	JVD0201 -H-SB06-□	JVD0201 -H-SJ06-□	JVD0201 -H-SB10-□	JVD0201 -H-SJ10-□	JVD0201 -H-GB10-□
Max. Operating Pressure		MPa	7.0							
Withstanding Pressure		MPa	10.5							
Min. Passage Area		mm ²	12.6							
Offset Distance (Tolerance)		mm	±0.5							
Angular Deviation (Tolerance)		DEG.	0.3							
Operating Temperature		℃	0 ~ 120							
Usable Fluid			General Hydraulic Fluid Equivalent to ISO VS 32, Positive air pressure,Negative air pressure,Coolant							
Reaction Force kN	Op. Pressure	at 7 MPa	1.12							
		at 1 MPa	0.19							
		at P MPa	0.154 × P + 0.04							
Weight g		JVC	34							
		JVD	45	32	46	36	49	41	51	53
Applicable Clamp Model		SWT	SWT0010	SWT0020		SWT0030		SWT0050		-
		WVS	-	WVS0040		WVS0060		WVS0100		-
		VS	-	VS0020/VS0040		VS0060		VS0100		-
		WVG	-			WVG0040/WVG0060		WVG0100	-	WVG0100
Applicable Block Model for SWT/WVS/VS/WVG		SWT	SWTJ010	SWTB020	SWTJ020	SWTB030	SWTJ030	SWTB050	SWTJ050	-
		WVS/VS	-	VS020	VSJ020	VS060	VSJ060	VS0100	VSJ100	-
		WVG	-			WVGB040/WVGB060		WVGB100	-	WVGB100

Circuit Symbol



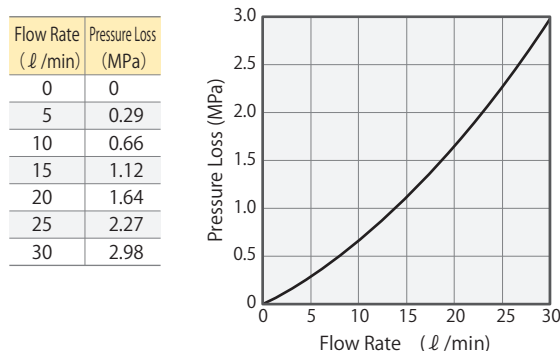
Supply Pressure—Reaction Force Graph

The graph shows the reaction force when supplying pressure after the connection of JVC/JVD is completed.

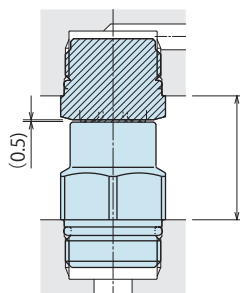
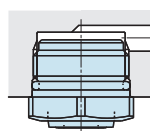
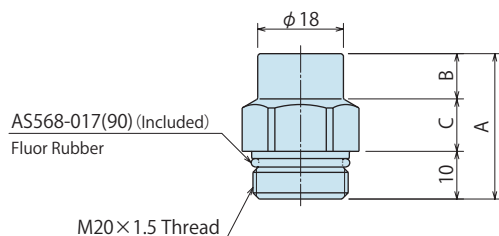
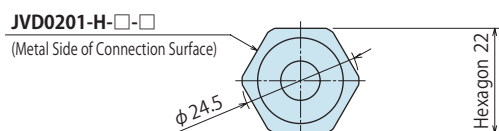
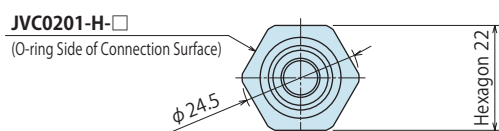
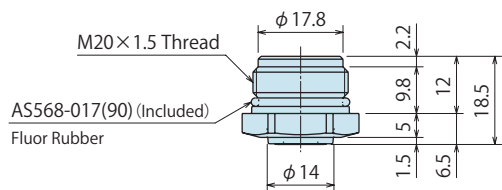


Flow Rate—Pressure Loss Characteristic Graph

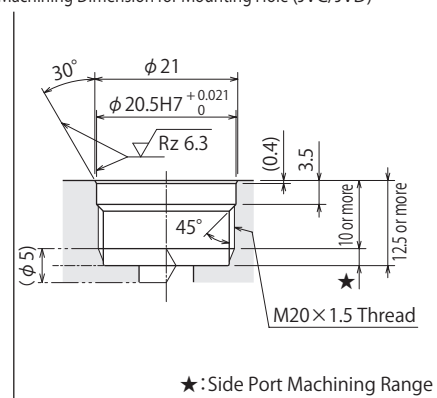
The fluid used on this data is general hydraulic oil equivalent to ISO-VG-32 (30 ~ 40°C).



External Dimensions (JVC/JVD)



Machining Dimension for Mounting Hole (JVC/JVD)



Model No.	Thread Size	Tightening Torque (N·m)
JVC0201-H-□	M20×1.5	25
JVD0201-H-□-□	M20×1.5	25

Connection Setting Dimension D±0.05
(When a pallet clamp is locked) ※1
(Limit Dimension for Single Unit Connection E)

The Connected Condition Dimension when Used in Combination with SWT/WVS/VS/WVG

Dimension List

(mm)

Model No.	JVC0201-H-□							
Fixture Side								
Model No.	JVD0201	JVD0201	JVD0201	JVD0201	JVD0201	JVD0201	JVD0201	JVD0201
Pressure Source Side	H-SJ01-□	H-SB02-□	H-SJ02-□	H-SB06-□	H-SJ06-□	H-SB10-□	H-SJ10-□	H-GB10-□
A	21.5	16	24.5	17.5	28	20	30.5	32.5
B	1	1	3.5	1	7	1	9.5	11.5
C	10.5	5	11	6.5	11	9	11	11
D	17	11.5	20	13	23.5	15.5	26	28
E	16.5	11	19.5	12.5	23	15	25.5	27.5

The Connected Condition Dimension when Using with SWT/WVS/VS

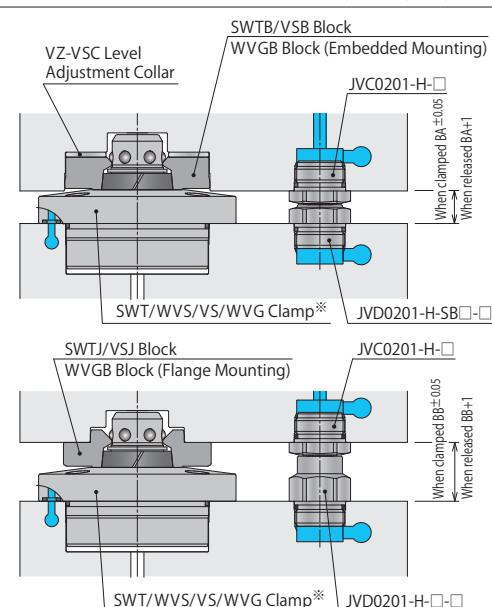
(mm)

Clamp Model No.	SWT0010	SWT0020	SWT0030	SWT0050
	-	WVS0040	WVS0060	WVS0100
	-	VS0020/VS0040	VS0060	VS0100
When using SWTB / VSB Block	BA	-	11.5	13
When using SWTJ / VSJ Block	BB	17	20	23.5

The Connected Condition Dimension when Using with WVG

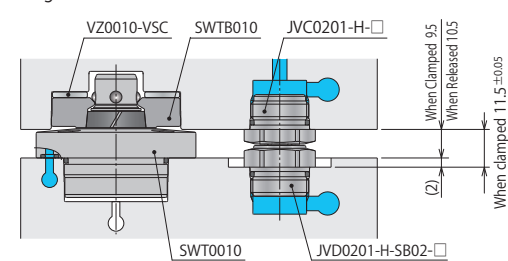
(mm)

Clamp Model No.	WVG0040	WVG0100
	WVG0060	
WVGB Embedded Mounting	BA	13
WVGB Flange Mounting	BB	23.5



※ This drawing shows when using SWT.

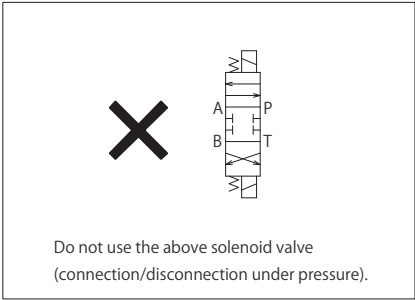
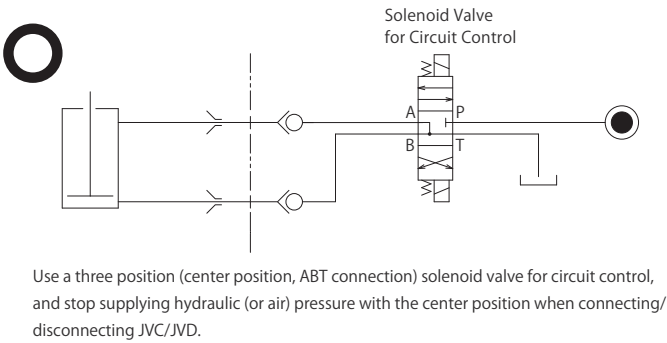
Reference Connection Drawing when Using SWT010
Spot facing shown in the below drawing is required only when using JVC/JVD with the combination of SWT0010 and SWT010.



● Cautions (JVC/JVD)

1. Do not connect or disconnect the auto coupler under pressure. (Refer to the following Circuit Reference.)
 2. Release the air from the circuit before use (when using hydraulic oil).
 3. Do not connect the coupler when contaminants are adhered on each connecting surface.
When there are cutting chips or coolant, install a cover, or remove all contaminants with air blow.
 4. If load is applied to the actuator on the fixture side while disconnected, it will be pressurized and fluid may leak from the coupler end.
 5. Exceeding allowable offset leads to damage on internal parts. (It is recommended to install a guide pin when not using SWT/WVS/VS/WVG.)
 6. It is recommended to use SWT/WVS/VS series as the location/pallet clamp to ensure stabilized setting due to the 1mm lift-up stroke.
When using JVC/JVD with pallet clamps other than the applicable models, the connection dimensions※ 1 of JVC/JVD should be $D \pm 0.05$.
 7. The connection dimensions BA and BB are different when using the level adjustment collar (VZ-VS1).
The connection dimensions※ 1 of JVC/JVD should be $D \pm 0.05$.
 8. When pressing up to the connection limit, the force should be higher than the reaction force and lower than 4.0kN.
- ※ 1. The connection setting dimension $D \pm 0.05$ indicates the tolerance when using JVC/JVD with SWT/WVS/VS and reducing the reaction force of the auto coupler to zero during pallet setting (when releasing SWT/WVS/VS).
For any other conditions, the connection setting dimation should be $D \begin{smallmatrix} 0 \\ -0.4 \end{smallmatrix}$.

● Circuit Reference



Locating + Clamp
Locating
Hand • Clamp
Support
Valve • Coupler
Electric Drive • Conveyor
Cautions • Others

Air Safety Valve
BWS
Air Sequence Valve
BWD

Auto Coupler
JVA/JVB0100
JVA/JVB0201
JVA/JVB0301
JVC/JVD
JVE/JVF
JNA/JNB
JNC/JND
JLP/JLS
JTA/JTB

Leakless Coupler
JWC/JWD

Rotary Joint
JR

Auto Coupler

Model JVE/JVF

Positive air pressure/
Negative air pressure/Coolant
(Operating Pressure Range: lower than 1MPa)



100% Stainless Steel

Feature

It is suitable for connecting and disconnecting fluid circuits when changing fixture pallets and tombstones.

This auto coupler can be easily used with a pallet clamp (SWT/WVS/VS/WVG).

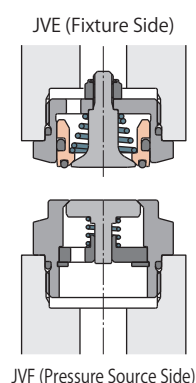
No reaction force is generated during pallet setting when using with a pallet clamp (SWT/WVS/VS).

※ No copper (Cu) or zinc (Zn) based materials are used.

Stainless steel and aluminum materials may contain copper (Cu) and zinc (Zn) as additive elements.

Action Description

Disconnected State

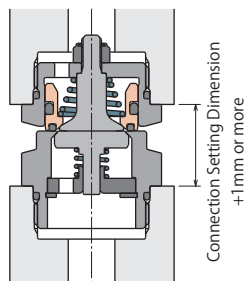


JVF (Pressure Source Side)

Disconnected State (During Pallet Setting)

① Using without a Location Clamp/Pallet Clamp (SWT/WVS/VS)

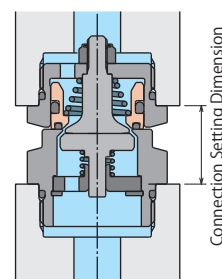
The reaction force is not generated at the distance of 1 mm or further than the connection setting dimensions.



Connection Setting Dimension
+1mm or more

Connected State

The reaction force is generated by the built-in spring and the supply pressure. (SWT/WVS/VS/WVG in clamped condition.)



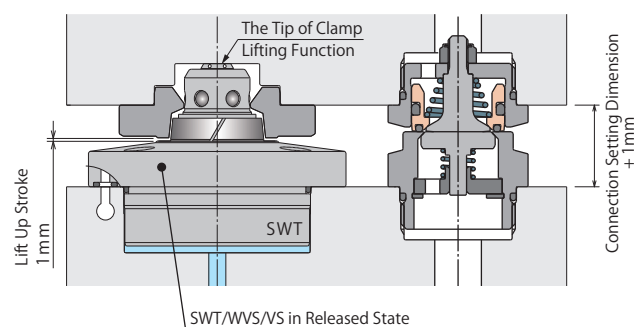
Connection Setting Dimension

② Using with a Location Clamp/Pallet Clamp (SWT/WVS/VS)

The auto coupler is connected by the lift-up stroke (1 mm) of SWT/WVS/VS.

The reaction force is not generated when SWT/WVS/VS is released (when setting a pallet) because the auto coupler is not connected. (When SWT/WVS/VS is locked, the auto coupler is also connected and the reaction force is generated.)

※WVG does not have a lifting function.



Model No. Indication

JV F 030 1 - H - SB10 - CR

1 2 3 4 5

1 Style

E : O-ring side of Connection Surface (Fixture Side)
F : Metal Side of Connection Surface (Pressure Source Side)

2 Design No.

1 : Revision Number

3 Material

H : Stainless Steel, Fluor Rubber

5 Grease

Blank : NBU8EP made by NOK KLUEBER (Standard)
CR : AFF made by THK (For clean environment)
FD : NH1 64-422 made by NOK KLUEBER
 (For food machinery)

4 Model of Block for Location / Pallet Clamp

Blank : **1**E selected
SB02 : SWTB020 / VSB020
SB06 : SWTB030 / VSB060
 WVGB040*/WVGB060*
SB10 : SWTB050 / VSB100
 WVGB100*
SJ01 : SWTJ010
SJ02 : SWTJ020 / VSJ020
SJ06 : SWTJ030 / VSJ06
 WVGB040*/WVGB060*
SJ10 : SWTJ050 / VSJ100
GB10 : WVGB100*

※ In case of WVGB, model of JVF differs depending on installation method. Refer to WVG catalog for detail.
 ※ Please contact us when using with Hydraulic Double Action Pallet Clamp (model VT).

1 F selected

(When not using with location/pallet clamp, please select model from connection setting dimension.)

Locating
+
Clamp

Locating

Hand • Clamp

Support

Valve • Coupler

Electric Drive •
Conveyor

Cautions • Others

Air Safety Valve

BWS

Air Sequence Valve

BWD

Auto Coupler

JVA/JVB0100

JVA/JVB0201

JVA/JVB0301

JVC/JVD

JVE/JVF

JNA/JNB

JNC/JND

JLP/JLS

JTA/JTB

Leakless Coupler

JWC/JWD

Rotary Joint

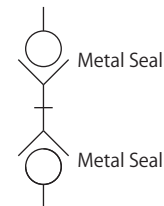
JR

Specifications

Model No.	Fixture Side		JVE0301-H-□							
	Pressure Source Side		JVF0301 -H-SJ01-□	JVF0301 -H-SB02-□	JVF0301 -H-SJ02-□	JVF0301 -H-SB06-□	JVF0301 -H-SJ06-□	JVF0301 -H-SB10-□	JVF0301 -H-SJ10-□	JVF0301 -H-GB10-□
Max. Operating Pressure	MPa	1.0								
Withstanding Pressure	MPa	1.5								
Min. Passage Area	mm ²	29.0								
Offset Distance (Tolerance)	mm	±0.5								
Angular Deviation (Tolerance)	DEG.	0.3								
Operating Temperature	℃	0 ~ 120								
Usable Fluid		Coolant, Positive air pressure, Negative air pressure								
Reaction Force kN	Operating Pressure	at 1.0 MPa	0.44							
		at 0.4 MPa	0.21							
		at P MPa	0.380 × P + 0.06							
Weight g	JVE	61								
	JVF	81	57	81	62	85	71	89	92	
Applicable Clamp Model	SWT	SWT0010	SWT0020		SWT0030		SWT0050		—	
	WVS	—	WVS0040		WVS0060		WVS0100		—	
	VS	—	VS0020/VS0040		VS0060		VS0100		—	
	WVG	—			WVG0040/WVG0060		WVG0100	—	WVG0100	
Block Model for SWT/WVS/VS/WVG	Block for SWT	SWTJ010	SWTB020	SWTJ020	SWTB030	SWTJ030	SWTB050	SWTJ050	—	
	Block for WVS/VS	—	VSB020	VSJ020	VSB060	VSJ060	VSB100	VSJ100	—	
	Block for WVG	—			WVGB040/WVGB060		WVGB100	—	WVGB100	

Circuit Symbol

JVE (Outgoing Side / Fixture Side)



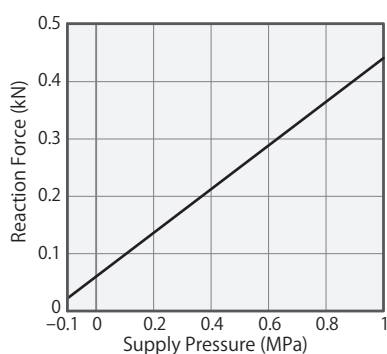
JVF (Incoming Side / Pressure Source Side)

※ No oil leaks out of JVE when disconnected (at zero pressure).

Supply Pressure—Reaction Force Graph

The graph shows the reaction force when supplying pressure after the connection of JVE/JVF is completed.

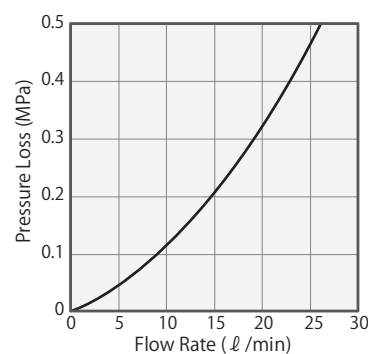
Supply Pressure (MPa)	Reaction Force (kN)
-0.1	0.02
0	0.06
0.1	0.10
0.2	0.14
0.3	0.17
0.4	0.21
0.5	0.25
0.6	0.29
0.7	0.33
0.8	0.36
0.9	0.40
1.0	0.44



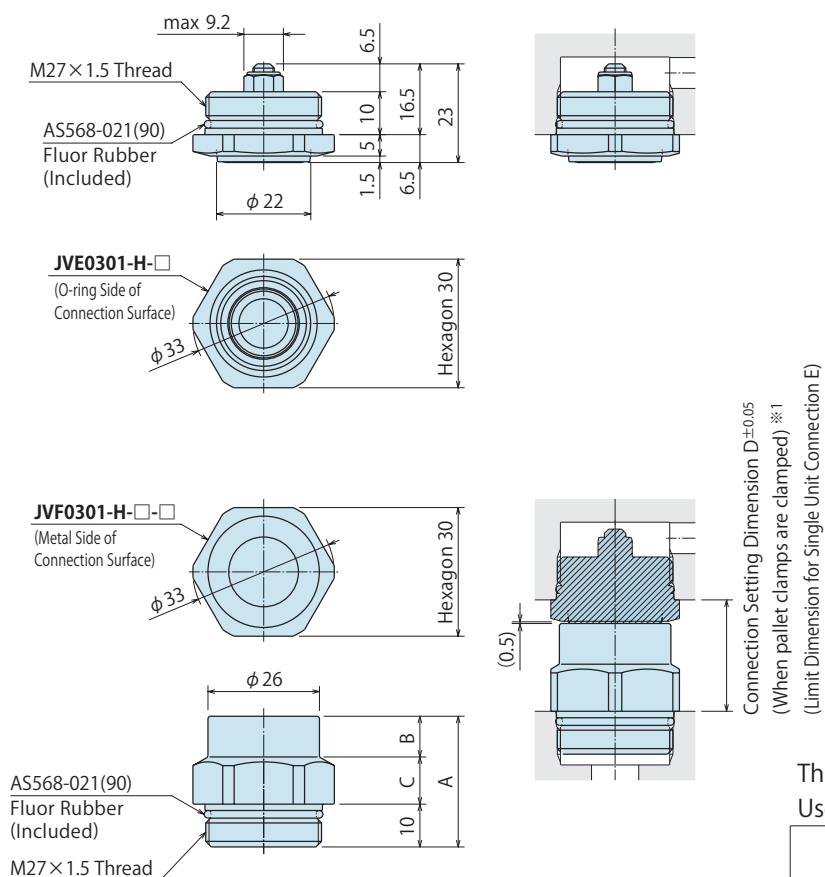
Flow Rate—Pressure Loss Characteristic Graph

The fluid used on this data is water.

Flow Rate (ℓ/min)	Pressure Loss (MPa)
0	0
5	0.05
10	0.12
15	0.21
20	0.33
25	0.48



External Dimensions (JVE/JVF)



Dimension List

(mm)

Model No. Fixture Side	JVE0301-H-□							
Model No. Pressure Source Side	JVF0301 H-SJ01-□	JVF0301 H-SB02-□	JVF0301 H-SJ02-□	JVF0301 H-SB06-□	JVF0301 H-SJ06-□	JVF0301 H-SB10-□	JVF0301 H-SJ10-□	JVF0301 H-GB10-□
A	21.5	16	24.5	17.5	28	20	30.5	32.5
B	1	1	3.5	1	7	1	9.5	11.5
C	10.5	5	11	6.5	11	9	11	11
D	17	11.5	20	13	23.5	15.5	26	28
E	16.5	11	19.5	12.5	23	15	25.5	27.5

The Connected Condition Dimension when Using with SWT/WVS/VS

(mm)

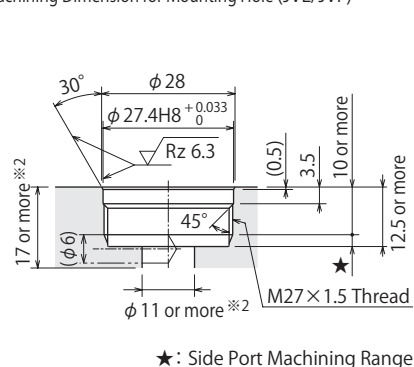
Clamp Model No.	SWT0010	SWT0020 WVS0040 VS0020/VS0040	SWT0030 WVS0060 VS0060	SWT0050 WVS0100 VS0100
When using SWT / VSB Block	BA	-	11.5	13
When using SWT / VSJ Block	BB	17	20	26

The Connected Condition Dimension when Using with WVG

(mm)

Clamp Model No.	WVG0040 WVG0060	WVG0100
WVGB Embedded Mounting BA	13	15.5
WVGB Flange Mounting BB	23.5	28

Machining Dimension for Mounting Hole (JVE/JVF)

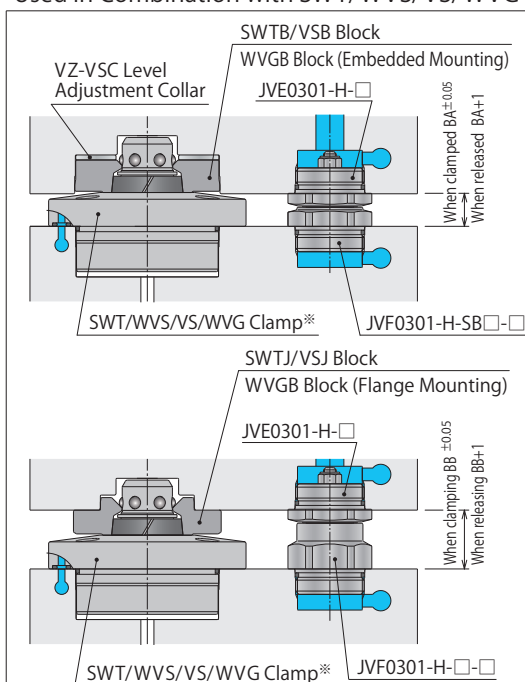


★: Side Port Machining Range

※2. This dimension is only for JVE side

Model No.	Thread Size	Tightening Torque (N·m)
JVE0301-H-□	M27×1.5	40
JVF0301-H-□-□		

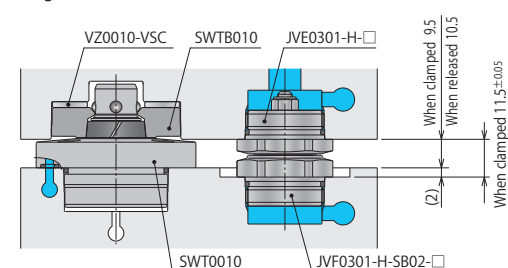
The Connected Condition Dimension when Used in Combination with SWT/WVS/VS/WVG



※ This drawing shows when using SWT.

Reference Connection Drawing when Using SWT0010

Spot facing shown in the below drawing is required only when using JVE/JVF with the combination of SWT0010 and SWT0010.



Cautions (JVE/JVF)

- Make sure to supply fluid after connection is completed.
- Since each check valve is a metal seal, there will be slight fluid leaks if pressurized while disconnected.
- Do not connect the coupler when each connecting surface is contaminated.

When there are cutting chips or coolant, install a cover, or remove all contaminants with air blow.
- Exceeding allowable offset leads to damage on internal parts. (It is recommended to install a guide pin when not using SWT/WVS/VS/WVG.)
- It is recommended to use SWT/WVS/VS series as the location/pallet clamp to ensure stabilized setting due to the 1mm lift-up stroke.

When using JVE/JVF with pallet clamps other than the applicable models, the connection dimensions※ 1 of JVE/JVF should be $D\pm0.05$.
- The connection dimensions BA and BB are different when using the level adjustment spacer (VZ-VS1).

The connection dimensions※ 1 of JVE/JVF should be $D\pm0.05$.
- When pressing up to the connection limit, the force should be higher than the reaction force and lower than 4.0kN.

※ 1. The connection setting dimension $D\pm0.05$ indicates the tolerance when using JVE/JVF with SWT/WVS/VS and reducing the reaction force of the auto coupler to zero during pallet setting (when releasing SWT/WVS/VS).

For any other conditions, the connection setting dimention should be $D_{-0.4}^0$.

Locating + Clamp
Locating
Hand • Clamp
Support
Valve • Coupler
Electric Drive • Conveyor
Cautions • Others

Air Safety Valve
BWS
Air Sequence Valve
BWD

Auto Coupler
JVA/JVB0100
JVA/JVB0201
JVA/JVB0301
JVC/JVD
JVE/JVF
JNA/JNB
JNC/JND
JLP/JLS
JTA/JTB

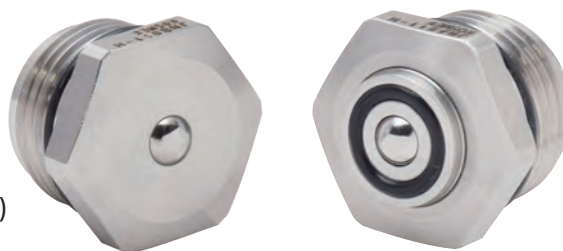
Leakless Coupler
JWC/JWD

Rotary Joint
JR

Auto Coupler

Model JNA/JNB

Positive/Negative air pressure
(Operating Pressure Range: lower than 1MPa)



Feature

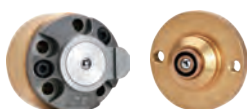
Designed to prevent coolant and cutting chips from entering into the check valve when disconnected.
Compact Manifold Option and BGC/BGD Combination Option are available.



Manifold Option

Manifold Option is **100% Stainless Steel**.

※ No copper (Cu) or zinc (Zn) based materials are used.
Stainless steel and aluminum materials may contain copper (Cu) and zinc (Zn) as additive elements.

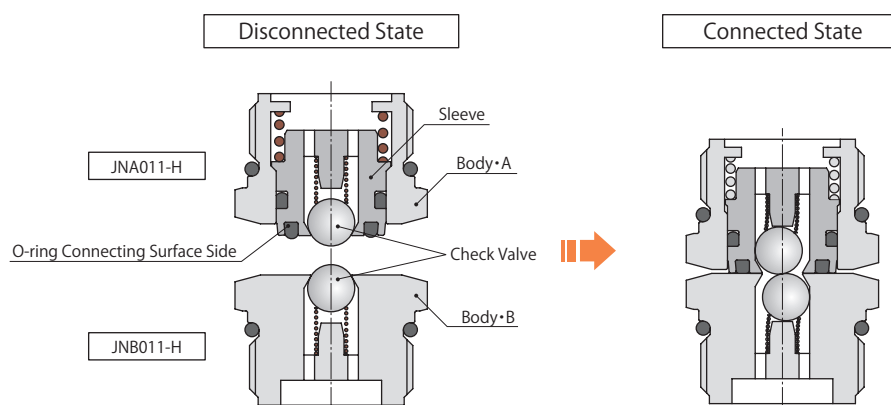


BGC/BGD Combination Option

BGC/BGD combination Option is not 100% Stainless Steel.

※ Refer to P.851~P.852 for BGC/BGD Combination Option.

Action Description (Manifold Option)



- ① When JNA closely contacts with JNB, the check valves press each other to open the valve.
- ② At this time, the O-ring on the end surface of the sleeve prevents air from leaking to the outside.

Model No. Indication (Manifold Option)

JN B 01 1 - H - CR

1 2 3 4

1 Style

- A** : O-ring side of Connection Surface (Fixture Side)
B : Metal Side of Connection Surface (Pressure Source Side)

2 Design No.

- 1** : Revision Number

3 Material

- H** : Stainless Steel, Fluor Rubber

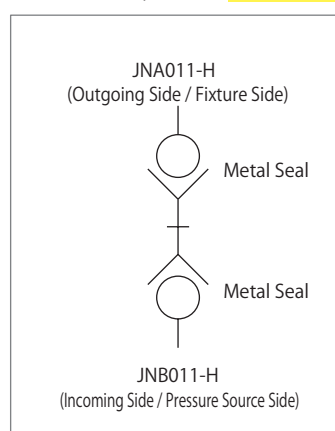
4 Grease

- Blank** : NBU8EP made by NOK KLUEBER (Standard)
CR : AFF made by THK (For clean environment)
FD : NH1 64-422 made by NOK KLUEBER
 (For food machinery)

Specifications

Model No.	Fixture Side	JNA011-H-□
	Pressure Source Side	JNB011-H-□
Max. Operating Pressure	MPa	1.0
Withstanding Pressure	MPa	1.5
Min. Passage Area	mm ²	8.8 (At eccentricity: 7.4)
Offset Distance (Tolerance)	mm	±1
Angular Deviation (Tolerance)	DEG.	0.3
Operating Temperature	°C	0 ~ 120
Usable Fluid		Positive / Negative air pressure
Reaction Force kN	Op. Pressure at 0.5 MPa	0.12
	at 0.2 MPa	0.07
	at P MPa	$0.154 \times P + 0.04$
Weight g	JNA011-H	35
	JNB011-H	40

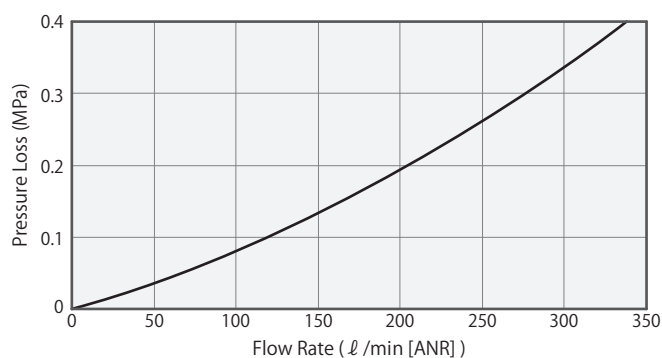
Circuit Symbol (Manifold Option)



Flow Rate—Pressure Loss Characteristic Graph

The fluid used on this data is air (temperature is 25°C) with min. passage area 8.8mm².

Flow Rate (ℓ/min [ANR])	Pressure Loss (MPa)
0	0
85	0.05
125	0.10
165	0.15
200	0.20
235	0.25
270	0.30
305	0.35
345	0.40

Locating
+
Clamp

Locating

Hand • Clamp

Support

Valve • Coupler

Electric Drive •
Conveyor

Cautions • Others

Air Safety Valve

BWS

Air
Sequence Valve

BWD

Auto Coupler

JVA/JVB0100

JVA/JVB0201

JVA/JVB0301

JVC/JVD

JVE/JVF

JNA/JNB

JNC/JND

JLP/JLS

JTA/JTB

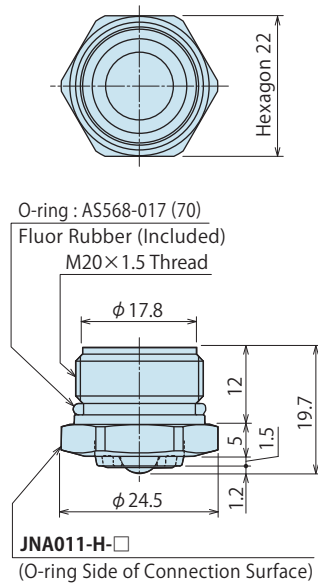
Leakless Coupler

JWC/JWD

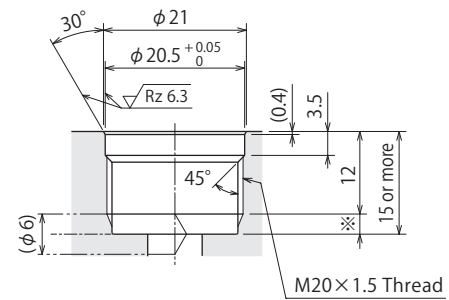
Rotary Joint

JR

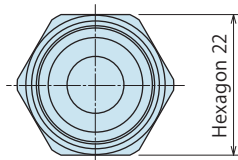
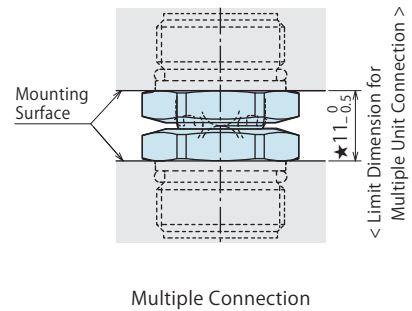
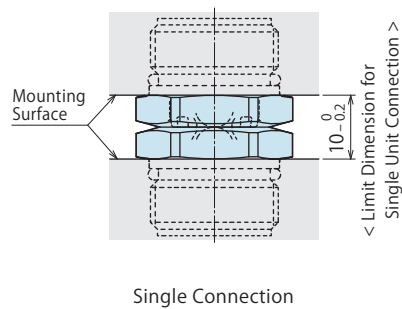
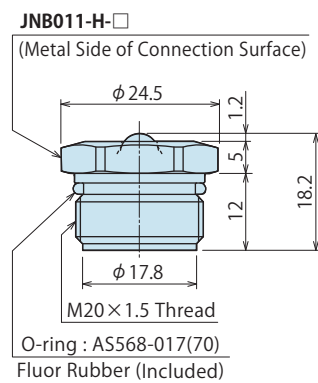
External Dimensions (Manifold Option JNA011-H-□/JNB011-H-□)



Machining Dimension for Mounting Hole (JNA011-H-□/JNB011-H-□)



Model No.	Thread Size	Tightening Torque (N·m)
JNA011-H-□ JNB011-H-□	M20×1.5	25



Cautions (Manifold Option JNA011-H-□/JNB011-H-□)

1. Since each check valve is a metal seal, there will be slight fluid leaks if pressurized while disconnected.
2. When pressurizing the one side at disconnected state and connecting the couplers, the air comes out from the time the pressurized side check valve is open until the o-ring of the connecting surface is sealed.
3. Do not connect the coupler when each connecting surface is contaminated.
4. When there are cutting chips or coolant, install a cover, or remove all contaminants with air blow.
5. When using connection limit stopper(s) or multiple couplers, follow the connection setting dimension (★) in the drawing.
6. When pressing up to the connection limit, the force should be higher than the reaction force and lower than 1.0kN.

Locating
+
Clamp

Locating

Hand • Clamp

Support

Valve • Coupler

Electric Drive •
Conveyor

Cautions • Others

Air Safety Valve

BWS

Air
Sequence Valve

BWD

Auto Coupler

JVA/JVB0100

JVA/JVB0201

JVA/JVB0301

JVC/JVD

JVE/JVF

JNA/JNB

JNC/JND

JLP/JLS

JTA/JTB

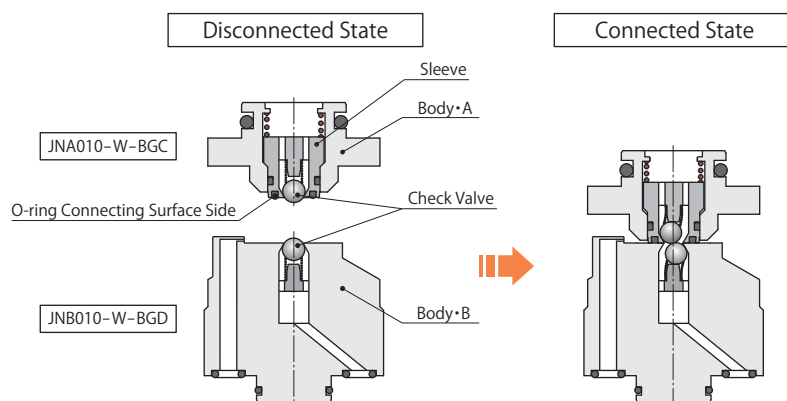
Leakless Coupler

JWC/JWD

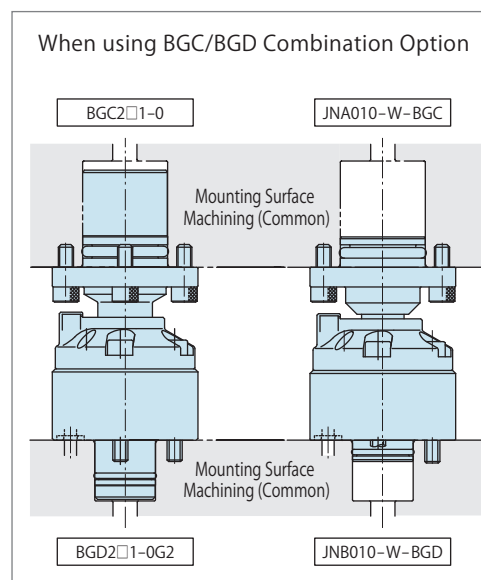
Rotary Joint

JR

External Dimensions (BGC/BGD Combination Option)



- When JNA closely contacts with JNB, the check valves press each other to open the valve.
- At this time, the O-ring on the end surface of the sleeve prevents air from leaking to the outside.



Model No. Indication (BGC/BGD Combination Option)

JN B 01 0 - W - BGD

1 2 3 4

1 Style

- A** : O-ring side of Connection Surface (Fixture Side)
B : Metal Side of Connection Surface (Pressure Source Side)

3 Material

W : Stainless Steel, Brass, NBR

2 Design No.

0 : Revision Number

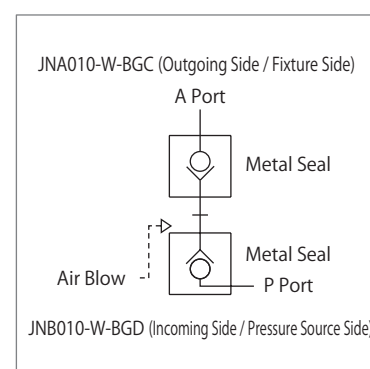
4 Combination Coupler Option

- BGC** : 1 When selecting A and using BGC together
BGD : 1 When selecting B and using BGD together

Specifications

Model No.	Fixture Side	JNA010-W-BGC
	Pressure Source Side	JNB010-W-BGD
Max. Operating Pressure	MPa	1.0
Withstanding Pressure	MPa	1.5
Min. Passage Area	mm ²	8.8 (At eccentricity: 7.4)
Offset Distance (Tolerance)	mm	±1
Angular Deviation (Tolerance)	DEG.	0.3
Operating Temperature	°C	0 ~ 70
Usable Fluid		Positive / Negative air pressure
Reaction Force	Op. Pressure	
	at 0.5 MPa	0.12
	at 0.2 MPa	0.07
	at P MPa	$0.154 \times P + 0.04$
Weight	JNA010-W-BGC	150
	JNB010-W-BGD	450

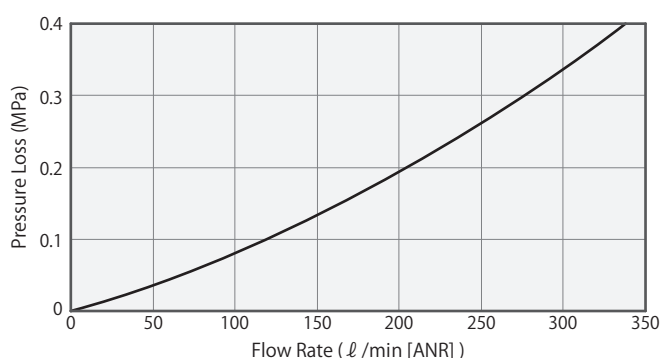
Circuit Symbol (BGC/BGD Combination Option)



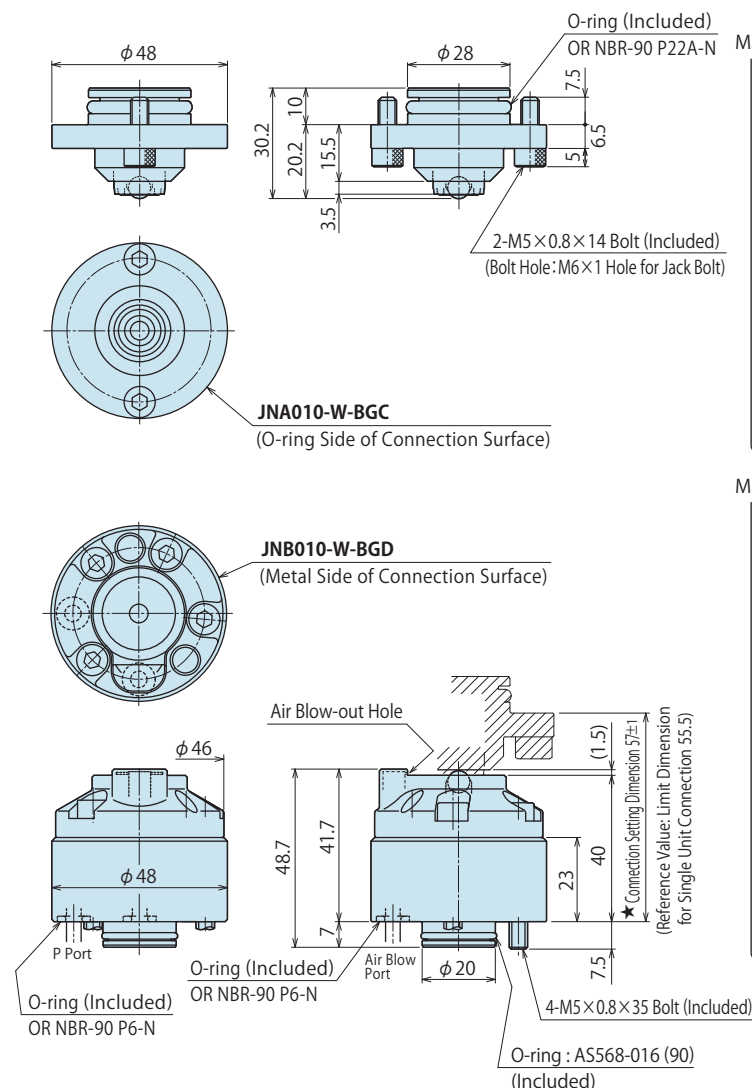
Flow Rate – Pressure Loss Characteristic Graph

The fluid used on this data is air (temperature is 25°C) with min. passage area 8.8mm².

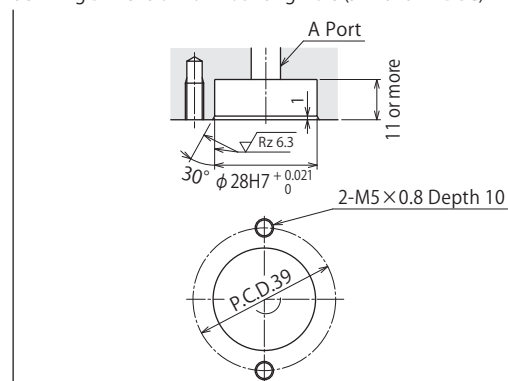
Flow Rate (ℓ/min [ANR])	Pressure Loss (MPa)
0	0
85	0.05
125	0.10
165	0.15
200	0.20
235	0.25
270	0.30
305	0.35
345	0.40



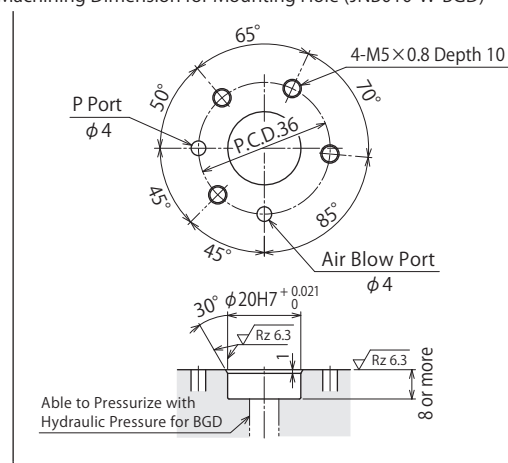
External Dimensions (BGC/BGD Combination Option) JNA010-W-BGC/JNB010-W-BGD



Machining Dimension for Mounting Hole (JNA010-W-BGC)



Machining Dimension for Mounting Hole (JNB010-W-BGD)



Model No.	Thread Size	Tightening Torque (N·m)
JNA010-W-BGC JNB010-W-BGD	M5×0.8	6.3

Locating
+ Clamp

Locating

Hand + Clamp

Support

Valve + Coupler

Electric Drive +
Conveyor

Cautions + Others

Air Safety Valve

BWS

Air
Sequence Valve

BWD

Auto Coupler

JVA/JVB0100

JVA/JVB0201

JVA/JVB0301

JVC/JVD

JVE/JVF

JNA/JNB

JNC/JND

JLP/JLS

JTA/JTB

Leakless Coupler

JWC/JWD

Rotary Joint

JR

Cautions (BGC/BGD Combination Option) JNA010-W-BGC/JNB010-W-BGD

1. Since each check valve is a metal seal, there will be slight fluid leaks if pressurized while disconnected.
2. When pressurizing the one side at disconnected state and connecting the couplers, the air comes out from the time the pressurized side check valve is open until the o-ring of the connecting surface is sealed.
3. When using connection limit stopper(s) or multiple couplers, follow the connection setting dimension (★) in the drawing.
4. When pressing up to the connection limit, the force should be higher than the reaction force and lower than 2.0kN.
5. Do not connect the coupler when each connecting surface is contaminated.

Auto Coupler

Model JNC/JND

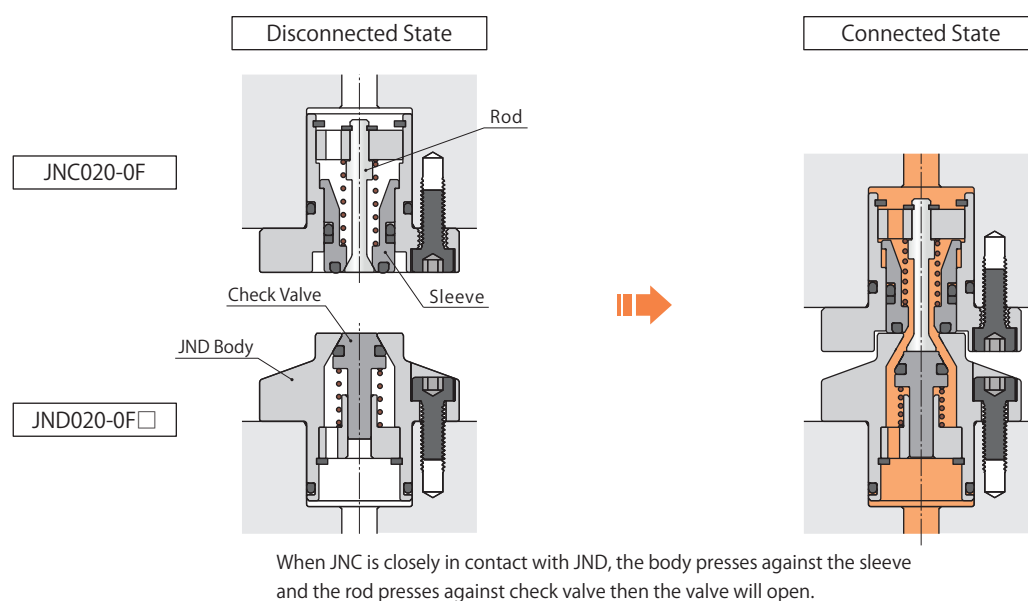
Oil / Positive air pressure
(Operating Pressure Range: lower than 25MPa)



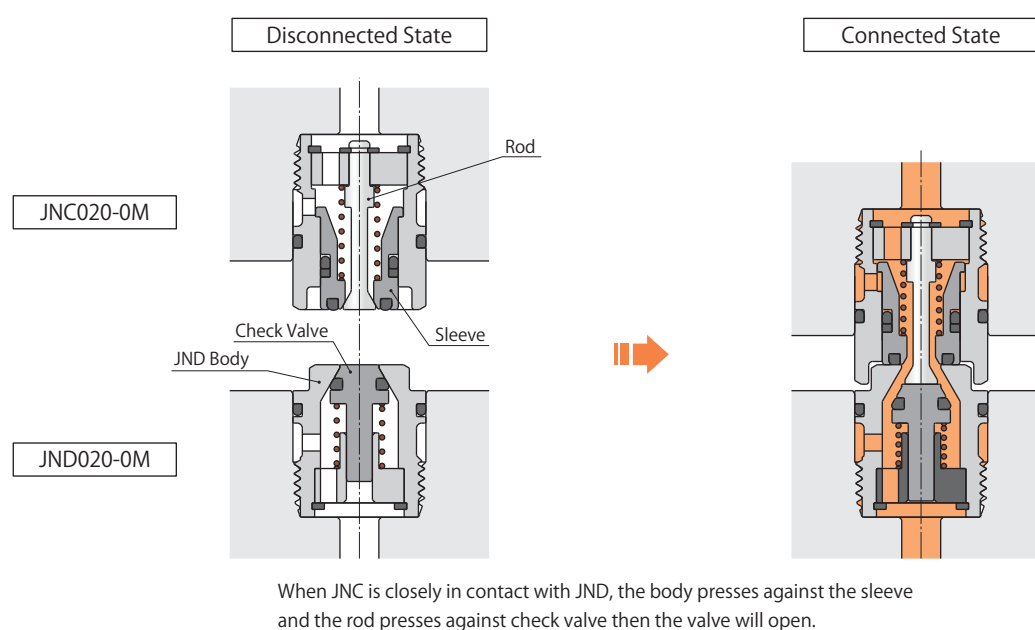
Feature

This auto coupler is suitable for connecting and disconnecting fluid circuits when changing fixture pallets and tombstones. Two options are available: Compact Manifold Option and Flange Option which can be easily used with the pallet clamp.

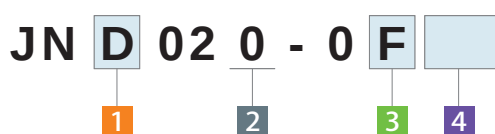
Action Description (Flange Option)



Action Description (Manifold Option)



Model No. Indication



1 Style

- C** : O-ring side of Connection Surface (Fixture Side)
D : Metal Side of Connection Surface (Pressure Source Side)

2 Design No.

- 0** : Revision Number

3 Mounting Method

- F** : Flange Option (Easy to use with pallet clamps)
M : Manifold Option

4 Spacer Thickness ※ Specify only when selecting JND Flange Option.

Blank : No Spacer (Standard)

05 : T = 0.5mm

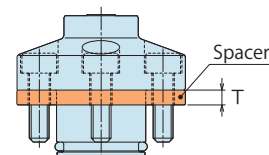
15 : T = 1.5mm

40 : T = 4.0mm

65 : T = 6.5mm

80 : T = 8.0mm

0D : Spacer Block (Refer to the external dimensions.)^{※1}



Notes :

※1. Refer to the external dimensions for 0D : Spacer Block.

1. Spacer thickness depends on the pallet clamps used with this coupler.

Locating
+
Clamp

Locating

Hand • Clamp

Support

Valve • Coupler

Electric Drive •
Conveyor

Cautions • Others

Air Safety Valve

BWS

Air
Sequence Valve

BWD

Auto Coupler

JVA/JVB0100

JVA/JVB0201

JVA/JVB0301

JVC/JVD

JVE/JVF

JNA/JNB

JNC/JND

JLP/JLS

JTA/JTB

Leakless Coupler

JWC/JWD

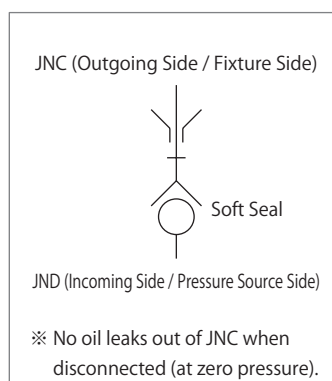
Rotary Joint

JR

Specifications

Model No.	Fixture Side	JNC020-0F	JNC020-0M
	Pressure Source Side	JND020-0F□	JND020-0M
Max. Operating Pressure	MPa	25.0	
Withstanding Pressure	MPa	37.5	
Min. Passage Area	mm ²	10.3	
Offset Distance (Tolerance)	mm	±0.5	±0.4
Angular Deviation (Tolerance)	DEG.	0.3	
Operating Temperature	°C	0 ~ 70	
Usable Fluid		General Hydraulic Oil Equivalent to ISO VS 32, Positive air pressure	
Reaction Force kN	Op. Pressure	at 25 MPa	2.86
		at 7 MPa	0.82
		at P MPa	$0.113 \times P + 0.03$
Weight g	JNC	0.07	0.05
	JND	Refer to External Dimensions	0.05

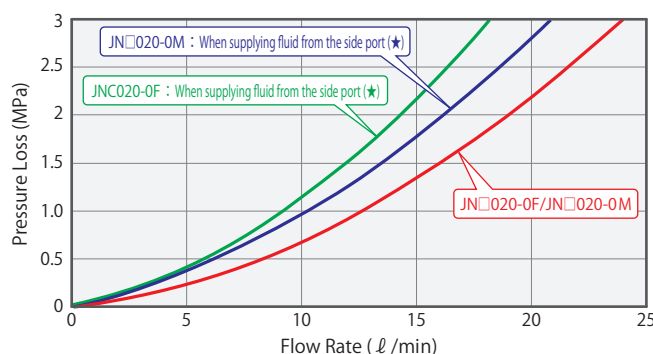
Circuit Symbol



Flow Rate—Pressure Loss Characteristic Graph

The fluid used on this data is general hydraulic oil equivalent to ISO-VG-32 (30 ~ 40°C).

Pressure Loss (MPa)	Flow Rate (ℓ / min)		
	JN□020-0F JN□020-0M	When supplying fluid from the side port (★). JN□020-0F JNC020-0M	JNC020-0M
0	0	0	0
0.5	8.5	5.6	6.5
1.0	12.6	9.2	10.2
1.5	15.8	12.0	13.5
2.0	19.2	14.3	16.0
2.5	21.5	16.5	18.5
3.0	24.0	18.2	21.0



Note : 1. Refer to the external dimensions for the side port position (★).

[illegible]

Technical drawing of a mechanical part with the following dimensions and tolerances:

- Top diameter: $\phi 18H7^{+0.018}_0$
- Top chamfer: 30°
- Surface texture: $Rz\ 6.3$
- Bottom hole diameter: $\phi 6 \sim 8$
- Bottom hole depth: 0.8
- Overall height: 12
- Overall length: 20.5 or more
- Fixture Side Port: Indicated by an arrow pointing to the top surface.

[illegible]

P.C.D.25

Technical drawing of a circular plate with four holes. The plate has a central hole and four outer holes. The outer holes are labeled "4-M4x0.7" and "Thread Depth G". The center hole is labeled "P.C.D.25".

Technical drawing of a circular plate with the following specifications:

- Plate Diameter: 100 mm
- Number of Holes: 4
- Hole Diameter: 25 mm (P.C.D.25)
- Hole Spacing: 50 mm (center-to-center)
- Thread: 4-M4x0.7
- Thread Depth: 10 mm

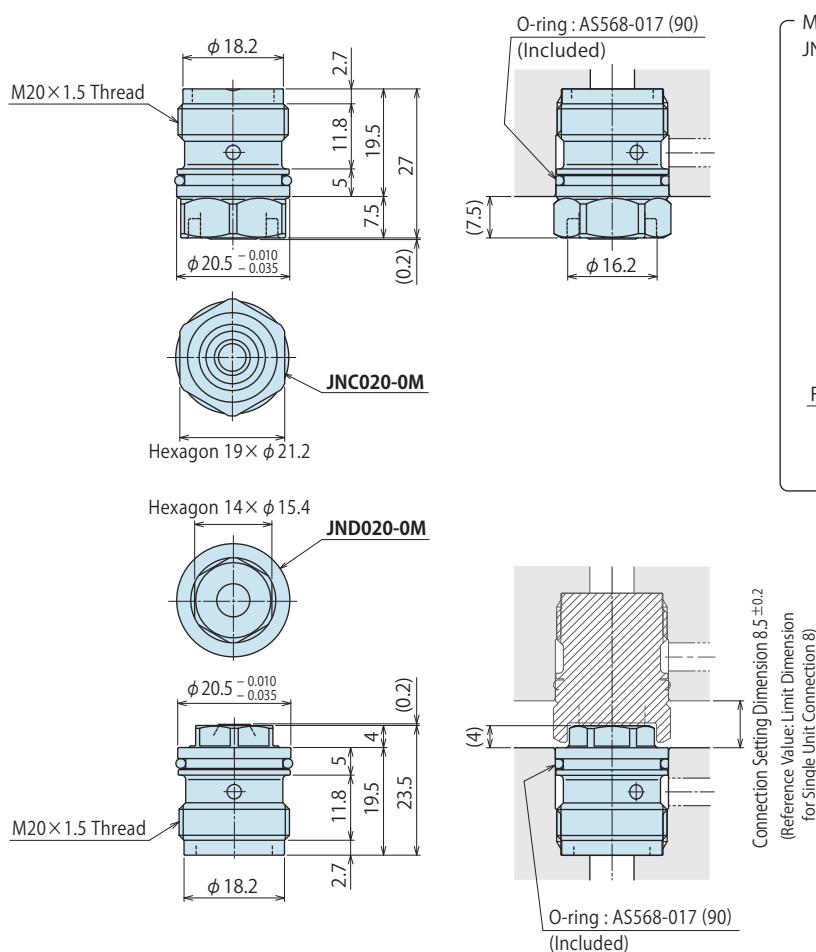
Technical drawing of a pressure source side port. The drawing shows a cylindrical component with a port on the pressure source side. Dimensions include a diameter of 34H8 with a tolerance of +0.039/0, a length of 6 with a tolerance of ±0.05, a surface finish of Rz 6.3, and a port diameter of 10 or less. A note indicates 'Port on Pressure Source Side'.

Model No.	Mounting Bolt Size	Tightening Torque (N·m)
JNC020-0F JND020-0F □	M4×0.7	3

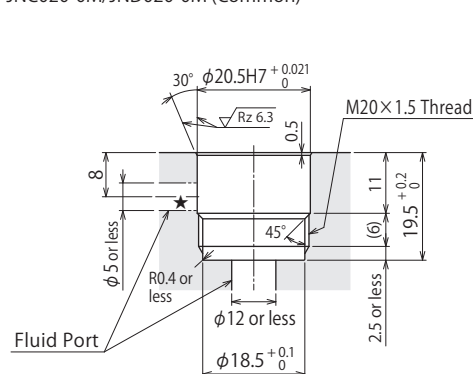
(mm)

JND Model		JND020 -0F	JND020 -0F05	JND020 -0F15	JND020 -0F40		JND020 -0F65	JND020 -0F80	JND020 -0F0D
Location Clamp	SWT	SWT0020		SWT0030		SWT0050		SWT0080	
Pallet Clamp	WVS	WVS0040		WVS0060		WVS0100		WVS0160	
Model	VS	VS0020/VS0040		VS0060		VS0100 –		VS0160	
Block Model	Block for SWT	SWTB020	SWTJ020	SWTB030	SWTJ030	SWTB050	SWTJ050	SWTB080	SWTJ080
	Block for WVS/VS	VSJB020	VSJ020	VSJB060	VSJ060	VSJB100	VSJ100	VSJB160	VSJ160
T		0 (No Spacer)	0.5	1.5	4		6.5	8	Refer to the Drawing Above
A		13.5	13	12	9.5		7	5.5	
B		6.5	6	7	6.5		6	8.5	
C		11.5	–	13	–	15.5	–	19.5	
D		19.5	20	21	23.5		26	27.5	
E		19	19.5	20.5	23		25.5	27	
F		10	10	12	14		16	20	
G		8	8	9	8		8	10	
H		14.5	14	13	10.5		8	6.5	
Weight ka		0.08	0.08	0.09	0.11		0.12	0.13	0.17

External Dimensions (JNC020-0M/JND020-0M)



Machining Dimension for Mounting Hole
JNC020-0M/JND020-0M (Common)



Model No.	Mounting Bolt Size	Tightening Torque (N·m)
JNC020-0M JND020-0M	M20 × 1.5	40

Locating
+
Clamp

Locating

Hand • Clamp

Support

Valve • Coupler

Electric Drive •
Conveyor

Cautions • Others

Air Safety Valve

BWS

Air
Sequence Valve

BWD

Auto Coupler

JVA/JVB0100

JVA/JVB0201

JVA/JVB0301

JVC/JVD

JVE/JVF

JNA/JNB

JNC/JND

JLP/JLS

JTA/JTB

Leakless Coupler

JWC/JWD

Rotary Joint

JR

Cautions (JNC/JND)

< General Cautions >

- Do not connect or disconnect the auto coupler under pressure (pressure remained state).
- Release the air from the circuit before use (when using hydraulic oil).
- Do not connect the coupler when each connecting surface is contaminated.
(When there are cutting chips or coolant, remove all contaminants with air blow.)
- When connected, maximum 0.03 kN of the spring force is applied to the coupler even if circuit pressure is zero.
- If load is applied to the actuator on the fixture side while disconnected, it will be pressurized and fluid may leak from the JNC end
(when using hydraulic oil).
- When pressing up to the connection limit, the pressing force should be higher than the reaction force and lower than 5.0kN for JN□020-0F,
and higher than the reaction force and lower than 4.0kN for JN□020-0M.
- When using the port with ★ mark, flow characteristics will be deteriorated. (Please refer to the [Flow Rate — Pressure Loss Characteristic Graph].)

<JNC020-0F/JND020-0F□: Cautions for Flange Option>

- Select the standard JNC020-0F/JND020-0F when not using with location clamps/pallet clamps (SWT/WVS/VS).
- When supplying hydraulic/air pressure in the connected condition, keep the location clamps/pallet clamps in the locked condition
(when using with SWT/WVS/VS).
- Contact us for the combination use of SWTB and SWTJ, VSB and VSJ.

<JNC020-0M/JND020-0M: Caution for Manifold Option>

- The area of hexagonal head for tightening is small because of the compact design. Make sure to securely apply a tool to the hexagonal head.

Auto Coupler

Model JLP/JLS

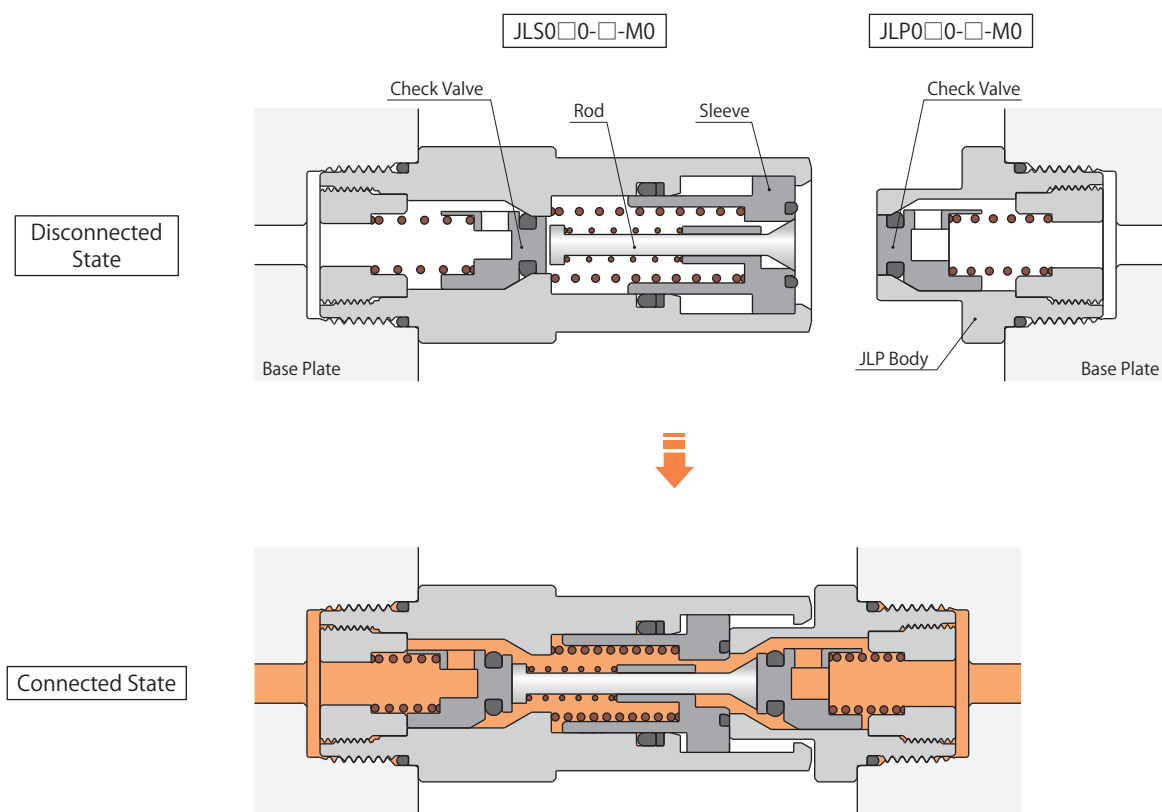
Oil/Positive air pressure/Coolant
(Operating Pressure Range :
lower than 3.5MPa/lower than 25MPa)



Feature

The auto coupler with the check valve is suitable for automation and used in hydraulic circuit, air circuit and for coolant.

Action Description



Model No. Indication

J L P 0 2 0 - W - M 0

1 2 3 4 5

1 Style

P : Plug Side
S : Socket Side

2 Body Size ^{※1}

2 : Min. Passage Area 29mm²
3 : Min. Passage Area 50mm²
4 : Min. Passage Area 102mm²

3 Design No.

0 : Revision Number

Notes :

※1. Please contact us when combining different body sizes.

However, it is recommended to use the same size couplers due to maintenance and management of spare items.

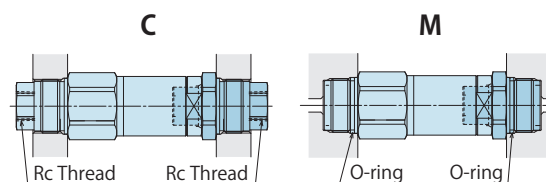
※2. The piping methods C and M can be combined for use.

4 Material

W : Stainless Steel, Brass, NBR (Rec. Fluid: Positive air pressure)
H : Stainless Steel, Brass, Fluor Rubber (Rec. Fluid: Coolant)
O : Steel, NBR (Rec. Fluid: General Hyd. Oil)

5 Piping Method ^{※2}

C : Connector Option
M : Manifold Option (O-ring Seal)



Locating
+ Clamp

Locating

Hand • Clamp

Support

Valve • Coupler

Electric Drive •
Conveyor

Cautions • Others

Air Safety Valve

BWS

Air
Sequence Valve

BWD

Auto Coupler

JVA/JVB0100

JVA/JVB0201

JVA/JVB0301

JVC/JVD

JVE/JVF

JNA/JNB

JNC/JND

JLP/JLS

JTA/JTB

Leakless Coupler

JWC/JWD

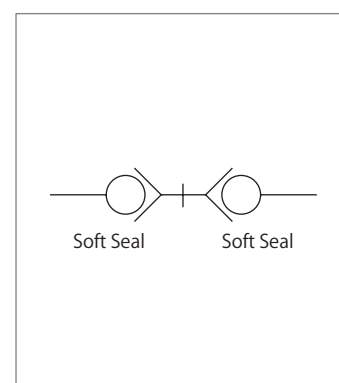
Rotary Joint

JR

Specifications

Model No.	Plug Side	JLP020-□-□0	JLP030-□-□0	JLP040-□-□0
	Socket Side	JLS020-□-□0	JLS030-□-□0	JLS040-□-□0
Min. Passage Area	mm ²	29	50	102
Offset Distance (Tolerance)	mm	±0.5	±0.5	±0.8
Angular Deviation (Tolerance)	DEG.		0.5	
Max. Operating Pressure MPa	4 Material W		3.5	
	4 Material H		3.5	
	4 Material O		25	
Operating Temperature °C	4 Material W/O		0 ~ 80	
	4 Material H		0 ~ 120	
Reaction Force kN	Operating Pressure at 3.5 MPa	0.64	0.84	1.47
	at 25.0 MPa	3.95	5.16	9.64
	at P MPa	0.154 × P + 0.10	0.201 × P + 0.13	0.380 × P + 0.14
Weight	Refer to External Dimensions			

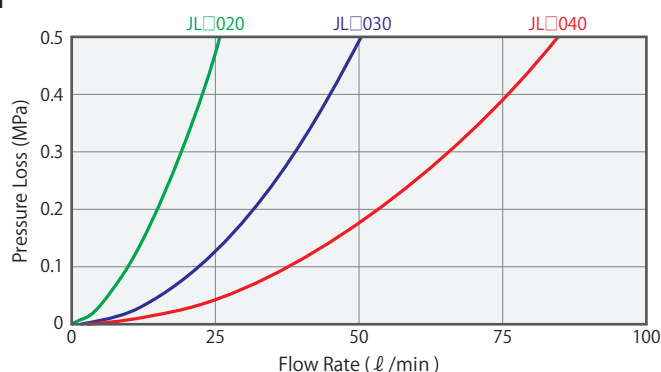
Circuit Symbol



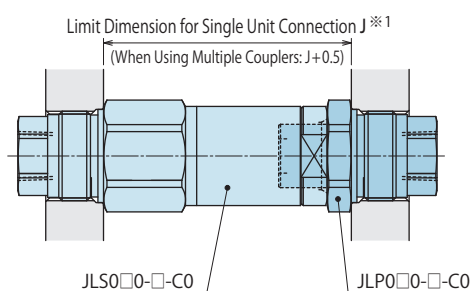
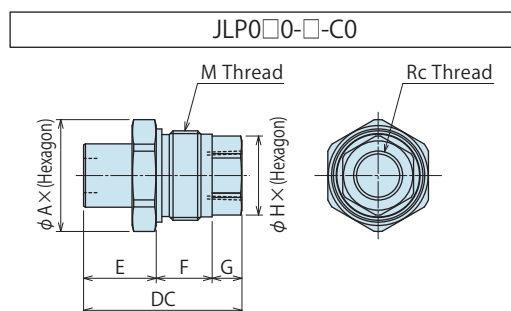
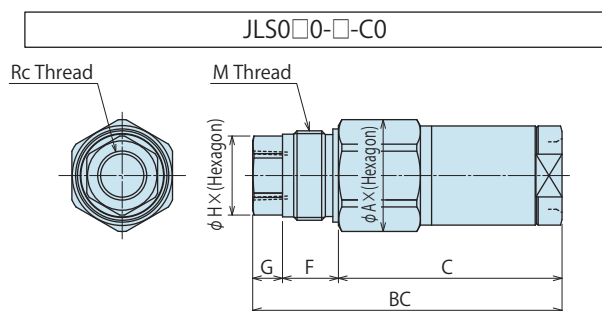
Flow Rate—Pressure Loss Characteristic Graph

The fluid used on this data is water (temperature is 20°C).

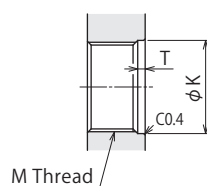
Pressure Loss (MPa)	Flow Rate (ℓ/min)		
	JL□020	JL□030	JL□040
0	0	0	0
0.1	10.0	21.8	37.7
0.2	14.0	31.1	52.2
0.3	19.0	38.1	65.2
0.4	22.0	44.0	74.1
0.5	26.0	50.0	85.0



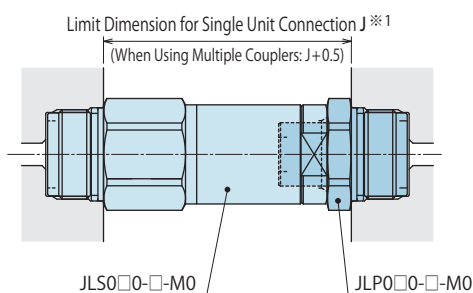
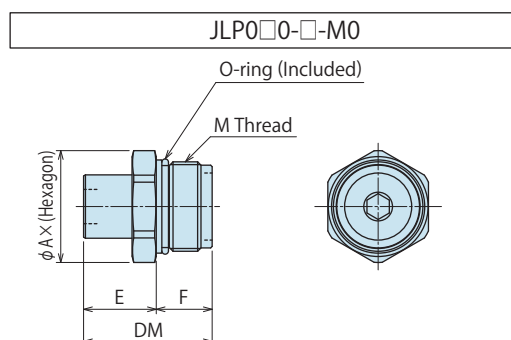
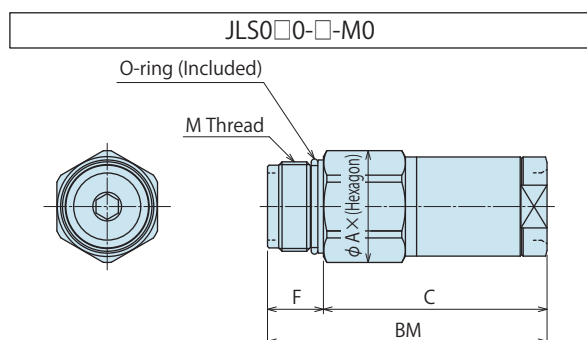
External Dimensions (JLP/JLS)



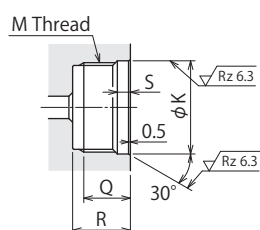
Machining Dimension for Mounting Hole JLS0□0-□-C0/JLP0□0-□-C0



Model No.	Thread Size (M Thread)	Tightening Torque (N·m)	
		When selecting Material W/H	When selecting Material O
JL□020-□-C0	M24×1.5	25	100
JL□030-□-C0	M27×1.5	40	100
JL□040-□-C0	M33×1.5	63	180



Machining Dimension for Mounting Hole JLS0□0-□-M0/JLP0□0-□-M0



Model No.	Thread Size (M Thread)	Tightening Torque (N·m)	
		When selecting Material W/H	When selecting Material O
JL□020-□-M0	M24×1.5	25	100
JL□030-□-M0	M27×1.5	40	100
JL□040-□-M0	M33×1.5	63	180

Dimensions

Model No.	JLP JLS	JLP020 JLS020	JLP030 JLS030	JLP040 JLS040
A×(Hexagon)	φ30×(27)	φ33×(30)	φ40×(36)	
BC	83	92.5	107	
BM	75	81.5	94	
C	60	65.5	76	
DC	42.5	48.5	57.5	
DM	34.5	37.5	44.5	
E	19.5	21.5	26.5	
F	15	16	18	
G	8	11	13	
H×(Hexagon)	φ21.2×(19)	φ24.5×(22)	φ30×(27)	
J	66.5	72	84.5	
K	φ25H8 ^{+0.033} ₀	φ28H8 ^{+0.033} ₀	φ34H8 ^{+0.039} ₀	
M	M24×1.5	M27×1.5	M33×1.5	
Q	12.5 or more	13.5 or more	15.5 or more	
R	15.5 or more	16.5 or more	18.5 or more	
S	3.5	3.5	3.5	
T	2	2	2	
Rc Thread	Rc1/4	Rc3/8	Rc1/2	

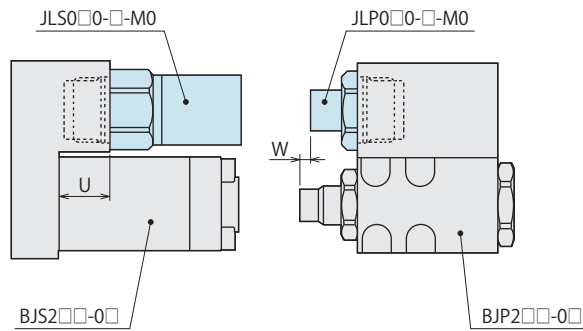
Note :

※1. When using multiple couplers, provide stopper(s) for connection dimension to be within +0.5mm of limit dimension for single unit connection.

Weight

Material		(kg)	
Piping Method C	JLS020-□-C0	In case of W/H	In case of O
	JLP020-□-C0	0.26	0.25
	JLS030-□-C0	0.09	0.09
	JLP030-□-C0	0.36	0.35
	JLS040-□-C0	0.13	0.13
	JLP040-□-C0	0.60	0.57
Piping Method M	JLS020-□-M0	0.26	0.26
	JLP020-□-M0	0.25	0.24
	JLS030-□-M0	0.08	0.08
	JLP030-□-M0	0.34	0.33
	JLS040-□-M0	0.11	0.11
	JLP040-□-M0	0.56	0.53
	JLP040-□-M0	0.22	0.22

Combination Sample



Model No.	JLP	JLP020-□-M0	JLP030-□-M0
	JLS	JLS020-□-M0	JLS030-□-M0
U		27.5	22
W		5.5	3.5

(mm)

Note :

1. Additionally install the air blow for JL□ (to prevent cutting chips).

Cautions (JLP/JLS)

< General Cautions >

1. Do not connect or disconnect the auto coupler under pressure (pressure remained state).
2. Release the air from the circuit before use (when using hydraulic oil).
3. Do not connect the coupler when each connecting surface is contaminated.
(When there are cutting chips or coolant, remove all contaminants with air blow.)
4. Prevent contaminants (cutting chips or sealing tapes) from entering into the circuit.
5. When using water or air as fluid, consider rust prevention of manifold blocks and pipe fittings.
6. When pressing up to the connection limit, the pressing force should be :
 higher than the reaction force and lower than 4.0kN for JL□020-W/H-□0, higher than the reaction force and lower than 6.0kN for JL□020-O-□0.
 higher than the reaction force and lower than 5.0kN for JL□030-W/H-□0, higher than the reaction force and lower than 9.0kN for JL□030-O-□0.
 higher than the reaction force and lower than 7.0kN for JL□040-W/H-□0, higher than the reaction force and lower than 12.0kN for JL□040-O-□0.
7. Please contact us when requiring the auto coupler with a larger passage area.

Locating
+
Clamp

Locating

Hand • Clamp

Support

Valve • Coupler

Electric Drive •
Conveyor

Cautions • Others

Air Safety Valve

BWS

Air
Sequence Valve

BWD

Auto Coupler

JVA/JVB0100

JVA/JVB0201

JVA/JVB0301

JVC/JVD

JVE/JVF

JNA/JNB

JNC/JND

JLP/JLS

JTA/JTB

Leakless Coupler

JWC/JWD

Rotary Joint

JR

Auto Coupler

Model JTA/JTB

Positive/Negative air pressure
(Operating Pressure Range: lower than 1MPa)



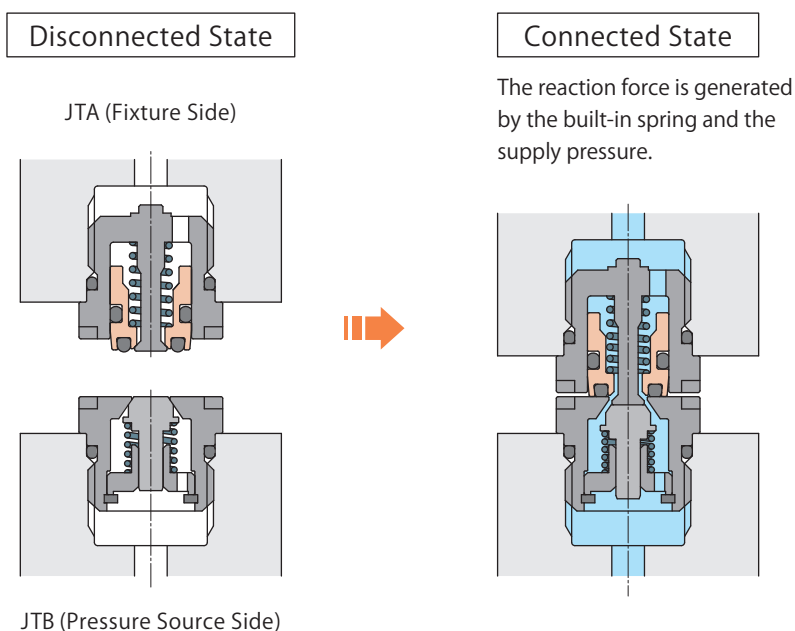
100% Stainless Steel

● JTA/JTB Feature

Ultra-Compact Auto Coupler

- ※ The auto coupler does not have the non-leak function. In case you need the non-leak function, please refer to "Non-Leak Coupler" on KWCS Complete Catalog or visit our website (<http://www.kosmek.com>).
- ※ No copper (Cu) or zinc (Zn) based materials are used.
Stainless steel and aluminum materials may contain copper (Cu) and zinc (Zn) as additive elements.

● Action Description



Model No. Indication

JT B 010 1 - H - CR

1 2 3 4

1 Style

- A** : O-ring side of Connection Surface
(Outgoing Side / Fixture Side)
- B** : Metal Side of Connection Surface
(Incoming Side / Pressure Source Side)

2 Design No.

- 1** : Revision Number

3 Material

- H** : Stainless Steel, Fluor Rubber

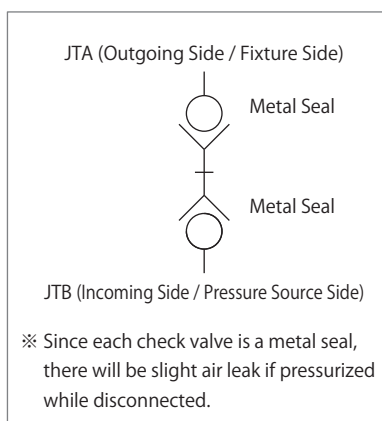
4 Grease

- Blank** : NBU8EP made by NOK KLUEBER (Standard)
- CR** : AFF made by THK (For clean environment)
- FD** : NH1 64-422 made by NOK KLUEBER
(For food machinery)

Specifications

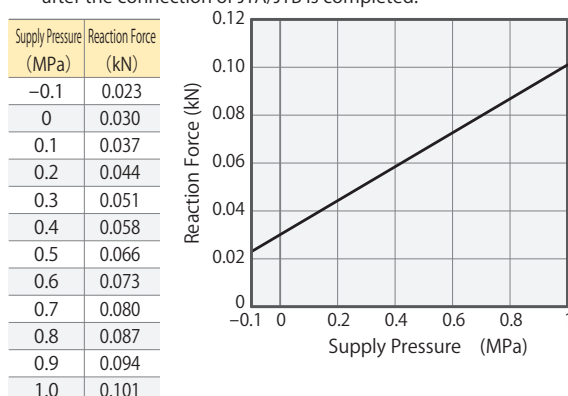
Model No.	Fixture Side	JTA0101-H-□
	Pressure Source Side	JTB0101-H-□
Max. Operating Pressure	MPa	1.0
Withstanding Pressure	MPa	1.5
Min. Passage Area	mm ²	5
Offset Distance (Tolerance)	mm	±0.5
Angular Deviation (Tolerance)	DEG.	0.3
Operating Temperature	°C	0 ~ 120
Usable Fluid		Positive / Negative air pressure
Reaction Force kN	Operating Pressure at 1 MPa	0.101
	at 0.5 MPa	0.066
	at P MPa	$0.071 \times P + 0.03$
Weight g	JTA	15
	JTB	13

Circuit Symbol



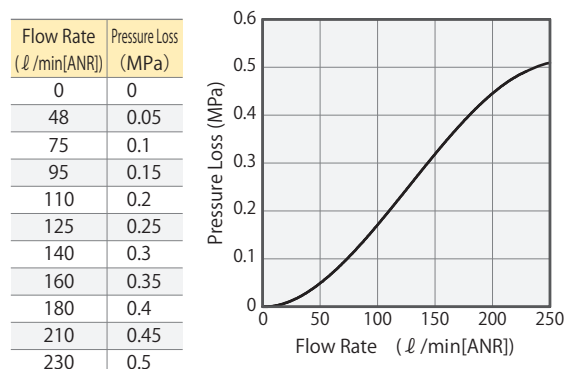
Supply Pressure—Reaction Force Graph

The graph shows the reaction force when supplying pressure after the connection of JTA/JTB is completed.



Flow Rate—Pressure Loss Characteristic Graph

The fluid used on this data is air.

Locating
+
Clamp

Locating

Hand • Clamp

Support

Valve • Coupler

Electric Drive •
Conveyor

Cautions • Others

Air Safety Valve

BWS

Air
Sequence Valve

BWD

Auto Coupler

JVA/JVB0100

JVA/JVB0201

JVA/JVB0301

JVC/JVD

JVE/JVF

JNA/JNB

JNC/JND

JLP/JLS

JTA/JTB

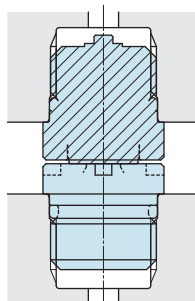
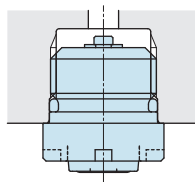
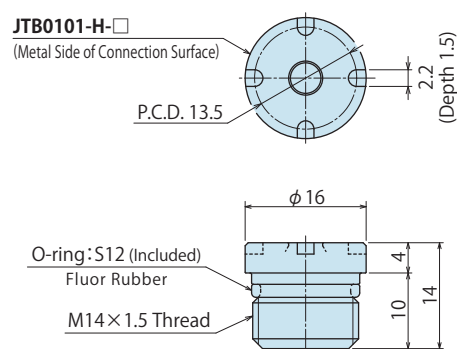
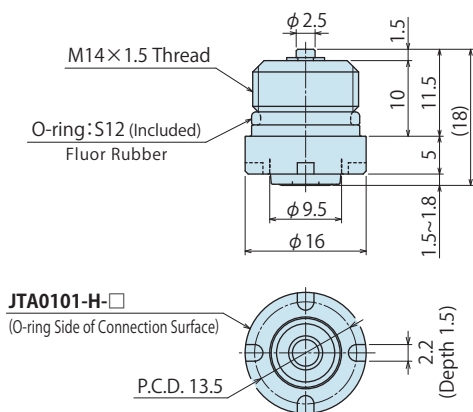
Leakless Coupler

JWC/JWD

Rotary Joint

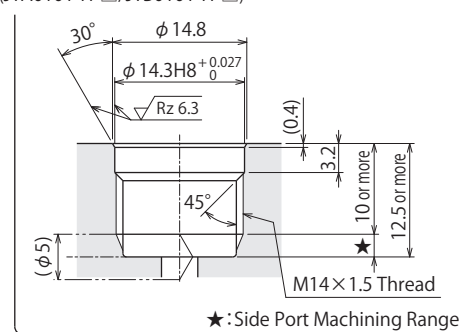
JR

External Dimensions (JTA/JTB)



Connection Setting Dimension $9.5_{-0.4}^{0}$
(Limit Dimension for Single Unit Connection $9_{-0.2}^{0}$)

Mounting Hole Machining Dimensions
(JTA0101-H-□/JTB0101-H-□)



Model No.	Thread Size	Tightening Torque (N·m)
JTA0101-H-□ JTB0101-H-□	M14×1.5	10

Note :

1. Mounting Jig (Model ZZJ0040) or equivalent is required to install and remove JTA/JTB.
Mounting Jig (Model ZZJ0040) is not included with JTA/JTB. Please order separately.

Accessory : Mounting Jig

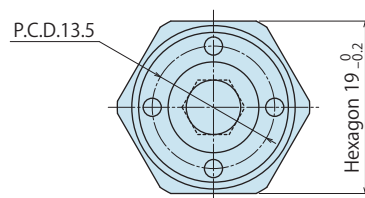
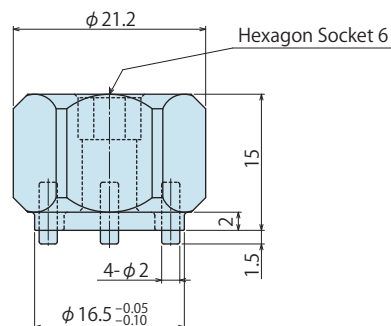
This jig is used to mount and remove the JTA/JTB.

Tightening Torque: 10N·m

Model No. Indication

ZZJ0040

Design No.
(Revision Number)

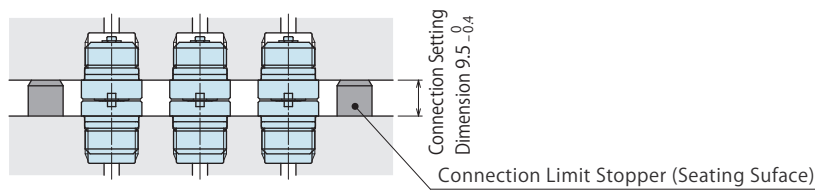


Note :

1. Mounting Jig (Model ZZJ0040) or equivalent is required to install and remove JTA/JTB.
Please determine the required number of jigs when ordering.

Cautions (JTA/JTB)

1. Make sure to supply fluid after connection is completed.
2. Since each check valve is a metal seal, there will be slight fluid leaks if pressurized while disconnected.
3. Do not connect the coupler when contaminants are adhered on each connecting surface.
 When there are cutting chips or coolant, install a cover, or remove all contaminants with air blow.
4. Exceeding allowable offset leads to damage on internal parts. It is recommended to install a guide pin.
5. When using connection limit stopper(s) or multiple couplers (more than three of them), make sure it becomes the connection setting dimension when connected.



6. When pressing up to the connection limit, the force should be higher than the reaction force and lower than 1.0kN.
7. For mounting and removing the coupler, use the mounting jig (ZZJ0040) or equivalent.
8. When using with the pallet clamp (VS/WVS), it is recommended to use the auto coupler model JVC/JVD or JVE/JVF.
 (When using JTA/JTB with the pallet clamp: If a pallet might be lifted up by the spring reaction force when setting, the connection setting dimension needs to be reconsidered. Please contact us.)

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JVA/JVB0100
JVA/JVB0201
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JNA/JNB
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JLP/JLS
JTA/JTB

Leakless Coupler
JWC/JWD

Rotary Joint
JR

● Cautions

● Notes on Handling

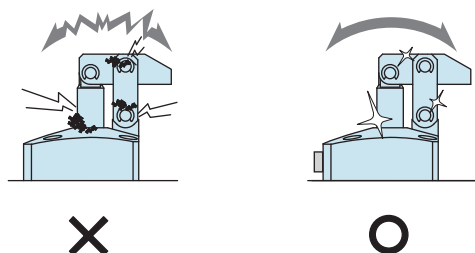
- 1) It should be operated by qualified personnel.
- The hydraulic machine and air compressor should be operated and maintained by qualified personnel.
- 2) Do not operate or remove the product unless the safety protocols are ensured.
 - ① The machine and equipment can only be inspected or prepared when it is confirmed that the safety devices are in place.
 - ② Before the product is removed, make sure that the above-mentioned safety devices are in place. Shut off the pressure and power source, and make sure no pressure exists in the air and hydraulic circuits.
 - ③ After stopping the product, do not remove until the temperature drops.
 - ④ Make sure there is no trouble/issue in the bolts and respective parts before restarting the machine or equipment.
- 3) Do not touch a clamp (cylinder) while it is working. Otherwise, your hands may be injured.



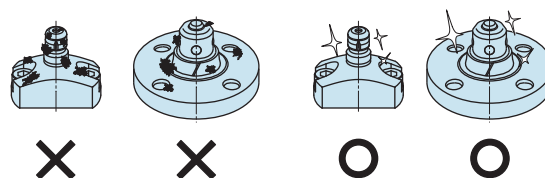
- 4) Do not disassemble or modify.
- If the equipment is taken apart or modified, the warranty will be voided even within the warranty period.

● Maintenance and Inspection

- 1) Removal of the Machine and Shut-off of Pressure Source
 - Before removing the product, make sure that the safety devices are in place. Shut off the pressure and power source and make sure no pressure exists in the air and hydraulic circuits.
 - Make sure there is no trouble/issue in the bolts and respective parts before restarting.
- 2) Regularly clean the area around the piston rod and plunger.
 - If it is used when the surface is contaminated with dirt, it may lead to packing seal damage, malfunctioning, fluid leakage.



- 3) Regularly clean the reference surfaces (taper reference surface and seating surface) of locating products (SWT/SWQ/SWP/VRA/VRC/VX/VXE/VXF/WVS/WVG/VWH/VWM/VWK).
 - Locating products (except VRA/VRC/VX/VXE/VXF and SWR without air blow port) can remove contaminants with the cleaning function. When installing a workpiece or a pallet, make sure there are no contaminants such as thick sludge.
 - Continuous use with dirt on components will lead to locating failure, fluid leakage and malfunction.



- 4) Regularly tighten pipe, mounting bolt, nut, snap ring, cylinder and others to ensure proper use.
- 5) Make sure the hydraulic fluid has not deteriorated.
- 6) Make sure there is a smooth action without an irregular noise.
 - Especially when it is restarted after left unused for a long period, make sure it can be operated correctly.
- 7) The products should be stored in the cool and dark place without direct sunshine or moisture.
- 8) Please contact us for overhaul and repair.

● Warranty

1) Warranty Period

- The product warranty period is 18 months from shipment from our factory or 12 months from initial use, whichever is earlier.

2) Warranty Scope

- If the product is damaged or malfunctions during the warranty period due to faulty design, materials or workmanship, we will replace or repair the defective part at our expense.

Defects or failures caused by the following are not covered.

- ① If the stipulated maintenance and inspection are not carried out.
- ② Failure caused by the use of the non-confirming state at the user's discretion.
- ③ If it is used or operated in an inappropriate way by the operator.
(Including damage caused by the misconduct of the third party.)
- ④ If the defect is caused by reasons other than our responsibility.
- ⑤ If repair or modifications are carried out by anyone other than Kosmek, or without our approval and confirmation, it will void warranty.
- ⑥ Other caused by natural disasters or calamities not attributable to our company.
- ⑦ Parts or replacement expenses due to parts consumption and deterioration.
(Such as rubber, plastic, seal material and some electric components.)

Damages excluding from direct result of a product defect shall be excluded from the warranty.

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Cautions

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Sales Offices

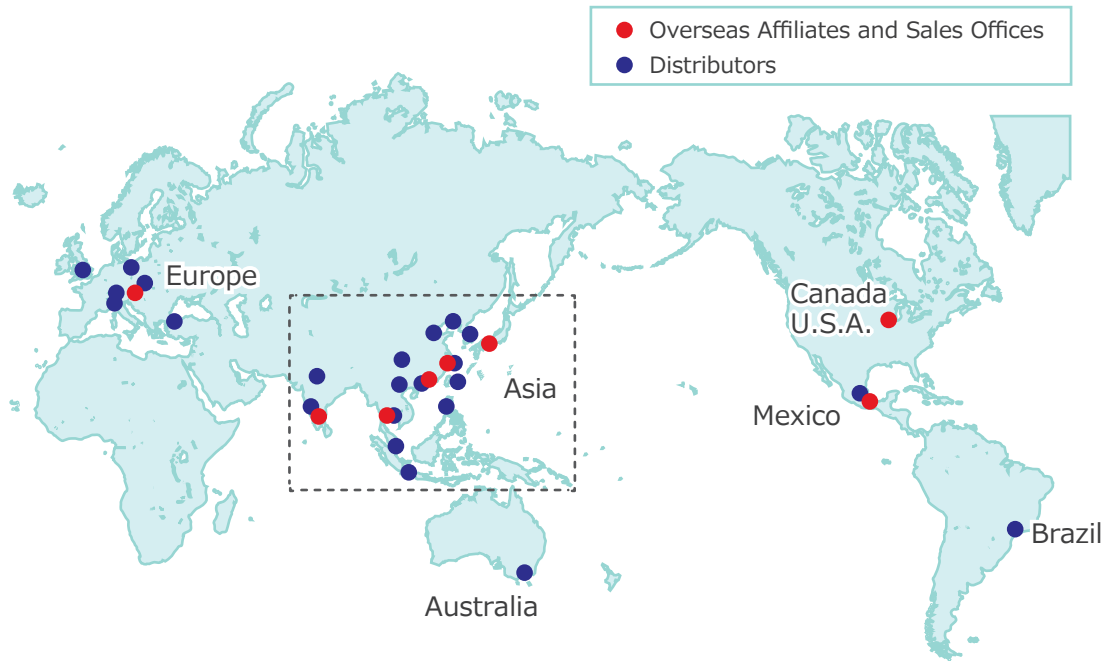
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