# **Rotary Joint SUS304**

Push-in fitting for swinging and rotation applications

## ▲ Safety instructions for this product

Safety instructions, Common safety instructions for each product category and Detailed safety instructions for each product are in the end of this catalog and our website.

# Model Designation (Example)



## (1) Rotary Joint

## (2) Fluid medium

Code	W	Α
Fluid medium	Water	Air

## (3) Type

L: Elbow

## (4) Tube dia. (øD)

	mm size (mm)					in	ich size (incl	h)
Code	4	6	8	10	12	1/4	3/8	1/2
Tube O.D.	ø4(5/32in.)	ø6	ø8(5/16in.)	ø10	ø12	ø1/4	ø3/8	ø1/2

## (5) Thread size (R)

	Metric	thread	Taper pipe thread			UNF thread	Na	tional pipe f	thread tape	ed	
Code	M5	M6	01	02	03	04	U10	N1	N2	N3	N4
Thread size	M5×0.8	M6×1	R1/8	R1/4	R3/8	R1/2	10-32UNF	NPT1/8	NPT1/4	NPT3/8	NPT1/2

#### (6) Metal material SUS: SUS304

(7) Seal rubber material (Optional)

Code	No code	-F
Material	EPDM	FKM

(8) Thread sealing spec. (Optional) (Taper pipe thread and NPT thread only)

Code	No code	-TP
Thread	No sealock,	Seal tape spec.
sealing	no sealing tape	(Seal tape is applied on thread part)

## Characteristics

Use with water SUS304 Push-in fitting for swinging and rotation applications.

\*For Water Spec. (RWL)

Two types are available depending on the fluid used: Water Spec. Type (RWL) and Air Spec. Type (RAL).

PPS, SUS304, etc. with chemical resistance and corrosion resistance are used for the fluid contact part.

- Copper Alloy free.
- Oil-free for all of fluid contact parts.

\*Non-contact fluid part is not applicable.

The lineup of seal rubber materials is EPDM and FKM.

## Specifications

Fluid medium code	W	Α	
Fluid medium	Water, other liquid (Conditional*)	Air, other gases (Conditional*)	
Max. operating pressure	0.7 MPa		
Max. vacuum	-	-100 kPa	
Operating temp. range	0 to 60°C (no freezing)		
Allowable rotation	500 min <sup>-1</sup>		

▲ Warning

1. Make sure to follow the instructions below when the fluid medium is water or liquid.

- Surge pressure must be controlled lower than max. operating pressure when using water or liquid as a fluid medium.
  General tap water in Japan, free from foreign substances or contamination,
- General tap water in Japan, free from foreign substances or contamination, can be used. Carry out the evaluation under an actual operating condition for using other kind of water.

 Be sure to use Insert Ring (WR) when using water or liquid as a fluid medium.
The specification above may not be applied, depending on the kind of chemicals used as fluid medium. Make sure to use PISCO products after verifying their suitability on the user side.

\*2. The specification above may not be applied, depending on the kind of mixed gases used as fluid medium. Make sure to use PISCO products after verifying their suitability on the user side.

# Sectional drawing



		Mat	erial		
No,	Parts	RWL	RAL		
(1)	Lock claws	Stainle	ss steel		
(2)	Release-ring	PP (Transparent)	PP (Blue)		
(3)	Tube	Fluororesin (PF	A) or (FEP) etc.		
(4)	Guide ring	SUS	SUS304		
(5)	Elastic sleeve	EPDM (Opt	EPDM (Optional: FKM)		
(6)	Resin body	PI	PPS		
(7)	O-ring	EPDM (Opt	tional: FKM)		
(8)	Fixing pin	SUS	5304		
(9)	Shaft	SUS	5304		
(10)	Retainer	SUS	SUS304		
(11)	Seal retainer	SUS	SUS304		
(12)	Radial seal	Polyolefin & SUS302	Fluororesin & SUS30		
(13)	Metallic body	SUS	SUS304		

\*1. The gasket of Metric thread and UNF thread is PPS.

\*2. NBR is used for bearings.

\*3. The Insert Ring (sold separately) uses SUS304.

\*4. For RAL, Insert Ring (sold separately) is not required.

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RoHS2 (2011/65/EU+EU2015/863) compliant
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_	Model code	Model code	_	Model code	Model code
Туре	RWLøD-R	RWLøD-R	Туре	RALøD-R	RALøD-R
Water, other	RWL4-M5SUS7	RWL4-U10SUS7	Air, other	RAL4-M5SUS7	RAL4-U10SUS7
liquid spec.	RWL4-M6SUS7	RWL4-N1SUS78	gases spec.	RAL4-M6SUS7	RAL4-N1SUS78
RWL New	RWL4-01SUS78	RWL8-N1SUS78	RAL New	RAL4-01SUS78	RAL8-N1SUS78
- Fr	RWL6-M5SUS7	RWL8-N2SUS78		RAL6-M5SUS7	RAL8-N2SUS78
øD	RWL6-M6SUS7	RWL8-N3SUS78		RAL6-M6SUS7	RAL8-N3SUS78
	RWL6-01SUS78	RWL1/4-N1SUS78		RAL6-01SUS78	RAL1/4-N1SUS78
	RWL6-02SUS78	RWL1/4-N2SUS78		RAL6-02SUS78	RAL1/4-N2SUS78
	RWL8-01SUS78	RWL3/8-N1SUS78		RAL8-01SUS78	RAL3/8-N1SUS78
R	RWL8-02SUS78	RWL3/8-N2SUS78	R	RAL8-02SUS78	RAL3/8-N2SUS78
	RWL8-03SUS78	RWL3/8-N3SUS78		RAL8-03SUS78	RAL3/8-N3SUS78
	RWL10-01SUS78	RWL3/8-N4SUS78		RAL10-01SUS78	RAL3/8-N4SUS78
	RWL10-02SUS78	RWL1/2-N3SUS78		RAL10-02SUS78	RAL1/2-N3SUS78
	RWL10-03SUS78	RWL1/2-N4SUS78		RAL10-03SUS78	RAL1/2-N4SUS78
	RWL10-04SUS78			RAL10-04SUS78	
	RWL12-02SUS78			RAL12-02SUS78	
	RWL12-03SUS78			RAL12-03SUS78	
	RWL12-04SUS78			RAL12-04SUS78	
	RWL1/4-01SUS78			RAL1/4-01SUS78	
	RWL1/4-02SUS78			RAL1/4-02SUS78	
	RWL3/8-01SUS78			RAL3/8-01SUS78	
	RWL3/8-02SUS78			RAL3/8-02SUS78	
	RWL3/8-03SUS78			RAL3/8-03SUS78	
	RWL3/8-04SUS78			RAL3/8-04SUS78	
	RWL1/2-02SUS78			RAL1/2-02SUS78	
	RWL1/2-03SUS78			RAL1/2-03SUS78	
	RWL1/2-04SUS78			RAL1/2-04SUS78	

### Packaging specifications

## Package 1 pc. /bag

### Standard Optional

Option	Code	7:-F	8 : <b>-TP</b>				
	Specifications	Seal rubber material optional: FKM	Seal tape on thread				
		(Fill in 7 with "-F")	(Fill in 8 with "-TP")				

