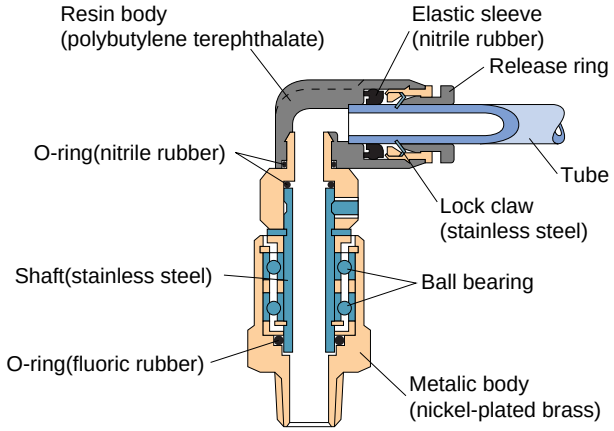
Quick-fitting Joint for High speed Swiveling and Swinging Connections

High Rotary Joint

Feature

■The High Rotary Joint, employing two bearings, is suitable for high-speed swiveling and swinging connections where the Rotary Joint cannot cover.

Construction



Specification

Fluid admitted	Air
Service pressure range	0~150 psi (0~0.9MPa)
Working vacuum	-29.5in.Hg (-100kPa)
Service temperature range	32~140˚F (0~60°C)

Maximum revolution of High Rotary Joint

Tube dia.	ϕ4mm, ϕ5/32	ϕ6mm, ϕ3/16, ϕ1/4inch	ϕ8mm, ϕ5/16inch	ϕ10mm, ϕ3/8inch	ϕ12mm, ϕ1/2
Max.rev.	1500 r.p.m	1200 r.p.m		1000 r.p.m	

Model Designation (Example)

RHL (1) 6 (2) - 01 (3) (4)

(1)Type

(2)Tube dia.

Tube dia.	mm size					Inch size					
Code	4	6	8	10	12	5/32	3/16	1/4	5/16	3/8	1/2
Size(mm)	ϕ4	ϕ6	ϕ8	ϕ10	ϕ12	ϕ5/32	ϕ3/16	ϕ1/4	ϕ5/16	ϕ3/8	ϕ1/2

(3)Thread size

	Metric thread(mm)		Taper pipe thread			
Code	M5	M6	01	02	03	04
Size	M5×0.8	M6×1.0	R1/8	R1/4	R3/8	R1/2
	United fine thread		American standard taper pipe thread			
Code	U10		N1	N2	N3	N4
Size	10-32UNF		NPT1/8	NPT1/4	NPT3/8	NPT1/2

(4)Hexagon flat-to-flat specification

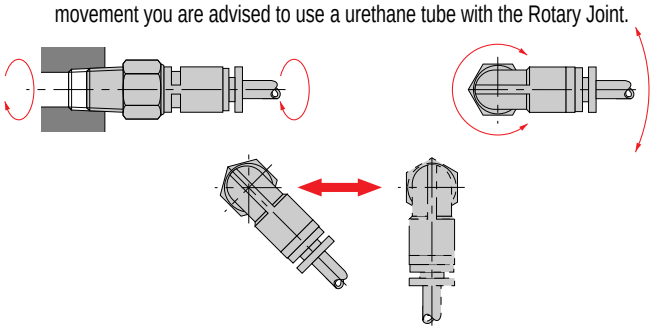
U: Hexagon flat-to-flat inch spec. (NPT)

No code: Hexagon flat-to-flat mm spec.

Usage Notes

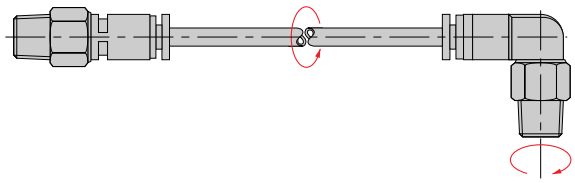
⚠Caution

■The Rotary Joint is small-sized and lighweight because of the combination of an ultra-thin ball bearing and a slide bearing. Therefore, use it in such a way as to minimize the radial load. For applications involving violent movement you are advised to use a urethane tube with the Rotary Joint.



●Example of Combination

■Combined with straight and elbow-type joints, the Rotary Joint can handle three, dimensional movements.



Detailed Safety Instructions

Before using the PISCO device, be sure to read the "Safety Instructions", "Common Safety Instructions for Products Listed in this Manual" on page 23~24 and "Common Safety Instructions for Quick-Fitting Joint" on page 29~31.

⚠Caution

1. High Rotary Joint can accommodate a certain degree of radial load, but radial load may shorten its life. Therefore consult PISCO about applications involving much radial load.
2. Use a urethane tube where violent swinging is involved. Nylon tube or other hard tubes may increase radial load.