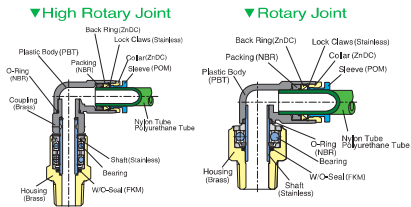


ROTARY JOINTS

FEATURES

- Two embedded bearings better accommodate high speed rotation and swinging of pneumatic connections.
- Built in bearing accommodates the rotation and swinging of pneumatic connections.
- Rotary joints are constructed to fairly withstand the vibration or tubing movements.

STRUCTURAL DIAGRAM



NUMBER OF ROTATION

Model	NHRC, NHRL, NHRS, NHRF
Tube Dia	φ4 φ6 φ8 φ10 φ12
r. p. m	1500 1200 1200 1000 1000

Model	NRC, NRL
Tube Dia	φ4 φ6 φ8 φ10 φ12
r. p. m	500 500 400 300 250

SPECIFICATIONS

Compatible Fluid Type	Air (No other gases or liquids)	
Pressure Range	0~1.50PSI	0~9.9gf/cm ² (0~9.00Pa)
Negative Pressure	-29.5in-Hg	-750mmHg(10Torr)
Temperature Range	32~140F	0~63°C
Recommended Tube Material	Polyurethane and Nylon	

PRODUCT CODE SYSTEM



① Model Type

② Tube Outer Dia (φD)

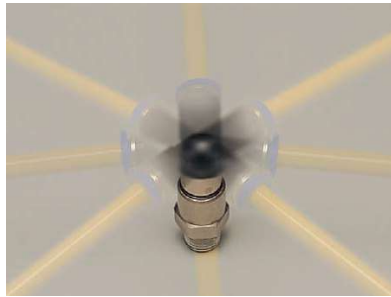
Code	Metric Size					Inch Size					
	04	06	08	10	12	5/32	3/16	1/4	5/16	3/8	1/2
Dia	φ4	φ6	φ8	φ10	φ12	φ6.32	φ8.16	φ1.4	φ5.16	φ3.8	φ1.2

③ Thread Size(T)

Code	Metric Thread & R(PT) Thread			
	Metric Size	Taper Pipe Thread		
Size	M5 × 0.8	M6 × 1.0	R1/8	R1/4
			R3/8	R1/2

Code	Unified Fine Thread		American Standard Taper pipe Thread	
	U10U	N01U	N02U	N03U
Size	10-32UNF	NPT1/8	NPT1/4	NPT3/8
			NPT1/2	

④ U : Hexagon flat-to-flat inch specification. (NPT)



MODEL (φD-T)	Tube (Metric-Thread(R))			
	Tube (Inch-Thread(R))	Tube (Inch-Thread(NPT))	NHRC 1/2-N03U	
NHRC Straight	NHRC 04-M5	NHRC 1/4-01	NHRC 5/32-N01U	NHRC 1/2-N04U
	NHRC 04-M6	NHRC 1/4-02	NHRC 3/16-N01U	
	NHRC 04-01	NHRC 5/16-01	NHRC 3/16-N01U	
	NHRC 06-01	NHRC 5/16-02	NHRC 3/16-N02U	
	NHRC 06-02	NHRC 3/8-03	NHRC 3/16-N02U	
	NHRC 08-01	NHRC 3/8-04	NHRC 1/4-N01U	
	NHRC 08-02		NHRC 1/4-N02U	
	NHRC 10-03		NHRC 5/16-N01U	
	NHRC 10-04		NHRC 5/16-N02U	
	NHRC 12-03		NHRC 3/8-N03U	
	NHRC 12-04		NHRC 3/8-N04U	

MODEL (φD-T)	Tube (Metric-Thread(R))			
	Tube (Inch-Thread(R))	Tube (Inch-Thread(NPT))	NHRL 1/2-N03U	
NHRL Elbow	NHRL 04-M5	NHRL 1/4-01	NHRL 5/32-N01U	NHRL 1/2-N03U
	NHRL 04-M6	NHRL 1/4-02	NHRL 3/16-N01U	NHRL 1/2-N04U
	NHRL 04-01	NHRL 5/16-01	NHRL 3/16-N01U	
	NHRL 06-01	NHRL 5/16-02	NHRL 3/16-N02U	
	NHRL 06-02	NHRL 3/8-03	NHRL 3/16-N02U	
	NHRL 08-01	NHRL 3/8-04	NHRL 1/4-N01U	
	NHRL 10-03		NHRL 1/4-N02U	
	NHRL 10-04		NHRL 5/16-N01U	
	NHRL 12-03		NHRL 5/16-N02U	
	NHRL 12-04		NHRL 3/8-N03U	
	NHRL 12-04		NHRL 3/8-N04U	

MODEL (T1-T2)	Thread (R)-Thread (R)		Thread (NPT)-Thread (NPT)	
	NHRS Nipple	NHRS 01-01		NHRS N01-N01U
NHRS 01-02			NHRS N01-N02U	
NHRS 02-01			NHRS N02-N01U	
NHRS 02-02			NHRS N02-N02U	
NHRS 03-03			NHRS N03-N03U	
NHRS 03-04			NHRS N03-N04U	
NHRS 04-03			NHRS N04-N03U	
NHRS 04-04			NHRS N04-N04U	

MODEL (T1-T2)	Thread (R)-Thread (Rc)		Thread (NPT)-Thread (NPT)	
	NHRF Bush	NHRF 01-01		NHRF N01-N01U
NHRF 01-02			NHRF N01-N02U	
NHRF 02-01			NHRF N02-N01U	
NHRF 02-02			NHRF N02-N02U	
NHRF 03-03			NHRF N03-N03U	
NHRF 03-04			NHRF N03-N04U	
NHRF 04-03			NHRF N04-N03U	
NHRF 04-04			NHRF N04-N04U	

Fittings with G Thread (O-Ring)

MODEL (φD-T)	Tube (Metric-Thread(R))			
	Tube (Inch-Thread(R))	Tube (Inch-Thread(NPT))	NRC 1/2-N03U	
NRC Straight	NRC 04-M5	NRC 1/4-01	NRC 5/32-U10U	NRC 1/2-N03U
	NRC 04-M6	NRC 1/4-02	NRC 3/16-N01U	NRC 1/2-N04U
	NRC 04-01	NRC 5/16-01	NRC 3/16-N01U	
	NRC 06-M5	NRC 5/16-02	NRC 3/16-N02U	
	NRC 06-M6	NRC 5/16-03	NRC 1/4-N01U	
	NRC 06-01	NRC 3/8-03	NRC 1/4-N02U	
	NRC 08-02	NHRS 5/16-N01U	NRC 5/16-N01U	
	NRC 08-01	NRC 3/8-04	NRC 5/16-N02U	
	NRC 08-02		NRC 5/16-N03U	
	NRC 08-03		NRC 3/8-N03U	
	NRC 10-03		NRC 3/8-N04U	

MODEL (φD-T)	Tube (Metric-Thread(R))			
	Tube (Inch-Thread(R))	Tube (Inch-Thread(NPT))	NRL 1/2-N03U	
NRL Elbow	NRL 04-M5	NRL 1/4-01	NRL 5/32-U10U	NRL 1/2-N03U
	NRL 04-M6	NRL 1/4-02	NRL 3/16-N01U	NRL 1/2-N04U
	NRL 04-01	NRL 5/16-01	NRL 3/16-N01U	
	NRL 06-M5	NRL 5/16-02	NRL 3/16-N02U	
	NRL 06-M6	NRL 5/16-03	NRL 1/4-N01U	
	NRL 06-01	NRL 3/8-03	NRL 1/4-N02U	
	NRL 08-02	NRL 3/8-04	NRL 5/16-N01U	
	NRL 08-01		NRL 5/16-N02U	
	NRL 08-02		NRL 5/16-N03U	
	NRL 08-03		NRL 3/8-N03U	
	NRL 10-03		NRL 3/8-N04U	

MODEL (φD-T)	Tube (Metric-Thread(G))		
	Tube (Inch-Thread(G))	NHRC 04-G01	
NHRC-G Straight	NHRC 04-G01		NHRC 06-G01
	NHRC 06-G02		NHRC 08-G02
	NHRC 08-G01		NHRC 08-G02
	NHRC 08-G03		NHRC 08-G03
	NHRC 10-G03		NHRC 10-G03
	NHRC 10-G04		NHRC 10-G04
	NHRC 12-G03		NHRC 12-G03
	NHRC 12-G04		NHRC 12-G04

MODEL (φD-T)	Male Thread (R)-Male Thread (G)		
	Female Thread (G)	NHRS G01-G01	
NHRS-G Nipple	NHRS G01-G01		NHRS G02-G01
	NHRS G02-G02		NHRS G02-G02
	NHRS G03-G03		NHRS G03-G03
	NHRS G03-G04		NHRS G03-G04
	NHRS G04-G03		NHRS G04-G03
	NHRS G04-G04		NHRS G04-G04

MODEL (φD-T)	Tube (Metric-Thread(G))		
	Tube (Inch-Thread(G))	NRC 04-G01	
NRC-G Straight	NRC 04-G01		NRC 06-G01
	NRC 06-G02		NRC 08-G02
	NRC 08-G01		NRC 08-G02
	NRC 08-G03		NRC 08-G03
	NRC 10-G03		NRC 10-G03
	NRC 10-G04		NRC 10-G04
	NRC 12-G03		NRC 12-G03
	NRC 12-G04		NRC 12-G04

MODEL (φD-T)	Tube (Metric-Thread(G))		
	Tube (Inch-Thread(G))	NHRL 04-G01	
NHRL-G Elbow	NHRL 04-G01		NHRL 06-G01
	NHRL 06-G02		NHRL 08-G02
	NHRL 08-G01		NHRL 08-G02
	NHRL 08-G03		NHRL 08-G03
	NHRL 10-G03		NHRL 10-G03
	NHRL 10-G04		NHRL 10-G04
	NHRL 12-G03		NHRL 12-G03
	NHRL 12-G04		NHRL 12-G04

MODEL (T1-T2)	Male Thread (G)-Female Thread (G)		
	Female Thread (G)	NHRF G01-G01	
NHRF-G Bush	NHRF G01-G01		NHRF G02-G01
	NHRF G02-G02		NHRF G02-G02
	NHRF G03-G03		NHRF G03-G03
	NHRF G03-G04		NHRF G03-G04
	NHRF G04-G03		NHRF G04-G03
	NHRF G04-G04		NHRF G04-G04

MODEL (φD-T)	Tube (Metric-Thread(G))		
	Tube (Inch-Thread(G))	NRL 04-G01	
NRL-G Elbow	NRL 04-G01		NRL 06-G01
	NRL 06-G02		NRL 08-G02
	NRL 08-G01		NRL 08-G02
	NRL 08-G03		NRL 08-G03
	NRL 10-G03		NRL 10-G03
	NRL 10-G04		NRL 10-G04
	NRL 12-G03		NRL 12-G03
	NRL 12-G04		NRL 12-G04