

ROTARY JOINTS

Application

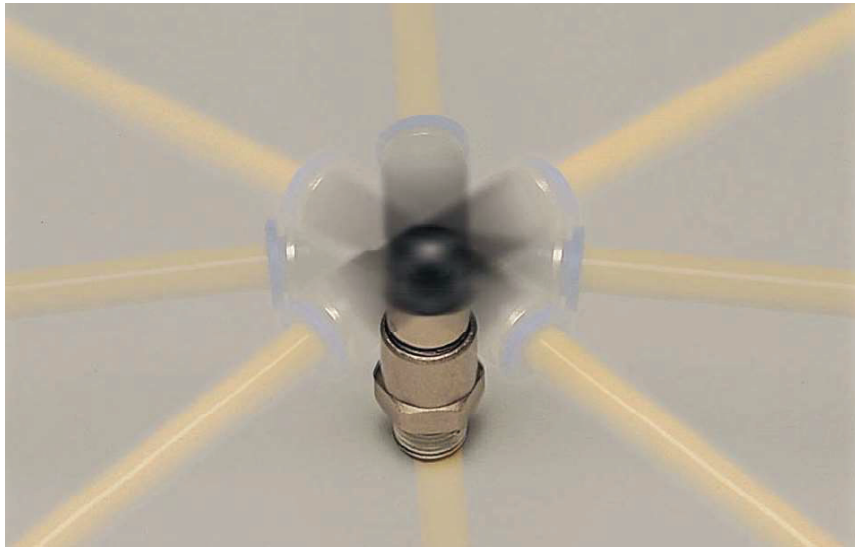
- Used for supplying compressed air at swiveling or swinging connections.
- Used for index tables and industrial robots.

Feature

- Built in bearings, suitable for high-speed swiveling pneumatic connections..

Specification

Fluid	Air(No other gases or liquids)	
Working Pressure Range	0~150PSI	0~9Kgf/cm ² (0~900kPa)
Negative Pressure	-29.50 in Hg	-750mmHg(10Torr)
Temperature Range	32~140° F	0~60°C
Applicable Tube Material	Polyurethane and Nylon	



Product Code System

NHRC 06-01

(1) (2) (3)

① Type

② Tube Dia(∅D)

Code	04	06	08	10	12
Dia	∅4	∅6	∅8	∅10	∅12

③ Thread Size(T)

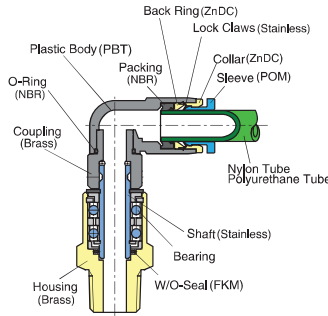
	Metric Size		Taper Pipe Thread			
Code	M5	M6	01	02	03	04
Size	M5 x0.8	M6 x1.0	R1/8	R1/4	R3/8	R1/2

Number of Rotations

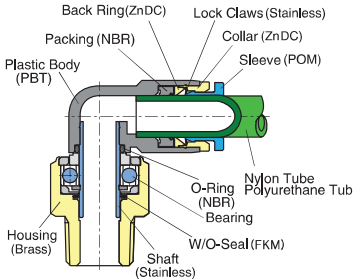
	Tube Dia	Ø4	Ø6	Ø8	Ø10	Ø12
r.p.m	Low NRC, NRL	500	500	400	300	250
	High NHRC, NHRL, NHRS, NHRF	1,500	1,200	1,200	1,000	1,000

Structural Diagram

▼High Rotary Joint



▼Rotary Joint

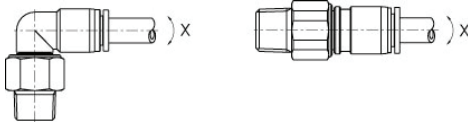


⚠ CAUTION

-Be sure to read "Common Precautions" and "Using Precautions of Fitting Series"(P6) before using.

⚠ WARNING

- When using at high speed, use PU tube.
- Nylon or other hard tube can cause overload of the rotation.



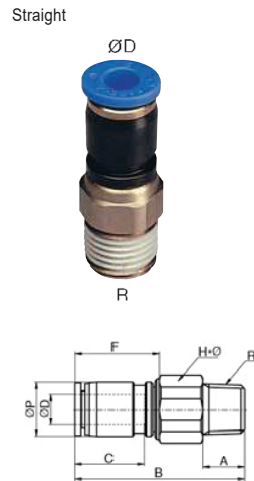
Rotary Joints



Fitting with G Thread (O-Ring)



NRC

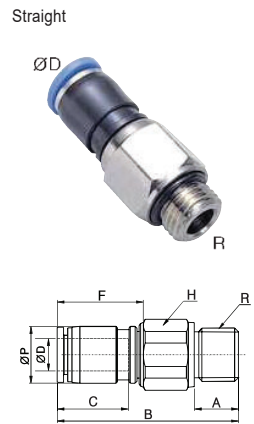


MODEL [ØD-T]		
Tube (Metric) - Thread(R)		
MODEL	ØD	R
NRC 04-M5	4	M5
NRC 04-M6	4	M6
NRC 04-01	4	R1/8
NRC 06-M5	6	M5
NRC 06-M6	6	M6
NRC 06-01	6	R1/8
NRC 06-02	6	R1/4
NRC 08-01	8	R1/8
NRC 08-02	8	R1/4
NRC 08-03	8	R3/8
NRC 10-03	10	R3/8
NRC 10-04	10	R1/2
NRC 12-03	10	R3/8
NRC 12-04	12	R1/2

Tube (Inch) - Thread(R)		
MODEL	ØD	R
NRC 1/4-R01	1/4	R1/8
NRC 1/4-R02	1/4	R1/4
NRC 5/16-R01	5/16	R1/8
NRC 5/16-R02	5/16	R1/4
NRC 5/16-R03	5/16	R3/8
NRC 3/8-R03	3/8	R3/8
NRC 3/8-R04	3/8	R1/2

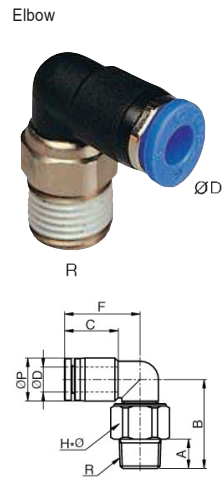
Tube (Inch) - Thread (NPT)		
MODEL	ØD	R
NRC 5/32-U10U	5/32	UNF10 * 32
NRC 5/32-N01U	5/32	NPT1/8
NRC 3/16-U10U	3/16	UNF10 * 32
NRC 3/16-N01U	3/16	NPT1/8
NRC 3/16-N02U	3/16	NPT1/4
NRC 1/4-U10U	1/4	UNF10 * 32
NRC 1/4-N01U	1/4	NPT1/8
NRC 1/4-N02U	1/4	NPT1/4
NRC 5/16-N01U	5/16	NPT1/8
NRC 5/16-N02U	5/16	NPT1/4
NRC 5/16-N03U	5/16	NPT3/8
NRC 3/8-N03U	3/8	NPT3/8
NRC 3/8-N04U	3/8	NPT1/2
NRC 1/2-N03U	1/2	NPT3/8
NRC 1/2-N04U	1/2	NPT1/2

NRC-G



MODEL [ØD-T]		
Tube (Metric) - Thread(G)		
MODEL	ØD	R
NRC 04-G01	4	G1/8
NRC 06-G01	6	G1/8
NRC 06-G02	6	G1/4
NRC 08-G01	8	G1/8
NRC 08-G02	8	G1/4
NRC 08-G03	8	G3/8
NRC 10-G03	8	G3/8
NRC 10-G04	10	G1/2
NRC 12-G03	12	G3/8
NRC 12-G04	12	G1/2

NRL

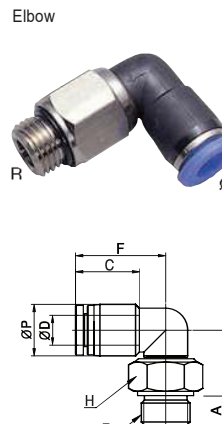


MODEL [ØD-T]		
Tube (Metric) - Thread(R)		
MODEL	ØD	R
NRL 04-M5	4	M5
NRL 04-M6	4	M6
NRL 04-01	4	R1/8
NRL 06-M5	6	M5
NRL 06-M6	6	M6
NRL 06-01	6	R1/8
NRL 06-02	6	R1/4
NRL 08-01	8	R1/8
NRL 08-02	8	R1/4
NRL 08-03	8	R3/8
NRL 10-03	10	R3/8
NRL 10-04	10	R1/2
NRL 12-03	10	R3/8
NRL 12-04	12	R1/2

Tube (Inch) - Thread(R)		
MODEL	ØD	R
NRL 1/4-R01	1/4	R1/8
NRL 1/4-R02	1/4	R1/4
NRL 5/16-R01	5/16	R1/8
NRL 5/16-R02	5/16	R1/4
NRL 5/16-R03	5/16	R3/8
NRL 3/8-R03	3/8	R3/8
NRL 3/8-R04	3/8	R1/2

Tube (Inch) - Thread (NPT)		
MODEL	ØD	R
NRL 5/32-U10U	5/32	UNF10 * 32
NRL 5/32-N01U	5/32	NPT1/8
NRL 3/16-N01U	3/16	NPT1/8
NRL 3/16-N02U	3/16	NPT1/4
NRL 1/4-U10U	1/4	UNF10 * 32
NRL 1/4-N01U	1/4	NPT1/8
NRL 1/4-N02U	1/4	NPT1/4
NRL 5/16-N01U	5/16	NPT1/8
NRL 5/16-N02U	5/16	NPT1/4
NRL 5/16-N03U	5/16	NPT3/8
NRL 3/8-N03U	3/8	NPT3/8
NRL 3/8-N04U	3/8	NPT1/2
NRL 1/2-N03U	1/2	NPT3/8
NRL 1/2-N04U	1/2	NPT1/2

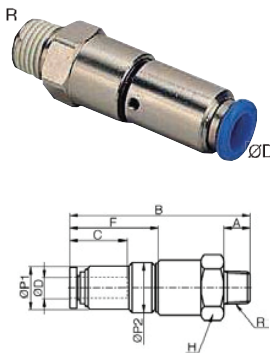
NRL-G



MODEL [ØD-T]		
Tube (Metric) - Thread(G)		
MODEL	ØD	R
NRL 04-G01	4	G1/8
NRL 06-G01	6	G1/8
NRL 06-G02	6	G1/4
NRL 08-G01	8	G1/8
NRL 08-G02	8	G1/4
NRL 08-G03	8	G3/8
NRL 10-G03	8	G3/8
NRL 10-G04	10	G1/2
NRL 12-G03	12	G3/8
NRL 12-G04	12	G1/2

NHRC

Straight



MODEL[ØD-T]

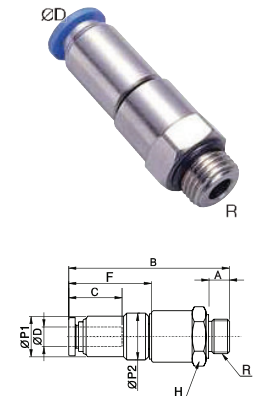
Tube (Metric) - Thread(R)			
MODEL	ØD	R	
NHRC 04-M5	4	M5	
NHRC 04-M6	4	M6	
NHRC 04-01	4	R1/8	
NHRC 06-01	6	R1/8	
NHRC 06-02	6	R1/4	
NHRC 08-01	8	R1/8	
NHRC 08-02	8	R1/4	
NHRC 10-03	10	R3/8	
NHRC 10-04	10	R1/2	
NHRC 12-03	10	R3/8	
NHRC 12-04	12	R1/2	

Tube (Inch) - Thread(R)			
MODEL	ØD	R	
NHRC 1/4-R01	1/4	R1/8	
NHRC 1/4-R02	1/4	R1/4	
NHRC 5/16-R01	5/16	R1/8	
NHRC 5/16-R02	5/16	R1/4	
NHRC 3/8-R03	3/8	R3/8	
NHRC 3/8-R04	3/8	R1/2	

Tube (Inch) - Thread (NPT)			
MODEL	ØD	R	
NHRC 5/32-U10U	5/32	UNF10 *32	
NHRC 5/32-N01U	5/32	NPT1/8	
NHRC 3/16-U10U	3/16	UNF10 *32	
NHRC 3/16-N01U	3/16	NPT1/8	
NHRC 3/16-N02U	3/16	NPT1/4	
NHRC 1/4-N01U	1/4	NPT1/8	
NHRC 1/4-N02U	1/4	NPT1/4	
NHRC 5/16-N01U	5/16	NPT1/8	
NHRC 5/16-N02U	5/16	NPT1/4	
NHRC 3/8-N03U	3/8	NPT3/8	
NHRC 3/8-N04U	3/8	NPT1/2	
NHRC 1/2-N03U	1/2	NPT3/8	
NHRC 1/2-N04U	1/2	NPT1/2	

NHRC-G

Straight

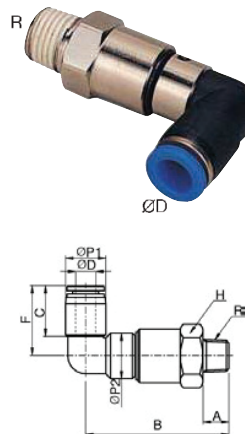


MODEL[ØD-T]

Tube (Metric) - Thread(G)			
MODEL	ØD	R	
NHRC 04-G01	4	G1/8	
NHRC 06-G01	6	G1/8	
NHRC 06-G02	6	G1/4	
NHRC 08-G01	8	G1/8	
NHRC 08-G02	8	G1/4	
NHRC 08-G03	8	G3/8	
NHRC 10-G03	8	G3/8	
NHRC 10-G04	10	G1/2	
NHRC 12-G03	12	G3/8	
NHRC 12-G04	12	G1/2	

NHRL

Elbow



MODEL[ØD-T]

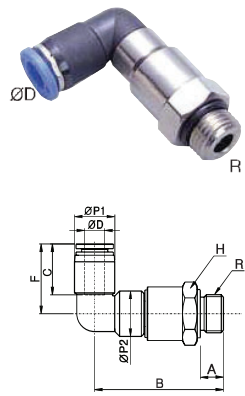
Tube (Metric) - Thread(R)			
MODEL	ØD	R	
NHRL 04-M5	4	M5	
NHRL 04-M6	4	M6	
NHRL 04-01	4	R1/8	
NHRL 06-01	6	R1/8	
NHRL 06-02	6	R1/4	
NHRL 08-01	8	R1/8	
NHRL 08-02	8	R1/4	
NHRL 10-03	10	R3/8	
NHRL 10-04	10	R1/2	
NHRL 12-03	10	R3/8	
NHRL 12-04	12	R1/2	

Tube (Inch) - Thread(R)			
MODEL	ØD	R	
NHRL 1/4-R01	1/4	R1/8	
NHRL 1/4-R02	1/4	R1/4	
NHRL 5/16-R01	5/16	R1/8	
NHRL 5/16-R02	5/16	R1/4	
NHRL 3/8-R03	3/8	R3/8	
NHRL 3/8-R04	3/8	R1/2	

Tube (Inch) - Thread (NPT)			
MODEL	ØD	R	
NHRL 5/32-U10U	5/32	UNF10 *32	
NHRL 5/32-N01U	5/32	NPT1/8	
NHRL 3/16-U10U	3/16	UNF10 *32	
NHRL 3/16-N01U	3/16	NPT1/8	
NHRL 3/16-N02U	3/16	NPT1/4	
NHRL 1/4-N01U	1/4	NPT1/8	
NHRL 1/4-N02U	1/4	NPT1/4	
NHRL 5/16-N01U	5/16	NPT1/8	
NHRL 5/16-N02U	5/16	NPT1/4	
NHRL 3/8-N03U	3/8	NPT3/8	
NHRL 3/8-N04U	3/8	NPT1/2	
NHRL 1/2-N03U	1/2	NPT3/8	
NHRL 1/2-N04U	1/2	NPT1/2	

NHRL-G

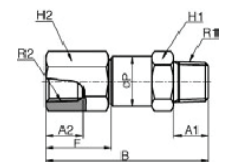
Elbow



MODEL[ØD-T]

Tube (Metric) - Thread(G)			
MODEL	ØD	R	
NHRL 04-G01	4	G1/8	
NHRL 06-G01	6	G1/8	
NHRL 06-G02	6	G1/4	
NHRL 08-G01	8	G1/8	
NHRL 08-G02	8	G1/4	
NHRL 10-G03	10	G3/8	
NHRL 10-G04	10	G1/2	
NHRL 12-G03	12	G3/8	
NHRL 12-G04	12	G1/2	

NHRF

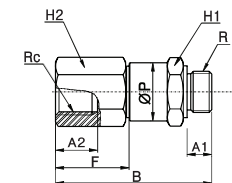


MODEL[ØD-T]

Tube (Metric) - Thread(R)		
MODEL	R1	R2
NHRF 01-01	R1/8	Rc1/8
NHRF 01-02	R1/8	Rc1/4
NHRF 02-01	R1/4	Rc1/8
NHRF 02-02	R1/4	Rc1/4
NHRF 03-03	R3/8	Rc3/8
NHRF 03-04	R3/8	Rc1/2
NHRF 04-03	R1/2	Rc3/8
NHRF 04-04	R1/2	Rc1/2

Tube (Inch) - Thread (NPT)		
MODEL	R1	R2
NHRF N01-N01	NPT1/8	NPT1/8
NHRF N01-N02	NPT1/8	NPT1/4
NHRF N02-N01	NPT1/4	NPT1/8
NHRF N02-N02	NPT1/4	NPT1/4
NHRF N03-N03	NPT3/8	NPT3/8
NHRF N03-N04	NPT3/8	NPT1/2
NHRF N04-N03	NPT1/2	NPT3/8
NHRF N04-N04	NPT1/2	NPT1/2

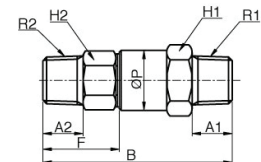
NHRF-G



MODEL[ØD-T]

Tube (Metric) - Thread(G)		
MODEL	R	Rc
NHRF G01-G01	G1/8	G1/8
NHRF G01-G02	G1/8	G1/4
NHRF G02-G01	G1/4	G1/8
NHRF G02-G02	G1/4	G1/4
NHRF G03-G03	G3/8	G3/8
NHRF G03-G04	G3/8	G1/2
NHRF G04-G03	G1/2	G3/8
NHRF G04-G04	G1/2	G1/2

NHRS

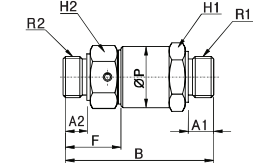


MODEL[ØD-T]

Tube (Metric) - Thread(R)		
MODEL	R1	R2
NHRS 01-01	R1/8	R1/8
NHRS 01-02	R1/8	R1/4
NHRS 02-01	R1/4	R1/8
NHRS 02-02	R1/4	R1/4
NHRS 03-03	R3/8	R3/8
NHRS 03-04	R3/8	R1/2
NHRS 04-03	R1/2	R3/8
NHRS 04-04	R1/2	R1/2

Tube (Inch) - Thread (NPT)		
MODEL	R1	R2
NHRS N01-N01	NPT1/8	NPT1/8
NHRS N01-N02	NPT1/8	NPT1/4
NHRS N02-N01	NPT1/4	NPT1/8
NHRS N02-N02	NPT1/4	NPT1/4
NHRS N03-N03	NPT3/8	NPT3/8
NHRS N03-N04	NPT3/8	NPT1/2
NHRS N04-N03	NPT1/2	NPT3/8
NHRS N04-N04	NPT1/2	NPT1/2

NHRS-G



MODEL[ØD-T]

Tube (Metric) - Thread(G)		
MODEL	R	Rc
NHRS G01-G01	G1/8	G1/8
NHRS G01-G02	G1/8	G1/4
NHRS G02-G01	G1/4	G1/8
NHRS G02-G02	G1/4	G1/4
NHRS G03-G03	G3/8	G3/8
NHRS G03-G04	G3/8	G1/2
NHRS G04-G03	G1/2	G3/8
NHRS G04-G04	G1/2	G1/2