# ROTARY JOINTS

## Application

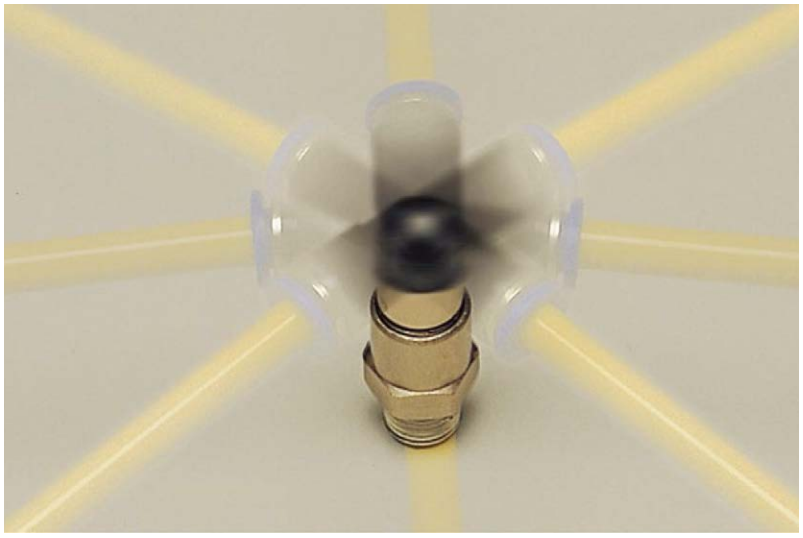
- Used for supplying compressed air at swiveling or swinging connections.
- Used for index tables and industrial robots.

## Feature

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

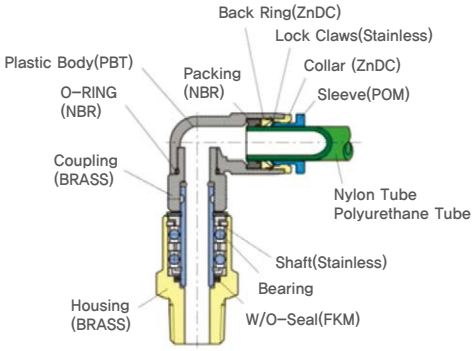
## Specification

| | | |
|---|---|---|
| Fluid | Air(No other gases or liquids) | |
| Working Pressure Range | 0~150PSI | 0~9Kgf/㎠(0~900kPa) |
| Negative Pressure | -29.50inHg | -750mmHg(10Torr) |
| Temperature Range | 32~140℉ | 0~60℃ |
| Applicable Tube Material | Polyurethane and Nylon | |

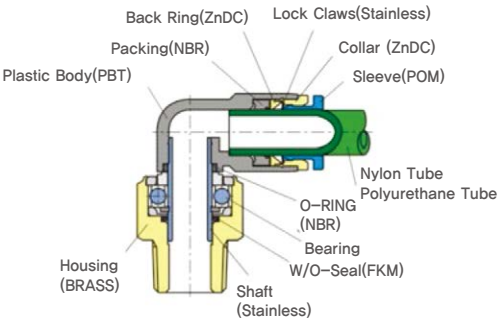


## Structural Diagram

▼High Rotary Joint




▼Rotary Joint




## Product Code System

NHRC 06 - G01

① ② ③

① Type

② Tube Dia(ØD)

| Code | 04 | 06 | 08 | 10 | 12 |
|---|---|---|---|---|---|
| Dia | Ø4 | Ø6 | Ø8 | Ø10 | Ø12 |

③ Thread Size(T)

| | Taper Pipe Thread | | | |
|---|---|---|---|---|
| Code | G01 | G02 | G03 | G04 |
| Size | G1/8 | G1/4 | G3/8 | G1/2 |

## Number of Rotations

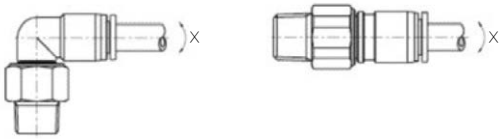
| Tube Dia | | | Ø4 | Ø6 | Ø8 | Ø10 | Ø12 |
|---|---|---|---|---|---|---|---|
| r.p.m | Low | NRC, NRL | 500 | 500 | 400 | 300 | 250 |
| | High | NHRC, NHRL, NHRS, NHRF | 1,500 | 1,200 | 1,200 | 1,000 | 1,000 |

**⚠ CAUTION**

- Be sure to read "Common Precautions"and "Using Precautions of Fitting Series" (P14) before using.

**⚠ WARNING**

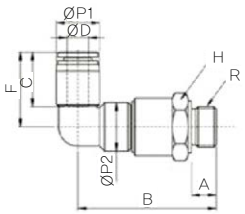
- When using at high speed, use PU tube.
- Nylon or other hard tube can cause overload of the rotation.



# NHRL-G

Elbow




MODEL [ØD-T] Tube (Metric)-Thread(G) (mm)

| CODE | MODEL | ØD | R | F | C | B | ØP1 | ØP2 | A | H | RPM | Orifice (Ømm) | W.G(g) | Q'ty/ Inbox |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 405020000431 | NHRL 04-G01 | 4 | G1/8 | 20.2 | 16 | 35.5 | 10 | 11 | 6 | 14 | 1500 | 3 | 23 | 50 |
| 405020000631 | NHRL 06-G01 | 6 | G1/8 | 22.9 | 17 | 42.2 | 12.4 | 14 | 6 | 17 | 1500 | 4 | 43.3 | 50 |
| 405020000632 | NHRL 06-G02 | 6 | G1/4 | 22.9 | 17 | 43.2 | 12.4 | 14 | 8 | 17 | 1200 | 4 | 57.2 | 50 |
| 405020000831 | NHRL 08-G01 | 8 | G1/8 | 25.9 | 18.5 | 42.2 | 14.4 | 14 | 6 | 17 | 1200 | 6 | 45.3 | 50 |
| 405020000832 | NHRL 08-G02 | 8 | G1/4 | 25.9 | 18.5 | 43.2 | 14.4 | 14 | 8 | 17 | 1200 | 6 | 50.3 | 50 |
| 405020001033 | NHRL 10-G03 | 10 | G3/8 | 29.8 | 21 | 53.3 | 17.6 | 20 | 10 | 24 | 1000 | 7.5 | 105.9 | 20 |
| 405020001034 | NHRL 10-G04 | 10 | G1/2 | 29.8 | 21 | 55.3 | 17.6 | 20 | 12 | 24 | 1000 | 7.5 | 121.5 | 20 |
| 405020001233 | NHRL 12-G03 | 12 | G3/8 | 33.7 | 22.5 | 55 | 21 | 20 | 10 | 24 | 1000 | 9 | 110.2 | 20 |
| 405020001234 | NHRL 12-G04 | 12 | G1/2 | 33.7 | 22.5 | 57 | 21 | 20 | 12 | 24 | 1000 | 9 | 125.8 | 20 |