



# DAJA

大甲永和








DAJA-UHP-12-2.0









## lok-DJ<sup>®</sup> Compression Fittings





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## Introduction

**lok-DJ**<sup>®</sup> Compression Fittings are the products developed and manufactured by **Tachia Yung Ho Machine Industry Co., Ltd**, carrying quality brand name “**DAJA**”. It is a reliable and leakage free conjunction system offering quick connection, repeatable use of tubing components, variety of selection of the connection type for converting one system to another, high quality and reliable sealing performance.

### **Specific name as below is introduced and explained for your reference.**

**Manufacturer** : Tachia Yung Ho Machine Industry Co., Ltd. (Taiwan)

**DAJA**<sup>®</sup> : Brand name of the product manufactured by Ultra High Purity Components Business Division (UHP)

**lok-DJ**<sup>®</sup> : Instrumentation fittings product, promoted by **DAJA** brand, manufactured by **Tachia Yung Ho Machine Industry Co., Ltd.**

### **Flexibility In Connection:**

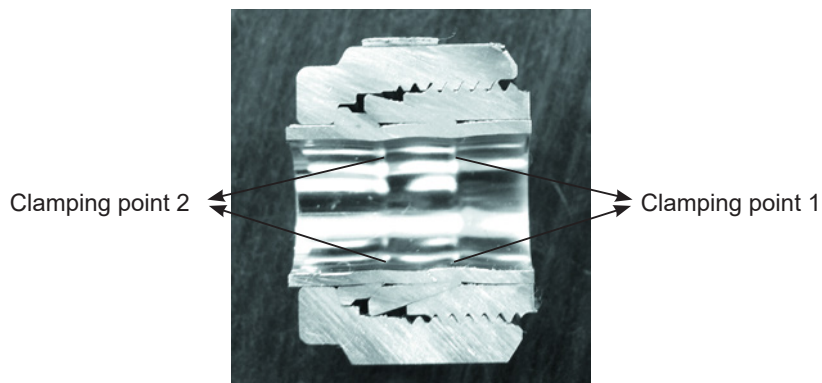
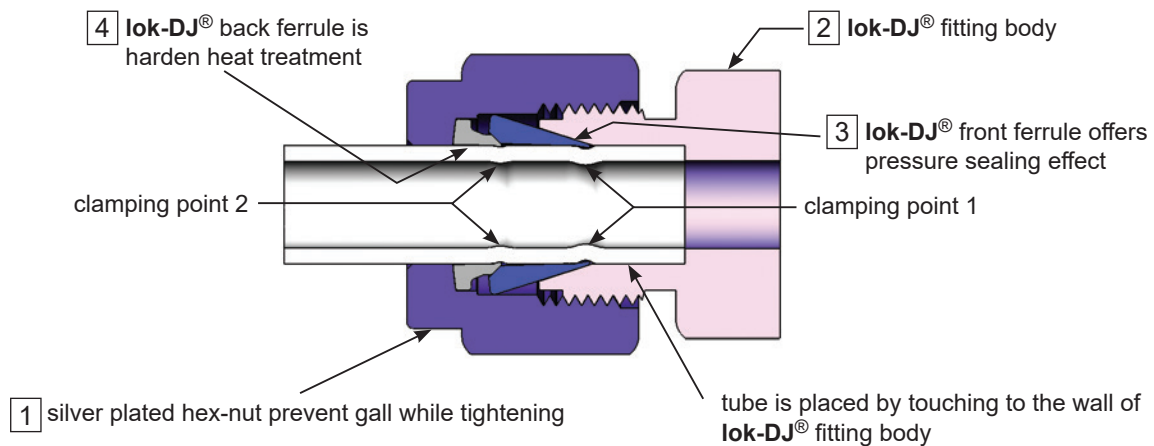
**lok-DJ**<sup>®</sup> Compression Fittings offer a variety of selection for converting one piping system to another as below.

- “lok type union” to “lok type union” conjunction
- “lok type union” to thread type conjunction
- “lok type union” to butt-welding type conjunction (upon request)
- “lok type union” to ISO-CF flange (upon request)
- “lok type union” to Face Seal system fittings (upon request)



## Technical Specifications

The **lok-DJ**<sup>®</sup> Compression Fittings is designed having four precision machined parts offering a leak-proof and quick on site set-up performance for meeting the requirement in the application of high pressure vacuum and vibration working environment.



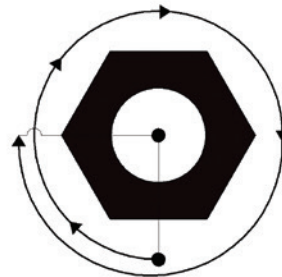
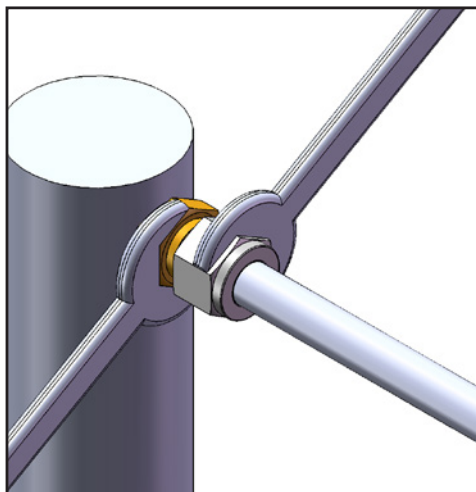
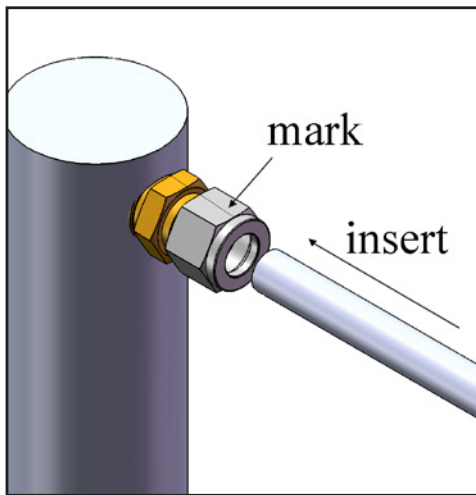
The **lok-DJ**<sup>®</sup> Compression Fittings consist four precision machined parts as below.

These two-ferrules are designed to perform clamping and sealing by a compression effect on the pipe with main body of the **lok-DJ**<sup>®</sup>. It is named “two ferrules type” or “compression ” instrumentation fittings.

- (1)SS 316 silver plated hex nut
- (2)SS 316 **lok-DJ**<sup>®</sup> fitting body
- (3)SS 316 front ferrule
- (4)SS 316 back ferrule with harden treatment

## Assembly lok-DJ®

1. **lok-DJ®** Compression Fittings are manufactured and ready for immediate use. To insert the straight tube into **lok-DJ®** fitting body until it has contacted the bottom of **lok-DJ®** fitting body.
2. To tighten the **lok-DJ®** fitting body through two nuts by finger firstly.
3. It is suggested to mark a reference line on nut and **lok-DJ®** fitting body for helping counting the number of the turns.  
Then, one spanner can be used to hold **lok-DJ®** hex nut on fitting body in position against another spanner holding on free-hex nut.
4. The second spanner can turn free-hex nut additionally 1-1/4 turns to tighten whole set of **lok-DJ®** fitting.



For 1/4" to 1", 1-1/4 turns from finger tight is necessary.

## Remake lok-DJ®

1. **lok-DJ®** fitting can be disconnected and re-built repeatedly for several times without loss of its leaktight performance. Before disassembly, a reference line mark can be made across of the Nut and the Fitting Body.
2. After completion of disassembly of the **lok-DJ®** fittings, the Nut and two Ferrules are seated on tubing.
3. To re-make the assembly, it can pre-assemble the Nut with the Fitting Body by fingers. Then, to use wrenches to tighten the Nut and Fitting Body to the position where line marks meet to each other.
4. A slightly rise in torque can be applied on wrenches to tighten the Nut and Fitting Body.

## Tubing Selection

Selecting the tubing properly is necessary when you order the tubing for **lok-DJ®** tube fitting. The following factors should be considered.

### Surface

- Tubing with any depression, scratch, raised portion, or other surface defect will be difficult to seal, and tubes with smooth and clean surfaces should be used.

### Hardness

- In general, it is recommended that tubing must be fully annealed and hardness not to exceed HV 200.

## Primary Material

**lok-DJ®** Compression Fittings uses Type 316 stainless steel carrying international standard code of ASME-SA-479 and ASME-SA-182. **lok-DJ®** Compression Instrumentation Fittings are manufactured in accordance to ISO9001-2015 quality control system. All products are documented with chemical composition, mechanical property and heat number for quality traceable availability.

## Typical Raw Material Specifications

| Basic Fitting Material        | Bar Stock  | Forging                                      | Compatible Tubing Specification   |
|-------------------------------|--|--|---|
| Stainless Steel<br>(Type 316) | ASME-SA-479,<br>Type 316-SS<br>BS970 316-S31<br>Din 4401 | ASME-SA-182 316<br>BS970 316-S31<br>DIN 4401 | ASME-SA-213<br>ASTM-A-213<br>ASTM-A-249<br>ASTM-A-269<br>ASTM-A-270<br>MIL T-8504<br>MIL T-8506 |



## How to Order lok-DJ® Compression Fittings

Example: RU-6-4-6B(For Lok to Lok Unions)

|    |  |
|----|--|
| RU | Reducing Union                           |
| 6  | Fractional tube end dimension is 3/8" OD |
| 4  | Fractional tube end dimension is 1/4" OD |
| 6  | 316 Stainless Steel                      |

### Demonstration of Part Number

| Product Category     | Description             | Product Code | DAJA Part NO. |
|----------------------|-------------------------|--------------|---------------|
| Lok to Lok Unions    | Union                   | UU           | UU-4-6        |
|                      | Reducing Union          | RU           | RU-6-4-6      |
|                      | Bulkhead Union          | BHU          | BHU-4-6       |
|                      | Union Elbow             | UE           | UE-4-6        |
|                      | Reducing Elbow          | RE           | RE-6-4-6      |
|                      | Union Tee               | UT           | UT-4-6        |
|                      | Reducing Union Tee      | RUT          | RUT-6-6-4-6   |
| Lok to Male Thread   | Male Connector          | MC           | MC-6-4K-6     |
|                      | Bulkhead Male Connector | BHMC         | BHMC-6-4N-6   |
|                      | Male Elbow              | ME           | ME-6-4N-6     |
| Lok to Female Thread | Female Connector        | FC           | FC-6-4N -6    |
| Components           | Nut                     | NT           | NT-4-6        |
|                      | Front Ferrule           | FF           | FF-4-6        |
|                      | Back Ferrule            | BF           | BF-4-6        |
|                      | Ferrule SET Package     | FS           | FS-4-6        |
|                      | Plug                    | PL           | PL-4-6        |
|                      | Cap Assembly            | CP           | CP-4-6        |

### Material Designation

| Designator | Material            | Specification  |
|------------|---------------------|--|
| 6          | 316 Stainless Steel | Bar stock meets the standard of ASTM A276, ASME SA479, EN 1.4401.<br>Forged body meets the standard of ASTM A182, ASME SA182, EN 1.4401. |

**Explanation :**

**Size :** Tube and pipe thread sizes are designed by the number of sixteenths of an inch (i.e. 3/8" tube = 6/16" = 6) ; (i.e. 1/4" pipe thread = 4/16" =4).

**Type :** A combination of letters are used to designate the type of fittings. (i.e. UT = Union Tee, FC = Female Connector, etc.) See the visual index for fittings types.

**Special Fittings :** If there is any question as to the fitting desired, particularly for special fitting configurations, it is suggested that a customer print be submitted with the fitting request for quote.

**lok-DJ®** Compression Fittings can be ordered by part number listed in this catalog.

**Pressure Rating Designation**

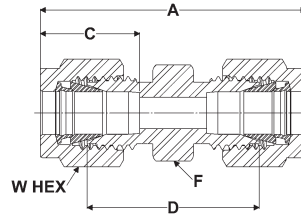
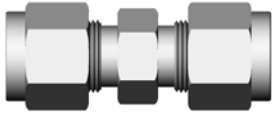
All technical data shown on this catalogue is for the temperature ranging from -20°F-100°F (-25°C to 36°C).

**Lok to Lok Unions**

| Product Category  | Description        | Code               | DAJA Part NO.      |                              |
|-------------------|--------------------|--------------------|--------------------|------------------------------|
| Lok to Lok Unions | Union              | UU                 | UU-4-6             |                              |
|                   | Reducing Union     | RU                 | RU-6-4-6           |                              |
|                   | Bulkhead Union     | BHU                | BHU-4-6            |                              |
|                   | Union Elbow        | UE                 | UE-4-6             |                              |
|                   | Reducing Elbow     | RE                 | RE-6-4-6           |                              |
|                   | Union Tee          | UT                 | UT-4-6             |                              |
|                   | Reducing Union Tee | RUT                | RUT-6-6-4-6        |                              |
|                   | <b>Tube Size 1</b> | <b>Tube Size 2</b> | <b>Tube Size 3</b> | <b>Material</b><br><br>6=316 |
|                   | <b>(in.)</b>       | <b>(in.)</b>       | <b>(in.)</b>       |                              |
|                   | 4=1/4"             | 4=1/4"             | 4=1/4"             |                              |
| 6=3/8"            | 6=3/8"             | 6=3/8"             |                    |                              |
| 8=1/2"            | 8=1/2"             | 8=1/2"             |                    |                              |
| 12=3/4"           | 12=3/4"            | 12=3/4"            |                    |                              |
| 16= 1"            | 16= 1"             | 16= 1"             |                    |                              |

## (UU) Union

•For fractional tube

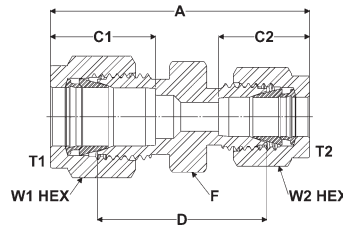
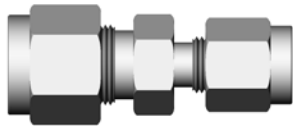


| DAJA Part NO.   | Tube O.D. | Dimension |      |      |       |       |
|-----------------|-----------|-----------|------|------|-------|-------|
|                 |           | A         | C    | D    | F     | W HEX |
| Dimensions, mm. |           |           |      |      |       |       |
| UU-4            | 1/4       | 40.4      | 15.1 | 26.2 | 12.7  | 14    |
| UU-6            | 3/8       | 45.8      | 17.5 | 30.2 | 15.88 | 17.46 |
| UU-8            | 1/2       | 50.6      | 22.6 | 31   | 20.6  | 22    |
| UU-12           | 3/4       | 54.4      | 24.5 | 34   | 27    | 28.6  |
| UU-16           | 1         | 62.8      | 30.7 | 40   | 35    | 38.1  |

Note: (1) A and C dimensions are typical finger-tight.  
 (2) Dimensions for reference only, subject to change.

## (RU) Reducing Union

•For fractional tube



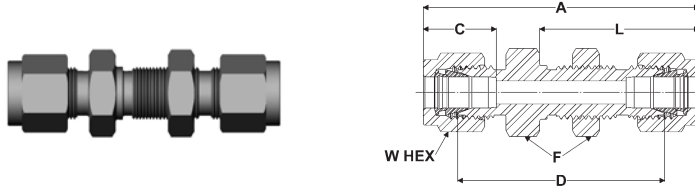
| DAJA Part NO.   | T <sub>1</sub> Tube O.D. | T <sub>2</sub> Tube O.D. | Dimension |                |                |      |       |        |        |
|-----------------|--------------------------|--------------------------|-----------|----------------|----------------|------|-------|--------|--------|
|                 |                          |                          | A         | C <sub>1</sub> | C <sub>2</sub> | D    | F     | W1 HEX | W2 HEX |
| Dimensions, mm. |                          |                          |           |                |                |      |       |        |        |
| RU-6-4          | 3/8                      | 1/4                      | 43.1      | 17.5           | 15.1           | 28.2 | 15.88 | 17.46  | 14     |
| RU-8-4          | 1/2                      | 1/4                      | 46.3      | 22.6           | 15.1           | 29.4 | 20.6  | 22     | 14     |
| RU-8-6          | 1/2                      | 3/8                      | 49        | 22.6           | 17.5           | 31.4 | 20.6  | 22     | 17.46  |
| RU-12-4         | 3/4                      | 1/4                      | 48.9      | 24.5           | 15.1           | 31.6 | 27    | 28.6   | 14     |
| RU-12-6         | 3/4                      | 3/8                      | 51.6      | 24.5           | 17.5           | 33.6 | 27    | 28.6   | 17.46  |
| RU-12-8         | 3/4                      | 1/2                      | 54        | 24.5           | 22.6           | 34   | 27    | 28.6   | 22     |
| RU-16-8         | 1                        | 1/2                      | 59.2      | 30.7           | 22.6           | 38   | 35    | 38.1   | 22     |
| RU-16-12        | 1                        | 3/4                      | 59.6      | 30.7           | 24.5           | 38   | 35    | 38.1   | 28.6   |

Note: (1) A, C<sub>1</sub> and C<sub>2</sub> dimensions are typical finger-tight.  
 (2) Dimensions for reference only, subject to change.



## (BHU) Bulkhead Union

•For fractional tube

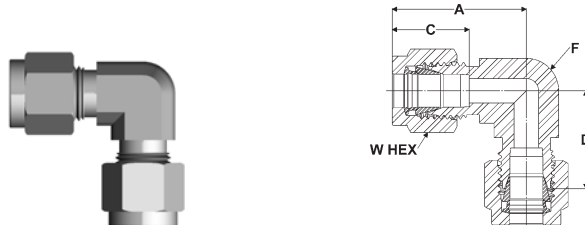


| DAJA Part NO.   | Tube O.D. | Dimension |      |      |      |       |       |                        |                  |
|-----------------|-----------|-----------|------|------|------|-------|-------|------------------------|------------------|
|                 |           | A         | C    | D    | L    | F     | W HEX | B'head Hole Drill Size | Max B'head Thick |
| Dimensions, mm. |           |           |      |      |      |       |       |                        |                  |
| BHU-4           | 1/4       | 57.1      | 15.1 | 42.9 | 33   | 15.88 | 14    | 11.5                   | 10.2             |
| BHU-6           | 3/8       | 63.4      | 17.5 | 47.8 | 37   | 19.05 | 17.46 | 14.7                   | 11.2             |
| BHU-8           | 1/2       | 70.4      | 22.6 | 50.8 | 41.6 | 23.81 | 22    | 19.45                  | 12.7             |
| BHU-12          | 3/4       | 79        | 24.4 | 59.7 | 49   | 30    | 28.6  | 26                     | 18               |
| BHU-16          | 1         | 96        | 31.2 | 71.4 | 57.5 | 41    | 38.1  | 34                     | 22               |

Note: (1) For reducer sizes call out short end first.  
 (2) A, C and L dimensions are typical finger-tight.  
 (3) Dimensions for reference only, subject to change.

## (UE) Union Elbow

•For fractional tube

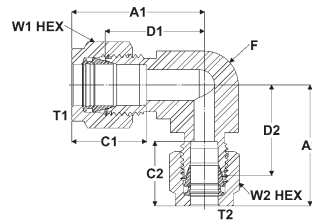
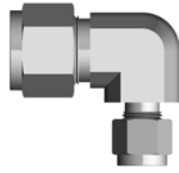


| DAJA Part NO.   | Tube O.D. | Dimension |      |      |      |       |
|-----------------|-----------|-----------|------|------|------|-------|
|                 |           | A         | C    | D    | F    | W HEX |
| Dimensions, mm. |           |           |      |      |      |       |
| UE-4            | 1/4       | 26.3      | 15.1 | 19.2 | 13.3 | 14    |
| UE-6            | 3/8       | 31        | 17.5 | 23.2 | 15.9 | 17.46 |
| UE-8            | 1/2       | 36        | 22.6 | 26.2 | 20.9 | 22    |
| UE-12           | 3/4       | 40        | 24.4 | 32   | 27   | 28.6  |
| UE-16           | 1         | 49        | 31.2 | 36.8 | 34   | 38.1  |

Note: (1) A and C dimension is typical finger-tight.  
 (2) Dimensions for reference only, subject to change.

### (RE) Reducing Elbow

•For fractional tube

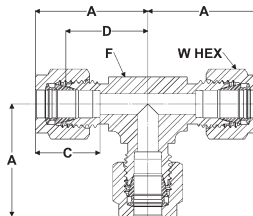


| DAJA Part NO.   | T <sub>1</sub> Tube O.D. | T <sub>2</sub> Tube O.D. | Dimension      |                |                |                |                |                |      |                    |                    |
|-----------------|--------------------------|--------------------------|----------------|----------------|----------------|----------------|----------------|----------------|------|--------------------|--------------------|
|                 |                          |                          | A <sub>1</sub> | A <sub>2</sub> | C <sub>1</sub> | C <sub>2</sub> | D <sub>1</sub> | D <sub>2</sub> | F    | W <sub>1</sub> HEX | W <sub>2</sub> HEX |
| Dimensions, mm. |                          |                          |                |                |                |                |                |                |      |                    |                    |
| RE-6-4          | 3/8                      | 1/4                      | 31             | 28.3           | 17.5           | 15.1           | 23.2           | 21.2           | 15.9 | 17.46              | 14                 |
| RE-8-4          | 1/2                      | 1/4                      | 36             | 31.3           | 22.6           | 15.1           | 26.2           | 24.2           | 20.9 | 22                 | 14                 |
| RE-8-6          | 1/2                      | 3/8                      | 36             | 34             | 22.6           | 17.5           | 26.2           | 26.2           | 20.9 | 22                 | 17.46              |
| RE-12-4         | 3/4                      | 1/4                      | 40             | 36.4           | 24.4           | 15.2           | 32             | 29.2           | 27   | 28.6               | 14.28              |
| RE-12-6         | 3/4                      | 3/8                      | 40             | 38.8           | 24.4           | 16.8           | 32             | 31.1           | 27   | 28.6               | 17.46              |
| RE-12-8         | 3/4                      | 1/2                      | 40             | 40.5           | 24.4           | 22.9           | 32             | 30.5           | 27   | 28.6               | 22                 |
| RE-16-8         | 1                        | 1/2                      | 49             | 44.7           | 31.2           | 22.9           | 36.8           | 35.2           | 34   | 38.1               | 22                 |
| RE-16-12        | 1                        | 3/4                      | 49             | 46             | 31.2           | 24.4           | 36.8           | 35.8           | 34   | 38.1               | 28.6               |

Note: (1) A<sub>1</sub>, A<sub>2</sub>, C<sub>1</sub> and C<sub>2</sub> dimension is typical finger-tight.  
 (2) Dimensions for reference only, subject to change.

### (UT) Union Tee

•For fractional tube

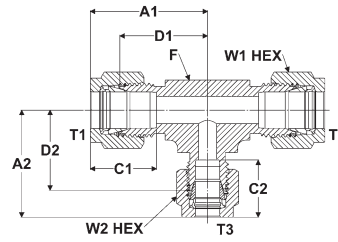
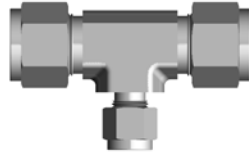


| DAJA Part NO.   | Tube O.D. | Dimension |      |      |       |       |
|-----------------|-----------|-----------|------|------|-------|-------|
|                 |           | A         | C    | D    | F     | W HEX |
| Dimensions, mm. |           |           |      |      |       |       |
| UT-4            | 1/4       | 26.3      | 15.1 | 19.2 | 13.2  | 14    |
| UT-6            | 3/8       | 31        | 17.5 | 23.2 | 15.95 | 17.46 |
| UT-8            | 1/2       | 36        | 22.6 | 26.2 | 20.57 | 22    |
| UT-12           | 3/4       | 40        | 24.4 | 32   | 27    | 28.6  |
| UT-16           | 1         | 49        | 31.2 | 36.8 | 34    | 38.1  |

Note: (1) A and C dimensions are typical finger-tight.  
 (2) Dimensions for reference only, subject to change.

**(RUT) Reducing Union Tee**

•For fractional tube



| DAJA Part NO.   | T <sub>1</sub> Tube O.D. | T <sub>2</sub> Tube O.D. | T <sub>3</sub> Tube O.D. | Dimension      |                |                |                |                |                |       |                    |                    |
|-----------------|--------------------------|--------------------------|--------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|--------------------|--------------------|
|                 |                          |                          |                          | A <sub>1</sub> | A <sub>2</sub> | C <sub>1</sub> | C <sub>2</sub> | D <sub>1</sub> | D <sub>2</sub> | F     | W <sub>1</sub> HEX | W <sub>2</sub> HEX |
| Dimensions, mm. |                          |                          |                          |                |                |                |                |                |                |       |                    |                    |
| RUT-6-6-4       | 3/8                      | 3/8                      | 1/4                      | 31             | 28.3           | 17.5           | 15.1           | 23.2           | 21.2           | 16.05 | 17.46              | 14                 |
| RUT-8-8-4       | 1/2                      | 1/2                      | 1/4                      | 36             | 31.3           | 22.6           | 15.1           | 26.2           | 24.2           | 20.76 | 22                 | 17.46              |
| RUT-8-8-6       | 1/2                      | 1/2                      | 3/8                      | 36             | 34             | 22.6           | 17.5           | 26.2           | 26.2           | 20.76 | 22                 | 14                 |
| RUT-12-12-4     | 3/4                      | 3/4                      | 1/4                      | 40             | 36.4           | 24.4           | 15.2           | 32             | 29.2           | 27    | 28.6               | 14.28              |
| RUT-12-12-6     | 3/4                      | 3/4                      | 3/8                      | 40             | 38.8           | 24.4           | 16.8           | 32             | 31.1           | 27    | 28.6               | 17.46              |
| RUT-12-12-8     | 3/4                      | 3/4                      | 1/2                      | 40             | 40.5           | 24.4           | 22.9           | 32             | 30.5           | 27    | 28.6               | 22                 |
| RUT-16-16-4     | 1                        | 1                        | 1/4                      | 49             | 40.5           | 31.2           | 15.2           | 36.8           | 33.1           | 34    | 38.1               | 14.28              |
| RUT-16-16-6     | 1                        | 1                        | 3/8                      | 49             | 42.8           | 31.2           | 16.8           | 36.8           | 35             | 34    | 38.1               | 17.46              |
| RUT-16-16-8     | 1                        | 1                        | 1/2                      | 49             | 44.7           | 31.2           | 22.9           | 36.8           | 35.2           | 34    | 38.1               | 22                 |
| RUT-16-16-12    | 1                        | 1                        | 3/4                      | 49             | 46             | 31.2           | 24.4           | 36.8           | 35.8           | 34    | 38.1               | 28.6               |

Note: (1) A<sub>1</sub>, A<sub>2</sub>, C<sub>1</sub> and C<sub>2</sub> dimensions are typical finger-tight.  
 (2) Dimensions for reference only, subject to change.

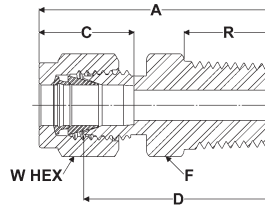
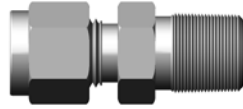


## Lok to Male Thread

| Product Category   | Description             | Code                  | DAJA Part NO.        |          |
|--------------------|-------------------------|-----------------------|----------------------|----------|
| Lok to Male Thread | Male Connector          | MC                    | MC-6-4N-6            |          |
|                    | Bulkhead Male Connector | BHMC                  | BHMC-6-4N-6          |          |
|                    | Male Elbow              | ME                    | ME-6-4N-6            |          |
|                    | Tube Size 1             | Thread Spec.2         |                      | Material |
|                    | (in.)                   | NPT thread Size (in.) | PT thread Size (in.) |          |
|                    | 4=1/4"                  | 2N=1/8"               | 2K=1/8"              | 6=316    |
|                    | 6=3/8"                  | 4N=1/4"               | 4K=1/4"              |          |
|                    | 8=1/2"                  | 6N=3/8"               | 6K=3/8"              |          |
|                    | 12=3/4"                 | 8N=1/2"               | 8K=1/2"              |          |
|                    | 16= 1"                  | 12N=3/4"              | 12K=3/4"             |          |
|                    | 16N= 1"                 | 16K= 1"               |                      |          |

### (MC) Male Connector

- For fractional tube
- NPT thread

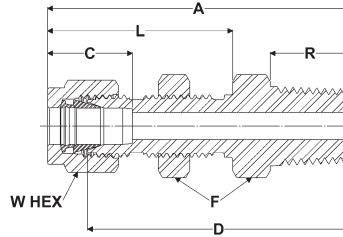
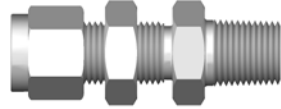


| DAJA Part NO.   | Tube O.D. | NPT Thread | Dimension |      |      |      |       |       |
|-----------------|-----------|------------|-----------|------|------|------|-------|-------|
|                 |           |            | A         | C    | D    | R    | F     | W HEX |
| Dimensions, mm. |           |            |           |      |      |      |       |       |
| MC-4-2N         | 1/4       | 1/8        | 33        | 15.2 | 25.4 | 10   | 12    | 14.28 |
| MC-4-4N         | 1/4       | 1/4        | 37.3      | 15.1 | 30.2 | 14.2 | 14    | 14    |
| MC-4-6N         | 1/4       | 3/8        | 37.7      | 15.1 | 30.6 | 14.2 | 17.46 | 14    |
| MC-4-8N         | 1/4       | 1/2        | 44.1      | 15.1 | 37   | 19   | 22    | 14    |
| MC-4-12N        | 1/4       | 3/4        | 45.5      | 15.1 | 38.4 | 19   | 27    | 14    |
| MC-6-2N         | 3/8       | 1/8        | 35.5      | 16.8 | 28   | 10   | 16    | 17.46 |
| MC-6-4N         | 3/8       | 1/4        | 40.4      | 17.5 | 32.6 | 14.2 | 15.88 | 17.46 |
| MC-6-6N         | 3/8       | 3/8        | 40.4      | 17.5 | 32.6 | 14.2 | 17.46 | 17.46 |
| MC-6-8N         | 3/8       | 1/2        | 46.6      | 17.5 | 38.8 | 19   | 22    | 17.46 |
| MC-6-12N        | 3/8       | 3/4        | 48.2      | 17.5 | 40.4 | 19   | 27    | 17.46 |
| MC-8-2N         | 1/2       | 1/8        | 39        | 22.9 | 28.7 | 10   | 20    | 22    |
| MC-8-4N         | 1/2       | 1/4        | 43.4      | 22.6 | 33.6 | 14.2 | 20.6  | 22    |
| MC-8-6N         | 1/2       | 3/8        | 43.4      | 22.6 | 33.6 | 14.2 | 20.6  | 22    |
| MC-8-8N         | 1/2       | 1/2        | 47.9      | 22.6 | 38.1 | 19   | 22    | 22    |
| MC-8-12N        | 1/2       | 3/4        | 50.4      | 22.6 | 40.6 | 19   | 27    | 22    |
| MC-8-16N        | 1/2       | 1          | 57.2      | 22.6 | 47.4 | 24   | 35    | 22    |
| MC-12-8N        | 3/4       | 1/2        | 50.8      | 24.5 | 40.6 | 19   | 27    | 28.6  |
| MC-12-12N       | 3/4       | 3/4        | 48.3      | 24.5 | 38.1 | 19   | 27    | 28.6  |
| MC-12-16N       | 3/4       | 1          | 57.6      | 24.5 | 47.4 | 24   | 35    | 28.6  |
| MC-16-8N        | 1         | 1/2        | 56.4      | 30.7 | 45   | 19   | 35    | 38.1  |
| MC-16-12N       | 1         | 3/4        | 56.4      | 30.7 | 45   | 19   | 35    | 38.1  |
| MC-16-16N       | 1         | 1          | 61.4      | 30.7 | 50   | 24   | 35    | 38.1  |

- Note: (1) A and C dimensions are typical finger-tight.  
 (2) PT and BSPT thread are available upon request.  
 (3) Dimensions for reference only, subject to change.

### (BHMC) Bulkhead Male Connector

- For fractional tube
- NPT thread



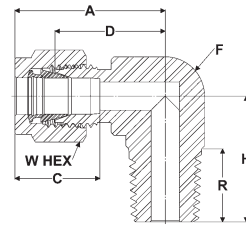
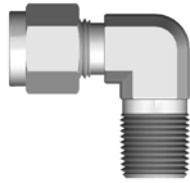
| DAJA Part NO.   | Tube O.D. | NPT Thread | Dimension |      |      |      |      |       |       |
|-----------------|-----------|------------|-----------|------|------|------|------|-------|-------|
|                 |           |            | A         | C    | D    | L    | R    | F     | W HEX |
| Dimensions, mm. |           |            |           |      |      |      |      |       |       |
| BHMC-4-2N       | 1/4       | 1/8        | 49.5      | 15.2 | 42.2 | 34   | 10   | 16    | 14.28 |
| BHMC-4-4N       | 1/4       | 1/4        | 53.9      | 15.1 | 46.8 | 33   | 14.2 | 15.88 | 14    |
| BHMC-4-6N       | 1/4       | 3/8        | 54.7      | 15.1 | 47.6 | 33   | 14.2 | 17.46 | 14    |
| BHMC-4-8N       | 1/4       | 1/2        | 60        | 15.1 | 52.9 | 33   | 19   | 22    | 14    |
| BHMC-6-2N       | 3/8       | 1/8        | 53.8      | 17.5 | 46   | 37   | 10   | 19.05 | 17.46 |
| BHMC-6-4N       | 3/8       | 1/4        | 58        | 17.5 | 50.2 | 37   | 14.2 | 19.05 | 17.46 |
| BHMC-6-6N       | 3/8       | 3/8        | 58        | 17.5 | 50.2 | 37   | 14.2 | 19.05 | 17.46 |
| BHMC-6-8N       | 3/8       | 1/2        | 64.2      | 17.5 | 56.4 | 37   | 19   | 22    | 17.46 |
| BHMC-8-4N       | 1/2       | 1/4        | 63        | 22.6 | 53.2 | 41.6 | 14.2 | 23.81 | 22    |
| BHMC-8-6N       | 1/2       | 3/8        | 63        | 22.6 | 53.2 | 41.6 | 14.2 | 23.81 | 22    |
| BHMC-8-8N       | 1/2       | 1/2        | 68.5      | 22.6 | 58.7 | 41.6 | 19   | 23.81 | 22    |
| BHMC-8-12N      | 1/2       | 3/4        | 68.8      | 22.6 | 59   | 41.6 | 19   | 28.6  | 22    |
| BHMC-12-12N     | 3/4       | 3/4        | 76.3      | 24.5 | 66.1 | 47.6 | 19   | 30.2  | 28.6  |
| BHMC-16-16N     | 1         | 1          | 92.5      | 30.7 | 81.1 | 56.6 | 24   | 41.3  | 38.1  |

Note: (1) A and C dimensions are typical finger-tight.  
 (2) PT and BSPT thread are available upon request.  
 (3) Dimensions for reference only, subject to change.



**(ME) Male Elbow**

- For fractional tube
- NPT thread



| DAJA Part NO.   | Tube O.D. | NPT Thread | Dimension |      |      |      |    |    |       |
|-----------------|-----------|------------|-----------|------|------|------|----|----|-------|
|                 |           |            | A         | C    | D    | H    | R  | F  | W HEX |
| Dimensions, mm. |           |            |           |      |      |      |    |    |       |
| ME-4-2N         | 1/4       | 1/8        | 27        | 15.2 | 19.6 | 18.8 | 10 | 12 | 14.28 |
| ME-4-4N         | 1/4       | 1/4        | 27        | 15.2 | 19.6 | 22.4 | 13 | 14 | 14.28 |
| ME-4-6N         | 1/4       | 3/8        | 30        | 15.2 | 22.4 | 26.2 | 14 | 17 | 14.28 |
| ME-4-8N         | 1/4       | 1/2        | 32        | 15.2 | 24.4 | 31   | 17 | 22 | 14.28 |
| ME-6-2N         | 3/8       | 1/8        | 30.5      | 16.8 | 23.1 | 20.8 | 10 | 14 | 17.46 |
| ME-6-4N         | 3/8       | 1/4        | 30.5      | 16.8 | 23.1 | 24.4 | 13 | 14 | 17.46 |
| ME-6-6N         | 3/8       | 3/8        | 31.5      | 16.8 | 23.9 | 26.2 | 14 | 17 | 17.46 |
| ME-6-8N         | 3/8       | 1/2        | 33.5      | 16.8 | 25.9 | 31   | 17 | 22 | 17.46 |
| ME-6-2N         | 1/2       | 1/8        | 37        | 22.9 | 27   | 25   | 10 | 20 | 22    |
| ME-8-4N         | 1/2       | 1/4        | 36.5      | 22.9 | 27.5 | 27.2 | 13 | 20 | 22    |
| ME-8-6N         | 1/2       | 3/8        | 36.5      | 22.9 | 27.5 | 28.2 | 14 | 20 | 22    |
| ME-8-8N         | 1/2       | 1/2        | 36.5      | 22.9 | 27.5 | 31   | 17 | 22 | 22    |
| ME-8-12N        | 1/2       | 3/4        | 40        | 22.9 | 29.7 | 36.8 | 19 | 27 | 22    |
| ME-8-16N        | 1/2       | 1          | 50        | 22.9 | 39.9 | 45.5 | 22 | 34 | 22    |
| ME-12-6N        | 3/4       | 3/8        | 40        | 24.4 | 29.6 | 31.6 | 14 | 27 | 28.6  |
| ME-12-8N        | 3/4       | 1/2        | 40        | 24.4 | 32   | 34.8 | 17 | 27 | 28.6  |
| ME-12-12N       | 3/4       | 3/4        | 40        | 24.4 | 32   | 36.8 | 19 | 27 | 28.6  |
| ME-12-16N       | 3/4       | 1          | 51        | 24.4 | 39.9 | 45.5 | 22 | 34 | 28.6  |
| ME-16-8N        | 1         | 1/2        | 53        | 31.2 | 40.5 | 43.5 | 17 | 34 | 38.1  |
| ME-16-12N       | 1         | 3/4        | 49        | 31.2 | 36.8 | 41.7 | 19 | 34 | 38.1  |
| ME-16-16N       | 1         | 1          | 49        | 31.2 | 36.8 | 44.5 | 22 | 34 | 38.1  |

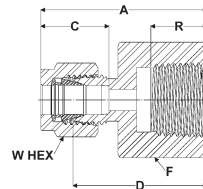
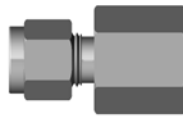
Note: (1) A and C dimensions is typical finger-tight.  
 (2) Dimensions for reference only, subject to change.

# Lok to Female Thread

| Product Category     | Description      | Code                  | DAJA Part NO.        |          |
|----------------------|------------------|-----------------------|----------------------|----------|
| Lok to Female Thread | Female Connector | FC                    | FC-6-4N-6            |          |
|                      | Tube Size 1      | Thread Spec.2         |                      | Material |
|                      | (in.)            | NPT thread Size (in.) | PT thread Size (in.) |          |
|                      | 4=1/4"           | 2N=1/8"               | 2K=1/8"              | 6=316    |
|                      | 6=3/8"           | 4N=1/4"               | 4K=1/4"              |          |
|                      | 8=1/2"           | 6N=3/8"               | 6K=3/8"              |          |
|                      | 12=3/4"          | 8N=1/2"               | 8K=1/2"              |          |
|                      | 16= 1"           | 12N=3/4"              | 12K=3/4"             |          |
|                      | 16N= 1"          | 16K= 1"               |                      |          |

## (FC) Female Connector

- For fractional tube
- NPT female thread



| DAJA Part NO.   | Tube O.D. | NPT Thread | Dimension |      |      |       |      |       |
|-----------------|-----------|------------|-----------|------|------|-------|------|-------|
|                 |           |            | A         | C    | D    | F     | R    | W HEX |
| Dimensions, mm. |           |            |           |      |      |       |      |       |
| FC-4-2N         | 1/4       | 1/8        | 31.5      | 15.2 | 24.8 | 14    | 12   | 14.28 |
| FC-4-4N         | 1/4       | 1/4        | 35.5      | 15.1 | 28.4 | 19.05 | 12.5 | 14    |
| FC-4-6N         | 1/4       | 3/8        | 37.3      | 15.1 | 30.2 | 22    | 12.5 | 14    |
| FC-4-8N         | 1/4       | 1/2        | 42.1      | 15.1 | 35   | 27    | 17.3 | 14    |
| FC-6-2N         | 3/8       | 1/8        | 33        | 16.8 | 25.4 | 16    | 12   | 17.46 |
| FC-6-4N         | 3/8       | 1/4        | 38        | 17.5 | 30.2 | 19.05 | 12.5 | 17.46 |
| FC-6-6N         | 3/8       | 3/8        | 39.6      | 17.5 | 31.8 | 22    | 12.5 | 17.46 |
| FC-6-8N         | 3/8       | 1/2        | 44.4      | 17.5 | 36.6 | 27    | 17.3 | 17.46 |
| FC-6-12N        | 3/8       | 3/4        | 48.2      | 17.5 | 40.4 | 33.34 | 17.5 | 17.46 |
| FC-8-4N         | 1/2       | 1/4        | 40.2      | 22.6 | 30.4 | 20.6  | 12.5 | 22    |
| FC-8-6N         | 1/2       | 3/8        | 41.8      | 22.6 | 32   | 22    | 12.5 | 22    |
| FC-8-8N         | 1/2       | 1/2        | 46.8      | 22.6 | 37   | 27    | 17.3 | 22    |
| FC-8-12N        | 1/2       | 3/4        | 48.2      | 22.6 | 38.4 | 33.34 | 17.5 | 22    |
| FC-12-8N        | 3/4       | 1/2        | 47.2      | 24.5 | 37   | 27    | 17.3 | 28.6  |
| FC-12-12N       | 3/4       | 3/4        | 48.6      | 24.5 | 38.4 | 33.34 | 17.5 | 28.6  |
| FC-16-12N       | 1         | 3/4        | 53.4      | 30.7 | 42   | 35    | 17.5 | 38.1  |
| FC-16-16N       | 1         | 1          | 61.4      | 30.7 | 50   | 41.3  | 22.4 | 38.1  |

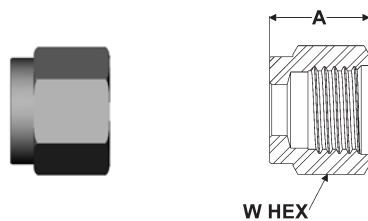
Note: (1) A and C dimensions are typical finger-tight.  
 (2) Dimensions for reference only, subject to change.

# Components

| Product Category | Description         | Code  | DAJA Part NO. |  |
|------------------|---------------------|-------|---------------|--|
| Components       | Nut                 | NT    | NT-4-6        |  |
|                  | Front Ferrule       | FF    | FF-4-6        |  |
|                  | Back Ferrule        | BF    | BF-4-6        |  |
|                  | Ferrule SET Package | FS    | FS-4-6        |  |
|                  | Plug                | PL    | PL-4-6        |  |
|                  | Cap Assembly        | CP    | CP-4-6        |  |
|                  | Tube Size 1         |       | Material      |  |
|                  | (in.)               |       |               |  |
|                  | 4=1/4"              |       |               |  |
|                  | 6=3/8"              |       |               |  |
| 8=1/2"           |                     |       |               |  |
| 12=3/4"          |                     |       |               |  |
| 16= 1"           |                     | 6=316 |               |  |

## (NT) NUT

•For fractional tube



| DAJA Part NO.   | Tube O.D. | Dimension |       |
|-----------------|-----------|-----------|-------|
|                 |           | A         | W HEX |
| Dimensions, mm. |           |           |       |
| NT-4            | 1/4       | 12.7      | 14    |
| NT-6            | 3/8       | 14.2      | 17.46 |
| NT-8            | 1/2       | 17.5      | 22    |
| NT-12           | 3/4       | 17.5      | 28.6  |
| NT-16           | 1         | 20.6      | 38.1  |

Note: (1) This will minimize the effort required to assemble the fitting properly.  
 (2) Dimensions for reference only, subject to change.

### (FS) Ferrule SET Package

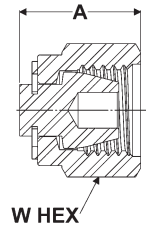
- For fractional tube  
10set per package  
(10pc front ferrule+10pc back ferrule)



| DAJA Part NO.   | Tube O.D. |
|-----------------|-----------|
| Dimensions, in. |           |
| FS-4            | 1/4       |
| FS-6            | 3/8       |
| FS-8            | 1/2       |
| FS-12           | 3/4       |
| FS-16           | 1         |

### (PL) Plug

- For fractional tube



| DAJA Part NO.   | Tube O.D. | Dimension |       |
|-----------------|-----------|-----------|-------|
|                 |           | A         | W HEX |
| Dimensions, mm. |           |           |       |
| PL-4            | 1/4       | 14.9      | 14    |
| PL-6            | 3/8       | 16.6      | 17.46 |
| PL-8            | 1/2       | 20.1      | 22    |
| PL-12           | 3/4       | 21.1      | 28.6  |
| PL-16           | 1         | 24.2      | 38.1  |

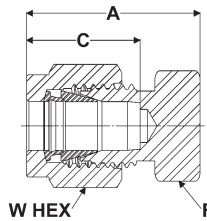
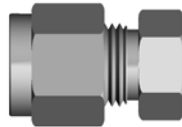
Note: Dimensions for reference only, subject to change.

### How to Assemble

Wrench tighten only 1/4 turn from finger tight position.  
Assembly includes machined ferrule with lock ring.

### (CP) Cap Assembly

- For fractional tube



| DAJA Part NO.   | Tube O.D. | Dimension |      |       |       |
|-----------------|-----------|-----------|------|-------|-------|
|                 |           | A         | C    | F     | W HEX |
| Dimensions, mm. |           |           |      |       |       |
| CP-4            | 1/4       | 23.1      | 15.1 | 12.7  | 14    |
| CP-6            | 3/8       | 26.2      | 17.5 | 15.88 | 17.46 |
| CP-8            | 1/2       | 29.2      | 22.6 | 20.6  | 22    |
| CP-12           | 3/4       | 31.8      | 24.5 | 27    | 28.6  |
| CP-16           | 1         | 37.4      | 30.7 | 35    | 38.1  |

Note: (1) A and C dimensions are typical finger-tight.  
(2) Dimensions for reference only, subject to change.

# DAJA

High Purity Pipes & Pipe Fittings



Micro Butt-Welding Fittings



Iok-DJ® Compression Fittings



Metal Gasket Face Seal Fittings



HP Ball Valve



UHP CGA/DISS Fittings Series







### Quality certification

1994: Certified to ISO 9002

1998: Certified to ISO 14001

2002: Certified to ISO 9001 (replacing ISO 9002)

2007: Certified to JIS MARK (JQA JIS B2312) (JQA JIS B2313)

2009: Certified to ISO 9001 : 2008

2013: Certified to JIS MARK (JQA JIS B2309)

2017: Certified to ISO 9001:2015

2020: Certified to NSF/ANSI 61-G

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2. High Purity Micro Butt-Welding Fittings.
3. High Purity Metal Gasket Face Seal Fittings.
4. UHP CGA/Diss Fittings Series.
5. Compression Fittings.
6. High Purity Ball Valves.
7. Manifold Pipe/Tube.
8. Contract Service: High Purity Welding components (in clean room).
9. Customized electro-polishing and UHP clean service.



### Tachia Yung Ho Machine Industry Co.,Ltd.

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Address: No. 51, 39th Road, Taichung Industrial Park, Taichung City, Taiwan 407

Tel: 886-4-36000080 Fax: 886-4-36000081

<http://www.yhmco.com.tw>

### 大甲永和機械工業股份有限公司

潔淨級事業部

地址：40768 台中市台中工業區39路51號

電話：886-4-36000080

傳真：886-4-36000081