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|-----------------------|--------------------------|-------------|
| Technical Report No.: | 72169216-ECER110 | 2022.05.31 |
| Manufacturer: | DK-Lok Corporation | AM-AF |
| Type / Article: | Fittings / Tube Fittings | Page 1 of 3 |

TECHNICAL REPORT

No.: 72169216-ECER110

The Specific Component:

| | |
|--|--|
| 1. Make: | DK-Lok Corporation |
| 2. Type: | Fittings |
| 3. Article: | Tube Fittings (as described in Annex 3 of this report). |
| 4. Operating Conditions: | <p>Nominal Working Pressure: 350 bar @ 15°C (Class 6)</p> <p>Maximum Working Pressure: Up to 455 bar.</p> <p>Operating Temperature: -40°C to +120°C</p> <p>Approval scope: See complete scope in Annex 3 of this report.</p> |
| 5. Name and address of the manufacturer: | DK-Lok Corporation 7, Golden root-ro 129beon-gil, Juchon-myeon Gimhae-si, Gyeongsangnam-do 50969 Republic of Korea |
| 6. Name and Address of Manufacturing plant: | DK-Lok Corporation 7, Golden root-ro 129beon-gil, Juchon-myeon Gimhae-si, Gyeongsangnam-do 50969 Republic of Korea |

7. Tests / Reviews Performed:

| No | Type of Test | ECE R110 Annex: | Testing in Present Report |
|----|----------------------------------|-----------------|---------------------------|
| 1 | Hydrostatic Strength | 5A | X |
| 2 | External Leakage | 5B | X |
| 3 | Corrosion Resistance | 5E | X |
| 4 | Continued Operation / Durability | 5L | X |
| 5 | Vibration Resistance | 5N | X |
| 6 | Operating Temperatures | 5O | X |

The test specimens used for physical tests, in regard to their features, were representative of the type subjected for approval. Fittings that were tested in the present report are described in Annex 2. When multiple fittings sizes and shapes are available, the worst-case scenario was selected in consideration of representing the complete range.

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The DK-Lok Corporation fittings meet the requirements of:

“ECE-Regulation No. 110, Revision 6 including Amendment 2 – Supplement 2 to the 04 Series of amendments – Date of entry into force on 25 September 2020.”

“Uniform provisions concerning the approval of specific components of motor vehicles using compressed natural gas (CNG) in their propulsion system”.

Note: This present report does not represent a conformance of the Quality Assurance related requirements of ECE R110. A separate *ECE R110* Attestation will be issued to confirm all Quality Assurance requirements are met.

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San Diego, CA USA - 2022.05.31
TÜV SÜD America, Inc.



The Technical Expert
André Frégeau
Alternative Fuels Manager.



Annexes:

- Annex 1 - Test results
- Annex 2 - Tested fittings and sizes
- Annex 3 - Fittings scope of approval.

ANNEX 1

Test results



Test Results.: Annex 1 of 72169216-ECER110
 Manufacturer: DK-Lok Corporation
 Type / Article: Fittings / Tube Fittings

2022.05.31
 AM-AF
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Annex 1 of Technical Report: No.: 72169216–HGV3.1 – Test Results

Applicant: DK-Lok Corporation
Subject of Application: Fittings (Tube Fittings)

Test Results:

| Type of Test | Test Procedure | Test Sample | Requirement | Test Result | Remarks |
|----------------------|-------------------|-------------|--|--|-----------|
| Hydrostatic Strength | ECE R110 Annex 5A | See Annex 2 | Burst shall be higher than 1.5X working pressure (525 bar) = 682,5 bar | OK The hydrostatic strength and burst pressure of the selected test samples were the following: <u>Tube fittings:</u> 3mm and 6mm: 1277,9 bar (18,533 psi) 10mm: 1075,0 bar (15,591 psi) 12mm, 18mm, 5/16": 1473,1 bar (21,364 psi) 22mm and 25mm: 1083,7 bar (15,717 psi) 1/16" and 1/4": 1453,7 bar (21,083 psi) 1/8": 1450,3 bar (21,034 psi) 3/8": 1464,7 bar (21,243 psi) 1/2" and 3/4": 1407,8 bar (20,417 psi) 1": 1004,3 bar (14,565 psi) | At hands. |



Test Results.: Annex 1 of 72169216-ECER110
 Manufacturer: DK-Lok Corporation
 Type / Article: Fittings / Tube Fittings

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| Type of Test | Test Procedure | Test Sample | Requirement | Test Result | Remarks |
|----------------------|----------------------|-------------|---|---|---|
| | | | | All fittings exceeded the minimum burst pressure of 682,5 bar. | |
| External Leakage | ECE R110 Annex 5B | See Annex 2 | After conditioning for 8 hours, no leakage for 3 minutes at -40C, ambient and +120C with GN2. Pressures: <ul style="list-style-type: none"> • -40C: 17.5 to 350 bar (5,076 psi) • Ambient: 17.5 to 525 bar (7,614 psi) • +120C: 17.5 to 525 bar (7,614 psi) | OK No external leakage was observed at any temperature/pressure | At hands All leak testing was performed with GH2 as it was combined with the requirements of HGV3.1. |
| Corrosion Resistance | ECE R110 Annex 5E | See Annex 2 | A CNG component shall comply with the leakage test in Annex 5B after having been submitted to 144 hours salt spray test according to ISO 15500-2, with all connections closed. | OK No apparent damage observed following the corrosion test No external leakage was observed at any temperature/pressure per Annex 5B | At hands. |



Test Results.: Annex 1 of 72169216-ECER110
 Manufacturer: DK-Lok Corporation
 Type / Article: Fittings / Tube Fittings

2022.05.31
 AM-AF
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| Type of Test | Test Procedure | Test Sample | Requirement | Test Result | Remarks |
|--------------|----------------------|-------------|--|--|-----------|
| Durability | ECE R110 Annex 5L | See Annex 2 | <p>Cycling of Fittings for 20,000 cycles to 350 bar with air or GN2.</p> <ul style="list-style-type: none"> • 96% of the cycles (19,200 to be performed at ambient temperature and up to 350 bar. • 2% of the cycles (400) to be performed at +120C and up to 455 bar. • 2% of the cycles (400) to be performed at -40C and up to 350 bar. <p>No external leakage per paragraph Annex 5B</p> <p>Following the external leakage, the fittings must be able to be assembled/disassembled while at +120C as well as -40C, with a torque no greater than specified in Table 5.3 of ECE R110, Part II, Annex 5L.</p> | <p>OK</p> <p>All testing was performed with GH2</p> <p>No external leakage was observed at any temperature/pressure per Annex 5B</p> <p>Fittings were assembled and disassembled, while at +120C as well as -40C, with a torque less than Table 5.3 in Annex 5L</p> <p>No external leakage was observed at any temperature/pressure per Annex 5B</p> | At hands. |



Test Results.: Annex 1 of 72169216-ECER110
 Manufacturer: DK-Lok Corporation
 Type / Article: Fittings / Tube Fittings

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| Type of Test | Test Procedure | Test Sample | Requirement | Test Result | Remarks |
|------------------------|----------------------|-------------|--|---|-----------|
| Vibration Resistance | ECE R110 Annex 5N | See Annex 2 | Vibrate unpressurized fittings for 2 hours, and along each of three axes, with a frequency of 17Hz and amplitude of 1.5mm. No external leakage per Annex 5B | OK All fitting were vibrated for 2 hours on each axis No external leakage was observed at any temperature/pressure. | At hands. |
| Operating Temperatures | ECE R110 Annex 5O | See Annex 2 | Assembly and disassembly of Fittings 25 times based on manufacturer's recommendations No external leakage per Annex 5B | OK Fittings were assembled based on the manufacturer's recommended torque and then disassembled No external leakage was observed at any temperature/pressure per Annex 5B | At hands. |

TÜV SÜD America, Inc.
10040 Mesa Rim Road
San Diego, CA 92121



| | | |
|-----------------|-----------------------------|-------------|
| Test Results.: | Annex 1 of 72169216-ECER110 | 2022.05.31 |
| Manufacturer: | DK-Lok Corporation | AM-AF |
| Type / Article: | Fittings / Tube Fittings | Page 5 of 5 |

The technical expert confirms that the tests have been performed as required by ECE R110 and have yielded the results as described above.

San Diego, CA USA - 2022.05.31
TÜV SÜD America, Inc.

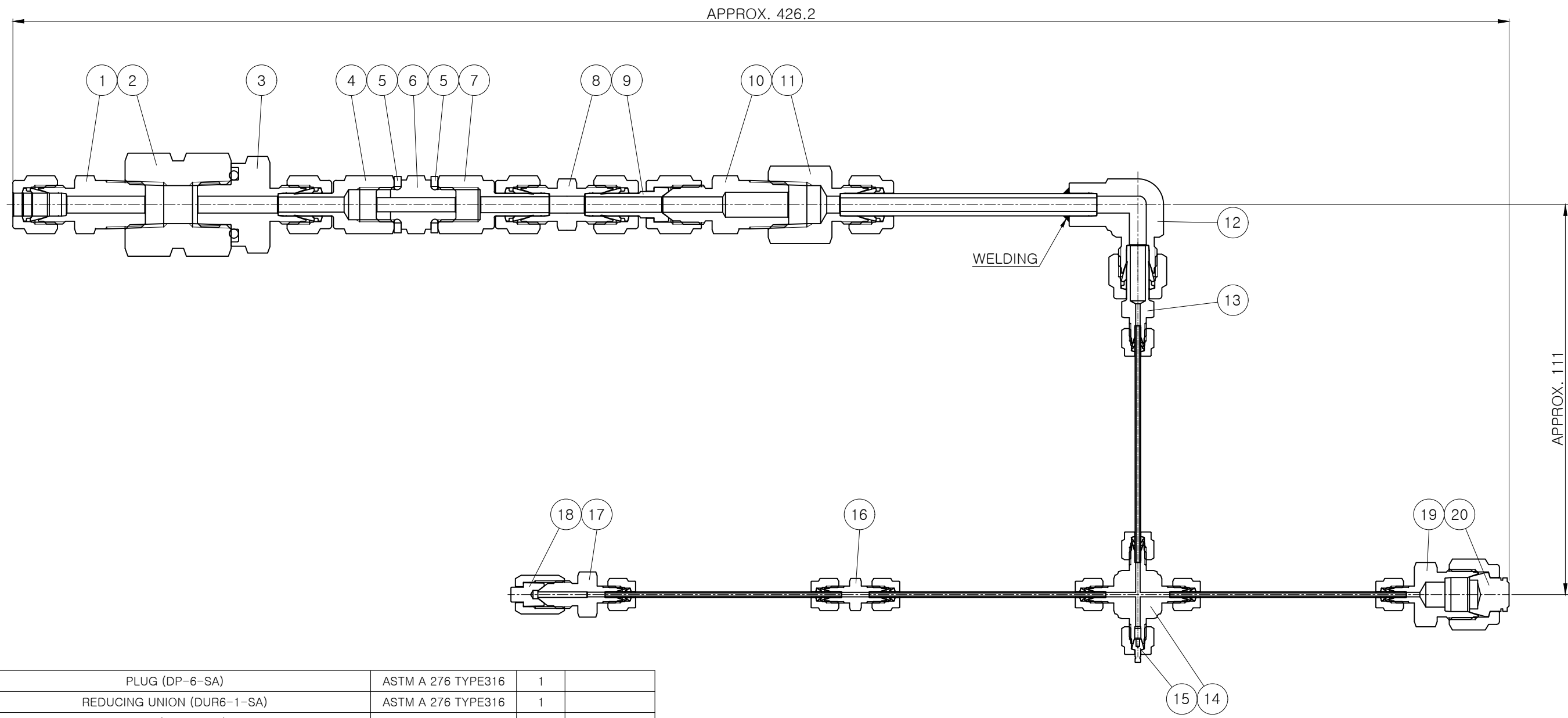
A handwritten signature in black ink, appearing to read 'André Frégeau'.



The Technical Expert
André Frégeau
Alternative Fuels Manager.

ANNEX 2

Tested fittings and sizes

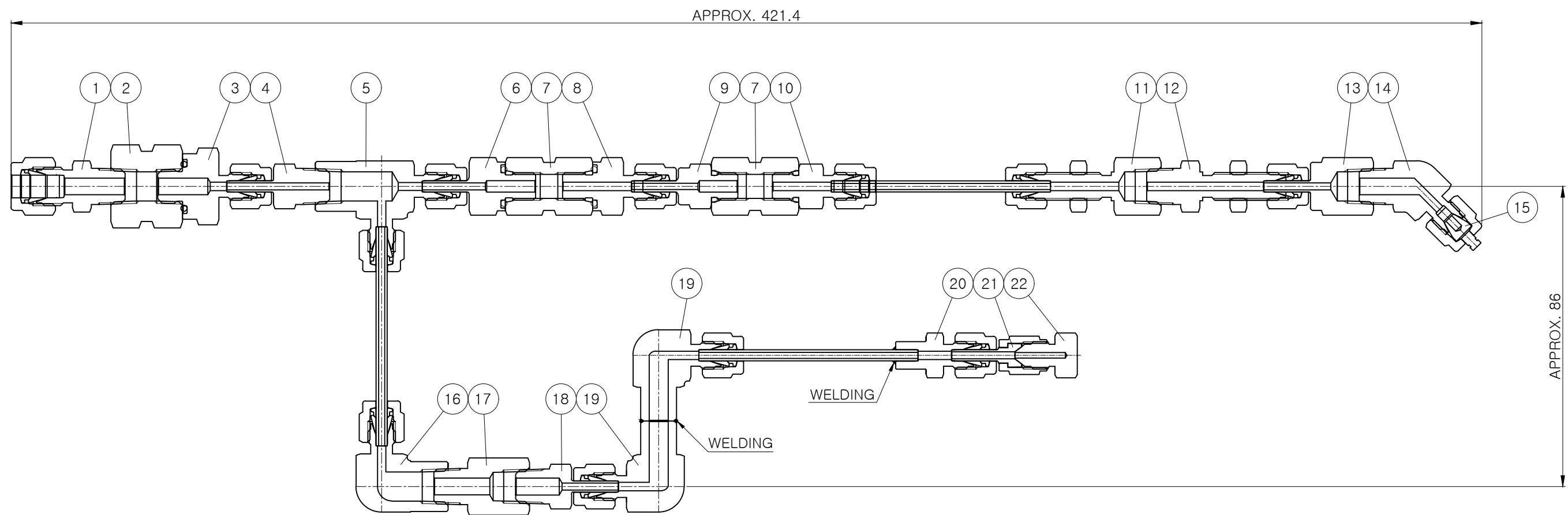


| NO. | DESCRIPTION | MATERIAL | Q'TY | REMARK |
|-----|-------------------------------------|---------------------|------|--------|
| 20 | PLUG (DP-6-SA) | ASTM A 276 TYPE316 | 1 | |
| *19 | REDUCING UNION (DUR6-1-SA) | ASTM A 276 TYPE316 | 1 | |
| 18 | PLUG (KP-2T-SA) | ASTM A 276 TYPE316 | 1 | |
| *17 | AN UNION (DUA1-2-SA) | ASTM A 276 TYPE316 | 1 | |
| *16 | UNION (DU-1-SA) | ASTM A 276 TYPE316 | 1 | |
| 15 | PLUG (DP-1-SA) | ASTM A 276 TYPE316 | 1 | |
| *14 | UNION CROSS (DX-1-SA) | ASTM A 182 F316 | 1 | |
| *13 | REDUCER (DR1-4-SA) | ASTM A 276 TYPE316 | 1 | |
| *12 | TUBE SOCKET WELD ELBOW (DLSW4-4-SA) | ASTM A 182 F316 | 1 | |
| 11 | FEMALE CONNECTOR (DCF4-4N-SA) | ASTM A 276 TYPE316 | 1 | |
| 10 | MALE CONNECTOR (KMC4T-4N-S) | ASTM A 276 TYPE316 | 1 | |
| *9 | AN ADAPTER (DAA4-4-SA) | ASTM A 276 TYPE316 | 1 | |
| 8 | UNION (DU-4-SA) | ASTM A 276 TYPE316 | 1 | |
| *7 | FEMALE ADAPTER (DAF4-2GG-S) | ASTM A 276 TYPE316 | 1 | |
| 6 | HEX NIPPLE (GNH-2G-S) | ASTM A 276 TYPE316 | 1 | |
| 5 | INNER RING (DGV-2-S) | STAINLESS STEEL+FKM | 2 | |
| *4 | FEMALE ADAPTER (DAF4-2GR-S) | ASTM A 276 TYPE316 | 1 | |
| *3 | MALE CONNECTOR (DMC4-4NO-SA) | ASTM A 276 TYPE316 | 1 | |
| 2 | HEX COUPLING (GCG-4N-10K-S) | ASTM A 276 TYPE316 | 1 | |
| 1 | MALE CONNECTOR (DMC4-4N-SA) | ASTM A 276 TYPE316 | 1 | |

TITLE

DK-LOK TUBE FITTING
350 bar
TUBE O.D 1/16" * 1/4"

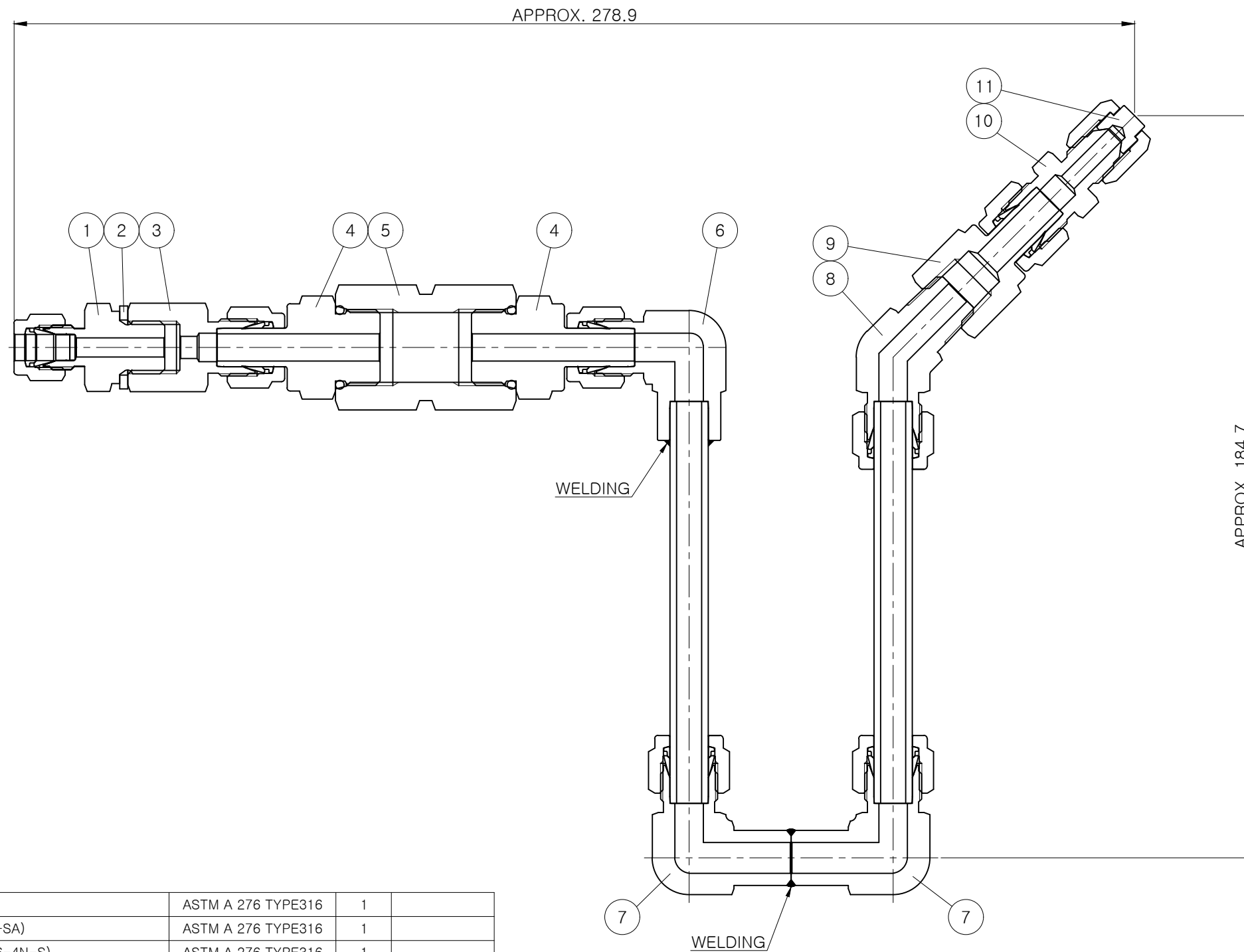
IDK-LOK
Fittings & Valves



| | | | | |
|------|---|--------------------|------|--------|
| 22 | CAP (KC-2T-S) | ASTM A 276 TYPE316 | 1 | |
| * 21 | AN ADAPTER (DAA2-2-SA) | ASTM A 276 TYPE316 | 1 | |
| * 20 | TUBE SOCKET WELD CONNECTOR (DCSW2-2-SA) | ASTM A 276 TYPE316 | 1 | |
| * 19 | MALE PIPE WELD ELBOW (DLW2-2P-SA) | ASTM A 182 F316 | 2 | |
| * 18 | MALE ADAPTER (DAM2-2R-S) | ASTM A 276 TYPE316 | 1 | |
| 17 | ADAPTER (GACMF-2NR-S) | ASTM A 276 TYPE316 | 1 | |
| * 16 | FEMALE ELBOW (DLF2-2N-SA) | ASTM A 182 F316 | 1 | |
| 15 | PLUG (DP-2-SA) | ASTM A 276 TYPE316 | 1 | |
| * 14 | 45° MALE ELBOW (DLBM2-2N-SA) | ASTM A 182 F316 | 1 | |
| * 13 | FEMALE ADAPTER (DAF2-2N-S) | ASTM A 276 TYPE316 | 1 | |
| * 12 | BULKHEAD MALE CONNECTOR (DMCB2-2N-SA) | ASTM A 276 TYPE316 | 1 | |
| * 11 | BULKHEAD FEMALE CONNECTOR (DCBF2-2N-SA) | ASTM A 276 TYPE316 | 1 | |
| * 10 | MALE CONNECTOR (DMCS2-2U-SA) | ASTM A 276 TYPE316 | 1 | |
| * 9 | MALE ADAPTER (DAM2-2U-SA) | ASTM A 276 TYPE316 | 1 | |
| * 8 | MALE CONNECTOR (DMC2-2UO-SA) | ASTM A 276 TYPE316 | 1 | |
| 7 | HEX COUPLING (GCG-2U-S) | ASTM A 276 TYPE316 | 2 | |
| * 6 | MALE ADAPTER (DAM2-2UO-SA) | ASTM A 276 TYPE316 | 1 | |
| * 5 | FEMALE RUN TEE (DTRF2-2N-SA) | ASTM A 182 F316 | 1 | |
| 4 | MALE ADAPTER (DAM2-2N-S) | ASTM A 276 TYPE316 | 1 | |
| * 3 | MALE CONNECTOR (DMC2-2NO-SA) | ASTM A 276 TYPE316 | 1 | |
| 2 | HEX COUPLING (GCG-2N-10K-S) | ASTM A 276 TYPE316 | 1 | |
| 1 | MALE CONNECTOR (DMC4-2N-SA) | ASTM A 276 TYPE316 | 1 | |
| NO. | DESCRIPTION | MATERIAL | Q'TY | REMARK |

TITLE
 DK-LOK TUBE FITTING
 350 bar
 TUBE O.D 1/8"

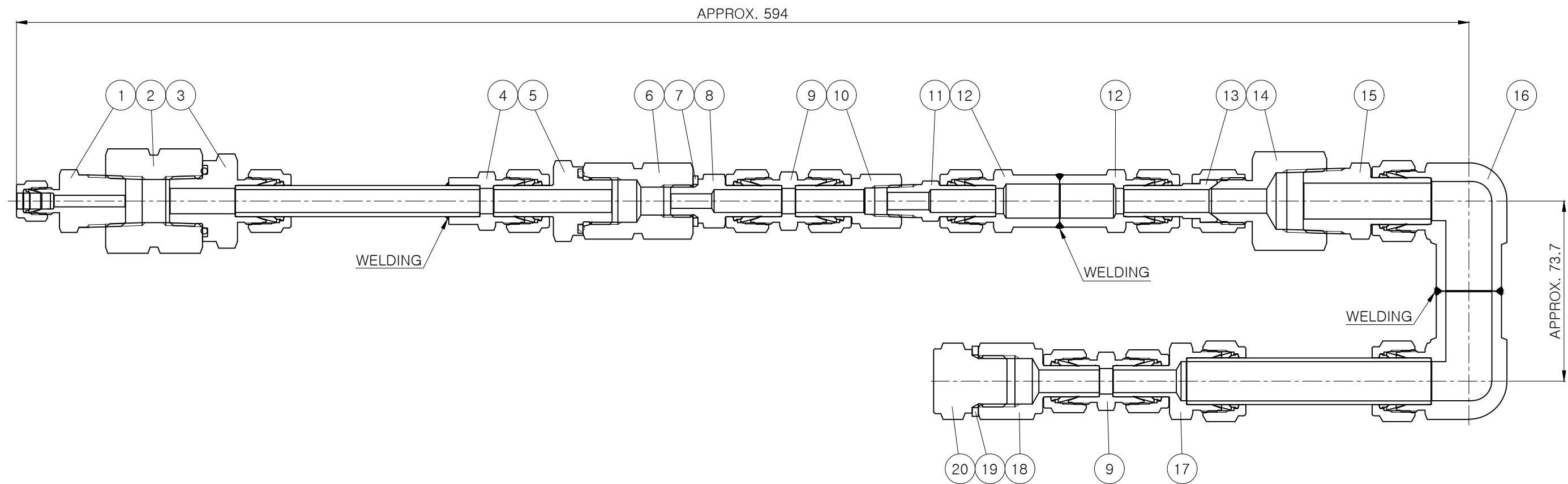
IDK-LOK
 Fittings & Valves



| | | | | |
|-----|-------------------------------------|---------------------|------|--------|
| 11 | PLUG (KP-4T-S) | ASTM A 276 TYPE316 | 1 | |
| *10 | AN UNION (DUA6-4-SA) | ASTM A 276 TYPE316 | 1 | |
| 9 | FEMALE ADAPTER (DAF6-4N-S) | ASTM A 276 TYPE316 | 1 | |
| * 8 | 45° MALE ELBOW (DLBM6-4N-SA) | ASTM A 182 F316 | 1 | |
| * 7 | MALE PIPE WELD ELBOW (DLW6-4P-SA) | ASTM A 182 F316 | 2 | |
| * 6 | TUBE SOCKET WELD ELBOW (DLSW6-6-SA) | ASTM A 182 F316 | 1 | |
| 5 | HEX COUPLING (GCG-8U-S) | ASTM A 276 TYPE316 | 1 | |
| * 4 | MALE ADAPTER (DAM6-8U-SA) | ASTM A 276 TYPE316 | 2 | |
| * 3 | GAUGE CONNECTOR (DCF6-4GG-SA) | ASTM A 276 TYPE316 | 1 | |
| 2 | INNER RING (DGV-4-S) | STAINLESS STEEL+FKM | 1 | |
| 1 | MALE CONNECTOR (DMC4-4G-SA) | ASTM A 276 TYPE316 | 1 | |
| NO. | DESCRIPTION | MATERIAL | Q'TY | REMARK |

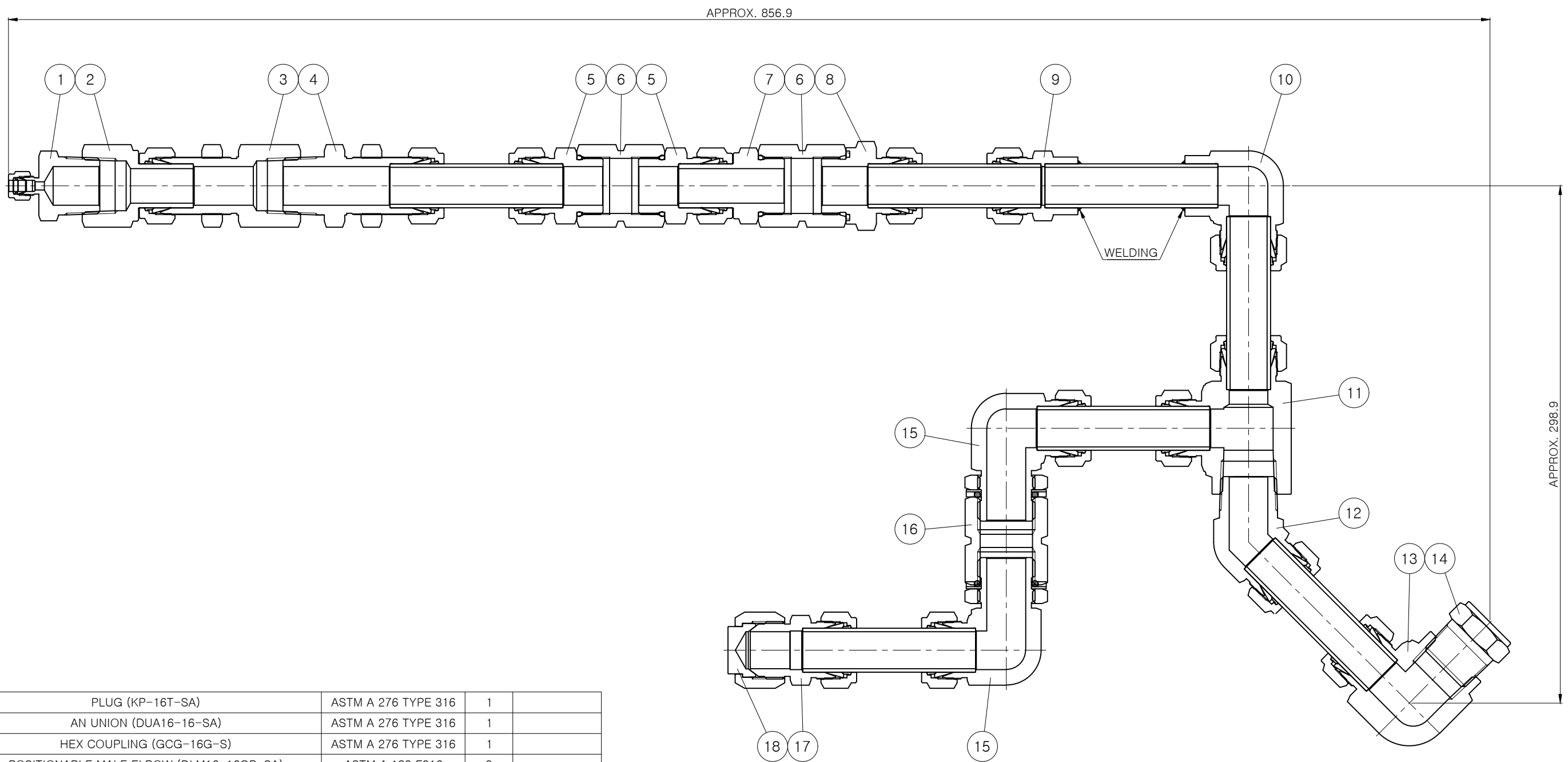
TITLE
 DK-LOK TUBE FITTING
 350 bar
 TUBE O.D 3/8"

IDK-LOK
 Fittings & Valves



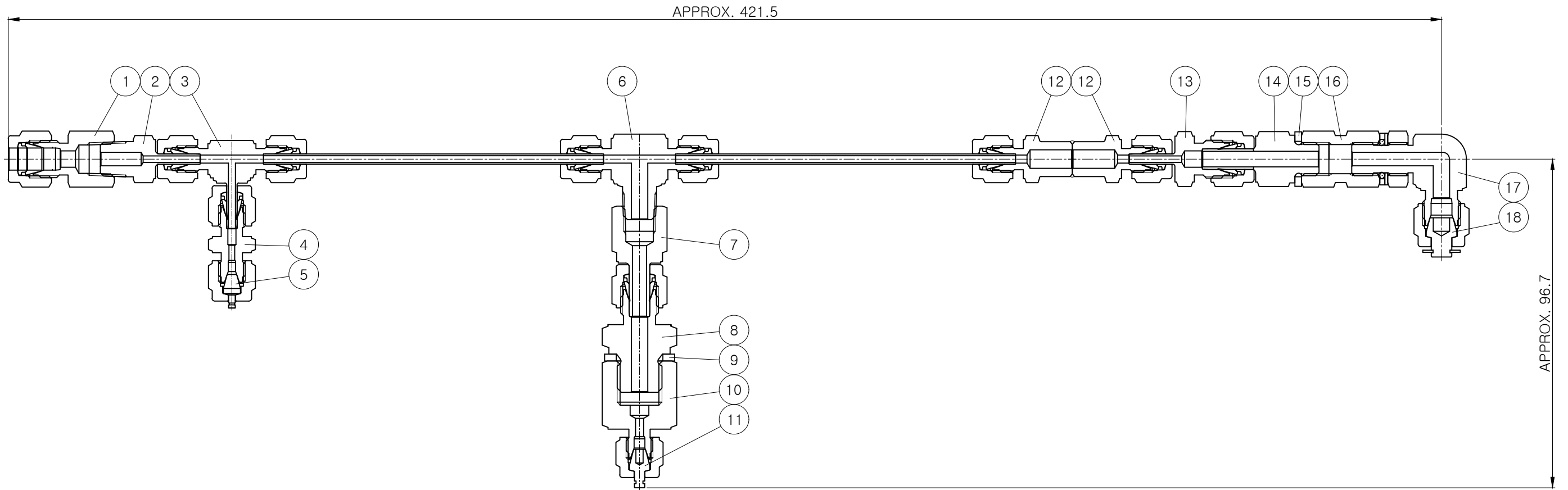
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|-----|---|---------------------|------|--------|
| 20 | PIPE PLUG (GP-8G-S) | ASTM A 276 TYPE316 | 1 | |
| 19 | INNER RING (DGV-8-S) | STAINLESS STEEL+FKM | 1 | |
| *18 | FEMALE ADAPTER (DAF8-8GR-S) | ASTM A 276 TYPE316 | 1 | |
| *17 | REDUCER (DR12-8-SA) | ASTM A 276 TYPE316 | 1 | |
| *16 | MALE PIPE WELD ELBOW(DLW12-12P-SA) | ASTM A 182 F316 | 2 | |
| *15 | MALE ADAPTER (DAM12-12R-S) | ASTM A 276 TYPE316 | 1 | |
| 14 | FEMALE CONNECTOR (KCF8T-12R-SA) | ASTM A 276 TYPE316 | 1 | |
| *13 | AN ADAPTER (DAA8-8-SA) | ASTM A 276 TYPE316 | 1 | |
| *12 | MALE PIPE WLED CONNECTOR (DCW8-6P-SA) | ASTM A 276 TYPE316 | 2 | |
| 11 | MALE ADAPTER (DAM8-4R-S) | ASTM A 276 TYPE316 | 1 | |
| *10 | FEMALE ADAPTER (DAF8-4R-S) | ASTM A 276 TYPE316 | 1 | |
| *9 | UNION (DU-8-SA) | ASTM A 276 TYPE316 | 2 | |
| *8 | MALE ADAPTER (DAM8-4G-S) | ASTM A 276 TYPE316 | 1 | |
| 7 | INNER RING (DGV-4-S) | STAINLESS STEEL+FKM | 1 | |
| 6 | HEX REDUCING COUPLING (GCGR8U-4GR-S) | ASTM A 276 TYPE316 | 1 | |
| *5 | MALE ADAPTER (DAM8-8UO-SA) | ASTM A 276 TYPE316 | 1 | |
| *4 | TUBE SOCKET WELD CONNECTOR (DCSW8-8-SA) | ASTM A 276 TYPE316 | 1 | |
| *3 | MALE CONNECTOR (DMC8-8NO-SA) | ASTM A 276 TYPE316 | 1 | |
| 2 | HEX COUPLING (GCG-8N-S) | ASTM A 276 TYPE316 | 1 | |
| 1 | MALE CONNECTOR (DMC4-8N-SA) | ASTM A 276 TYPE316 | 1 | |
| NO. | DESCRIPTION | MATERIAL | Q'TY | REMARK |

| MATERIAL | Q'TY | REMARK |
|-------------------------------------|------|--------|
| TITLE | | |
| DK-LOK TUBE FITTING | | |
| 350 bar | | |
| TUBE O.D 1/2" * 3/4" | | |
| IDK-LOK Fittings & Valves | | |



| | | | | |
|-----|---|---------------------|------|--------|
| 18 | PLUG (KP-16T-SA) | ASTM A 276 TYPE 316 | 1 | |
| *17 | AN UNION (DUA16-16-SA) | ASTM A 276 TYPE 316 | 1 | |
| 16 | HEX COUPLING (GCG-16G-S) | ASTM A 276 TYPE 316 | 1 | |
| *15 | POSITIONABLE MALE ELBOW (DLM16-16GP-SA) | ASTM A 182 F316 | 2 | |
| 14 | PIPE PLUG (GP-16N-S) | ASTM A 276 TYPE 316 | 1 | |
| *13 | FEMALE ELBOW (DLF16-16N-SA) | ASTM A 182 F316 | 1 | |
| *12 | 45° MALE ELBOW (DLBM16-16N-SA) | ASTM A 182 F316 | 1 | |
| *11 | FEMALE RUN TEE (DTRF16-16N-SA) | ASTM A 182 F316 | 1 | |
| *10 | TUBE SOCKET WELD ELBOW (DLSW16-16-SA) | ASTM A 182 F316 | 1 | |
| *9 | TUBE SOCKET WELD CONNECTOR (DCSW16-16-SA) | ASTM A 276 TYPE 316 | 1 | |
| *8 | MALE CONNECTOR (DMC16-16UO-SA) | ASTM A 276 TYPE 316 | 1 | |
| *7 | MALE ADAPTER (DAM16-16U-SA) | ASTM A 276 TYPE 316 | 1 | |
| 6 | HEX COUPLING (GCG-16U-S) | ASTM A 276 TYPE 316 | 2 | |
| *5 | SAE MALE CONNECTOR (DMCS16-16U-SA) | ASTM A 276 TYPE 316 | 2 | |
| *4 | BULKHEAD MALE CONNECTOR (DMCB16-16N-SA) | ASTM A 276 TYPE 316 | 1 | |
| *3 | BULKHEAD FEMALE CONNECTOR (DCBF16-16N-SA) | ASTM A 276 TYPE 316 | 1 | |
| *2 | FEMALE ADAPTER (DAF16-16N-S) | ASTM A 276 TYPE 316 | 1 | |
| 1 | MALE CONNECTOR (DMC4-16N-SA) | ASTM A 276 TYPE 316 | 1 | |
| NO. | DESCRIPTION | MATERIAL | Q'TY | REMARK |

| MATERIAL | Q'TY | REMARK |
|---|------|--------|
| TITLE | | |
| DK-LOK TUBE FITTING 350 bar TUBE O.D 1" | | |
| IDK-LOK Fittings & Valves | | |

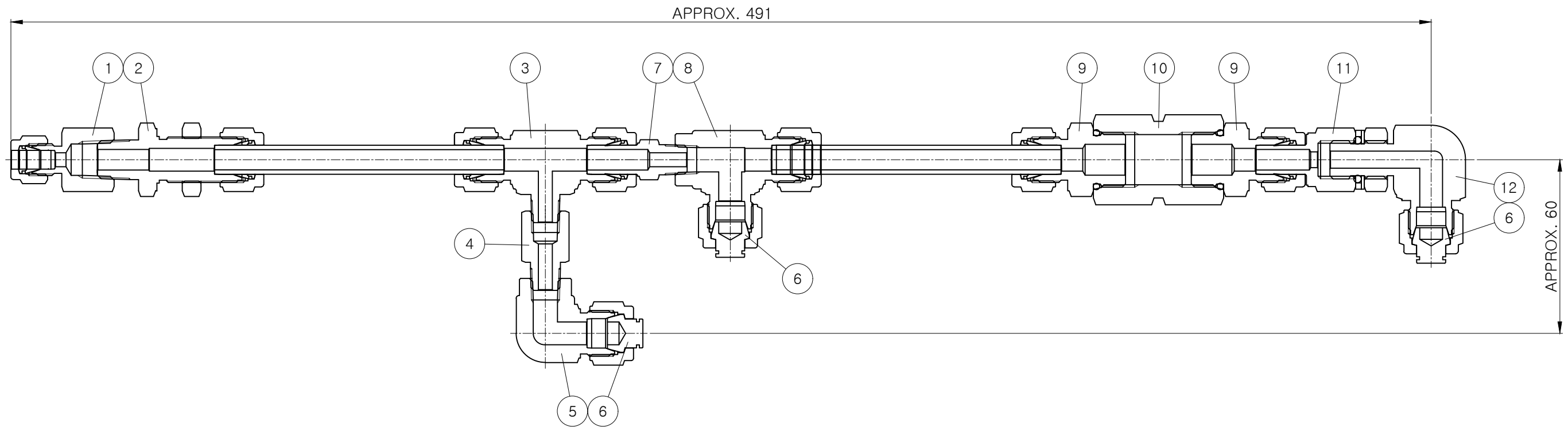


| | | | | |
|-----|--|---------------------|------|--------|
| 18 | PLUG (DP-6M-SA) | ASTM A 276 TYPE316 | 1 | |
| *17 | POSITIONABLE MALE ELBIW (DLM6M-2GP-SA) | ASTM A 182 F316 | 1 | |
| 16 | HEX COUPLING (GCG-2GR-S) | ASTM A 276 TYPE316 | 1 | |
| 15 | INNER RING (DGV-2-S) | STAINLESS STEEL+FKM | 1 | |
| *14 | MALE ADAPTER (DAM6M-2G-S) | ASTM A 276 TYPE316 | 1 | |
| 13 | REDUCER (DR3M-6M-SA) | ASTM A 276 TYPE316 | 1 | |
| *12 | MALE PIPE WELD CONNECTOR (DCW3M-2P-SA) | ASTM A 276 TYPE316 | 2 | |
| 11 | PLUG (DP-3M-SA) | ASTM A 276 TYPE316 | 1 | |
| *10 | FEMALE CONNECTOR (DCF3M-4GG-SA) | ASTM A 276 TYPE316 | 1 | |
| 9 | INNER RING (DGV-4-S) | STAINLESS STEEL+FKM | 1 | |
| 8 | MALE CONNECTOR (DMC6M-4G-SA) | ASTM A 276 TYPE316 | 1 | |
| *7 | FEMALE ADAPTER (DAF6M-2R-S) | ASTM A 276 TYPE316 | 1 | |
| *6 | MALE BRANCH TEE (DTBM3M-2R-SA) | ASTM A 182 F316 | 1 | |
| 5 | PLUG (DP-2M-SA) | ASTM A 276 TYPE316 | 1 | |
| *4 | REDUCING UNION (DUR3M-2M-SA) | ASTM A 276 TYPE316 | 1 | |
| 3 | BRANCH TEE ADAPTER (DTBA-3M-SA) | ASTM A 182 F316 | 1 | |
| 2 | MALE ADAPTER (DAM3M-2N-S) | ASTM A 276 TYPE316 | 1 | |
| 1 | FEMALE CONNECTOR (DCF4-2N-SA) | ASTM A 276 TYPE316 | 1 | |
| NO. | DESCRIPTION | MATERIAL | Q'TY | REMARK |

TITLE

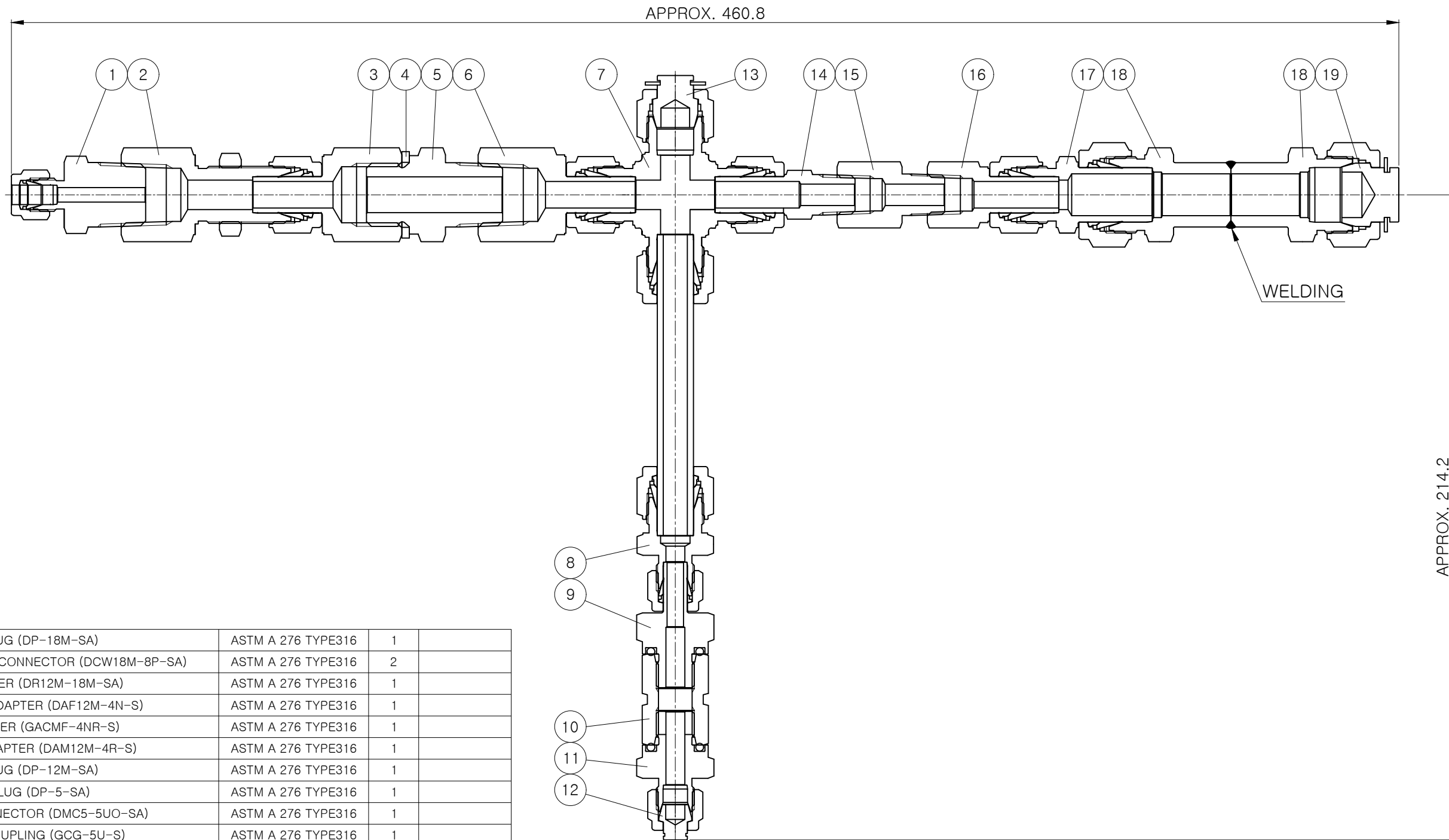
DK-LOK TUBE FITTING
350 bar
TUBE O.D 3mm * 6mm

IDK-LOK
Fittings & Valves



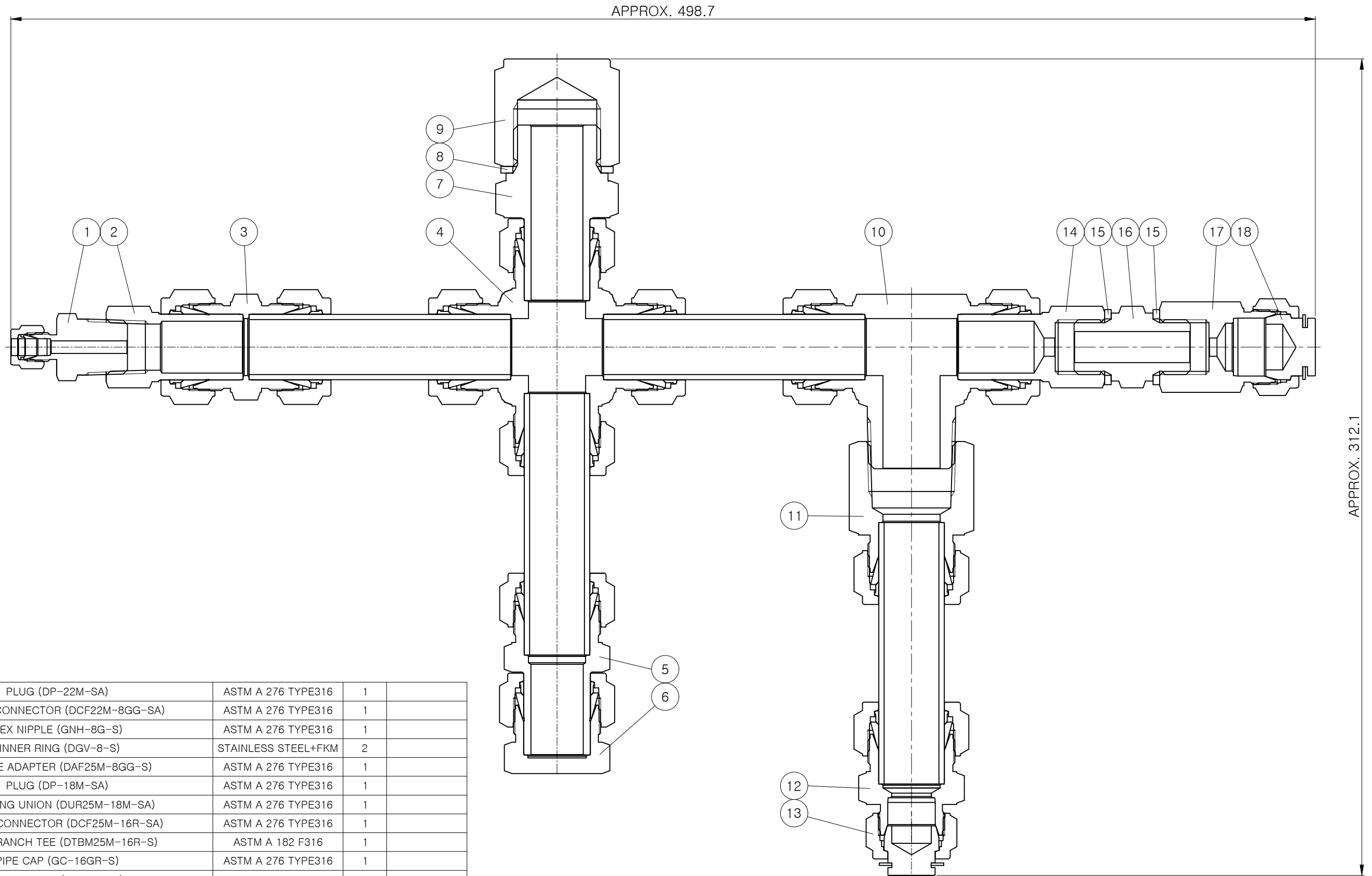
| | | | | |
|-----|---|--------------------|------|--------|
| *12 | POSITIONABLE MALE ELBOW (DLM10M-4GP-SA) | ASTM A 182 F316 | 1 | |
| *11 | FEMALE ADAPTER (DAF10M-4GG-S) | ASTM A 276 TYPE316 | 1 | |
| 10 | HEX COUPLING (GCG-8U-S) | ASTM A 276 TYPE316 | 1 | |
| *9 | SAE MALE CONNECTOR (DMCS10M-8U-SA) | ASTM A 276 TYPE316 | 2 | |
| *8 | FEMALE RUN TEE (DTRF10M-2N-SA) | ASTM A 182 F316 | 1 | |
| 7 | MALE ADAPTER (DAM10M-2N-S) | ASTM A 276 TYPE316 | 1 | |
| 6 | PLUG (DP-10M-SA) | ASTM A 276 TYPE316 | 3 | |
| *5 | FEMALE ELBOW (DLF10M-2N-SA) | ASTM A 182 F316 | 1 | |
| 4 | ADAPTER (GACMF-2NR-S) | ASTM A 276 TYPE316 | 1 | |
| *3 | MALE BRANCH TEE (DTBM10M-2R-SA) | ASTM A 182 F316 | 1 | |
| *2 | BULKHEAD MALE CONNECTOR (DMCB10M-4N-SA) | ASTM A 276 TYPE316 | 1 | |
| 1 | FEMALE CONNECTOR (DCF4-4N-SA) | ASTM A 276 TYPE316 | 1 | |
| NO. | DESCRIPTION | MATERIAL | Q'TY | REMARK |

| MATERIAL | Q'TY | REMARK |
|---|------|--------|
| DK-LOK TUBE FITTING 350 bar TUBE O.D 10mm | | |
| IDK-LOK Fittings & Valves | | |



| | | | | |
|-----|---|---------------------|------|--------|
| 19 | PLUG (DP-18M-SA) | ASTM A 276 TYPE316 | 1 | |
| *18 | MALE PIPE WELD CONNECTOR (DCW18M-8P-SA) | ASTM A 276 TYPE316 | 2 | |
| 17 | REDUCER (DR12M-18M-SA) | ASTM A 276 TYPE316 | 1 | |
| *16 | FEMALE ADAPTER (DAF12M-4N-S) | ASTM A 276 TYPE316 | 1 | |
| 15 | ADAPTER (GACMF-4NR-S) | ASTM A 276 TYPE316 | 1 | |
| *14 | MALE ADAPTER (DAM12M-4R-S) | ASTM A 276 TYPE316 | 1 | |
| 13 | PLUG (DP-12M-SA) | ASTM A 276 TYPE316 | 1 | |
| 12 | PLUG (DP-5-SA) | ASTM A 276 TYPE316 | 1 | |
| *11 | MALE CONNECTOR (DMC5-5UO-SA) | ASTM A 276 TYPE316 | 1 | |
| 10 | HEX COUPLING (GCG-5U-S) | ASTM A 276 TYPE316 | 1 | |
| *9 | MALE ADAPTER (DAM5-5UO-SA) | ASTM A 276 TYPE316 | 1 | |
| 8 | REDUCER (DR12M-5-SA) | ASTM A 276 TYPE316 | 1 | |
| *7 | UNION CROSS (DX-12M-SA) | ASTM A 182 F316 | 1 | |
| *6 | FEMALE ADAPTER (DAF12M-8R-S) | ASTM A 276 TYPE316 | 1 | |
| 5 | HEX NIPPLE (GNH-8RG-S) | ASTM A 276 TYPE316 | 1 | |
| 4 | INNER RING (DGV-8-S) | STAINLESS STEEL+FKM | 1 | |
| *3 | FEMALE ADAPTER (DAF12M-8GR-S) | ASTM A 276 TYPE316 | 1 | |
| *2 | BULKHEAD FEMALE CONNECTOR (DCBF12M-8N-SA) | ASTM A 276 TYPE316 | 1 | |
| 1 | MALE CONNECTOR (DMC4-8N-SA) | ASTM A 276 TYPE316 | 1 | |
| NO. | DESCRIPTION | MATERIAL | Q'TY | REMARK |

| MATERIAL | Q'TY | REMARK |
|--|------|--------|
| DK-LOK TUBE FITTING 350 bar TUBE O.D 12mm * 18mm * 5/16" | | |
| IDK-LOK Fittings & Valves | | |



| | | | | |
|-----|----------------------------------|---------------------|------|--------|
| 18 | PLUG (DP-22M-SA) | ASTM A 276 TYPE316 | 1 | |
| *17 | FEMALE CONNECTOR (DCF22M-8GG-SA) | ASTM A 276 TYPE316 | 1 | |
| 16 | HEX NIPPLE (GNH-8G-S) | ASTM A 276 TYPE316 | 1 | |
| 15 | INNER RING (DGV-8-S) | STAINLESS STEEL+FKM | 2 | |
| *14 | FEMALE ADAPTER (DAF25M-8GG-S) | ASTM A 276 TYPE316 | 1 | |
| 13 | PLUG (DP-18M-SA) | ASTM A 276 TYPE316 | 1 | |
| *12 | REDUCING UNION (DUR25M-18M-SA) | ASTM A 276 TYPE316 | 1 | |
| 11 | FEMALE CONNECTOR (DCF25M-16R-SA) | ASTM A 276 TYPE316 | 1 | |
| *10 | MALE BRANCH TEE (DTBM25M-16R-S) | ASTM A 182 F316 | 1 | |
| 9 | PIPE CAP (GC-16GR-S) | ASTM A 276 TYPE316 | 1 | |
| 8 | INNER RING (DGV-16-S) | STAINLESS STEEL+FKM | 1 | |
| *7 | MALE ADAPTER (DAM25M-16G-S) | ASTM A 276 TYPE316 | 1 | |
| 6 | CAP (DC-16-SA) | ASTM A 276 TYPE316 | 1 | |
| *5 | REDUCER (DR25M-16-SA) | ASTM A 276 TYPE316 | 1 | |
| *4 | UNION CROSS (DX-25M-SA) | ASTM A 182 F316 | 1 | |
| *3 | UNION (DU-25M-SA) | ASTM A 276 TYPE316 | 1 | |
| 2 | FEMALE ADAPTER (DAF25M-8N-S) | ASTM A 276 TYPE316 | 1 | |
| 1 | MALE CONNECTOR (DMC4-8N-SA) | ASTM A 276 TYPE316 | 1 | |
| NO. | DESCRIPTION | MATERIAL | Q'TY | REMARK |

| MATERIAL | Q'TY | REMARK |
|--|------|--------|
| DK-LOK TUBE FITTING 350 bar TUBE O.D 22mm * 25mm | | |
| IDK-LOK Fittings & Valves | | |

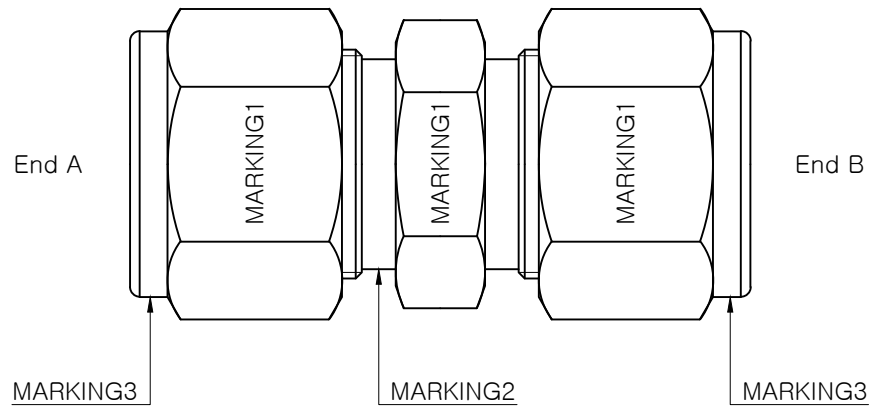
ANNEX 3

Fittings scope of approval

| ASSY Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|---------------|-----|---------------|-------------------|------|
| DU-XX-SA | 1 | BODY | ASTM A276 TYPE316 | 1 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 2 |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 2 |
| | 4 | NUT | ASTM A276 TYPE316 | 2 |




| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size Tube O.D B |
|----------|------------------------|------------------------|
| DU-1 | 1/16" | 1/16" |
| DU-2 | 1/8" | 1/8" |
| DU-3 | 3/16" | 3/16" |
| DU-4 | 1/4" | 1/4" |
| DU-5 | 5/16" | 5/16" |
| DU-6 | 3/8" | 3/8" |
| DU-8 | 1/2" | 1/2" |
| DU-10 | 5/8" | 5/8" |
| DU-12 | 3/4" | 3/4" |
| DU-14 | 7/8" | 7/8" |
| DU-16 | 1" | 1" |
| DU-2M | 2mm | 2mm |
| DU-3M | 3mm | 3mm |
| DU-4M | 4mm | 4mm |
| DU-6M | 6mm | 6mm |
| DU-8M | 8mm | 8mm |
| DU-10M | 10mm | 10mm |
| DU-12M | 12mm | 12mm |
| DU-14M | 14mm | 14mm |
| DU-15M | 15mm | 15mm |
| DU-16M | 16mm | 16mm |
| DU-18M | 18mm | 18mm |
| DU-20M | 20mm | 20mm |
| DU-22M | 22mm | 22mm |
| DU-25M | 25mm | 25mm |



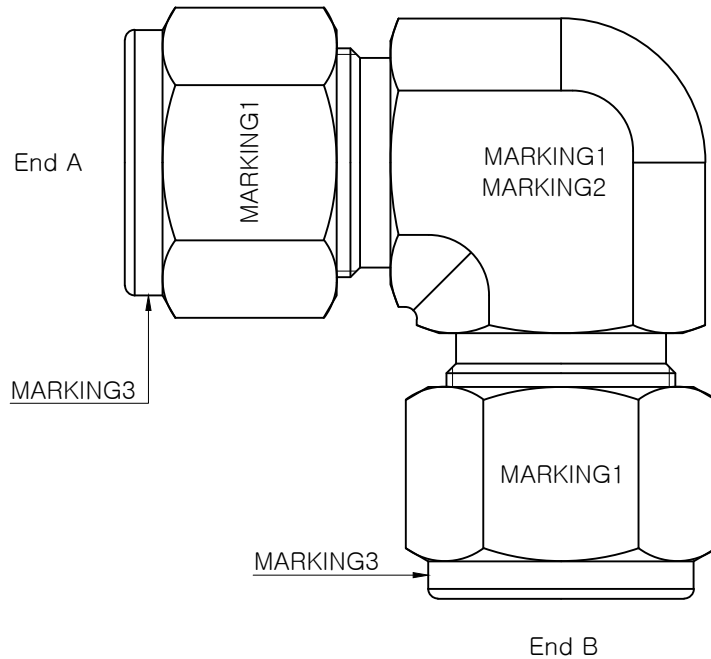
* SPECIFICATION

- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : DK-Lok [MAT'L] [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2, 3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|---|--|
| APPROVED |  | TITLE DU / DK-LOK TUBE FITTING UNION |
| REVIEWED | | |
| DESIGNED |  | |
| SCALE | N/S | |
| DATE | 2022.04.15 |  Fittings & Valves |
| DWG. NO. | DU | |

| ASSY Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|---------------|-----|---------------|-------------------|------|
| DL-XX-SA | 1 | BODY | ASTM A182 F316 | 1 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 2 |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 2 |
| | 4 | NUT | ASTM A276 TYPE316 | 2 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |



| Part No. | End Size Tube O.D A | End Size Tube O.D B |
|----------|------------------------|------------------------|
| DL-1 | 1/16" | 1/16" |
| DL-2 | 1/8" | 1/8" |
| DL-3 | 3/16" | 3/16" |
| DL-4 | 1/4" | 1/4" |
| DL-5 | 5/16" | 5/16" |
| DL-6 | 3/8" | 3/8" |
| DL-8 | 1/2" | 1/2" |
| DL-10 | 5/8" | 5/8" |
| DL-12 | 3/4" | 3/4" |
| DL-14 | 7/8" | 7/8" |
| DL-16 | 1" | 1" |
| DL-2M | 2mm | 2mm |
| DL-3M | 3mm | 3mm |
| DL-4M | 4mm | 4mm |
| DL-6M | 6mm | 6mm |
| DL-8M | 8mm | 8mm |
| DL-10M | 10mm | 10mm |
| DL-12M | 12mm | 12mm |
| DL-15M | 15mm | 15mm |
| DL-16M | 16mm | 16mm |
| DL-18M | 18mm | 18mm |
| DL-20M | 20mm | 20mm |
| DL-22M | 22mm | 22mm |
| DL-25M | 25mm | 25mm |

* SPECIFICATION

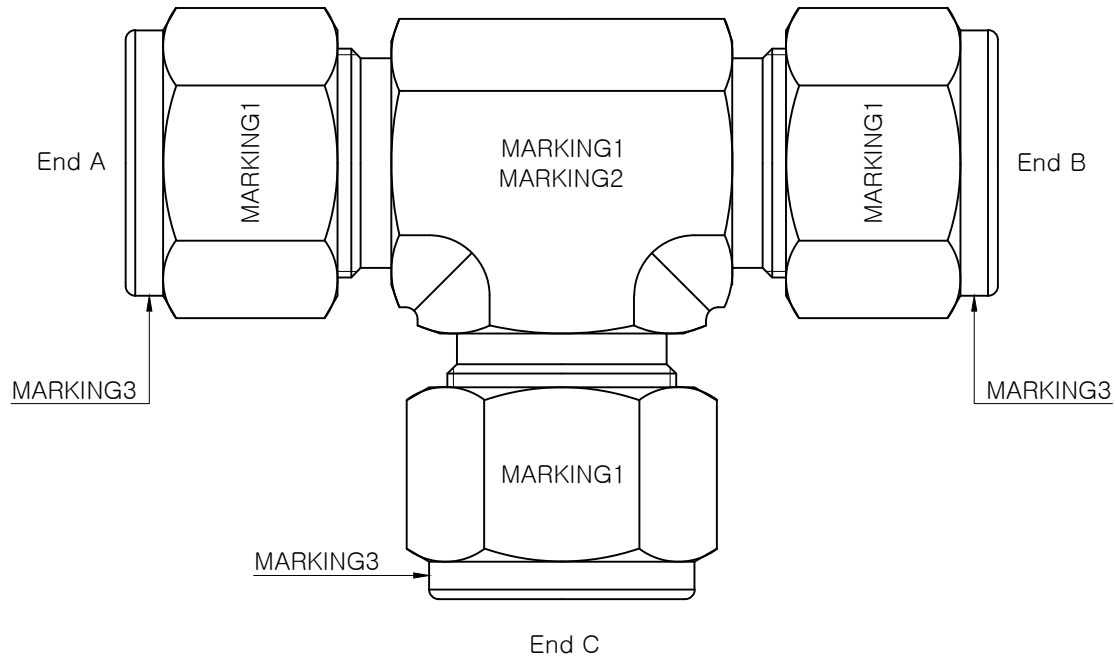
- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : [MAT'L] [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2 : PRESS MARKING
 MARKING3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|------------|--|
| APPROVED | | TITLE DL / DK-LOK TUBE FITTING UNION ELBOW |
| REVIEWED | | |
| DESIGNED | | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DL | IDK-LOK Fittings & Valves |

| ASSY Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|---------------|-----|---------------|-------------------|------|
| DT-XX-SA | 1 | BODY | ASTM A182 F316 | 1 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 3 |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 3 |
| | 4 | NUT | ASTM A276 TYPE316 | 3 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size Tube O.D B | End Size Tube O.D C |
|----------|---------------------------|---------------------------|---------------------------|
| DT-1 | 1/16" | 1/16" | 1/16" |
| DT-2 | 1/8" | 1/8" | 1/8" |
| DT-3 | 3/16" | 3/16" | 3/16" |
| DT-4 | 1/4" | 1/4" | 1/4" |
| DT-5 | 5/16" | 5/16" | 5/16" |
| DT-6 | 3/8" | 3/8" | 3/8" |
| DT-8 | 1/2" | 1/2" | 1/2" |
| DT-10 | 5/8" | 5/8" | 5/8" |
| DT-12 | 3/4" | 3/4" | 3/4" |
| DT-14 | 7/8" | 7/8" | 7/8" |
| DT-16 | 1" | 1" | 1" |
| DT-2M | 2mm | 2mm | 2mm |
| DT-3M | 3mm | 3mm | 3mm |
| DT-4M | 4mm | 4mm | 4mm |
| DT-6M | 6mm | 6mm | 6mm |
| DT-8M | 8mm | 8mm | 8mm |
| DT-10M | 10mm | 10mm | 10mm |
| DT-12M | 12mm | 12mm | 12mm |
| DT-15M | 15mm | 15mm | 15mm |
| DT-16M | 16mm | 16mm | 16mm |
| DT-18M | 18mm | 18mm | 18mm |
| DT-20M | 20mm | 20mm | 20mm |
| DT-22M | 22mm | 22mm | 22mm |
| DT-25M | 25mm | 25mm | 25mm |



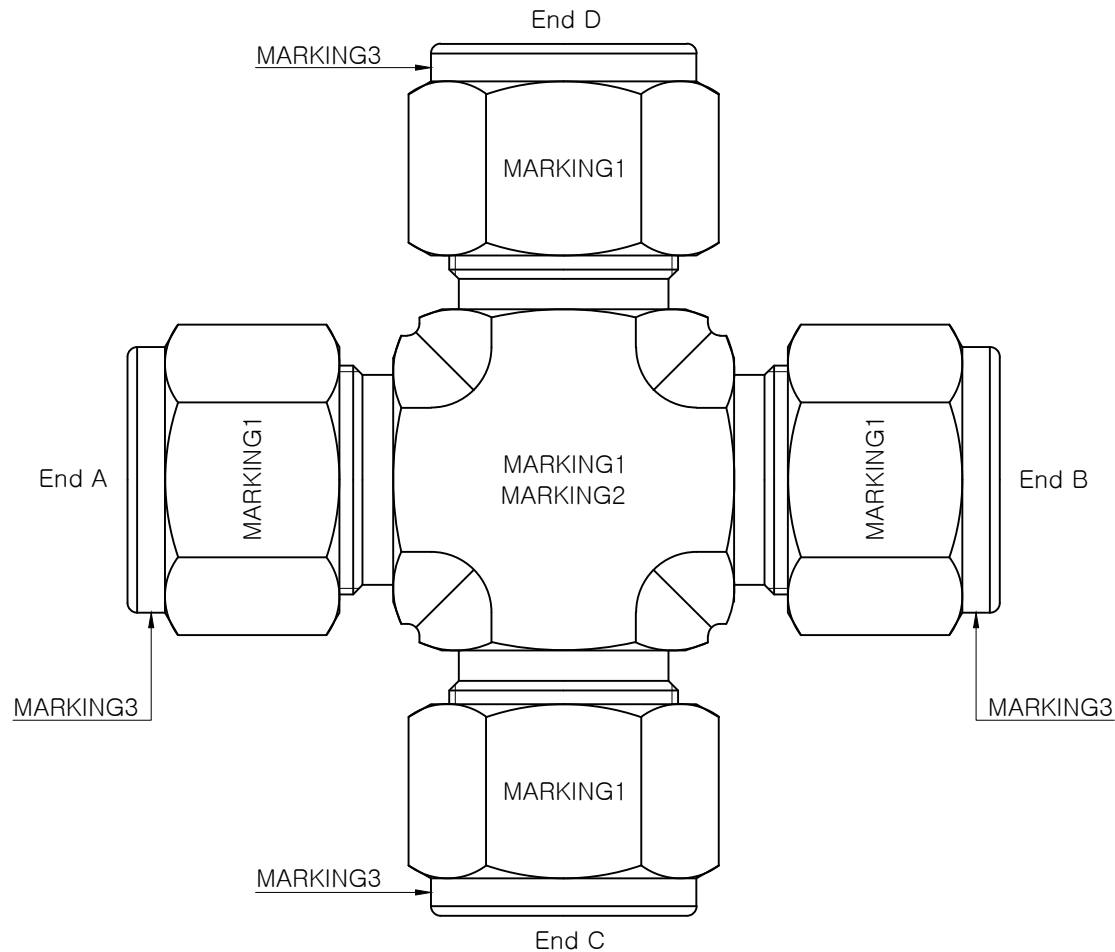
* SPECIFICATION

- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : [MAT'L] [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2 : PRESS MARKING
 MARKING3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|------------|--|
| APPROVED | | TITLE DT / DK-LOK TUBE FITTING UNION TEE |
| REVIEWED | | |
| DESIGNED | | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DT | IDK-LOK Fittings & Valves |

| ASSY Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|---------------|-----|---------------|-------------------|------|
| DX-XX-SA | 1 | BODY | ASTM A182 F316 | 1 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 4 |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 4 |
| | 4 | NUT | ASTM A276 TYPE316 | 4 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |



| Part No. | End Size Tube O.D A | End Size Tube O.D B | End Size Tube O.D C | End Size Tube O.D D |
|----------|---------------------|---------------------|---------------------|---------------------|
| DX-1 | 1/16" | 1/16" | 1/16" | 1/16" |
| DX-2 | 1/8" | 1/8" | 1/8" | 1/8" |
| DX-3 | 3/16" | 3/16" | 3/16" | 3/16" |
| DX-4 | 1/4" | 1/4" | 1/4" | 1/4" |
| DX-5 | 5/16" | 5/16" | 5/16" | 5/16" |
| DX-6 | 3/8" | 3/8" | 3/8" | 3/8" |
| DX-8 | 1/2" | 1/2" | 1/2" | 1/2" |
| DX-10 | 5/8" | 5/8" | 5/8" | 5/8" |
| DX-12 | 3/4" | 3/4" | 3/4" | 3/4" |
| DX-14 | 7/8" | 7/8" | 7/8" | 7/8" |
| DX-16 | 1" | 1" | 1" | 1" |
| DX-3M | 3mm | 3mm | 3mm | 3mm |
| DX-4M | 4mm | 4mm | 4mm | 4mm |
| DX-6M | 6mm | 6mm | 6mm | 6mm |
| DX-8M | 8mm | 8mm | 8mm | 8mm |
| DX-10M | 10mm | 10mm | 10mm | 10mm |
| DX-12M | 12mm | 12mm | 12mm | 12mm |
| DX-15M | 15mm | 15mm | 15mm | 15mm |
| DX-16M | 16mm | 16mm | 16mm | 16mm |
| DX-18M | 18mm | 18mm | 18mm | 18mm |
| DX-20M | 20mm | 20mm | 20mm | 20mm |
| DX-22M | 22mm | 22mm | 22mm | 22mm |
| DX-25M | 25mm | 25mm | 25mm | 25mm |

* SPECIFICATION

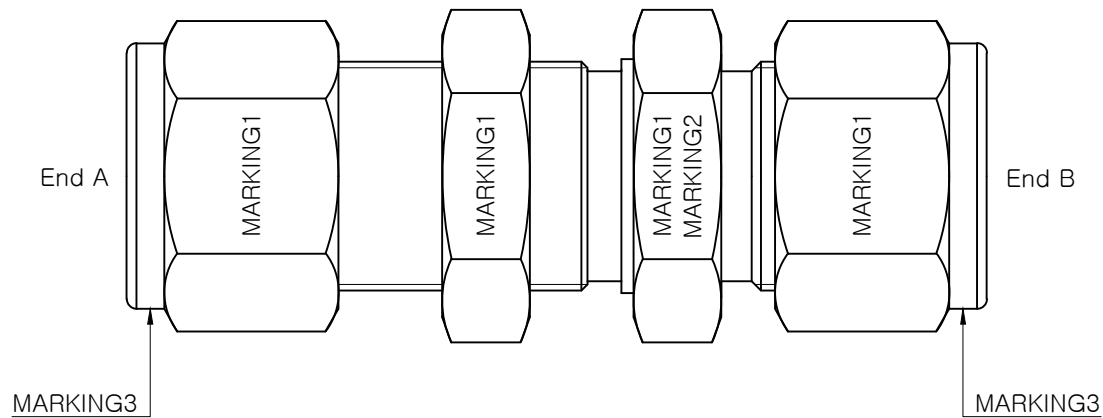
- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : [MAT'L] [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2 : PRESS MARKING
 MARKING3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|------------|---|
| APPROVED | | TITLE DX / DK-LOK TUBE FITTING UNION CROSS |
| REVIEWED | | |
| DESIGNED | | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DX | IDK-LOK Fittings & Valves |

| ASSY Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|---------------|-----|------------------|-------------------|------|
| DUB-XX-SA | 1 | BODY | ASTM A276 TYPE316 | 1 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 2 |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 2 |
| | 4 | NUT | ASTM A276 TYPE316 | 2 |
| | 5 | BULKHEAD LOCKNUT | ASTM A276 TYPE316 | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size Tube O.D B |
|----------|------------------------|------------------------|
| DUB-1 | 1/16" | 1/16" |
| DUB-2 | 1/8" | 1/8" |
| DUB-3 | 3/16" | 3/16" |
| DUB-4 | 1/4" | 1/4" |
| DUB-5 | 5/16" | 5/16" |
| DUB-6 | 3/8" | 3/8" |
| DUB-8 | 1/2" | 1/2" |
| DUB-10 | 5/8" | 5/8" |
| DUB-12 | 3/4" | 3/4" |
| DUB-14 | 7/8" | 7/8" |
| DUB-16 | 1" | 1" |
| DUB-3M | 3mm | 3mm |
| DUB-4M | 4mm | 4mm |
| DUB-6M | 6mm | 6mm |
| DUB-8M | 8mm | 8mm |
| DUB-10M | 10mm | 10mm |
| DUB-12M | 12mm | 12mm |
| DUB-15M | 15mm | 15mm |
| DUB-16M | 16mm | 16mm |
| DUB-18M | 18mm | 18mm |
| DUB-20M | 20mm | 20mm |
| DUB-22M | 22mm | 22mm |
| DUB-25M | 25mm | 25mm |



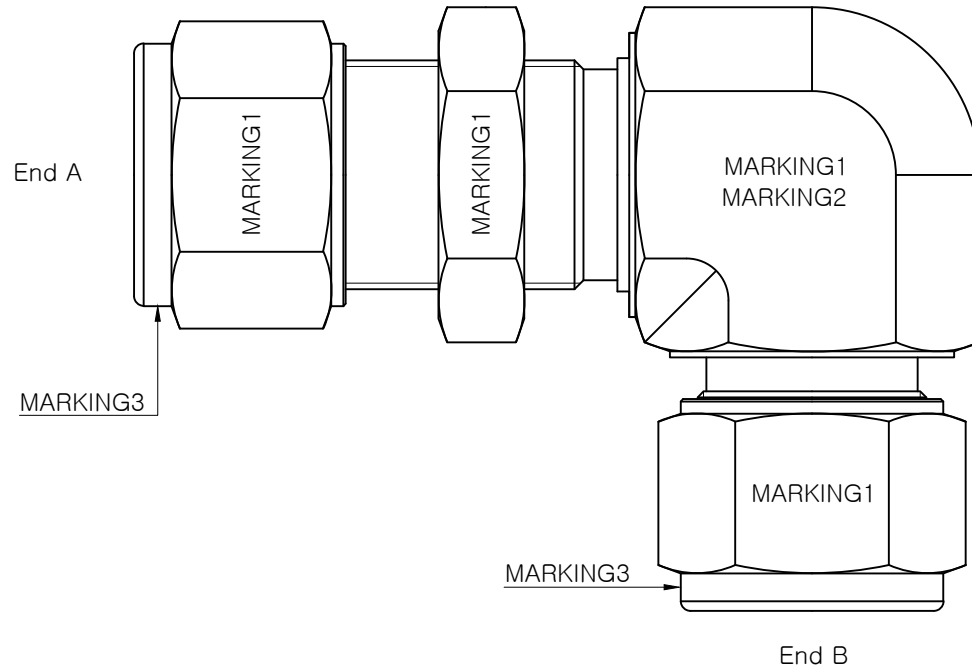
* SPECIFICATION

- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : DK-Lok [MAT'L] [HCN]
 MARKING3 : DK-Lok MAT'L SIZE S.KOREA HCN
- MARKING METHOD
 MARKING1, 2 : LASER MARKING
 MARKING3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|------------|--|
| APPROVED | | TITLE DUB / DK-LOK TUBE FITTING BULKHEAD UNION |
| REVIEWED | | |
| DESIGNED | | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DUB | IDK-LOK Fittings & Valves |

| ASSY Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|---------------|-----|------------------|-------------------|------|
| DBL-XX-SA | 1 | BODY | ASTM A182 F316 | 1 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 2 |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 2 |
| | 4 | NUT | ASTM A276 TYPE316 | 2 |
| | 5 | BULKHEAD LOCKNUT | ASTM A276 TYPE316 | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |



| Part No. | End Size Tube O.D A | End Size Tube O.D B |
|----------|------------------------|------------------------|
| DLB-6M | 6mm | 6mm |
| DLB-8M | 8mm | 8mm |
| DLB-10M | 10mm | 10mm |
| DLB-12M | 12mm | 12mm |
| DLB-16M | 16mm | 16mm |

* SPECIFICATION

- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : [MAT'L] [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2 : PRESS MARKING
 MARKING3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

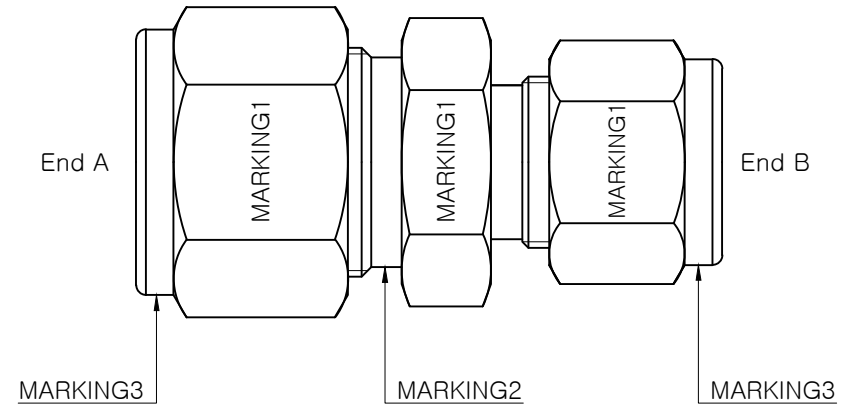
| | | |
|----------|------------|--|
| APPROVED | | TITLE DBL / DK-LOK TUBE FITTING BULKHEAD ELBOW UNION |
| REVIEWED | | |
| DESIGNED | | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DBL | IDK-LOK Fittings & Valves |

| ASSY Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY | REV. NO. | REVISION NOTES | DATE |
|---------------|-----|---------------|-------------------|------|----------|---------------------|------------|
| DURXX-XX-SA | 1 | BODY | ASTM A276 TYPE316 | 1 | 0 | ISSUED FOR APPROVAL | 2022.04.15 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 1 | | | |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 1 | | | |
| | 4 | NUT | ASTM A276 TYPE316 | 1 | | | |
| | 5 | FRONT FERRULE | ASTM A479 TYPE316 | 1 | | | |
| | 6 | BACK FERRULE | ASTM A479 TYPE316 | 1 | | | |
| | 7 | NUT | ASTM A276 TYPE316 | 1 | | | |

* SPECIFICATION
1. MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
MARKING2 : DK-Lok [MAT'L] [HCN]
MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
2. MARKING METHOD
MARKING1 : LASER MARKING
MARKING2, 3 : ROLL MARKING
3. SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

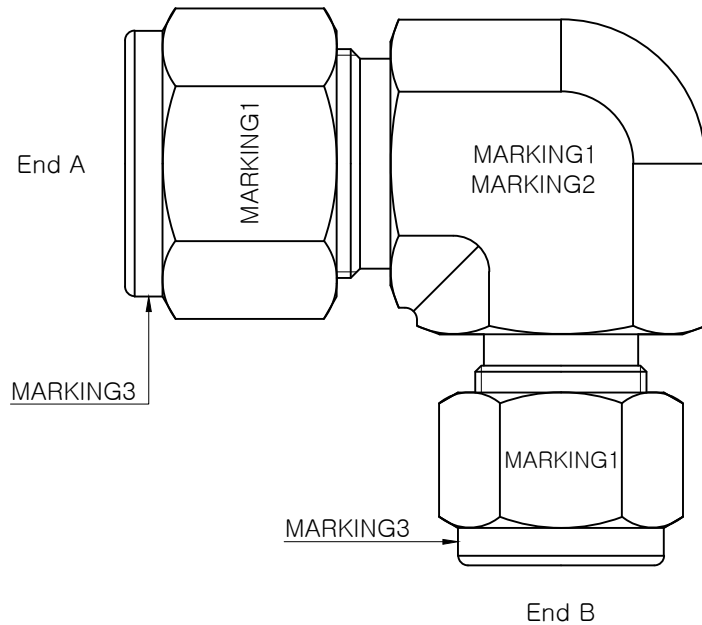
| Part No. | End Size Tube O.D A | End Size Tube O.D B |
|----------|---------------------|---------------------|
| DUR2-1 | 1/8" | 1/16" |
| DUR3-1 | 3/16" | 1/16" |
| DUR3-2 | 3/16" | 1/8" |
| DUR4-1 | 1/4" | 1/16" |
| DUR4-2 | 1/4" | 1/8" |
| DUR4-3 | 1/4" | 3/16" |
| DUR5-2 | 5/16" | 1/8" |
| DUR5-4 | 5/16" | 1/4" |
| DUR6-1 | 3/8" | 1/16" |
| DUR6-2 | 3/8" | 1/8" |
| DUR6-4 | 3/8" | 1/4" |
| DUR6-5 | 3/8" | 5/16" |
| DUR8-2 | 1/2" | 1/8" |
| DUR8-4 | 1/2" | 1/4" |
| DUR8-6 | 1/2" | 3/8" |
| DUR10-6 | 5/8" | 3/8" |
| DUR10-8 | 5/8" | 1/2" |
| DUR12-4 | 3/4" | 1/4" |
| DUR12-6 | 3/4" | 3/8" |
| DUR12-8 | 3/4" | 1/2" |
| DUR12-10 | 3/4" | 5/8" |
| DUR16-8 | 1" | 1/2" |
| DUR16-12 | 1" | 3/4" |

| Part No. | End Size Tube O.D A | End Size Tube O.D B |
|------------|---------------------|---------------------|
| DUR3M-2M | 3mm | 2mm |
| DUR6M-2M | 6mm | 2mm |
| DUR6M-3M | 6mm | 3mm |
| DUR6M-4M | 6mm | 4mm |
| DUR8M-6M | 8mm | 6mm |
| DUR10M-3M | 10mm | 3mm |
| DUR10M-4M | 10mm | 4mm |
| DUR10M-6M | 10mm | 6mm |
| DUR10M-8M | 10mm | 8mm |
| DUR12M-6M | 12mm | 6mm |
| DUR12M-8M | 12mm | 8mm |
| DUR12M-10M | 12mm | 10mm |
| DUR15M-12M | 15mm | 12mm |
| DUR16M-10M | 16mm | 10mm |
| DUR16M-12M | 16mm | 12mm |
| DUR18M-10M | 18mm | 10mm |
| DUR18M-12M | 18mm | 12mm |
| DUR25M-18M | 25mm | 18mm |
| DUR25M-20M | 25mm | 20mm |



| | | |
|----------|--------------------|--|
| APPROVED | <i>[Signature]</i> | TITLE DUR / DK-LOK TUBE FITTING REDUCING UNION |
| REVIEWED | | |
| DESIGNED | <i>X.H Lee</i> | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DUR | IDK-LOK Fittings & Valves |

| ASSY Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY | REV. NO. | REVISION NOTES | DATE |
|---------------|-----|---------------|-------------------|------|----------|---------------------|------------|
| DLRXX-XX-SA | 1 | BODY | ASTM A182 F316 | 1 | 0 | ISSUED FOR APPROVAL | 2022.04.15 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 1 | | | |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 1 | | | |
| | 4 | NUT | ASTM A276 TYPE316 | 1 | | | |
| | 5 | FRONT FERRULE | ASTM A479 TYPE316 | 1 | | | |
| | 6 | BACK FERRULE | ASTM A479 TYPE316 | 1 | | | |
| | 7 | NUT | ASTM A276 TYPE316 | 1 | | | |



| Part No. | End Size Tube O.D A | End Size Tube O.D B |
|----------|---------------------------|---------------------------|
| DLR2-1 | 1/8" | 1/16" |
| DLR4-2 | 1/4" | 1/8" |
| DLR6-4 | 3/8" | 1/4" |
| DLR8-4 | 1/2" | 1/4" |
| DLR8-6 | 1/2" | 3/8" |
| DLR8M-4 | 8mm | 1/4" |

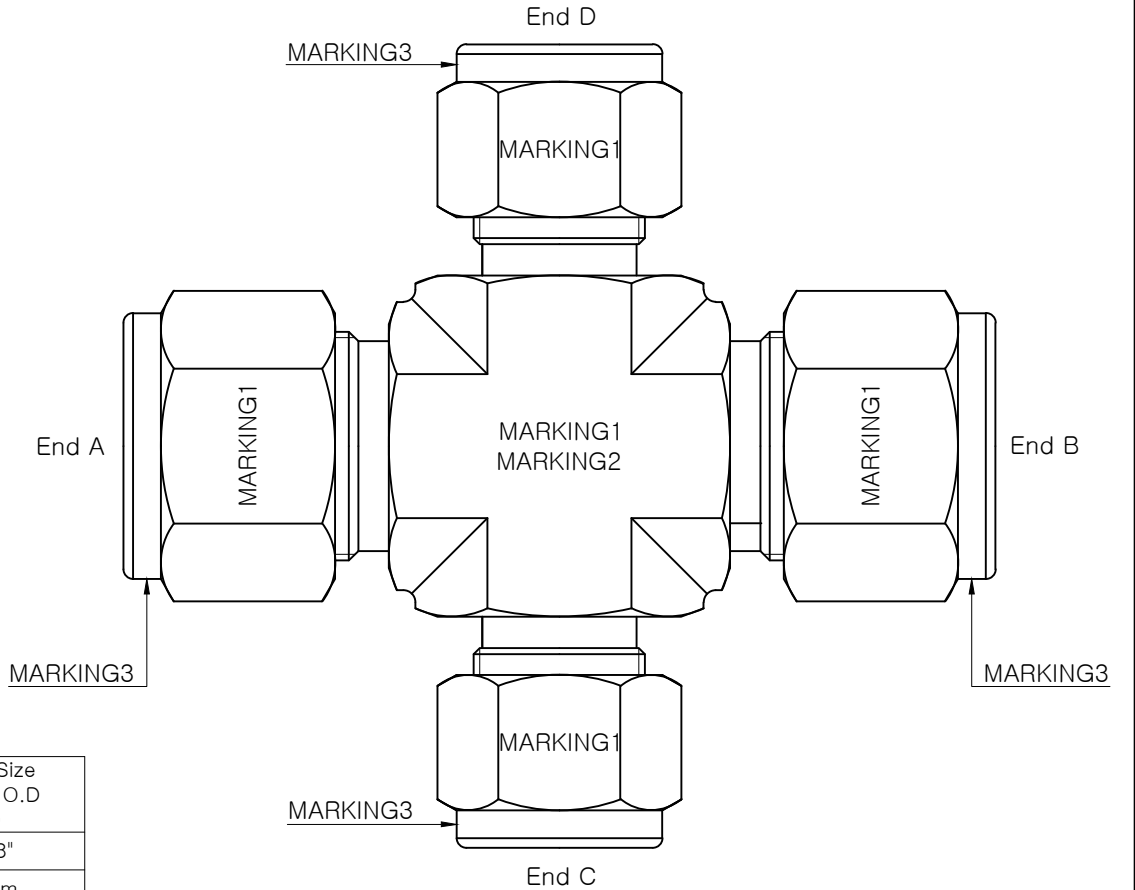
* SPECIFICATION

- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : [MAT'L] [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2 : PRESS MARKING
 MARKING3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|------------|--|
| APPROVED | | TITLE DLR / DK-LOK TUBE FITTING REDUCING UNION ELBOW |
| REVIEWED | | |
| DESIGNED | | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DLR | IDK-LOK Fittings & Valves |

| ASSY Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|-------------------|-----|---------------|-------------------|------|
| DXRXX-XX-XX-XX-SA | 1 | BODY | ASTM A182 F316 | 1 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 1 |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 1 |
| | 4 | NUT | ASTM A276 TYPE316 | 1 |
| | 5 | FRONT FERRULE | ASTM A479 TYPE316 | 1 |
| | 6 | BACK FERRULE | ASTM A479 TYPE316 | 1 |
| | 7 | NUT | ASTM A276 TYPE316 | 1 |
| | 8 | FRONT FERRULE | ASTM A479 TYPE316 | 1 |
| | 9 | BACK FERRULE | ASTM A479 TYPE316 | 1 |
| | 10 | NUT | ASTM A276 TYPE316 | 1 |
| | 11 | FRONT FERRULE | ASTM A479 TYPE316 | 1 |
| | 12 | BACK FERRULE | ASTM A479 TYPE316 | 1 |
| | 13 | NUT | ASTM A276 TYPE316 | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |



| Part No. | End Size Tube O.D A | End Size Tube O.D B | End Size Tube O.D C | End Size Tube O.D D |
|-----------------|---------------------------|---------------------------|---------------------------|---------------------------|
| DXR12-12-6-6 | 3/4" | 3/4" | 3/8" | 3/8" |
| DXR16M-6M-6M-6M | 16mm | 6mm | 6mm | 6mm |

* SPECIFICATION

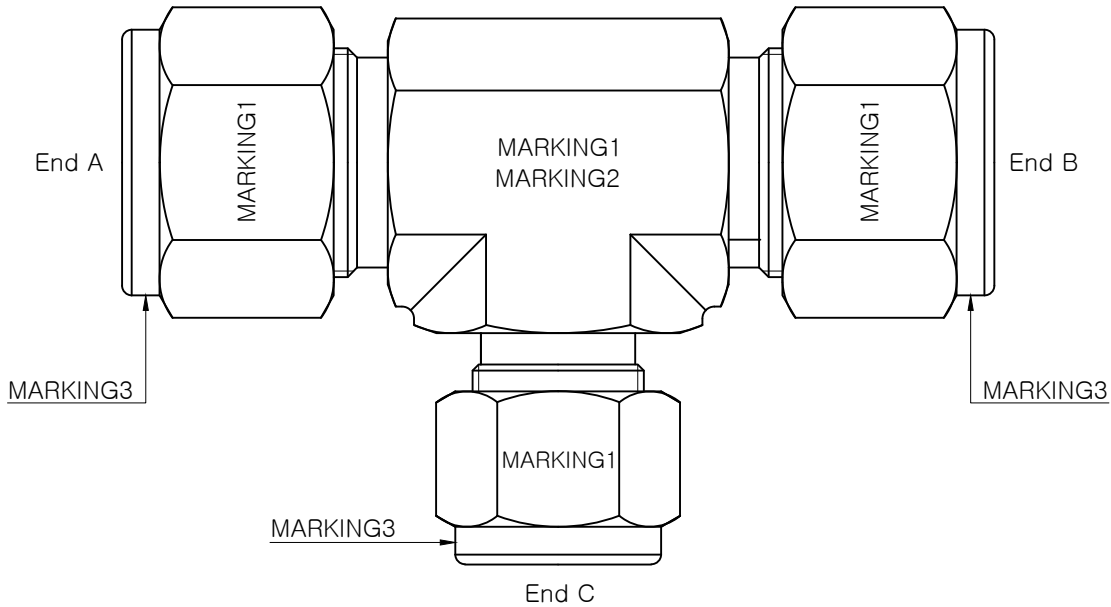
- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : [MAT'L] [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2 : PRESS MARKING
 MARKING3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|------------|--|
| APPROVED | | TITLE DXR / DK-LOK TUBE FITTING REDUCING UNION CROSS |
| REVIEWED | | |
| DESIGNED | | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DXR | IDK-LOK Fittings & Valves |

| ASSY Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|---------------|-------------------|------|
| DTRXX-XX-XX-SA | 1 | BODY | ASTM A182 F316 | 1 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 1 |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 1 |
| | 4 | NUT | ASTM A276 TYPE316 | 1 |
| | 5 | FRONT FERRULE | ASTM A479 TYPE316 | 1 |
| | 6 | BACK FERRULE | ASTM A479 TYPE316 | 1 |
| | 7 | NUT | ASTM A276 TYPE316 | 1 |
| | 8 | FRONT FERRULE | ASTM A479 TYPE316 | 1 |
| | 9 | BACK FERRULE | ASTM A479 TYPE316 | 1 |
| | 10 | NUT | ASTM A276 TYPE316 | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size Tube O.D B | End Size Tube O.D C |
|-------------|---------------------------|---------------------------|---------------------------|
| DTR4-4-2 | 1/4" | 1/4" | 1/8" |
| DTR4-4-6 | 1/4" | 1/4" | 3/8" |
| DTR4-8-8 | 1/4" | 1/2" | 1/2" |
| DTR6-4-6 | 3/8" | 1/4" | 3/8" |
| DTR6-6-4 | 3/8" | 3/8" | 1/4" |
| DTR6-6-8 | 3/8" | 3/8" | 1/2" |
| DTR8-4-6 | 1/2" | 1/4" | 3/8" |
| DTR8-4-8 | 1/2" | 1/4" | 1/2" |
| DTR8-6-6 | 1/2" | 3/8" | 3/8" |
| DTR8-8-4 | 1/2" | 1/2" | 1/4" |
| DTR8-8-6 | 1/2" | 1/2" | 3/8" |
| DTR10-10-6 | 5/8" | 5/8" | 3/8" |
| DTR12-8-12 | 3/4" | 1/2" | 3/4" |
| DTR12-12-4 | 3/4" | 3/4" | 1/4" |
| DTR12-12-6 | 3/4" | 3/4" | 3/8" |
| DRT12-12-8 | 3/4" | 3/4" | 1/2" |
| DTR12-12-16 | 3/4" | 3/4" | 1" |
| DTR12-12-20 | 3/4" | 3/4" | 1-1/4" |
| DTR14-14-8 | 7/8" | 7/8" | 1/2" |
| DTR16-12-12 | 1" | 3/4" | 3/4" |
| DTR16-16-4 | 1" | 1" | 1/4" |
| DTR16-16-6 | 1" | 1" | 3/8" |
| DTR16-16-8 | 1" | 1" | 1/2" |
| DTR16-16-12 | 1" | 1" | 3/4" |



* SPECIFICATION

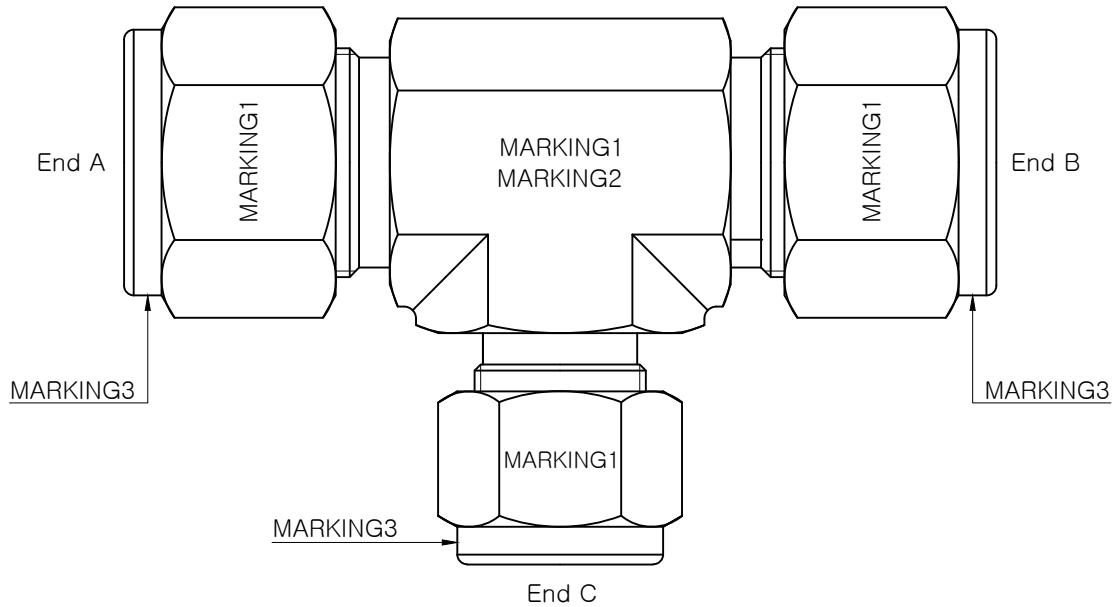
- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : [MAT'L] [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2 : PRESS MARKING
 MARKING3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|------------|--|
| APPROVED | | TITLE DTR / DK-LOK TUBE FITTING REDUCING UNION TEE |
| REVIEWED | | |
| DESIGNED | | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DTR | IDK-LOK Fittings & Valves |

| ASSY Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|---------------|-------------------|------|
| DTRXX-XX-XX-SA | 1 | BODY | ASTM A182 F316 | 1 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 1 |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 1 |
| | 4 | NUT | ASTM A276 TYPE316 | 1 |
| | 5 | FRONT FERRULE | ASTM A479 TYPE316 | 1 |
| | 6 | BACK FERRULE | ASTM A479 TYPE316 | 1 |
| | 7 | NUT | ASTM A276 TYPE316 | 1 |
| | 8 | FRONT FERRULE | ASTM A479 TYPE316 | 1 |
| | 9 | BACK FERRULE | ASTM A479 TYPE316 | 1 |
| | 10 | NUT | ASTM A276 TYPE316 | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size Tube O.D B | End Size Tube O.D C |
|----------------|---------------------------|---------------------------|---------------------------|
| DTR3M-3M-6M | 3mm | 3mm | 6mm |
| DTR8M-8M-6M | 8mm | 8mm | 6mm |
| DTR10M-10M-6M | 10mm | 10mm | 6mm |
| DTR10M-10M-12M | 10mm | 10mm | 12mm |
| DTR12M-6M-10M | 12mm | 6mm | 10mm |
| DTR12M-6M-12M | 12mm | 6mm | 12mm |
| DTR12M-10M-10M | 12mm | 10mm | 10mm |
| DTR12M-12M-10M | 12mm | 12mm | 10mm |
| DTR12M-12M-6M | 12mm | 12mm | 6mm |
| DTR15M-15M-12M | 15mm | 15mm | 12mm |
| DTR16M-16M-12M | 16mm | 16mm | 12mm |
| DTR18M-18M-12M | 18mm | 18mm | 12mm |
| DTR20M-12M-20M | 20mm | 12mm | 20mm |
| DTR20M-20M-6M | 20mm | 20mm | 6mm |
| DTR20M-20M-10M | 20mm | 20mm | 10mm |
| DTR20M-20M-12M | 20mm | 20mm | 12mm |
| DTR20M-20M-25M | 20mm | 20mm | 25mm |
| DTR22M-22M-12M | 22mm | 22mm | 12mm |
| DTR25M-20M-20M | 25mm | 20mm | 20mm |
| DTR25M-25M-10M | 25mm | 25mm | 10mm |
| DTR25M-25M-12M | 25mm | 25mm | 12mm |
| DTR25M-25M-20M | 25mm | 25mm | 20mm |



* SPECIFICATION

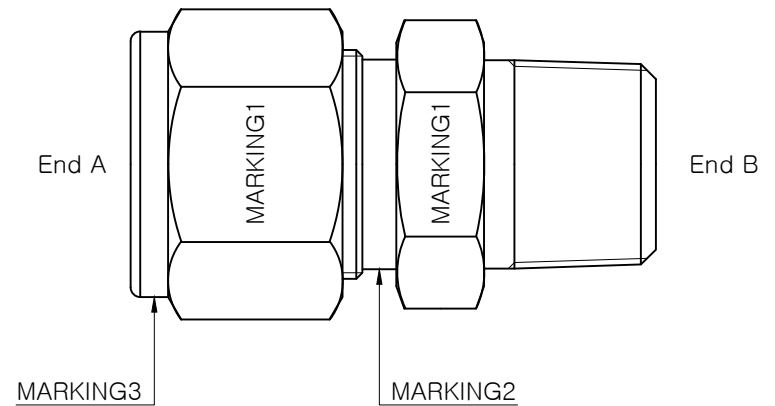
- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : [MAT'L] [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2 : PRESS MARKING
 MARKING3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|------------|--|
| APPROVED | | TITLE DTR / DK-LOK TUBE FITTING REDUCING UNION TEE |
| REVIEWED | | |
| DESIGNED | | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DTR | IDK-LOK Fittings & Valves |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY | REV. NO. | REVISION NOTES | DATE |
|----------------|-----|---------------|-------------------|------|----------|---------------------|------------|
| DMCXX-XXN-SA | 1 | BODY | ASTM A276 TYPE316 | 1 | 0 | ISSUED FOR APPROVAL | 2022.04.15 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 1 | | | |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 1 | | | |
| | 4 | NUT | ASTM A276 TYPE316 | 1 | | | |

| Part No. | End Size Tube O.D A | End Size NPT THREAD B |
|----------|---------------------------|-----------------------------|
| DMC1-1N | 1/16" | 1/16" |
| DMC1-2N | 1/16" | 1/8" |
| DMC1-4N | 1/16" | 1/4" |
| DMC2-1N | 1/8" | 1/16" |
| DMC2-2N | 1/8" | 1/8" |
| DMC2-4N | 1/8" | 1/4" |
| DMC2-6N | 1/8" | 3/8" |
| DMC2-8N | 1/8" | 1/2" |
| DMC3-2N | 3/16" | 1/8" |
| DMC3-4N | 3/16" | 1/4" |
| DMC4-1N | 1/4" | 1/16" |
| DMC4-2N | 1/4" | 1/8" |
| DMC4-4N | 1/4" | 1/4" |
| DMC4-6N | 1/4" | 3/8" |
| DMC4-8N | 1/4" | 1/2" |
| DMC4-12N | 1/4" | 3/4" |
| DMC5-2N | 5/16" | 1/8" |
| DMC5-4N | 5/16" | 1/4" |
| DMC5-6N | 5/16" | 3/8" |
| DMC5-8N | 5/16" | 1/2" |
| DMC6-2N | 3/8" | 1/8" |
| DMC6-4N | 3/8" | 1/4" |
| DMC6-6N | 3/8" | 3/8" |
| DMC6-8N | 3/8" | 1/2" |

| Part No. | End Size Tube O.D A | End Size NPT THREAD B |
|-----------|---------------------------|-----------------------------|
| DMC6-12N | 3/8" | 3/4" |
| DMC6-16N | 3/8" | 1" |
| DMC8-2N | 1/2" | 1/8" |
| DMC8-4N | 1/2" | 1/4" |
| DMC8-6N | 1/2" | 3/8" |
| DMC8-8N | 1/2" | 1/2" |
| DMC8-12N | 1/2" | 3/4" |
| DMC8-16N | 1/2" | 1" |
| DMC10-4N | 5/8" | 1/4" |
| DMC10-6N | 5/8" | 3/8" |
| DMC10-8N | 5/8" | 1/2" |
| DMC10-12N | 5/8" | 3/4" |
| DMC12-6N | 3/4" | 3/8" |
| DMC12-8N | 3/4" | 1/2" |
| DMC12-12N | 3/4" | 3/4" |
| DMC12-16N | 3/4" | 1" |
| DMC14-8N | 7/8" | 1/2" |
| DMC14-12N | 7/8" | 3/4" |
| DMC14-16N | 7/8" | 1" |
| DMC16-6N | 1" | 3/8" |
| DMC16-8N | 1" | 1/2" |
| DMC16-12N | 1" | 3/4" |
| DMC16-16N | 1" | 1" |



* SPECIFICATION

1. MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]

MARKING2 : DK-Lok [MAT'L] [HCN]

MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]

2. MARKING METHOD

MARKING1 : LASER MARKING

MARKING2, 3 : ROLL MARKING

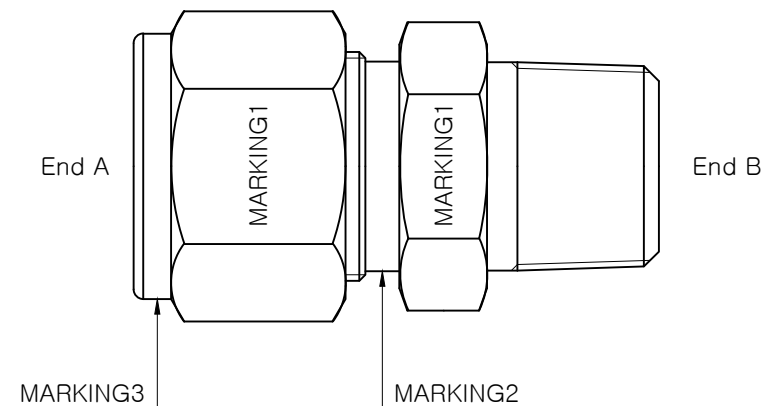
3. SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|------------|--|
| APPROVED | | TITLE DMC-N / DK-LOK TUBE FITTING MALE CONNECTOR |
| REVIEWED | | |
| DESIGNED | X.H Lee | |
| SCALE | N/S | |
| DATE | 2022.04.15 | Fittings & Valves |
| DWG. NO. | DMC-N | |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY | REV. NO. | REVISION NOTES | DATE |
|----------------|-----|---------------|-------------------|------|----------|---------------------|------------|
| DMCXX-XXN-SA | 1 | BODY | ASTM A276 TYPE316 | 1 | 0 | ISSUED FOR APPROVAL | 2022.04.15 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 1 | | | |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 1 | | | |
| | 4 | NUT | ASTM A276 TYPE316 | 1 | | | |

| Part No. | End Size Tube O.D A | End Size NPT THREAD B |
|------------|---------------------------|-----------------------------|
| DMC2M-2N | 2mm | 1/8" |
| DMC3M-2N | 3mm | 1/8" |
| DMC3M-4N | 3mm | 1/4" |
| DMC4M-2N | 4mm | 1/8" |
| DMC4M-4N | 4mm | 1/4" |
| DMC6M-2N | 6mm | 1/8" |
| DMC6M-4N | 6mm | 1/4" |
| DMC6M-6N | 6mm | 3/8" |
| DMC6M-8N | 6mm | 1/2" |
| DMC8M-2N | 8mm | 1/8" |
| DMC8M-4N | 8mm | 1/4" |
| DMC8M-6N | 8mm | 3/8" |
| DMC8M-8N | 8mm | 1/2" |
| DMC10M-2N | 10mm | 1/8" |
| DMC10M-4N | 10mm | 1/4" |
| DMC10M-6N | 10mm | 3/8" |
| DMC10M-8N | 10mm | 1/2" |
| DMC10M-12N | 10mm | 3/4" |
| DMC12M-2N | 12mm | 1/8" |
| DMC12M-4N | 12mm | 1/4" |

| Part No. | End Size Tube O.D A | End Size NPT THREAD B |
|------------|---------------------------|-----------------------------|
| DMC12M-6N | 12mm | 3/8" |
| DMC12M-8N | 12mm | 1/2" |
| DMC12M-12N | 12mm | 3/4" |
| DMC14M-4N | 14mm | 1/4" |
| DMC14M-6N | 14mm | 3/8" |
| DMC14M-8N | 14mm | 1/2" |
| DMC15M-8N | 15mm | 1/2" |
| DMC16M-4N | 16mm | 1/4" |
| DMC16M-6N | 16mm | 3/8" |
| DMC16M-8N | 16mm | 1/2" |
| DMC16M-12N | 16mm | 3/4" |
| DMC18M-8N | 18mm | 1/2" |
| DMC18M-12N | 18mm | 3/4" |
| DMC20M-8N | 20mm | 1/2" |
| DMC20M-12N | 20mm | 3/4" |
| DMC22M-12N | 22mm | 3/4" |
| DMC22M-16N | 22mm | 1" |
| DMC25M-8N | 25mm | 1/2" |
| DMC25M-12N | 25mm | 3/4" |
| DMC25M-16N | 25mm | 1" |



* SPECIFICATION

1. MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]

MARKING2 : DK-Lok [MAT'L] [HCN]


MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]

2. MARKING METHOD

MARKING1 : LASER MARKING

MARKING2, 3 : ROLL MARKING

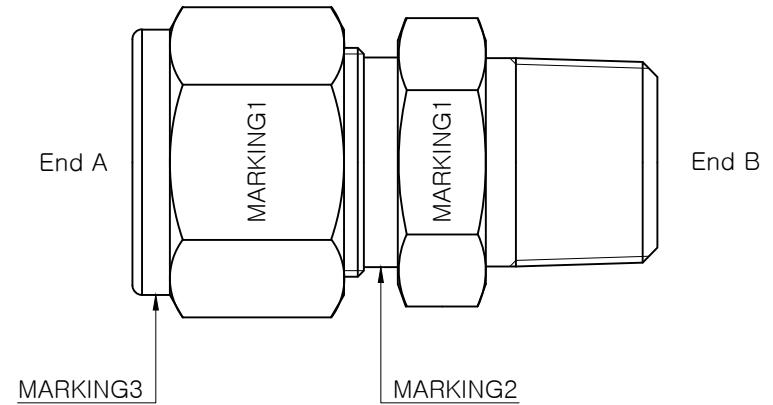
3. SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|--------------------|---|
| APPROVED | <i>[Signature]</i> | TITLE DMC-N / DK-LOK TUBE FITTING MALE CONNECTOR |
| REVIEWED | | |
| DESIGNED | <i>X.H Lee</i> | |
| SCALE | N/S | |
| DATE | 2022.04.15 |  <i>Fittings & Valves</i> |
| DWG. NO. | DMC-N | |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|---------------|-------------------|------|
| DMCXX-XXR-SA | 1 | BODY | ASTM A276 TYPE316 | 1 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 1 |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 1 |
| | 4 | NUT | ASTM A276 TYPE316 | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size PT THREAD B |
|-----------|------------------------|-------------------------|
| DMC2-2R | 1/8" | 1/8" |
| DMC2-4R | 1/8" | 1/4" |
| DMC4-2R | 1/4" | 1/8" |
| DMC4-4R | 1/4" | 1/4" |
| DMC4-6R | 1/4" | 3/8" |
| DMC4-8R | 1/4" | 3/8" |
| DMC5-2R | 5/16" | 1/8" |
| DMC5-4R | 5/16" | 1/4" |
| DMC5-16R | 5/16" | 1" |
| DMC6-2R | 3/8" | 1/8" |
| DMC6-4R | 3/8" | 1/4" |
| DMC6-6R | 3/8" | 3/8" |
| DMC6-8R | 3/8" | 1/2" |
| DMC6-12R | 3/8" | 3/4" |
| DMC8-2R | 1/2" | 1/8" |
| DMC8-4R | 1/2" | 1/4" |
| DMC8-6R | 1/2" | 3/8" |
| DMC8-8R | 1/2" | 1/2" |
| DMC8-12R | 1/2" | 3/4" |
| DMC8-16R | 1/2" | 1" |
| DMC10-6R | 5/8" | 3/8" |
| DMC10-8R | 5/8" | 1/2" |
| DMC10-12R | 5/8" | 3/4" |
| DMC12-8R | 3/4" | 1/2" |
| DMC12-12R | 3/4" | 3/4" |
| DMC12-16R | 3/4" | 1" |
| DMC16-12R | 1" | 3/4" |
| DMC16-16R | 1" | 1" |



* SPECIFICATION

1. MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.]

P36 / H35 [SERIAL NO.]

MARKING2 : DK-Lok [MAT'L] R [HCN]

MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]

2. MARKING METHOD

MARKING1 : LASER MARKING

MARKING2, 3 : ROLL MARKING

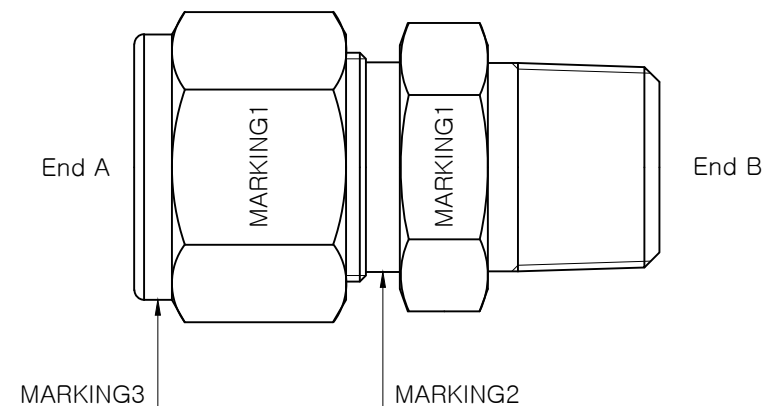
3. SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|------------|---|
| APPROVED | | TITLE |
| REVIEWED | | |
| DESIGNED | | DMC-R / DK-LOK TUBE FITTING MALE CONNECTOR |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DMC-R | Fittings & Valves |
| | | |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY | REV. NO. | REVISION NOTES | DATE |
|----------------|-----|---------------|-------------------|------|----------|---------------------|------------|
| DMCXX-XXR-SA | 1 | BODY | ASTM A276 TYPE316 | 1 | 0 | ISSUED FOR APPROVAL | 2022.04.15 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 1 | | | |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 1 | | | |
| | 4 | NUT | ASTM A276 TYPE316 | 1 | | | |

| Part No. | End Size Tube O.D A | End Size PT THREAD B |
|------------|---------------------------|----------------------------|
| DMC2M-2R | 2mm | 1/8" |
| DMC3M-2R | 3mm | 1/8" |
| DMC3M-4R | 3mm | 1/4" |
| DMC4M-2R | 4mm | 1/8" |
| DMC4M-4R | 4mm | 1/4" |
| DMC6M-2R | 6mm | 1/8" |
| DMC6M-4R | 6mm | 1/4" |
| DMC6M-6R | 6mm | 3/8" |
| DMC6M-8R | 6mm | 1/2" |
| DMC8M-2R | 8mm | 1/8" |
| DMC8M-4R | 8mm | 1/4" |
| DMC8M-6R | 8mm | 3/8" |
| DMC8M-8R | 8mm | 1/2" |
| DMC10M-2R | 10mm | 1/8" |
| DMC10M-4R | 10mm | 1/4" |
| DMC10M-6R | 10mm | 3/8" |
| DMC10M-8R | 10mm | 1/2" |
| DMC10M-12R | 10mm | 3/4" |
| DMC12M-4N | 12mm | 1/4" |
| DMC12M-6R | 12mm | 3/8" |

| Part No. | End Size Tube O.D A | End Size PT THREAD B |
|------------|---------------------------|----------------------------|
| DMC12M-8R | 12mm | 1/2" |
| DMC12M-12R | 12mm | 3/4" |
| DMC14M-6R | 14mm | 3/8" |
| DMC14M-8R | 14mm | 1/2" |
| DMC15M-6R | 15mm | 3/8" |
| DMC15M-8R | 15mm | 1/2" |
| DMC16M-4R | 16mm | 1/4" |
| DMC16M-6R | 16mm | 3/8" |
| DMC16M-8R | 16mm | 1/2" |
| DMC16M-12R | 16mm | 3/4" |
| DMC18M-8R | 18mm | 1/2" |
| DMC18M-12R | 18mm | 3/4" |
| DMC20M-8R | 20mm | 1/2" |
| DMC20M-12R | 20mm | 3/4" |
| DMC22M-8R | 22mm | 1/2" |
| DMC22M-12R | 22mm | 3/4" |
| DMC22M-16R | 22mm | 1" |
| DMC25M-8R | 25mm | 1/2" |
| DMC25M-12R | 25mm | 3/4" |
| DMC25M-16R | 25mm | 1" |



* SPECIFICATION

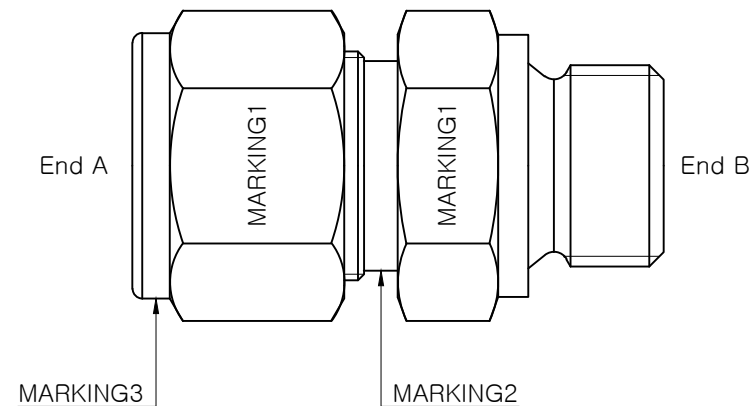
- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : DK-Lok [MAT'L] R [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2, 3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|------------|---|
| APPROVED | | TITLE |
| REVIEWED | | DMC-R / DK-LOK TUBE FITTING MALE CONNECTOR |
| DESIGNED | | |
| SCALE | N/S | Fittings & Valves |
| DATE | 2022.04.15 | |
| DWG. NO. | DMC-R | |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY | REV. NO. | REVISION NOTES | DATE |
|----------------|-----|---------------|-------------------|------|----------|---------------------|------------|
| DMCXX-XXG-SA | 1 | BODY | ASTM A276 TYPE316 | 1 | 0 | ISSUED FOR APPROVAL | 2022.04.15 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 1 | | | |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 1 | | | |
| | 4 | NUT | ASTM A276 TYPE316 | 1 | | | |


| Part No. | End Size Tube O.D A | End Size PF THREAD B |
|-----------|---------------------------|----------------------------|
| DMC2-2G | 1/8" | 1/8" |
| DMC2-4G | 1/8" | 1/4" |
| DMC2-6G | 1/8" | 3/8" |
| DMC4-2G | 1/4" | 1/8" |
| DMC4-4G | 1/4" | 1/4" |
| DMC4-6G | 1/4" | 3/8" |
| DMC4-8G | 1/4" | 1/2" |
| DMC6-2G | 3/8" | 1/8" |
| DMC6-4G | 3/8" | 1/4" |
| DMC6-6G | 3/8" | 3/8" |
| DMC6-8G | 3/8" | 1/2" |
| DMC8-4G | 1/2" | 1/4" |
| DMC8-6G | 1/2" | 3/8" |
| DMC8-8G | 1/2" | 1/2" |
| DMC12-8G | 3/4" | 1/2" |
| DMC12-12G | 3/4" | 3/4" |
| DMC16-8G | 1" | 1/2" |
| DMC16-12G | 1" | 3/4" |
| DMC16-16G | 1" | 1" |

| Part No. | End Size Tube O.D A | End Size PF THREAD B |
|------------|---------------------------|----------------------------|
| DMC3M-2G | 12mm | 1/2" |
| DMC3M-4G | 12mm | 3/4" |
| DMC4M-2G | 14mm | 3/8" |
| DMC6M-2G | 14mm | 1/2" |
| DMC6M-4G | 15mm | 3/8" |
| DMC6M-6G | 15mm | 1/2" |
| DMC6M-8G | 16mm | 1/4" |
| DMC8M-2G | 16mm | 3/8" |
| DMC8M-4G | 16mm | 1/2" |
| DMC8M-6G | 16mm | 3/4" |
| DMC8M-8G | 18mm | 1/2" |
| DMC10M-4G | 18mm | 3/4" |
| DMC10M-6G | 20mm | 1/2" |
| DMC10M-8G | 20mm | 3/4" |
| DMC12M-4G | 22mm | 1/2" |
| DMC12M-6G | 22mm | 3/4" |
| DMC12M-8G | 22mm | 1" |
| DMC12M-12G | 25mm | 1/2" |
| DMC15M-8G | 25mm | 3/4" |
| DMC16M-6G | 25mm | 1" |
| DMC16M-8G | 18mm | 3/4" |
| DMC18M-8G | 20mm | 1/2" |
| DMC18M-12G | 20mm | 3/4" |
| DMC20M-8G | 22mm | 1/2" |
| DMC20M-12G | 22mm | 3/4" |
| DMC22M-12G | 22mm | 1" |
| DMC22M-16G | 25mm | 1/2" |
| DMC25M-12G | 25mm | 3/4" |
| DMC25M-16G | 25mm | 1" |



* SPECIFICATION

- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.]
P36 / H35 [SERIAL NO.]
MARKING2 : DK-Lok [MAT'L] [G] [HCN]
MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
MARKING1 : LASER MARKING
MARKING2, 3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

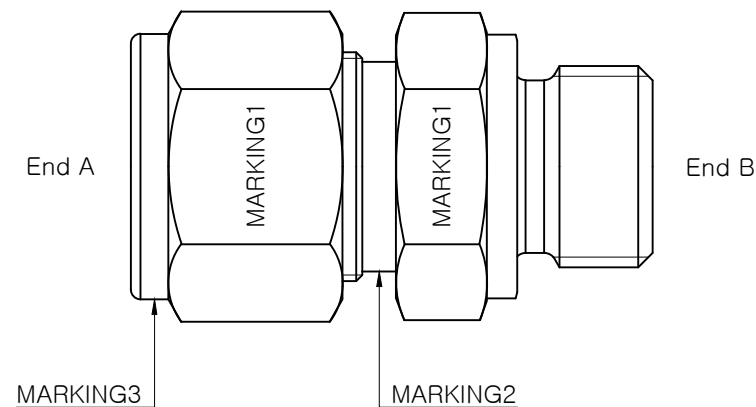
| | | |
|----------|--------------------|---|
| APPROVED | <i>[Signature]</i> | TITLE |
| REVIEWED | | DMC-G / DK-LOK TUBE FITTING MALE CONNECTOR FOR BONDED GASKET SEAL |
| DESIGNED | <i>X.H. Lee</i> | |
| SCALE | N/S |  <i>Fittings & Valves</i> |
| DATE | 2022.04.15 | |
| DWG. NO. | DMC-G | |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|---------------|-------------------|------|
| DMCXX-XXGB-SA | 1 | BODY | ASTM A276 TYPE316 | 1 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 1 |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 1 |
| | 4 | NUT | ASTM A276 TYPE316 | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |


| Part No. | End Size Tube O.D A | End Size PF THREAD B |
|------------|---------------------------|----------------------------|
| DMC2-2GB | 1/8" | 1/8" |
| DMC2-4GB | 1/8" | 1/4" |
| DMC2-6GB | 1/8" | 3/8" |
| DMC4-2GB | 1/4" | 1/8" |
| DMC4-4GB | 1/4" | 1/4" |
| DMC4-6GB | 1/4" | 3/8" |
| DMC4-8GB | 1/4" | 1/2" |
| DMC6-4GB | 3/8" | 1/4" |
| DMC6-6GB | 3/8" | 3/8" |
| DMC6-8GB | 3/8" | 1/2" |
| DMC8-4GB | 1/2" | 1/4" |
| DMC8-6GB | 1/2" | 3/8" |
| DMC8-8GB | 1/2" | 1/2" |
| DMC12-8GB | 3/4" | 1/2" |
| DMC12-12GB | 3/4" | 3/4" |
| DMC16-8GB | 1" | 1/2" |
| DMC16-16GB | 1" | 1" |

| Part No. | End Size Tube O.D A | End Size PF THREAD B |
|-------------|---------------------------|----------------------------|
| DMC3M-2GB | 12mm | 1/2" |
| DMC3M-4GB | 12mm | 3/4" |
| DMC4M-2GB | 14mm | 3/8" |
| DMC6M-2GB | 14mm | 1/2" |
| DMC6M-4GB | 15mm | 3/8" |
| DMC6M-6GB | 15mm | 1/2" |
| DMC6M-8GB | 16mm | 1/4" |
| DMC8M-2GB | 16mm | 3/8" |
| DMC8M-4GB | 16mm | 1/2" |
| DMC8M-6GB | 16mm | 3/4" |
| DMC8M-8GB | 18mm | 1/2" |
| DMC10M-4GB | 18mm | 3/4" |
| DMC10M-6GB | 20mm | 1/2" |
| DMC10M-8GB | 20mm | 3/4" |
| DMC12M-4GB | 22mm | 1/2" |
| DMC12M-6GB | 22mm | 3/4" |
| DMC12M-8GB | 22mm | 1" |
| DMC12M-12GB | 25mm | 1/2" |
| DMC15M-8GB | 25mm | 3/4" |
| BDMC16M-6G | 25mm | 1" |
| DMC16M-8GB | 18mm | 3/4" |
| DMC18M-8GB | 20mm | 1/2" |
| DMC18M-12GB | 20mm | 3/4" |
| DMC20M-8GB | 22mm | 1/2" |
| DMC20M-12GB | 22mm | 3/4" |
| DMC22M-12GB | 22mm | 1" |
| DMC22M-16GB | 25mm | 1/2" |
| DMC25M-12GB | 25mm | 3/4" |
| DMC25M-16GB | 25mm | 1" |



* SPECIFICATION

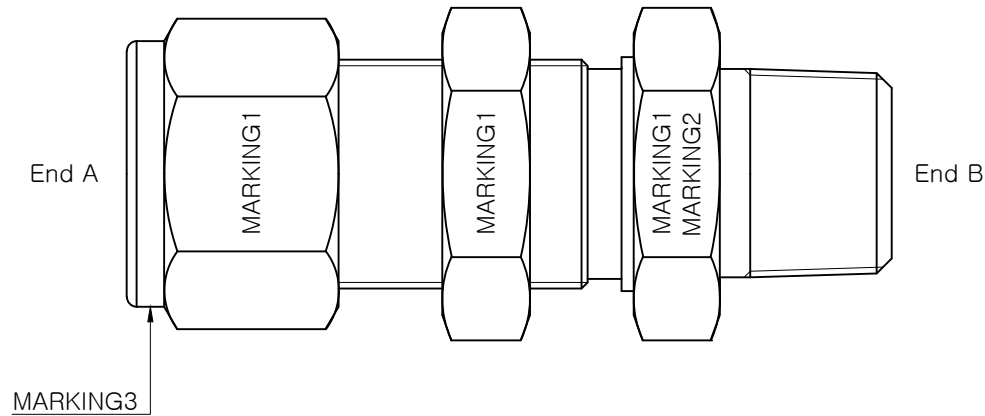
- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.]
P36 / H35 [SERIAL NO.]
MARKING2 : DK-Lok [MAT'L] G [HCN]
MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
MARKING1 : LASER MARKING
MARKING2, 3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|--------------------|---|
| APPROVED | <i>[Signature]</i> | TITLE |
| REVIEWED | | DMC-GB / DK-LOK TUBE FITTING MALE CONNECTOR FOR METAL GASKET |
| DESIGNED | <i>X.H Lee</i> | |
| SCALE | N/S |  <i>Fittings & Valves</i> |
| DATE | 2022.04.15 | |
| DWG. NO. | DMC-GB | |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|------------------|-------------------|------|
| DMCBXX-XXN-SA | 1 | BODY | ASTM A276 TYPE316 | 1 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 1 |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 1 |
| | 4 | NUT | ASTM A276 TYPE316 | 1 |
| | 5 | BULKHEAD LOCKNUT | ASTM A276 TYPE316 | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size NPT THREAD B |
|------------|------------------------|--------------------------|
| DMCB2-2N | 1/8" | 1/8" |
| DMCB4-2N | 1/4" | 1/8" |
| DMCB4-4N | 1/4" | 1/4" |
| DMCB4-6N | 1/4" | 3/8" |
| DMCB4-8N | 1/4" | 1/2" |
| DMCB6-4N | 3/8" | 1/4" |
| DMCB6-6N | 3/8" | 3/8" |
| DMCB6-8N | 3/8" | 1/2" |
| DMCB8-6N | 1/2" | 3/8" |
| DMCB8-8N | 1/2" | 1/2" |
| DMCB10-6N | 5/8" | 3/8" |
| DMCB12-12N | 3/4" | 3/4" |
| DMCB16-16N | 1" | 1" |
| DMCB6M-2N | 6mm | 1/8" |
| DMCB6M-4N | 6mm | 1/4" |
| DMCB6M-6N | 6mm | 3/8" |
| DMCB6M-8N | 6mm | 1/2" |
| DMCB8M-6N | 8mm | 3/8" |
| DMCB10M-4N | 10mm | 1/4" |
| DMCB10M-6N | 10mm | 3/8" |
| DMCB10M-8N | 10mm | 1/2" |
| DMCB12M-6N | 12mm | 3/8" |
| DMCB12M-8N | 12mm | 1/2" |



* SPECIFICATION

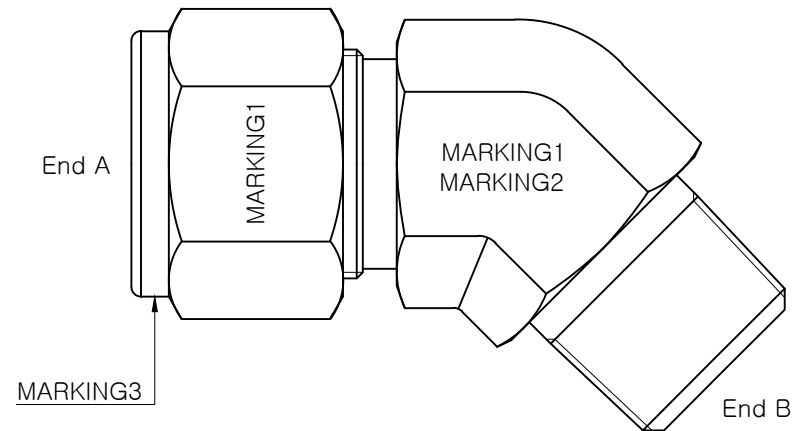
- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : DK-Lok [MAT'L] [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1, 2 : LASER MARKING
 MARKING3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|--------------------|---|
| APPROVED | <i>[Signature]</i> | TITLE |
| REVIEWED | | |
| DESIGNED | <i>X.H Lee</i> | |
| SCALE | N/S | |
| DATE | 2022.04.15 | DMCB / DK-LOK TUBE FITTING BULKHEAD MALE CONNECTOR |
| DWG. NO. | DMCB-N | |
| | | IDK-LOK Fittings & Valves |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|---------------|-------------------|------|
| DLBMXX-XXN-SA | 1 | BODY | ASTM A182 F316 | 1 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 1 |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 1 |
| | 4 | NUT | ASTM A276 TYPE316 | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size NPT THREAD B |
|------------|------------------------|--------------------------|
| DLBM2-2N | 1/8" | 1/8" |
| DLBM4-2N | 1/4" | 1/8" |
| DLBM4-4N | 1/4" | 1/4" |
| DLBM6-2N | 3/8" | 1/8" |
| DLBM6-4N | 3/8" | 1/4" |
| DLBM6-6N | 3/8" | 3/8" |
| DLBM8-6N | 1/2" | 3/8" |
| DLBM8-8N | 1/2" | 1/2" |
| DLBM12-12N | 3/4" | 3/4" |
| DLBM16-16N | 1" | 1" |
| DLBM6M-4N | 6mm | 1/4" |
| DLBM12M-8N | 12mm | 1/2" |



* SPECIFICATION

- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : [MAT'L] [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2 : PRESS MARKING
 MARKING3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

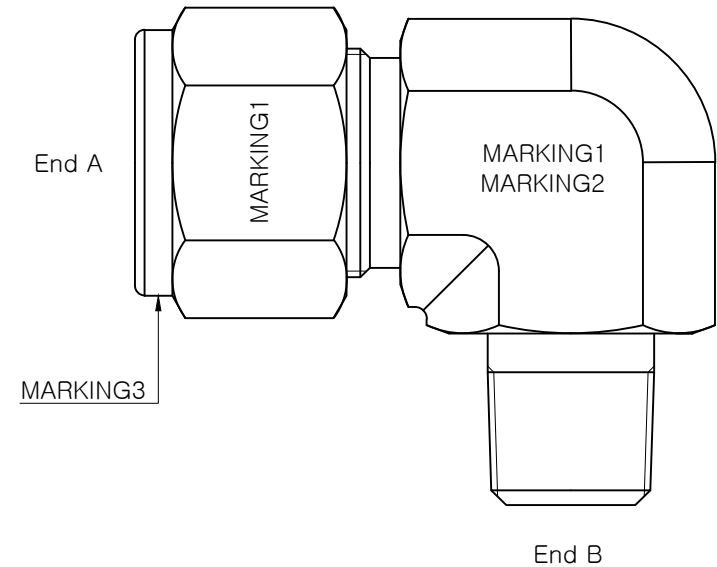
| | | |
|----------|------------|---|
| APPROVED | | TITLE DLBM / DK-LOK TUBE FITTING 45° MALE ELBOW |
| REVIEWED | | |
| DESIGNED | | |
| SCALE | N/S | |
| DATE | 2022.04.15 | Fittings & Valves |
| DWG. NO. | DLBM-N | |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|---------------|-------------------|------|
| DLMXX-XXN-SA | 1 | BODY | ASTM A182 F316 | 1 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 1 |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 1 |
| | 4 | NUT | ASTM A276 TYPE316 | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size | End Size |
|----------|---------------|-----------------|
| | Tube O.D A | NPT THREAD B |
| DLM1-1N | 1/16" | 1/16" |
| DLM1-2N | 1/16" | 1/8" |
| DLM2-1N | 1/8" | 1/16" |
| DLM2-2N | 1/8" | 1/8" |
| DLM2-4N | 1/8" | 1/4" |
| DLM3-2N | 3/16" | 1/8" |
| DLM3-4N | 3/16" | 1/4" |
| DLM4-1N | 1/4" | 1/16" |
| DLM4-2N | 1/4" | 1/8" |
| DLM4-4N | 1/4" | 1/4" |
| DLM4-6N | 1/4" | 3/8" |
| DLM4-8N | 1/4" | 1/2" |
| DLM5-2N | 5/16" | 1/8" |
| DLM5-4N | 5/16" | 1/4" |
| DLM5-6N | 5/16" | 3/8" |
| DLM6-2N | 3/8" | 1/8" |

| Part No. | End Size | End Size |
|-----------|---------------|-----------------|
| | Tube O.D A | NPT THREAD B |
| DLM6-4N | 3/8" | 1/4" |
| DLM6-6N | 3/8" | 3/8" |
| DLM6-8N | 3/8" | 1/2" |
| DLM6-12N | 3/8" | 3/4" |
| DLM8-4N | 1/2" | 1/4" |
| DLM8-6N | 1/2" | 3/8" |
| DLM8-8N | 1/2" | 1/2" |
| DLM8-12N | 1/2" | 3/4" |
| DLM10-6N | 5/8" | 3/8" |
| DLM10-8N | 5/8" | 1/2" |
| DLM10-12N | 5/8" | 3/4" |
| DLM12-8N | 3/4" | 1/2" |
| DLM12-12N | 3/4" | 3/4" |
| DLM14-12N | 7/8" | 3/4" |
| DLM16-12N | 1" | 3/4" |
| DLM16-16N | 1" | 1" |



* SPECIFICATION

- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : [MAT'L] [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2 : PRESS MARKING
 MARKING3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

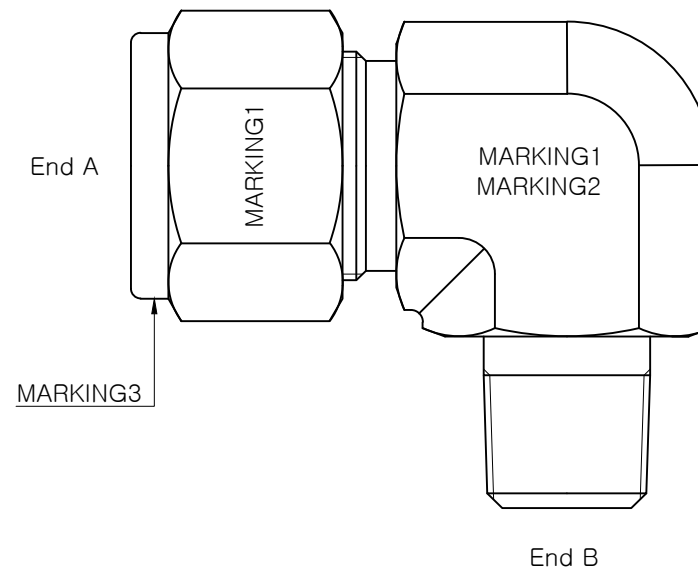
| | | |
|----------|------------|---|
| APPROVED | | TITLE |
| REVIEWED | | |
| DESIGNED | | DLM-N / DK-LOK TUBE FITTING MALE ELBOW |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DLM-N | Fittings & Valves |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|---------------|-------------------|------|
| DLMXX-XXN-SA | 1 | BODY | ASTM A182 F316 | 1 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 1 |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 1 |
| | 4 | NUT | ASTM A276 TYPE316 | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |


| Part No. | End Size Tube O.D A | End Size NPT THREAD B |
|-----------|---------------------------|-----------------------------|
| DLM3M-1N | 3mm | 1/16" |
| DLM3M-2N | 3mm | 1/8" |
| DLM3M-4N | 3mm | 1/4" |
| DLM4M-2N | 4mm | 1/8" |
| DLM4M-4N | 4mm | 1/4" |
| DLM6M-2N | 6mm | 1/8" |
| DLM6M-4N | 6mm | 1/4" |
| DLM6M-6N | 6mm | 3/8" |
| DLM6M-8N | 6mm | 1/2" |
| DLM8M-2N | 8mm | 1/8" |
| DLM8M-4N | 8mm | 1/4" |
| DLM8M-6N | 8mm | 3/8" |
| DLM8M-8N | 8mm | 1/2" |
| DLM10M-2N | 10mm | 1/8" |
| DLM10M-4N | 10mm | 1/4" |
| DLM10M-6N | 10mm | 3/8" |
| DLM10M-8N | 10mm | 1/2" |
| DLM12M-4N | 12mm | 1/4" |

| Part No. | End Size Tube O.D A | End Size NPT THREAD B |
|------------|---------------------------|-----------------------------|
| DLM12M-6N | 12mm | 3/8" |
| DLM12M-8N | 12mm | 1/2" |
| DLM12M-12N | 12mm | 3/4" |
| DLM15M-6N | 15mm | 3/8" |
| DLM15M-8N | 15mm | 1/2" |
| DLM16M-6N | 16mm | 3/8" |
| DLM16M-8N | 16mm | 1/2" |
| DLM16M-12N | 16mm | 3/4" |
| DLM18M-8N | 18mm | 1/2" |
| DLM18M-12N | 18mm | 3/4" |
| DLM20M-8N | 20mm | 1/2" |
| DLM20M-12N | 20mm | 3/4" |
| DLM22M-8N | 22mm | 1/2" |
| DLM22M-12N | 22mm | 3/4" |
| DLM22M-16N | 22mm | 1" |
| DLM25M-12N | 25mm | 3/4" |
| DLM25M-16N | 25mm | 1" |

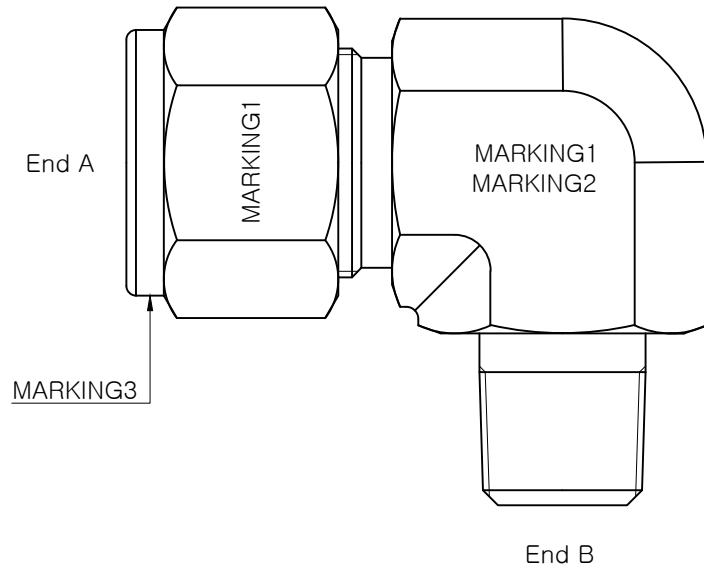


* SPECIFICATION

- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : [MAT'L] [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2 : PRESS MARKING
 MARKING3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|--------------------|--|
| APPROVED | <i>[Signature]</i> | TITLE DLM-N / DK-LOK TUBE FITTING MALE ELBOW |
| REVIEWED | | |
| DESIGNED | <i>X.H Lee</i> | |
| SCALE | N/S | |
| DATE | 2022.04.15 |  Fittings & Valves |
| DWG. NO. | DLM-N | |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY | REV. NO. | REVISION NOTES | DATE |
|----------------|-----|---------------|-------------------|------|----------|---------------------|------------|
| DLMXX-XXR-SA | 1 | BODY | ASTM A182 F316 | 1 | 0 | ISSUED FOR APPROVAL | 2022.04.15 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 1 | | | |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 1 | | | |
| | 4 | NUT | ASTM A276 TYPE316 | 1 | | | |



| Part No. | End Size Tube O.D A | End Size PT THREAD B |
|-----------|---------------------------|----------------------------|
| DLM2-2R | 1/8" | 1/8" |
| DLM2-4R | 1/8" | 1/4" |
| DLM3-4R | 3/16" | 1/4" |
| DLM4-2R | 1/4" | 1/8" |
| DLM4-4R | 1/4" | 1/4" |
| DLM4-6R | 1/4" | 3/8" |
| DLM4-8R | 1/4" | 1/2" |
| DLM5-4R | 5/16" | 1/4" |
| DLM5-6R | 5/16" | 3/8" |
| DLM6-2R | 3/8" | 1/8" |
| DLM6-4R | 3/8" | 1/4" |
| DLM6-6R | 3/8" | 3/8" |
| DLM6-8R | 3/8" | 1/2" |
| DLM6-12R | 3/8" | 3/4" |
| DLM8-4R | 1/2" | 1/4" |
| DLM8-6R | 1/2" | 3/8" |
| DLM8-8R | 1/2" | 1/2" |
| DLM8-12R | 1/2" | 3/4" |
| DLM10-6R | 5/8" | 3/8" |
| DLM10-8R | 5/8" | 1/2" |
| DLM10-12R | 5/8" | 3/4" |
| DLM12-8R | 3/4" | 1/2" |
| DLM12-12R | 3/4" | 3/4" |
| DLM12-16R | 3/4" | 1" |
| DLM16-12R | 1" | 3/4" |
| DLM16-16R | 1" | 1" |

* SPECIFICATION

- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : [MAT'L] R [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2 : PRESS MARKING
 MARKING3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

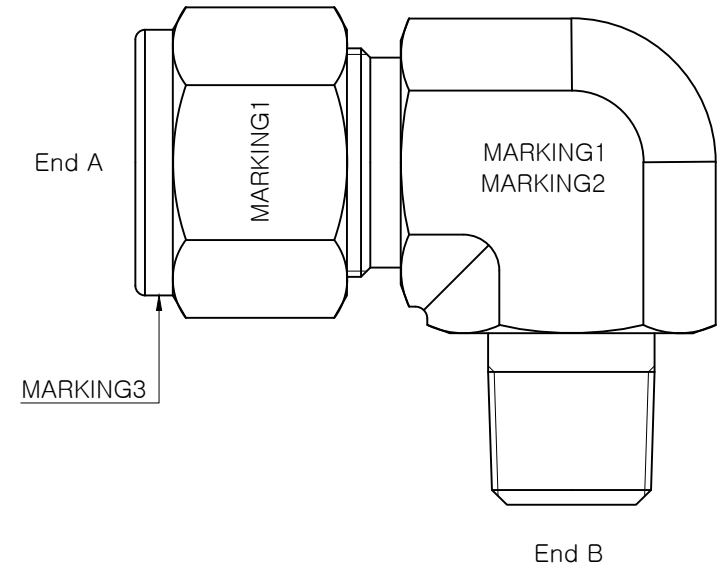
| | | |
|----------|------------|--|
| APPROVED | | TITLE DLM-R / DK-LOK TUBE FITTING MALE ELBOW |
| REVIEWED | | |
| DESIGNED | | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DLM-R | IDK-LOK Fittings & Valves |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|---------------|-------------------|------|
| DLMXX-XXR-SA | 1 | BODY | ASTM A182 F316 | 1 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 1 |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 1 |
| | 4 | NUT | ASTM A276 TYPE316 | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size PT THREAD B |
|-----------|---------------------------|----------------------------|
| DLM3M-1R | 3mm | 1/16" |
| DLM3M-2R | 3mm | 1/8" |
| DLM3M-4R | 3mm | 1/4" |
| DLM4M-2R | 4mm | 1/8" |
| DLM4M-4R | 4mm | 1/4" |
| DLM6M-2R | 6mm | 1/8" |
| DLM6M-4R | 6mm | 1/4" |
| DLM6M-6R | 6mm | 3/8" |
| DLM6M-8R | 6mm | 1/2" |
| DLM8M-2R | 8mm | 1/8" |
| DLM8M-4R | 8mm | 1/4" |
| DLM8M-6R | 8mm | 3/8" |
| DLM8M-8R | 8mm | 1/2" |
| DLM10M-2R | 10mm | 1/8" |
| DLM10M-4R | 10mm | 1/4" |
| DLM10M-6R | 10mm | 3/8" |
| DLM10M-8R | 10mm | 1/2" |
| DLM12M-2R | 12mm | 1/8" |
| DLM12M-4R | 12mm | 1/4" |
| DLM12M-6R | 12mm | 3/8" |

| Part No. | End Size Tube O.D A | End Size PT THREAD B |
|------------|---------------------------|----------------------------|
| DLM12M-6R | 12mm | 3/8" |
| DLM12M-8R | 12mm | 1/2" |
| DLM12M-12R | 12mm | 3/4" |
| DLM14M-8R | 14mm | 1/2" |
| DLM15M-6R | 15mm | 3/8" |
| DLM15M-8R | 15mm | 1/2" |
| DLM16M-6R | 16mm | 3/8" |
| DLM16M-8R | 16mm | 1/2" |
| DLM18M-8R | 18mm | 1/2" |
| DLM18M-12R | 18mm | 3/4" |
| DLM20M-8R | 20mm | 1/2" |
| DLM20M-12R | 20mm | 3/4" |
| DLM22M-8R | 22mm | 1/2" |
| DLM22M-12R | 22mm | 3/4" |
| DLM22M-16R | 22mm | 1" |
| DLM25M-8R | 25mm | 1/2" |
| DLM25M-12R | 25mm | 3/4" |
| DLM25M-16R | 25mm | 1" |



* SPECIFICATION

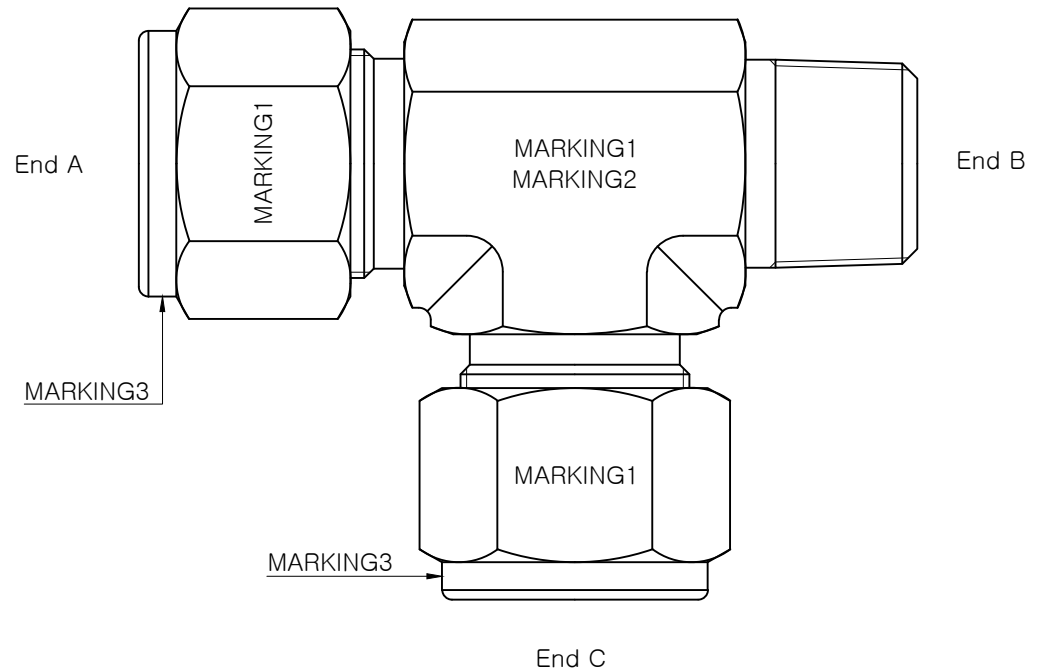
- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : [MAT'L] R [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2 : PRESS MARKING
 MARKING3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|------------|---|
| APPROVED | | TITLE |
| REVIEWED | | |
| DESIGNED | X.H. Lee | DLM-R / DK-LOK TUBE FITTING MALE ELBOW |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DLM-R | Fittings & Valves |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|---------------|-------------------|------|
| DTRMXX-XXN-SA | 1 | BODY | ASTM A182 F316 | 1 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 2 |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 2 |
| | 4 | NUT | ASTM A276 TYPE316 | 2 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size NPT THREAD B | End Size Tube O.D C |
|------------|---------------------|-----------------------|---------------------|
| DTRM1-1N | 1/16" | 1/16" | 1/16" |
| DTRM1-2N | 1/16" | 1/8" | 1/16" |
| DTRM2-2N | 1/8" | 1/8" | 1/8" |
| DTRM2-4N | 1/8" | 1/4" | 1/8" |
| DTRM3-2N | 3/8" | 1/8" | 3/8" |
| DTRM3-4N | 3/8" | 1/4" | 3/8" |
| DTRM4-1N | 1/4" | 1/16" | 1/4" |
| DTRM4-2N | 1/4" | 1/8" | 1/4" |
| DTRM4-4N | 1/4" | 1/4" | 1/4" |
| DTRM4-6N | 1/4" | 3/8" | 1/4" |
| DTRM4-8N | 1/4" | 1/2" | 1/4" |
| DTRM5-2N | 5/16" | 1/8" | 5/16" |
| DTRM5-4N | 5/16" | 1/4" | 5/16" |
| DTRM5-6N | 5/16" | 3/8" | 5/16" |
| DTRM6-4N | 3/8" | 1/4" | 3/8" |
| DTRM6-6N | 3/8" | 3/8" | 3/8" |
| DTRM6-8N | 3/8" | 1/2" | 3/8" |
| DTRM6-12N | 3/8" | 3/4" | 3/8" |
| DTRM8-4N | 1/2" | 1/4" | 1/2" |
| DTRM8-6N | 1/2" | 3/8" | 1/2" |
| DTRM8-8N | 1/2" | 1/2" | 1/2" |
| DTRM8-12N | 1/2" | 3/4" | 1/2" |
| DTRM10-6N | 5/8" | 3/8" | 5/8" |
| DTRM10-8N | 5/8" | 1/2" | 5/8" |
| DTRM10-12N | 5/8" | 3/4" | 5/8" |
| DTRM12-8N | 3/4" | 1/2" | 3/4" |
| DTRM12-12N | 3/4" | 3/4" | 3/4" |
| DTRM14-12N | 7/8" | 3/4" | 7/8" |
| DTRM16-12N | 1" | 3/4" | 1" |
| DTRM16-16N | 1" | 1" | 1" |



* SPECIFICATION

1. MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.]
P36 / H35 [SERIAL NO.]

MARKING2 : [MAT'L] [HCN]

MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]

2. MARKING METHOD

MARKING1 : LASER MARKING

MARKING2 : PRESS MARKING

MARKING3 : ROLL MARKING

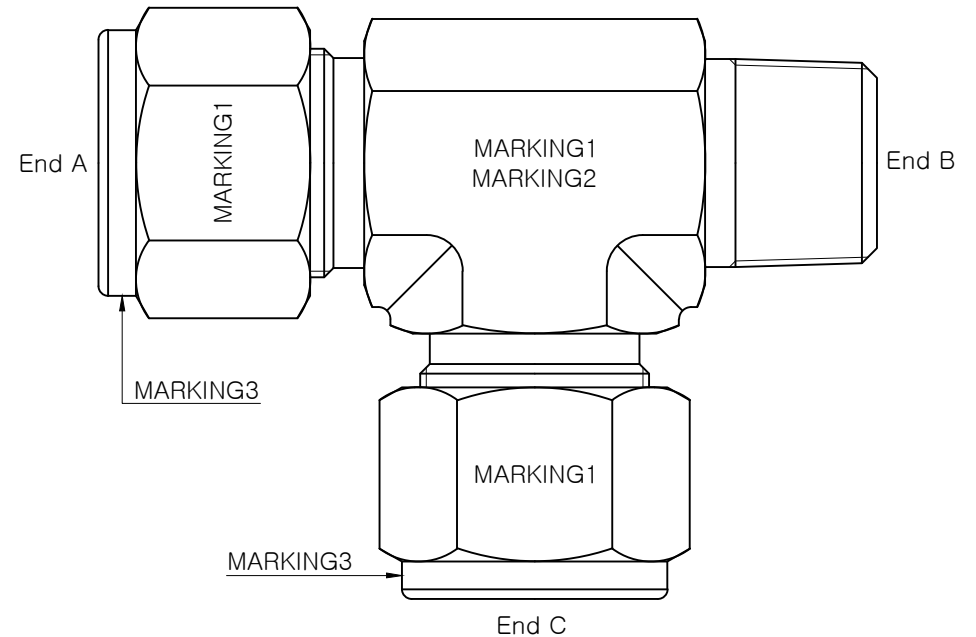
3. SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|--------------------|---|
| APPROVED | <i>[Signature]</i> | TITLE DTRM-N / DK-LOK TUBE FITTING MALE RUN TEE |
| REVIEWED | | |
| DESIGNED | <i>X.H. Lee</i> | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DTRM-N | IDK-LOK Fittings & Valves |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|---------------|-------------------|------|
| DTRMXX-XXR-SA | 1 | BODY | ASTM A182 F316 | 1 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 2 |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 2 |
| | 4 | NUT | ASTM A276 TYPE316 | 2 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size PT THREAD B | End Size Tube O.D C | Part No. | End Size Tube O.D A | End Size PT THREAD B | End Size Tube O.D C |
|------------|---------------------------|----------------------------|---------------------------|-------------|---------------------------|----------------------------|---------------------------|
| DTRM6-4R | 3/8" | 1/4" | 3/8" | DTRM10M-6R | 10mm | 3/8" | 10mm |
| DTRM8-6R | 1/2" | 3/8" | 1/2" | DTRM10M-8R | 10mm | 1/2" | 10mm |
| DTRM8-8R | 1/2" | 1/2" | 1/2" | DTRM12M-2R | 12mm | 1/8" | 12mm |
| DTRM10-8R | 5/8" | 1/2" | 5/8" | DTRM12M-4R | 12mm | 1/4" | 12mm |
| DTRM3M-2R | 3mm | 1/8" | 3mm | DTRM12M-6R | 12mm | 3/8" | 12mm |
| DTRM3M-4R | 3mm | 1/4" | 3mm | DTRM12M-8R | 12mm | 1/2" | 12mm |
| DTRM4M-2R | 4mm | 1/8" | 4mm | DTRM12M-12R | 12mm | 3/4" | 12mm |
| DTRM4M-4R | 4mm | 1/4" | 4mm | DTRM16M-6R | 16mm | 3/8" | 16mm |
| DTRM6M-2R | 6mm | 1/8" | 6mm | DTRM16M-8R | 16mm | 1/2" | 16mm |
| DTRM6M-4R | 6mm | 1/4" | 6mm | DTRM16M-12R | 16mm | 3/4" | 16mm |
| DTRM6M-6R | 6mm | 3/8" | 6mm | DTRM18M-8R | 18mm | 1/2" | 18mm |
| DTRM6M-8R | 6mm | 1/2" | 6mm | DTRM18M-12R | 18mm | 3/4" | 18mm |
| DTRM8M-2R | 8mm | 1/8" | 8mm | DTRM20M-8R | 20mm | 1/2" | 20mm |
| DTRM8M-4R | 8mm | 1/4" | 8mm | DTRM20M-12R | 20mm | 3/4" | 20mm |
| DTRM8M-6R | 8mm | 3/8" | 8mm | DTRM22M-12R | 22mm | 3/4" | 22mm |
| DTRM8M-8R | 8mm | 1/2" | 8mm | DTRM22M-16R | 22mm | 1" | 22mm |
| DTRM10M-2R | 10mm | 1/8" | 10mm | DTRM25M-12R | 25mm | 3/4" | 25mm |
| DTRM10M-4R | 10mm | 1/4" | 10mm | DTRM25M-16R | 25mm | 1" | 25mm |



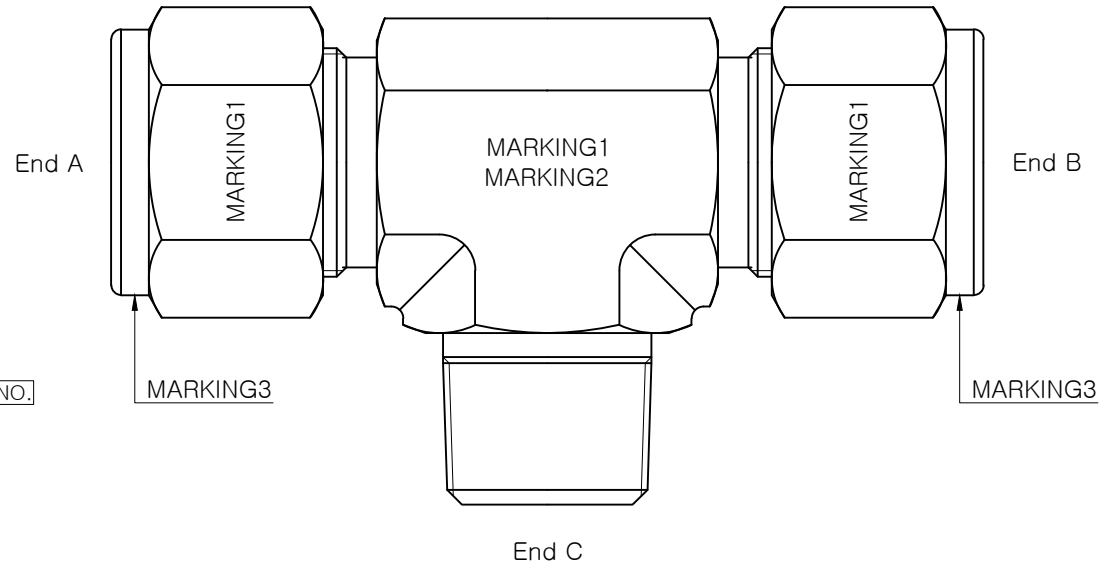
* SPECIFICATION

- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : [MAT'L] R [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2 : PRESS MARKING
 MARKING3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|------------|--|
| APPROVED | | TITLE |
| REVIEWED | | |
| DESIGNED | | DTRM-R / DK-LOK TUBE FITTING MALE RUN TEE |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DTRM-R | Fittings & Valves |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|---------------|-------------------|------|
| DTBMXX-XXN-SA | 1 | BODY | ASTM A182 F316 | 1 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 2 |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 2 |
| | 4 | NUT | ASTM A276 TYPE316 | 2 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |



* SPECIFICATION

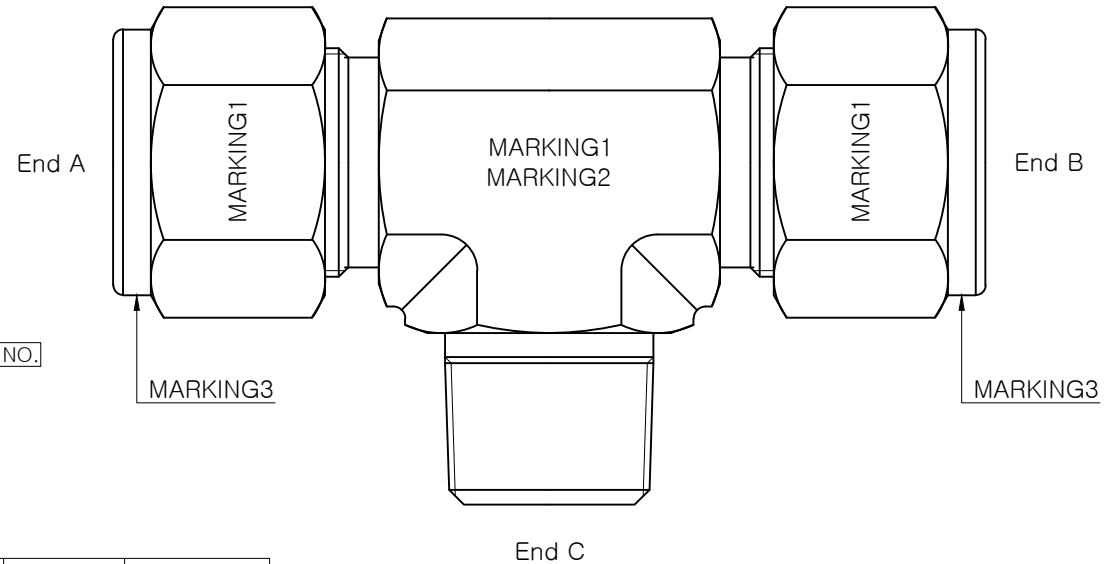
- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : [MAT'L] [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2 : PRESS MARKING
 MARKING3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| Part No. | End Size Tube O.D A | End Size Tube O.D B | End Size NPT THREAD C | Part No. | End Size Tube O.D A | End Size Tube O.D B | End Size NPT THREAD C |
|----------|---------------------------|---------------------------|-----------------------------|------------|---------------------------|---------------------------|-----------------------------|
| DTBM1-1N | 1/16" | 1/16" | 1/16" | DTBM6-6N | 3/8" | 3/8" | 3/8" |
| DTBM1-2N | 1/16" | 1/16" | 1/8" | DTBM6-8N | 3/8" | 3/8" | 1/2" |
| DTBM2-2N | 1/8" | 1/8" | 1/8" | DTBM6-12N | 3/8" | 3/8" | 3/4" |
| DTBM2-4N | 1/8" | 1/8" | 1/4" | DTBM8-4N | 1/2" | 1/2" | 1/4" |
| DTBM3-2N | 3/16" | 3/16" | 1/8" | DTBM8-6N | 1/2" | 1/2" | 3/8" |
| DTBM3-4N | 3/16" | 3/16" | 1/4" | DTBM8-8N | 1/2" | 1/2" | 1/2" |
| DTBM4-1N | 1/4" | 1/4" | 1/16" | DTBM8-12N | 1/2" | 1/2" | 3/4" |
| DTBM4-2N | 1/4" | 1/4" | 1/8" | DTBM10-6N | 5/8" | 5/8" | 3/8" |
| DTBM4-4N | 1/4" | 1/4" | 1/4" | DTBM10-8N | 5/8" | 5/8" | 1/2" |
| DTBM4-6N | 1/4" | 1/4" | 3/8" | DTBM10-12N | 5/8" | 5/8" | 3/4" |
| DTBM4-8N | 1/4" | 1/4" | 1/2" | DTBM12-8N | 3/4" | 3/4" | 1/2" |
| DTBM5-2N | 5/16" | 5/16" | 1/8" | DTBM12-12N | 3/4" | 3/4" | 3/4" |
| DTBM5-4N | 5/16" | 5/16" | 1/4" | DTBM14-12N | 7/8" | 7/8" | 3/4" |
| DTBM5-6N | 5/16" | 5/16" | 3/8" | DTBM16-12N | 1" | 1" | 3/4" |
| DTBM6-4N | 3/8" | 3/8" | 1/4" | DTBM16-16N | 1" | 1" | 1" |

| | | |
|----------|------------|--|
| APPROVED | | TITLE DTBM-N / DK-LOK TUBE FITTING MALE BRANCH TEE |
| REVIEWED | | |
| DESIGNED | | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DTBM-N | IDK-LOK Fittings & Valves |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|---------------|-------------------|------|
| DTBMXX-XXN-SA | 1 | BODY | ASTM A182 F316 | 1 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 2 |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 2 |
| | 4 | NUT | ASTM A276 TYPE316 | 2 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |



* SPECIFICATION

- MARKING1 : ANSI NGV3.1:20 / HG V3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : [MAT'L] [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2 : PRESS MARKING
 MARKING3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

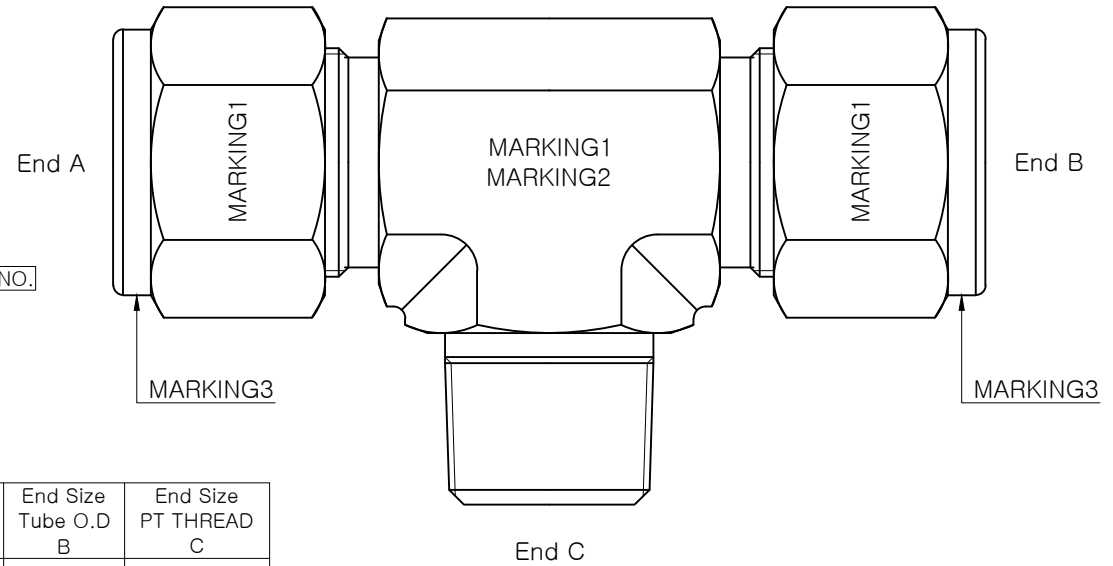
| Part No. | End Size Tube O.D A | End Size Tube O.D B | End Size NPT THREAD C |
|------------|---------------------------|---------------------------|-----------------------------|
| DTBM3M-2N | 3mm | 3mm | 1/8" |
| DTBM3M-4N | 3mm | 3mm | 1/4" |
| DTBM4M-2N | 4mm | 4mm | 1/8" |
| DTBM4M-4N | 4mm | 4mm | 1/4" |
| DTBM6M-2N | 6mm | 6mm | 1/8" |
| DTBM6M-4N | 6mm | 6mm | 1/4" |
| DTBM6M-6N | 6mm | 6mm | 3/8" |
| DTBM6M-8N | 6mm | 6mm | 1/2" |
| DTBM8M-2N | 8mm | 8mm | 1/8" |
| DTBM8M-4N | 8mm | 8mm | 1/4" |
| DTBM8M-6N | 8mm | 8mm | 3/8" |
| DTBM8M-8N | 8mm | 8mm | 1/2" |
| DTBM10M-2N | 10mm | 10mm | 1/8" |
| DTBM10M-4N | 10mm | 10mm | 1/4" |
| DTBM10M-6N | 10mm | 10mm | 3/8" |
| DTBM10M-8N | 10mm | 10mm | 1/2" |

| Part No. | End Size Tube O.D A | End Size Tube O.D B | End Size NPT THREAD C |
|-------------|---------------------------|---------------------------|-----------------------------|
| DTBM12M-2N | 12mm | 12mm | 1/8" |
| DTBM12M-4N | 12mm | 12mm | 1/4" |
| DTBM12M-6N | 12mm | 12mm | 3/8" |
| DTBM12M-8N | 12mm | 12mm | 1/2" |
| DTBM12M-12N | 12mm | 12mm | 3/4" |
| DTBM16M-6N | 16mm | 16mm | 3/8" |
| DTBM16M-8N | 16mm | 16mm | 1/2" |
| DTBM16M-12N | 16mm | 16mm | 3/4" |
| DTBM18M-8N | 18mm | 18mm | 1/2" |
| DTBM18M-12N | 18mm | 18mm | 3/4" |
| DTBM20M-8N | 20mm | 20mm | 1/2" |
| DTBM20M-12N | 20mm | 20mm | 3/4" |
| DTBM22M-12N | 22mm | 22mm | 3/4" |
| DTBM22M-16N | 22mm | 22mm | 1" |
| DTBM25M-12N | 25mm | 25mm | 3/4" |
| DTBM25M-16N | 25mm | 25mm | 1" |

| | | |
|----------|------------|--|
| APPROVED | | TITLE DTBM-N / DK-LOK TUBE FITTING MALE BRANCH TEE |
| REVIEWED | | |
| DESIGNED | X.H. Lee | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DTBM-N | IDK-LOK Fittings & Valves |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|---------------|-------------------|------|
| DTBMXX-XXR-SA | 1 | BODY | ASTM A182 F316 | 1 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 2 |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 2 |
| | 4 | NUT | ASTM A276 TYPE316 | 2 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |



* SPECIFICATION

- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : [MAT'L] R [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2 : PRESS MARKING
 MARKING3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

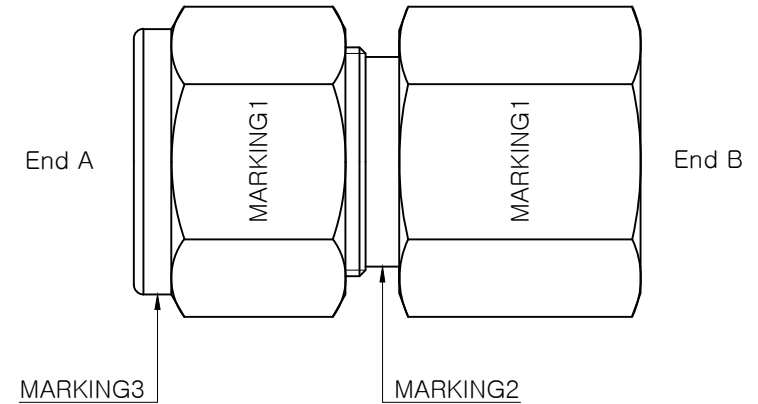
| Part No. | End Size Tube O.D A | End Size Tube O.D B | End Size PT THREAD C | Part No. | End Size Tube O.D A | End Size Tube O.D B | End Size PT THREAD C |
|------------|---------------------------|---------------------------|----------------------------|-------------|---------------------------|---------------------------|----------------------------|
| DTBM6-4R | 3/8" | 3/8" | 1/4" | DTBM10M-6R | 10mm | 10mm | 3/8" |
| DTBM8-6R | 1/2" | 1/2" | 3/8" | DTBM10M-8R | 10mm | 10mm | 1/2" |
| DTBM8-8R | 1/2" | 1/2" | 1/2" | DTBM12M-2R | 12mm | 12mm | 1/8" |
| DTBM10-8R | 5/8" | 5/8" | 1/2" | DTBM12M-4R | 12mm | 12mm | 1/4" |
| DTBM3M-2R | 3mm | 3mm | 1/8" | DTBM12M-6R | 12mm | 12mm | 3/8" |
| DTBM3M-4R | 3mm | 3mm | 1/4" | DTBM12M-8R | 12mm | 12mm | 1/2" |
| DTBM4M-2R | 4mm | 4mm | 1/8" | DTBM12M-12R | 12mm | 12mm | 3/4" |
| DTBM4M-4R | 4mm | 4mm | 1/4" | DTBM16M-6R | 16mm | 16mm | 3/8" |
| DTBM6M-2R | 6mm | 6mm | 1/8" | DTBM16M-8R | 16mm | 16mm | 1/2" |
| DTBM6M-4R | 6mm | 6mm | 1/4" | DTBM16M-12R | 16mm | 16mm | 3/4" |
| DTBM6M-6R | 6mm | 6mm | 3/8" | DTBM18M-8R | 18mm | 18mm | 1/2" |
| DTBM6M-8R | 6mm | 6mm | 1/2" | DTBM18M-12R | 18mm | 18mm | 3/4" |
| DTBM8M-2R | 8mm | 8mm | 1/8" | DTBM20M-8R | 20mm | 20mm | 1/2" |
| DTBM8M-4R | 8mm | 8mm | 1/4" | DTBM20M-12R | 20mm | 20mm | 3/4" |
| DTBM8M-6R | 8mm | 8mm | 3/8" | DTBM22M-12R | 22mm | 22mm | 3/4" |
| DTBM8M-8R | 8mm | 8mm | 1/2" | DTBM22M-16R | 22mm | 22mm | 1" |
| DTBM10M-2R | 10mm | 10mm | 1/8" | DTBM25M-12R | 25mm | 25mm | 3/4" |
| DTBM10M-4R | 10mm | 10mm | 1/4" | DTBM25M-16R | 25mm | 25mm | 1" |

| | | |
|----------|------------|--|
| APPROVED | | TITLE DTBM-R / DK-LOK TUBE FITTING MALE BRANCH TEE |
| REVIEWED | | |
| DESIGNED | | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DTBM-R | IDK-LOK Fittings & Valves |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|---------------|-------------------|------|
| DCFXX-XXN-SA | 1 | BODY | ASTM A276 TYPE316 | 1 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 1 |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 1 |
| | 4 | NUT | ASTM A276 TYPE316 | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size NPT THREAD B | Part No. | End Size Tube O.D A | End Size NPT THREAD B |
|-----------|---------------------------|-----------------------------|------------|---------------------------|-----------------------------|
| DCF1-1N | 1/16" | 1/16" | DCF3M-2N | 3mm | 1/8" |
| DCF1-2N | 1/16" | 1/8" | DCF3M-4N | 3mm | 1/4" |
| DCF2-2N | 1/8" | 1/8" | DCF4M-2N | 4mm | 1/8" |
| DCF2-4N | 1/8" | 1/4" | DCF6M-2N | 6mm | 1/8" |
| DCF3-2N | 3/16" | 1/8" | DCF6M-4N | 6mm | 1/4" |
| DCF4-2N | 1/4" | 1/8" | DCF6M-6N | 6mm | 3/8" |
| DCF4-4N | 1/4" | 1/4" | DCF6M-8N | 6mm | 1/2" |
| DCF4-6N | 1/4" | 3/8" | DCF8M-2N | 8mm | 1/8" |
| DCF4-8N | 1/4" | 1/2" | DCF8M-4N | 8mm | 1/4" |
| DCF5-2N | 5/16" | 1/8" | DCF8M-6N | 8mm | 3/8" |
| DCF5-4N | 5/16" | 1/4" | DCF8M-8N | 8mm | 1/2" |
| DCF6-2N | 3/8" | 1/8" | DCF10M-2N | 10mm | 1/8" |
| DCF6-4N | 3/8" | 1/4" | DCF10M-4N | 10mm | 1/4" |
| DCF6-6N | 3/8" | 3/8" | DCF10M-6N | 10mm | 3/8" |
| DCF6-8N | 3/8" | 1/2" | DCF10M-8N | 10mm | 1/2" |
| DCF6-12N | 3/8" | 3/4" | DCF12M-2N | 12mm | 1/8" |
| DCF8-4N | 1/2" | 1/4" | DCF12M-4N | 12mm | 1/4" |
| DCF8-6N | 1/2" | 3/8" | DCF12M-6N | 12mm | 3/8" |
| DCF8-8N | 1/2" | 1/2" | DCF12M-8N | 12mm | 1/2" |
| DCF8-12N | 1/2" | 3/4" | DCF12M-12N | 12mm | 3/4" |
| DCF10-6N | 5/8" | 3/8" | DCF15M-8N | 15mm | 1/2" |
| DCF10-8N | 5/8" | 1/2" | DCF16M-8N | 16mm | 1/2" |
| DCF10-12N | 5/8" | 3/4" | DCF20M-8N | 20mm | 1/2" |
| DCF12-8N | 3/4" | 1/2" | DCF20M-12N | 20mm | 3/4" |
| DCF12-12N | 3/4" | 3/4" | DCF22M-12N | 22mm | 3/4" |
| DCF14-12N | 7/8" | 3/4" | DCF22M-16N | 22mm | 1" |
| DCF16-12N | 1" | 3/4" | DCF25M-12N | 25mm | 3/4" |
| DCF16-16N | 1" | 1" | DCF25M-16N | 25mm | 1" |



* SPECIFICATION

1. MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.]

P36 / H35 [SERIAL NO.]

MARKING2 : DK-Lok [MAT'L] [HCN]

MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]

2. MARKING METHOD

MARKING1 : LASER MARKING

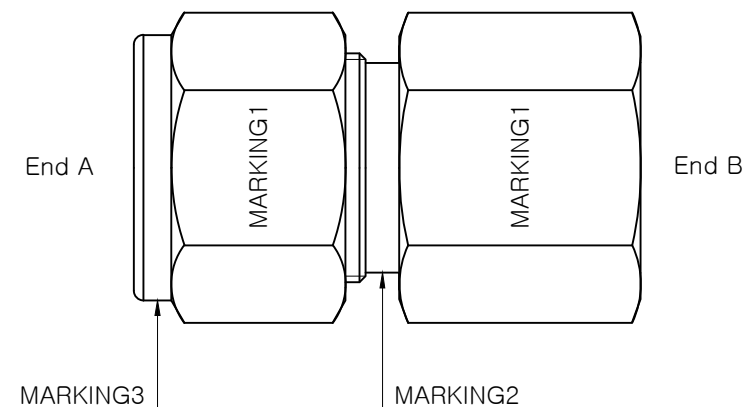
MARKING2, 3 : ROLL MARKING

3. SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|------------|--|
| APPROVED | | TITLE DCF-N / DK-LOK TUBE FITTING FEMALE CONNECTOR |
| REVIEWED | | |
| DESIGNED | | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DCF-N | IDK-LOK Fittings & Valves |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY | REV. NO. | REVISION NOTES | DATE |
|----------------|-----|---------------|-------------------|------|----------|---------------------|------------|
| DCFXX-XXR-SA | 1 | BODY | ASTM A276 TYPE316 | 1 | 0 | ISSUED FOR APPROVAL | 2022.04.15 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 1 | | | |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 1 | | | |
| | 4 | NUT | ASTM A276 TYPE316 | 1 | | | |

| Part No. | End Size Tube O.D A | End Size PT THREAD B | Part No. | End Size Tube O.D A | End Size PT THREAD B |
|-----------|---------------------|----------------------|------------|---------------------|----------------------|
| DCF2-2R | 1/8" | 1/8" | DCF3M-2R | 3mm | 1/8" |
| DCF4-2R | 1/4" | 1/8" | DCF3M-4R | 3mm | 1/4" |
| DCF4-4R | 1/4" | 1/4" | DCF4M-2R | 4mm | 1/8" |
| DCF4-6R | 1/4" | 3/8" | DCF6M-2R | 6mm | 1/8" |
| DCF4-8R | 1/4" | 1/2" | DCF6M-4R | 6mm | 1/4" |
| DCF6-4R | 3/8" | 1/4" | DCF6M-6R | 6mm | 3/8" |
| DCF6-6R | 3/8" | 3/8" | DCF6M-8R | 6mm | 1/2" |
| DCF6-8R | 3/8" | 1/2" | DCF8M-2R | 8mm | 1/8" |
| DCF8-2R | 1/2" | 1/8" | DCF8M-4R | 8mm | 1/4" |
| DCF8-4R | 1/2" | 1/4" | DCF8M-6R | 8mm | 3/8" |
| DCF8-6R | 1/2" | 3/8" | DCF8M-8R | 8mm | 1/2" |
| DCF8-8R | 1/2" | 1/2" | DCF10M-2R | 10mm | 1/8" |
| DCF8-12R | 1/2" | 3/4" | DCF10M-4R | 10mm | 1/4" |
| DCF10-6R | 5/8" | 3/8" | DCF10M-6R | 10mm | 3/8" |
| DCF10-8R | 5/8" | 1/2" | DCF10M-8R | 10mm | 1/2" |
| DCF10-12R | 5/8" | 3/4" | DCF12M-2R | 12mm | 1/8" |
| DCF12-8R | 3/4" | 1/2" | DCF12M-4R | 12mm | 1/4" |
| DCF12-12R | 3/4" | 3/4" | DCF12M-6R | 12mm | 3/8" |
| DCF16-12R | 1" | 3/4" | DCF12M-8R | 12mm | 1/2" |
| DCF16-16R | 1" | 1" | DCF12M-12R | 12mm | 3/4" |
| | | | DCF15M-8R | 15mm | 1/2" |
| | | | DCF16M-8R | 16mm | 1/2" |
| | | | DCF20M-8R | 20mm | 1/2" |
| | | | DCF20M-12R | 20mm | 3/4" |
| | | | DCF22M-8R | 22mm | 1/2" |
| | | | DCF22M-12R | 22mm | 3/4" |
| | | | DCF22M-16R | 22mm | 1" |
| | | | DCF25M-8R | 25mm | 1/2" |
| | | | DCF25M-12R | 25mm | 3/4" |
| | | | DCF25M-16R | 25mm | 1" |



* SPECIFICATION

1. MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.]

P36 / H35 [SERIAL NO.]

MARKING2 : DK-Lok [MAT'L] R [HCN]

MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]

2. MARKING METHOD

MARKING1 : LASER MARKING

MARKING2, 3 : ROLL MARKING

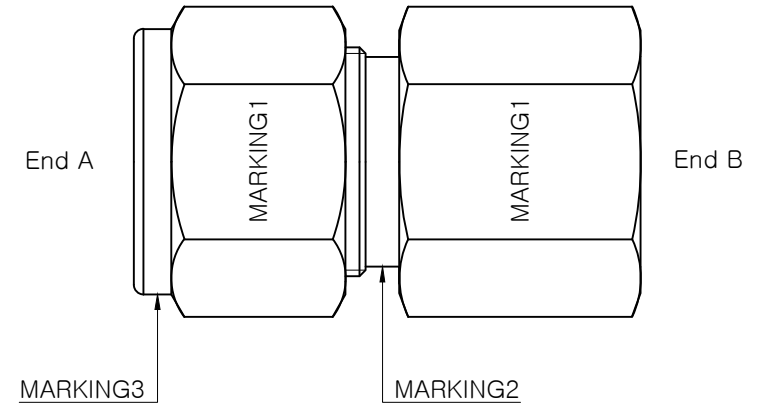
3. SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|------------|---|
| APPROVED | | TITLE DCF-R/ DK-LOK TUBE FITTING FEMALE CONNECTOR |
| REVIEWED | | |
| DESIGNED | | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DCF-R | IDK-LOK Fittings & Valves |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY | REV. NO. | REVISION NOTES | DATE |
|----------------|-----|---------------|-------------------|------|----------|---------------------|------------|
| DCFXX-XXGG-SA | 1 | BODY | ASTM A276 TYPE316 | 1 | 0 | ISSUED FOR APPROVAL | 2022.04.15 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 1 | | | |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 1 | | | |
| | 4 | NUT | ASTM A276 TYPE316 | 1 | | | |

| Part No. | End Size Tube O.D A | End Size PF THREAD B |
|----------|---------------------------|----------------------------|
| DCF2-4GG | 1/8" | 1/4" |
| DCF4-2GG | 1/4" | 1/8" |
| DCF4-4GG | 1/4" | 1/4" |
| DCF4-6GG | 1/4" | 3/8" |
| DCF4-8GG | 1/4" | 1/2" |
| DCF5-4GG | 5/16" | 1/4" |
| DCF5-8GG | 5/16" | 1/2" |
| DCF6-4GG | 3/8" | 1/4" |
| DCF6-6GG | 3/8" | 3/8" |
| DCF6-8GG | 3/8" | 1/2" |
| DCF8-4GG | 1/2" | 1/4" |
| DCF8-6GG | 1/2" | 3/8" |
| DCF8-8GG | 1/2" | 1/2" |

| Part No. | End Size Tube O.D A | End Size PF THREAD B |
|------------|---------------------------|----------------------------|
| DCF3M-4GG | 3mm | 1/4" |
| DCF6M-4GG | 6mm | 1/4" |
| DCF6M-6GG | 6mm | 3/8" |
| DCF6M-8GG | 6mm | 1/2" |
| DCF8M-4GG | 8mm | 1/4" |
| DCF8M-6GG | 8mm | 3/8" |
| DCF8M-8GG | 8mm | 1/2" |
| DCF10M-4GG | 10mm | 1/4" |
| DCF10M-6GG | 10mm | 3/8" |
| DCF10M-8GG | 10mm | 1/2" |
| DCF12M-4GG | 12mm | 1/4" |
| DCF12M-6GG | 12mm | 3/8" |
| DCF12M-8GG | 12mm | 1/2" |
| DCF20M-8GG | 20mm | 1/2" |
| DCF22M-8GG | 22mm | 1/2" |



* SPECIFICATION

1. MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.]

P36 / H35 [SERIAL NO.]

MARKING2 : DK-Lok [MAT'L] G [HCN]

MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]

2. MARKING METHOD

MARKING1 : LASER MARKING

MARKING2, 3 : ROLL MARKING

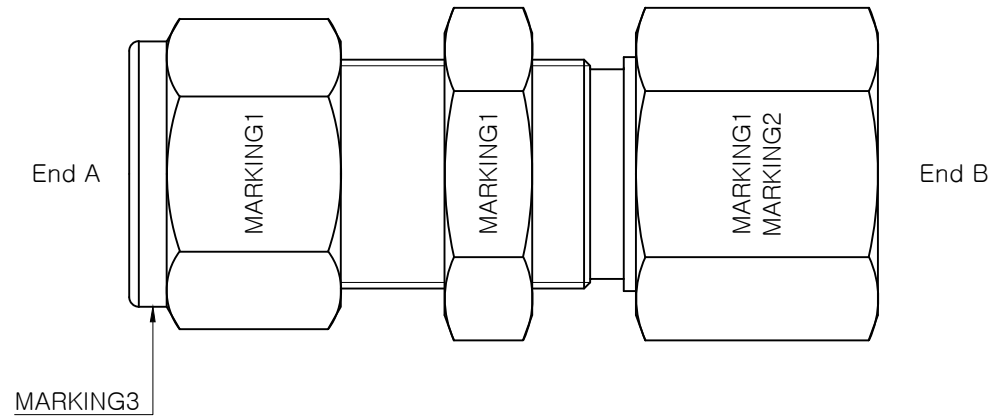
3. SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|------------|---|
| APPROVED | | TITLE DCF-GG/ DK-LOK TUBE FITTING GAUGE CONNECTOR |
| REVIEWED | | |
| DESIGNED | | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DCF-GG | IDK-LOK Fittings & Valves |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|------------------|-------------------|------|
| DCBFXX-XXN-SA | 1 | BODY | ASTM A276 TYPE316 | 1 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 1 |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 1 |
| | 4 | NUT | ASTM A276 TYPE316 | 1 |
| | 5 | BULKHEAD LOCKNUT | ASTM A276 TYPE316 | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D | End Size NPT THREAD |
|------------|----------------------|------------------------|
| | A | B |
| DCBF2-2N | 1/8" | 1/8" |
| DCBF4-2N | 1/4" | 1/8" |
| DCBF4-4N | 1/4" | 1/4" |
| DCBF6-4N | 3/8" | 1/4" |
| DCBF6-6N | 3/8" | 3/8" |
| DCBF8-6N | 1/2" | 3/8" |
| DCBF8-8N | 1/2" | 1/2" |
| DCBF12-12N | 3/4" | 3/4" |
| DCBF16-16N | 1" | 1" |
| DCBF6M-2N | 6mm | 1/8" |
| DCBF6M-4N | 6mm | 1/4" |
| DCBF8M-4N | 8mm | 1/4" |
| DCBF12M-8N | 12mm | 1/2" |



* SPECIFICATION

1. MARKING1 : ANSI NGV3.1:20 / HG V3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]

MARKING2 : DK-Lok [MAT'L] [HCN]


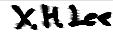

MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]

2. MARKING METHOD

MARKING1, 2 : LASER MARKING

MARKING3 : ROLL MARKING

3. SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

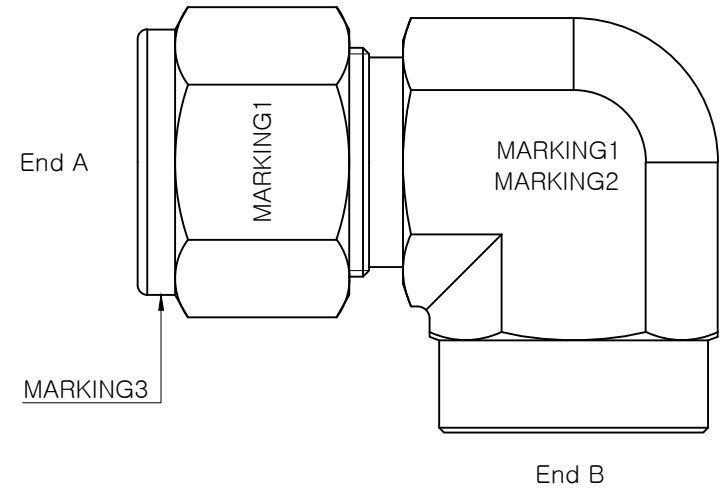
| | | |
|----------|---|--|
| APPROVED |  | TITLE |
| REVIEWED | | |
| DESIGNED |  | DCBF-N/ DK-LOK TUBE FITTING BULKHEAD FEMALE CONNECTOR |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DCBF-N |  Fittings & Valves |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|---------------|-------------------|------|
| DLFX-XXN-SA | 1 | BODY | ASTM A182 F316 | 1 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 1 |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 1 |
| | 4 | NUT | ASTM A276 TYPE316 | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size NPT THREAD B |
|-----------|---------------------------|-----------------------------|
| DLF2-2N | 1/8" | 1/8" |
| DLF2-4N | 1/8" | 1/4" |
| DLF3-2N | 3/16" | 1/8" |
| DLF4-2N | 1/4" | 1/8" |
| DLF4-4N | 1/4" | 1/4" |
| DLF4-6N | 1/4" | 3/8" |
| DLF4-8N | 1/4" | 1/2" |
| DLF5-2N | 5/16" | 1/8" |
| DLF5-4N | 5/16" | 1/4" |
| DLF6-2N | 3/8" | 1/8" |
| DLF6-4N | 3/8" | 1/4" |
| DLF6-6N | 3/8" | 3/8" |
| DLF6-8N | 3/8" | 1/2" |
| DLF8-4N | 1/2" | 1/4" |
| DLF8-6N | 1/2" | 3/8" |
| DLF8-8N | 1/2" | 1/2" |
| DLF10-6N | 5/8" | 3/8" |
| DLF10-8N | 5/8" | 1/2" |
| DLF12-8N | 3/4" | 1/2" |
| DLF12-12N | 3/4" | 3/4" |
| DLF14-12N | 7/8" | 3/4" |
| DLF16-12N | 1" | 3/4" |
| DLF16-16N | 1" | 1" |

| Part No. | End Size Tube O.D A | End Size NPT THREAD B |
|-----------|---------------------------|-----------------------------|
| DLF6M-2N | 6mm | 1/8" |
| DLF6M-4N | 6mm | 1/4" |
| DLF6M-6N | 6mm | 3/8" |
| DLF6M-8N | 6mm | 1/2" |
| DLF8M-2N | 8mm | 1/8" |
| DLF8M-4N | 8mm | 1/4" |
| DLF8M-8N | 8mm | 1/2" |
| DLF10M-2N | 10mm | 1/8" |
| DLF10M-4N | 10mm | 1/4" |
| DLF10M-6N | 10mm | 3/8" |
| DLF10M-8N | 10mm | 1/2" |
| DLF12M-4N | 12mm | 1/4" |
| DLF12M-6N | 12mm | 3/8" |
| DLF12M-8N | 12mm | 1/2" |
| DLF16M-8N | 16mm | 1/2" |



* SPECIFICATION

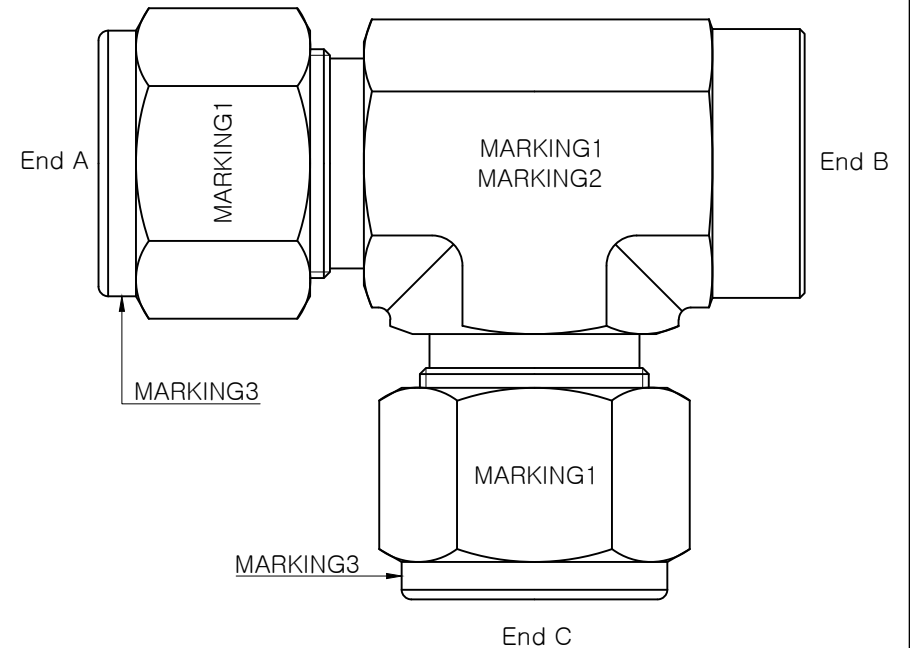
- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : [MAT'L] [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2 : PRESS MARKING
 MARKING3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|------------|---|
| APPROVED | | TITLE DLF-N/ DK-LOK TUBE FITTING FEMALE ELBOW |
| REVIEWED | | |
| DESIGNED | | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DLF-N | IDK-LOK Fittings & Valves |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY | REV. NO. | REVISION NOTES | DATE |
|----------------|-----|---------------|-------------------|------|----------|---------------------|------------|
| DTRFXX-XXN-SA | 1 | BODY | ASTM A182 F316 | 1 | 0 | ISSUED FOR APPROVAL | 2022.04.15 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 2 | | | |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 2 | | | |
| | 4 | NUT | ASTM A276 TYPE316 | 2 | | | |


| Part No. | End Size Tube O.D A | End Size NPT THREAD B | End Size Tube O.D C |
|------------|---------------------|-----------------------|---------------------|
| DTRF2-2N | 1/8" | 1/8" | 1/8" |
| DTRF2-4N | 1/8" | 1/4" | 1/8" |
| DTRF3-2N | 1/8" | 1/8" | 1/8" |
| DTRF4-2N | 1/4" | 1/8" | 1/4" |
| DTRF4-4N | 1/4" | 1/4" | 1/4" |
| DTRF4-6N | 1/4" | 3/8" | 1/4" |
| DTRF4-8N | 1/4" | 1/2" | 1/4" |
| DTRF5-2N | 5/16" | 1/8" | 5/16" |
| DTRF5-4N | 5/16" | 1/4" | 5/16" |
| DTRF6-2N | 3/8" | 1/8" | 3/8" |
| DTRF6-4N | 3/8" | 1/4" | 3/8" |
| DTRF6-6N | 3/8" | 3/8" | 3/8" |
| DTRF6-8N | 3/8" | 1/2" | 3/8" |
| DTRF8-4N | 1/2" | 1/4" | 1/2" |
| DTRF8-6N | 1/2" | 3/8" | 1/2" |
| DTRF8-8N | 1/2" | 1/2" | 1/2" |
| DTRF10-6N | 5/8" | 3/8" | 5/8" |
| DTRF10-8N | 5/8" | 1/2" | 5/8" |
| DTRF12-8N | 3/4" | 1/2" | 3/4" |
| DTRF12-12N | 3/4" | 3/4" | 3/4" |
| DTRF14-12N | 7/8" | 3/4" | 7/8" |
| DTRF16-12N | 1" | 3/4" | 1" |
| DTRF16-16N | 1" | 1" | 1" |

| Part No. | End Size Tube O.D A | End Size NPT THREAD B | End Size Tube O.D C |
|------------|---------------------|-----------------------|---------------------|
| DTRF6M-2N | 6mm | 1/8" | 6mm |
| DTRF6M-4N | 6mm | 1/4" | 6mm |
| DTRF6M-6N | 6mm | 3/8" | 6mm |
| DTRF6M-8N | 6mm | 1/2" | 6mm |
| DTRF8M-2N | 8mm | 1/8" | 8mm |
| DTRF8M-4N | 8mm | 1/4" | 8mm |
| DTRF8M-6N | 8mm | 3/8" | 8mm |
| DTRF8M-8N | 8mm | 1/2" | 8mm |
| DTRF10M-2N | 10mm | 1/8" | 10mm |
| DTRF10M-4N | 10mm | 1/4" | 10mm |
| DTRF10M-6N | 10mm | 3/8" | 10mm |
| DTRF10M-8N | 10mm | 1/2" | 10mm |
| DTRF12M-4N | 12mm | 1/4" | 12mm |
| DTRF12M-6N | 12mm | 3/8" | 12mm |
| DTRF12M-8N | 12mm | 1/2" | 12mm |
| DTRF16M-8N | 16mm | 1/2" | 16mm |



* SPECIFICATION

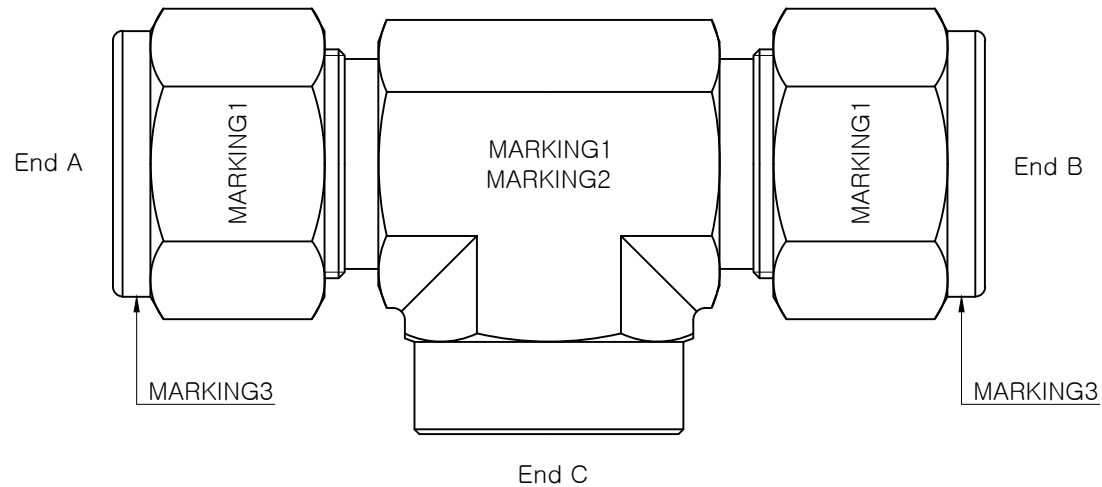
- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : [MAT'L] [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2 : PRESS MARKING
 MARKING3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|--------------------|--|
| APPROVED | <i>[Signature]</i> | TITLE DTRF-N/ DK-LOK TUBE FITTING FEMALE RUN TEE |
| REVIEWED | | |
| DESIGNED | <i>X.H Lee</i> | |
| SCALE | N/S | |
| DATE | 2022.04.15 |  Fittings & Valves |
| DWG. NO. | DTRF-N | |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|---------------|-------------------|------|
| DTBFXX-XXN-SA | 1 | BODY | ASTM A182 F316 | 1 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 2 |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 2 |
| | 4 | NUT | ASTM A276 TYPE316 | 2 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size Tube O.D B | End Size NPT THREAD C |
|------------|---------------------------|---------------------------|-----------------------------|
| DTBF2-2N | 1/8" | 1/8" | 1/8" |
| DTBF2-4N | 1/8" | 1/8" | 1/4" |
| DTBF3-2N | 3/16" | 3/16" | 1/8" |
| DTBF4-2N | 1/4" | 1/4" | 1/8" |
| DTBF4-4N | 1/4" | 1/4" | 1/4" |
| DTBF4-6N | 1/4" | 1/4" | 3/8" |
| DTBF4-8N | 1/4" | 1/4" | 1/2" |
| DTBF5-2N | 5/16" | 5/16" | 1/8" |
| DTBF5-4N | 5/16" | 5/16" | 1/4" |
| DTBF6-2N | 3/8" | 3/8" | 1/8" |
| DTBF6-4N | 3/8" | 3/8" | 1/4" |
| DTBF6-6N | 3/8" | 3/8" | 3/8" |
| DTBF6-8N | 3/8" | 3/8" | 1/2" |
| DTBF8-4N | 1/2" | 1/2" | 1/4" |
| DTBF8-6N | 1/2" | 1/2" | 3/8" |
| DTBF8-8N | 1/2" | 1/2" | 1/2" |
| DTBF10-6N | 5/8" | 5/8" | 3/8" |
| DTBF10-8N | 5/8" | 5/8" | 1/2" |
| DTBF12-12N | 3/4" | 3/4" | 3/4" |
| DTBF14-12N | 7/8" | 7/8" | 3/4" |
| DTBF16-12N | 1" | 1" | 3/4" |
| DTBF16-16N | 1" | 1" | 1" |



* SPECIFICATION

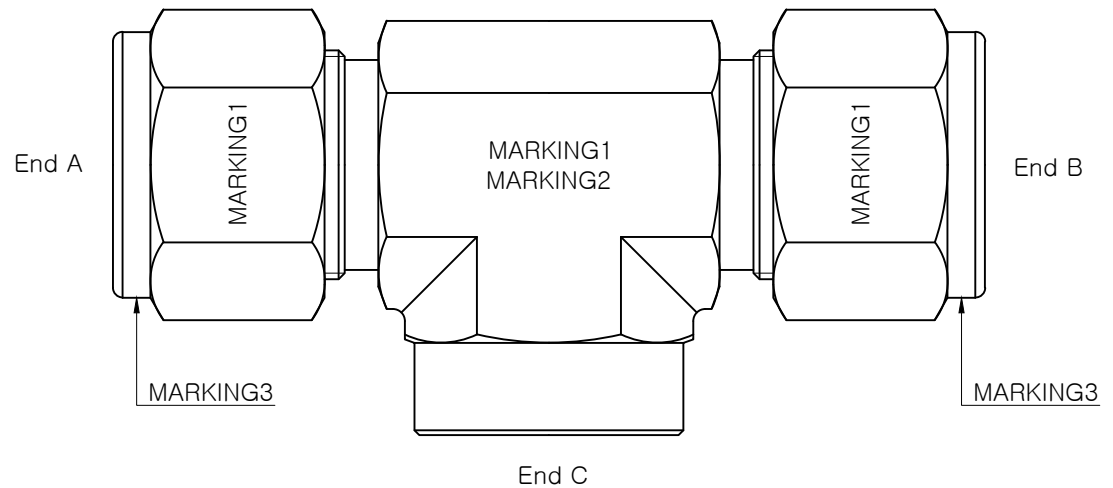
- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
MARKING2 : [MAT'L] [HCN]
MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
MARKING1 : LASER MARKING
MARKING2 : PRESS MARKING
MARKING3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|------------|---|
| APPROVED | | TITLE DTBF-N/ DK-LOK TUBE FITTING FEMALE BRANCH TEE |
| REVIEWED | | |
| DESIGNED | | |
| SCALE | N/S | |
| DATE | 2022.04.15 | Fittings & Valves |
| DWG. NO. | DTBF-N | |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|---------------|-------------------|------|
| DTBFXX-XXN-SA | 1 | BODY | ASTM A182 F316 | 1 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 2 |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 2 |
| | 4 | NUT | ASTM A276 TYPE316 | 2 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size Tube O.D B | End Size NPT THREAD C |
|------------|---------------------------|---------------------------|-----------------------------|
| DTBF6M-2N | 6mm | 6mm | 1/8" |
| DTBF6M-4N | 6mm | 6mm | 1/4" |
| DTBF6M-6N | 6mm | 6mm | 3/8" |
| DTBF6M-8N | 6mm | 6mm | 1/2" |
| DTBF8M-2N | 8mm | 8mm | 1/8" |
| DTBF8M-4N | 8mm | 8mm | 1/4" |
| DTBF8M-6N | 8mm | 8mm | 3/8" |
| DTBF8M-8N | 8mm | 8mm | 1/2" |
| DTBF10M-2N | 10mm | 10mm | 1/8" |
| DTBF10M-4N | 10mm | 10mm | 1/4" |
| DTBF10M-6N | 10mm | 10mm | 3/8" |
| DTBF10M-8N | 10mm | 10mm | 1/2" |
| DTBF12M-4N | 12mm | 12mm | 1/4" |
| DTBF12M-6N | 12mm | 12mm | 3/8" |
| DTBF12M-8N | 12mm | 12mm | 1/2" |
| DTBF16M-8N | 16mm | 16mm | 1/2" |



* SPECIFICATION

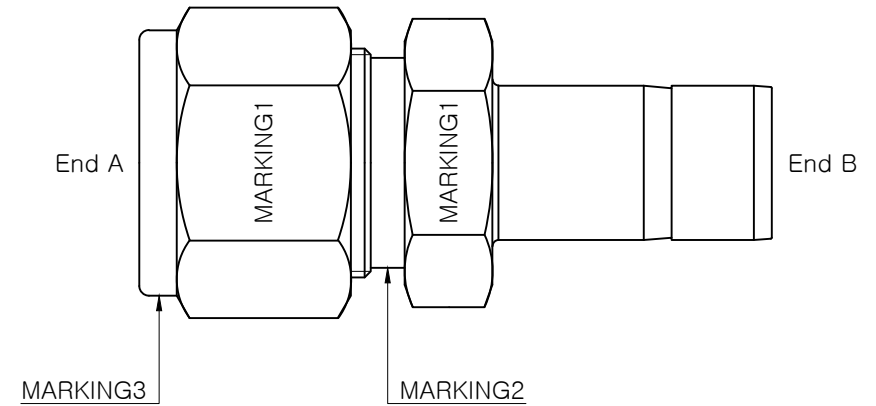
- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : [MAT'L] [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2 : PRESS MARKING
 MARKING3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|------------|---|
| APPROVED | | TITLE DTBF-N/ DK-LOK TUBE FITTING FEMALE BRANCH TEE |
| REVIEWED | | |
| DESIGNED | | |
| SCALE | N/S | |
| DATE | 2022.04.15 | Fittings & Valves |
| DWG. NO. | DTBF-N | |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|---------------|-------------------|------|
| DRXX-XX-SA | 1 | BODY | ASTM A276 TYPE316 | 1 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 1 |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 1 |
| | 4 | NUT | ASTM A276 TYPE316 | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size Tube O.D B | Part No. | End Size Tube O.D A | End Size Tube O.D B |
|----------|---------------------------|---------------------------|----------|---------------------------|---------------------------|
| DR1-2 | 1/16" | 1/8" | DR5-6 | 5/16" | 3/8" |
| DR1-4 | 1/16" | 1/4" | DR5-8 | 5/16" | 1/2" |
| DR2-1 | 1/8" | 1/16" | DR6-4 | 3/8" | 1/4" |
| DR2-2 | 1/8" | 1/8" | DR6-6 | 3/8" | 3/8" |
| DR2-3 | 1/8" | 3/16" | DR6-8 | 3/8" | 1/2" |
| DR2-4 | 1/8" | 1/4" | DR6-10 | 3/8" | 5/8" |
| DR2-6 | 1/8" | 3/8" | DR6-12 | 3/8" | 3/4" |
| DR2-8 | 1/8" | 1/2" | DR8-4 | 1/2" | 1/4" |
| DR3-2 | 3/16" | 1/8" | DR8-6 | 1/2" | 3/8" |
| DR3-4 | 3/16" | 1/4" | DR8-8 | 1/2" | 1/2" |
| DR4-2 | 1/4" | 1/8" | DR8-10 | 1/2" | 5/8" |
| DR4-3 | 1/4" | 3/16" | DR8-12 | 1/2" | 3/4" |
| DR4-4 | 1/4" | 1/4" | DR8-16 | 1/2" | 1" |
| DR4-5 | 1/4" | 5/16" | DR10-12 | 5/8" | 3/4" |
| DR4-6 | 1/4" | 3/8" | DR10-14 | 5/8" | 7/8" |
| DR4-8 | 1/4" | 1/2" | DR10-16 | 5/8" | 1" |
| DR4-10 | 1/4" | 5/8" | DR12-8 | 3/4" | 1/2" |
| DR4-12 | 1/4" | 3/4" | DR12-16 | 3/4" | 1" |



* SPECIFICATION

1. MARKING1 : ANSI NGV3.1:20 / HGVS.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]

MARKING2 : DK-Lok [MAT'L] [HCN]

MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]

2. MARKING METHOD

MARKING1 : LASER MARKING

MARKING2, 3 : ROLL MARKING

3. SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

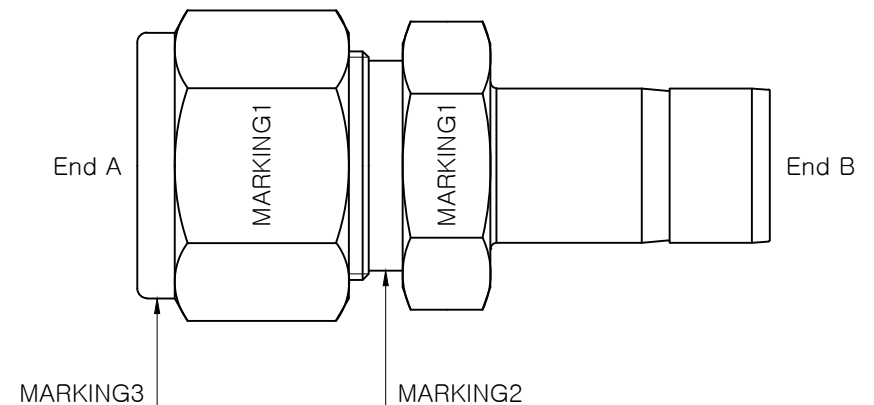
| | | |
|----------|------------|---|
| APPROVED | | TITLE DR/ DK-LOK TUBE FITTING REDUCER |
| REVIEWED | | |
| DESIGNED | | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DR | IDK-LOK Fittings & Valves |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|---------------|-------------------|------|
| DRXX-XX-SA | 1 | BODY | ASTM A276 TYPE316 | 1 |
| | 2 | FRONT FERRULE | ASTM A479 TYPE316 | 1 |
| | 3 | BACK FERRULE | ASTM A479 TYPE316 | 1 |
| | 4 | NUT | ASTM A276 TYPE316 | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size Tube O.D B |
|----------|---------------------------|---------------------------|
| DR2M-2 | 2mm | 1/8" |
| DR3M-2 | 3mm | 1/8" |
| DR3M-4 | 3mm | 1/4" |
| DR4M-4 | 4mm | 1/4" |
| DR6M-2 | 6mm | 1/8" |
| DR6M-4 | 6mm | 1/4" |
| DR6M-5 | 6mm | 5/16" |
| DR6M-6 | 6mm | 3/8" |
| DR6M-8 | 6mm | 1/2" |
| DR8M-6 | 8mm | 3/8" |
| DR8M-8 | 8mm | 1/2" |
| DR10M-6 | 10mm | 3/8" |
| DR10M-8 | 10mm | 1/2" |
| DR12M-8 | 12mm | 1/2" |
| DR12M-12 | 12mm | 3/4" |
| DR18M-12 | 18mm | 3/4" |
| DR18M-16 | 18mm | 1" |
| DR25M-16 | 25mm | 1" |
| DR2M-3M | 2mm | 3mm |
| DR3M-4M | 3mm | 4mm |
| DR3M-6M | 3mm | 6mm |
| DR3M-10M | 3mm | 10mm |
| DR4M-6M | 4mm | 6mm |
| DR6M-3M | 6mm | 3mm |
| DR6M-8M | 6mm | 8mm |
| DR6M-10M | 6mm | 10mm |
| DR6M-12M | 6mm | 12mm |
| DR8M-6M | 8mm | 6mm |

| Part No. | End Size Tube O.D A | End Size Tube O.D B |
|-----------|---------------------------|---------------------------|
| DR8M-10M | 8mm | 10mm |
| DR8M-12M | 8mm | 12mm |
| DR10M-6M | 10mm | 6mm |
| DR10M-12M | 10mm | 12mm |
| DR10M-15M | 10mm | 15mm |
| DR10M-18M | 10mm | 18mm |
| DR12M-6M | 12mm | 6mm |
| DR12M-10M | 12mm | 10mm |
| DR12M-16M | 12mm | 16mm |
| DR12M-18M | 12mm | 18mm |
| DR12M-20M | 12mm | 20mm |
| DR12M-22M | 12mm | 22mm |
| DR12M-25M | 12mm | 25mm |
| DR16M-12M | 16mm | 12mm |
| DR18M-12M | 18mm | 12mm |
| DR18M-16M | 18mm | 16mm |
| DR18M-20M | 18mm | 20mm |
| DR18M-22M | 18mm | 22mm |
| DR18M-25M | 18mm | 25mm |
| DR20M-16M | 20mm | 16mm |
| DR20M-18M | 20mm | 18mm |
| DR20M-22M | 20mm | 22mm |
| DR20M-25M | 20mm | 25mm |
| DR22M-18M | 22mm | 18mm |
| DR22M-20M | 22mm | 20mm |
| DR22M-25M | 22mm | 25mm |
| DR25M-18M | 25mm | 18mm |
| DR25M-20M | 25mm | 20mm |



* SPECIFICATION

1. MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.]
P36 / H35 [SERIAL NO.]

MARKING2 : DK-Lok [MAT'L] [HCN]

MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]

2. MARKING METHOD

MARKING1 : LASER MARKING

MARKING2, 3 : ROLL MARKING

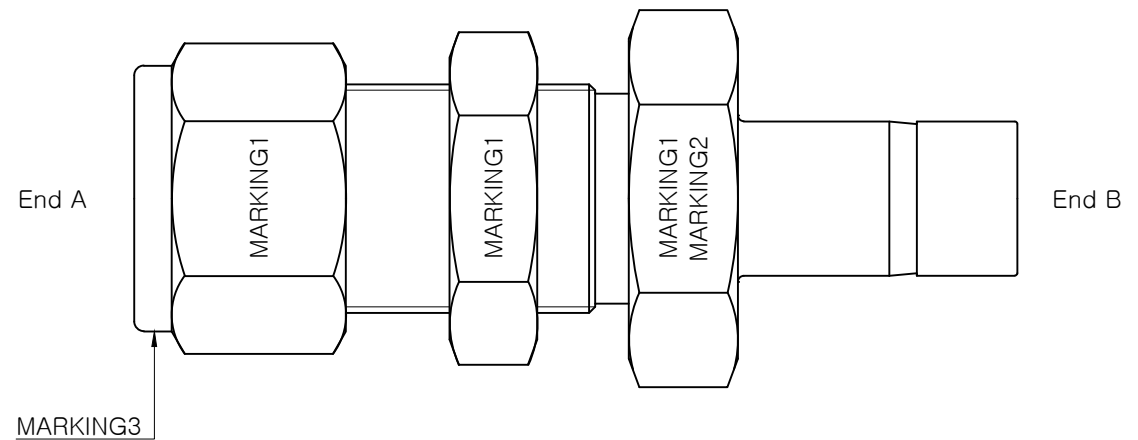
3. SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|------------|---|
| APPROVED | | TITLE DR/ DK-LOK TUBE FITTING REDUCER |
| REVIEWED | | |
| DESIGNED | | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DR | IDK-LOK Fittings & Valves |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|-------------------|--------------------|------|
| DABXX-XX-SA | 1 | BODY | ASTM A 276 TYPE316 | 1 |
| | 2 | FRONT FERRULE | ASTM A 479 TYPE316 | 1 |
| | 3 | BACK FERRULE | ASTM A 479 TYPE316 | 1 |
| | 4 | NUT | ASTM A 276 TYPE316 | 1 |
| | 5 | BULKHEAD LOCK NUT | ASTM A 276 TYPE316 | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size | End Size |
|----------|---------------|---------------|
| | Tube O.D A | Tube O.D B |
| DAB2-2 | 1/8" | 1/8" |
| DAB4-4 | 1/4" | 1/4" |
| DAB6-6 | 3/8" | 3/8" |
| DAB8-8 | 1/2" | 1/2" |
| DAB10-10 | 5/8" | 5/8" |
| DAB16-16 | 1" | 1" |



* SPECIFICATION

1. MARKING1 : ANSI NGV3.1:20 / HGV3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]

MARKING2 : DK-Lok [MAT'L] [HCN]

MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]

2. MARKING METHOD

MARKING1, 2 : LASER MARKING

MARKING3 : ROLL MARKING

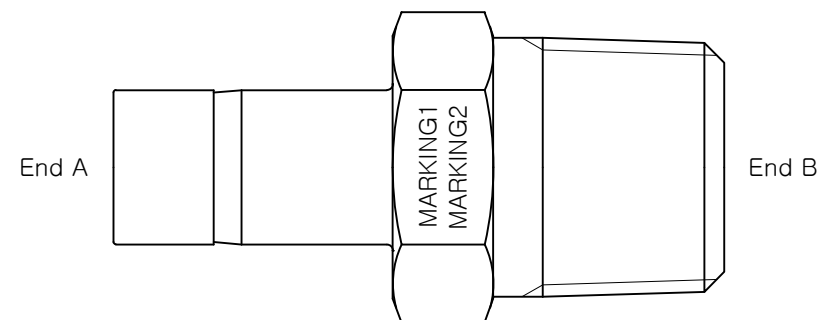
3. SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|--------------------|--|
| APPROVED | <i>[Signature]</i> | TITLE DAB / DK-LOK TUBE FITTING BULKHEAD ADAPTER |
| REVIEWED | | |
| DESIGNED | <i>X.H Lee</i> | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DAB | IDK-LOK Fittings & Valves |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY | REV. NO. | REVISION NOTES | DATE |
|----------------|-----|--------------|--------------------|------|----------|---------------------|------------|
| DAMXX-XXN-S | 1 | MALE ADAPTER | ASTM A 276 TYPE316 | 1 | 0 | ISSUED FOR APPROVAL | 2022.04.15 |


| Part No. | End Size Tube O.D A | End Size Male NPT B |
|----------|---------------------------|---------------------------|
| DAM2-2N | 1/8" | 1/8" |
| DAM2-4N | 1/8" | 1/4" |
| DAM3-2N | 3/16" | 1/8" |
| DAM3-4N | 3/16" | 1/4" |
| DAM4-2N | 1/4" | 1/8" |
| DAM4-4N | 1/4" | 1/4" |
| DAM4-6N | 1/4" | 3/8" |
| DAM4-8N | 1/4" | 1/2" |
| DAM5-2N | 5/16" | 1/8" |
| DAM5-4N | 5/16" | 1/4" |
| DAM6-2N | 3/8" | 1/8" |
| DAM6-4N | 3/8" | 1/4" |
| DAM6-6N | 3/8" | 3/8" |
| DAM6-8N | 3/8" | 1/2" |
| DAM8-4N | 1/2" | 1/4" |
| DAM8-6N | 1/2" | 3/8" |

| Part No. | End Size Tube O.D A | End Size Male NPT B |
|------------|---------------------------|---------------------------|
| DAM3M-2N | 3mm | 1/8" |
| DAM6M-2N | 6mm | 1/8" |
| DAM6M-4N | 6mm | 1/4" |
| DAM8M-4N | 8mm | 1/4" |
| DAM10M-4N | 10mm | 1/4" |
| DAM10M-6N | 10mm | 3/8" |
| DAM10M-8N | 10mm | 1/2" |
| DAM12M-4N | 12mm | 1/4" |
| DAM12M-6N | 12mm | 3/8" |
| DAM12M-8N | 12mm | 1/2" |
| DAM18M-8N | 18mm | 1/2" |
| DAM18M-12N | 18mm | 3/4" |



* SPECIFICATION

- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
MARKING2 : DK-Lok [MAT'L] [HCN]
- MARKING METHOD
MARKING1, 2 : LASER MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

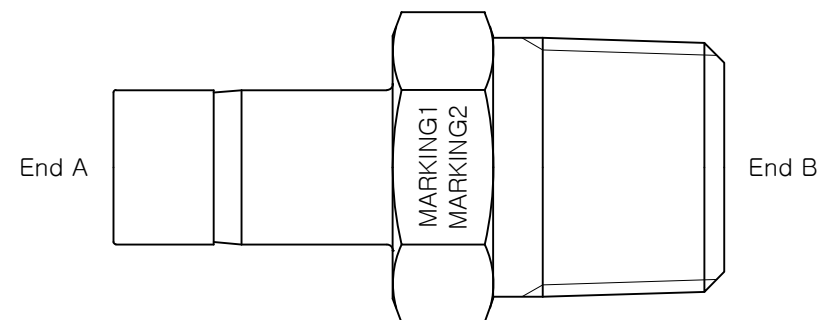
| | | |
|----------|--------------------|---|
| APPROVED | <i>[Signature]</i> | TITLE DAM-N / DK-LOK TUBE FITTING MALE ADAPTER |
| REVIEWED | | |
| DESIGNED | <i>X.H Lee</i> | |
| SCALE | N/S | |
| DATE | 2022.04.15 |  <i>Fittings & Valves</i> |
| DWG. NO. | DAM-N | |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|--------------|--------------------|------|
| DAMXX-XXR-S | 1 | MALE ADAPTER | ASTM A 276 TYPE316 | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size Male PT B |
|-----------|---------------------------|--------------------------|
| DAM2-2R | 1/8" | 1/8" |
| DAM2-4R | 1/8" | 1/4" |
| DAM4-2R | 1/4" | 1/8" |
| DAM4-4R | 1/4" | 1/4" |
| DAM4-6R | 1/4" | 3/8" |
| DAM6-4R | 3/8" | 1/4" |
| DAM6-6R | 3/8" | 3/8" |
| DAM6-8R | 3/8" | 1/2" |
| DAM8-4R | 1/2" | 1/4" |
| DAM8-6R | 1/2" | 3/8" |
| DAM8-8R | 1/2" | 1/2" |
| DAM8-12R | 1/2" | 3/4" |
| DAM12-8R | 3/4" | 1/2" |
| DAM12-12R | 3/4" | 3/4" |

| Part No. | End Size Tube O.D A | End Size Male PT B |
|------------|---------------------------|--------------------------|
| DAM3M-2R | 3mm | 1/8" |
| DAM6M-2R | 6mm | 1/8" |
| DAM6M-4R | 6mm | 1/4" |
| DAM8M-4R | 8mm | 1/4" |
| DAM10M-4R | 10mm | 1/4" |
| DAM10M-6R | 10mm | 3/8" |
| DAM10M-8R | 10mm | 1/2" |
| DAM12M-4R | 12mm | 1/4" |
| DAM12M-6R | 12mm | 3/8" |
| DAM12M-8R | 12mm | 1/2" |
| DAM18M-8R | 18mm | 1/2" |
| DAM18M-12R | 18mm | 3/4" |
| DAM25M-16R | 25mm | 1" |



* SPECIFICATION

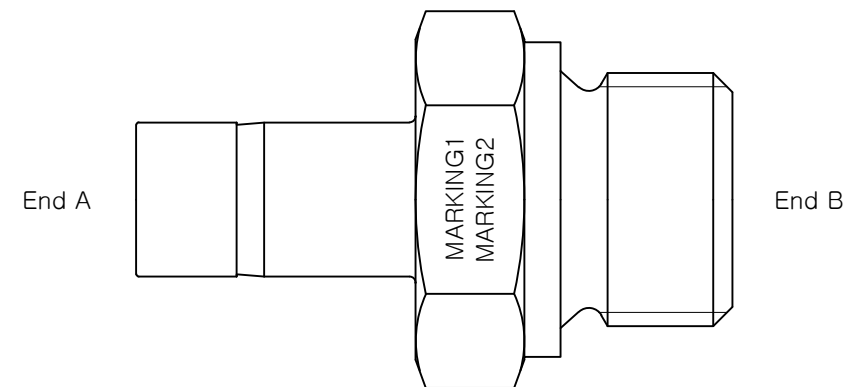
- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
MARKING2 : DK-Lok [MAT'L] R [HCN]
- MARKING METHOD
MARKING1, 2 : LASER MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|--------------------|--|
| APPROVED | <i>[Signature]</i> | TITLE DAM-R / DK-LOK TUBE FITTING MALE ADAPTER |
| REVIEWED | | |
| DESIGNED | <i>X.H Lee</i> | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DAM-R | |

| | | | | | | | |
|----------------|-----|--------------|--------------------|------|----------|---------------------|------------|
| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY | REV. NO. | REVISION NOTES | DATE |
| DAMXX-XXG-S | 1 | MALE ADAPTER | ASTM A 276 TYPE316 | 1 | 0 | ISSUED FOR APPROVAL | 2022.04.15 |


| Part No. | End Size Tube O.D A | End Size Male PF B |
|-----------|---------------------------|--------------------------|
| DAM2-2G | 1/8" | 1/8" |
| DAM2-4G | 1/8" | 1/4" |
| DAM4-2G | 1/4" | 1/8" |
| DAM4-4G | 1/4" | 1/4" |
| DAM6-4G | 3/8" | 1/4" |
| DAM6-6G | 3/8" | 3/8" |
| DAM8-4G | 1/2" | 1/4" |
| DAM8-6G | 1/2" | 3/8" |
| DAM8-8G | 1/2" | 1/2" |
| DAM12-12G | 3/4" | 3/4" |
| DAM16-16G | 1" | 1" |

| Part No. | End Size Tube O.D A | End Size Male PF B |
|------------|---------------------------|--------------------------|
| DAM6M-2G | 6mm | 1/8" |
| DAM6M-4G | 6mm | 1/4" |
| DAM8M-4G | 8mm | 1/4" |
| DAM10M-4G | 10mm | 1/4" |
| DAM10M-6G | 10mm | 3/8" |
| DAM10M-8G | 10mm | 1/2" |
| DAM12M-4G | 12mm | 1/4" |
| DAM12M-6G | 12mm | 3/8" |
| DAM12M-8G | 12mm | 1/2" |
| DAM18M-8G | 18mm | 1/2" |
| DAM18M-12G | 18mm | 3/4" |
| DAM22M-12G | 22mm | 3/4" |
| DAM25M-16G | 25mm | 1" |



* SPECIFICATION

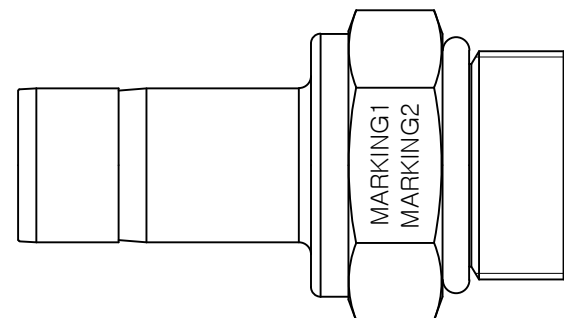
- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
MARKING2 : DK-Lok [MAT'L] G [HCN]
- MARKING METHOD
MARKING1, 2 : LASER MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|--------------------|---|
| APPROVED | <i>[Signature]</i> | TITLE DAM-G / DK-LOK TUBE FITTING MALE ADAPTER |
| REVIEWED | | |
| DESIGNED | <i>X.H Lee</i> | |
| SCALE | N/S | |
| DATE | 2022.04.15 |  <i>Fittings & Valves</i> |
| DWG. NO. | DAM-G | |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|-------------|--------------------|------|
| DAMXX-XXU-SA | 1 | BODY | ASTM A 276 TYPE316 | 1 |
| | 2 | O-RING | NBR | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size Male Unified B |
|-----------|------------------------|----------------------------|
| DAM2-2U | 1/8" | 5/16-24UN |
| DAM4-4U | 1/4" | 7/16-20UNF |
| DAM6-4U | 3/8" | 7/16-20UNF |
| DAM6-6U | 3/8" | 9/16-18UNF |
| DAM6-8U | 3/8" | 3/4-16UNF |
| DAM8-6U | 1/2" | 9/16-18UNF |
| DAM8-8U | 1/2" | 3/4-16UNF |
| DAM12-12U | 3/4" | 1-1/16-12UN |
| DAM16-16U | 1" | 1-5/16-12UN |



* SPECIFICATION

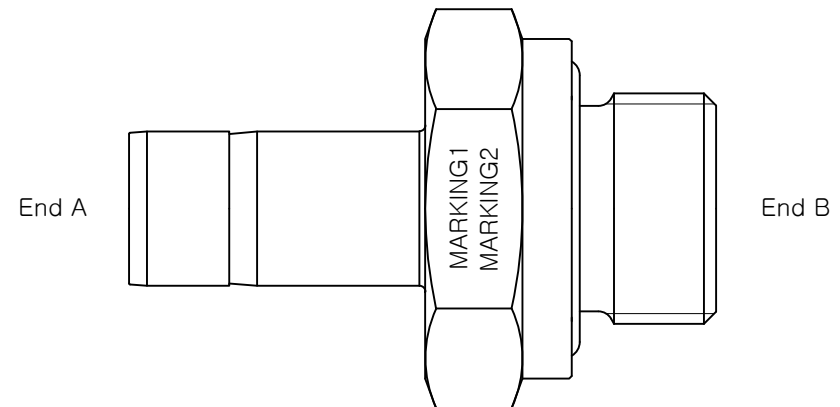
- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
MARKING2 : DK-Lok [MAT'L] U [HCN]
- MARKING METHOD
MARKING1, 2 : LASER MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|------------|---|
| APPROVED | | TITLE |
| REVIEWED | | |
| DESIGNED | | DAM-U / DK-LOK TUBE FITTING MALE ADAPTER |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DAM-U | IDK-LOK Fittings & Valves |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|-------------|--------------------|------|
| DAMXX-XXUO-SA | 1 | BODY | ASTM A 276 TYPE316 | 1 |
| | 2 | O-RING | NBR | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size Male Unified B |
|----------|------------------------|----------------------------|
| DAM2-2UO | 1/8" | 5/16-24UN |
| DAM3-3UO | 3/16" | 3/8-24UNF |
| DAM4-4UO | 1/4" | 7/16-20UNF |
| DAM5-5UO | 5/16" | 1/2-20UNF |
| DAM6-6UO | 3/8" | 9/16-18UNF |
| DAM8-8UO | 1/2" | 3/4-16UNF |



* SPECIFICATION

- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
MARKING2 : DK-Lok [MAT'L] U [HCN]
- MARKING METHOD
MARKING1, 2 : LASER MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

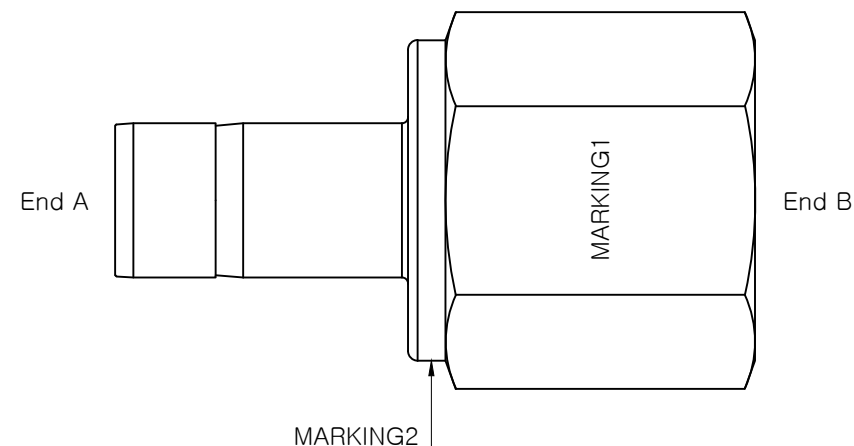
| | | |
|----------|------------|---|
| APPROVED | | TITLE DAM-UO / DK-LOK TUBE FITTING MALE ADAPTER |
| REVIEWED | | |
| DESIGNED | X.H. Lee | |
| SCALE | N/S | |
| DATE | 2022.04.15 | Fittings & Valves |
| DWG. NO. | DAM-UO | |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|----------------|--------------------|------|
| DAFXX-XXN-S | 1 | FEMALE ADAPTER | ASTM A 276 TYPE316 | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size Female NPT B |
|-----------|---------------------------|-----------------------------|
| DAF2-2N | 1/8" | 1/8" |
| DAF2-4N | 1/8" | 1/4" |
| DAF3-2N | 3/16" | 1/8" |
| DAF3-4N | 3/16" | 1/4" |
| DAF4-2N | 1/4" | 1/8" |
| DAF4-4N | 1/4" | 1/4" |
| DAF4-6N | 1/4" | 3/8" |
| DAF4-8N | 1/4" | 1/2" |
| DAF5-2N | 5/16" | 1/8" |
| DAF5-4N | 5/16" | 1/4" |
| DAF6-2N | 3/8" | 1/8" |
| DAF6-4N | 3/8" | 1/4" |
| DAF6-6N | 3/8" | 3/8" |
| DAF6-8N | 3/8" | 1/2" |
| DAF8-4N | 1/2" | 1/4" |
| DAF8-6N | 1/2" | 3/8" |
| DAF8-8N | 1/2" | 1/2" |
| DAF10-6N | 5/8" | 3/8" |
| DAF10-8N | 5/8" | 1/2" |
| DAF10-12N | 5/8" | 3/4" |
| DAF12-8N | 3/4" | 1/2" |
| DAF12-12N | 3/4" | 3/4" |
| DAF12-16N | 3/4" | 1" |
| DAF14-12N | 7/8" | 3/4" |
| DAF16-12N | 1" | 3/4" |
| DAF16-16N | 1" | 1" |

| Part No. | End Size Tube O.D A | End Size Female NPT B |
|-----------|---------------------------|-----------------------------|
| DAM6M-2N | 6mm | 1/8" |
| DAM6M-4N | 6mm | 1/4" |
| DAM8M-4N | 8mm | 1/4" |
| DAM10M-4N | 10mm | 1/4" |
| DAM10M-6N | 10mm | 3/8" |
| DAM10M-8N | 10mm | 1/2" |
| DAM12M-4N | 12mm | 1/4" |
| DAM12M-6N | 12mm | 3/8" |
| DAM12M-8N | 12mm | 1/2" |



* SPECIFICATION

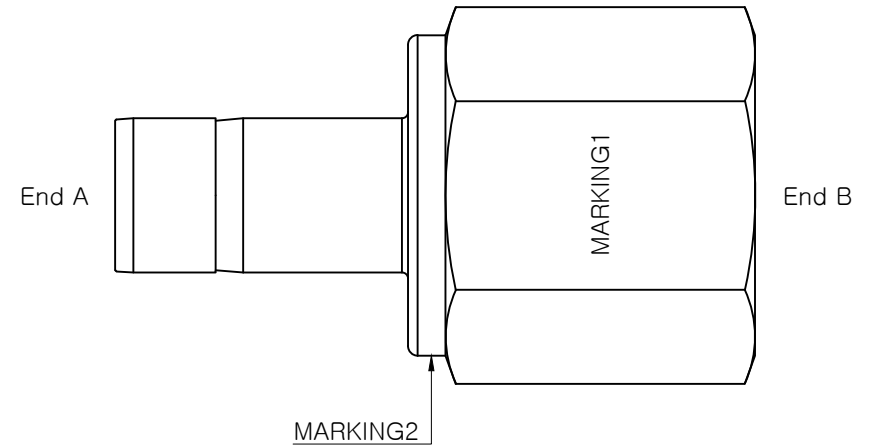
- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.]
P36 / H35 [SERIAL NO.]
MARKING2 : DK-Lok [MAT'L] [HCN]
- MARKING METHOD
MARKING1 : LASER MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|------------|--|
| APPROVED | | TITLE DAF-N / DK-LOK TUBE FITTING FEMALE ADAPTER |
| REVIEWED | | |
| DESIGNED | X.H Lee | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DAF-N | IDK-LOK Fittings & Valves |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|----------------|--------------------|------|
| DAFXX-XXR-S | 1 | FEMALE ADAPTER | ASTM A 276 TYPE316 | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size Female PT B |
|-----------|---------------------------|----------------------------|
| DAF4-2R | 1/8" | 1/8" |
| DAF4-4R | 1/8" | 1/4" |
| DAF6-4R | 3/16" | 1/8" |
| DAF6-6R | 3/16" | 1/4" |
| DAF8-4R | 1/4" | 1/8" |
| DAF8-6R | 1/4" | 1/4" |
| DAF8-8R | 1/4" | 3/8" |
| DAF10-8R | 1/4" | 1/2" |
| DAF12-8R | 5/16" | 1/8" |
| DAF12-12R | 5/16" | 1/4" |
| DAF16-16R | 3/8" | 1/8" |
| DAF6M-2R | 6mm | 1/8" |
| DAF6M-4R | 6mm | 1/4" |
| DAF8M-4R | 8mm | 1/4" |
| DAF10M-4R | 10mm | 1/4" |
| DAF10M-6R | 10mm | 3/8" |
| DAF12M-4R | 10mm | 1/2" |
| DAF12M-6R | 12mm | 1/4" |
| DAF12M-8R | 12mm | 3/8" |



* SPECIFICATION

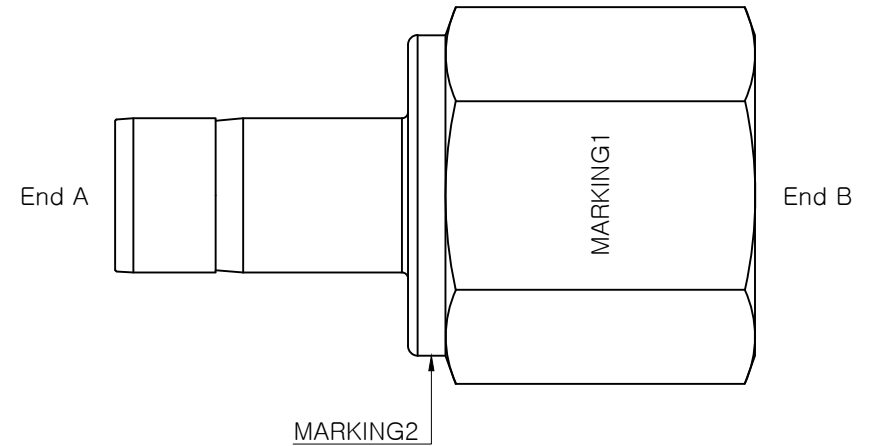
- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.]
P36 / H35 [SERIAL NO.]
MARKING2 : DK-Lok [MAT'L] R [HCN]
- MARKING METHOD
MARKING1 : LASER MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|--------------------|--|
| APPROVED | <i>[Signature]</i> | TITLE DAF-R / DK-LOK TUBE FITTING FEMALE ADAPTER |
| REVIEWED | | |
| DESIGNED | <i>X.H Lee</i> | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DAF-R | IDK-LOK Fittings & Valves |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|----------------|--------------------|------|
| DAMXX-XXGR-S | 1 | FEMALE ADAPTER | ASTM A 276 TYPE316 | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size Female PF B |
|------------|------------------------|-------------------------|
| DAF4-2GR | 1/4" | 1/8" |
| DAF4-4GR | 1/4" | 1/4" |
| DAF6-4GR | 3/8" | 1/4" |
| DAF6-6GR | 3/8" | 3/8" |
| DAF8-8GR | 1/2" | 1/2" |
| DAF6M-2GR | 6mm | 1/8" |
| DAF6M-4GR | 6mm | 1/4" |
| DAF12M-8GR | 12mm | 1/2" |



* SPECIFICATION

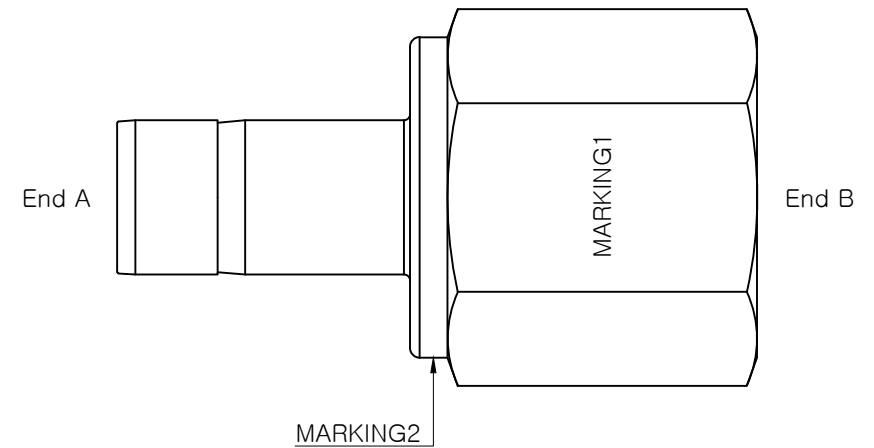
- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.]
P36 / H35 [SERIAL NO.]
MARKING2 : DK-Lok [MAT'L] G [HCN]
- MARKING METHOD
MARKING1 : LASER MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|----------------|---|
| APPROVED | | TITLE DAF-GR / DK-LOK TUBE FITTING FEMALE ADAPTER |
| REVIEWED | | |
| DESIGNED | X.H.Lee | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DAF-GR | IDK-LOK Fittings & Valves |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|----------------|--------------------|------|
| DAFXX-XXGG-S | 1 | FEMALE ADAPTER | ASTM A 276 TYPE316 | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size Female PF B |
|------------|------------------------|-------------------------|
| DAF4-2GG | 1/4" | 1/8" |
| DAF4-4GG | 1/4" | 1/4" |
| DAF6-6GG | 3/8" | 3/8" |
| DAF8-8GG | 1/2" | 1/2" |
| DAF6M-2GG | 6mm | 1/8" |
| DAF6M-4GG | 6mm | 1/4" |
| DAF6M-6GG | 6mm | 3/8" |
| DAF6M-8GG | 6mm | 1/2" |
| DAF8M-4GG | 8mm | 1/4" |
| DAF8M-6GG | 8mm | 3/8" |
| DAF8M-8GG | 8mm | 1/2" |
| DAF10M-4GG | 10mm | 1/4" |
| DAF10M-6GG | 10mm | 3/8" |
| DAF10M-8GG | 10mm | 1/2" |
| DAF12M-4GG | 12mm | 1/4" |
| DAF12M-6GG | 12mm | 3/8" |
| DAF12M-8GG | 12mm | 1/2" |
| DAF15M-8GG | 15mm | 1/2" |
| DAF16M-8GG | 16mm | 1/2" |
| DAF18M-8GG | 18mm | 1/2" |
| DAF22M-8GG | 22mm | 1/2" |
| DAF25M-8GG | 25mm | 1/2" |



* SPECIFICATION

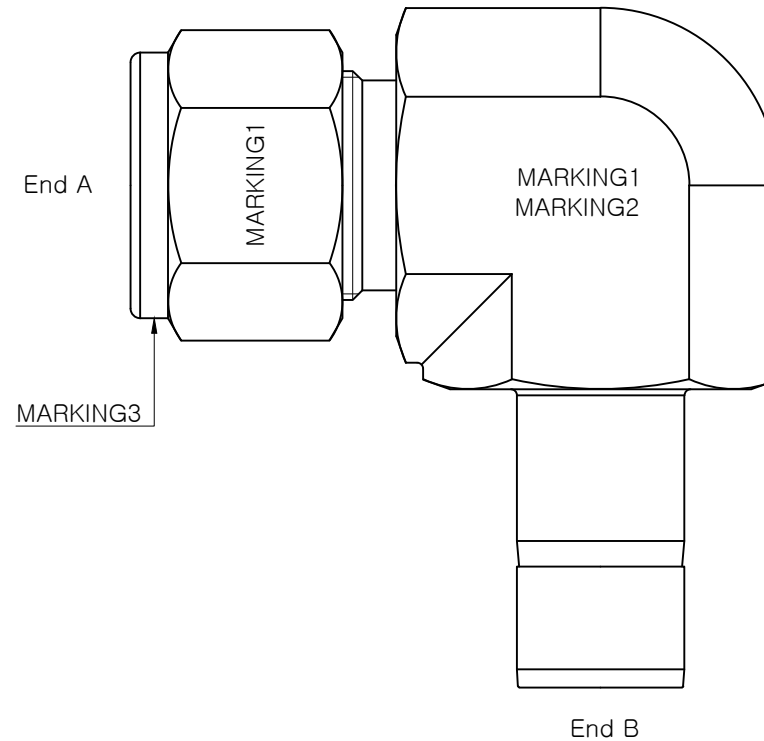
- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.]
P36 / H35 [SERIAL NO.]
MARKING2 : DK-Lok [MAT'L] G [HCN]
- MARKING METHOD
MARKING1 : LASER MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|------------|---|
| APPROVED | | TITLE DAF-GG / DK-LOK TUBE FITTING FEMALE ADAPTER |
| REVIEWED | | |
| DESIGNED | X.H.Lee | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DAF-GG | IDK-LOK Fittings & Valves |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|---------------|--------------------|------|
| DLA-XX-SA | 1 | BODY | ASTM A 182 F316 | 1 |
| | 2 | FRONT FERRULE | ASTM A 479 TYPE316 | 1 |
| | 3 | BACK FERRULE | ASTM A 479 TYPE316 | 1 |
| | 4 | NUT | ASTM A 276 TYPE316 | 1 |


| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size Tube O.D B |
|----------|------------------------|------------------------|
| DLA-6M | 6mm | 6mm |
| DLA-8M | 8mm | 8mm |
| DLA-10M | 10mm | 10mm |
| DLA-12M | 12mm | 12mm |
| DLA-14M | 14mm | 14mm |
| DLA-15M | 15mm | 15mm |
| DLA-16M | 16mm | 16mm |
| DLA-18M | 18mm | 18mm |
| DLA-20M | 20mm | 20mm |
| DLA-22M | 22mm | 22mm |
| DLA-25M | 25mm | 25mm |



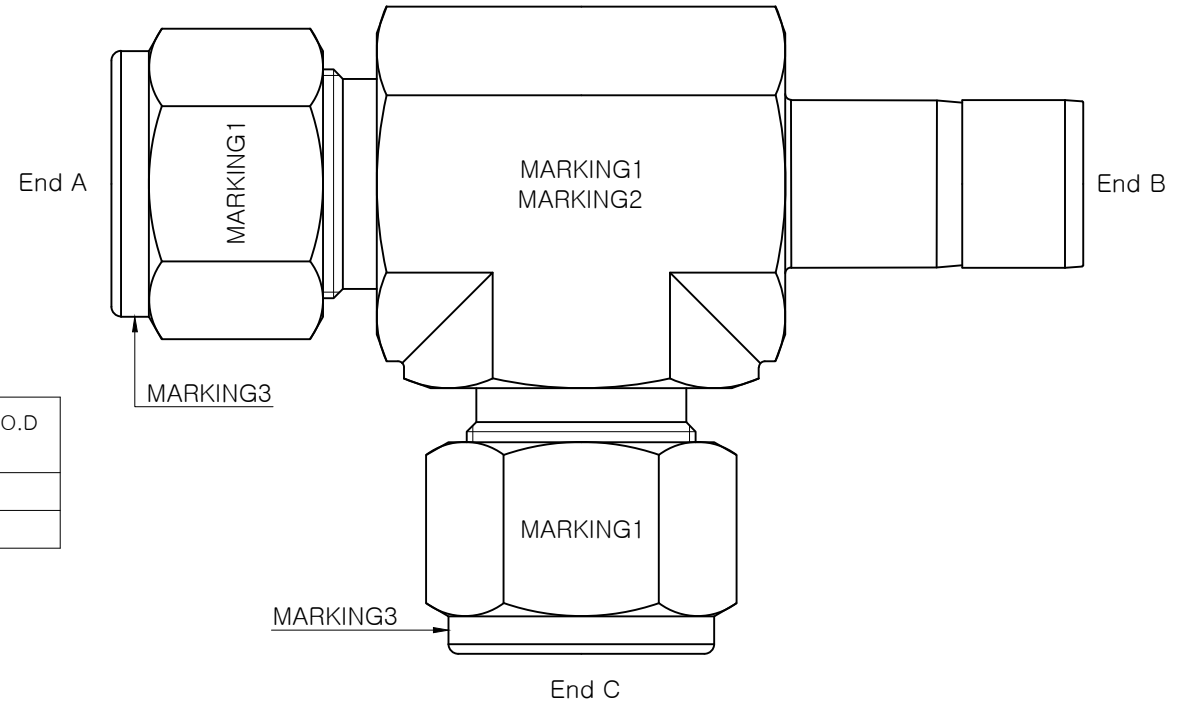
* SPECIFICATION

- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : [MAT'L] [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2 : PRESS MARKING
 MARKING3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|--------------------|---|
| APPROVED | <i>[Signature]</i> | TITLE DLA / DK-LOK TUBE FITTING ELBOW ADAPTER |
| REVIEWED | | |
| DESIGNED | <i>X.H Lee</i> | |
| SCALE | N/S | |
| DATE | 2022.04.15 |  <i>Fittings & Valves</i> |
| DWG. NO. | DLA | |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|---------------|--------------------|------|
| DTRA-XX-SA | 1 | BODY | ASTM A 182 F316 | 1 |
| | 2 | FRONT FERRULE | ASTM A 479 TYPE316 | 2 |
| | 3 | BACK FERRULE | ASTM A 479 TYPE316 | 2 |
| | 4 | NUT | ASTM A 276 TYPE316 | 2 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |



| Part No. | End Size Tube O.D A | End Size Tube O.D B | End Size Tube O.D C |
|----------|------------------------|------------------------|------------------------|
| DTRA-8M | 8mm | 8mm | 8mm |
| DTRA-10M | 10mm | 10mm | 10mm |

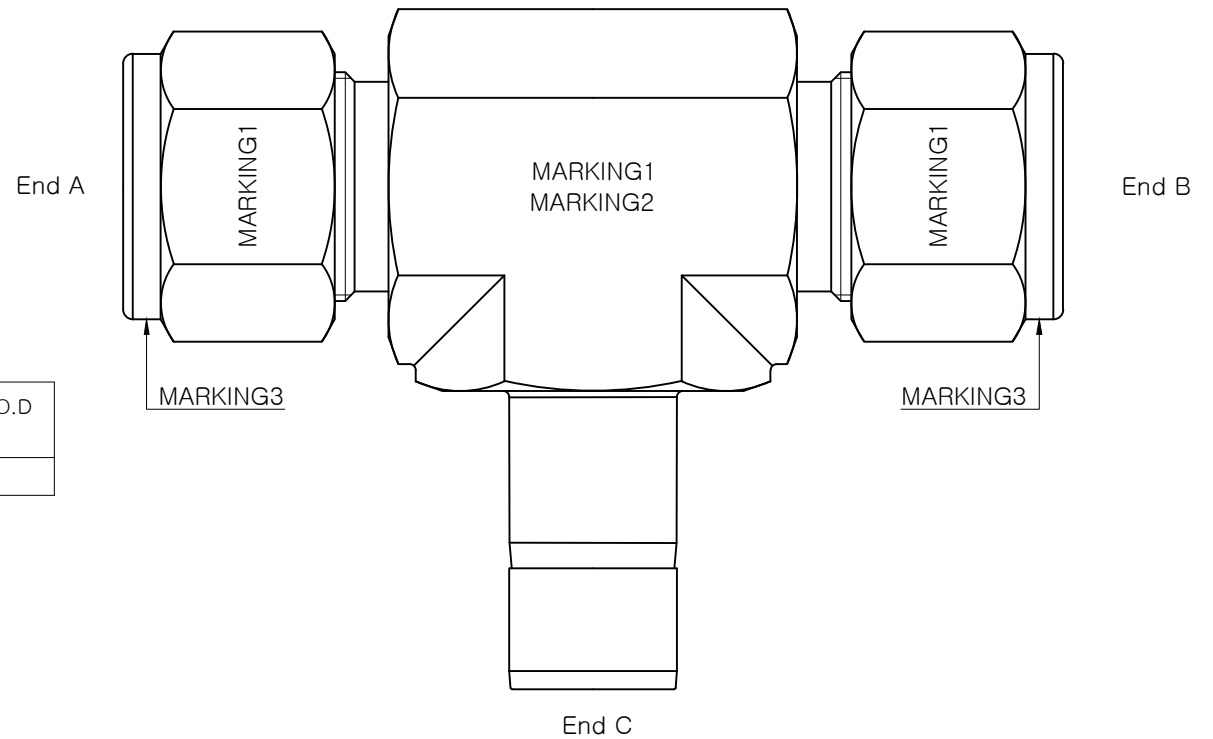
* SPECIFICATION

- MARKING1 : ANSI NGV3.1:20 / HGV3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : [MAT'L] [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2 : PRESS MARKING
 MARKING3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|------------|--|
| APPROVED | | TITLE DTRA / DK-LOK TUBE FITTING RUN TEE ADAPTER |
| REVIEWED | | |
| DESIGNED | | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DTRA | IDK-LOK Fittings & Valves |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|---------------|--------------------|------|
| DTBA-XX-SA | 1 | BODY | ASTM A 182 F316 | 1 |
| | 2 | FRONT FERRULE | ASTM A 479 TYPE316 | 2 |
| | 3 | BACK FERRULE | ASTM A 479 TYPE316 | 2 |
| | 4 | NUT | ASTM A 276 TYPE316 | 2 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |



| Part No. | End Size Tube O.D A | End Size Tube O.D B | End Size Tube O.D C |
|----------|------------------------|------------------------|------------------------|
| DTBA-8M | 8mm | 8mm | 8mm |

* SPECIFICATION

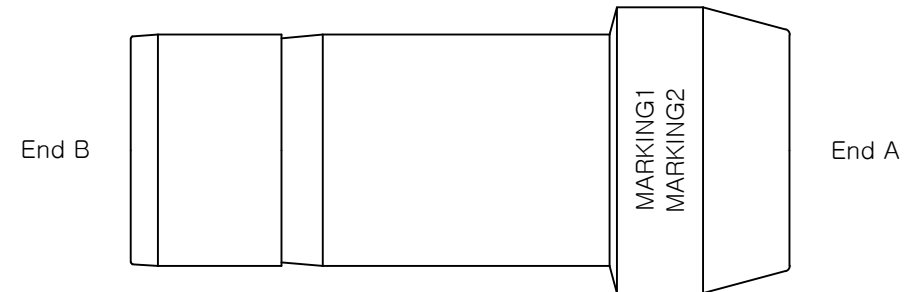
- MARKING1 : ANSI NGV3.1:20 / HGV3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : [MAT'L] [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2 : PRESS MARKING
 MARKING3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|------------|---|
| APPROVED | | TITLE DTRA / DK-LOK TUBE FITTING BRANCH TEE ADAPTER |
| REVIEWED | | |
| DESIGNED | | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DTBA | IDK-LOK Fittings & Valves |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|----------------|--------------------|------|
| DCP-XX-S | 1 | PORT CONNECTOR | ASTM A 276 TYPE316 | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size Tube O.D B |
|----------|------------------------|------------------------|
| DCP-1 | 1/16" | 1/16" |
| DCP-2 | 1/8" | 1/8" |
| DCP-4 | 1/4" | 1/4" |
| DCP-5 | 5/16" | 5/16" |
| DCP-6 | 3/8" | 3/8" |
| DCP-8 | 1/2" | 1/2" |
| DCP-12 | 3/4" | 3/4" |
| DCP-16 | 1" | 1" |
| DCP-3M | 3mm | 3mm |
| DCP-4M | 4mm | 4mm |
| DCP-6M | 6mm | 6mm |
| DCP-8M | 8mm | 8mm |
| DCP-10M | 10mm | 10mm |
| DCP-12M | 12mm | 12mm |
| DCP-15M | 15mm | 15mm |
| DCP-16M | 16mm | 16mm |
| DCP-18M | 18mm | 18mm |
| DCP-20M | 20mm | 20mm |
| DCP-22M | 22mm | 22mm |
| DCP-25M | 25mm | 25mm |



* SPECIFICATION

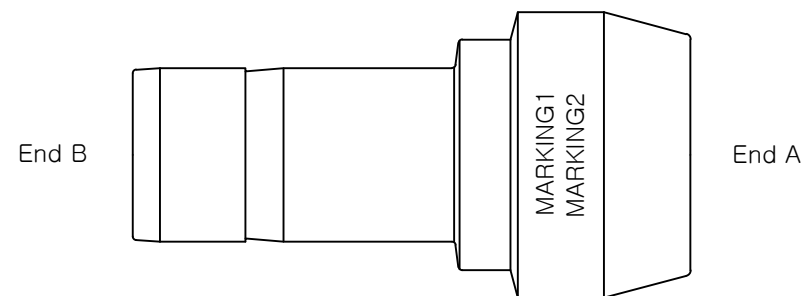
- MARKING1 : ANSI NGV3.1:20 / HGV3.1-2015 TUV SUD PART NO. P36 / H35 SERIAL NO.
 MARKING2 : DK-Lok MAT'L HCN
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|-----------------|---|
| APPROVED | | TITLE DCP/ DK-LOK TUBE FITTING PORT CONNECTOR |
| REVIEWED | | |
| DESIGNED | X.H. Lee | |
| SCALE | N/S | |
| DATE | 2022.04.15 | IDK-LOK Fittings & Valves |
| DWG. NO. | DCP | |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|-------------------------|--------------------|------|
| DCRP-XX-S | 1 | REDUCING PORT CONNECTOR | ASTM A 276 TYPE316 | 1 |


| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size Tube O.D B |
|-------------|------------------------|------------------------|
| DCRP2-1 | 1/8" | 1/16" |
| DCRP4-2 | 1/4" | 1/8" |
| DCRP6-2 | 3/8" | 1/8" |
| DCRP6-4 | 3/8" | 1/4" |
| DCRP8-4 | 1/2" | 1/4" |
| DCRP8-6 | 1/2" | 3/8" |
| DCRP12-8 | 3/4" | 1/2" |
| DCRP16-8 | 1" | 1/2" |
| DCRP16-12 | 1" | 3/4" |
| DCRP6M-3M | 6mm | 3mm |
| DCRP8M-6M | 8mm | 6mm |
| DCRP10M-6M | 10mm | 6mm |
| DCRP10M-8M | 10mm | 8mm |
| DCRP12M-6M | 12mm | 6mm |
| DCRP12M-8M | 12mm | 8mm |
| DCRP12M-10M | 12mm | 10mm |
| DCRP16M-6M | 16mm | 6mm |
| DCRP16M-12M | 16mm | 12mm |



* SPECIFICATION

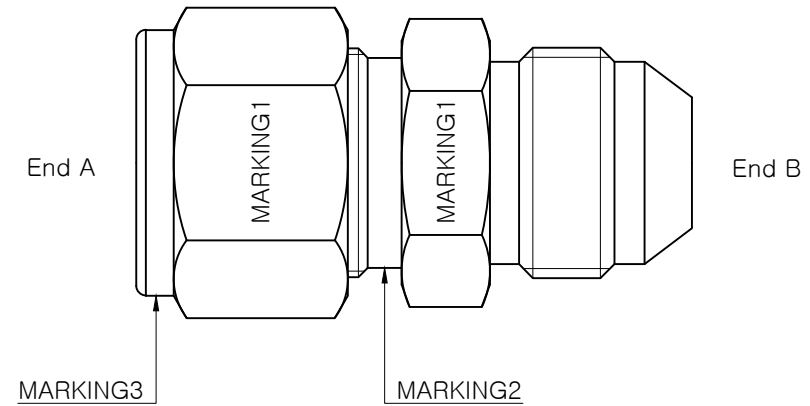
- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
MARKING2 : DK-Lok [MAT'L] [HCN]
- MARKING METHOD
MARKING1 : LASER MARKING
MARKING2 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|--------------------|---|
| APPROVED | <i>[Signature]</i> | TITLE DCRP/ DK-LOK TUBE FITTING REDUCING PORT CONNECTOR |
| REVIEWED | | |
| DESIGNED | <i>X.H Lee</i> | |
| SCALE | N/S | |
| DATE | 2022.04.15 |  <i>Fittings & Valves</i> |
| DWG. NO. | DCRP | |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|---------------|--------------------|------|
| DUAXX-XX-SA | 1 | BODY | ASTM A 276 TYPE316 | 1 |
| | 2 | FRONT FERRULE | ASTM A 479 TYPE316 | 1 |
| | 3 | BACK FERRULE | ASTM A 479 TYPE316 | 1 |
| | 4 | NUT | ASTM A 276 TYPE316 | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size AN Tube Flare Size B |
|----------|---------------------------|-------------------------------------|
| DUA1-2 | 1/16" | 1/8" |
| DUA2-2 | 1/8" | 1/8" |
| DUA2-4 | 1/8" | 1/4" |
| DUA4-4 | 1/4" | 1/4" |
| DUA5-5 | 5/16" | 5/16" |
| DUA6-4 | 3/8" | 1/4" |
| DUA6-6 | 3/8" | 3/8" |
| DUA8-8 | 1/2" | 1/2" |
| DUA12-12 | 3/4" | 3/4" |
| DUA16-16 | 1" | 1" |



* SPECIFICATION

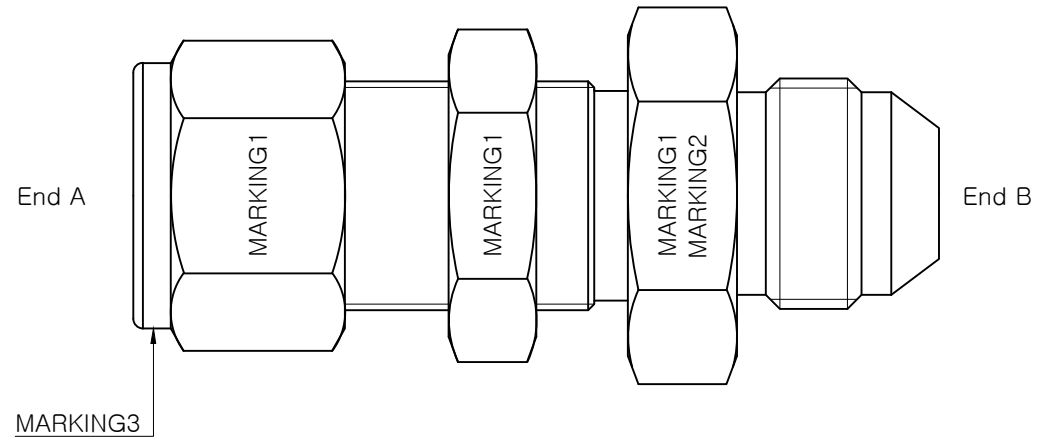
- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : DK-Lok [MAT'L] [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2, 3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|------------|--|
| APPROVED | | TITLE DUA / DK-LOK TUBE FITTING AN UNION |
| REVIEWED | | |
| DESIGNED | | |
| SCALE | N/S | |
| DATE | 2022.04.15 | Fittings & Valves |
| DWG. NO. | DUA | |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|-------------------|--------------------|------|
| DUBAXX-XX-SA | 1 | BODY | ASTM A 276 TYPE316 | 1 |
| | 2 | FRONT FERRULE | ASTM A 479 TYPE316 | 2 |
| | 3 | BACK FERRULE | ASTM A 479 TYPE316 | 2 |
| | 4 | NUT | ASTM A 276 TYPE316 | 2 |
| | 5 | BULKHEAD LOCK NUT | ASTM A 276 TYPE316 | 1 |


| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size AN Tube Flare Size B |
|-----------|---------------------------|-------------------------------------|
| DUBA2-2 | 1/8" | 1/8" |
| DUBA4-4 | 1/4" | 1/4" |
| DUBA6-6 | 3/8" | 3/8" |
| DUBA8-8 | 1/2" | 1/2" |
| DUBA12-12 | 3/4" | 3/4" |
| DUBA16-16 | 1" | 1" |



* SPECIFICATION

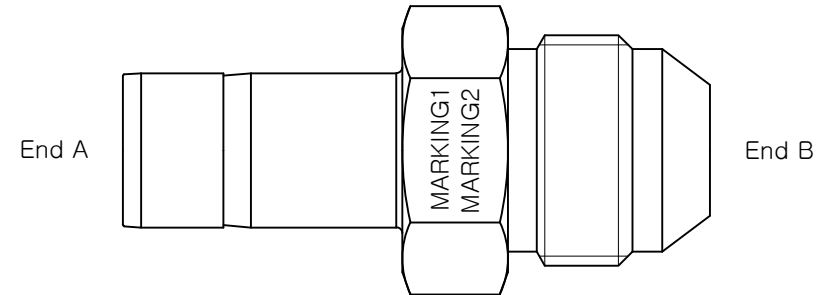
- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
MARKING2 : DK-Lok [MAT'L] [HCN]
MARKING3 : DK-Lok MAT'L SIZE S.KOREA HCN
- MARKING METHOD
MARKING1, 2 : LASER MARKING
MARKING3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|--------------------|---|
| APPROVED | <i>[Signature]</i> | TITLE DUBA / DK-LOK TUBE FITTING AN BULKHEAD UNION |
| REVIEWED | | |
| DESIGNED | <i>X.H Lee</i> | |
| SCALE | N/S | |
| DATE | 2022.04.15 |  <i>Fittings & Valves</i> |
| DWG. NO. | DUBA | |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|-------------|--------------------|------|
| DMAAXX-XX-S | 1 | BODY | ASTM A 276 TYPE316 | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size AN Tube Flare Size B |
|-----------|---------------------------|-------------------------------------|
| DMAA4-4 | 1/4" | 1/4" |
| DMAA6-6 | 3/8" | 3/8" |
| DMAA8-6 | 1/2" | 3/8" |
| DMAA8-8 | 1/2" | 1/2" |
| DMAA8-10 | 1/2" | 5/8" |
| DMAA10-10 | 5/8" | 5/8" |
| DMAA12-12 | 3/4" | 3/4" |
| DMAA16-16 | 1" | 1" |



* SPECIFICATION

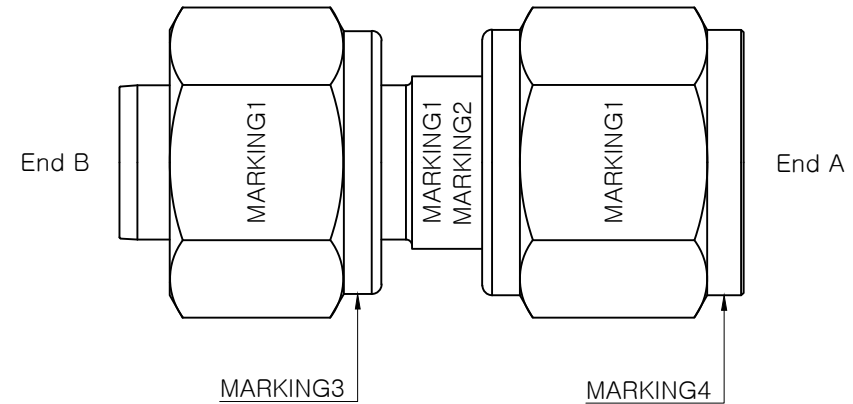
- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
MARKING2 : DK-Lok [MAT'L] [HCN]
- MARKING METHOD
MARKING1, 2 : LASER MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|------------|--|
| APPROVED | | TITLE DTRA / DK-LOK TUBE FITTING MALE AN ADAPTER |
| REVIEWED | | |
| DESIGNED | | |
| SCALE | N/S | |
| DATE | 2022.04.15 | Fittings & Valves |
| DWG. NO. | DMAA | |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|----------------|--------------------|------|
| DAAXX-XX-SA | 1 | BODY | ASTM A 276 TYPE316 | 1 |
| | 2 | FRONT FERRULE | ASTM A 479 TYPE316 | 1 |
| | 3 | BACK FERRULE | ASTM A 479 TYPE316 | 1 |
| | 4 | NUT | ASTM A 276 TYPE316 | 1 |
| | 5 | AN ADAPTER NUT | ASTM A 276 TYPE316 | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size Tube O.D B |
|----------|------------------------|------------------------|
| DAA2-2 | 1/16" | 1/16" |
| DAA2-4 | 1/8" | 1/4" |
| DAA4-4 | 1/4" | 1/4" |
| DAA6-6 | 3/8" | 3/8" |
| DAA8-8 | 1/2" | 1/2" |



* SPECIFICATION

1. MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]

MARKING2 : DK-Lok [MAT'L] [HCN]

MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]

MARKING4 : DK-Lok [MAT'L] [HCN]

2. MARKING METHOD

MARKING1 : LASER MARKING

MARKING2, 3, 4 : ROLL MARKING

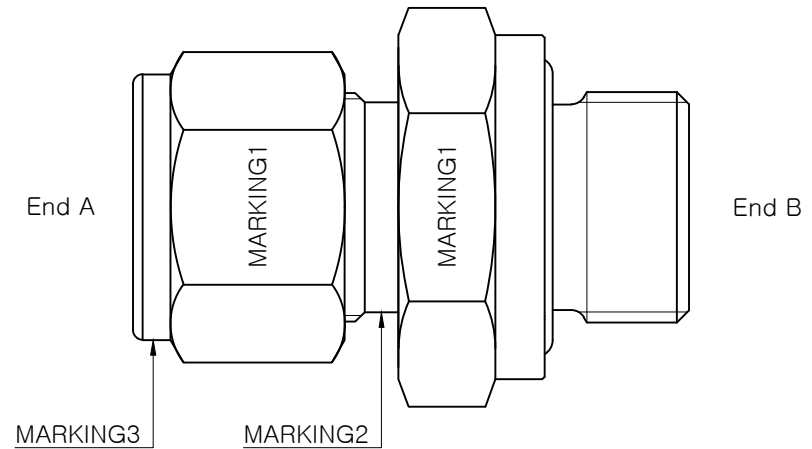
3. SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|------------|---|
| APPROVED | | TITLE DAA/ DK-LOK TUBE FITTING AN ADAPTER |
| REVIEWED | | |
| DESIGNED | X.H. Lee | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DAA | IDK-LOK Fittings & Valves |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|---------------|--------------------|------|
| DMCXX-XXUO-SA | 1 | BODY | ASTM A 276 TYPE316 | 1 |
| | 2 | FRONT FERRULE | ASTM A 479 TYPE316 | 1 |
| | 3 | BACK FERRULE | ASTM A 479 TYPE316 | 1 |
| | 4 | NUT | ASTM A 276 TYPE316 | 1 |
| | 5 | O-RING | NBR | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size Male Unified B |
|------------|------------------------|----------------------------|
| DMC2-2UO | 1/8" | 5/16-24UN |
| DMC3-3UO | 3/8" | 3/8-24UNF |
| DMC4-4UO | 1/4" | 7/16-20UNF |
| DMC5-5UO | 5/16" | 1/2-20UNF |
| DMC6-6UO | 3/8" | 9/16-18UNF |
| DMC8-8UO | 1/2" | 3/4-16UNF |
| DMC12-12UO | 3/4" | 1-1/16-12UN |
| DMC16-16UO | 1" | 1-5/16-12UN |



* SPECIFICATION

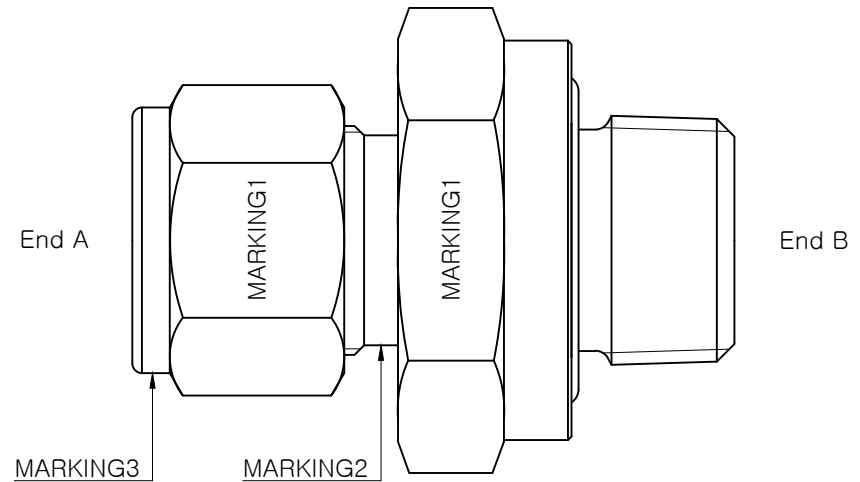
- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : DK-Lok [MAT'L] U [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2, 3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|----------------|--|
| APPROVED | | TITLE DMC-UO / DK-LOK TUBE FITTING O-SEAL STRAIGHT THREAD CONNECTOR |
| REVIEWED | | |
| DESIGNED | X.H.Lee | |
| SCALE | N/S | |
| DATE | 2022.04.15 | Fittings & Valves |
| DWG. NO. | DMC-UO | |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|---------------|--------------------|------|
| DMCXX-XXNO-SA | 1 | BODY | ASTM A 276 TYPE316 | 1 |
| | 2 | FRONT FERRULE | ASTM A 479 TYPE316 | 1 |
| | 3 | BACK FERRULE | ASTM A 479 TYPE316 | 1 |
| | 4 | NUT | ASTM A 276 TYPE316 | 1 |
| | 5 | O-RING | NBR | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size MALE NPT Thread B |
|----------|------------------------|-------------------------------|
| DMC2-2NO | 1/8" | 1/8" |
| DMC4-2NO | 1/4" | 1/8" |
| DMC4-4NO | 1/4" | 1/4" |
| DMC6-4NO | 3/8" | 1/4" |
| DMC6-6NO | 3/8" | 3/8" |
| DMC6-8NO | 3/8" | 1/2" |
| DMC8-8NO | 1/2" | 1/2" |



* SPECIFICATION

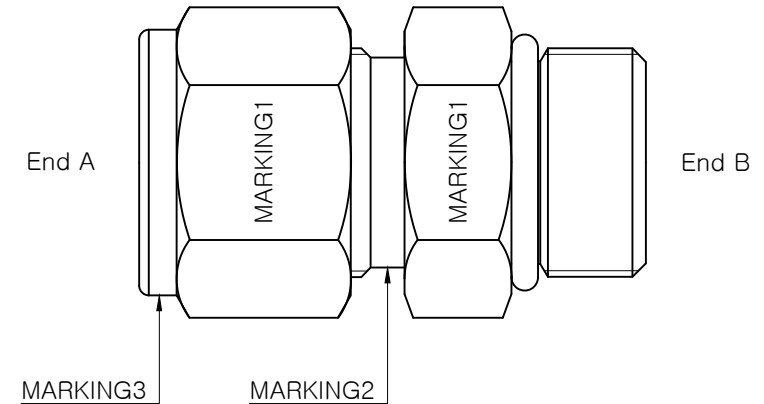
- MARKING1 : ANSI NGV3.1:20 / HGVS.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : DK-Lok [MAT'L] [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2, 3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|------------|--|
| APPROVED | | TITLE DMC-NO / DK-LOK TUBE FITTING O-SEAL PIPE THREAD CONNECTOR |
| REVIEWED | | |
| DESIGNED | | |
| SCALE | N/S | |
| DATE | 2022.04.15 | Fittings & Valves |
| DWG. NO. | DMC-NO | |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY | REV. NO. | REVISION NOTES | DATE |
|----------------|-----|---------------|--------------------|------|----------|---------------------|------------|
| DMCSXX-XXU-SA | 1 | BODY | ASTM A 276 TYPE316 | 1 | 0 | ISSUED FOR APPROVAL | 2022.04.15 |
| | 2 | FRONT FERRULE | ASTM A 479 TYPE316 | 1 | | | |
| | 3 | BACK FERRULE | ASTM A 479 TYPE316 | 1 | | | |
| | 4 | NUT | ASTM A 276 TYPE316 | 1 | | | |
| | 5 | O-RING | NBR | 1 | | | |

| Part No. | End Size Tube O.D A | End Size Male Unified B |
|------------|---------------------------|-------------------------------|
| DMCS2-2U | 1/8" | 5/16-24UN |
| DMCS4-4U | 1/4" | 7/16-20UNF |
| DMCS4-6U | 1/4" | 9/16-18UNF |
| DMCS4-8U | 1/4" | 3/4-16UNF |
| DMCS4-10U | 1/4" | 7/8-14UNF |
| DMCS5-5U | 5/16" | 1/2-20UNF |
| DMCS6-4U | 3/8" | 7/16-20UNF |
| DMCS6-6U | 3/8" | 9/16-18UNF |
| DMCS6-8U | 3/8" | 3/4-16UNF |
| DMCS6-10U | 3/8" | 7/8-14UNF |
| DMCS8-6U | 1/2" | 9/16-18UNF |
| DMCS8-8U | 1/2" | 3/4-16UNF |
| DMCS8-10U | 1/2" | 7/8-14UNF |
| DMCS8-12U | 1/2" | 1-1/16-12UN |
| DMCS10-8U | 5/8" | 3/4-16UNF |
| DMCS10-10U | 5/8" | 7/8-14UNF |
| DMCS12-8U | 3/4" | 3/4-16UNF |
| DMCS12-12U | 3/4" | 1-1/16-12UN |
| DMCS14-14U | 7/8" | 1-3/16-12UN |
| DMCS16-12U | 1" | 1-1/16-12UN |
| DMCS16-16U | 1" | 1-5/16-12UN |

| Part No. | End Size Tube O.D A | End Size Male Unified B |
|------------|---------------------------|-------------------------------|
| DMCS6M-6U | 6mm | 9/16-18UNF |
| DMCS10M-6U | 10mm | 9/16-18UNF |
| DMCS10M-8U | 10mm | 3/4-16UNF |
| DMCS12M-4U | 12mm | 7/16-20UNF |
| DMCS12M-6U | 12mm | 9/16-18UNF |



* SPECIFICATION

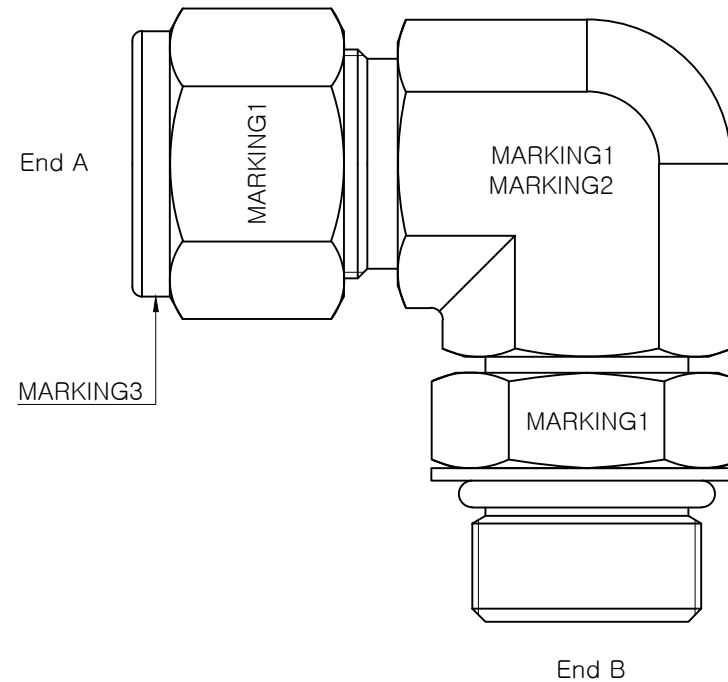
- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : DK-Lok [MAT'L] U [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2, 3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|--------------------|--|
| APPROVED | <i>[Signature]</i> | TITLE DMCS-U/ DK-LOK TUBE FITTING NON-POSITIONABLE SAE MALE CONNECTOR |
| REVIEWED | | |
| DESIGNED | <i>X.H Lee</i> | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DMCS-U | IDK-LOK Fittings & Valves |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|---------------|--------------------|------|
| DLSXX-XXUP-SA | 1 | BODY | ASTM A 182 F316 | 1 |
| | 2 | FRONT FERRULE | ASTM A 479 TYPE316 | 1 |
| | 3 | BACK FERRULE | ASTM A 479 TYPE316 | 1 |
| | 4 | NUT | ASTM A 276 TYPE316 | 1 |
| | 5 | LOCK NUT | ASTM A 276 TYPE316 | 1 |
| | 6 | WASHER | STAINLESS STEEL | 1 |
| | 7 | O-RING | NBR | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size Male Unified B |
|------------|------------------------|----------------------------|
| DLS4-4UP | 1/4" | 7/16-20UNF |
| DLS5-5UP | 5/16" | 1/2-20UNF |
| DLS6-6UP | 3/8" | 9/16-18UNF |
| DLS6-8UP | 3/8" | 3/4-16UNF |
| DLS8-8UP | 1/2" | 3/4-16UNF |
| DLS10-10UP | 5/8" | 7/8-14UNF |
| DLS12-12UP | 3/4" | 1-1/16-12UN |
| DLS14-14UP | 7/8" | 1-3/16-12UN |
| DLS16-16UP | 1" | 1-5/16-12UN |



* SPECIFICATION

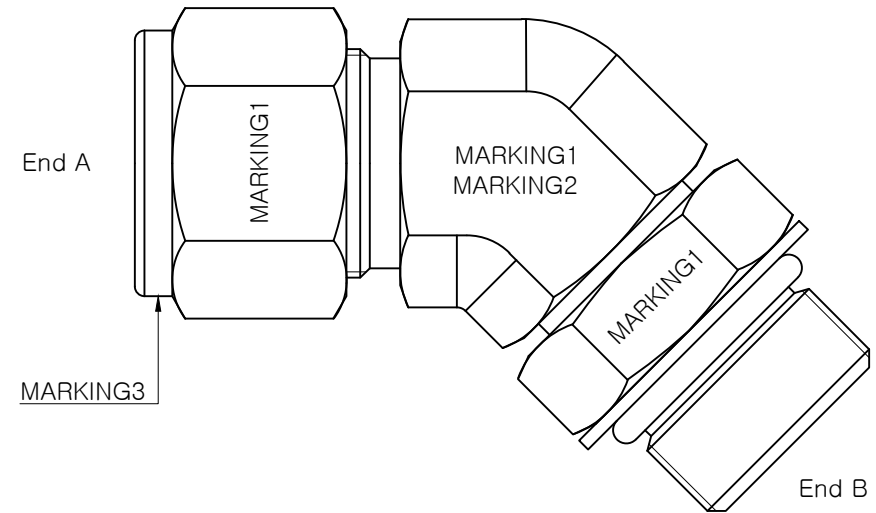
- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : [MAT'L] U [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2 : PRESS PARKING
 MARKING3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|--------------------|--|
| APPROVED | <i>[Signature]</i> | TITLE DLS-UP/ DK-LOK TUBE FITTING POSITIONABLE SAE MALE ELBOW |
| REVIEWED | | |
| DESIGNED | <i>X.H Lee</i> | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DLS-UP | IDK-LOK Fittings & Valves |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|---------------|--------------------|------|
| DLBSXX-XXUP-SA | 1 | BODY | ASTM A 182 F316 | 1 |
| | 2 | FRONT FERRULE | ASTM A 479 TYPE316 | 1 |
| | 3 | BACK FERRULE | ASTM A 479 TYPE316 | 1 |
| | 4 | NUT | ASTM A 276 TYPE316 | 1 |
| | 5 | LOCK NUT | ASTM A 276 TYPE316 | 1 |
| | 6 | WASHER | STAINLESS STEEL | 1 |
| | 7 | O-RING | NBR | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size Male Unified B |
|-------------|------------------------|----------------------------|
| DLBS4-4UP | 1/4" | 7/16-20UNF |
| DLBS6-6UP | 3/8" | 9/16-18UNF |
| DLBS8-8UP | 1/2" | 3/4-16UNF |
| DLBS12-12UP | 3/4" | 1-1/16-12UN |
| DLBS16-16UP | 1" | 1-5/16-12UN |



* SPECIFICATION

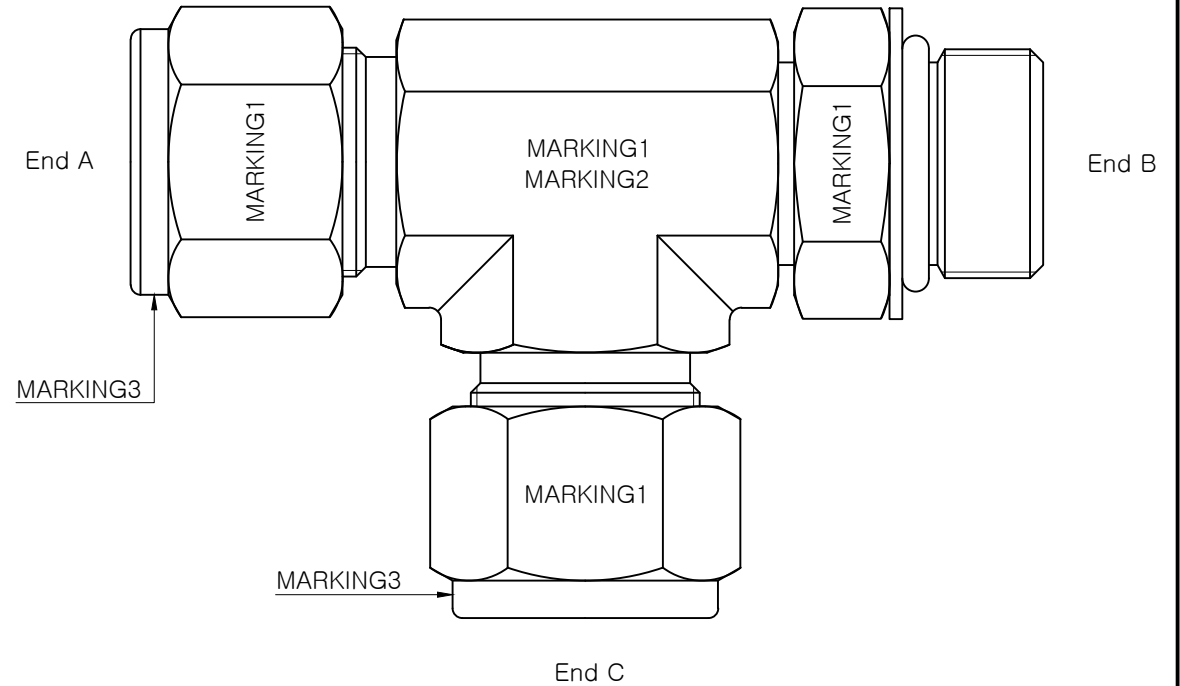
- MARKING1 : ANSI NGV3.1:20 / HGV3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : [MAT'L] U [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2 : PRESS PARKING
 MARKING3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|------------|---|
| APPROVED | | TITLE DLBS-UP/ DK-LOK TUBE FITTING POSITIONABLE 45° SAE MALE ELBOW |
| REVIEWED | | |
| DESIGNED | X.H. Lee | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DLBS-UP | DK-LOK Fittings & Valves |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|---------------|--------------------|------|
| DTRSXX-XXUP-SA | 1 | BODY | ASTM A 182 F316 | 1 |
| | 2 | FRONT FERRULE | ASTM A 479 TYPE316 | 2 |
| | 3 | BACK FERRULE | ASTM A 479 TYPE316 | 2 |
| | 4 | NUT | ASTM A 276 TYPE316 | 2 |
| | 5 | LOCK NUT | ASTM A 276 TYPE316 | 1 |
| | 6 | WASHER | STAINLESS STEEL | 1 |
| | 7 | O-RING | NBR | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size Male Unified B | End Size Tube O.D C |
|-------------|------------------------|-------------------------------|------------------------|
| DTRS4-4UP | 1/4" | 7/16-20UNF | 1/4" |
| DTRS6-6UP | 3/8" | 9/16-18UNF | 3/8" |
| DTRS8-8UP | 1/2" | 3/4-16UNF | 1/2" |
| DTRS12-12UP | 3/4" | 1-1/16-12UN | 3/4" |
| DTRS16-16UP | 1" | 1-5/16-12UN | 1" |



* SPECIFICATION

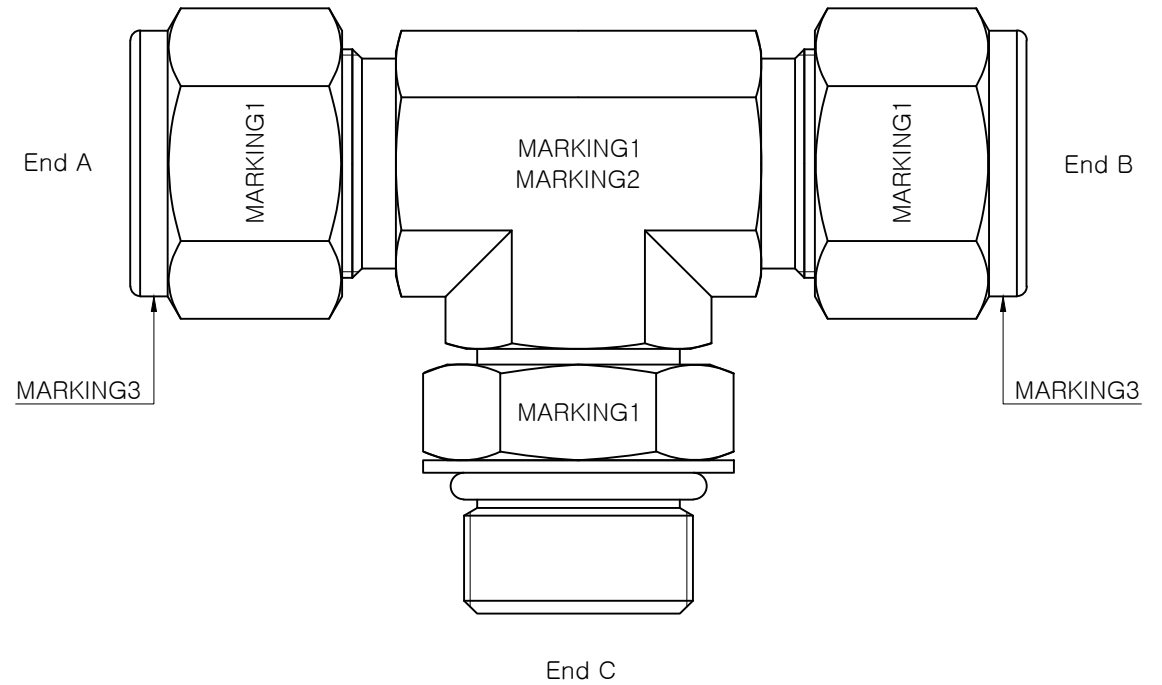
- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : [MAT'L] U [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2 : PRESS PARKING
 MARKING3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|------------|--|
| APPROVED | | TITLE |
| REVIEWED | | DTRS-UP/ DK-LOK TUBE FITTING POSITIONABLE SAE MALE RUN TEE |
| DESIGNED | X.H.Lee | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DTRS-UP | |
| | | IDK-LOK Fittings & Valves |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|---------------|--------------------|------|
| DTBSXX-XXUP-SA | 1 | BODY | ASTM A 182 F316 | 1 |
| | 2 | FRONT FERRULE | ASTM A 479 TYPE316 | 2 |
| | 3 | BACK FERRULE | ASTM A 479 TYPE316 | 2 |
| | 4 | NUT | ASTM A 276 TYPE316 | 2 |
| | 5 | LOCK NUT | ASTM A 276 TYPE316 | 1 |
| | 6 | WASHER | STAINLESS STEEL | 1 |
| | 7 | O-RING | NBR | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size Tube O.D B | End Size Male Unified C |
|-------------|------------------------|------------------------|-------------------------------|
| DTRS4-4UP | 1/4" | 1/4" | 7/16-20UNF |
| DTRS6-6UP | 3/8" | 3/8" | 9/16-18UNF |
| DTRS8-8UP | 1/2" | 1/2" | 3/4-16UNF |
| DTRS12-12UP | 3/4" | 3/4" | 1-1/16-12UN |
| DTRS16-16UP | 1" | 1" | 1-5/16-12UN |



* SPECIFICATION

- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : [MAT'L] U [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2 : PRESS PARKING
 MARKING3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

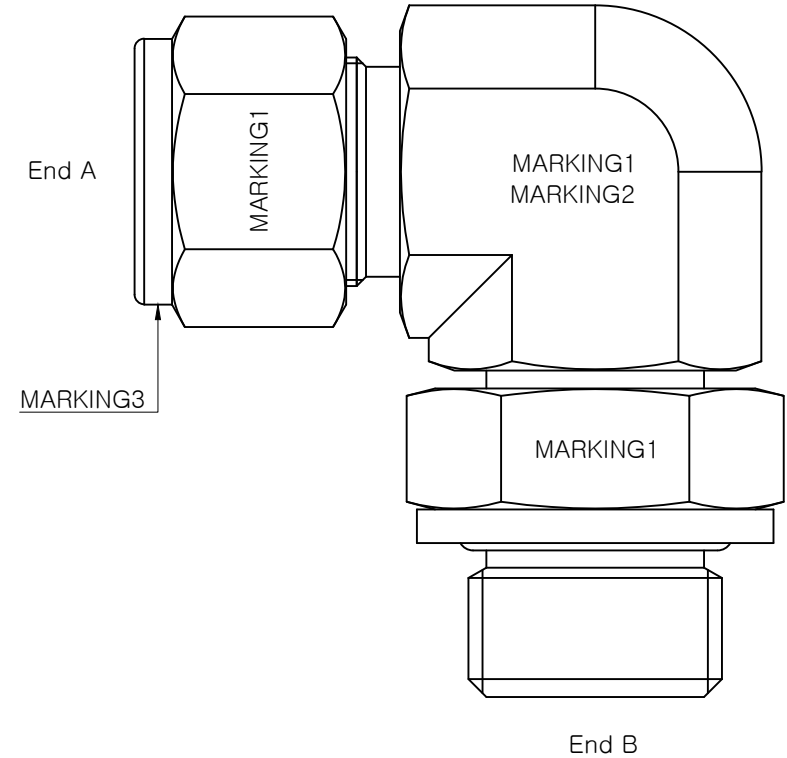
| | | |
|----------|------------|--|
| APPROVED | | TITLE DTBS-UP/ DK-LOK TUBE FITTING POSITIONABLE SAE MALE BRANCH TEE |
| REVIEWED | | |
| DESIGNED | X.H. Lee | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DTBS-UP | IDK-LOK Fittings & Valves |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|---------------|--------------------|------|
| DLMXX-XXGP-SA | 1 | BODY | ASTM A 182 F316 | 1 |
| | 2 | FRONT FERRULE | ASTM A 479 TYPE316 | 1 |
| | 3 | BACK FERRULE | ASTM A 479 TYPE316 | 1 |
| | 4 | NUT | ASTM A 276 TYPE316 | 1 |
| | 5 | PANEL NUT | ASTM A 276 TYPE316 | 1 |
| | 6 | WASHER | STAINLESS STEEL | 1 |
| | 7 | RETAINER | STAINLESS STEEL | 1 |
| | 8 | O-RING | NBR | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size Male PF B |
|------------|---------------------------|--------------------------|
| DLM4-2GP | 1/4" | 1/8" |
| DLM4-4GP | 1/4" | 1/4" |
| DLM6-4GP | 3/8" | 1/4" |
| DLM6-6GP | 3/8" | 3/8" |
| DLM8-4GP | 1/2" | 1/4" |
| DLM8-6GP | 1/2" | 3/8" |
| DLM8-8GP | 1/2" | 1/2" |
| DLM12-8GP | 3/4" | 1/2" |
| DLM12-12GP | 3/4" | 3/4" |
| DLM16-16GP | 1" | 1" |

| Part No. | End Size Tube O.D A | End Size Male PF B |
|------------|---------------------------|--------------------------|
| DLM6M-2GP | 6mm | 1/8" |
| DLM6M-4GP | 6mm | 1/4" |
| DLM6M-6GP | 6mm | 3/8" |
| DLM8M-2GP | 8mm | 1/8" |
| DLM8M-4GP | 8mm | 1/4" |
| DLM10M-4GP | 10mm | 1/4" |
| DLM10M-6GP | 10mm | 3/8" |
| DLM12M-4GP | 12mm | 1/4" |
| DLM12M-6GP | 12mm | 3/8" |
| DLM12M-8GP | 12mm | 1/2" |



* SPECIFICATION

- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : [MAT'L] G [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2 : PRESS PARKING
 MARKING3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

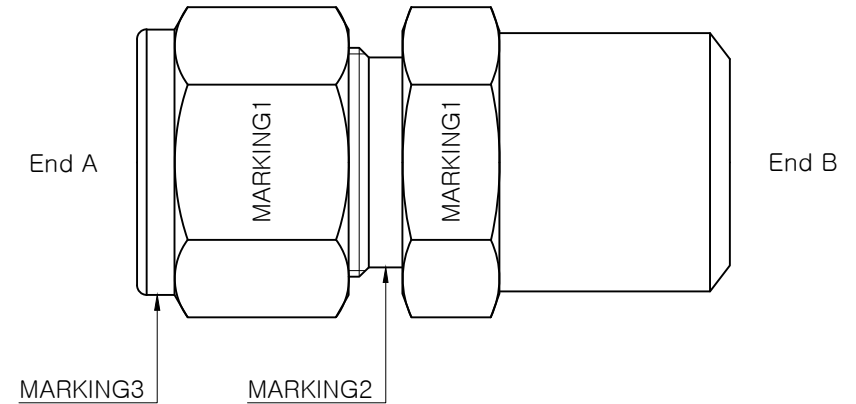
| | | |
|----------|--------------------|--|
| APPROVED | <i>[Signature]</i> | TITLE DLM-GP/ DK-LOK TUBE FITTING POSITIONABLE MALE ELBOW ISO PARALLEL THREAD |
| REVIEWED | | |
| DESIGNED | <i>X.H Lee</i> | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DLM-GP | IDK-LOK Fittings & Valves |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|---------------|--------------------|------|
| DCWXX-XXP-SA | 1 | BODY | ASTM A 276 TYPE316 | 1 |
| | 2 | FRONT FERRULE | ASTM A 479 TYPE316 | 1 |
| | 3 | BACK FERRULE | ASTM A 479 TYPE316 | 1 |
| | 4 | NUT | ASTM A 276 TYPE316 | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size Pipe O.D B |
|-----------|---------------------------|---------------------------|
| DCW2-2P | 1/8" | 1/8" |
| DCW3-2P | 3/16" | 1/8" |
| DCW4-2P | 1/4" | 1/8" |
| DCW4-4P | 1/4" | 1/4" |
| DCW5-2P | 5/16" | 1/8" |
| DCW5-4P | 5/16" | 1/4" |
| DCW6-4P | 3/8" | 1/4" |
| DCW6-6P | 3/8" | 3/8" |
| DCW6-8P | 3/8" | 1/2" |
| DCW8-6P | 1/2" | 3/8" |
| DCW8-8P | 1/2" | 1/2" |
| DCW8-12P | 1/2" | 3/4" |
| DCW10-8P | 5/8" | 1/2" |
| DCW12-12P | 3/4" | 3/4" |
| DCW16-16P | 1" | 1" |

| Part No. | End Size Tube O.D A | End Size Pipe O.D B |
|-----------|---------------------------|---------------------------|
| DCW3M-2P | 3mm | 1/8" |
| DCW4M-2P | 4mm | 1/8" |
| DCW6M-2P | 6mm | 1/8" |
| DCW6M-4P | 6mm | 1/4" |
| DCW8M-2P | 8mm | 1/8" |
| DCW8M-4P | 8mm | 1/4" |
| DCW8M-8P | 8mm | 1/2" |
| DCW10M-4P | 10mm | 1/4" |
| DCW10M-6P | 10mm | 3/8" |
| DCW10M-8P | 10mm | 1/2" |
| DCW12M-4P | 12mm | 1/4" |
| DCW12M-6P | 12mm | 3/8" |
| DCW12M-8P | 12mm | 1/2" |
| DCW14M-6P | 14mm | 3/8" |
| DCW15M-8P | 15mm | 1/2" |
| DCW16M-8P | 16mm | 1/2" |
| DCW18M-8P | 18mm | 1/2" |



* SPECIFICATION

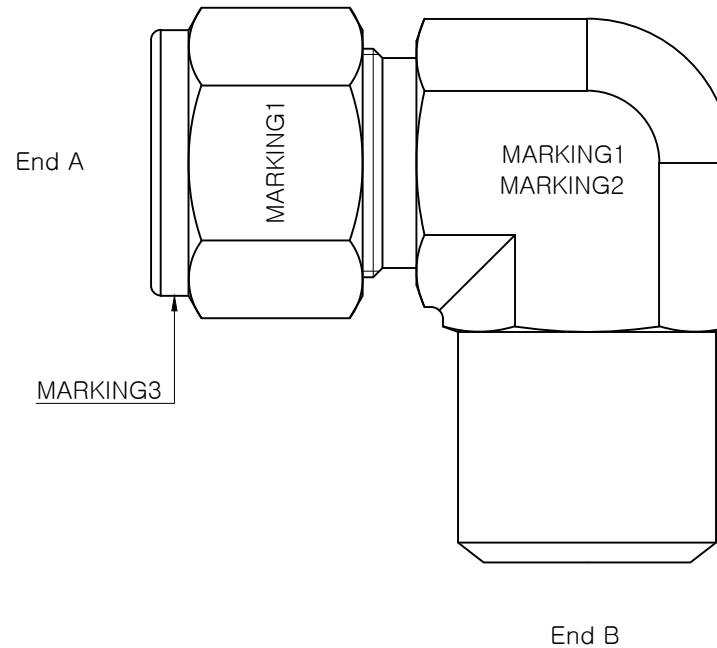
- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : DK-Lok [MAT'L] [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2, 3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|------------|--|
| APPROVED | | TITLE DCW / DK-LOK TUBE FITTING MALE PIPE WELD CONNECTOR |
| REVIEWED | | |
| DESIGNED | | |
| SCALE | N/S | |
| DATE | 2022.04.15 | Fittings & Valves |
| DWG. NO. | DCW | |

| ASS'Y Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------------|-----|---------------|--------------------|------|
| DLWXX-XXP-SA | 1 | BODY | ASTM A 182 F316 | 1 |
| | 2 | FRONT FERRULE | ASTM A 479 TYPE316 | 1 |
| | 3 | BACK FERRULE | ASTM A 479 TYPE316 | 1 |
| | 4 | NUT | ASTM A 276 TYPE316 | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size Pipe O.D B |
|-----------|------------------------|------------------------|
| DLW2-2P | 1/8" | 1/8" |
| DLW4-4P | 1/4" | 1/4" |
| DLW6-4P | 3/8" | 1/4" |
| DLW8-8P | 1/2" | 1/2" |
| DLW12-12P | 3/4" | 3/4" |



* SPECIFICATION

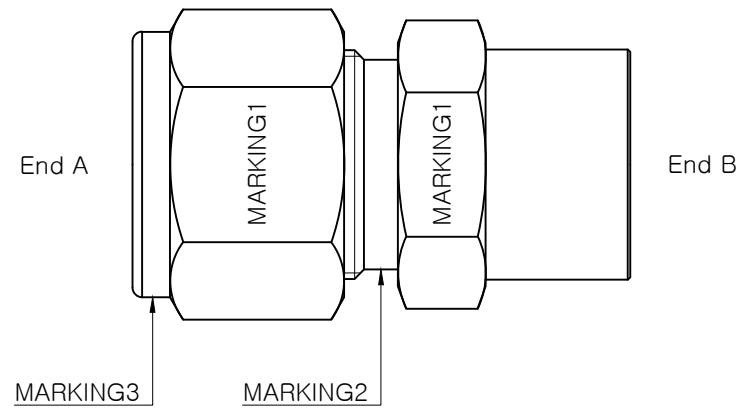
- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : [MAT'L] [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2 : PRESS PARKING
 MARKING3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|------------|--|
| APPROVED | | TITLE DLW / DK-LOK TUBE FITTING MALE PIPE WELD ELBOW |
| REVIEWED | | |
| DESIGNED | | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DLW | IDK-LOK Fittings & Valves |

| Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|--------------|-----|---------------|--------------------|------|
| DCSWXX-XX-SA | 1 | BODY | ASTM A 276 TYPE316 | 1 |
| | 2 | FRONT FERRULE | ASTM A 479 TYPE316 | 1 |
| | 3 | BACK FERRULE | ASTM A 479 TYPE316 | 1 |
| | 4 | NUT | ASTM A 276 TYPE316 | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size Tube O.D B |
|-----------|------------------------|------------------------|
| DCSW2-2 | 1/8" | 1/8" |
| DCSW4-4 | 1/4" | 1/4" |
| DCSW6-6 | 3/8" | 3/8" |
| DCSW8-8 | 1/2" | 1/2" |
| DCSW12-12 | 3/4" | 3/4" |
| DCSW16-16 | 1" | 1" |



* SPECIFICATION

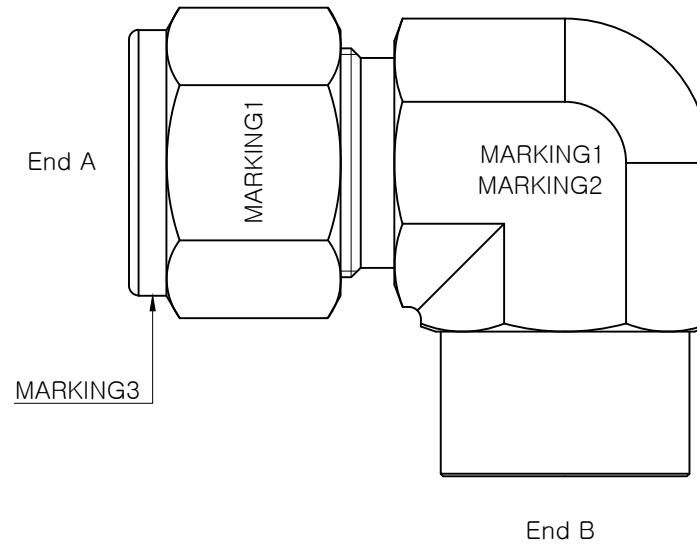
- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : DK-Lok [MAT'L] [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2, 3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|--------------------|--|
| APPROVED | <i>[Signature]</i> | TITLE DCSW / DK-LOK TUBE FITTING TUBE SOCKET WELD CONNECTOR |
| REVIEWED | | |
| DESIGNED | <i>X.H Lee</i> | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DCSW | IDK-LOK Fittings & Valves |

| Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|--------------|-----|---------------|--------------------|------|
| DLSWXX-XX-SA | 1 | BODY | ASTM A 182 F316 | 1 |
| | 2 | FRONT FERRULE | ASTM A 479 TYPE316 | 1 |
| | 3 | BACK FERRULE | ASTM A 479 TYPE316 | 1 |
| | 4 | NUT | ASTM A 276 TYPE316 | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A | End Size Tube O.D B |
|-----------|------------------------|------------------------|
| DLSW4-4 | 1/4" | 1/4" |
| DLSW6-6 | 3/8" | 3/8" |
| DLSW8-8 | 1/2" | 1/2" |
| DLSW12-12 | 3/4" | 3/4" |
| DLSW16-16 | 1" | 1" |



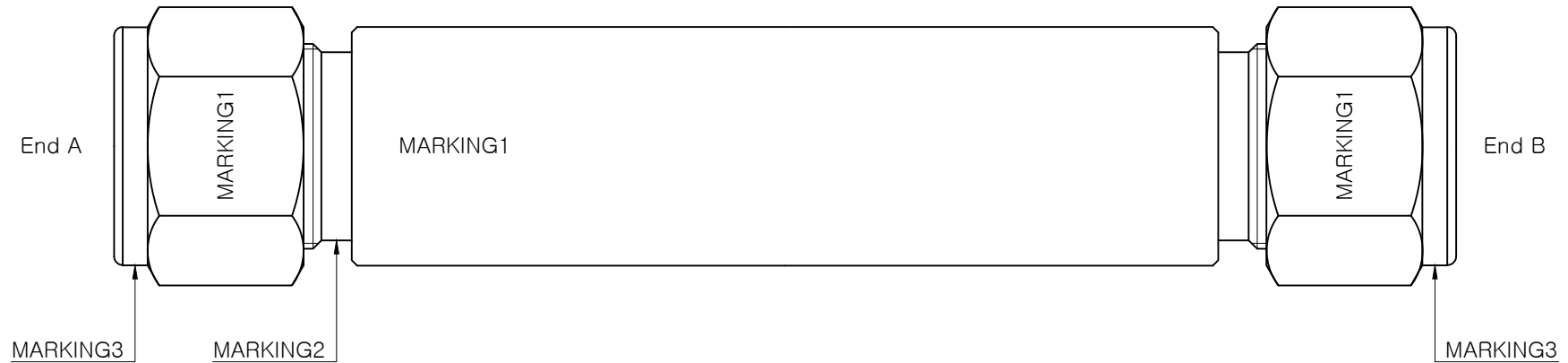
* SPECIFICATION

- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : [MAT'L] [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2 : PRESS PARKING
 MARKING3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|------------|---|
| APPROVED | | TITLE DLSW / DK-LOK TUBE FITTING TUBE SOCKET WELD ELBOW |
| REVIEWED | | |
| DESIGNED | | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DLSW | IDK-LOK Fittings & Valves |

| Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|------------|-----|---------------|--------------------|------|
| DBUW-XX-SA | 1 | BODY | ASTM A 276 TYPE316 | 1 |
| | 2 | FRONT FERRULE | ASTM A 479 TYPE316 | 2 |
| | 3 | BACK FERRULE | ASTM A 479 TYPE316 | 2 |
| | 4 | NUT | ASTM A 276 TYPE316 | 2 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |



| Part No. | End Size Tube O.D A | End Size Tube O.D B |
|----------|------------------------|------------------------|
| DBUW-4 | 1/4" | 1/4" |
| DBUW-6 | 3/8" | 3/8" |
| DBUW-8 | 1/2" | 1/2" |

* SPECIFICATION

1. MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]

MARKING2 : DK-Lok [MAT'L] [HCN]

MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]

2. MARKING METHOD

MARKING1 : LASER MARKING

MARKING2, 3 : ROLL MARKING

3. SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

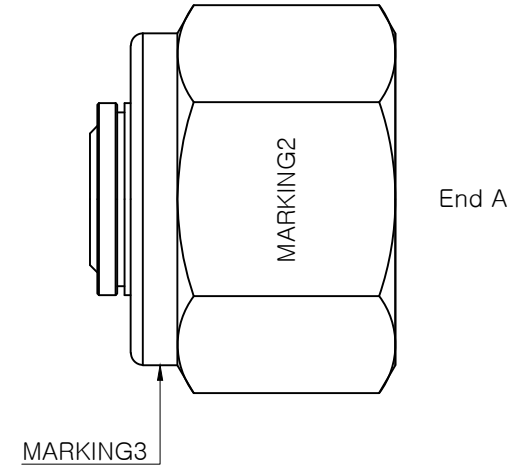
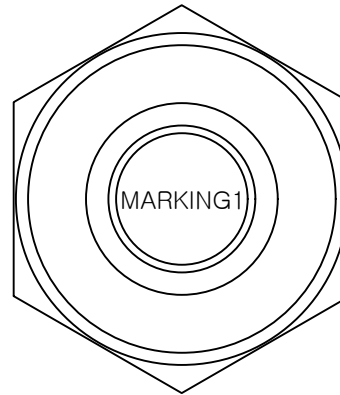
| | | |
|----------|------------|--|
| APPROVED | | TITLE |
| REVIEWED | | |
| DESIGNED | | DBUW / DK-LOK TUBE FITTING WELDING BULKHEAD UNION |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DBUW | Fittings & Valves |
| | | |

| Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------|-----|-------------|--------------------|------|
| DP-XX-SA | 1 | PLUG | ASTM A 276 TYPE316 | 1 |
| | 2 | NUT | ASTM A 276 TYPE316 | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A |
|----------|---------------------------|
| DP-1 | 1/16" |
| DP-2 | 1/8" |
| DP-3 | 3/16" |
| DP-4 | 1/4" |
| DP-5 | 5/16" |
| DP-6 | 3/8" |
| DP-8 | 1/2" |
| DP-10 | 5/8" |
| DP-12 | 3/4" |
| DP-14 | 7/8" |
| DP-16 | 1" |

| Part No. | End Size Tube O.D A |
|----------|---------------------------|
| DP-2M | 1/16" |
| DP-3M | 1/8" |
| DP-4M | 3/16" |
| DP-6M | 1/4" |
| DP-8M | 5/16" |
| DP-10M | 3/8" |
| DP-12M | 1/2" |
| DP-15M | 5/8" |



* SPECIFICATION

1. MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]

DK-Lok [MAT'L] [HCN]

MARKING2 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]

MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]

2. MARKING METHOD

MARKING1, 2 : LASER MARKING

MARKING3 : ROLL MARKING

3. SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

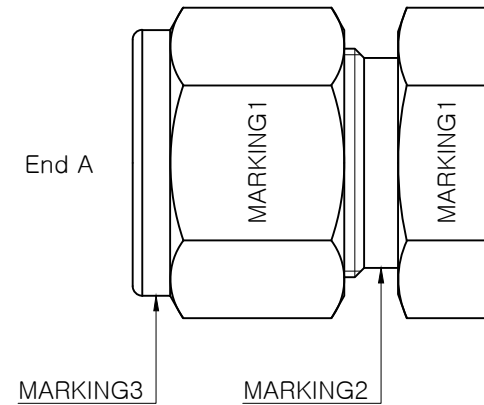
| | | |
|----------|------------|---|
| APPROVED | | TITLE DP / DK-LOK TUBE FITTING PLUG |
| REVIEWED | | |
| DESIGNED | | |
| SCALE | N/S | |
| DATE | 2022.04.15 | Fittings & Valves |
| DWG. NO. | DP | |

| Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------|-----|---------------|--------------------|------|
| DC-XX-SA | 1 | BODY | ASTM A 276 TYPE316 | 1 |
| | 2 | FRONT FERRULE | ASTM A 479 TYPE316 | 1 |
| | 3 | BACK FERRULE | ASTM A 479 TYPE316 | 1 |
| | 4 | NUT | ASTM A 276 TYPE316 | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A |
|----------|---------------------------|
| DC-1 | 1/16" |
| DC-2 | 1/8" |
| DC-3 | 3/16" |
| DC-4 | 1/4" |
| DC-5 | 5/16" |
| DC-6 | 3/8" |
| DC-8 | 1/2" |
| DC-10 | 5/8" |
| DC-12 | 3/4" |
| DC-14 | 7/8" |
| DC-16 | 1" |

| Part No. | End Size Tube O.D A |
|----------|---------------------------|
| DC-2M | 1/16" |
| DC-3M | 1/8" |
| DC-4M | 3/16" |
| DC-6M | 1/4" |
| DC-8M | 5/16" |
| DC-10M | 3/8" |
| DC-12M | 1/2" |
| DC-15M | 5/8" |
| DC-16M | 1/4" |
| DC-18M | 5/16" |
| DC-20M | 3/8" |
| DC-22M | 1/2" |
| DC-25M | 5/8" |



* SPECIFICATION

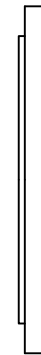
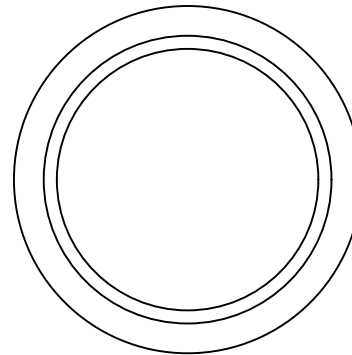
- MARKING1 : ANSI NGV3.1:20 / HGV3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
 MARKING2 : DK-Lok [MAT'L] [HCN]
 MARKING3 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
 MARKING1 : LASER MARKING
 MARKING2, 3 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

| | | |
|----------|------------|--|
| APPROVED | | TITLE DC / DK-LOK TUBE FITTING CAP |
| REVIEWED | | |
| DESIGNED | | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DC | IDK-LOK Fittings & Valves |

| Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------|-----|---------------|----------------------|------|
| DGV-X-S | 1 | BONDED GASKET | FKM + STINLESS STEEL | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | Size |
|----------|------|
| DGV-2 | 1/8" |
| DGV-4 | 1/4" |
| DGV-6 | 3/8" |
| DGV-8 | 1/2" |
| DGV-12 | 3/4" |
| DGV-16 | 1" |

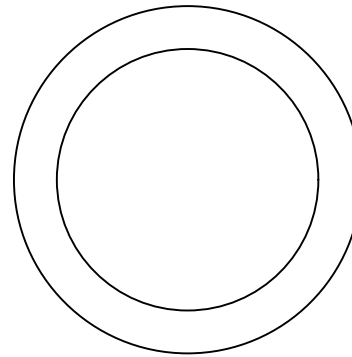



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|----------|--------------------|--|
| APPROVED | <i>[Signature]</i> | TITLE DGV / DK-LOK TUBE FITTING BONDED SEAL GASKET |
| REVIEWED | | |
| DESIGNED | X.H. Lee | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DGV | IDK-LOK Fittings & Valves |

| Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------|-----|---------------|----------|------|
| DGC-X-G | 1 | COPPER GASKET | COPPER | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | Size |
|----------|------|
| DGC-2 | 1/8" |
| DGC-4 | 1/4" |
| DGC-6 | 3/8" |
| DGC-8 | 1/2" |
| DGC-12 | 3/4" |
| DGC-16 | 1" |

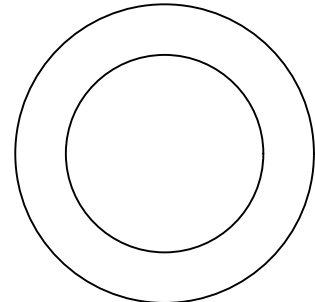


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|----------|--------------------|---|
| APPROVED | <i>[Signature]</i> | TITLE DGC / DK-LOK TUBE FITTING COPPER GASKET |
| REVIEWED | | |
| DESIGNED | X.H. Lee | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DGC |  <i>Fittings & Valves</i> |

| Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------|-----|-------------|----------|------|
| DGG-X-G | 1 | GASKET | COPPER | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | Size |
|----------|------|
| DGG-4 | 1/4" |
| DGG-6 | 3/8" |
| DGG-8 | 1/2" |



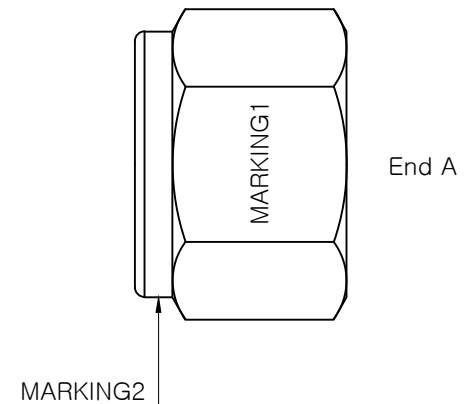
| | | |
|----------|--------------------|---|
| APPROVED | <i>[Signature]</i> | TITLE DGG / DK-LOK TUBE FITTING COPPER GASKET |
| REVIEWED | | |
| DESIGNED | <i>X.H Lee</i> | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DGG | IDK-LOK Fittings & Valves |

| Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------|-----|-------------|--------------------|------|
| DN-XX-S | 1 | NUT | ASTM A 276 TYPE316 | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |


| Part No. | End Size Tube O.D A |
|----------|------------------------|
| DN-1 | 1/16" |
| DN-2 | 1/8" |
| DN-3 | 3/16" |
| DN-4 | 1/4" |
| DN-5 | 5/16" |
| DN-6 | 3/8" |
| DN-8 | 1/2" |
| DN-10 | 5/8" |
| DN-12 | 3/4" |
| DN-14 | 7/8" |
| DN-16 | 1" |

| Part No. | End Size Tube O.D A |
|----------|------------------------|
| DN-2M | 2mm |
| DN-3M | 3mm |
| DN-4M | 4mm |
| DN-6M | 6mm |
| DN-8M | 8mm |
| DN-10M | 10mm |
| DN-12M | 12mm |
| DN-15M | 15mm |
| DN-16M | 16mm |
| DN-18M | 18mm |
| DN-20M | 20mm |
| DN-22M | 22mm |
| DN-25M | 25mm |



* SPECIFICATION

- MARKING1 : ANSI NGV3.1:20 / HG3.1-2015 TUV SUD [PART NO.] P36 / H35 [SERIAL NO.]
MARKING2 : DK-Lok [MAT'L] [SIZE] S.KOREA [HCN]
- MARKING METHOD
MARKING1 : LASER MARKING
MARKING2 : ROLL MARKING
- SP : 24.8 MPa / WP : 35 MPa / -40°C ~ 120°C

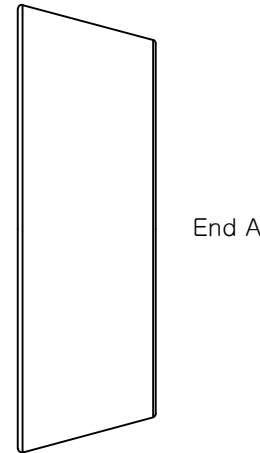
| | | |
|----------|--------------------|---|
| APPROVED | <i>[Signature]</i> | TITLE DN / DK-LOK TUBE FITTING NUT |
| REVIEWED | | |
| DESIGNED | <i>X.H Lee</i> | |
| SCALE | N/S | |
| DATE | 2022.04.15 |  <i>Fittings & Valves</i> |
| DWG. NO. | DN | |

| Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------|-----|---------------|--------------------|------|
| DFF-XX-S | 1 | FRONT FERRULE | ASTM A 479 TYPE316 | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A |
|----------|------------------------|
| DFF-1 | 1/16" |
| DFF-2 | 1/8" |
| DFF-3 | 3/16" |
| DFF-4 | 1/4" |
| DFF-5 | 5/16" |
| DFF-6 | 3/8" |
| DFF-8 | 1/2" |
| DFF-10 | 5/8" |
| DFF-12 | 3/4" |
| DFF-14 | 7/8" |
| DFF-16 | 1" |

| Part No. | End Size Tube O.D A |
|----------|------------------------|
| DFF-2M | 2mm |
| DFF-3M | 3mm |
| DFF-4M | 4mm |
| DFF-6M | 6mm |
| DFF-8M | 8mm |
| DFF-10M | 10mm |
| DFF-12M | 12mm |
| DFF-15M | 15mm |
| DFF-16M | 16mm |
| DFF-18M | 18mm |
| DFF-20M | 20mm |
| DFF-22M | 22mm |
| DFF-25M | 25mm |



| | | |
|----------|--------------------|---|
| APPROVED | <i>[Signature]</i> | TITLE DFF / DK-LOK TUBE FITTING FRONT FERRULE |
| REVIEWED | | |
| DESIGNED | X.H. Lee | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DFF | |

| Part No. | NO. | DESCRIPTION | MATERIAL | Q'TY |
|----------|-----|--------------|--------------------|------|
| DFB-XX-S | 1 | BACK FERRULE | ASTM A 479 TYPE316 | 1 |

| REV. NO. | REVISION NOTES | DATE |
|----------|---------------------|------------|
| 0 | ISSUED FOR APPROVAL | 2022.04.15 |

| Part No. | End Size Tube O.D A |
|----------|------------------------|
| DFB-1 | 1/16" |
| DFB-2 | 1/8" |
| DFB-3 | 3/16" |
| DFB-4 | 1/4" |
| DFB-5 | 5/16" |
| DFB-6 | 3/8" |
| DFB-8 | 1/2" |
| DFB-10 | 5/8" |
| DFB-12 | 3/4" |
| DFB-14 | 7/8" |
| DFB-16 | 1" |

| Part No. | End Size Tube O.D A |
|----------|------------------------|
| DFB-2M | 2mm |
| DFB-3M | 3mm |
| DFB-4M | 4mm |
| DFB-6M | 6mm |
| DFB-8M | 8mm |
| DFB-10M | 10mm |
| DFB-12M | 12mm |
| DFB-15M | 15mm |
| DFB-16M | 16mm |
| DFB-18M | 18mm |
| DFB-20M | 20mm |
| DFB-22M | 22mm |
| DFB-25M | 25mm |



End A

| | | |
|----------|--------------------|--|
| APPROVED | <i>[Signature]</i> | TITLE DFB / DK-LOK TUBE FITTING BACK FERRULE |
| REVIEWED | | |
| DESIGNED | X.H. Lee | |
| SCALE | N/S | |
| DATE | 2022.04.15 | |
| DWG. NO. | DFB | IDK-LOK Fittings & Valves |