

Shinilace Pipe Type Tube Fitting for JIS&KS



Catalog No. S-340TF Aug.2010



 **SHINI LACE**

Human & Technology



We, all staffs SHINILACE CO., LTD.

Deeply thank you for your continuous support and encouragement. As we have accomplished high growth for short time since the foundation in 1998, we have supplied our customers the best product at the most proper price with the best delivery and service under the motto, "Let's Do Our Best." On the basis of quality management system, we are making continuous efforts to make our customers satisfied, focusing on their need, with staffs' ideas and guarantee on the products by increasing working efficiency of all staffs.

We, all staffs with one accord, will focus on the customers' satisfaction with continuous research and development, increase of quality and technological stability in order to occupy technologically higher position prior to others in the 21st market on the basis of continuous efforts and faithfulness. We expect your endless interest and encouragement to our SHINILACE CO., LTD.

All staffs of SHINILACE CO., LTD.



SHINILACE

Human & Technology

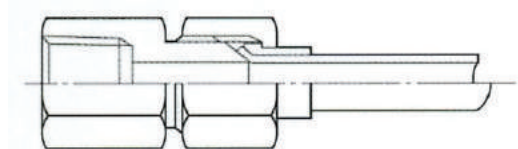


SHINILACE PRODUCT



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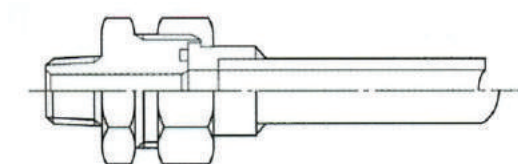
1. Flare Type Fittings



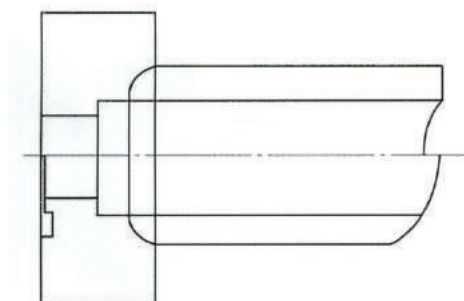
2. Silver Brazing Fittings



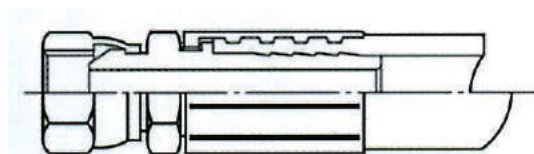
3. Socket Welding & Screwed Type Fittings



4. Square Flange & Socket Weld



5. Hose Fittings



1. Applicable Tube

- Stainless steel tube, size 6~28mm
- Copper & copper alloy tube, size 6~28mm

2. Nominal Pressure

- Safety ratio 4: 1
- Ambient temp.: -30°C ~40°C

Unit: kgf/cm²

TUBE O.D (mm)	NOMINAL WORKING PRESSURE			MAX.WORKING PRESSURE	
	TUBE THICK (mm)	COPPER	STAINLESS STEEL	COPPER	STAINLESS STEEL
6	1.0	200	300	450	600
8	1.2				
10	1.5				
12	1.5				
15	1.5	160	250	300	400
16	2.0				
18	2.0				
20	2.0				
22	2.5				
25	2.5				
28	3.0				

· Remark. See part A2. Nominal pressure under high temperature for over the above ambient Temperature.

3. Materials for fittings

- JIS G4303 SUS304, SU316
- JIS H3250 C3604, C3771

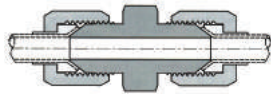
4. Threads

- Unified fine thread series, ANSI B 1.1, mark UNF
- Taper pipe thread, JIS B0203, mark PT According to order
- American standard taper pipe threads, ANSI B 2.1, mark NPT

5. Instruction

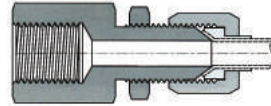
- ① Cut tube 90 degree and de-burr inside & outside of edge lightly.
- ② Slip the nut & sleeve over tube end.
- ③ Expand the end of the tube to 37 degree by using flaring tool.
- ④ Mark sure that the flared end was sloped up 37 and not excentered.
- ⑤ Tighten the nut by finger & spanner
 - Attention: If you want different flare angle with our standard 37 degree, then please note the flare angle clearly on purchase order.

SHINILACE FLARE TYPE

**FU**

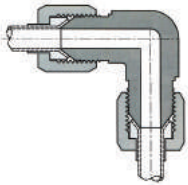
Union

..... 9

**FFBU**

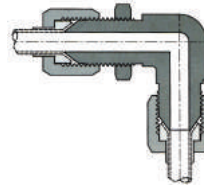
Female Bulkhead Union

..... 11

**FL**

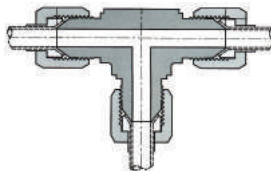
Union Lbow

..... 9

**FBUL**

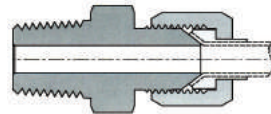
Bulkhead Union Lbow

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**FT**

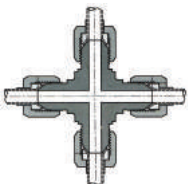
Union Tee

..... 9

**FMC**

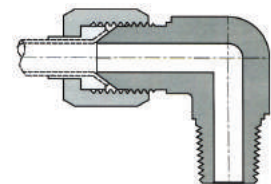
Male Connector

..... 11

**FX**

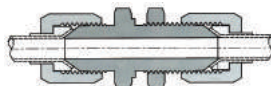
Union Cross

..... 10

**FML**

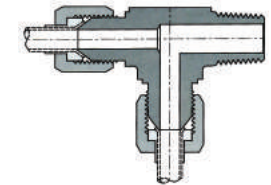
Male Llbrow

..... 12

**FBHU**

Bulkhead Union

..... 10

**FMRT**

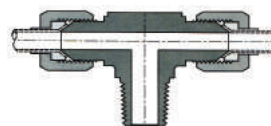
Male Run Tee

..... 12

**FBUW**

Weld Bulkhead Union

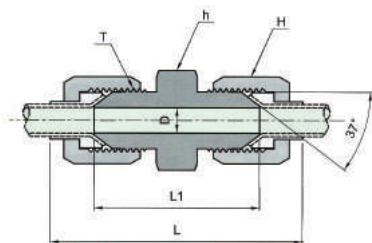
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**FMBT**

Male Branch Tee

..... 12

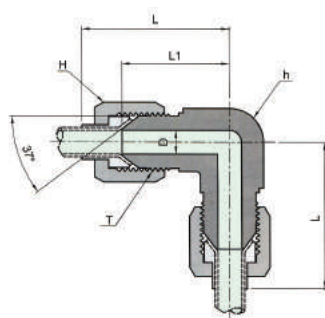
FU Union



Part Number	Tube O.D. Inch	Tube O.D. Metric	T (UNF/UN)	D	h (HEX)	H (HEX)	L	L ₁
FU-2T	1/8	3	5/16-24	1.6	11.1	9.5	45.3	29.7
FU-3T	3/16	4	3/8-24	3.2	11.1	11.1	50.0	31.2
FU-4T	1/4	6	7/16-20	4.4	12.7	14.3	53.0	34.8
FU-5T	5/16	8	1/2-20	6.0	14.3	15.9	55.6	34.8
FU-6T	3/8	10	9/16-18	7.5	15.9	17.5	59.6	35.8
FU-8T	1/2	12	3/4-16	9.9	20.2	22.2	66.5	41.1
FU-10T	5/8	16	7/8-14	12.3	23.8	22.2	81.0	47.8
FU-12T	3/4	18	1 1/16-12	15.5	28.5	31.8	85.9	54.9
FU-14T	7/8	22	1 3/16-12	18.3	31.7	34.9	91.3	56.1
FU-16T	1	25	1 5/16-12	21.4	34.9	38.1	95.2	57.2
FU-20T	1 1/4	32	1 5/8-12	27.4	42.9	50.8	98.7	61.7
FU-24T	1 1/2	38	1 7/8-12	33.3	50.4	57.2	123.2	69.8
FU-32T	2	50	2 1/2-12	45.2	66.7	73.0	141.4	86.4

All dimensions are in millimeters. Dimensions are for reference only, subject to change.

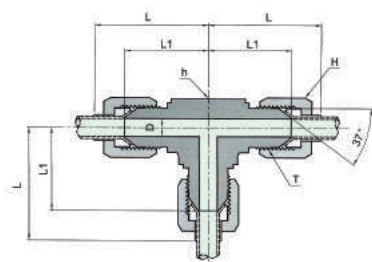
FL Union Lbow



Part Number	Tube O.D. Inch	Tube O.D. Metric	T (UNF/UN)	D	h (HEX)	H (HEX)	L	L ₁
FL-2T	1/8	3	5/16-24	1.6	11.1	9.5	27.4	19.6
FL-3T	3/16	4	3/8-24	3.2	11.1	11.1	30.5	21.1
FL-4T	1/4	6	7/16-20	4.4	11.1	14.3	31.7	22.6
FL-5T	5/16	8	1/2-20	6.0	14.3	15.9	34.5	24.1
FL-6T	3/8	10	9/16-18	7.5	14.3	17.5	38.8	26.9
FL-8T	1/2	12	3/4-16	9.9	19.0	22.2	44.5	31.8
FL-10T	5/8	16	7/8-14	12.3	22.2	22.2	53.4	36.8
FL-12T	3/4	18	1 1/16-12	15.5	27.0	31.8	57.7	42.2
FL-14T	7/8	22	1 3/16-12	18.3	33.3	34.9	63.3	45.7
FL-16T	1	25	1 5/16-12	21.4	33.3	38.1	65.0	46.0
FL-20T	1 1/4	32	1 5/8-12	27.4	41.3	50.8	70.8	52.3
FL-24T	1 1/2	38	1 7/8-12	33.3	47.6	57.2	85.9	59.2
FL-32T	2	50	2 1/2-12	45.2	63.5	73.0	105.2	77.7

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FT Union Tee



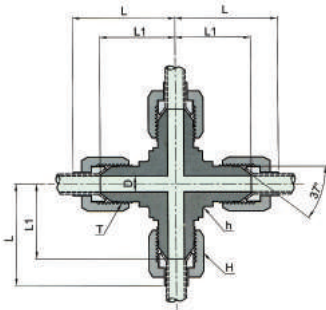
Part Number	Tube O.D. Inch	Tube O.D. Metric	T (UNF/UN)	D	h (HEX)	H (HEX)	L	L ₁
FT-2T	1/8	3	5/16-24	1.6	11.1	9.5	27.4	19.6
FT-3T	3/16	4	3/8-24	3.2	11.1	11.1	30.5	21.1
FT-4T	1/4	6	7/16-20	4.4	11.1	14.3	31.7	22.6
FT-5T	5/16	8	1/2-20	6.0	14.3	15.9	34.5	24.1
FT-6T	3/8	10	9/16-18	7.5	14.3	17.5	38.8	26.9
FT-8T	1/2	12	3/4-16	9.9	19.0	22.2	44.5	31.8
FT-10T	5/8	16	7/8-14	12.3	22.2	22.2	53.4	36.8
FT-12T	3/4	18	1 1/16-12	15.5	27.0	31.8	57.7	42.2
FT-14T	7/8	22	1 3/16-12	18.3	33.3	34.9	63.3	45.7
FT-16T	1	25	1 5/16-12	21.4	33.3	38.1	65.0	46.0
FT-20T	1 1/4	32	1 5/8-12	27.4	41.3	50.8	70.8	52.3
FT-24T	1 1/2	38	1 7/8-12	33.3	47.6	57.2	85.9	59.2
FT-32T	2	50	2 1/2-12	45.2	63.5	73.0	105.2	77.7

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SHINILACE FLARE TYPE

FX

Union Cross

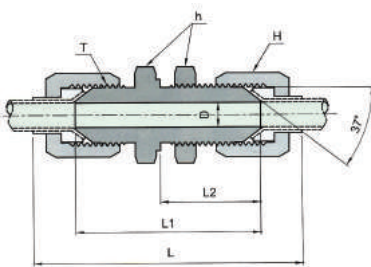


Part Number	Tube O.D. Inch	Metric	T (UNF/UN)	D	h (HEX)	H (HEX)	L	L ₁
FX-2T	1/8	3	5/16-24	1.6	11.1	9.5	27.4	19.6
FX-3T	3/16	4	3/8-24	3.2	11.1	11.1	30.5	21.1
FX-4T	1/4	6	7/16-20	4.4	11.1	14.3	31.7	22.6
FX-5T	5/16	8	1/2-20	6.0	14.3	15.9	34.5	24.1
FX-6T	3/8	10	9/16-18	7.5	14.3	17.5	38.8	26.9
FX-8T	1/2	12	3/4-16	9.9	19.0	22.2	44.5	31.8
FX-10T	5/8	16	7/8-14	12.3	22.2	22.2	53.4	36.8
FX-12T	3/4	18	1 1/16-12	15.5	27.0	31.8	57.7	42.2
FX-14T	7/8	22	1 3/16-12	18.3	33.3	34.9	63.3	45.7
FX-16T	1	25	1 5/16-12	21.4	33.3	38.1	65.0	46.0
FX-20T	1 1/4	32	1 5/8-12	27.4	41.3	50.8	70.8	52.3
FX-24T	1 1/2	38	1 7/8-12	33.3	47.6	57.2	85.9	59.2
FX-32T	2	50	2 1/2-12	45.2	63.5	73.0	105.2	77.7

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FBHU

Bulkhead Union

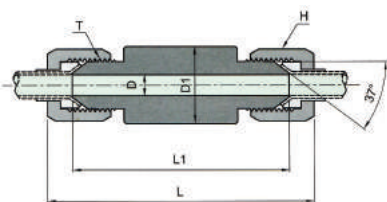


Part Number	Tube O.D. Inch	Metric	T (UNF/UN)	D	h (HEX)	H (HEX)	L	L ₁	L ₂
FBHU-2T	1/8	3	5/16-24	1.6	14.3	9.5	63.1	47.5	28.2
FBHU-3T	3/16	4	3/8-24	3.2	15.9	11.1	67.1	48.3	28.2
FBHU-4T	1/4	6	7/16-20	4.4	17.5	14.3	70.8	52.6	30.5
FBHU-5T	5/16	8	1/2-20	6.0	19.1	15.9	73.4	52.6	30.5
FBHU-6T	3/8	10	9/16-18	7.5	20.6	17.5	79.2	55.4	32.5
FBHU-8T	1/2	12	3/4-16	9.9	25.4	22.2	87.4	62.0	36.6
FBHU-10T	5/8	16	7/8-14	12.3	28.6	22.2	102.8	69.6	40.1
FBHU-12T	3/4	18	1 1/16-12	15.5	34.9	31.8	109.5	78.5	44.4
FBHU-14T	7/8	22	1 3/16-12	18.3	38.1	34.9	114.4	79.2	44.4
FBHU-16T	1	25	1 5/16-12	21.4	41.3	38.1	117.8	79.8	44.4
FBHU-20T	1 1/4	32	1 5/8-12	27.4	47.6	50.8	121.1	84.1	45.7
FBHU-24T	1 1/2	38	1 7/8-12	33.3	54.0	57.2	142.8	89.4	46.0
FBHU-32T	2	50	2 1/2-12	45.2	69.9	73.0	161.7	106.7	53.1

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FBUW

Weld Bulkhead Union

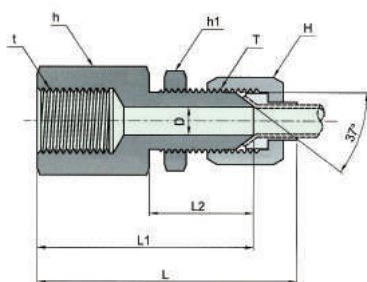


Part Number	Tube O.D. Inch	Metric	T (UNF/UN)	D	D ₁	H (HEX)	L	L ₁
FBUW-2T	1/8	3	5/16-24	1.6	11.0	9.5	85.6	70.0
FBUW-3T	3/16	4	3/8-24	3.2	11.0	11.1	88.8	70.0
FBUW-4T	1/4	6	7/16-20	4.4	14.0	14.3	98.2	80.0
FBUW-5T	5/16	8	1/2-20	6.0	16.0	15.9	120.8	100.0
FBUW-6T	3/8	10	9/16-18	7.5	17.0	17.5	123.8	100.0
FBUW-8T	1/2	12	3/4-16	9.9	22.0	22.2	125.4	100.0
FBUW-10T	5/8	16	7/8-14	12.3	25.0	22.2	143.2	110.0
FBUW-12T	3/4	18	1 1/16-12	15.5	30.0	31.8	151.0	120.0
FBUW-14T	7/8	22	1 3/16-12	18.3	32.0	34.9	165.0	130.0
FBUW-16T	1	25	1 5/16-12	21.4	40.0	38.1	168.0	130.0
FBUW-20T	1 1/4	32	1 5/8-12	27.4	46.0	50.8	177.0	140.0
FBUW-24T	1 1/2	38	1 7/8-12	33.3	50.0	57.2	193.4	140.0
FBUW-32T	2	50	2 1/2-12	45.2	70.0	73.0	205.0	150.0

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FFBU

Female Bulkhead Union

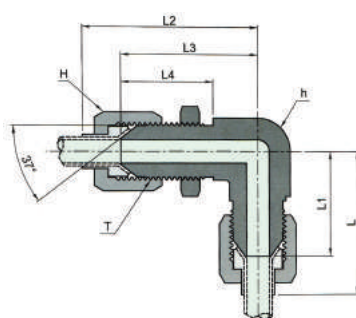


Part Number	Tube O.D. Inch Metric	T (UNF/UN)	t(NPT)	D	h (HEX)	h1 (HEX)	H (HEX)	L	L ₁	L ₂
FFBU2T-01N	1/8 3	5/16-24	1/8	1.6	14.3	14.3	9.5	49.0	41.2	28.2
FFBU3T-01N	3/16 4	3/8-24	1/8	3.2	14.3	15.9	11.1	50.6	41.2	28.2
FFBU4T-01N	1/4 6	7/16-20	1/8	4.4	14.3	17.5	14.3	52.6	43.5	30.5
FFBU5T-01N	5/16 8	1/2-20	1/8	6.0	14.3	19.1	15.9	53.9	43.5	30.5
FFBU6T-02N	3/8 10	9/16-18	1/4	7.5	19.1	20.6	17.5	62.5	50.5	32.5
FFBU8T-03N	1/2 12	3/4-16	3/8	9.9	22.2	25.4	22.2	69.3	56.6	36.6
FFBU10T-04N	5/8 16	7/8-14	1/2	12.3	28.6	28.6	22.2	82.7	66.1	40.1
FFBU12T-06N	3/4 18	1 1/16-12	3/4	15.5	34.9	34.9	31.8	86.0	71.4	44.4
FFBU14T-06N	7/8 22	1 3/16-12	3/4	18.3	34.9	38.1	34.9	89.0	71.4	44.4
FFBU16T-08N	1 25	1 5/16-12	1	21.4	41.3	41.3	38.1	94.4	75.4	44.4
FFBU20T-10N	1 1/4 32	1 5/8-12	1 1/4	27.4	50.8	47.6	50.8	99.2	80.7	45.7
FFBU24T-12N	1 1/2 38	1 7/8-12	1 1/2	33.3	60.3	54.0	57.2	107.7	81.0	46.0
FFBU32T-16N	2 50	2 1/2-12	2	45.2	73.0	69.9	73.0	120.6	93.1	53.1

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FBUL

Bulkhead Union Elbow

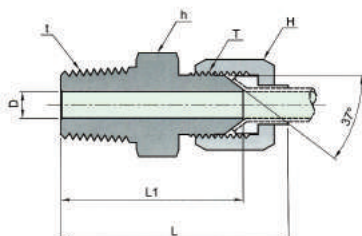


Part Number	Tube O.D. Inch Metric	T (UNF/UN)	h (HEX)	H (HEX)	L	L ₁	L ₂	L ₃	L ₄
FBUL-2T	1/8 3	5/16-24	11.1	9.5	30.2	22.4	45.9	38.1	23.4
FBUL-3T	3/16 4	3/8-24	11.1	11.1	33.3	23.9	47.5	38.1	23.4
FBUL-4T	1/4 6	7/16-20	11.1	14.3	33.7	24.6	49.5	40.4	25.9
FBUL-5T	5/16 8	1/2-20	14.3	15.9	37.3	26.9	54.1	43.7	25.9
FBUL-6T	3/8 10	9/16-18	14.3	17.5	39.6	27.7	57.9	46.0	27.7
FBUL-8T	1/2 12	3/4-16	19.0	22.2	47.2	34.5	66.3	53.6	31.8
FBUL-10T	5/8 16	7/8-14	22.2	22.2	56.2	39.6	77.3	60.7	35.8
FBUL-12T	3/4 18	1 1/16-12	27.0	31.8	60.7	45.2	83.1	67.6	39.6
FBUL-14T	7/8 22	1 3/16-12	33.3	34.9	66.4	48.8	88.7	71.1	39.6
FBUL-16T	1 25	1 5/16-12	33.3	38.1	68.3	49.3	90.1	71.1	39.6
FBUL-20T	1 1/4 32	1 5/8-12	41.3	50.8	73.6	55.1	97.7	79.2	40.9
FBUL-24T	1 1/2 38	1 7/8-12	47.6	57.2	86.1	59.4	113.6	86.9	41.1
FBUL-32T	2 50	2 1/2-12	63.5	73.0	100.9	73.4	131.9	104.4	48.5

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FMC

Male Connector



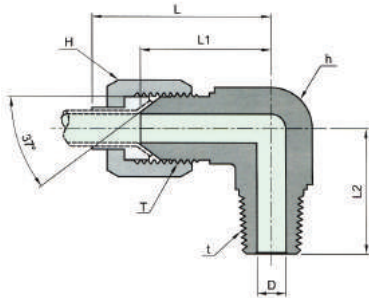
Part Number	Tube O.D. Inch Metric	T (UNF/UN)	t(NPT)	D	h (HEX)	H (HEX)	L	L ₁
FMC2T-01N	1/8 3	5/16-24	1/8	1.6	11.1	9.5	36.0	28.2
FMC3T-01N	3/16 4	3/8-24	1/8	3.2	11.1	11.1	38.4	29.0
FMC4T-01N	1/4 6	7/16-20	1/8	4.4	12.7	14.3	40.1	31.0
FMC5T-01N	5/16 8	1/2-20	1/8	6.0	14.3	15.9	41.4	31.0
FMC6T-02N	3/8 10	9/16-18	1/4	7.5	15.9	17.5	48.2	36.3
FMC8T-03N	1/2 12	3/4-16	3/8	9.9	20.6	22.2	51.6	38.9
FMC0T-04N	5/8 16	7/8-14	1/2	12.3	23.8	22.2	64.6	48.0
FMC12T-06N	3/4 18	1 1/16-12	3/4	15.5	28.6	31.8	67.8	52.3
FMC14T-06N	7/8 22	1 3/16-12	3/4	18.3	31.8	34.9	70.7	53.1
FMC16T-08N	1 25	1 5/16-12	1	21.4	34.9	38.1	77.4	58.4
FMC20T-10N	1 1/4 32	1 5/8-12	1 1/4	27.4	42.9	50.8	80.7	62.2
FMC24T-12N	1 1/2 38	1 7/8-12	1 1/2	33.3	50.8	57.2	94.8	68.1
FMC32T-16N	2 50	2 1/2-12	2	45.2	66.7	73.0	106.5	79.0

All dimensions are in millimeters. Dimensions are for reference only, subject to change.

SHINILACE FLARE TYPE

FML

Male Elbow

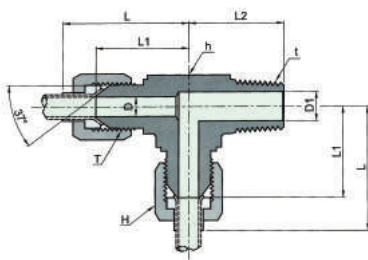


Part Number	Tube O.D. Inch	Tube O.D. Metric	T (UNF/UN)	t(NPT)	D	h (HEX)	H (HEX)	L	L ₁	L ₂
FML2T-01N	1/8	3	5/16-24	1/8	1.6	11.1	9.5	27.4	19.6	18.3
FML3T-01N	3/16	4	3/8-24	1/8	3.2	11.1	11.1	30.5	21.1	18.3
FML4T-01N	1/4	6	7/16-20	1/8	4.4	11.1	14.3	31.7	22.6	19.8
FML5T-01N	5/16	8	1/2-20	1/8	6.0	14.3	15.9	34.5	24.1	19.8
FML6T-02N	3/8	10	9/16-18	1/4	7.5	14.3	17.5	38.8	26.9	27.7
FML8T-03N	1/2	12	3/4-16	3/8	9.9	19.0	22.2	44.5	31.8	31.0
FML10T-04N	5/8	16	7/8-14	1/2	12.3	22.2	22.2	53.4	36.8	37.3
FML12T-06N	3/4	18	1 1/16-12	3/4	15.5	27.0	31.8	57.7	42.2	40.4
FML14T-06N	7/8	22	1 3/16-12	3/4	18.3	33.3	34.9	63.3	45.7	42.9
FML16T-08N	1	25	1 5/16-12	1	21.4	33.3	38.1	65.0	46.0	50.0
FML20T-10N	1 1/4	32	1 5/8-12	1 1/4	27.4	41.3	50.8	70.8	52.3	60.5
FML24T-12N	1 1/2	38	1 7/8-12	1 1/2	33.3	47.6	57.2	85.9	59.2	67.1
FML32T-16N	2	50	2 1/2-12	2	45.2	63.5	73.0	105.2	77.7	76.2

All dimensions are in millimeters. Dimensions are for reference only, subject to change.

FMRT

Male Run Tee

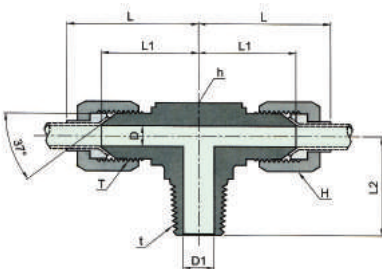


Part Number	Tube O.D. Inch	Tube O.D. Metric	T (UNF/UN)	t(NPT)	D	D ₁	h ₁ (HEX)	H (HEX)	L	L ₁	L ₂
FMRT2T-01N	1/8	3	5/16-24	1/8	1.6	4.8	11.1	9.5	27.4	19.6	18.3
FMRT3T-01N	3/16	4	3/8-24	1/8	3.2	4.8	11.1	11.1	30.5	21.1	18.3
FMRT4T-01N	1/4	6	7/16-20	1/8	4.4	4.8	11.1	14.3	31.7	22.6	19.8
FMRT5T-01N	5/16	8	1/2-20	1/8	6.0	4.8	14.3	15.9	34.5	24.1	19.8
FMRT6T-02N	3/8	10	9/16-18	1/4	7.5	7.0	14.3	17.5	38.8	26.9	27.7
FMRT8T-03N	1/2	12	3/4-16	3/8	9.9	10.3	19.0	22.2	44.5	31.8	31.0
FMRT10T-04N	5/8	16	7/8-14	1/2	12.3	13.5	22.0	22.2	53.4	36.8	37.3
FMRT12T-06N	3/4	18	1 1/16-12	3/4	15.5	18.3	27.0	31.8	57.7	42.2	40.4
FMRT14T-06N	7/8	22	1 3/16-12	3/4	18.3	18.3	33.3	34.9	63.3	45.7	42.9
FMRT16T-08N	1	25	1 5/16-12	1	21.4	23.8	33.3	38.1	65.0	46.0	50.0
FMRT20T-10N	1 1/4	32	1 5/8-12	1 1/4	27.4	31.7	41.3	50.8	70.8	52.3	60.5
FMRT24T-12N	1 1/2	38	1 7/8-12	1 1/2	33.3	38.0	47.6	57.2	85.9	59.2	67.1
FMRT32T-16N	2	50	2 1/2-12	2	45.2	49.0	49.0	73.0	105.2	77.7	76.2

All dimensions are in millimeters. Dimensions are for reference only, subject to change.

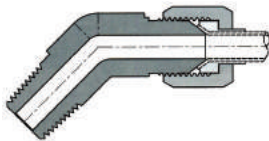
FMBT

Male Branch Tee



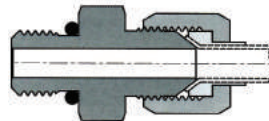
Part Number	Tube O.D. Inch	Tube O.D. Metric	T (UNF/UN)	t(NPT)	D	D ₁	h (HEX)	H (HEX)	L	L ₁	L ₁
FMBT2T-01N	1/8	3	5/16-24	1/8	1.6	4.8	11.1	9.5	27.4	19.6	18.3
FMBT3T-01N	3/16	4	3/8-24	1/8	3.2	4.8	11.1	11.1	30.5	21.1	18.3
FMBT4T-01N	1/4	6	7/16-20	1/8	4.4	4.8	11.1	14.3	31.7	22.6	19.8
FMBT5T-01N	5/16	8	1/2-20	1/8	6.0	4.8	14.3	15.9	34.5	24.1	19.8
FMBT6T-02N	3/8	10	9/16-18	1/4	7.5	7.0	14.3	17.5	38.8	26.9	27.7
FMBT8T-03N	1/2	12	3/4-16	3/8	9.9	10.3	19.0	22.2	44.5	31.8	31.0
FMBT10T-04N	5/8	16	7/8-14	1/2	12.3	13.5	22.2	22.2	53.4	36.8	37.3
FMBT12T-06N	3/4	18	1 1/16-12	3/4	15.5	18.3	27.0	31.8	57.7	42.2	40.4
FMBT14T-06N	7/8	22	1 3/16-12	3/4	18.3	18.3	33.3	34.9	63.3	45.7	42.9
FMBT16T-08N	1	25	1 5/16-12	1	21.4	23.8	33.3	38.1	65.0	46.0	50.0
FMBT20T-10N	1 1/4	32	1 5/8-12	1 1/4	27.4	31.7	41.3	50.8	70.8	52.3	60.5
FMBT24T-12N	1 1/2	38	1 7/8-12	1 1/2	33.3	38.0	47.6	57.2	85.9	59.2	67.1
FMBT32T-16N	2	50	2 1/2-12	2	45.2	49.0	63.5	73.0	105.2	77.7	76.2

All dimensions are in millimeters. Dimensions are for reference only, subject to change.



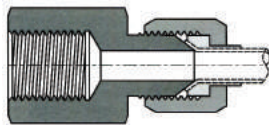
FHML
45° Male Elbow

..... 14



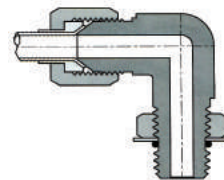
FOMC-U
O-Ring Seal Male Connector(UNF/UN)

..... 16



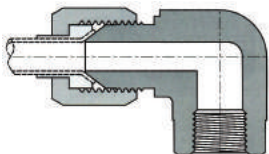
FFC
Female Connector

..... 14



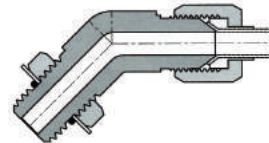
FOML
O-Ring Seal Male Elbow

..... 16



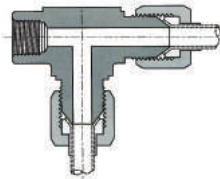
FFL
Female Elbow

..... 14



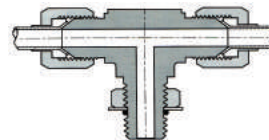
FOHML
O-Ring Seal 45° Male Elbow

..... 16



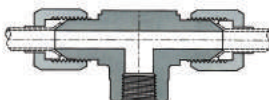
FFRT
Female Run Tee

..... 15



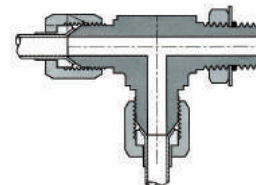
FOBT
O-Ring Seal Run Tee

..... 17



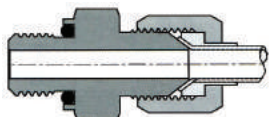
FFBT
Female Branch Tee

..... 15



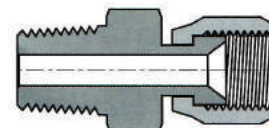
FORT
O-Ring Seal Run Tee

..... 17



FOMC-G
O-Ring Seal Male Connector(PF)

..... 15



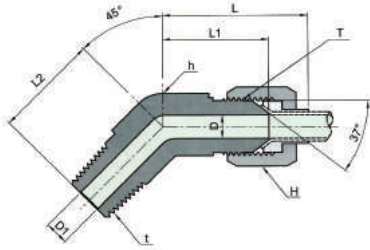
FMSC
Male Swivel Connector

..... 17

SHINILACE FLARE TYPE

FHML

45° Male Elbow

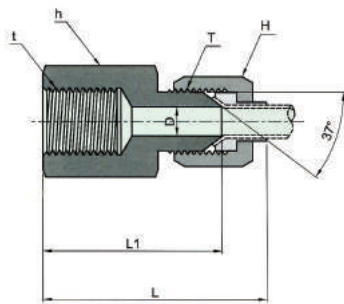


Part Number	Tube O.D. Inch	Metric	T (NPT)	D	D ₁	h (HEX)	H (HEX)	L	L ₁	L ₂
FHML2T-01N	1/8	3	1/8	1.6	4.8	11.1	9.5	25.3	17.5	13.2
FHML3T-01N	3/16	4	1/8	3.2	4.8	11.1	11.1	26.9	17.5	13.2
FHML4T-01N	1/4	6	1/8	4.4	4.8	11.1	14.3	27.4	18.3	16.3
FHML5T-01N	5/16	8	1/8	6.0	4.8	14.3	15.9	30.0	19.6	16.3
FHML6T-02N	3/8	10	1/4	7.5	7.0	14.3	17.5	33.0	21.1	21.8
FHML8T-03N	1/2	12	3/8	9.9	10.3	19.0	22.2	37.6	24.9	24.1
FHML10T-04N	5/8	16	1/2	12.3	13.5	22.2	22.2	44.8	28.2	29.7
FHML12T-06N	3/4	18	3/4	15.5	18.3	27.0	31.8	48.0	32.5	30.5
FHML14T-06N	7/8	22	3/4	18.3	18.3	33.3	34.9	54.4	36.8	33.0
FHML16T-08N	1	25	1	21.4	23.8	33.3	38.1	56.3	37.3	37.6
FHML20T-10N	1 1/4	32	1 1/4	27.4	31.7	41.3	50.8	58.9	40.4	42.4
FHML24T-12N	1 1/2	38	1 1/2	33.3	38.0	47.6	57.2	71.9	45.2	45.0
FHML32T-16N	2	50	2	45.2	49.0	63.5	73.0	83.9	56.4	53.6

All dimensions are in millimeters. Dimensions are for reference only, subject to change.

FFC

Female Connector

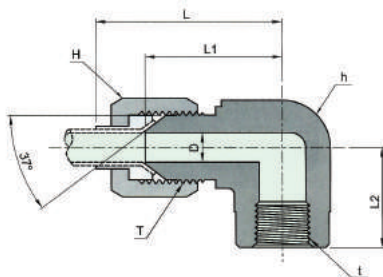


Part Number	Tube O.D. Inch	Metric	T (UNF/UN)	T (NPT)	D	h (HEX)	H (HEX)	L	L ₁
FFC2T-01N	1/8	3	5/16-24	1/8	1.6	14.3	9.5	36.2	28.4
FFC3T-01N	3/16	4	3/8-24	1/8	3.2	14.3	11.1	38.1	28.7
FFC4T-01N	1/4	6	7/16-20	1/8	4.4	14.3	14.3	39.3	30.2
FFC5T-01N	5/16	8	1/2-20	1/8	6.0	14.3	15.9	40.1	29.7
FFC6T-02N	3/8	10	9/16-18	1/4	7.5	19.1	17.5	47.5	35.6
FFC8T-03N	1/2	12	3/4-16	3/8	9.9	22.2	22.2	52.3	39.6
FFC10T-04N	5/8	16	7/8-14	1/2	12.3	28.6	22.2	64.6	48.0
FFC12T-06N	3/4	18	1 1/16-12	3/4	15.5	34.9	31.8	67.8	52.3
FFC14T-06N	7/8	22	1 3/16-12	3/4	18.3	34.9	34.9	69.9	52.3
FFC16T-08N	1	25	1 5/16-12	1	21.4	41.3	38.1	78.7	59.7
FFC20T-10N	1 1/4	32	1 5/8-12	1 1/4	27.4	50.8	50.8	81.7	63.2
FFC24T-12N	1 1/2	38	1 7/8-12	1 1/2	33.3	60.3	57.2	93.2	66.5
FFC32T-16N	2	50	2 1/2-12	2	45.2	73.0	73.0	102.9	75.4

All dimensions are in millimeters. Dimensions are for reference only, subject to change.

FFL

Female Elbow

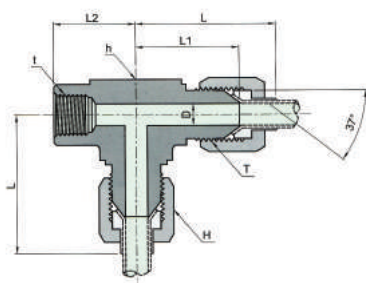


Part Number	Tube O.D. Inch	Metric	T (UNF/UN)	T (NPT)	D	H (HEX)	L	L ₁	L ₂
FFL2T-01N	1/8	3	5/16-24	1/8	1.6	9.5	33.2	25.4	16.8
FFL3T-01N	3/16	4	3/8-24	1/8	3.2	11.1	35.6	26.2	16.8
FFL4T-01N	1/4	6	7/16-20	1/8	4.4	14.3	36.5	27.4	16.8
FFL5T-01N	5/16	8	1/2-20	1/8	6.0	15.9	37.8	27.4	16.8
FFL6T-02N	3/8	10	9/16-18	1/4	7.5	17.5	43.1	31.2	22.4
FFL8T-03N	1/2	12	3/4-16	3/8	9.9	22.2	48.8	36.1	25.9
FFL10T-04N	5/8	16	7/8-14	1/2	12.3	22.2	58.3	41.7	31.2
FFL12T-06N	3/4	18	1 1/16-12	3/4	15.5	31.8	63.5	48.0	34.5
FFL14T-06N	7/8	22	1 3/16-12	3/4	18.3	34.9	64.8	47.2	36.1
FFL16T-08N	1	25	1 5/16-12	1	21.4	38.1	74.1	55.1	41.1
FFL20T-10N	1 1/4	32	1 5/8-12	1 1/4	27.4	50.8	77.7	59.2	43.2
FFL24T-12N	1 1/2	38	1 7/8-12	1 1/2	33.3	57.2	100.1	73.4	52.8
FFL32T-16N	2	50	2 1/2-12	2	45.2	73.0	111.3	83.8	60.7

All dimensions are in millimeters. Dimensions are for reference only, subject to change.

FFRT

Female Run Tee

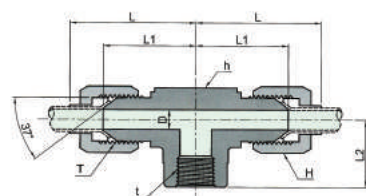


Part Number	Tube O.D.		T (UNF/UN)	t(NPT)	D	h (HEX)	H (HEX)	L	L ₁	L ₂
FFRT2T-01N	1/8	3	5/16-24	1/8	1.6	14.3	9.5	33.2	25.4	16.8
FFRT3T-01N	3/16	4	3/8-24	1/8	3.2	14.3	11.1	35.6	26.2	16.8
FFRT4T-01N	1/4	6	7/16-20	1/8	4.4	14.3	14.3	36.5	27.4	16.8
FFRT5T-01N	5/16	8	1/2-20	1/8	6.0	14.3	15.9	37.8	27.4	16.8
FFRT6T-02N	3/8	10	9/16-18	1/4	7.5	19.1	17.5	43.1	31.2	22.4
FFRT8T-03N	1/2	12	3/4-16	3/8	9.9	22.2	22.2	48.8	36.1	25.9
FFRT10T-04N	5/8	16	7/8-14	1/2	12.3	27.0	22.2	58.3	41.7	31.2
FFRT12T-06N	3/4	18	1 1/16-12	3/4	15.5	33.3	31.8	63.5	48.0	34.5
FFRT14T-06N	7/8	22	1 3/16-12	3/4	18.3	33.3	34.9	64.8	47.2	36.1
FFRT16T-08N	1	25	1 5/16-12	1	21.4	41.3	38.1	74.1	55.1	41.1
FFRT20T-10N	1 1/4	32	1 5/8-12	1 1/4	27.4	47.6	50.8	77.7	59.2	43.2
FFRT24T-12N	1 1/2	38	1 7/8-12	1 1/2	33.3	65.1	57.2	100.1	73.4	52.8
FFRT32T-16N	2	50	2 1/2-12	2	45.2	71.4	73.0	111.3	83.8	60.7

All dimensions are in millimeters. Dimensions are for reference only, subject to change.

FFBT

Female Branch Tee

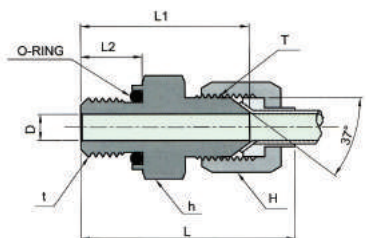


Part Number	Tube O.D.		T (UNF/UN)	t(NPT)	D	h (HEX)	H (HEX)	L	L ₁	L ₂
FFBT2T-01N	1/8	3	5/16-24	1/8	1.6	14.3	9.5	33.2	25.4	16.8
FFBT3T-01N	3/16	4	3/8-24	1/8	3.2	14.3	11.1	35.6	26.2	16.8
FFBT4T-01N	1/4	6	7/16-20	1/8	4.4	14.3	14.3	36.5	27.4	16.8
FFBT5T-01N	5/16	8	1/2-20	1/8	6.0	14.3	15.9	37.8	27.4	16.8
FFBT6T-02N	3/8	10	9/16-18	1/4	7.5	19.0	17.5	43.1	31.2	22.4
FFBT8T-03N	1/2	12	3/4-16	3/8	9.9	22.2	22.2	48.8	36.1	25.9
FFBT10T-04N	5/8	16	7/8-14	1/2	12.3	27.0	22.2	58.3	41.7	31.2
FFBT12T-06N	3/4	18	1 1/16-12	3/4	15.5	33.3	31.8	63.5	48.0	34.5
FFBT14T-06N	7/8	22	1 3/16-12	3/4	18.3	33.3	34.9	64.8	47.2	36.1
FFBT16T-08N	1	25	1 5/16-12	1	21.4	41.3	38.1	74.1	55.1	41.1
FFBT20T-10N	1 1/4	32	1 5/8-12	1 1/4	27.4	47.6	50.8	77.7	59.2	43.2
FFBT24T-12N	1 1/2	38	1 7/8-12	1 1/2	33.3	65.1	57.2	100.1	73.4	52.8
FFBT32T-16N	2	50	2 1/2-12	2	45.2	71.4	73.0	111.3	83.8	60.7

All dimensions are in millimeters. Dimensions are for reference only, subject to change.

FOMC-G

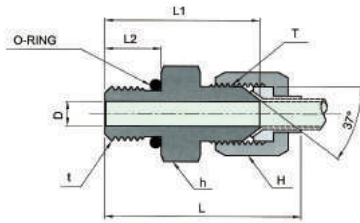
O-Ring Seal Male Connector (PF)



Part Number	Tube O.D.		T (UNF/UN)	t(NPT)	D	h (HEX)	H (HEX)	L	L ₁	L ₂
FOMC2T-01G	1/8	3	5/16-24	1/8	1.6	11.1	9.5	35.3	27.5	8.0
FOMC3T-01G	3/16	4	3/8-24	1/8	3.2	12.7	11.1	37.9	28.5	8.0
FOMC4T-01G	1/4	6	7/16-20	1/8	4.4	14.2	14.3	39.3	30.2	8.0
FOMC5T-01G	5/16	8	1/2-20	1/8	6.0	15.8	15.9	40.6	30.2	8.0
FOMC6T-02G	3/8	10	9/16-18	1/4	7.5	17.4	17.5	46.9	35.0	12.0
FOMC8T-03G	1/2	12	3/4-16	3/8	9.9	22.2	22.2	51.4	38.7	12.0
FOMC10T-04G	5/8	16	7/8-14	1/2	12.3	25.4	22.2	61.1	44.5	14.0
FOMC12T-06G	3/4	18	1 1/16-12	3/4	15.5	31.7	31.8	66.4	50.9	16.0
FOMC14T-06G	7/8	22	1 3/16-12	3/4	18.3	34.9	34.9	69.0	51.4	16.0
FOMC16T-08G	1	25	1 5/16-12	1	21.4	38.0	38.1	71.7	52.7	18.0
FOMC20T-10G	1 1/4	32	1 5/8-12	1 1/4	27.4	42.8	50.8	78.5	60.0	20.0
FOMC24T-12G	1 1/2	38	1 7/8-12	1 1/2	33.3	55.0	57.2	92.8	66.1	21.0
FOMC32T-16G	2	50	2 1/2-12	2	45.2	70.0	73.0	108.0	80.5	25.0

All dimensions are in millimeters. Dimensions are for reference only, subject to change.

SHINILACE FLARE TYPE

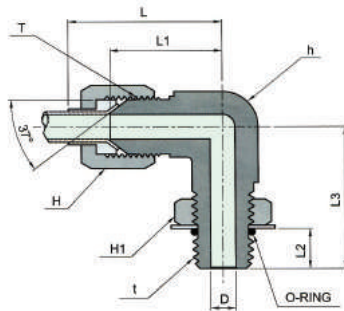
FOMC-UO-Ring Seal Male
Connector (UNF/UN)

Part Number	Tube O.D. Inch Metric	T (NPT)	T (UNF/UN)	D	h (HEX)	H (HEX)	L	L ₁	L ₂
FOMC2T-02U	1/8 3	1/8	5/16-24	1.6	11.1	9.5	34.7	26.9	7.5
FOMC3T-03U	3/16 4	1/8	3/8-24	3.2	12.7	11.1	37.3	27.9	7.5
FOMC4T-04U	1/4 6	1/8	7/16-20	4.4	14.2	14.3	40.3	31.2	9.1
FOMC5T-05U	5/16 8	1/8	1/2-20	6.0	15.8	15.9	41.6	31.2	9.1
FOMC6T-06U	3/8 10	1/4	9/16-18	7.5	17.4	17.5	44.9	33.0	9.9
FOMC8T-08U	1/2 12	3/8	3/4-16	9.9	22.2	22.2	50.3	37.6	11.1
FOMC10T-10U	5/8 16	1/2	7/8-14	12.3	25.4	22.2	59.8	43.2	12.7
FOMC12T-12U	3/4 18	3/4	1 1/16-12	15.5	31.7	31.8	65.5	50.0	15.1
FOMC14T-14U	7/8 22	3/4	1 3/16-12	18.3	34.9	34.9	68.1	50.5	15.1
FOMC16T-16U	1 25	1	1 5/16-12	21.4	38.1	38.1	70.8	51.8	15.1
FOMC20T-20U	1 1/4 32	1 1/4	1 5/8-12	27.4	47.6	50.8	73.6	55.1	15.1
FOMC24T-24U	1 1/2 38	1 1/2	1 7/8-12	33.3	53.9	57.2	86.9	60.2	15.1
FOMC32T-32U	2 50	2	2 1/2-12	45.2	69.8	73.0	98.1	70.6	15.1

All dimensions are in millimeters. Dimensions are for reference only, subject to change.

FOML

O-Ring Seal Male Elbow

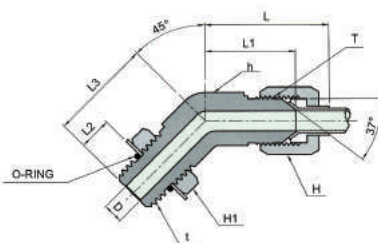


Part Number	Tube O.D. Inch Metric	T (UNF/UN)	t (UNF/UN)	D	h (HEX)	H (HEX)	H ₁ (HEX)	L	L ₁	L ₂	L ₃
FOML2T-02U	1/8 3	5/16-24	5/16-24	1.6	11.1	9.5	14.2	27.4	19.6	8.4	23.9
FOML3T-03U	3/16 4	3/8-24	3/8-24	3.2	11.1	11.1	15.8	30.5	21.1	8.4	23.9
FOML4T-04U	1/4 6	7/16-20	7/16-20	4.4	11.1	14.3	17.4	31.7	22.6	9.8	26.2
FOML5T-05U	5/16 8	1/2-20	1/2-20	6.0	14.3	15.9	19.0	34.5	24.1	9.8	28.7
FOML6T-06U	3/8 10	9/16-18	9/16-18	7.5	14.3	17.5	20.6	38.8	26.9	9.9	31.8
FOML8T-08U	1/2 12	3/4-16	3/4-16	9.9	19.0	22.2	25.4	44.5	31.8	11.0	36.8
FOML10T-10U	5/8 16	7/8-14	7/8-14	12.3	22.2	22.2	28.5	53.4	36.8	12.5	43.2
FOML12T-12U	3/4 18	1 1/16-12	1 1/16-12	15.5	27.0	31.8	34.9	57.7	42.2	16.5	49.3
FOML14T-14U	7/8 22	1 3/16-12	1 3/16-12	18.3	33.3	34.9	38.1	63.3	45.7	16.5	50.8
FOML16T-16U	1 25	1 5/16-12	1 5/16-12	21.4	33.3	38.1	41.2	65.0	46.0	16.5	52.1
FOML20T-20U	1 1/4 32	1 5/8-12	1 5/8-12	27.4	41.3	50.8	47.6	70.8	52.3	16.5	57.2
FOML24T-24U	1 1/2 38	1 7/8-12	1 7/8-12	33.3	47.6	57.2	53.9	85.9	59.2	16.5	60.7
FOML32T-32U	2 50	2 1/2-12	2 1/2-12	45.2	63.5	73.0	69.8	105.2	77.7	16.5	73.4

All dimensions are in millimeters. Dimensions are for reference only, subject to change.

FOHML

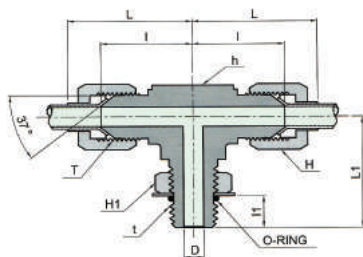
O-Ring Seal 45° Male Elbow



Part Number	Tube O.D. Inch Metric	T (UNF/UN)	t (UNF/UN)	D	h (HEX)	H (HEX)	H ₁ (HEX)	L	L ₁	L ₂	L ₃
FOHML2T-02U	1/8 3	5/16-24	5/16-24	1.6	11.1	9.5	14.2	25.3	17.5	8.4	23.9
FOHML3T-03U	3/16 4	3/8-24	3/8-24	3.2	11.1	11.1	15.8	26.9	17.5	8.4	23.9
FOHML4T-04U	1/4 6	7/16-20	7/16-20	4.4	11.1	14.3	17.4	27.4	18.3	9.8	23.6
FOHML5T-05U	5/16 8	1/2-20	1/2-20	6.0	14.3	15.9	19.0	30.3	19.6	9.8	25.4
FOHML6T-06U	3/8 10	9/16-18	9/16-18	7.5	14.3	17.5	20.6	33.0	21.1	9.9	28.4
FOHML8T-08U	1/2 12	3/4-16	3/4-16	9.9	19.0	22.2	25.4	37.6	24.9	11.0	32.5
FOHML10T-10U	5/8 16	7/8-14	7/8-14	12.3	22.2	22.2	28.5	44.8	28.2	12.5	36.6
FOHML12T-12U	3/4 18	1 1/16-12	1 1/16-12	15.5	27.0	31.8	34.9	48.0	32.5	16.5	43.9
FOHML14T-14U	7/8 22	1 3/16-12	1 3/16-12	18.3	33.3	34.9	38.1	54.4	36.8	16.5	45.7
FOHML16T-16U	1 25	1 5/16-12	1 5/16-12	21.4	33.3	38.1	41.2	56.3	37.3	16.5	47.2
FOHML20T-20U	1 1/4 32	1 5/8-12	1 5/8-12	27.4	41.3	50.8	47.6	58.9	40.4	16.5	48.5
FOHML24T-24U	1 1/2 38	1 7/8-12	1 7/8-12	33.3	47.6	57.2	53.9	71.9	45.2	16.5	48.5
FOHML32T-32U	2 50	2 1/2-12	2 1/2-12	45.2	63.5	73.0	69.8	83.9	56.4	16.5	47.2

All dimensions are in millimeters. Dimensions are for reference only, subject to change.

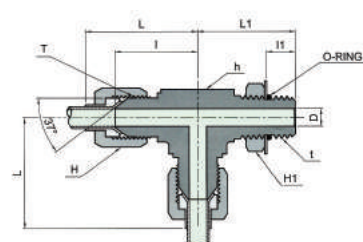
FOBT



Part Number	Tube O.D. Inch Metric	T (UNF/UN)	t (UNF/UN)	D	h (HEX)	H (HEX)	H ₁ (HEX)	L	L ₁	I	I ₁
FOBT2T-02U	1/8 3	5/16-24	5/16-24	1.6	11.1	9.5	14.2	27.4	23.9	19.6	8.4
FOBT3T-03U	3/16 4	3/8-24	3/8-24	3.2	11.1	11.1	15.8	30.5	23.9	21.1	8.4
FOBT4T-04U	1/4 6	7/16-20	7/16-20	4.4	11.1	14.3	17.4	31.7	26.2	22.6	9.8
FOBT5T-05U	5/16 8	1/2-20	1/2-20	6.0	14.3	15.9	19.0	34.5	28.7	24.1	9.8
FOBT6T-06U	3/8 10	9/16-18	9/16-18	7.5	14.3	17.5	20.6	38.8	31.8	26.9	9.9
FOBT8T-08U	1/2 12	3/4-16	3/4-16	9.9	19.0	22.2	25.4	44.5	36.8	31.8	11.0
FOBT10T-10U	5/8 16	7/8-14	7/8-14	12.3	22.2	22.2	28.5	53.4	43.2	36.8	12.5
FOBT12T-12U	3/4 18	1 1/16-12	1 1/16-12	15.5	27.0	31.8	34.9	57.7	49.3	42.2	16.5
FOBT14T-14U	7/8 22	1 3/16-12	1 3/16-12	18.3	33.3	35.0	38.1	63.3	50.8	45.7	16.5
FOBT16T-16U	1 25	1 5/16-12	1 5/16-12	21.4	33.3	38.0	41.2	65.0	52.1	46.0	16.5
FOBT20T-20U	1 1/4 32	1 5/8-12	1 5/8-12	27.4	41.3	50.8	47.6	70.8	57.2	52.3	16.5
FOBT24T-24U	1 1/2 38	1 7/8-12	1 7/8-12	33.3	47.6	57.2	53.9	85.9	60.7	59.2	16.5
FOBT32T-32U	2 50	2 1/2-12	2 1/2-12	45.2	63.5	73.0	69.8	105.2	73.4	77.7	16.5

FORT

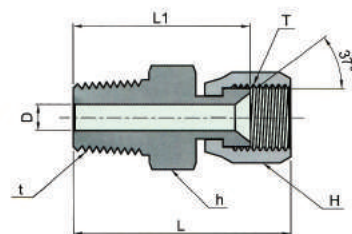
O-Ring Seal Run Tee



Part Number	Tube O.D. Inch Metric	T (UNF/UN)	t (UNF/UN)	D	h (HEX)	H (HEX)	H ₁ (HEX)	L	L ₁	I	I ₁
FORT2T-02U	1/8 3	5/16-24	5/16-24	1.6	11.1	9.5	14.2	27.4	23.9	19.6	8.4
FORT3T-03U	3/16 4	3/8-24	3/8-24	3.2	11.1	11.1	15.8	30.5	23.9	21.1	8.4
FORT4T-04U	1/4 6	7/16-20	7/16-20	4.4	11.1	14.3	17.4	31.7	26.2	22.6	9.8
FORT5T-05U	5/16 8	1/2-20	1/2-20	6.0	14.3	15.9	19.0	34.5	28.7	24.1	9.8
FORT6T-06U	3/8 10	9/16-18	9/16-18	7.5	14.3	17.5	20.6	38.8	31.8	26.9	9.9
FORT8T-08U	1/2 12	3/4-16	3/4-16	9.9	19.0	22.2	25.4	44.5	36.8	31.8	11.0
FORT10T-10U	5/8 16	7/8-14	7/8-14	12.3	22.2	22.2	28.5	53.4	43.2	36.8	12.5
FORT12T-12U	3/4 18	1 1/16-12	1 1/16-12	15.5	27.0	31.8	34.9	57.7	49.3	42.2	16.5
FORT14T-14U	7/8 22	1 3/16-12	1 3/16-12	18.3	33.3	34.9	38.1	63.3	50.8	45.7	16.5
FORT16T-16U	1 25	1 5/16-12	1 5/16-12	21.4	33.3	38.1	41.2	65.0	52.1	46.0	16.5
FORT20T-20U	1 1/4 32	1 5/8-12	1 5/8-12	27.4	41.3	50.8	47.6	70.8	57.2	52.3	16.5
FORT24T-24U	1 1/2 38	1 7/8-12	1 7/8-12	33.3	47.6	57.2	53.9	85.9	60.7	59.2	16.5
FORT32T-32U	2 50	2 1/2-12	2 1/2-12	45.2	63.5	73.0	69.8	105.2	73.4	77.7	16.5

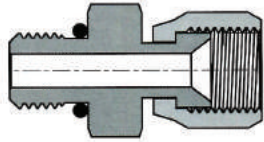
FMSC

Male Swivel Connector



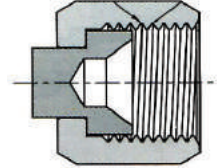
Part Number	Tube O.D. Inch Metric	T (UNF/UN)	t (NPT)	D	h (HEX)	H (HEX)	L	L ₁
FMSC2T-02N	1/8 3	5/16-24	1/8	1.6	11.1	11.1	30.0	22.0
FMSC3T-03N	3/16 4	3/8-24	1/8	3.2	11.1	12.7	32.0	23.5
FMSC4T-04N	1/4 6	7/16-20	1/8	4.4	12.7	14.2	34.2	25.5
FMSC5T-05N	5/16 8	1/2-20	1/8	6.0	14.2	16.0	35.0	25.5
FMSC6T-06N	3/8 10	9/16-18	1/4	7.5	16.0	17.4	40.2	30.7
FMSC8T-08N	1/2 12	3/4-16	3/8	9.9	21.0	22.2	42.7	32.0
FMSC10T-10N	5/8 16	7/8-14	1/2	12.3	23.8	25.4	51.3	38.6
FMSC12T-12N	3/4 18	1 1/16-12	3/4	15.5	29.0	32.0	54.5	40.2
FMSC14T-14N	7/8 22	1 3/16-12	3/4	18.3	32.0	35.0	56.0	41.2
FMSC16T-16N	1 25	1 5/16-12	1	21.4	36.0	38.0	63.7	48.6
FMSC20T-20N	1 1/4 32	1 5/8-12	1 1/4	27.4	46.0	50.8	68.9	53.0
FMSC24T-24N	1 1/2 38	1 7/8-12	1 1/2	33.3	50.0	57.2	77.6	59.0
FMSC32T-32N	2 50	2 1/2-12	2	45.2	66.7	73.0	92.9	69.1

All dimensions are in millimeters. Dimensions are for reference only, subject to change.

**FOMSC**

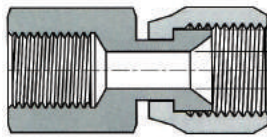
O-Ring Seal Male Swivel Connector

19

**FC**

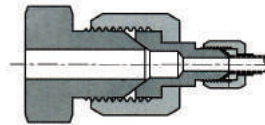
Tube Cap

21

**FFSC**

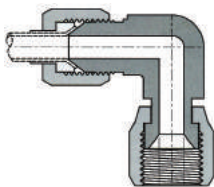
Female Swivel Connector

19

**FRA**

Reducer Adapter

21

**FSL**

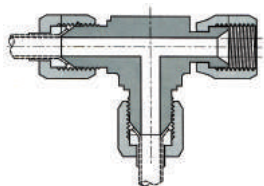
Swivel Elbow

19

**FLN**

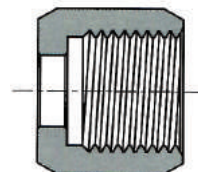
Blindhead Lock Nut

21

**FSRT**

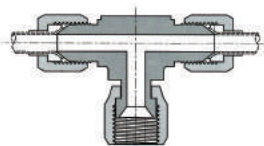
Swivel Run Tee

20

**FN**

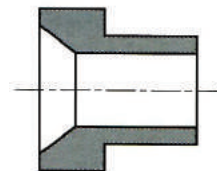
Nut

22

**FSBT**

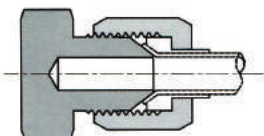
Swivel Branch Tee

20

**FS**

Sleeve

22

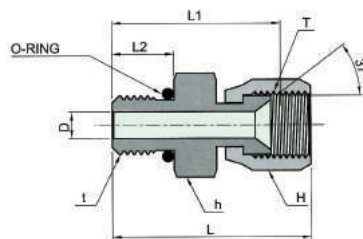
**FP**

Plug

20

FOMSC

O-Ring Seal Male Swivel Connector

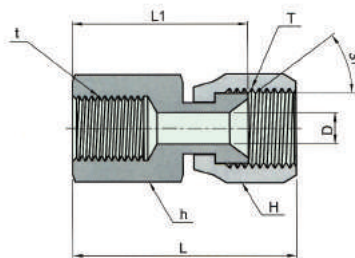


Part Number	Tube O.D. Inch Metric	T (UNF/UN)	t(NPT)	D	h (HEX)	H (HEX)	L	L ₁	L ₂
FOMSC2T-02U	1/8 3	5/16-24	1/8	1.6	11.1	11.1	30.4	22.5	7.5
FOMSC3T-03U	3/16 4	3/8-24	1/8	3.2	12.7	12.7	31.0	22.7	7.5
FOMSC4T-04U	1/4 6	7/16-20	1/8	4.4	14.2	14.2	33.9	25.2	9.1
FOMSC5T-05U	5/16 8	1/2-20	1/8	6.0	15.8	15.8	35.7	26.2	9.1
FOMSC6T-06U	3/8 10	9/16-18	1/4	7.5	17.4	19.0	37.4	27.9	9.9
FOMSC8T-08U	1/2 12	3/4-16	3/8	9.9	22.2	22.2	41.6	30.9	11.1
FOMSC10T-10U	5/8 16	7/8-14	1/2	12.3	25.4	27.0	47.6	34.9	12.7
FOMSC12T-12U	3/4 18	1 1/16-12	3/4	15.5	31.8	32.0	54.4	40.1	15.1
FOMSC14T-14U	7/8 22	1 3/16-12	3/4	18.3	34.9	34.9	55.6	40.9	15.1
FOMSC16T-16U	1 25	1 5/16-12	1	21.4	38.1	38.1	56.8	41.7	15.1
FOMSC20T-20U	1 1/4 32	1 5/8-12	1 1/4	27.4	47.6	50.8	63.2	47.3	15.1
FOMSC24T-24U	1 1/2 38	1 7/8-12	1 1/2	33.3	54.0	60.0	71.3	52.7	15.1
FOMSC32T-32U	2 50	2 1/2-12	2	45.2	70.0	73.0	72.5	58.7	15.1

All dimensions are in millimeters. Dimensions are for reference only, subject to change.

FFSC

Female Swivel Connector

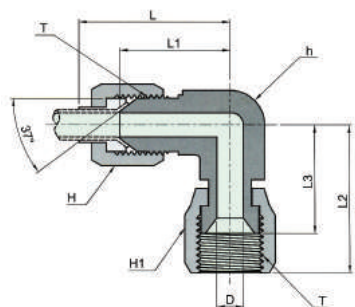


Part Number	Tube O.D. Inch Metric	T (UNF/UN)	t(NPT)	D	h (HEX)	H (HEX)	L	L ₁
FFSC2T-01N	1/8 3	5/16-24	1/8	1.6	11.1	11.1	36.1	28.2
FFSC3T-01N	3/16 4	3/8-24	1/8	3.2	12.7	12.7	37.3	29.0
FFSC4T-01N	1/4 6	7/16-20	1/8	4.4	14.2	14.2	39.7	31.0
FFSC5T-01N	5/16 8	1/2-20	1/8	6.0	15.8	16.0	40.5	31.0
FFSC6T-02N	3/8 10	9/16-18	1/4	7.5	19.0	17.4	45.8	36.3
FFSC8T-03N	1/2 12	3/4-16	3/8	9.9	22.2	22.2	47.0	38.9
FFSC10T-04N	5/8 16	7/8-14	1/2	12.3	27.0	25.4	51.6	48.0
FFSC12T-06N	3/4 18	1 1/16-12	3/4	15.5	32.0	32.0	66.6	52.3
FFSC14T-06N	7/8 22	1 3/16-12	3/4	18.3	34.9	35.0	67.8	53.1
FFSC16T-08N	1 25	1 5/16-12	1	21.4	38.1	38.0	73.5	58.4
FFSC20T-10N	1 1/4 32	1 5/8-12	1 1/4	27.4	50.8	50.8	78.1	62.2
FFSC24T-12N	1 1/2 38	1 7/8-12	1 1/2	33.3	60.0	57.2	86.7	68.1
FFSC32T-16N	2 50	2 1/2-12	2	45.2	73.0	73.0	89.3	65.5

All dimensions are in millimeters. Dimensions are for reference only, subject to change.

FSL

Swivel Elbow



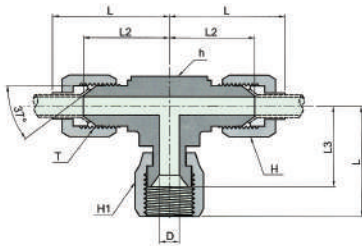
Part Number	Tube O.D. Inch Metric	T (UNF/UN)	D	h (HEX)	H (HEX)	H ₁ (HEX)	L	L ₁	L ₂	L ₃
FSL-2T	1/8 3	5/16-24	1.6	11.1	9.5	11.1	27.4	19.6	24.6	16.7
FSL-3T	3/16 4	3/8-24	3.2	11.1	11.1	12.7	30.5	21.1	25.4	17.1
FSL-4T	1/4 6	7/16-20	4.4	11.1	14.3	14.3	31.7	22.6	25.4	16.7
FSL-5T	5/16 8	1/2-20	6.0	14.3	15.9	15.9	34.5	24.1	26.9	17.4
FSL-6T	3/8 10	9/16-18	7.5	14.3	17.5	17.5	38.8	26.9	31.8	22.3
FSL-8T	1/2 12	3/4-16	9.9	19.0	22.2	22.2	44.5	31.8	35.1	24.4
FSL-10T	5/8 16	7/8-14	12.3	22.2	22.2	25.4	53.4	36.8	41.1	28.4
FSL-12T	3/4 18	1 1/16-12	15.5	27.0	31.8	31.8	57.7	42.2	44.4	30.1
FSL-14T	7/8 22	1 3/16-12	18.3	33.3	34.9	34.9	63.3	45.7	45.2	30.5
FSL-16T	1 25	1 5/16-12	21.4	33.3	38.1	38.1	65.0	46.0	50.8	35.7
FSL-20T	1 1/4 32	1 5/8-12	27.4	41.3	50.8	50.8	70.8	52.3	58.7	42.8
FSL-24T	1 1/2 38	1 7/8-12	33.3	47.6	57.2	57.2	85.9	59.2	65.8	47.2
FSL-32T	2 50	2 1/2-12	45.2	63.5	73.0	73.0	105.2	77.7	85.9	62.1

All dimensions are in millimeters. Dimensions are for reference only, subject to change.

SHINILACE FLARE TYPE

FSRT

Swivel Run Tee

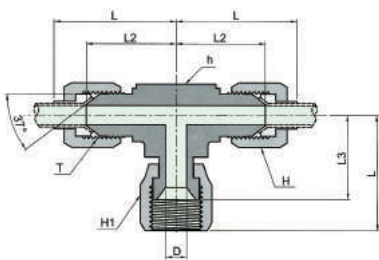


Part Number	Tube O.D. Inch Metric	T (UNF/UN)	D	h (HEX)	H (HEX)	H ₁ (HEX)	L	L ₁	L ₂	L ₃
FSRT-2T	1/8 3	5/16-24	1.6	11.1	9.5	11.1	27.4	24.6	19.6	16.7
FSRT-3T	3/16 4	3/8-24	3.2	11.1	11.1	12.7	30.5	25.4	21.1	17.1
FSRT-4T	1/4 6	7/16-20	4.4	11.1	14.3	14.3	31.7	25.4	22.6	16.7
FSRT-5T	5/16 8	1/2-20	6.0	14.3	15.9	15.9	34.5	26.9	24.1	17.4
FSRT-6T	3/8 10	9/16-18	7.5	14.3	17.5	17.5	38.8	31.8	26.9	22.3
FSRT-8T	1/2 12	3/4-16	9.9	19.0	22.2	22.2	44.5	35.1	31.8	24.4
FSRT-10T	5/8 16	7/8-14	12.3	22.2	22.2	25.4	53.4	41.1	36.8	28.4
FSRT-12T	3/4 18	1 1/16-12	15.5	27.0	31.8	31.8	57.7	44.4	42.2	30.1
FSRT-14T	7/8 22	1 3/16-12	18.3	33.3	34.9	34.9	63.3	45.2	45.7	30.5
FSRT-16T	1 25	1 5/16-12	21.4	33.3	38.1	38.1	65.0	50.8	46.0	35.7
FSRT-20T	1 1/4 32	1 5/8-12	27.4	41.3	50.8	50.8	70.8	58.7	52.3	42.8
FSRT-24T	1 1/2 38	1 7/8-12	33.3	47.6	57.2	57.0	85.9	65.8	59.2	47.2
FSRT-32T	2 50	2 1/2-12	45.2	63.5	73.0	73.0	105.2	85.9	77.7	62.1

All dimensions are in millimeters. Dimensions are for reference only, subject to change.

FSBT

Swivel Branch Tee

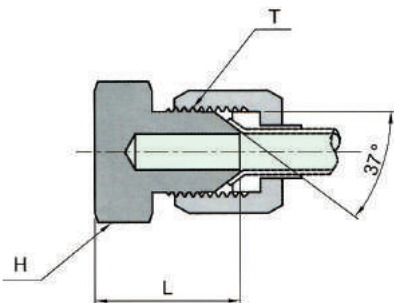


Part Number	Tube O.D. Inch Metric	T (UNF/UN)	D	h (HEX)	H (HEX)	H ₁ (HEX)	L	L ₁	L ₂	L ₃
FSBT-2T	1/8 3	5/16-24	1.6	11.1	9.5	11.1	27.4	24.6	19.6	16.7
FSBT-3T	3/16 4	3/8-24	3.2	11.1	11.1	12.7	30.5	25.4	21.1	17.1
FSBT-4T	1/4 6	7/16-20	4.4	11.1	14.3	14.3	31.7	25.4	22.6	16.7
FSBT-5T	5/16 8	1/2-20	6.0	14.3	16.0	15.9	34.5	26.9	24.1	17.4
FSBT-6T	3/8 10	9/16-18	7.5	14.3	17.5	17.5	38.8	31.8	26.9	22.3
FSBT-8T	1/2 12	3/4-16	9.9	19.0	22.2	22.2	44.5	35.1	31.8	24.4
FSBT-10T	5/8 16	7/8-14	12.3	22.2	22.2	25.4	53.4	41.1	36.8	28.4
FSBT-12T	3/4 18	1 1/16-12	15.5	27.0	32.0	31.8	57.7	44.4	42.2	30.1
FSBT-14T	7/8 22	1 3/16-12	18.3	33.3	34.9	34.9	63.3	45.2	45.7	30.5
FSBT-16T	1 25	1 5/16-12	21.4	33.3	38.1	38.1	65.0	50.8	46.0	35.7
FSBT-20T	1 1/4 32	1 5/8-12	27.4	41.3	50.8	50.8	70.8	58.7	52.3	42.8
FSBT-24T	1 1/2 38	1 7/8-12	33.3	47.6	57.2	57.0	85.9	65.8	59.2	47.2
FSBT-32T	2 50	2 1/2-12	45.2	63.5	73.0	73.0	105.2	85.9	77.7	62.1

All dimensions are in millimeters. Dimensions are for reference only, subject to change.

FP

Plug

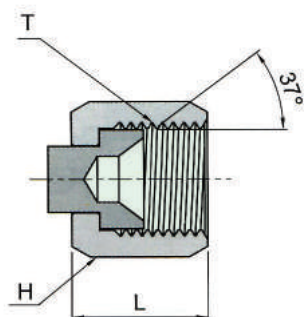


Part Number	Tube O.D. Inch Metric	T (UNF/UN)	h (HEX)	L
FP-2T	1/8 3	5/16-24	11.1	17.8
FP-3T	3/16 4	3/8-24	11.1	18.5
FP-4T	1/4 6	7/16-20	12.7	20.3
FP-5T	5/16 8	1/2-20	14.3	20.3
FP-6T	3/8 10	9/16-18	15.9	21.3
FP-8T	1/2 12	3/4-16	20.6	23.9
FP-10T	5/8 16	7/8-14	23.8	27.9
FP-12T	3/4 18	1 1/16-12	28.6	32.5
FP-14T	7/8 22	1 3/16-12	31.8	33.3
FP-16T	1 25	1 5/16-12	34.9	33.8
FP-20T	1 1/4 32	1 5/8-12	42.9	36.8
FP-24T	1 1/2 38	1 7/8-12	50.8	41.9
FP-32T	2 50	2 1/2-12	66.7	52.1

All dimensions are in millimeters. Dimensions are for reference only, subject to change.

FC

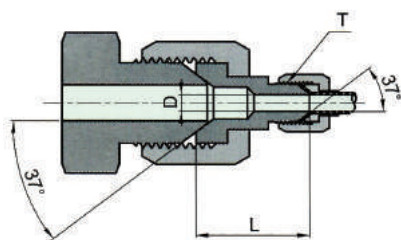
Tube Cap



Part Number	Tube O.D.		T (UNF/UN)	h (HEX)	L
	Inch	Metric			
FC-2T	1/8	3	5/16-24	9.5	13.7
FC-3T	3/16	4	3/8-24	11.1	15.2
FC-4T	1/4	6	7/16-20	14.3	15.5
FC-5T	5/16	8	1/2-20	15.9	17.0
FC-6T	3/8	10	9/16-18	17.5	18.3
FC-8T	1/2	12	3/4-16	22.2	21.3
FC-10T	5/8	16	7/8-14	22.2	24.6
FC-12T	3/4	18	1 1/16-12	31.8	25.9
FC-14T	7/8	22	1 3/16-12	34.9	27.4
FC-16T	1	25	1 5/16-12	38.1	28.4
FC-20T	1 1/4	32	1 5/8-12	50.8	31.0
FC-24T	1 1/2	38	1 7/8-12	57.2	35.8
FC-32T	2	50	2 1/2-12	73.0	44.2

FRA

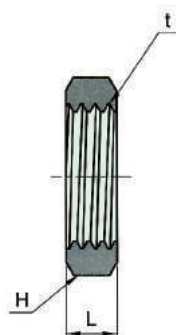
Reducer Adapter



Part Number	Reducing Tube O.D.	T (UNF/UN)	D	L
FRA6T-4T	1/8 x 1/4	7/16-20	4.4	24.6
FRA8T-4T	1/2 x 1/4	7/16-20	4.4	25.4
FRA8T-6T	1/2 x 3/8	9/16-18	7.5	25.4
FRA10T-4T	5/8 x 1/4	7/16-20	4.4	26.2
FRA10T-6T	5/8 x 3/8	9/16-18	7.5	26.2
FRA12T-4T	3/4 x 1/4	7/16-20	4.4	27.7
FRA12T-6T	3/4 x 3/8	9/16-18	7.5	27.7
FRA12T-8T	3/4 x 1/2	3/4-16	10.0	30.2
FRA16T-12T	1 x 3/4	1 1/16-12	15.5	37.3
FRA20T-12T	1 1/4 x 3/4	1 1/16-12	15.5	38.3
FRA20T-16T	1 1/4 x 1	1 5/16-12	21.5	40.3
FRA20T-20T	1 1/2 x 1 1/4	1 5/8-12	27.5	42.9

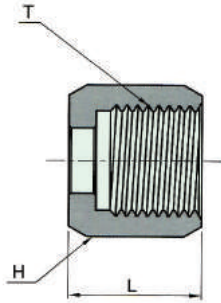
FLN

Bulkhead Lock Nut



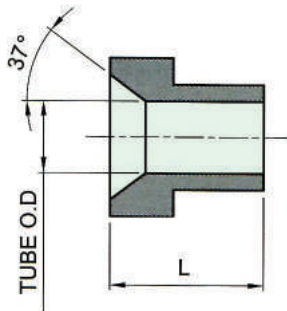
Part Number	Tube O.D.		T (UNF/UN)	h (HEX)	L
	Inch	Metric			
FLN-2T	1/8	3	5/16-24	14.3	5.6
FLN-3T	3/16	4	3/8-24	15.9	5.6
FLN-4T	1/4	6	7/16-20	17.5	7.1
FLN-5T	5/16	8	1/2-20	19.1	7.1
FLN-6T	3/8	10	9/16-18	20.6	6.9
FLN-8T	1/2	12	3/4-16	25.4	7.9
FLN-10T	5/8	16	7/8-14	28.6	9.1
FLN-12T	3/4	18	1 1/16-12	34.9	10.4
FLN-14T	7/8	22	1 3/16-12	38.1	10.4
FLN-16T	1	25	1 5/16-12	41.3	10.4
FLN-20T	1 1/4	32	1 5/8-12	47.6	10.4
FLN-24T	1 1/2	38	1 7/8-12	54.0	10.4
FLN-32T	2	50	2 1/2-12	69.9	10.4

SHINILACE FLARE TYPE

FN
Nut


Part Number	Tube O.D.		T (UNF/UN)	h (HEX)	L
	Inch	Metric			
FN-2T	1/8	3	5/16-24	9.5	14.0
FN-3T	3/16	4	3/8-24	11.1	15.5
FN-4T	1/4	6	7/16-20	14.3	75.8
FN-5T	5/16	8	1/2-20	15.9	17.3
FN-6T	3/8	10	9/16-18	17.5	18.5
FN-8T	1/2	12	3/4-16	22.2	21.6
FN-10T	5/8	16	7/8-14	22.2	24.9
FN-12T	3/4	18	1 1/16-12	31.8	26.2
FN-14T	7/8	22	1 3/16-12	34.9	27.7
FN-16T	1	25	1 5/16-12	38.1	28.7
FN-20T	1 1/4	32	1 5/8-12	50.8	31.2
FN-24T	1 1/2	38	1 7/8-12	57.2	36.1
FN-32T	2	50	2 1/2-12	73.0	44.5

All dimensions are in millimeters. Dimensions are for reference only, subject to change.

FS
Sleeve


Part Number		Tube O.D.		Tube O.D.	
Inch	Metric	Inch	Metric	Inch	Metric
FS-2T	FS-2MT	1/8	-	8.6	-
FS-3T	FS-3MT	3/16	-	8.6	-
FS-4T	FS-4MT	1/4	6	10.4	10.4
FS-5T	FS-5MT	5/16	8	11.2	11.2
FS-6T	FS-6MT	3/8	10	12.7	12.7
FS-8T	FS-8MT	1/2	12	14.2	14.2
FS-10T	FS-10MT	5/8	16	16.8	16.8
FS-12T	FS-12MT	3/4	18	17.3	17.3
FS-14T	FS-14MT	7/8	22	19.3	19.3
FS-16T	FS-16MT	1	25	19.8	19.8
FS-20T	FS-20MT	1 1/4	32	23.1	23.1
FS-24T	FS-24MT	1 1/2	38	28.4	28.4
FS-32T	FS-32MT	2	50	30.2	30.2

All dimensions are in millimeters. Dimensions are for reference only, subject to change.

SILVER BRAZING TYPE



SHINILACE SILVER BRAZING TYPE

1. Applicable pipe

- Copper pipe, size 8A(O.D 12mm)~ 50A(O.D 57mm)
- AL-BR pipe, size 8A(O.D 12mm)~ 50A(O.D 57mm)

2. Nominal pressure

- Ambient temp. : -30°C~40°C

Class	Nominal Pressure (kgf/cm ²)	Designation mark
Low pressure Fittings	50	K50
High pressure Fittings	210	k21

- Remark 1. see part A2.Nominal Pressure under high temperature for over the above ambient Temperature
- 2. The silver wire starts melting at temperature 635°C

3. Materials for silver brazing type fittings

- JIS H3250 C3604 for union nut, C3771
- JIS H3300 C6870, C6871, C6872
- JIS E3261 BAG1, BAG1A, BAG7 for silver wire

4. Designation of pipe size

Unit:mm										
Nominal size(A)	8	10	15	20	25	32	32	40	40	50
Pipe O.D	12	16	20	25	30	38	40	44.5	45	55
Mark	12	16	20	25	30	38	40	44	45	55

5. Instruction

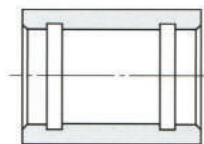
It is Recommended to do cleaning fitting and pipe, before brazing, and to use suitable brazing fluk & ambient gas for attain good brazing quality

The fittings for brazing shall be uniformaly heated to a temperature between 650°C and 760°C at around each part of silver ring zone

Rapid cooling after brazing can cause cracking by contraction

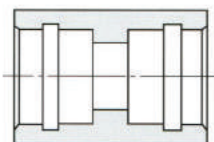
IS
Sleeve-50K

26



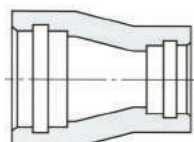
IC
Coupling-50K

26



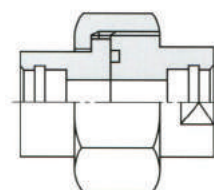
IR
Reducer-50K

26



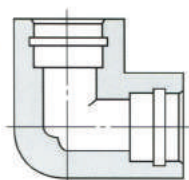
IU
Union-50K

26



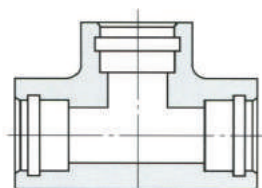
IL
Elbow-50K

27



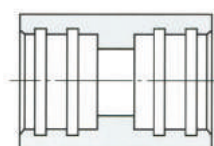
IT
Tee-50K

27



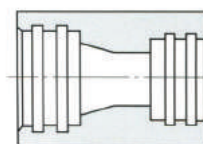
IC
Coupling-210K

27



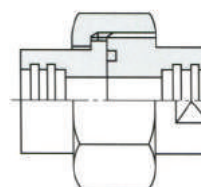
IR
Reducer-201K

27



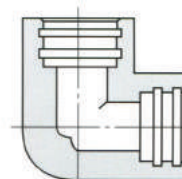
IU
Union-210K

28



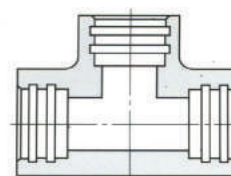
IL
Elbow-210K

28



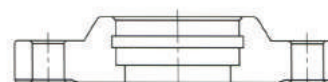
IT
Tee-210K

28



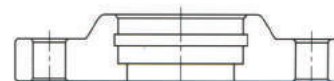
FLANGE
Class 150 & Class 300

29



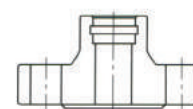
FLANGE
5K, 10K, 20K, 30K

29



FLANGE
5K, 10K, 20K, 30K

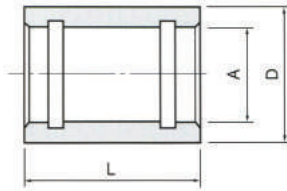
29



SHINILACE SILVER BRAZING TYPE

IS

Sleeve - 50K



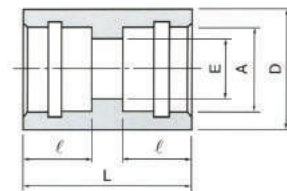
Unit:mm

Designations	Pipe O.D. A	D	L
IS-K05-12	12	18	23
IS-K05-16	16	22	23
IS-K05-20	20	27	23
IS-K05-25	25	32	23
IS-K05-30	30	38	34
IS-K05-38	38	45	34
IS-K05-40	40	47	34
IS-K05-44	44.5	52	34
IS-K05-45	45	53	34
IS-K05-55	55	63	35
IS-K05-57	57	65	35

Unit:mm

IC

Coupling - 50K

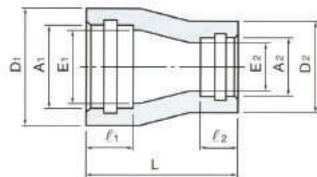


Designations	Pipe O.D. A	E	D	l	L
IC-K05-12	12	10	18	10	23
IC-K05-16	16	14	22	10	23
IC-K05-20	20	17	27	10	23
IC-K05-25	25	22	32	10	23
IC-K05-30	30	27	38	15	34
IC-K05-38	38	34	45	15	34
IC-K05-40	40	36	47	15	34
IC-K05-44	44.5	40	52	15	34
IC-K05-45	45	40	53	15	34
IC-K05-55	55	49	63	15	35
IC-K05-57	57	51	65	15	35

Unit:mm

IR

Reducer - 50K

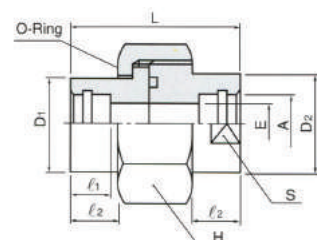


Designations	Pipe O.D.			Pipe O.D.			l ₁	l ₂	L
	A ₁	E ₁	D ₁	A ₂	E ₂	D ₂			
IR-K05-1612	16	14	22	12	10	18	10	10	27
IR-K05-2012	20	17	27	12	10	18	10	10	35
IR-K05-2016	20	17	27	16	14	22	10	10	27
IR-K05-2512	25	22	32	12	10	18	10	10	40
IR-K05-2516	25	22	32	16	14	22	10	10	35
IR-K05-2520	25	22	32	20	17	27	10	10	27
IR-K05-3016	30	27	38	16	14	22	15	10	35
IR-K05-3020	30	27	38	20	17	27	15	10	34
IR-K05-3025	30	27	38	25	22	32	15	10	30
IR-K05-3820	38	34	45	20	17	27	15	10	45
IR-K05-3825	38	34	45	25	22	32	15	10	41
IR-K05-3830	38	34	45	30	27	38	15	15	36
IR-K05-4425	44.5	40	52	25	22	32	15	10	49
IR-K05-4430	44.5	40	52	30	27	38	15	15	44
IR-K05-4438	44.5	40	52	38	34	45	15	15	42
IR-K05-5730	57	51	65	30	27	38	15	15	50
IR-K05-5738	57	51	65	38	34	45	15	15	49
IR-K05-5744	57	51	65	44.5	40	52	15	15	48

Unit:mm

IU

Union - 50K

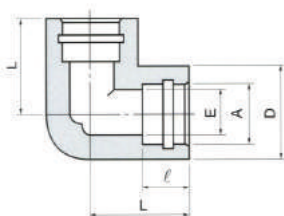


Designations	Pipe O.D.		D ₁	D ₂	H	S	l ₁	l ₂	L
	A ₁	E							
IU-K05-12	12	10	18	21	10	10	30	18	38
IU-K05-16	16	14	22	24	10	10	36	21	38
IU-K05-20	20	17	26	28	10	10	41	25	38
IU-K05-25	25	21	32	34	10	12	46	31	46
IU-K05-30	30	27	37	40	15	13	55	37	50
IU-K05-38	38	34	46	49	15	15	65	45	58
IU-K05-40	40	35	46	49	15	15	65	45	58
IU-K05-44	44.5	40	55	58	15	16	74	54	62
IU-K05-45	45	40	55	58	15	16	74	54	62
IU-K05-55	55	49	62	66	15	18	83	61	70
IU-K05-57	57	51	64	68	15	18	83	63	70

SHINILACE SILVER BRAZING TYPE

IL

Elbow - 50K



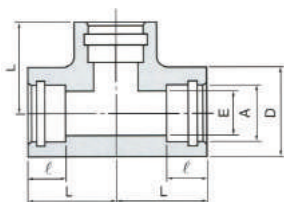
Unit:mm

Designations	Pipe O.D. A	E	D	l	L
IL-K05-12	12	10	18	10	18
IL-K05-16	16	14	22	10	20
IL-K05-20	20	17	27	10	23
IL-K05-25	25	22	32	10	27
IL-K05-30	30	27	38	15	33
IL-K05-38	38	34	45	15	36
IL-K05-40	40	36	47	15	37
IL-K05-44	44.5	40	52	15	40
IL-K05-45	45	40	53	15	40
IL-K05-55	55	49	63	15	49
IL-K05-57	57	51	65	15	49

Unit:mm

IT

Tee - 50K

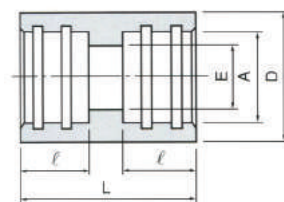


Designations	Pipe O.D. A	E	D	l	L
IT-K05-12	12	10	18	10	18
IT-K05-16	16	14	22	10	20
IT-K05-20	20	17	27	10	23
IT-K05-25	25	22	32	10	27
IT-K05-30	30	27	38	15	33
IT-K05-38	38	34	45	15	36
IT-K05-40	40	36	47	15	37
IT-K05-44	44.5	40	52	15	40
IT-K05-45	45	40	53	15	40
IT-K05-55	55	49	63	15	49
IT-K05-57	57	51	65	15	49

Unit:mm

IC

Coupling - 210K

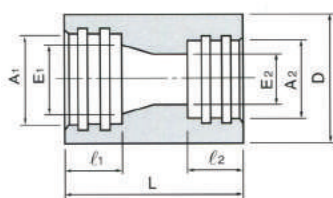


Designations	Pipe O.D. A	E	D	l	L
IC-K21-12	12	7	21	20	45
IC-K21-16	16	9	27	20	45
IC-K21-20	20	11	32	20	45
IC-K21-25	25	15	38	20	45
IC-K21-30	30	18	45	24	55
IC-K21-38	38	24	55	24	55
IC-K21-40	40	26	55	24	55
IC-K21-44	44.5	30	62	24	55
IC-K21-45	45	30	62	24	55
IC-K21-55	55	38	75	30	70
IC-K21-57	57	40	77	30	70

Unit:mm

IR

Reducer - 210K

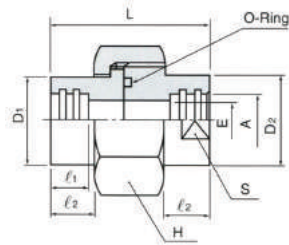


Designations	Pipe O.D. A ₁	E ₁	Pipe O.D. A ₂	E ₂	D	l ₁	l ₂	L
IR-K21-1612	16	9	12	7	27	20	20	50
IR-K21-2012	20	11	12	7	32	20	20	50
IR-K21-2016	20	11	16	9	32	20	20	50
IR-K21-2512	25	15	12	7	38	20	20	50
IR-K21-2516	25	15	16	9	38	20	20	50
IR-K21-2520	25	15	20	11	38	20	20	50
IR-K21-3016	30	18	16	9	45	24	20	56
IR-K21-3020	30	18	20	11	45	24	20	56
IR-K21-3025	30	18	25	15	45	24	20	56
IR-K21-3820	38	24	20	11	55	24	20	56
IR-K21-3825	38	24	25	15	55	24	20	56
IR-K21-3830	38	24	30	18	55	24	24	60
IR-K21-4425	44.5	30	25	15	62	24	20	56
IR-K21-4430	44.5	30	30	18	62	24	24	60
IR-K21-4438	44.5	30	38	24	62	24	24	60
IR-K21-5730	57	40	30	18	75	30	24	70
IR-K21-5738	57	40	38	24	75	30	24	70
IR-K21-5744	57	40	44.5	30	75	30	24	70

SHINILACE SILVER BRAZING TYPE

IU

Union-210K

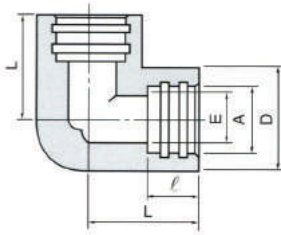


Unit:mm

Designations	Pipe O.D. A	E	D ₁	D ₂	H	S	<i>l</i> ₁	<i>l</i> ₂	L
IU-K21-12	12	8	22	24	36	21	15	12	42
IU-K21-16	16	10	26	28	41	25	16	13	44
IU-K21-20	20	12	31	34	46	31	16	12	46
IU-K21-25	25	15	37	40	55	37	18	13	50
IU-K21-30	30	20	46	49	65	45	20	14	56
IU-K21-38	38	24	55	58	74	54	24	18	66
IU-K21-40	40	26	55	58	74	54	24	18	66
IU-K21-44	44.5	30	61	65	83	60	24	19	68
IU-K21-45	45	30	61	65	83	60	24	19	68
IU-K21-55	55	38	75	79	100	73	30	22	80
IU-K21-57	57	40	76	80	100	74	30	22	80

IL

Elbow-210K

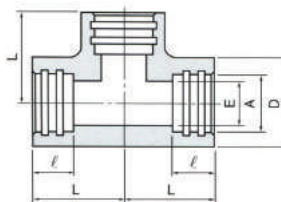


Unit:mm

Designations	Pipe O.D. A	E	D	<i>l</i>	L
IL-K21-12	12	7	21	15	26
IL-K21-16	16	9	27	16	30
IL-K21-20	20	11	32	16	32
IL-K21-25	25	15	38	18	37
IL-K21-30	30	18	45	20	42
IL-K21-38	38	24	55	24	48
IL-K21-40	40	26	55	24	48
IL-K21-44	44.5	30	62	24	58
IL-K21-45	45	30	62	24	58
IL-K21-55	55	38	75	30	68
IL-K21-57	57	40	77	30	68

IT

Tee-210K



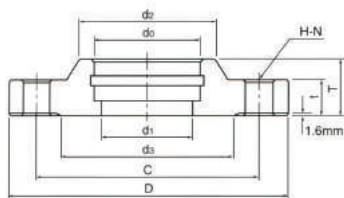
Unit:mm

Designations	Pipe O.D. A	E	D	<i>l</i>	L
IT-K21-12	12	7	21	15	26
IT-K21-16	16	9	27	16	30
IT-K21-20	20	11	32	16	32
IT-K21-25	25	15	38	18	37
IT-K21-30	30	18	45	20	42
IT-K21-38	38	24	55	24	48
IT-K21-40	40	26	55	24	48
IT-K21-44	44.5	30	62	24	58
IT-K21-45	45	30	62	24	58
IT-K21-55	55	38	75	30	68
IT-K21-57	57	40	77	30	68

SHINILACE SILVER BRAZING TYPE

FLANGE

Class 150 & Class 300



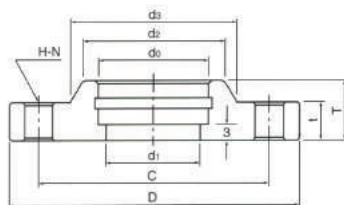
· Class 150

Nominal Size(in)	Tube O.D d ₀	D	d ₁	d ₂	d ₃	t	T	C	H	N
1/2	16	89	14	21	30	9	21	60.3	1/2	4
3/4	25	98	22	31	38	8	24	69.8	1/2	4
1	30	108	27	36	49	9	24	79.4	1/2	4
1 1/4	38	117	35	44	59	11	26	88.9	1/2	4
1 1/2	44.5	127	41.5	51	65	11	26	98.4	1/2	4
2	57	152	54	67	78	13	28	120.6	5/8	4

· Class 300

Nominal Size(in)	Tube O.D d ₀	D	d ₁	d ₂	d ₃	t	T	C	H	N
1/2	16	95	14	21	38	9	21	66.7	5/8	4
3/4	25	117	22	31	48	11	27	82.6	3/4	4
1	30	124	27	36	54	11	27	88.9	3/4	4
1 1/4	38	134	35	44	64	12	28	98.4	3/4	4
1 1/2	44.5	156	41.5	51	70	13	28	114.3	7/8	4
2	57	165	54	67	84	13	28	127	3/4	8

FLANGE

5Kg, 10Kg, 20Kg & 30Kg.f/cm²ACTUAL USING RATING PRESSURE
5Kgf/cm², 10Kgf/cm²· 5kgf/cm²

Nominal Size(A)	Tube O.D d ₀	D	d ₁	d ₂	d ₃	t	T	C	H	N	Silver-Ring
15	20	80	18	30	34	9	15	60	12	4	1×3
20	25	85	22	37	41	10	16	65	12	4	1×3
25	30	95	27	43	47	10	16	75	12	4	1×3
32	38	115	35	50	54	12	8	90	15	4	1×3
40	44.5	120	41.5	57	60	12	18	95	15	4	1×3

· 10kgf/cm²

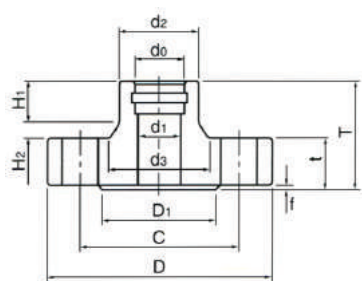
Nominal Size(A)	Tube O.D d ₀	D	d ₁	d ₂	d ₃	t	T	C	H	N	Silver-Ring
15	20	95	18	30	34	12	16	70	15	4	1×3
20	25	100	22	37	41	14	18	75	15	4	1×3
25	30	125	27	43	47	14	18	90	19	4	1×3
32	38	135	35	50	54	16	20	100	19	4	1×3
40	44.5	140	41.5	57	60	16	20	105	19	4	1×3

· 20kgf/cm²

Nominal Size(A)	Tube O.D d ₀	D	D ₁	d ₁	d ₂	d ₃	f	t	T	H ₁	H ₂	C	H	N	Silver-Ring
15	20	95	54	17	34	40	1	14	36	17	5	70	4	15	1×3
20	25	100	59	22	40	45	1	16	38	17	5	75	4	15	1×3
25	30	125	70	27	48	54	2	16	42	20	6	90	4	19	1×4
32	38	135	75	35	56	61	2	18	48	24	6	100	4	19	1×4
40	44.5	140	90	41.5	62	68	2	18	50	24	6	105	4	19	1×4

· 30kgf/cm²

Nominal Size(A)	Tube O.D d ₀	D	D ₁	d ₁	d ₂	d ₃	f	t	T	H ₁	H ₂	C	H	N	Silver-Ring
15	20	115	55	17	36	40	1	18	45	19	8	80	4	19	1×4
20	25	120	60	22	42	46	1	18	45	19	8	85	4	19	1×4
25	30	130	70	27	50	54	2	20	50	22	8	95	4	19	1×5
32	38	140	75	35	60	64	2	22	53	23	8	105	4	19	1×5
40	44.5	160	90	41.5	66	70	2	22	56	26	8	120	4	23	1×5

ACTUAL USING RATING PRESSURE
20Kgf/cm², 30Kgf/cm²

PIPE TYPE



1. Applicable pipe

- Stainless steel pipe, size 50A(2) and belows
- Carbon steel pipe, size 50A(2) and belows

2. Nominal pressure of fittings

- Ambient temp. : -30°C~40°C (see part A 4)

JIS	ANSI	Nominal pressure of fittings
Schedule 80	# 3,000	210kgf/cm ²
Schedule 160	# 6,000	420kgf/cm ²

- Remark. Test pressure of JIS pipe S80 is 120kgf/cm² and S160 is 200kgf/cm²

3. Materials for silver brazing type fittings

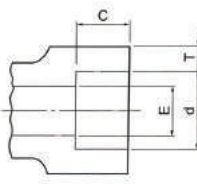
- JIS G4304 SUS304, SUS316
- JIS G3101 SS400
- JIS G3210 SF440A
- or equivalent materials of ASTM

4. Desingnation of pipe size

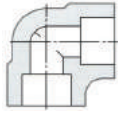
- Parallel pipe threads, JIS B0202, mark G, PF
- Taper pipe threads, JIS B0203, mark R, PT
- Metric fine screw threads, JIS B0207, mark M According to order
- American standard taper pipe threads, ANSI B 2.1 mark NPT
- Unified fine thread series, ANSI B 1.1, mark UNF

5. End dimensional data of ansi pipe fittings

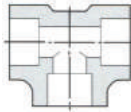
Unit: mm

END PROFILE	Nominal size		$d^{+0.3}_0$	# 3,000		# 6,000		C min
	A	B		E	T min.	E	T min.	
	6	1/8	10.7	6.9	3.2	-	-	9.52
	8	1/4	14.1	9.3	3.3	-	-	
	10	3/8	17.5	12.5	3.5	-	-	
	15	1/2	21.7	15.8	4.1	11.8	5.2	
	20	3/4	27.1	20.9	4.55	15.6	6.05	12.7
	25	1	33.8	26.6	5.0	20.7	6.95	
	32	1 1/4	42.6	35.0	5.3	29.5	6.95	
	40	1 1/2	48.6	40.9	5.55	34.0	7.8	
	50	2	61.1	52.5	6.03	42.7	9.5	15.87

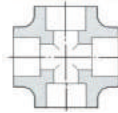
SHINILACE PIPE TYPE

SWLA
90° Elbow

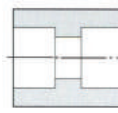
33

SWTA
Tee

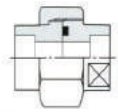
33

SWXA
Cross

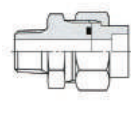
33

SWFC
Full Coupling

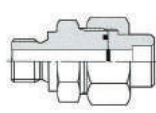
34

SWUA
Union

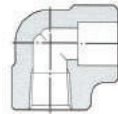
34

SWMC-R
Male Connector

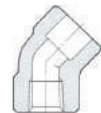
34

SWMC-G
Male Connector

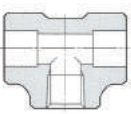
34

SLD
90° Special Elbow

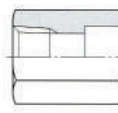
35

SLE
45° Special Elbow

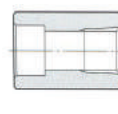
35

STB
Special Tee

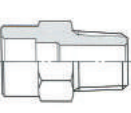
35

SSB
Special Socket

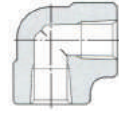
35

SSC
Special Coupling

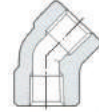
36

SSD
S/W Male Adaptor

36

SLA
90° Elbow

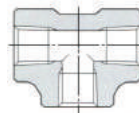
36

SLB
45° Elbow

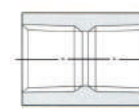
36

SLC
Street Elbow

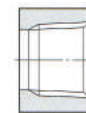
37

STA
Tee

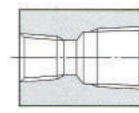
37

SFC
Full Coupling

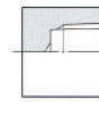
37

SHC
Half Coupling

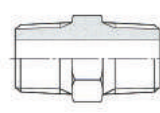
37

SRC
Reducing Coupling

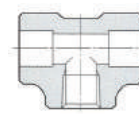
38

SCA
Cap

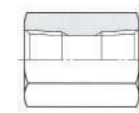
38

SNA
Hex Nipple

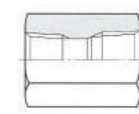
38

SNR
Reducing Nipple

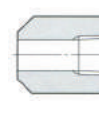
39

SSA
Hex Socket

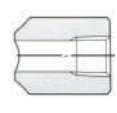
39

SSR
Reducing Scket

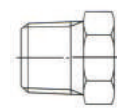
39

SBA
Boss Type A

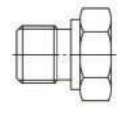
40

SBR
Boss Type R

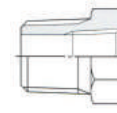
40

SPB
Hex Head Plug

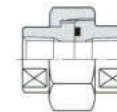
40

SPC
Hex Head Plug

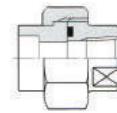
40

SHB
Hex Bushing

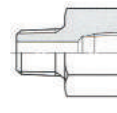
41

SUA
Union Type A

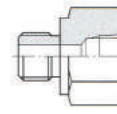
41

SUB
Union Type B

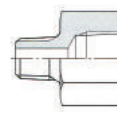
41

MFAA
Male/Female Adaptor
Type A

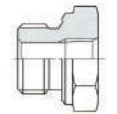
41

MFAB
Male/Female Adaptor
Type B

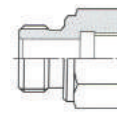
42

MFAC
Male/Female Adaptor
Type C

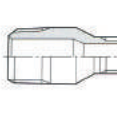
42

MFAD
Male/Female Adaptor
Type D

42

MFAE
Male/Female Adaptor
Type E

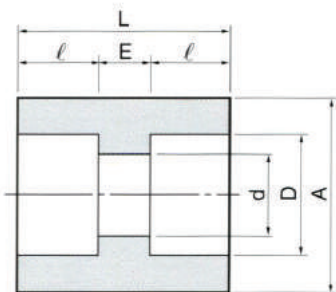
43

MSS-SP-95
Swaged Nipple

43

SWLA

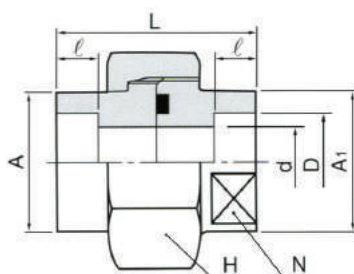
90° Elbow



Designations	Nom. Size	D	/	d	A	B	L
Sch. 80							
SWLA02-S80	1/4	14.3	11.4	9.4	23	11.1	22.5
SWLA03-S80	3/8	17.8	11.5	12.7	26	13.5	25
SWLA04-S80	1/2	22.2	13.1	16.1	33	15.9	29
SWLA06-S80	3/4	27.7	14.9	21.4	39	19.1	34
SWLA08-S80	1	34.5	15.8	27.2	47	22.2	38
SWLA10-S80	1 1/4	43.2	18.0	35.5	57	27.0	45
SWLA12-S80	1 1/2	49.1	19.2	41.2	63	31.8	51
SWLA16-S80	2	61.1	21.9	52.7	76	38.1	60
Sch. 160							
SWLA04-S160	1/2	22.2	14.9	12.3	39	19.1	34
SWLA06-S160	3/4	27.7	15.8	16.2	47	22.2	38
SWLA08-S160	1	34.5	18.0	21.2	57	27.0	45
SWLA10-S160	1 1/4	43.2	19.2	29.9	63	31.8	51
SWLA12-S160	1 1/2	49.1	21.9	34.4	76	38.1	60
SWLA16-S160	2	61.1	25.7	43.1	96	41.3	67

SWTA

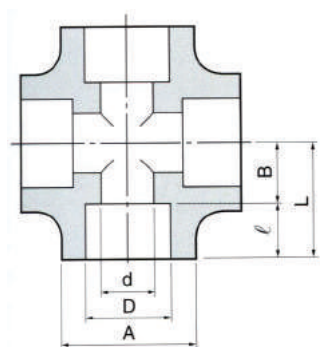
Tee



Designations	Nom. Size	D	/	d	A	B	L
Sch. 80							
SWTA02-S80	1/4	14.3	11.4	9.4	23	11.1	22.5
SWTA03-S80	3/8	17.8	11.5	12.7	26	13.5	25
SWTA04-S80	1/2	22.2	13.1	16.1	33	15.9	29
SWTA06-S80	3/4	27.7	14.9	21.4	39	19.1	34
SWTA08-S80	1	34.5	15.8	27.2	47	22.2	38
SWTA10-S80	1 1/4	43.2	18.0	35.5	57	27.0	45
SWTA12-S80	1 1/2	49.1	19.2	41.2	63	31.8	51
SWTA16-S80	2	61.1	21.9	52.7	76	38.1	60
Sch. 160							
SWTA04-S160	1/2	22.2	14.9	12.3	39	19.1	34
SWTA06-S160	3/4	27.7	15.8	16.2	47	22.2	38
SWTA08-S160	1	34.5	18.0	21.2	57	27.0	45
SWTA10-S160	1 1/4	43.2	19.2	29.9	63	31.8	51
SWTA12-S160	1 1/2	49.1	21.9	34.4	76	38.1	60
SWTA16-S160	2	61.1	25.7	43.1	96	41.3	67

SWXA

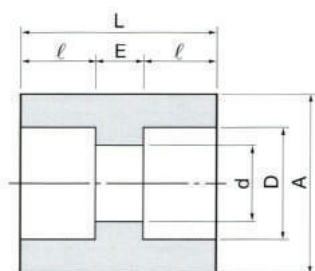
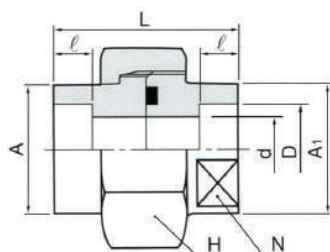
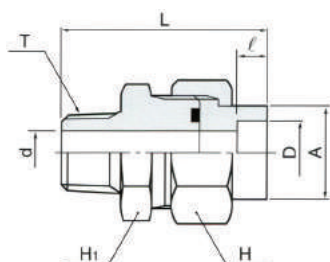
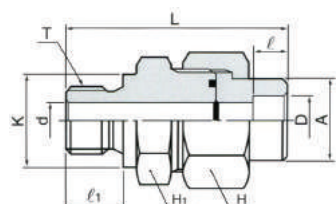
Cross



Designations	Nom. Size	D	/	d	A	B	L
Sch. 80							
SWXA02-S80	1/4	14.3	11.4	9.4	23	11.1	22.5
SWXA03-S80	3/8	17.8	11.5	12.7	26	13.5	25
SWXA04-S80	1/2	22.2	13.1	16.1	33	15.9	29
SWXA06-S80	3/4	27.7	14.9	21.4	39	19.1	34
SWXA08-S80	1	34.5	15.8	27.2	47	22.2	38
SWXA10-S80	1 1/4	43.2	18.0	35.5	57	27.0	45
SWXA12-S80	1 1/2	49.1	19.2	41.2	63	31.8	51
SWXA16-S80	2	61.1	21.9	52.7	76	38.1	60
Sch. 160							
SWXA04-S160	1/2	22.2	14.9	12.3	39	19.1	34
SWXA06-S160	3/4	27.7	15.8	16.2	47	22.2	38
SWXA08-S160	1	34.5	18.0	21.2	57	27.0	45
SWXA10-S160	1 1/4	43.2	19.2	29.9	63	31.8	51
SWXA12-S160	1 1/2	49.1	21.9	34.4	76	38.1	60
SWXA16-S160	2	61.1	25.7	43.1	96	41.3	67

All dimensions are in millimeters. Dimensions are for reference only, subject to change.

SHINILACE PIPE TYPE

SWFC
Full Coupling

SWUA
Union

SWMC-R
Male Connector

SWMC-G
Male Connector


Designations	Nom. Size	D	/	d	A	E	L
Sch. 80							
SWFC02-S80	1/4	14.3	10	9.4	22	6.4	26.4
SWFC03-S80	3/8	17.8	10	12.7	25	6.4	26.4
SWFC04-S80	1/2	22.2	10	16.1	32	9.5	29.5
SWFC06-S80	3/4	27.7	13	21.4	38	9.5	35.5
SWFC08-S80	1	34.5	13	27.2	45	12.7	38.7
SWFC10-S80	1 1/4	43.2	13	35.5	55	12.7	38.7
SWFC12-S80	1 1/2	49.1	13	41.2	63	12.7	38.7
SWFC16-S80	2	61.1	16	52.7	75	19.1	51.1

Sch. 160							
SWFC04-S160	1/2	22.2	13	12.3	34	9.5	35.5
SWFC06-S160	3/4	27.7	13	16.2	42	9.5	35.5
SWFC08-S160	1	34.5	13	21.2	52	12.7	38.7
SWFC10-S160	1 1/4	43.2	13	29.9	60	12.7	38.7
SWFC12-S160	1 1/2	49.1	16	34.4	68	12.7	44.7
SWFC16-S160	2	61.1	16	43.1	85	19.1	51.1

Designations	Nom. Size	D	/	d	A	A ₁	N	L	H	O-ring
SWUA02	1/4	14.3	10	9.4	22	24	21	38	HEX36	P18
SWUA03	3/8	17.8	10	12.7	27	29	26	38	HEX41	P20
SWUA04	1/2	22.2	10	16.1	32	35	32	44	HEX46	G25
SWUA06	3/4	27.7	13	21.4	37	41	37	50	HEX55	G30
SWUA08	1	34.5	13	27.2	44	47	44	56	HEX60	G35
SWUA10	1 1/4	43.2	13	35.5	54	54	51	60	OCT75	G45
SWUA12	1 1/2	49.1	13	41.2	63	65	60	72	OCT85	G50
SWUA16	2	61.1	16	52.7	76	80	75	72	OCT94	G65

Designations	Nom. Size	D	/	d	A	L	H	H ₁	T R(PT)	O-ring
SWMC02-02R	1/4	14.3	10	7	22	54	HEX36	HEX30	1/4	P18
SWMC02-03R	1/4	14.3	10	9	22	55	HEX36	HEX30	3/8	P18
SWMC03-03R	3/8	17.8	10	9	27	56	HEX41	HEX36	3/8	P20
SWMC03-04R	3/8	17.8	10	12	27	56	HEX41	HEX36	1/2	P20
SWMC04-04R	1/2	22.2	10	12	32	60	HEX46	HEX41	1/2	G25
SWMC04-06R	1/2	22.2	10	16	32	66	HEX46	HEX41	3/4	G25
SWMC06-06R	3/4	27.7	13	16	37	72	HEX55	HEX46	3/4	G30
SWMC06-08R	3/4	27.7	13	20	37	75	HEX55	HEX46	1	G30
SWMC08-08R	1	34.5	13	20	44	82	HEX60	HEX55	1	G35
SWMC08-10R	1	34.5	13	25	44	84	HEX60	HEX55	1 1/4	G35
SWMC10-10R	1 1/4	43.2	13	25	54	90	OCT75	OCT65	1 1/4	G45
SWMC10-12R	1 1/4	43.2	13	32	54	91	OCT75	OCT65	1 1/2	G45
SWMC12-12R	1 1/2	49.1	13	32	63	99	OCT85	OCT74	1 1/2	G50
SWMC12-16R	1 1/2	49.1	13	38	63	103	OCT85	OCT74	2	G50
SWMC16-16R	2	61.1	16	38	76	103	OCT94	OCT86	2	G65

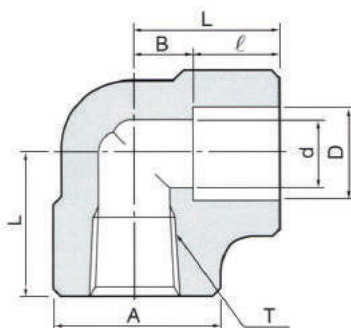
Designations	Nom. Size	D	/	d	K	A	l ₁	L	H	H ₁	T R(PT)	O-ring
SWMC02-02G	1/4	14.3	10	7	18	22	12	54	HEX36	HEX30	1/4	P18
SWMC03-03G	1/4	14.3	10	9	21.5	22	12	55	HEX36	HEX30	3/8	P18
SWMC03-03G	3/8	17.8	10	9	21.5	27	12	55	HEX41	HEX36	3/8	P20
SWMC03-04G	3/8	17.8	10	12	25.5	27	14	57	HEX41	HEX36	1/2	P20
SWMC04-04G	1/2	22.2	10	12	25.5	32	14	61	HEX46	HEX41	1/2	G25
SWMC04-06G	1/2	22.2	10	16	31.5	32	16	63	HEX46	HEX41	3/4	G25
SWMC06-06G	3/4	27.7	13	16	31.5	37	16	69	HEX55	HEX46	3/4	G30
SWMC06-08G	3/4	27.7	13	20	38	37	18	73	HEX55	HEX46	1	G30
SWMC08-08G	1	34.5	13	20	38	44	18	78	HEX60	HEX55	1	G35
SWMC08-10G	1	34.5	13	25	48.5	44	20	80	HEX60	HEX55	1 1/4	G35
SWMC10-10G	1 1/4	43.2	13	25	48.5	54	20	84	OCT75	OCT65	1 1/4	G45
SWMC10-12G	1 1/4	43.2	13	32	53.5	54	22	86	OCT75	OCT65	1 1/2	G45
SWMC12-12G	1 1/2	49.1	13	32	53.5	63	22	98	OCT85	OCT74	1 1/2	G50
SWMC12-16G	1 1/2	49.1	13	38	66	63	24	99	OCT85	OCT74	2	G50
SWMC16-16G	2	61.1	16	38	66	76	24	103	OCT94	OCT86	2	G65

All dimensions are in millimeters. Dimensions are for reference only, subject to change.

SHINILACE PIPE TYPE

SLD

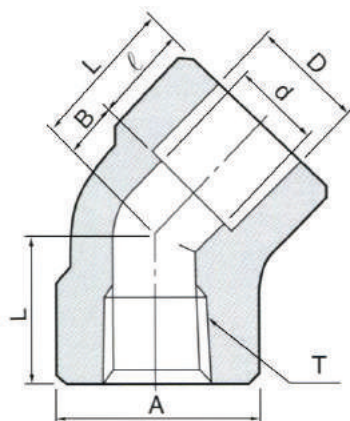
90° Special Elbow



Designations	Nom. Size	D	/	d	A	B	L	T R(PT)
SLD-02WR	1/4	14.3	11.4	9.4	23	11.1	22.5	1/4
SLD-03WR	3/8	17.8	11.5	12.7	26	13.5	25	3/8
SLD-04WR	1/2	22.2	13.1	16.1	33	15.9	29	1/2
SLD-06WR	3/4	27.7	14.9	21.4	39	19.1	34	3/4
SLD-08WR	1	34.5	15.8	27.2	47	22.2	38	1
SLD-10WR	1 1/4	43.2	18.0	35.5	57	27.0	45	1 1/4
SLD-12WR	1 1/2	49.1	19.2	41.2	63	31.8	51	1 1/2
SLD-16WR	2	61.1	21.9	52.7	76	38.1	60	2

SLE

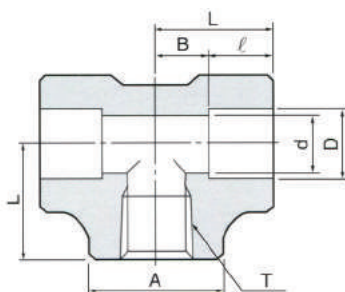
45° Special Elbow



Designations	Nom. Size	D	/	d	A	B	L	T R(PT)
SLE-02WR	1/4	14.3	12.1	9.4	23	7.9	20	1/4
SLE-03WR	3/8	17.8	13.1	12.7	26	7.9	21	3/8
SLE-04WR	1/2	22.2	12.9	16.1	33	11.1	24	1/2
SLE-06WR	3/4	27.7	14.8	21.4	39	12.7	27.5	3/4
SLE-08WR	1	34.5	15.7	27.2	47	14.3	30	1
SLE-10WR	1 1/4	43.2	18.5	35.5	57	17.5	36	1 1/4
SLE-12WR	1 1/2	49.1	19.4	41.2	63	20.6	40	1 1/2
SLE-16WR	2	61.1	21.6	52.7	76	25.4	47	2

STB

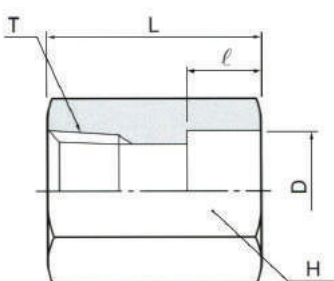
Special Tee



Designations	Nom. Size	D	/	d	A	B	L	T R(PT)
STB-02WR	1/4	14.3	11.4	9.4	23	23	22.5	1/4
STB-03WR	3/8	17.8	11.5	12.7	26	26	25	3/8
STB-04WR	1/2	22.2	13.1	16.1	33	33	29	1/2
STB-06WR	3/4	27.7	14.9	21.4	39	39	34	3/4
STB-08WR	1	34.5	15.8	27.2	47	47	38	1
STB-10WR	1 1/4	43.2	18.0	35.5	57	57	45	1 1/4
STB-12WR	1 1/2	49.1	19.2	41.2	63	63	51	1 1/2
STB-16WR	2	61.1	21.6	52.7	76	72	60	2

SSB

Special Socket



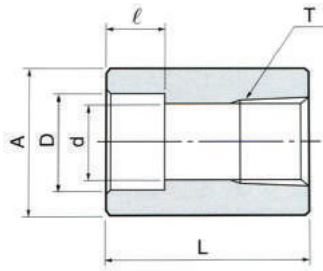
Designations	Nom. Size	D	/	L	H	T R(PT)
SSB-02WR	1/4	14.3	10	30	HEX22	1/4
SSB-03WR	3/8	17.8	10	30	HEX27	3/8
SSB-04WR	1/2	22.2	10	40	HEX32	1/2
SSB-06WR	3/4	27.7	13	43	HEX41	3/4
SSB-08WR	1	34.5	13	50	HEX46	1
SSB-10WR	1 1/4	43.2	13	55	HEX55	1 1/4
SSB-12WR	1 1/2	49.1	13	55	HEX65	1 1/2
SSB-16WR	2	61.1	16	64	HEX75	2

All dimensions are in millimeters. Dimensions are for reference only, subject to change.

SHINILACE PIPE TYPE

SSC

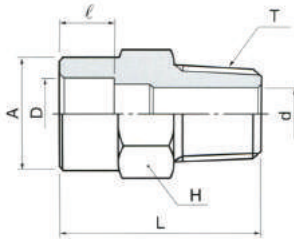
Special Coupling



Designations	Nom. Size	D	l	d	A	L	T R(PT)
SSC-02WR	1/4	14.3	10	9.4	22	30	1/4
SSC-03WR	3/8	17.8	10	12.7	25	30	3/8
SSC-04WR	1/2	22.2	10	16.1	32	40	1/2
SSC-06WR	3/4	27.2	13	21.4	38	43	3/4
SSC-08WR	1	34.5	13	27.2	45	50	1
SSC-10WR	1 1/4	43.2	13	35.5	55	55	1 1/4
SSC-12WR	1 1/2	49.1	13	41.2	63	55	1 1/2
SSC-16WR	2	61.1	16	52.7	75	64	2

SSD

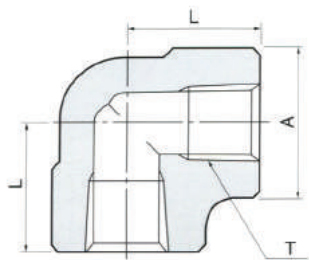
S/W Male Adaptor



Designations	Nom. Size	D	l	d	A	L	H	T R(PT)
SSD-02WR	1/4	14.3	10	7	22	30	22	1/4
SSD-03WR	3/8	17.8	10	9	27	33	27	3/8
SSD-04WR	1/2	22.2	10	12	32	35	32	1/2
SSD-06WR	3/4	27.7	13	16	38	40	41	3/4
SSD-08WR	1	34.5	13	20	44	43	46	1
SSD-10WR	1 1/4	43.2	13	25	54	45	55	1 1/4
SSD-12WR	1 1/2	49.1	13	32	63	47	65	1 1/2
SSD-16WR	2	61.1	16	38	74	56	75	2

SLA

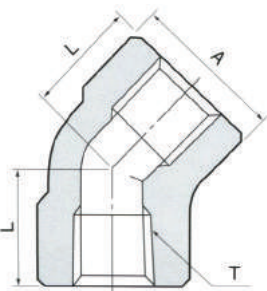
90° Elbow



Designations	T R(PT)	A	L
SLA-01R	1/8	23	22.5
SLA-02R	1/4	23	22.5
SLA-03R	3/8	26	25
SLA-04R	1/2	33	29
SLA-06R	3/4	39	34
SLA-08R	1	47	38
SLA-10R	1 1/4	57	45
SLA-12R	1 1/2	63	51
SLA-16R	2	76	60

SLB

45° Elbow

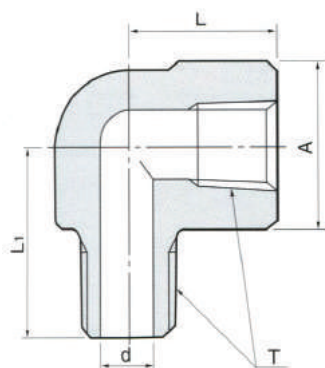


Designations	T R(PT)	A	L
SLB-01R	1/8	23	20
SLB-02R	1/4	23	20
SLB-03R	3/8	26	21
SLB-04R	1/2	33	24
SLB-06R	3/4	39	27.5
SLB-08R	1	47	30
SLB-10R	1 1/4	57	36
SLB-12R	1 1/2	63	40
SLB-16R	2	76	47

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SLC

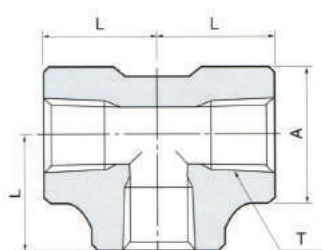
Street Elbow



Designations	T R(PT)	d	A	L	L ₁
SLC-02R	1/4	7	19	24	27
SLC-03R	3/8	9	24	24	29
SLC-04R	1/2	12	30	27	36
SLC-06R	3/4	16	36	32	42
SLC-08R	1	20	46	45	57
SLC-10R	1 1/4	28	55	55	62
SLC-12R	1 1/2	32	60	60	68
SLC-16R	2	40	76	46	72

STA

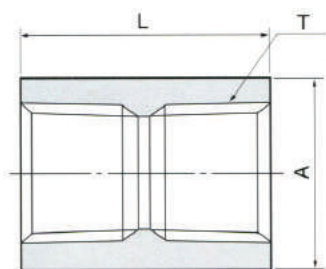
Tee



Designations	T R(PT)	A	L
STA-01R	1/8	23	22.5
STA-02R	1/4	23	22.5
STA-03R	3/8	26	25
STA-04R	1/2	33	29
STA-06R	3/4	39	34
STA-08R	1	47	38
STA-10R	1 1/4	57	45
STA-12R	1 1/2	63	51
STA-16R	2	76	60

SFC

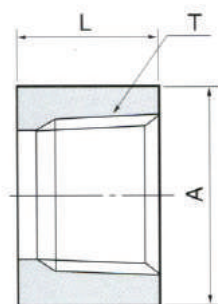
Full Coupling



Designations	T R(PT)	A	L
SFC-01R	1/8	16	31.8
SFC-02R	1/4	20	35.1
SFC-03R	3/8	24	38.1
SFC-04R	1/2	30	47.8
SFC-06R	3/4	36	50.8
SFC-08R	1	46	60.5
SFC-10R	1 1/4	60	66.5
SFC-12R	1 1/2	65	79.3
SFC-16R	2	80	85.9

SHC

Half Coupling



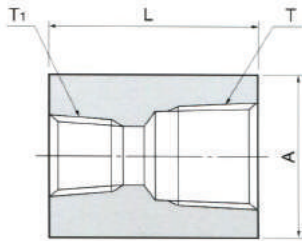
Designations	T R(PT)	A	L
SHC-01R	1/8	16	15.9
SHC-02R	1/4	20	17.6
SHC-03R	3/8	24	19.1
SHC-04R	1/2	30	23.9
SHC-06R	3/4	36	25.4
SHC-08R	1	46	30.3
SHC-10R	1 1/4	60	33.3
SHC-12R	1 1/2	65	39.7
SHC-16R	2	80	43.0

All dimensions are in millimeters. Dimensions are for reference only, subject to change.

SHINILACE PIPE TYPE

SRC

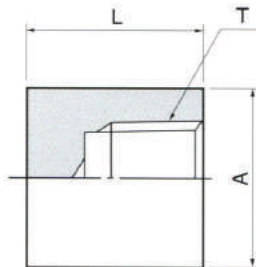
Reducing Coupling



Designations	T R(PT)	X	T ₁ R(PT)	A	L
SRC02-01R	1/4	X	1/8	20	35.1
SRC03-02R	3/8	X	1/4	24	38.1
SRC04-02R	1/2	X	1/4	30	47.8
SRC04-03R	1/2	X	3/8	30	47.8
SRC06-02R	3/4	X	1/4	36	50.8
SRC06-03R	3/4	X	3/8	36	50.8
SRC06-04R	3/4	X	1/2	36	50.8
SRC08-03R	1	X	3/8	45	60.5
SRC08-04R	1	X	1/2	45	60.5
SRC08-06R	1	X	3/4	45	60.5
SRC10-04R	1 1/4	X	1/2	60	66.5
SRC10-06R	1 1/4	X	3/4	60	66.5
SRC10-08R	1 1/4	X	1	60	66.5
SRC12-06R	1 1/2	X	3/4	65	79.3
SRC12-08R	1 1/2	X	1	65	79.3
SRC12-12R	1 1/2	X	1 1/4	65	79.3
SRC16-08R	2	X	1	80	85.9
SRC16-10R	2	X	1 1/4	80	85.9

SCA

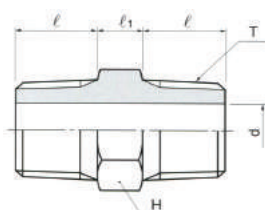
Cap



Designations	T R(PT)	A	L
SCA-01R	1/8	16	19.1
SCA-02R	1/4	20	25.4
SCA-03R	3/8	24	25.4
SCA-04R	1/2	30	31.8
SCA-06R	3/4	36	36.6
SCA-08R	1	45	41.1
SCA-10R	1 1/4	60	44.5
SCA-12R	1 1/2	65	47.8
SCA-16R	2	80	60.5

SNA

Hex Nipple

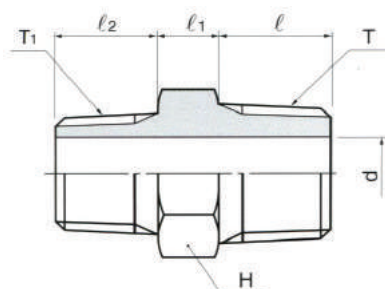


Designations	T R(PT)	d	H	l	l ₁
SNA-01R	1/8	4	HEX12	10	6
SNA-02R	1/4	7	HEX14	14	8
SNA-03R	3/8	9	HEX17	16	8
SNA-04R	1/2	12	HEX22	18	9
SNA-06R	3/4	16	HEX27	20	10
SNA-08R	1	20	HEX36	22	11
SNA-10R	1 1/4	28	HEX46	24	12
SNA-12R	1 1/2	32	HEX50	26	14
SNA-16R	2	40	HEX65	30	16

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SNR

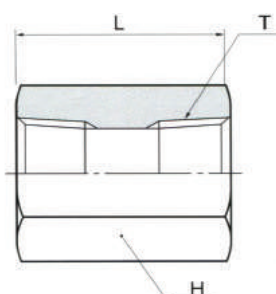
Reducing Nipple



Designations	T R(PT)	X	T ₁ R(PT)	d	H	l	l ₁	l ₂
SNR02-01R	1/4	X	1/8	4	HEX14	14	8	10
SNR03-02R	3/8	X	1/4	7	HEX17	16	8	14
SNR04-02R	1/2	X	1/4	7	HEX22	18	9	14
SNR04-03R	1/2	X	3/8	9	HEX22	18	9	16
SNR06-02R	3/4	X	1/4	7	HEX27	20	10	14
SNR06-03R	3/4	X	3/8	9	HEX27	20	10	16
SNR06-04R	3/4	X	1/2	12	HEX27	20	10	18
SNR08-03R	1	X	3/8	9	HEX36	22	11	15
SNR08-04R	1	X	1/2	12	HEX36	22	11	18
SNR08-06R	1	X	3/4	16	HEX36	22	11	20
SNR10-04R	1 1/4	X	1/2	12	HEX46	24	12	18
SNR10-06R	1 1/4	X	3/4	16	HEX46	24	12	20
SNR10-08R	1 1/4	X	1	20	HEX46	24	12	22
SNR12-06R	1 1/2	X	3/4	16	HEX50	26	14	20
SNR12-08R	1 1/2	X	1	20	HEX50	26	14	22
SNR12-10R	1 1/4	X	1 1/4	28	HEX50	26	14	24
SNR16-08R	2	X	1	20	HEX65	30	16	22
SNR16-10R	2	X	1 1/4	28	HEX65	30	16	24
SNR16-12R	2	X	1/2	32	HEX65	30	16	26

SSA

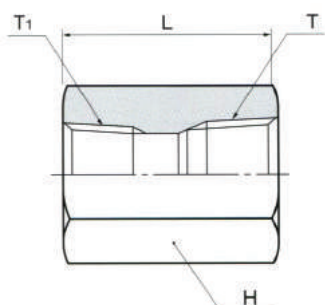
Hex Socket



Designations	T R(PT)	H	L
SSA-01R	1/8	HEX17	30
SSA-02R	1/4	HEX22	30
SSA-03R	3/8	HEX24	30
SSA-04R	1/2	HEX30	40
SSA-06R	3/4	HEX36	42
SSA-08R	1	HEX46	50
SSA-10R	1 1/4	HEX55	55
SSA-12R	1 1/2	HEX65	55
SSA-16R	2	HEX75	64

SSR

Reducing Socket



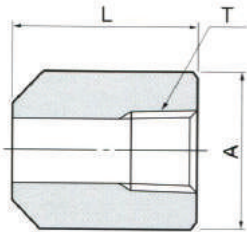
Designations	T R(PT)	X	T ₁ R(PT)	H	L
SSR02-01R	1/4	X	1/8	HEX22	30
SSR03-02R	3/8	X	1/4	HEX24	30
SSR04-02R	1/2	X	1/4	HEX30	40
SSR04-03R	1/2	X	3/8	HEX30	40
SSR06-02R	3/4	X	1/4	HEX36	42
SSR06-03R	3/4	X	3/8	HEX36	42
SSR06-04R	3/4	X	1/2	HEX36	42
SSR08-03R	1	X	3/4	HEX46	50
SSR08-04R	1	X	1/2	HEX46	50
SSR08-06R	1	X	3/4	HEX46	50
SSR10-04R	1 1/4	X	1/2	HEX55	55
SSR10-06R	1 1/4	X	3/4	HEX55	55
SSR10-08R	1 1/4	X	1	HEX55	55
SSR12-06R	1 1/2	X	3/4	HEX60	55
SSR12-08R	1 1/2	X	1	HEX60	55
SSR12-10R	1 1/2	X	1 1/4	HEX60	55
SSR16-08R	2	X	1	HEX75	64
SSR16-10R	2	X	1 1/4	HEX75	64
SSR16-12R	2	X	1 1/2	HEX75	64

All dimensions are in millimeters. Dimensions are for reference only, subject to change.

SHINILACE PIPE TYPE

SBA

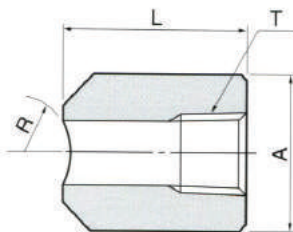
Boss Type A



Designations	T R(PT)	A	L
SBA-02R	1/4	22	40
SBA-03R	3/8	25	50
SBA-04R	1/2	32	50
SBA-06R	3/4	38	50
SBA-08R	1	45	50
SBA-10R	1 1/4	55	50
SBA-12R	1 1/2	65	50
SBA-16R	2	75	60

SBR

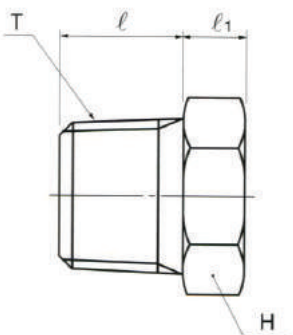
Boss Type R



Designations	T R(PT)	A	L	R
SBR-02R	1/4	22	40	25
SBR-03R	3/8	25	50	25
SBR-04R	1/2	32	50	30
SBR-06R	3/4	38	50	30
SBR-08R	1	45	50	40
SBR-10R	1 1/4	55	50	45
SBR-12R	1 1/2	65	50	55
SBR-16R	2	75	60	60

SPB

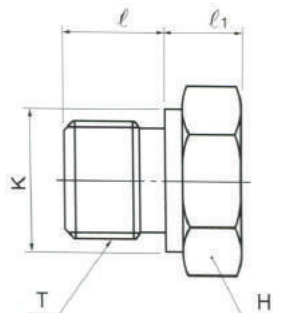
Hex Head Plug



Designations	T R(PT)	H	l	l ₁
SPB-02R	1/4	HEX17	14	8
SPB-03R	3/8	HEX19	15	8
SPB-04R	1/2	HEX22	19	9
SPB-06R	3/4	HEX27	21	10
SPB-08R	1	HEX36	24	11
SPB-10R	1 1/4	HEX46	27	12
SPB-12R	1 1/2	HEX50	27	14
SPB-16R	2	HEX65	31	16

SPC

Hex Head Plug

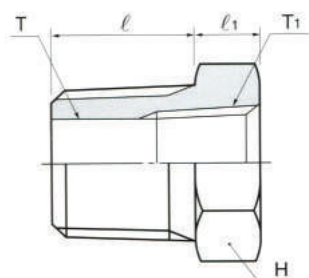


Designations	T R(PT)	l	l ₁	K	H	O-ring
SPC-01G	1/8	8	7	14	HEX14	P 8
SPC-02G	1/4	12	9	19	HEX19	P11
SPC-03G	3/8	12	10	22	HEX22	P14
SPC-04G	1/2	14	13	27	HEX27	P18
SPC-06G	3/4	16	16	36	HEX36	P24
SPC-08G	1	18	18	41	HEX41	P29
SPC-10G	1 1/4	20	21	50	HEX46	P38
SPC-12G	1 1/2	21	21	55	HEX50	P44
SPC-16G	2	25	23	75	HEX65	P56

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SHB

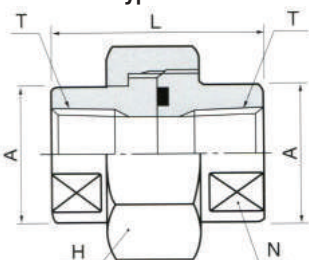
Hex Bushing



Designations	T R(PT)	X	T ₁ R(PT)	H	l	l ₁
SHB02-01R	1/4	X	1/8	HEX14	14	8
SHB03-02R	3/8	X	1/4	HEX17	15	8
SHB04-02R	1/2	X	1/4	HEX22	19	9
SHB04-03R	1/2	X	3/8	HEX22	19	9
SHB06-02R	3/4	X	1/4	HEX27	21	10
SHB06-03R	3/4	X	3/8	HEX27	21	10
SHB06-04R	3/4	X	1/2	HEX27	21	10
SHB08-02R	1	X	1/4	HEX36	24	11
SHB08-03R	1	X	3/8	HEX36	24	11
SHB08-04R	1	X	1/2	HEX36	24	11
SHB08-06R	1	X	3/4	HEX36	24	11
SHB10-04R	1 1/4	X	1/2	HEX46	27	12
SHB10-06R	1 1/4	X	3/4	HEX46	27	12
SHB10-08R	1 1/4	X	1	HEX46	27	12
SHB12-04R	1 1/2	X	1/2	HEX50	27	14
SHB12-06R	1 1/2	X	3/4	HEX50	27	14
SHB12-08R	1 1/2	X	1	HEX50	27	14
SHB12-10R	1 1/2	X	1 1/4	HEX50	27	14
SHB16-06R	2	X	3/4	HEX65	31	16
SHB16-08R	2	X	1	HEX65	31	16
SHB16-10R	2	X	1 1/4	HEX65	31	16
SHB16-12R	2	X	1 1/2	HEX65	31	16

SUA

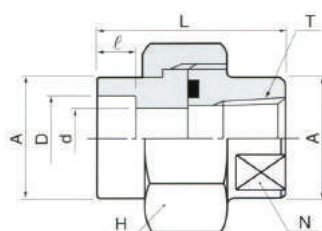
Union Type A



Designations	T R(PT)	A	N	L	H	O-ring
SUA-02R	1/4	22	19	38	HEX36	P18
SUA-03R	3/8	27	24	38	HEX41	P20
SUA-04R	1/2	32	29	44	HEX46	G25
SUA-06R	3/4	37	34	50	HEX55	G30
SUA-08R	1	44	41	56	HEX60	G35
SUA-10R	1 1/4	54	51	60	OCT75	G45
SUA-12R	1 1/2	63	60	72	OCT85	G50
SUA-16R	2	76	71	72	OCT94	G65

SUB

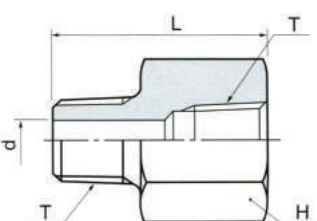
Union Type B



Designations	Nom. Size	D	l	d	A	L	N	H	T R(PT)	O-ring
SUB-02WR	1/4	14.3	10	9.4	22	38	19	HEX36	1/4	P18
SUB-03WR	3/8	17.8	10	12.7	27	38	24	HEX41	3/8	P20
SUB-04WR	1/2	22.2	10	16.1	32	44	29	HEX46	1/2	G25
SUB-06WR	3/4	27.7	13	21.4	37	50	34	HEX55	3/4	G30
SUB-08WR	1	34.5	13	27.2	44	56	41	HEX60	1	G35
SUB-10WR	1 1/4	43.2	13	35.5	54	60	51	OCT75	1 1/4	G45
SUB-12WR	1 1/2	49.1	13	41.2	63	72	60	OCT85	1 1/2	G50
SUB-16WR	2	61.1	16	52.7	76	72	71	OCT94	2	G65

MFAA

Male/Female Adaptor Type A



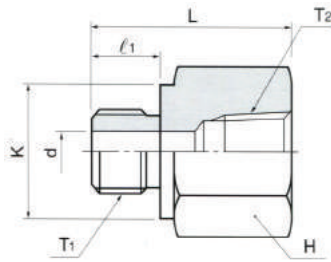
Designations	T R(PT)	d	L	H
MFAA-02R	1/4	17	33	HEX22
MFAA-03R	3/8	9	36	HEX24
MFAA-04R	1/2	12	45	HEX30
MFAA-06R	3/4	16	50	HEX36
MFAA-08R	1	20	58	HEX46
MFAA-10R	1 1/4	28	67	HEX55
MFAA-12R	1 1/2	32	69	HEX65
MFAA-16R	2	40	79	HEX75

All dimensions are in millimeters. Dimensions are for reference only, subject to change.

SHINILACE PIPE TYPE

MFAB

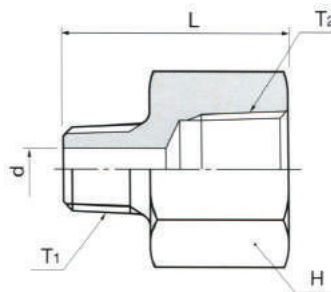
Male/Female Adaptor Type B



Designations	T ₁ G(PF)	T ₂ G(PF)	d	K	l ₁	L	H
MFAB-02GR	1/4	1/4	6	19	12	33	HEX22
MFAB-03GR	3/8	3/8	8	22	12	35	HEX24
MFAB-04GR	1/2	1/2	12	27	14	42	HEX30
MFAB-06GR	3/4	3/4	16	36	16	47	HEX36
MFAB-08GR	1	1	22	41	18	55	HEX46
MFAB-10GR	1 1/4	1 1/4	28	50	20	63	HEX55
MFAB-12GR	1 1/2	1 1/2	31	55	21	66	HEX65
MFAB-16GR	2	2	36	75	25	76	HEX75

MFAC

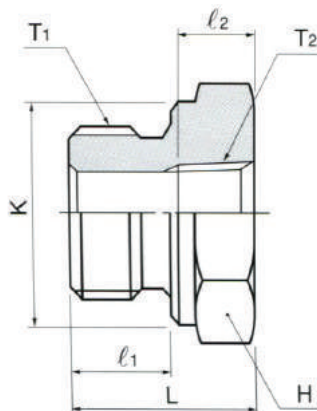
Male/Female Adaptor Type C



Designations	T ₁ R(PT)	X	T ₂ R(PT)	d	L	H
MFAC01-02R	1/8	X	1/4	4	30	HEX22
MFAC01-03R	1/8	X	3/8	4	31	HEX24
MFAC02-03R	1/4	X	3/8	7	35	HEX24
MFAC02-04R	1/4	X	1/2	7	39	HEX30
MFAC02-06R	1/4	X	3/4	7	42	HEX36
MFAC03-04R	3/8	X	1/2	9	41	HEX30
MFAC03-06R	3/8	X	3/4	9	44	HEX36
MFAC03-08R	3/8	X	1	9	47	HEX46
MFAC04-06R	1/2	X	3/4	12	48	HEX36
MFAC04-08R	1/2	X	1	12	52	HEX46
MFAC04-10R	1/2	X	1 1/4	12	56	HEX55
MFAC06-08R	3/4	X	1	16	55	HEX46
MFAC06-10R	3/4	X	1 1/4	16	59	HEX55
MFAC06-12R	3/4	X	1 1/2	16	60	HEX60
MFAC08-10R	1	X	1 1/4	20	64	HEX55
MFAC08-12R	1	X	1 1/2	20	64	HEX60
MFAC08-16R	1	X	2	20	69	HEX75
MFAC10-12R	1 1/4	X	1 1/2	28	69	HEX60
MFAC10-16R	1 1/4	X	2	28	73	HEX75
MFAC12-16R	1 1/2	X	2	32	75	HEX75

MFAD

Male/Female Adaptor Type D

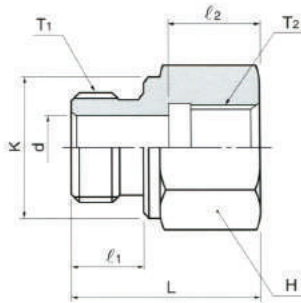


Designations	T ₁ G(PF)	X	T ₂ G(PF)	K	l ₁	l ₂	L	H
MFAD03-01G	3/8	X	1/8	22	12	8	22	HEX22
MFAD04-02G	1/2	X	1/4	26	14	12	24	HEX27
MFAD06-02G	3/4	X	1/4	32	16	12	26	HEX32
MFAD06-03G	3/4	X	3/8	32	16	12	26	HEX32
MFAD08-02G	1	X	1/4	39	18	12	29	HEX41
MFAD08-03G	1	X	3/8	39	18	12	29	HEX41
MFAD08-04G	1	X	1/2	39	18	14	29	HEX41
MFAD10-04G	1 1/4	X	1/2	49	20	14	32	HEX50
MFAD10-06G	1 1/4	X	3/4	49	20	16	32	HEX50
MFAD12-04G	1 1/2	X	1/2	55	22	14	36	HEX55
MFAD12-06G	1 1/2	X	3/4	55	22	16	36	HEX55
MFAD12-08G	1 1/2	X	1	55	22	18	36	HEX55

All dimensions are in millimeters. Dimensions are for reference only, subject to change.

MFAE

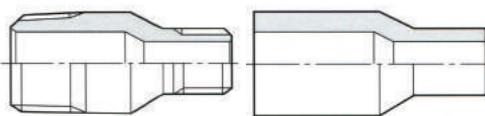
Male/Female Adaptor Type E



Designations	T ₁ G(PF)	X	T ₂ G(PF)	K	d	l ₁	l ₂	L	H
MFAE01-02G	1/8	X	1/4	14	4	8	17	31	HEX19
MFAE01-03G	1/8	X	3/8	14	4	8	17	32	HEX24
MFAE02-01G	1/4	X	1/8	18	5	12	12	28	HEX19
MFAE02-01G	1/4	X	3/8	18	6	12	17	36	HEX24
MFAE02-01G	1/4	X	1/2	18	6	12	20	40	HEX30
MFAE02-01G	1/4	X	3/4	18	6	12	22	43	HEX36
MFAE03-02G	3/8	X	1/4	22	8	12	17	36	HEX22
MFAE03-02G	3/8	X	1/2	22	8	12	20	41	HEX30
MFAE03-02G	3/8	X	3/4	22	8	12	22	44	HEX36
MFAE04-03G	1/2	X	3/8	26	12	14	17	36	HEX27
MFAE04-03G	1/2	X	3/4	26	12	14	22	46	HEX36
MFAE04-03G	1/2	X	1	26	12	14	24.5	49	HEX41
MFAE04-03G	1/2	X	1 1/4	26	10	14	26.5	53	HEX55
MFAE06-08G	3/4	X	1/2	32	16	16	20	41	HEX32
MFAE06-08G	3/4	X	1	32	16	16	24.5	51	HEX41
MFAE06-08G	3/4	X	1 1/4	32	16	16	26.5	56	HEX55
MFAE06-08G	3/4	X	1 1/2	32	16	16	28.5	57	HEX60
MFAE08-06G	1	X	3/4	39	18	18	22	47	HEX41
MFAE08-06G	1	X	1 1/4	39	18	18	26.5	57	HEX55
MFAE08-06G	1	X	1 1/2	39	18	18	28.5	59	HEX60
MFAE10-08G	1 1/4	X	1	49	20	20	24.5	52	HEX50
MFAE10-08G	1 1/4	X	1 1/2	49	20	20	28.5	60	HEX60
MFAE12-10G	1 1/2	X	1 1/4	55	22	22	26.5	58	HEX55

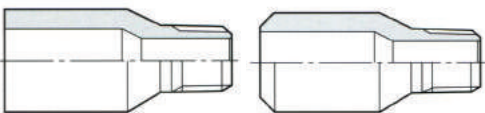
MSS-SP-95

Swaged Nipple



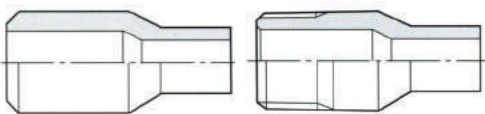
TBE

PBE



PLE / TSE

BLE / TSE



BLE / PSE

TLE / PSE

Large end Size	Small end Size	Length (mm)
1/2	3/8 - 1/8	70
3/4	1/2 - 1/8	76
1	3/4 - 1/8	89
1 1/4	1 - 1/8	102
1 1/2	1 1/4 - 1/8	114
2	1 1/2 - 1/8	165
2 1/2	2 - 1/8	178
3	2 1/2 - 1/8	203
3 1/2	3 - 1/8	203
4	3 1/2 - 1/8	229

TBE : Threaded both end

PBE : Plain both end

PLE / TSE : Plain large end - Threaded small end

BLE / TSE : Beveled large end - Threaded small end

BLE / PSE : Beveled large end - Plain small end

TLE / PSE : Threaded large end - Plain small end

All dimensions are in millimeters. Dimensions are for reference only, subject to change.

SHINILACE PIPE TYPE

CARBON STEEL PIPE

Nom. Size		O.D	Nominal Wall Thickness													
			Sch 40		Sch 60		Sch 80		Sch 100		Sch 120		Sch 140		Sch 160	
A	B		T	Weight kg/m	T	Weight kg/m	T	Weight kg/m	T	Weight kg/m	T	Weight kg/m	T	Weight kg/m	T	Weight kg/m
6	1/8	10.5	1.7	0.369	-	-	2.4	0.479	-	-	-	-	-	-	-	-
8	1/4	13.8	2.2	0.629	-	-	3.0	0.799	-	-	-	-	-	-	-	-
10	3/8	17.3	2.3	0.851	-	-	3.2	1.11	-	-	-	-	-	-	-	-
15	1/2	21.7	2.8	1.31	-	-	3.7	1.64	-	-	-	-	-	-	4.7	1.97
20	3/4	27.2	2.9	1.74	-	-	3.9	2.24	-	-	-	-	-	-	5.5	2.94
25	1	34.0	3.4	2.57	-	-	4.5	3.27	-	-	-	-	-	-	6.4	4.36
32	1 1/4	42.7	3.6	3.47	-	-	4.9	4.57	-	-	-	-	-	-	6.4	5.73
40	1 1/2	48.6	3.7	4.10	-	-	5.1	5.47	-	-	-	-	-	-	7.1	7.27
50	2	60.5	3.9	5.44	-	-	5.5	7.46	-	-	-	-	-	-	8.7	11.1
65	2 1/2	76.3	5.2	9.12	-	-	7.0	12.0	-	-	-	-	-	-	9.5	15.6
80	3	89.1	5.5	11.3	-	-	7.6	15.3	-	-	-	-	-	-	11.1	21.4
90	3 1/2	101.6	5.7	13.5	-	-	8.1	18.7	-	-	-	-	-	-	12.7	27.8
100	4	114.3	6.0	16.0	-	-	8.6	22.4	-	-	11.1	28.2	-	-	13.5	33.6
125	5	139.8	6.6	21.7	-	-	9.5	30.5	-	-	12.7	39.8	-	-	15.9	48.6
150	6	165.2	7.1	27.7	-	-	11.0	41.8	-	-	14.3	53.2	-	-	18.2	66.0
200	8	216.3	8.2	42.1	10.3	52.3	12.7	63.8	15.1	74.9	18.2	88.9	20.6	99.4	23.0	110
250	10	267.4	9.3	59.2	12.7	79.8	15.1	93.9	18.2	112	21.4	130	25.4	152	28.6	168
300	12	318.5	10.3	78.3	14.3	107	17.4	129	21.4	157	25.4	184	28.6	204	33.3	234

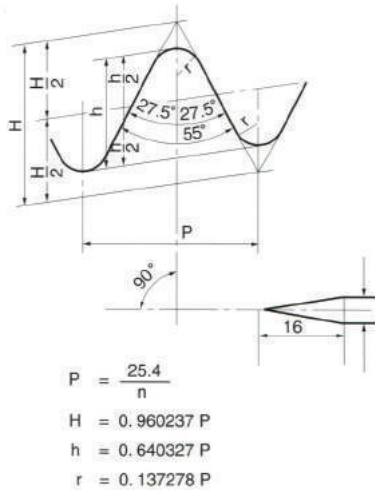
STAINLESS STEEL PIPE

Nom. Size		O.D	Nominal Wall Thickness																				
			Sch 5S			Sch 10S			Sch 20S			Sch 40			Sch 80			Sch 120			Sch 160		
A	B		T	Weight kg/m		T	Weight kg/m		T	Weight kg/m		T	Weight kg/m		T	Weight kg/m		T	Weight kg/m		T	Weight kg/m	
			304 TP	316 TP		304 TP	316 TP		304 TP	316 TP		304 TP	316 TP		304 TP	316 TP		304 TP	316 TP		304 TP	316 TP	
6	1/8	10.5	1.0	0.237	0.238	1.2	0.278	0.280	1.5	0.336	0.338	1.7	0.373	0.375	2.4	0.484	0.487	-	-	-	-	-	-
8	1/4	13.8	1.2	0.377	0.379	1.65	0.499	0.503	2.0	0.588	0.592	2.2	0.636	0.640	3.0	0.807	0.812	-	-	-	-	-	-
10	3/8	17.3	1.2	0.481	0.484	1.65	0.643	0.647	2.0	0.762	0.767	2.3	0.859	0.865	3.2	1.12	1.13	-	-	-	-	-	-
15	1/2	21.7	1.65	0.824	0.829	2.1	1.03	1.03	2.5	1.20	1.20	2.8	1.32	1.33	3.7	1.66	1.67	-	-	-	4.7	1.99	2.00
20	3/4	27.2	1.65	1.05	1.06	2.1	1.31	1.32	2.5	1.54	1.55	2.9	1.76	1.77	3.9	2.26	2.28	-	-	-	5.5	2.97	2.99
25	1	34.0	1.65	1.33	1.34	2.8	2.18	2.19	3.0	2.32	2.33	3.4	2.59	2.61	4.5	3.31	3.33	-	-	-	6.4	4.40	4.43
32	1 1/4	42.7	1.65	1.69	1.70	2.8	2.78	2.80	3.0	2.97	2.99	3.6	3.51	3.53	4.9	4.61	4.64	-	-	-	6.4	5.79	5.82
40	1 1/2	48.6	1.65	1.93	1.94	2.8	3.19	3.21	3.0	3.41	3.43	3.7	4.14	4.16	5.1	5.53	5.56	-	-	-	7.1	7.34	7.39
50	2	60.5	1.65	2.42	2.43	2.8	4.02	4.06	3.5	4.97	5.00	3.9	5.50	5.53	5.5	7.54	7.58	-	-	-	8.7	11.2	11.3
65	2 1/2	76.3	2.1	3.88	3.91	3.0	5.48	5.51	3.5	6.35	6.39	5.2	9.21	9.27	7.0	12.1	12.2	-	-	-	9.5	15.8	15.9
80	3	89.1	2.1	4.55	4.58	3.0	6.43	6.48	4.0	8.48	8.53	5.5	11.5	11.5	7.6	15.4	15.5	-	-	-	11.1	21.6	21.7
90	3 1/2	101.6	2.1	5.20	5.24	3.0	7.37	7.42	4.0	9.72	9.79	5.7	13.6	13.7	8.1	18.9	19.0	-	-	-	12.7	28.1	28.3
100	4	114.3	2.1	5.37	5.91	3.0	8.32	8.37	4.0	11.0	11.1	6.0	16.2	16.3	8.6	22.6	22.8	11.1	28.5	28.7	13.5	33.9	34.1
125	5	139.8	2.8	9.56	9.62	3.4	11.6	11.6	5.0	16.3	16.9	6.6	21.9	22.0	9.5	30.8	31.0	12.7	40.2	40.5	15.9	49.1	49.4
150	6	165.2	2.8	11.3	11.4	3.4	13.7	13.8	5.0	20.0	20.1	7.1	28.0	28.1	11.0	42.3	42.5	14.3	53.8	54.1	18.2	66.6	66.9
200	8	216.3	2.8	14.9	15.0	4.0	21.2	21.3	6.5	34.0	34.2	8.2	42.5	42.8	12.7	64.4	64.8	18.2	89.8	90.4	23.0	110.7	111.4
250	10	267.4	3.4	22.4	22.5	4.0	26.2	26.4	6.5	42.2	42.5	9.3	59.8	60.2	15.1	94.9	95.5	21.4	131.1	131.9	28.6	170.1	171.2
300	12	318.5	4.0	31.3	31.5	4.5	35.2	35.4	6.5	50.5	50.8	10.3	79.1	79.6	17.4	130.5	131.3	25.4	185.4	186.6	33.3	236.5	238.0

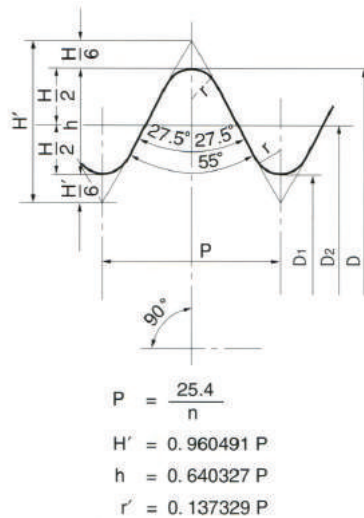
All dimensions are in millimeters. Dimensions are for reference only, subject to change.

TAPER PIPE THREADS JIS B0203 / B0202

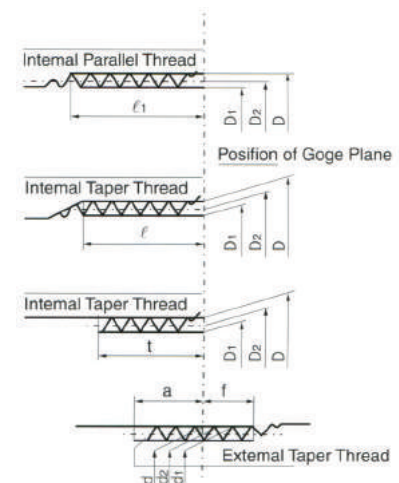
Basic Profile of External Taper Thread and Internal Taper Thread



Basic Profile of Internal Parallel Thread



Fit of External Taper Thread to Internal Taper Thread or Internal Parallel Thread



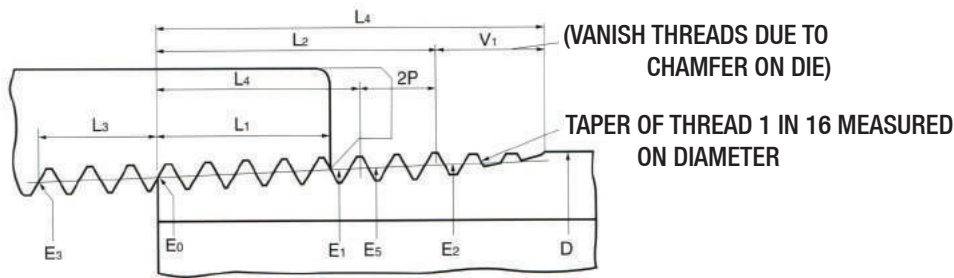
Unit: mm

Nominal Size	Number of Thread per inch	Screw Thread			Basic Diameter			Position of Basic Diameter			Toler- ances on Basic Diameters of Internal Parallel Thread	Fitting Allow- ance	Effective Thread Length (Min.)				Nominal Pipe Size (For Reference)	
		Pitch	Height of Thread	Round- ing	External Thread			External Thread		Internal Thread			External Thread	Internal Thread				
					Major Diameter d	Pitch Diameter d ₂	Minor Diameter d ₁	From the End of Pipe		The End of Pipe			When there is an Incomplete thread or More		When there is no Inc omplete thread			
																Internal Thread		
					Major Diameter	Pitch Diameter	Minor Diameter	Basic Length	Toler- ance Axially	Toler- ance Axially			Internal Taper Thread	Internal Parallel Thread	Internal Taper and Parallel Thread	Out side Diameter	Wall thick- ness	
n	p	h	r	D	D ₁	D ₂	a	±b	±c	±	f	l	l ₁	t				
R(PT) 1/8	28	0.9071	0.581	0.12	9.728	9.147	8.566	3.97	0.91	1.13	0.071	2.5	6.2	7.4	4.4	10.5	2.0	
R(PT) 1/4	19	1.3368	0.856	0.18	13.157	12.301	11.445	6.01	1.34	1.67	0.104	3.7	9.4	11.0	6.7	13.8	2.3	
R(PT) 3/8	19	1.3368	0.856	0.18	16.662	15.806	14.950	6.35	1.34	1.67	0.104	3.7	9.7	11.4	7.0	17.3	2.3	
R(PT) 1/2	14	1.8143	1.162	0.25	20.955	19.793	18.631	8.16	1.81	2.27	0.142	5.0	12.7	15.0	9.1	21.7	2.8	
R(PT) 3/4	14	1.8143	1.162	0.25	26.441	25.279	24.117	9.53	1.81	2.27	0.142	5.0	14.1	16.3	10.2	27.2	2.8	
R(PT) 1	11	2.3091	1.479	0.32	33.249	31.770	30.291	10.39	2.31	2.89	0.181	6.4	16.2	19.1	11.6	34.0	3.2	
R(PT)1 1/4	11	2.3091	1.479	0.32	41.910	40.431	38.952	12.70	2.31	2.89	0.181	6.4	18.5	21.4	13.4	42.7	3.5	
R(PT)1 1/2	11	2.3091	1.479	0.32	47.803	46.324	44.845	12.70	2.31	2.89	0.181	6.4	18.5	21.4	13.4	48.6	3.5	
R(PT) 2	11	2.3091	1.479	0.32	59.614	58.135	56.656	15.88	2.31	2.89	0.181	7.5	22.8	25.7	16.9	60.5	3.8	
R(PT)2 1/2	11	2.3091	1.479	0.32	75.184	73.705	72.226	17.46	3.46	3.46	0.216	9.2	26.7	30.1	18.6	76.3	4.2	
R(PT) 3	11	2.3091	1.479	0.32	87.884	86.405	84.926	20.64	3.46	3.46	0.216	9.2	29.8	33.3	21.1	89.1	4.2	
R(PT)3 1/2	11	2.3091	1.479	0.32	100.330	98.851	97.372	22.23	3.46	3.46	0.216	9.2	31.4	34.9	22.4	101.6	4.2	
R(PT) 4	11	2.3091	1.479	0.32	113.030	111.551	110.072	25.40	3.46	3.46	0.216	10.4	35.8	39.3	25.9	114.3	4.5	
R(PT) 5	11	2.3091	1.479	0.32	138.430	136.951	135.472	28.58	3.46	3.46	0.216	11.5	40.1	43.5	29.3	139.8	4.5	
R(PT) 6	11	2.3091	1.479	0.32	163.830	162.351	160.872	28.58	3.46	3.46	0.216	11.5	40.1	43.5	29.4	165.2	5.0	

SHINILACE PIPE TYPE

AMERICAN NATIONAL STANDARD TAPER PIPE THREADS

NPT (ANSI : B1 .20 .1)



Unit : inch

Nominal Pipe Size	Outside Dia of Pipe D	Threads per Inch n	Pitch of Thread P	Pitch Diameter at Beginning of External Thread E ₀	Handtight Engagement		Effective Thread External	
					Length L ₁	Dia E ₁	Length L ₂	Dia E ₂
1/16	0.3125	27	0.03704	0.27118	0.160	0.28118	0.2611	0.28750
1/8	0.405	27	0.03704	0.36351	0.1615	0.37360	0.2639	0.38000
1/4	0.540	18	0.05556	0.47739	0.2278	0.49163	0.4018	0.50250
3/8	0.675	18	0.05556	0.61201	0.240	0.62701	0.4078	0.63750
1/2	0.840	14	0.07143	0.75843	0.320	0.77843	0.5337	0.79179
3/4	1.050	14	0.07143	0.96768	0.339	0.98887	0.5457	1.00179
1	1.315	11 1/2	0.08696	1.21363	0.400	1.23863	0.6828	1.25630
1 1/4	1.660	11 1/2	0.08696	1.55713	0.420	1.58338	0.7068	1.60130
1 1/2	1.900	11 1/2	0.08696	1.79609	0.420	1.82234	0.7235	1.84130
2	2.375	11 1/2	0.08696	2.26902	0.436	2.29627	0.7565	2.31630
2 1/2	2.875	8	0.12500	2.71953	0.682	2.76216	1.1375	2.79062
3	3.500	8	0.12500	3.34062	0.766	3.38850	1.2000	3.41562
3 1/2	4.000	8	0.12500	3.83750	0.821	3.88881	1.2500	3.91562
4	4.500	8	0.12500	4.33438	0.844	4.38712	1.3000	4.41562
5	5.563	8	0.12500	5.39073	0.937	5.44929	1.4063	5.47862
6	6.625	8	0.12500	6.44609	0.958	6.50597	1.5125	6.54062

Nominal Pipe Size	Wrench Make-up Length for External Thread L ₂ -L ₁	Wrench Make-up Length for Internal Thread		Vanish Thread (3.47 Thds) V	Overall Length External Thread L ₄	Nominal Perfect External Threads		Height of Thread h	Basic Minor Dia. at Small End of Pipe K ₀
		Length L ₃	Dia E ₃			Length L ₅	Dia E ₅		
1/16	0.1011	0.1111	0.26424	0.1285	0.3896	0.1870	0.28287	0.02963	0.2416
1/8	0.1024	0.1111	0.35656	0.1285	0.3924	0.1898	0.37537	0.02963	0.3339
1/4	0.1740	0.1667	0.46697	0.1928	0.5946	0.2907	0.49556	0.04444	0.4329
3/8	0.1678	0.1667	0.60160	0.1928	0.6006	0.2967	0.63056	0.04444	0.5676
1/2	0.2137	0.2143	0.74504	0.2478	0.7815	0.3909	0.78286	0.05714	0.7013
3/4	0.2067	0.2143	0.95429	0.2478	0.7935	0.4029	0.99286	0.05714	0.9105
1	0.2828	0.2609	1.19733	0.3017	0.9845	0.5089	1.24543	0.06957	1.1441
1 1/4	0.2868	0.2609	1.54083	0.3017	1.0085	0.5329	1.59043	0.06957	1.4876
1 1/2	0.3035	0.2609	1.77978	0.3017	1.0252	0.5496	1.83043	0.06957	1.7265
2	0.3205	0.2609	2.25272	0.3017	1.0582	0.5826	2.30543	0.06957	2.1995
2 1/2	0.4555	0.2500	2.70391	0.4337	1.5712	0.8875	2.77500	0.10000	2.6195
3	0.4340	0.2500	3.32500	0.4337	1.6337	0.9500	3.40000	0.10000	3.2406
3 1/2	0.4290	0.2500	3.82188	0.4337	1.6837	1.0000	3.90000	0.10000	3.7375
4	0.4560	0.2500	4.31875	0.4337	1.7337	1.0500	4.40000	0.10000	4.2344
5	0.4693	0.2500	5.37511	0.4337	1.8400	1.1563	5.46300	0.10000	5.2907
6	0.5545	0.2500	6.43047	0.4337	1.9462	1.2625	6.52500	0.10000	6.3461

HOSE TYPE



SHINILACE HOSE TYPE

1. Applicable hoses

Our hose fittings were divided to two classes by their use;

- Low pressure hose fittings : For use general low pressure hoses made by rubber, vinylon, ect.
- High pressure hose fittings : For use high pressure flexible hoses inside wire included.

2. Nominal pressure

- Low pressure hose fittings : 10kgf/cm² (desingantion mark K01)
- High pressure hose fittings : 210kgf/cm² (desingantion mark K21)

3. Materials for fittings

- JIS G4303 SUS304, SUS316
- JIS G4301 SS400
- JIS G4051 S20C
- JIS G3201 SF440A
- JIS H3250 C3604, C3771

4. Threads

- Parallel pipe threads, JIS B0202 mark G, PF
- Taper pipe thread, JIS B0203, mark R, PT
- Metric fine screw threads, JIS B0207 mark M

5. Desingnation of hose size

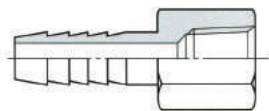
Hose size	1/4	3/8	1/2	5/8	3/4	1	1 1/4	1 1/2	2
Inner Dia.(mm)	6.4	9.5	12.7	15.9	19.0	25.4	31.8	38.1	50.8
Mark	H02	H03	H04	H05	H06	H08	H10	H12	H16

6. Flare angle

30° is our standard flare angle for hose fittings, if the other flare angle is required, then please note the angle clearly on purchase order.

HNF

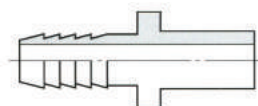
Female Nipple-10K



50

HNT

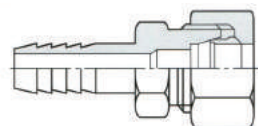
Tubed Nipple-10K



50

HNB

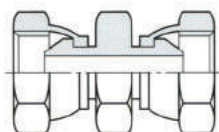
Bite Nipple-10K



50

HSU

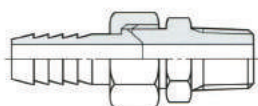
Swaged Union-210K



50

HUM

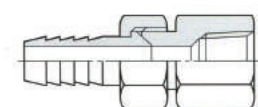
Male Union-10K



51

HUF

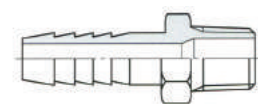
Female Union-10K



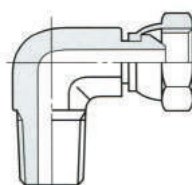
51

HNM

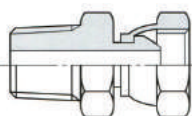
Male Nipple-10K



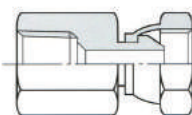
51

HSLMSwaged Male
Elbow-210K

52

HSCMSwaged Male
Connector-210K

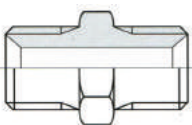
52

HSCFSwaged Female
Connector-210K

52

HHNA

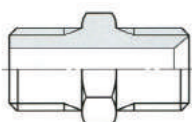
Hex Nipple(A)-210K



52

HHNB

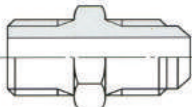
Hex Nipple(B)-210K



53

HHNC

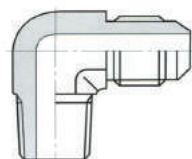
Hex Nipple(C)-210K



53

HLM

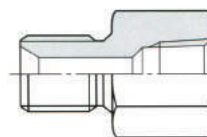
Male Elbow-210K



53

HAF

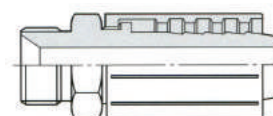
Female Adaptor-210K



53

HN

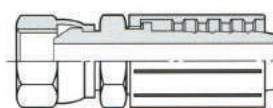
Nipple-210K



54

HSNM

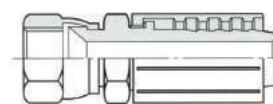
Swaged Nipple(M)-210K



54

HSNF

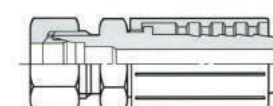
Swaged Nipple(F)-210K



54

HNB

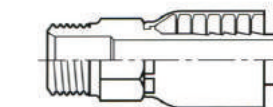
Bite Nipple-210K



54

HN143

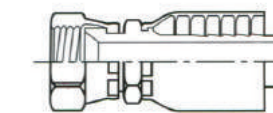
Swaged Nipple



55

HSNF643

Nipple

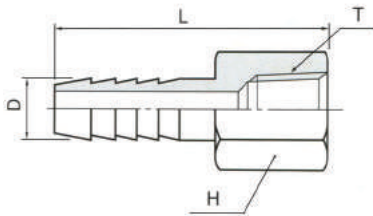


55

SHINILACE HOSE TYPE

HNF

Female Nipple-10K



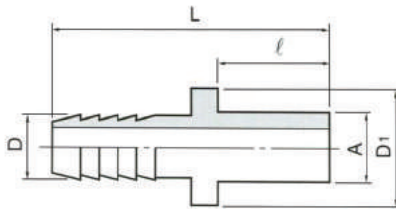
Unit:mm

Designations	D(Hose I.D.)		T (PT)	H	L
	inch	mm			
HNF-K01-H02R02	1/4	6.4	1/4	19	33
HNF-K01-H03R02	3/8	9.5	1/4	19	39
HNF-K01-H03R03	3/8	9.5	3/8	22	41
HNF-K01-H04R03	1/2	12.7	3/8	22	47
HNF-K01-H04R04	1/2	12.7	1/2	27	51
HNF-K01-H05R04	5/8	15.8	1/2	27	51
HNF-K01-H05R06	5/8	15.8	3/4	36	53
HNF-K01-H06R04	3/4	19.0	1/2	27	55
HNF-K01-H06R06	3/4	19.0	3/4	36	57
HNF-K01-H08R06	1	25.4	3/4	36	67
HNF-K01-H08R08	1	25.4	1	41	70
HNF-K01-H10R10	1 1/4	31.8	1 1/4	50	80
HNF-K01-H12R12	1 1/2	38.1	1 1/2	60	89
HNF-K01-H16R16	2	50.8	2	70	97

Unit:mm

HNT

Tubed Nipple-10K

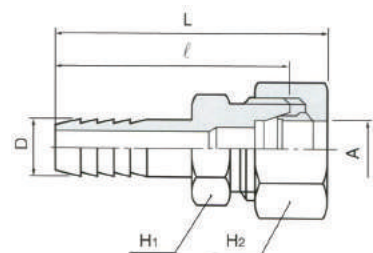


Designations	D(Hose I.D.)		A	D ₁	l	L
	inch	mm				
HNT-K01-H02	1/4	6.4	6	10	20	37
HNT-K01-H03	3/8	9.5	10	15	21	44
HNT-K01-H04	1/2	12.7	12	17	22	51
HNT-K01-H05	5/8	15.8	15	20	24	53
HNT-K01-H06	3/4	19.0	18	25	25	58
HNT-K01-H08	1	25.4	25	32	28	72
HNT-K01-H10	1 1/4	31.8	32	40	30	80
HNT-K01-H12	1 1/2	38.1	38	45	36	94
HNT-K01-H16	2	50.8	50	60	37	97

Unit:mm

HNB

Bite Nipple-10K

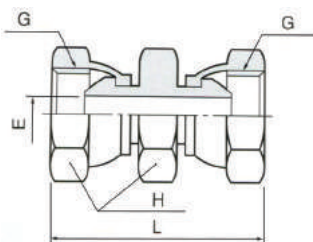


Designations	D(Hose I.D.)		Tube O.D A	H ₁	H ₂	l	About L
	inch	mm					
HNB-K01-H0208	1/4	6.4	8	17	17	33	44
HNB-K01-H0310	3/8	9.5	10	17	19	39	50
HNB-K01-H0312	3/8	9.5	12	19	22	39	50
HNB-K01-H0415	1/2	12.7	15	22	27	48	60
HNB-K01-H0416	1/2	12.7	16	27	30	48	60
HNB-K01-H1518	5/8	15.8	18	27	32	48	60
HNB-K01-H0520	5/8	15.8	20	30	36	49	61
HNB-K01-H0622	3/4	19.0	22	32	36	54	67
HNB-K01-H0625	3/4	19.0	25	36	41	55	68
HNB-K01-H0828	1	25.4	28	41	46	67	81
HNB-K01-H0830	1	25.4	30	41	46	67	81
HNB-K01-H1032	1 1/4	31.8	32	46	50	75	89
HNB-K01-H1035	1 1/4	31.8	35	46	55	75	83
HNB-K01-H1238	1 1/2	38.1	38	50	60	85	104
HNB-K01-H1240	1 1/2	38.1	40	55	60	86	105
HNB-K01-H1242	1 1/2	38.1	42	55	60	89	110
HNB-K01-H1650	2	50.8	50	65	74	92	114

Unit:mm

HSU

Swaged Union-210K

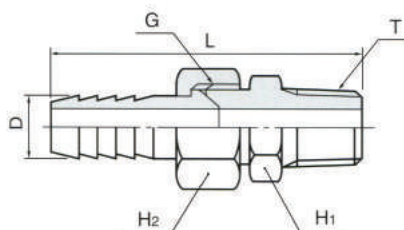


Designations	G (PF)	E	H	L
HSU-K21-G02	1/4	4	19	47
HSU-K21-G03	3/8	7	22	56
HSU-K21-G04	1/2	10	27	60
HSU-K21-G06	3/4	14	36	70
HSU-K21-G08	1	20	41	76
HSU-K21-G10	1 1/4	25	50	82
HSU-K21-G12	1 1/2	30	60	83
HSU-K21-G16	2	40	70	102

SHINILACE HOSE TYPE

HUM

Male Union-10K

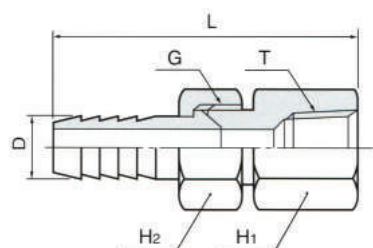


Unit: mm

Designations	D(Hose I.D.)		T	G	H ₁	H ₂	L
	inch	mm	(PT)	(PF)			
HUM-K01-H02R02	1/4	6.4	1/4	1/8	14	11	46
HUM-K01-H03R02	3/8	9.5	1/4	3/8	14	19	48
HUM-K01-H03R03	3/8	9.5	3/8	3/8	19	19	51
HUM-K01-H04R03	1/2	12.7	3/8	1/2	19	25	55
HUM-K01-H04R04	1/2	12.7	1/2	1/2	22	25	58
HUM-K01-H05R04	5/8	15.8	1/2	1/2	22	25	58
HUM-K01-H05R06	5/8	15.8	3/4	1/2	27	25	60
HUM-K01-H06R04	3/4	19.0	1/2	3/4	22	30	58
HUM-K01-H06R06	3/4	19.0	3/4	3/4	27	30	60
HUM-K01-H08R06	1	25.4	3/4	1	27	41	62
HUM-K01-H08R08	1 1/4	25.4	1	1	36	41	66
HUM-K01-H10R10	1 1/4	31.8	1 1/4	1 1/4	46	50	75
HUM-K01-H12R12	1 1/2	38.1	1 1/2	1 1/2	50	60	82
HUM-K01-H16R16	2	50.8	2	2	65	70	91

HUF

Female Union-10K

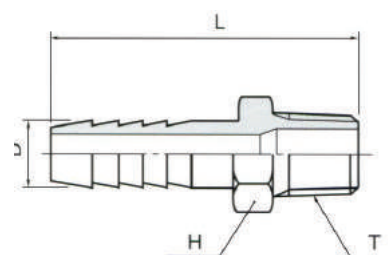


Unit: mm

Designations	D(Hose I.D.)		T	G	H ₁	H ₂	L
	inch	mm	(PT)	(PF)			
HUF-K01-H02R02	1/4	6.4	1/4	1/8	19	14	51
HUF-K01-H03R02	3/8	9.5	1/4	3/8	19	19	53
HUF-K01-H03R03	3/8	9.5	3/8	3/8	22	19	57
HUF-K01-H04R03	1/2	12.7	3/8	1/2	22	24	60
HUF-K01-H04R04	1/2	12.7	1/2	1/2	27	24	65
HUF-K01-H05R04	5/8	15.8	1/2	1/2	27	24	65
HUF-K01-H05R06	5/8	15.8	3/4	1/2	36	24	67
HUF-K01-H06R04	3/4	19.0	1/2	3/4	27	30	65
HUF-K01-H06R06	3/4	19.0	3/4	3/4	36	30	67
HUF-K01-H08R06	1	25.4	3/4	1	36	41	69
HUF-K01-H08R08	1	25.4	1	1	41	41	74
HUF-K01-H10R10	1 1/4	31.8	1 1/4	1	50	50	85
HUF-K01-H12R12	1 1/2	38.1	1 1/2	1 1/2	60	60	92
HUF-K01-H16R16	2	50.8	2	2	70	70	103

HNM

Male Nipple-10K



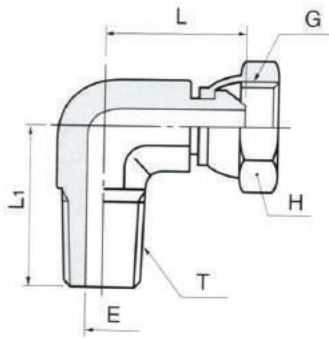
Unit: mm

Designations	D(Hose I.D.)		T	H	L
	inch	mm	(PT)		
HNM-K01-H02R02	1/4	6.4	1/4	14	34
HNM-K01-H02R03	1/4	6.4	3/8	19	37
HNM-K01-H03R02	3/8	9.5	1/4	14	40
HNM-K01-H03R03	3/8	9.5	3/8	19	43
HNM-K01-H04R02	1/2	12.7	1/4	14	46
HNM-K01-H04R03	1/2	12.7	3/8	19	49
HNM-K01-H04R04	1/2	12.7	1/2	22	52
HNM-K01-H05R03	5/8	15.8	3/8	19	49
HNM-K01-H05R04	5/8	15.8	1/2	22	52
HNM-K01-H05R06	5/8	15.8	3/4	27	54
HNM-K01-H06R04	3/4	19.0	1/2	22	56
HNM-K01-H06R06	3/4	19.0	3/4	27	58
HNM-K01-H06R08	3/4	19.0	1	36	62
HNM-K01-H08R06	1	25.4	3/4	27	68
HNM-K01-H08R08	1	25.4	1	36	72
HNM-K01-H10R08	1 1/4	31.8	1	36	78
HNM-K01-H10R10	1 1/4	31.8	1 1/4	46	82
HNM-K01-H12R10	1 1/2	38.1	1 1/4	46	89
HNM-K01-H12R12	1 1/2	38.1	1 1/2	50	92
HNM-K01-H16R12	2	50.8	1 1/2	55	95
HNM-K01-H16R16	2	50.8	2	65	100

SHINILACE HOSE TYPE

HSLM

Swaged Male Elbow-20K

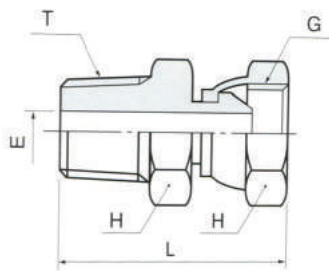


Unit:mm

Designations	G (PF)	T (PT)	E	H	L	L ₁
HSLM-K21-GR02	1/4	1/4	4	19	20	25
HSLM-K21-GR03	3/8	3/8	7	22	23	31
HSLM-K21-GR04	1/2	1/2	10	27	25	37
HSLM-K21-GR06	3/4	3/4	14	36	31	45
HSLM-K21-GR08	1	1	25	41	34	54
HSLM-K21-GR10	1 1/4	1 1/4	25	50	40	58
HSLM-K21-GR12	1 1/2	1 1/2	30	60	45	64
HSLM-K21-GR16	2	2	40	70	54	75

HSCM

Swaged Male Connector-210K

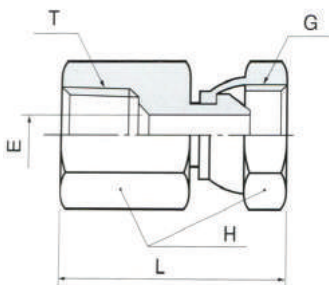


Unit:mm

Designations	G (PF)	T (PT)	E	H	L
HSCM-K21-GR02	1/4	1/4	4	19	41
HSCM-K21-GR03	3/8	3/8	7	22	48
HSCM-K21-GR04	1/2	1/2	10	27	53
HSCM-K21-GR06	3/4	3/4	14	36	61
HSCM-K21-GR08	1	1	20	41	66
HSCM-K21-GR10	1 1/4	1 1/4	25	50	72
HSCM-K21-GR12	1 1/2	1 1/2	30	60	75
HSCM-K21-GR16	2	2	40	70	89

HSCF

Swaged Female Connector-210K

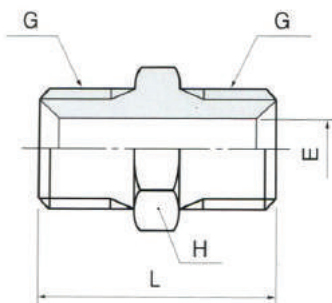


Unit:mm

Designations	G (PF)	T (PT)	E	H	L
HSCF-K21-GR02	1/4	1/4	4	19	41
HSCF-K21-GR03	3/8	3/8	7	22	47
HSCF-K21-GR04	1/2	1/2	10	27	50
HSCF-K21-GR06	3/4	3/4	14	36	58
HSCF-K21-GR08	1	1	25	41	66
HSCF-K21-GR10	1 1/4	1 1/4	25	50	70
HSCF-K21-GR12	1 1/2	1 1/2	30	60	72
HSCF-K21-GR16	2	2	40	70	88

HHNA

Hex Nipple(A)-210K



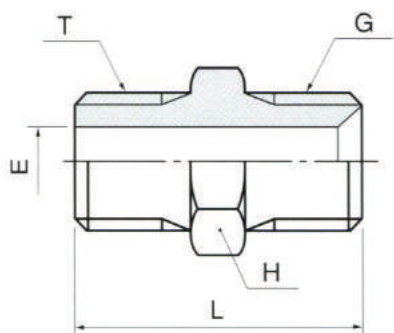
Unit:mm

Designations	G (PF)	E	H	L
HHNA-K21-G02	1/4	4	19	35
HHNA-K21-G03	3/8	7	22	42
HHNA-K21-G04	1/2	10	27	48
HHNA-K21-G06	3/4	14	36	56
HHNA-K21-G08	1	20	41	62
HHNA-K21-G10	1 1/4	25	50	66
HHNA-K21-G12	1 1/2	30	50	66
HHNA-K21-G16	2	40	65	83

SHINILACE HOSE TYPE

HHNB

Hex Nipple(B)-210K

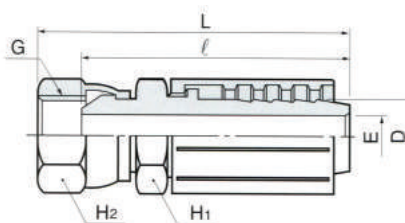


Unit:mm

Designations	G (PF)	T (PT)	E	H	L
HHNB-K21-GR02	1/4	1/4	4	19	35
HHNB-K21-GR03	3/8	3/8	7	22	41
HHNB-K21-GR04	1/2	1/2	10	27	47
HHNB-K21-GR06	3/4	3/4	14	36	54
HHNB-K21-GR08	1	1	25	41	59
HHNB-K21-GR10	1 1/4	1 1/4	25	50	63
HHNB-K21-GR12	1 1/2	1 1/2	30	50	65
HHNB-K21-GR16	2	2	40	65	80

HHNC

Hex Nipple(C)-210K

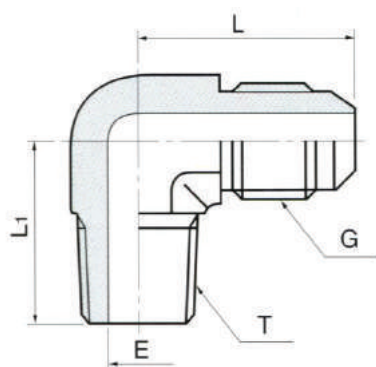


Unit:mm

Designations	G (PF)	T (PT)	E	H	L
HHNC-K21-GR02	1/4	1/4	4	19	40
HHNC-K21-GR03	3/8	3/8	7	22	46
HHNC-K21-GR04	1/2	1/2	10	27	52
HHNC-K21-GR06	3/4	3/4	14	36	60
HHNC-K21-GR08	1	1	25	41	65
HHNC-K21-GR10	1 1/4	1 1/4	25	50	73
HHNC-K21-GR12	1 1/2	1 1/2	30	50	76
HHNC-K21-GR16	2	2	40	65	90

HLM

Male Elbow-210K

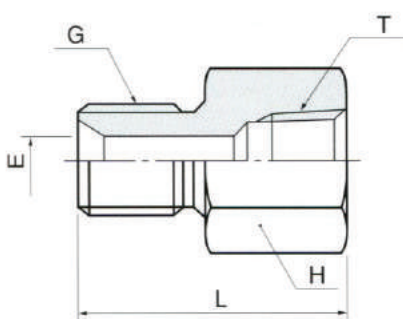


Unit:mm

Designations	G (PF)	T (PT)	E	H	L
HLM-K21-GR02	1/4	1/4	4	28	25
HLM-K21-GR03	3/8	3/8	7	34	31
HLM-K21-GR04	1/2	1/2	10	35	37
HLM-K21-GR06	3/4	3/4	14	45	45
HLM-K21-GR08	1	1	20	54	54
HLM-K21-GR10	1 1/4	1 1/4	25	60	58
HLM-K21-GR12	1 1/2	1 1/2	30	65	64
HLM-K21-GR16	2	2	40	77	75

HAF

Female Adaptor-210K



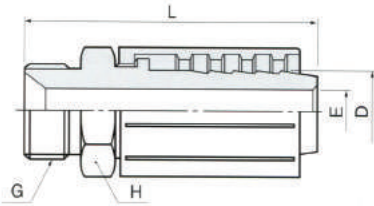
Unit:mm

Designations	G (PF)	T (PT)	E	H	L
HAF-K21-GR02	1/4	1/4	4	19	35
HAF-K21-GR03	3/8	3/8	7	22	40
HAF-K21-GR04	1/2	1/2	10	27	44
HAF-K21-GR06	3/4	3/4	14	36	51
HAF-K21-GR08	1	1	20	41	59
HAF-K21-GR10	1 1/4	1 1/4	25	50	63
HAF-K21-GR12	1 1/2	1 1/2	30	60	65
HAF-K21-GR16	2	2	40	70	78

SHINILACE HOSE TYPE

HN

Nipple-210K

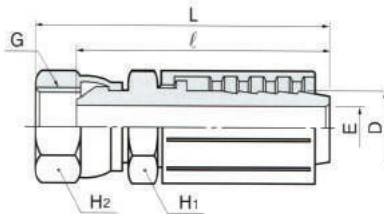


Unit:mm

Designations	D(Hose I.D) inch	mm	G (PF)	E	H	L
HN-K01-HG02	1/4	6.4	1/4	3.5	19	60
HN-K01-HG03	3/8	9.5	3/8	6.3	22	66
HN-K01-HG04	1/2	12.7	1/2	9.3	27	72
HN-K01-HG06	3/4	19.0	3/4	14	36	89
HN-K01-HG08	1	25.4	1	20	41	92
HN-K01-HG10	1 1/4	31.8	1 1/4	24	50	112
HN-K01-HG12	1 1/2	38.1	1 1/2	30	60	112
HN-K01-HG16	2	50.8	2	40	70	140

HSNM

Swaged Nipple(M)-210K

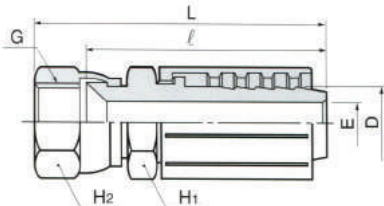


Unit:mm

Designations	D(Hose I.D) inch	mm	G (PF)	E	H ₁	H ₂	/	L
HSNM-K21-H02	1/4	6.4	1/4	3.5	19	19	61	64
HSNM-K21-H03	3/8	9.5	3/8	6.3	22	22	66	71
HSNM-K21-H04	1/2	12.7	1/2	9.3	27	27	70	76
HSNM-K21-H06	3/4	19.0	3/4	14	36	36	88	94
HSNM-K21-H08	1	25.4	1	20	41	41	89	97
HSNM-K21-H10	1 1/4	31.8	1 1/4	24	50	50	110	117
HSNM-K21-H12	1 1/2	38.1	1 1/2	30	60	60	113	118
HSNM-K21-H16	2	50.8	2	40	70	70	137	147

HSNF

Swaged Nipple(F)-210K

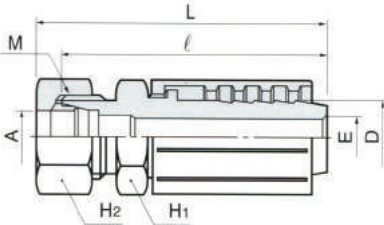


Unit:mm

Designations	D(Hose I.D) inch	mm	G (PF)	E	H ₁	H ₂	/	L
HSNF-K21-H02	1/4	6.4	1/4	3.5	19	19	56	64
HSNF-K21-H03	3/8	9.5	3/8	6.3	22	22	61	71
HSNF-K21-H04	1/2	12.7	1/2	9.3	27	27	65	76
HSNF-K21-H06	3/4	19.0	3/4	14	36	36	82	94
HSNF-K21-H08	1	25.4	1	20	41	41	83	97
HSNF-K21-H10	1 1/4	31.8	1 1/4	24	50	50	102	117
HSNF-K21-H12	1 1/2	38.1	1 1/2	30	60	60	104	118
HSNF-K21-H16	2	50.8	2	40	70	70	127	147

HNB

Bite Nipple-210K



Unit:mm

Designations	D(Hose I.D) inch	mm	A	E	M	H ₁	H ₂	/	About L
HNB-K21-H0206	1/4	6.4	6	3.5	M 12 × 1.25	19	14	56	66
HNB-K21-H2028	1/4	6.4	8	3.5	M 14 × 1.5	19	17	56	67
HNB-K21-H0310	3/8	9.5	10	6.3	M 16 × 1.5	22	19	58	69
HNB-K21-H0412	1/2	12.7	12	9.3	M 18 × 1.5	27	22	62	73
HNB-K21-H0415	1/2	12.7	15	9.3	M 22 × 1.5	30	27	65	77
HNB-K21-H0416	1/2	12.7	16	9.3	M 24 × 1.5	30	30	65	77
HNB-K21-H0618	3/4	19.0	18	14	M 26 × 1.5	36	32	77	89
HNB-K21-H0620	3/4	19.0	20	14	M 28 × 1.5	36	36	77	89
HNB-K21-H0622	3/4	19.0	22	14	M 30 × 1.5	36	36	78	91
HNB-K21-H0825	1	25.4	25	20	M 35 × 1.5	41	41	78	91
HNB-K21-H0828	1	25.4	28	20	M 38 × 1.5	41	46	79	93
HNB-K21-H1030	1 1/4	31.8	30	24	M 40 × 1.5	50	46	96	110
HNB-K21-H1032	1 1/4	31.8	32	24	M 42 × 1.5	50	50	97	111
HNB-K21-H1035	1 1/4	31.8	35	24	M 45 × 1.5	50	55	97	115
HNB-K21-H1238	1 1/2	38.1	38	30	M 48 × 1.5	60	60	100	119
HNB-K21-H1240	1 1/2	38.1	40	30	M 52 × 2	60	60	100	119
HNB-K21-H1242	1 1/2	38.1	42	30	M 52 × 2	60	60	101	122
HNB-K21-H1650	2	50.8	50	40	M 62 × 2	70	74	124	146

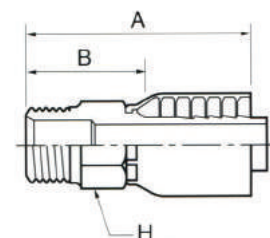
SHINILACE HOSE TYPE

143 Male NPTF Pipe-Rigid

Straight

Note : "C"-Stainless Fitting. Must be crimped with
Karrykrimp 2, PHastkrimp, Superkrimp, or Parkrimp 2.

Note : Fittings with an "SM" suffix have metric hex.



 Part Number	 Thread		 Hose		A		H	B	
	inch		inch		inch	mm	inch	inch	mm
143-2-4	1/8 × 27	-2	1/4	-4	1.80	46	9/16	1.05	27
143-2-4C+	1/8 × 27	-2	1/4	-4	1.80	46	9/16	1.05	27
143-4-4	1/4 × 18	-4	1/4	-4	2.02	51	9/16	1.27	32
143-4-4C	1/4 × 18	-4	1/4	-4	2.02	51	9/16	1.27	32
143-4-4-SM+	1/4 × 18	-4	1/4	-4	1.87	47	17mm	1.27	28
143-4-5	1/4 × 18	-4	5/16	-5	1.95	50	11/16	1.20	30
143-4-5C+	1/4 × 18	-4	5/16	-5	1.95	50	11/16	1.20	30
143-4-6	1/4 × 18	-4	3/8	-6	2.26	57	3/4	1.25	32
143-4-6C+	1/4 × 18	-4	3/8	-6	2.26	57	3/4	1.25	32
143-6-4C	3/8 × 18	-6	1/4	-4	1.87	47	11/16	1.12	28
143-6-4C+	3/8 × 18	-6	1/4	-4	1.87	47	11/16	1.12	28
143-6-5	3/8 × 18	-6	5/16	-5	1.95	50	11/16	1.20	30
143-6-6	3/8 × 18	-6	3/8	-6	2.26	57	3/4	1.25	32
143-6-6C	3/8 × 18	-6	3/8	-6	2.26	57	3/4	1.25	32
143-6-8	3/8 × 18	-6	1/2	-8	2.37	60	7/8	1.37	35
143-6-10	3/8 × 18	-6	5/8	-10	2.59	66	15/16	1.18	30
143-6-12+	3/8 × 18	-6	3/4	-12	2.83	72	1-1/16	1.41	36
143-8-4	1/2 × 14	-8	1/4	-4	2.14	54	7/8	1.39	35
143-8-6	1/2 × 14	-8	3/8	-4	2.37	60	7/8	1.37	35
143-8-6C+	1/2 × 14	-8	3/8	-4	2.37	60	7/8	1.37	35
143-8-8	1/2 × 14	-8	1/2	-8	2.63	67	7/8	1.38	35
143-8-8C	1/2 × 14	-8	1/2	-8	2.63	67	7/8	1.38	35
143-8-10	1/2 × 14	-8	5/8	-10	2.59	66	15/16	1.18	30
143-8-12	1/2 × 14	-8	3/4	-12	2.85	72	1-1/16	1.44	37
143-12-8	3/4 × 14	-12	1/2	-8	2.68	68	1-1/16	1.43	36
143-12-8C+	3/4 × 14	-12	1/2	-8	2.68	68	1-1/16	1.43	36
143-12-10	3/4 × 14	-12	5/8	-10	3.01	76	15/16	1.60	41
143-12-12	3/4 × 14	-12	3/4	-12	3.08	78	1-1/16	1.65	42
143-12-12C	3/4 × 14	-12	3/4	-12	3.08	78	1-1/16	1.65	42
143-12-16	3/4 × 14	-12	1	-16	3.38	86	1-3/8	1.79	45
143-16-8+	1 × 11-1/2	-16	1/2	-8	3.07	78	1-3/8	1.82	46
143-16-12	1 × 11-1/2	-16	3/4	-12	3.08	78	1-3/8	1.65	42
143-16-16	1 × 11-1/2	-16	1	-16	3.62	92	-3/8	2.03	52
143-16-16C	1 × 11-1/2	-16	1	-16	3.62	92	-3/8	2.03	52
143-16-20C	1 × 11-1/2	-16	1	-20	3.68	93	1-3/4	2.03	52
143-16-20C+	1 × 11-1/2	-16	1	-20	3.68	93	1-3/4	2.03	52
143-20-20	1-1/4 × 11-1/2	-20	1-1/4	-20	4.04	103	1-3/4	2.39	61
143-20-20C	1-1/4 × 11-1/2	-20	1-1/4	-20	4.04	103	1-3/4	2.29	61
143-24-20+	1-1/2 × 11-1/2	-24	1-1/4	-20	4.03	102	2	2.38	60
143-24-24	1-1/2 × 11-1/2	-24	1-1/2	-24	3.78	96	2	2.38	60
143-24-24C+	1-1/2 × 11-1/2	-24	1-1/2	-24	3.78	96	2	2.38	60
143-32-32	2 × 11-1/2	-32	2	-32	4.33	110	3-12	2.42	61
143-32-32C+	2 × 11-1/2	-32	2	-32	4.33	110	3-12	2.42	61

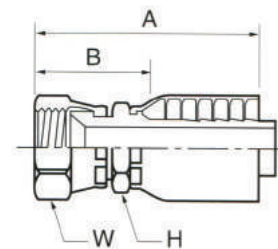
SHINILACE HOSE TYPE

643 Female JIC 37° - Swivel

Straight

~ These 10643 fittings contain a dual seat that accepts both the JIC (37 deg.) and SAE (45 deg.) male configurations. the -6 and 12 SAE 45 deg. swivel fittings are shown under 10843

Note : "C" - Stainless Steel Fitting. Must be crimped with Karrykrimp 2, PHastkrimp, Superkrimp, or Parkrimp 2.



 Part Number	 Thread			 Hose		A		H	W	B	
	inch			inch		inch	mm	inch	inch	inch	mm
643-4-4~	1/4	7/16 × 20	-4	1/4	-4	1.94	49	9/16	9/16	1.19	30
643-4-4C~	1/4	7/16 × 20	-4	1/4	-4	1.94	49	9/16	9/16	1.19	30
643-4-5+~	1/4	7/16 × 20	-4	5/16	-5	2.02	50	11/16	9/16	1.27	30
643-4-6	1/4	7/16 × 20	-4	3/8	-6	2.02	56	11/16	9/16	1.17	30
643-4-6C+	1/4	7/16 × 20	-4	3/8	-6	2.02	56	11/16	9/16	1.17	30
643-5-4~	5/16	1/2 × 20	-5	1/4	-4	2.03	52	9/16	5/8	1.28	33
643-5-5~	5/16	1/2 × 20	-5	5/16	-5	2.08	53	11/16	5/8	1.33	34
643-5-6~	5/16	1/2 × 20	-5	3/8	-6	2.26	57	11/16	5/8	1.23	31
643-5-6C~+	5/16	1/2 × 20	-5	3/8	-6	2.26	57	11/16	5/8	1.23	31
643-6-4	3/8	9/16 × 18	-6	1/4	-4	2.05	52	9/16	11/16	1.30	33
643-6-4C+	3/8	9/16 × 18	-6	1/4	-4	2.05	52	9/16	11/16	1.30	33
643-6-5	3/8	9/16 × 18	-6	5/16	-5	2.05	53	11/16	11/16	1.35	34
643-6-6	3/8	9/16 × 18	-6	3/8	-6	2.29	58	11/16	11/16	1.26	32
643-6-6C	3/8	9/16 × 18	-6	3/8	-6	2.29	58	11/16	11/16	1.26	32
643-6-8	3/8	9/16 × 18	-6	1/2	-8	2.51	64	13/16	11/16	1.25	32
643-8-4~+	1/2	3/4 × 16	-8	1/4	-4	2.22	56	11/16	7/8	1.47	37
643-8-6~	1/2	3/4 × 16	-8	3/8	-6	2.49	63	11/16	7/8	1.46	37
643-8-8~	1/2	3/4 × 16	-8	1/2	-8	2.63	67	13/16	7/8	1.37	35
643-8-8C~	1/2	3/4 × 16	-8	1/2	-8	2.63	67	13/16	7/8	1.37	35
643-8-10~	1/2	3/4 × 16	-8	5/8	-10	2.82	72	15/16	7/8	1.38	35
643-8-12~	1/2	3/4 × 16	-8	3/4	-12	2.83	72	1-1/16	7/8	1.39	35
643-8-12C~+	1/2	3/4 × 16	-8	3/4	-12	2.83	72	1-1/16	7/8	1.39	35
643-8-16~+	1/2	3/4 × 16	-8	1	-16	3.27	82	1-1/14	7/8	1.65	41
643-10-6~	5/8	7/8 × 14	-10	3/8	-6	2.51	64	7/8	1	1.48	38
643-10-6C~+	5/8	7/8 × 14	-10	3/8	-6	2.51	64	7/8	1	1.48	38
643-10-8C~	5/8	7/8 × 14	-10	1/2	-8	2.85	72	7/8	1	1.59	40
643-10-8C~+	5/8	7/8 × 14	-10	1/2	-8	2.85	72	7/8	1	1.59	40
643-10-10~	5/8	7/8 × 14	-10	5/8	-10	2.93	74	15/16	1	1.49	38
643-10-10C~	5/8	7/8 × 14	-10	5/8	-10	2.93	74	15/16	1	1.49	38
643-10-12~	5/8	7/8 × 14	-10	3/4	-12	2.93	74	1-1/16	1	1.49	38
643-12-8	3/4	1-1/16 × 12	-12	1/2	-8	2.78	71	1-1/16	1-1/4	1.52	39
643-12-10	3/4	1-1/16 × 12	-12	5/8	-10	3.10	79	1-1/16	1-1/4	1.66	42
643-12-12	3/4	1-1/16 × 12	-12	3/4	-12	3.17	81	1-1/16	1-1/4	1.73	44
643-12-12C	3/4	1-1/16 × 12	-12	3/4	-12	3.17	81	1-1/16	1-1/4	1.73	44
643-12-16	3/4	1-1/16 × 12	-12	1	-16	3.29	84	1-3/8	1-1/4	1.67	42
643-12-16C+	3/4	1-1/16 × 12	-12	1	-16	3.29	84	1-3/8	1-1/4	1.67	42
643-14-12	7/8	1-3/16 × 12	-14	3/4	-12	3.18	81	1-1/4	1-3/8	1.74	44
643-16-12	1	1-5/16 × 12	-16	3/4	-12	3.31	84	1-1/4	1-1/2	1.87	47
643-16-12C+	1	1-5/16 × 12	-16	3/4	-12	3.31	84	1-1/4	1-1/2	1.87	47
643-16-16	1	1-5/16 × 12	-16	1	-16	3.62	92	1-3/8	1-1/2	2.00	51
643-16-16C	1	1-5/16 × 12	-16	1	-16	3.62	92	1-3/8	1-1/2	2.00	51
643-16-20+	1	1-5/16 × 12	-16	1-1/4	-20	3.81	97	1-7/8	1-1/2	2.12	54

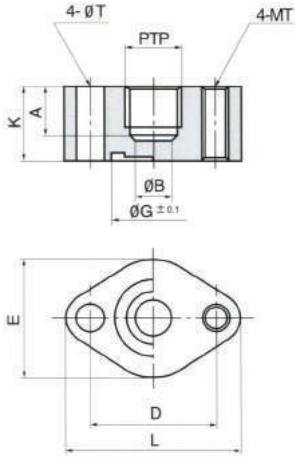
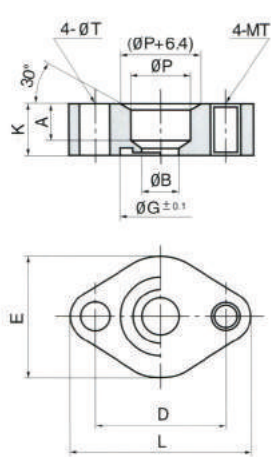
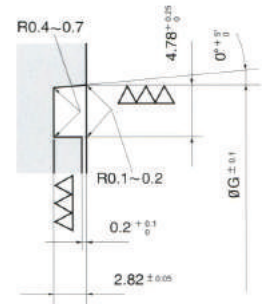
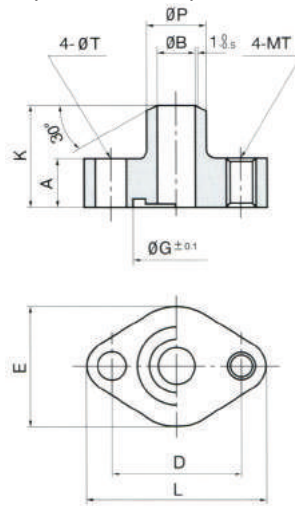
Note : More sizes of this fitting are located the following page.

SQUARE FLANGE TYPE



SHINILACE SQUARE FLANGE TYPE

TWO BOLT FLANGE

· 나사형
(BSPT TYPE)· 용접형
(SOCKET WELD TYPE)· 용접형
(WELD ON TYPE)

O-RING GROOVE 상세도

나사형 / BSPT TYPE

형 식	적용PIPE	E	L	D	K	A	ØB	P	G	T	O-RING AS568
AL-15T	ø21.7	46	67	47.6	26	19	14.3	1/2"	31.52	M10 ø11	-214
AL-20T	ø27.2	50	71.5	52.4	28	19	19.4	3/4"	37.87		-218
AL-25T	ø34.0	50	71.5	52.4	32	19	25	1"	37.87		-218
AL-32T	ø42.7	70	95	69.9	36	22	32.9	1 1/4"	50.62	M12 ø13.5	-224
AL-40T	ø48.6	70	95	69.9	42	24	38.4	1 1/2"	50.62		-224

용접형 / SOCKET WELD TYPE

형 식	적용PIPE	E	L	D	K	A	ØB	P	G	T	O-RING AS568
AL-15S	ø21.7	46	67	47.6	19	14	14.3	22.2	31.52	M10 ø11	-214
AL-20S	ø27.2	50	71.5	52.4	23	16	19.4	27.7	37.87		-218
AL-25S	ø34.0	50	71.5	52.4	28.5	17.5	25	34.5	37.87		-218
AL-32S	ø42.7	70	95	69.9	32	19	32.9	43.2	50.62	M12 ø13.5	-224
AL-40S	ø48.6	70	95	69.9	36	22	38.4	49.1	50.62		-224

용접형 / WELD ON TYPE

형 식	적용PIPE	E	L	D	K	A	ØB	P	G	T	O-RING AS568
AL-15W	ø21.7	46	67	47.6	38	18	14.3	22.2	31.52	M10 ø11	-214
AL-20W	ø27.2	50	71.5	52.4	38	18	19.4	27.7	37.87		-218
AL-25W	ø34.0	50	71.5	52.4	38	18	25	34.5	37.87		-218
AL-32W	ø42.7	70	95	69.9	42	22	32.9	43.2	50.62	M12 ø13.5	-224
AL-40W	ø48.6	70	95	69.9	45	25	38.4	49.1	50.62		-224

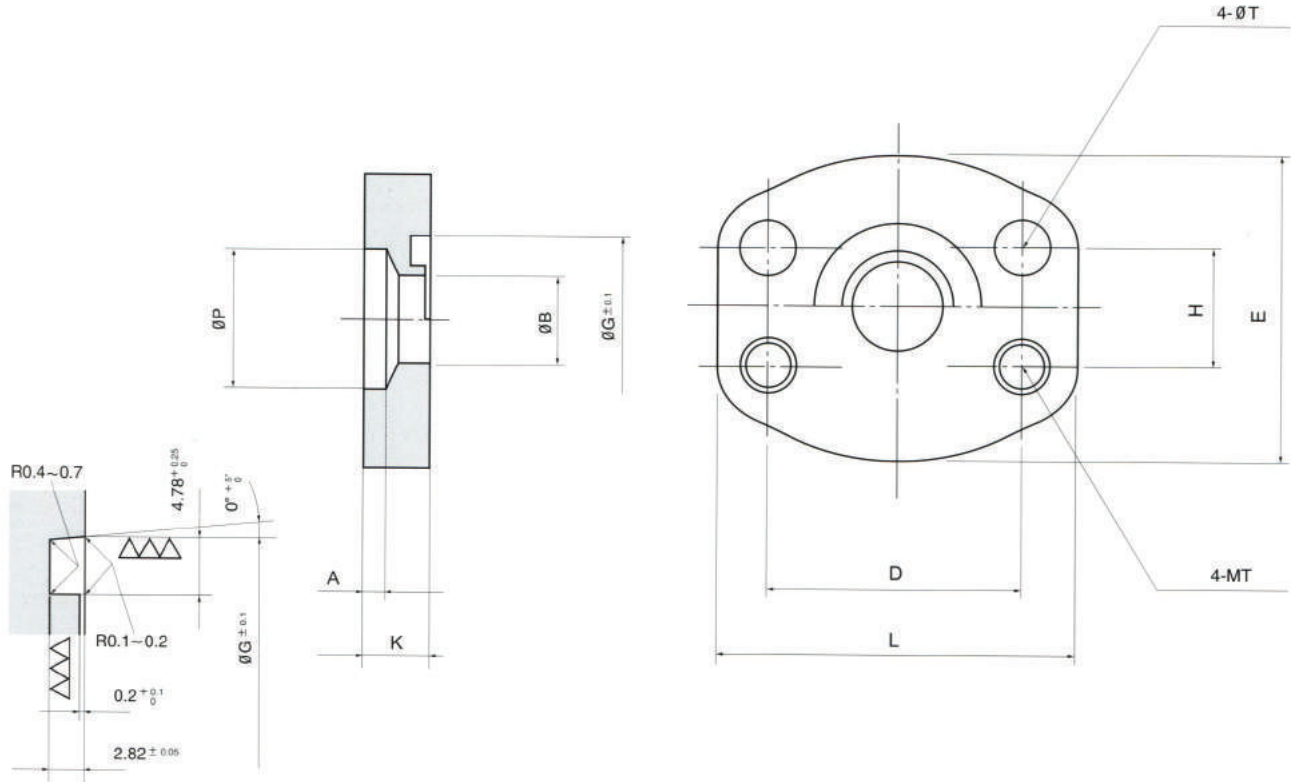
NOTE : 1. T는 O-RING GROOVE가 있는 경우 DRILL HOLE가공을, O-RING GROOVE가 없을 경우 TAP가공을 원칙으로 함.

2. 주문방법 /AL-15 TO → O-RING GROOVE : O, NONE GROOVE : N

THREAD TYPE : T, SOCKET WELD : S, WELD ON : W

3. 상기 이외에 주문제작도 가능함.

SOCKET WELD FLANGE



O-RING GROOVE 상세도

LOW PRESSURE 500PSI

형 식	적용PIPE	E	L	H	D	K	P	B	A	G	T	O-RING AS568
BB-15S	$\phi 21.7$	46	54	17.5	38.1	10	22.2	16	3	28.35	M8 $\phi 9$	-212
BB-20S	$\phi 27.2$	52	65	22.2	47.6	12	27.7	21.5	4	31.52	M10	-214
BB-25S	$\phi 34.0$	60	70	26.2	52.4	12	34.5	28	4	39.45	$\phi 11$	-219
BB-32S	$\phi 42.7$	73	79	30.2	58.7	12	43.2	36	4	50.62		-224
BB-40S	$\phi 48.6$	82	94	35.7	69.9	15	49.1	42	4	56.97	M12	-226
BB-50S	$\phi 60.5$	94	102	42.9	77.8	15	61.0	53	4	66.50	$\phi 13.5$	-229
BB-65S	$\phi 76.3$	106	114	50.8	88.9	15	77.0	68	4	82.37		-234
BB-80S	$\phi 89.1$	130	135	61.9	106.4	20	90.0	80	5	95.07	M16	-238
BB-90S	$\phi 101.6$	136	152	69.9	120.7	20	102.4	93	5	107.77	$\phi 17.5$	-242
BB-100S	$\phi 114.3$	146	162	77.8	130.2	25	115.1	106	6	123.65		-247
BB-125S	$\phi 139.8$	170	190	92.1	152.4	25	140.6	130	6	145.87		-254

NOTE : 1. T는 O-RING GROOVE가 있는 경우 DRILL HOLE가공을, O-RING GROOVE가 없을 경우 TAP가공을 원칙으로 함.

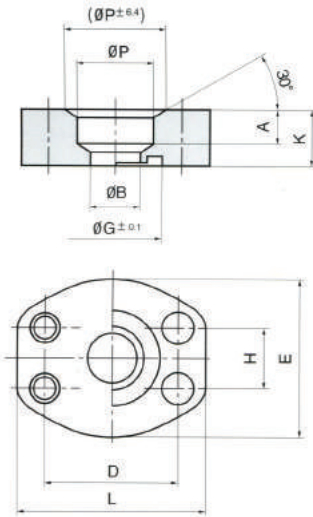
2. 주문방법 /BB-125 S O → O-RING GROOVE : O, NONE GROOVE : N
SIZE

3. 상기 이외에 주문제작도 가능함.

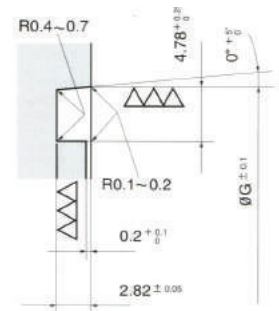
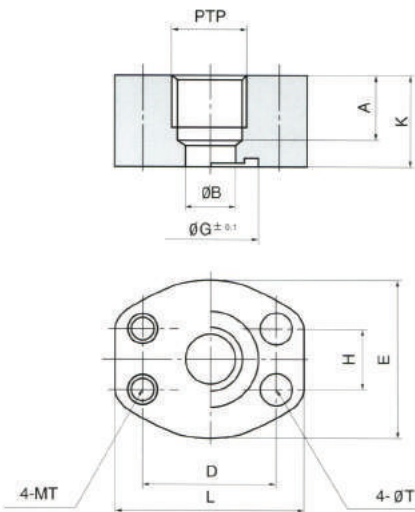
SHINILACE SQUARE FLANGE TYPE

THREAD FLANGE, SOCKET WELD FLANGE

· 용접형
(SOCKET WELD TYPE)



· 나사형
(BSPT TYPE)



O-RING GROOVE 상세도

나사형 / BSPT TYPE 3000PSI

형 식	적용PIPE	E	L	H	D	K	P	B	A	G	T	O-RING AS568
CL-15T	ø21.7	46	54	17.5	38.1	26	1/2"	14	19	26.75	M8 ø9	-211
CL-20T	ø27.2	52	65	22.2	47.6	28	3/4"	19	19	31.52	M10	-214
CL-25T	ø34.0	60	70	26.2	52.4	32	1"	25	19	39.45	ø11	-219
CL-32T	ø42.7	73	79	30.2	58.7	36	1 1/4"	32	22	50.62	ø11	-222
CL-40T	ø48.6	82	94	35.7	69.9	42	1 1/2"	38	24	56.97	M12	-225
CL-50T	ø60.5	94	102	42.9	77.8	42	2"	51	30	66.50	ø13.5	-228
CL-65T	ø76.3	106	114	50.8	88.9	48	2 1/2"	63	30	82.37	ø13.5	-232
CL-80T	ø89.1	130	135	61.9	106.4	48	3"	73	34	95.07	M16 ø17.5	-237

용접형 / SOCKET WELD TYPE 3000PSI

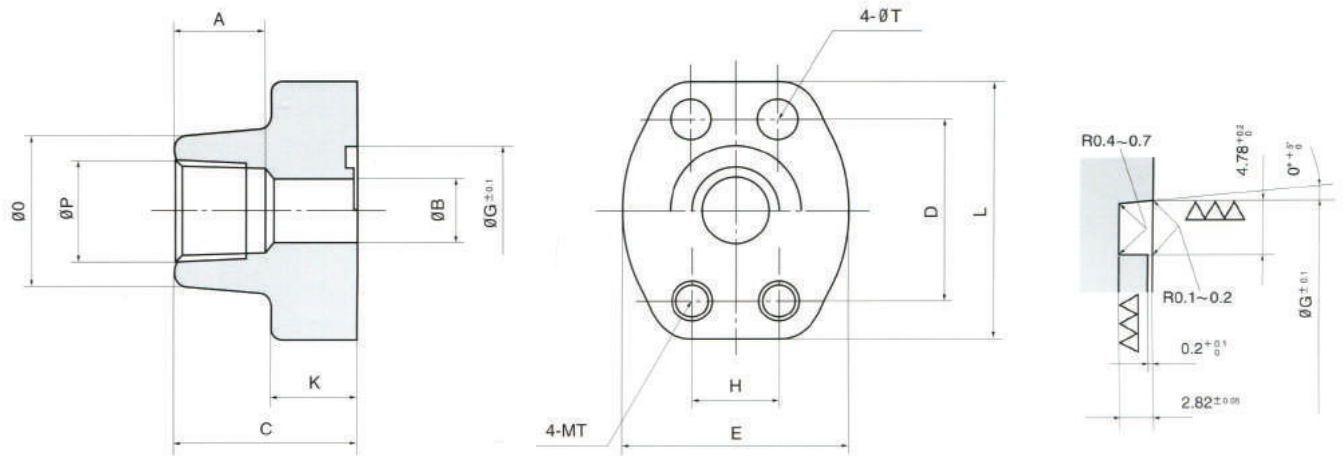
형 식	적용PIPE	E	L	H	D	K	P	B	A	G	T	O-RING AS568
CL-15S	ø21.7	46	54	17.5	38.1	16	22.2	14	10	26.75	M8 ø9	-211
CL-20S	ø27.2	52	65	22.2	47.6	19	27.7	19	14	31.52	M10	-214
CL-25S	ø34.0	60	70	26.2	52.4	23	34.5	25	16	39.45	ø11	-219
CL-32S	ø42.7	73	79	30.2	58.7	28	43.2	32	18	50.62	ø11	-222
CL-40S	ø48.6	82	94	35.7	69.9	32	49.1	38	19	56.97	M12	-225
CL-50S	ø60.5	94	102	42.9	77.8	36	61.0	51	22	66.50	ø13.5	-228
CL-65S	ø76.3	106	114	50.8	88.9	48	77.0	63	25	82.37	ø13.5	-232
CL-80S	ø89.1	130	135	61.9	106.4	54	90.0	73	32	95.07	M16	-237
*CL-90S	ø101.6	136	152	69.9	120.7	38	102.4	89	30	107.77	ø17.5	-241
*CL-100S	ø114.3	146	162	77.8	130.2	38	115.1	99	30	123.65	ø17.5	-245

NOTE : 1. T는 O-RING GROOVE가 있는 경우 DRILL HOLE가공을, O-RING GROOVE가 없을 경우 TAP가공을 원칙으로 함.

2. 주문방법 /CL-15 T C → O-RING GROOVE : O, NONE GROOVE : N
SIZE □ THREAD TYPE : T, SOCKET WELD : S, WELD ON : W

3. *표시한 것은 사용압력 500PSI용임.

THREAD BOSS TYPE FLANGE - BSPT



O-RING GROOVE 상세도

3000PSI														
형식	적용PIPE	E	L	H	D	C	K	P	B	A	O	G	T	O-RING AS568
DL-15T	ø21.7	46	54	17.5	38.1	36	16	1/2"	13	19	32	26.75	M8 _{ø9}	-211
DL-20T	ø27.2	52	65	22.2	47.6	38	18	3/4"	19	19	38	31.52	M10	-214
DL-25T	ø34.0	60	70	26.2	52.4	38	18	1"	25	19	44	39.45	ø11	-219
DL-32T	ø42.7	73	79	30.2	58.7	42	22	1 1/4"	32	22	52	50.62		-222
DL-40T	ø48.6	82	94	35.7	69.9	45	25	1 1/2"	38	24	58	56.97	M12	-225
DL-50T	ø60.5	94	102	42.9	77.8	50	25	2"	51	30	72	66.50	ø13.5	-228
DL-65T	ø76.3	106	114	50.8	88.9	50	25	2 1/2"	63	30	88	82.37		-232
DL-80T	ø89.1	130	135	61.9	106.4	53	28	3"	73	34	101	95.07	M16	-237
DL-90T	ø101.6	136	152	69.9	120.7	53	28	3 1/2"	89	34	114	107.77	ø17.5	-241
DL-100T	ø114.3	146	162	77.8	130.2	53	28	4"	99	34	126	123.65		-245

6000PSI														
형식	적용PIPE	E	L	H	D	C	K	P	B	A	O	G	T	O-RING AS568
DH-10T	ø17.3	46	54	18.2	40.5	36	16	3/8"	11	19	28	26.75	M8 _{ø9}	-211
DH-20T	ø27.2	55	71	23.8	50.8	42	22	3/4"	19	22	38	31.52	M10 _{ø11}	-214
DH-25T	ø34.0	65	81	27.8	57.2	45	25	1"	25	24	44	39.45	M12 _{ø13.5}	-219
DH-32T	ø42.7	78	94	31.8	66.7	48	28	1 1/4"	32	25	55	50.62	M14 _{ø15.5}	-222
DH-40T	ø48.6	94	112	36.5	79.4	50	30	1 1/2"	38	28	60	56.97	M16 _{ø17.5}	-225
DH-50T	ø60.5	114	134	44.5	96.8	63	38	2"	51	30	72	66.50	M20 _{ø22}	-228

NOTE : 1. T는 O-RING GROOVE가 있는 경우 DRILL HOLE가공을, O-RING GROOVE가 없을 경우 TAP가공을 원칙으로 함.

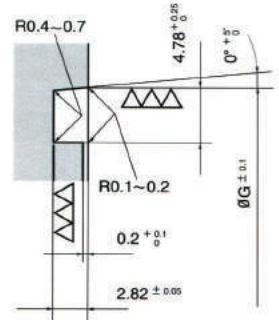
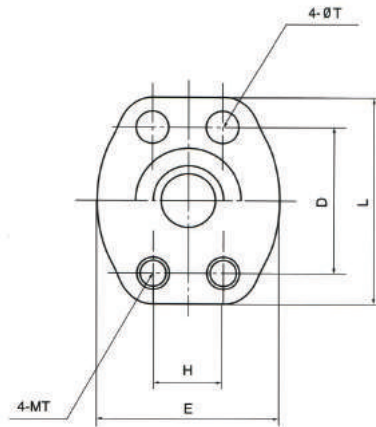
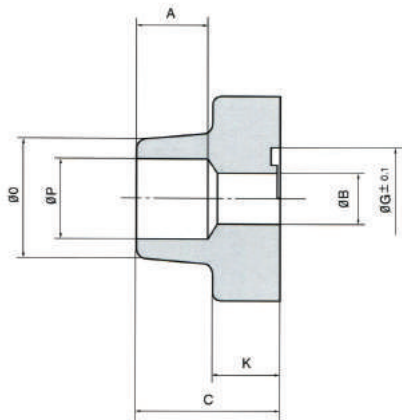
2. 주문방법 /DL-15 T O → O-RING GROOVE : O, NONE GROOVE : N

PRESSURE RANGE → THREAD TYPE

3. 상기 이외에 주문제작도 가능함.

SHINILACE SQUARE FLANGE TYPE

SOCKET WELD BOSS TYPE FLANGE



O-RING GROOVE 상세도

3000PSI

형식	적용PIPE	E	L	H	D	C	K	P	B	A	O	G	T	O-RING AS568
EL-15S	ø21.7	46	54	17.5	38.1	36	16	22.2	13	19	32	26.75	M8 ø9	-211
EL-20S	ø27.2	52	65	22.2	47.6	38	18	27.7	19	19	38	31.52	M10 ø11	-214
EL-25S	ø34.0	60	70	26.2	52.4	38	18	34.5	25	19	44	39.45	M12 ø13.5	-219
EL-32S	ø42.7	73	79	30.2	58.7	42	22	43.2	32	22	52	50.62	M16 ø17.5	-222
EL-40S	ø48.6	82	94	35.7	69.9	45	25	49.1	38	24	58	56.97	M12 ø13.5	-225
EL-50S	ø60.5	94	102	42.9	77.8	50	25	61.0	51	30	72	66.50	M16 ø17.5	-228
EL-65S	ø76.3	106	114	50.8	88.9	50	25	77.0	63	30	88	82.37	M20 ø22	-232
EL-80S	ø89.1	130	135	61.9	106.4	53	28	90.0	73	34	101	95.07	M16 ø17.5	-237
EL-90S	ø101.6	136	152	69.9	120.7	53	28	102.4	89	34	114	107.77	M20 ø22	-241
EL-100S	ø114.3	146	162	77.8	130.2	53	28	115.1	99	34	126	123.65	M20 ø22	-245

6000PSI

형식	적용PIPE	E	L	H	D	C	K	P	B	A	O	G	T	O-RING AS568
EH-10S	ø17.3	46	54	18.2	40.5	36	16	17.8	11	19	28	26.75	M8 ø9	-211
EH-20S	ø27.2	55	71	23.8	50.8	42	22	27.7	19	22	38	31.52	M10 ø11	-214
EH-25S	ø34.0	65	81	27.8	57.2	45	25	34.5	25	24	44	39.45	M12 ø13.5	-219
EH-32S	ø42.7	78	94	31.8	66.7	48	28	43.2	32	25	55	50.62	M14 ø15.5	-222
EH-40S	ø48.6	94	112	36.5	79.4	50	30	49.1	38	28	60	56.97	M16 ø17.5	-225
EH-50S	ø60.5	114	134	44.5	96.8	63	38	61.0	51	30	72	66.50	M20 ø22	-228

NOTE : 1. T는 O-RING GROOVE가 있는 경우 DRILL HOLE가공을, O-RING GROOVE가 없을 경우 TAP가공을 원칙으로 함.

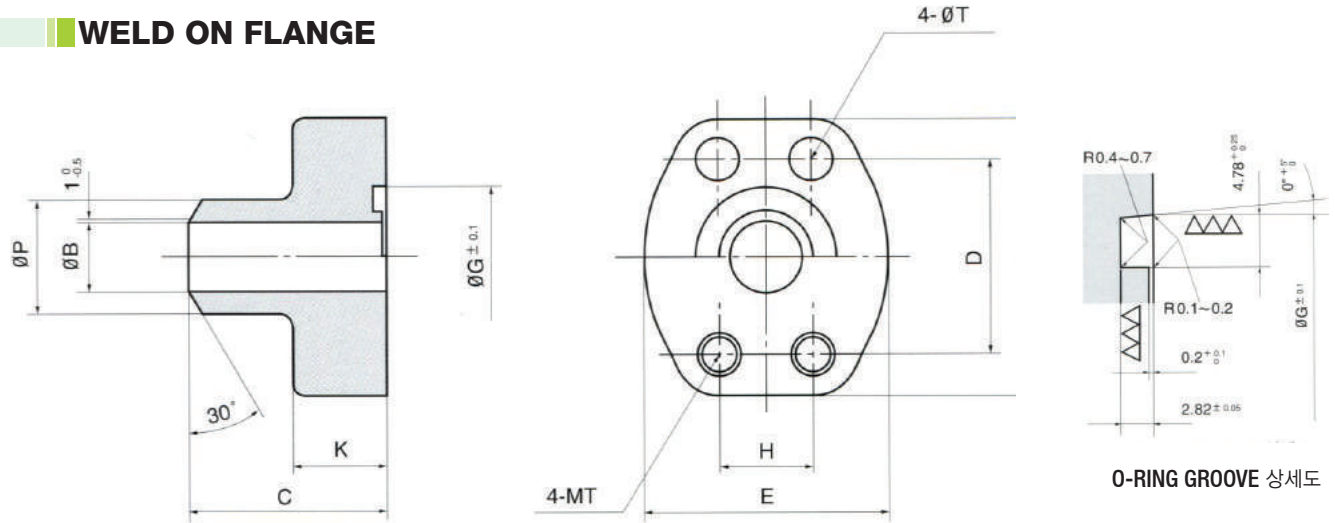
2. 주문방법 /EL-15 S O → O-RING GROOVE : O, NONE GROOVE : N

PRESSURE RANGE : SOCKET TYPE

3. 상기 이외에 주문제작도 가능함.

SHINILACE SQUARE FLANGE TYPE

WELD ON FLANGE



3000PSI														
형 식	NORMAL SIZE		E	L	H	D	C	K	P	B	G	T	O-RING AS568	
	FLANGE	PIPE												
FL-01W	15A	21.7	46	54	17.5	38.1	36	16	22.2	13	26.75	M8	-211	
FL-02W		17.3							17.8	10		ø9		
FL-03W	20A	27.2	52	65	22.2	47.6	38	18	27.7	19	31.52	M10	-214	
FL-04W		21.7							22.2	13		ø11		
FL-05W	25A	34.0	60	70	26.2	52.4	38	18	34.5	25	39.45		-219	
FL-06W		27.2							27.7	19				
FL-07W		21.7							22.2	13				
FL-08W	32A	42.7	73	79	30.2	58.7	42	22	43.2	32	50.62			-222
FL-09W		34.0							34.5	25				
FL-10W		27.2							27.7	19				
FL-11W	40A	48.6	82	94	35.7	69.9	45	25	49.1	38	56.97	M12	-225	
FL-12W		42.7							43.2	32		ø13.5		
FL-13W	50A	ø60.5	94	104	42.9	77.8	50	25	61.0	51	66.50		-228	
FL-14W	65A	ø76.3	106	114	50.8	88.9	50	25	77.0	63	82.37			-232
FL-15W	80A	ø89.1	130	135	61.9	106.4	53	28	90.0	73	95.07	M16	-237	
FL-16W	90A	ø101.6	136	152	69.9	120.7	53	28	102.4	89	107.77	ø17.5		-241
FL-17W	100A	ø114.3	146	162	77.8	130.2	53	28	115.1	99	123.65		-245	

6000PSI													
종 식	NORMAL SIZE		E	L	H	D	C	K	P	B	G	T	O-RING AS568
	FLANGE	PIPE											
FH-10W	10A	ø17.3	46	54	18.2	40.5	38	18	17.8	11	26.75	M8 ^{ø9}	-211
FH-20W	20A	ø27.2	55	71	23.8	50.8	42	22	27.7	19	31.52	M10 ^{ø11}	-214
FH-25W	25A	ø34.0	65	81	27.8	57.2	45	25	34.5	25	39.45	M12 ^{ø13.5}	-219
FH-32W	32A	ø42.7	78	94	31.8	66.7	48	28	43.2	32	50.62	M14 ^{ø15.5}	-222
FH-40W	40A	ø48.6	94	112	36.5	79.4	50	30	49.1	38	56.97	M16 ^{ø17.5}	-225
FH-50W	50A	ø60.5	114	134	44.5	96.8	63	38	61.0	51	66.50	M20 ^{ø22}	-228

NOTE : 1. T는 O-RING GROOVE가 있는 경우 DRILL HOLE가공을, O-RING GROOVE가 없을 경우 TAP가공을 원칙으로 함.

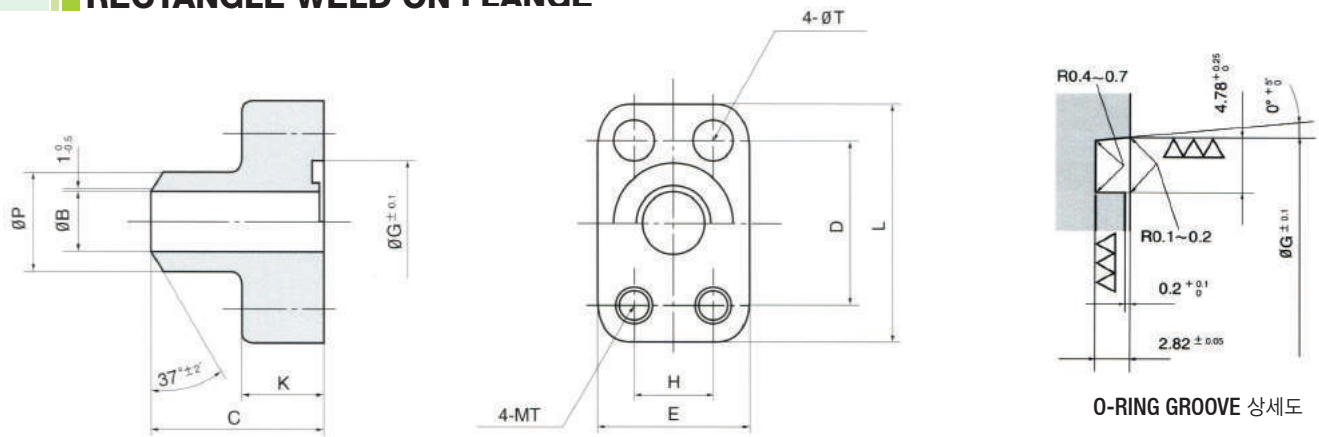
2. 주문방법 /FL-15W O → O-RING GROOVE : O, NONE GROOVE : N

PRESSURE RANGE WELD ON

3. 상기 이외에 주문제작도 가능함.

SHINILACE SQUARE FLANGE TYPE

RECTANGLE WELD ON FLANGE



3000PSI														
형 식	NORMAL SIZE		E	L	H	D	C	K	P	B	G	T	O-RING AS568	
	FLANGE	PIPE												
GL-01W	15A	21.7	34	54	17.5	38.1	36	16	22.2	13	26.75	M8	-211	
GL-02W		17.3							17.8	10		ø9		
GL-03W	20A	27.2	41	65	22.2	47.6	38	18	27.7	19	31.52	M10	-214	
GL-04W		21.7							22.2	13		ø11		
GL-05W	25A	34.0	48	70	26.2	52.4	38	18	34.5	25	39.45		ø11	-219
GL-06W		27.2							27.7	19				
GL-07W		21.7							22.2	13				
GL-08W	32A	42.7	54	79	30.2	68.7	42	22	43.2	32	50.62	M12	-222	
GL-09W		34.0							34.5	25		ø15.5		
GL-10W		27.2							27.7	19				
GL-11W	40A	48.6	64	94	35.7	69.9	45	25	49.1	38	56.97	M16	-225	
GL-12W		42.7							43.2	32		ø17.5		

6000PSI														
형 식	NORMAL SIZE		E	L	H	D	C	K	P	B	G	T	O-RING AS568	
	FLANGE	PIPE												
GH-01W	15A	21.7	34	54	18.2	40.5	38	18	22.2	13	26.75	M8	-211	
GH-02W		17.3							17.8	10		ø9		
GH-03W	20A	27.2	48	71	23.8	50.8	42	22	27.7	19	31.52	M10	-214	
GH-04W		21.7							22.2	13		ø11		
GH-05W	25A	34.0	54	81	27.8	57.2	45	25	34.5	25	39.45		ø11	-219
GH-06W		27.2							27.7	19				
GH-07W		21.7							22.2	13				
GH-08W	32A	42.7	60	94	31.8	66.7	48	28	43.2	32	50.62	M12	-222	
GH-09W		34.0							34.5	25		ø15.5		
GH-10W		27.2							27.7	19				
GH-11W	40A	48.6	70	112	36.5	79.4	50	30	49.1	38	56.97	M16	-225	
GH-12W		42.7							43.2	32		ø17.5		

NOTE : 1. T는 O-RING GROOVE가 있는 경우 DRILL HOLE가공을, O-RING GROOVE가 없을 경우 TAP가공을 원칙으로 함.

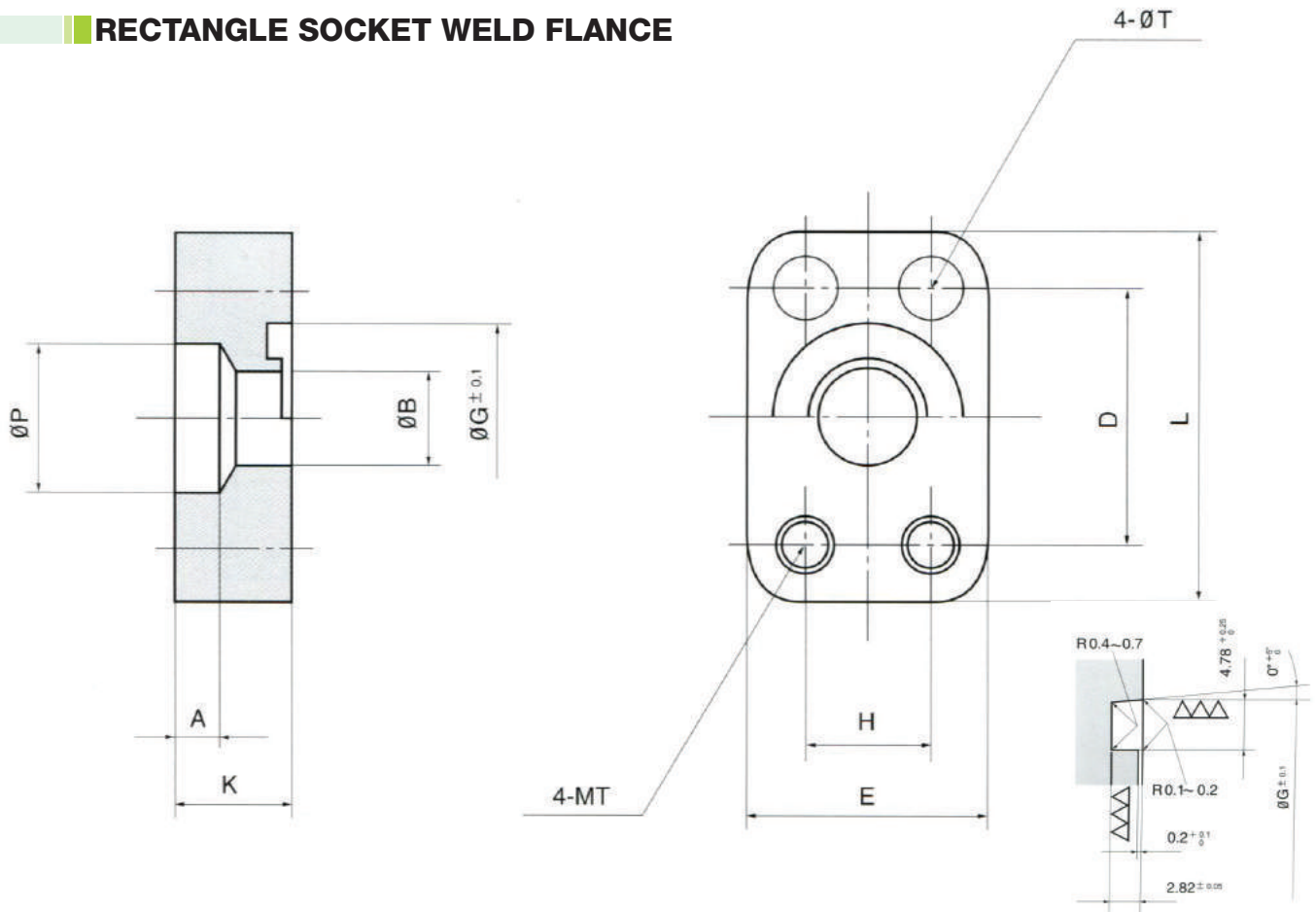
2. 주문방법 /GL-01W O → O-RING GROOVE : O, NONE GROOVE : N

PRESSURE RANGE ┘ WELD ON

3. 상기 이외에 주문제작도 가능함.

SHINILACE SQUARE FLANGE TYPE

RECTANGLE SOCKET WELD FLANGE



O-RING GROOVE 상세도

3000PSI													
형 식	NORMAL SIZE		E	L	H	D	K	P	B	A	G	T	O-RING AS568
	FLANGE	PIPE											
HL-01S	15A	21.7	34	54	17.5	38.1	16	22.2	13	6	26.75	M8	-211
HL-02S		17.3						17.8	10			ø9	
HL-03S	20A	27.2	41	65	22.2	47.6	16	27.7	19	6	31.52	M10	-214
HL-04S		21.7						22.2	13			ø11	
HL-05S	25A	34.0	48	70	26.2	52.4	16	34.5	25	6	39.45		-219
HL-06S		27.2						27.7	19				
HL-07S		21.7						22.2	13				
HL-08S	32A	42.7	54	79	30.2	58.7	16	43.2	32	6	50.62	-222	
HL-09S		34.0						34.5	25				
HL-10S		27.2						27.7	19				
HL-11S	40A	48.6	64	94	35.7	69.9	16	49.1	38	6	56.97		M12
HL-12S		42.7						43.2	32			ø13.5	
HL-13S	50A	60.5	76	102	42.9	77.8	16	61.0	51	6	66.50		-228
HL-14S		48.6						49.1	38				

NOTE : 1. T는 O-RING GROOVE가 있는 경우 DRILL HOLE가공을, O-RING GROOVE가 없을 경우 TAP가공을 원칙으로 함.

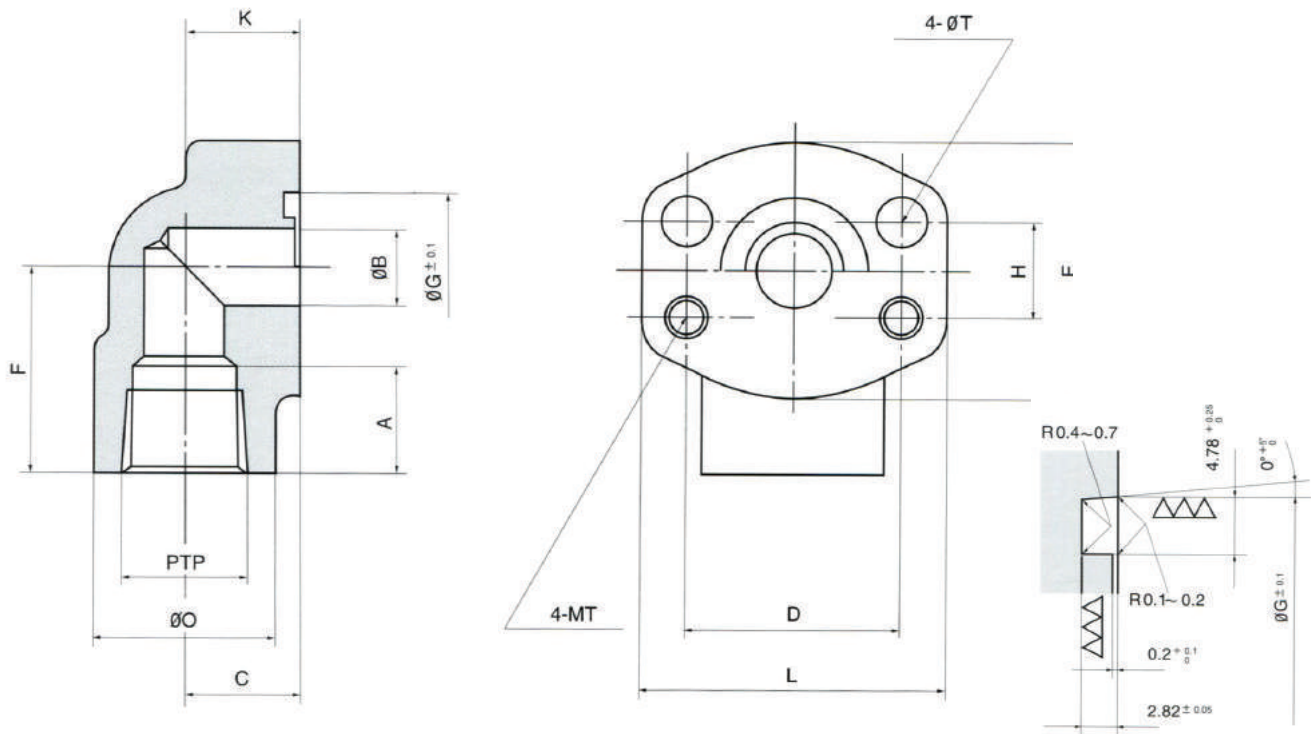
2. 주문방법 /HL-01S O → O-RING GROOVE : O, NONE GROOVE : N

└ SOCKET WELD

3. 상기 이외에 주문제작도 가능함.

SHINILACE SQUARE FLANGE TYPE

THREAD FLANGE 90°



O-RING GROOVE 상세도

3000PSI															
형 식	적용PIPE	E	L	H	D	C	K	P	B	A	O	F	G	T	O-RING AS568
JL-15T	ø21.7	46	54	17.5	38.1	20	20	1/2"	13	19	32	37	26.75	M8 _{ø9}	-211
JL-20T	ø27.2	52	65	22.2	47.6	24	24	3/4"	19	19	38	38	31.52	M10	-214
JL-25T	ø34.0	60	70	26.2	52.4	28	28	1"	25	19	44	43	39.45	ø11	-219
JL-32T	ø42.7	73	79	30.2	58.7	34	34	1 1/4"	32	22	52	51	50.62	M12	-222
JL-40T	ø48.6	82	94	35.7	69.9	38	38	1 1/2"	38	24	58	56	56.97	M12	-225
JL-50T	ø60.5	94	102	42.9	77.8	42	42	2"	51	30	72	65	66.50	ø13.5	-228

6000PSI															
형 식	적용PIPE	E	L	H	D	C	K	P	B	A	O	F	G	T	O-RING AS568
JH-15T	ø21.7	46	54	18.2	40.5	20	20	1/2"	13	19	32	37	26.75	M8 _{ø9}	-211
JH-20T	ø27.2	55	71	23.8	50.8	28	28	3/4"	19	22	38	43	31.52	M10 _{ø11}	-214
JH-25T	ø34.0	65	81	27.8	57.2	34	34	1"	25	24	44	51	39.45	M12 _{ø13.5}	-219
JH-32T	ø42.7	78	94	31.8	66.7	38	38	1 1/4"	32	25	55	56	50.62	M14 _{ø15.5}	-222
JH-40T	ø48.6	94	112	36.5	79.4	42	42	1 1/2"	38	28	60	65	56.97	M16 _{ø17.5}	-225

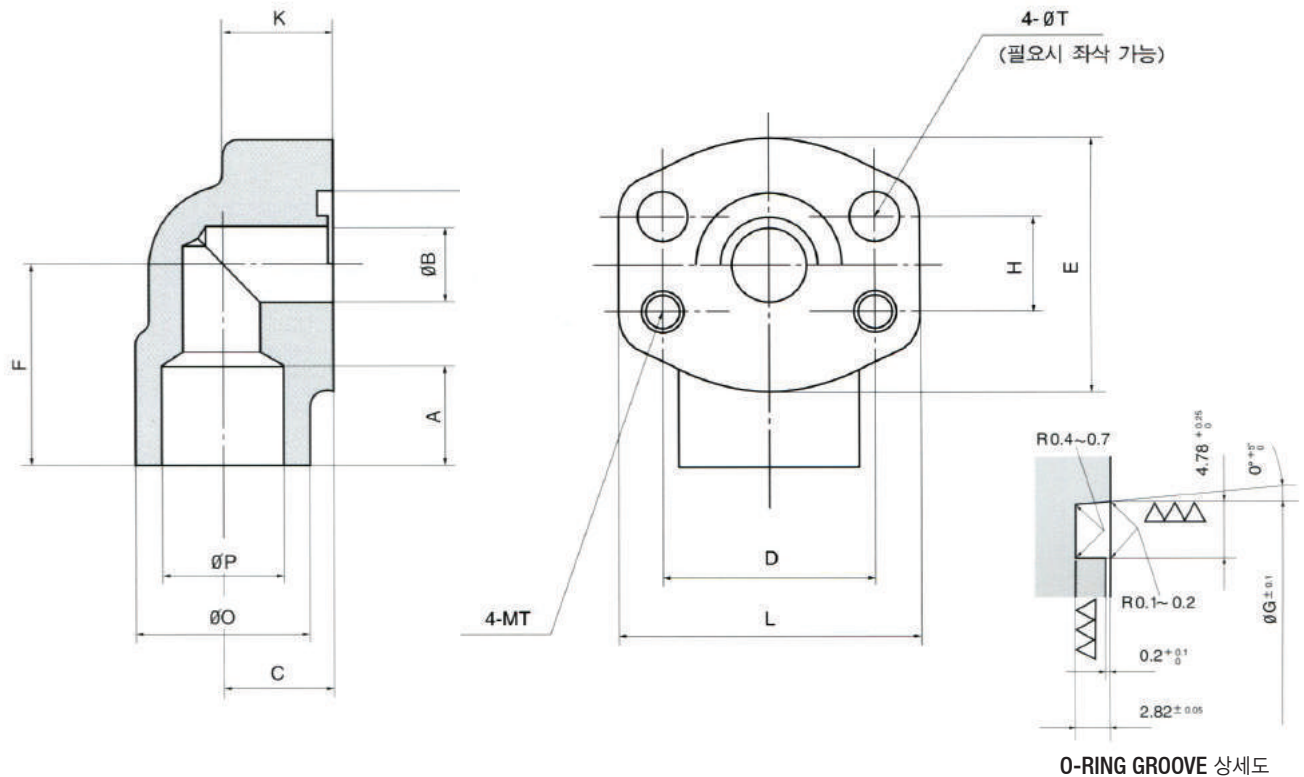
NOTE : 1. T는 O-RING GROOVE가 있는 경우 DRILL HOLE가공을, O-RING GROOVE가 없을 경우 TAP가공을 원칙으로 함.

2. 주문방법 /JL-15 T O → O-RING GROOVE : O, NONE GROOVE : N

PRESSURE RANGE ┘ THREAD TYPE

3. 상기 이외에 주문제작도 가능함.

SOCKET WELD FLANGE 90°



O-RING GROOVE 상세도

3000PSI															
형 식	적용PIPE	E	L	H	D	C	K	P	B	A	O	F	G	T	O-RING AS568
KL-15S	ø21.7	46	54	17.5	38.1	20	20	22.2	13	19	32	37	26.75	M8 _{ø9}	-211
KL-20S	ø27.2	52	65	22.2	47.6	24	24	27.7	19	19	38	38	31.52	M10	-214
KL-25S	ø34.0	60	70	26.2	52.4	28	28	34.5	25	19	44	43	39.45	ø11	-219
KL-32S	ø42.7	73	79	30.2	58.7	34	34	43.2	32	22	52	51	50.62		-222
KL-40S	ø48.6	82	94	35.7	69.9	38	38	49.1	38	24	58	56	56.97	M12	-225
KL-50S	ø60.5	94	102	42.9	77.8	42	42	61.0	51	30	72	65	66.50	ø13.5	-228

6000PSI															
형 식	적용PIPE	E	L	H	D	C	K	P	B	A	O	F	G	T	O-RING AS568
KH-15S	ø17.3	46	54	18.2	40.5	20	20	22.2	13	19	32	37	26.75	M8 _{ø9}	-211
KH-20S	ø27.2	55	71	23.8	50.8	28	28	27.7	19	22	38	43	31.52	M10 _{ø11}	-214
KH-25S	ø34.0	65	81	27.8	57.2	34	34	34.5	25	24	44	51	39.45	M12 _{ø13.5}	-219
KH-32S	ø42.7	78	94	31.8	66.7	38	38	43.2	32	25	55	56	50.62	M14 _{ø15.5}	-222
KH-40S	ø48.6	94	112	36.5	79.4	42	42	49.1	38	28	60	65	56.97	M16 _{ø17.5}	-225

NOTE : 1. T는 O-RING GROOVE가 있는 경우 DRILL HOLE가공을, O-RING GROOVE가 없을 경우 TAP가공을 원칙으로 함.

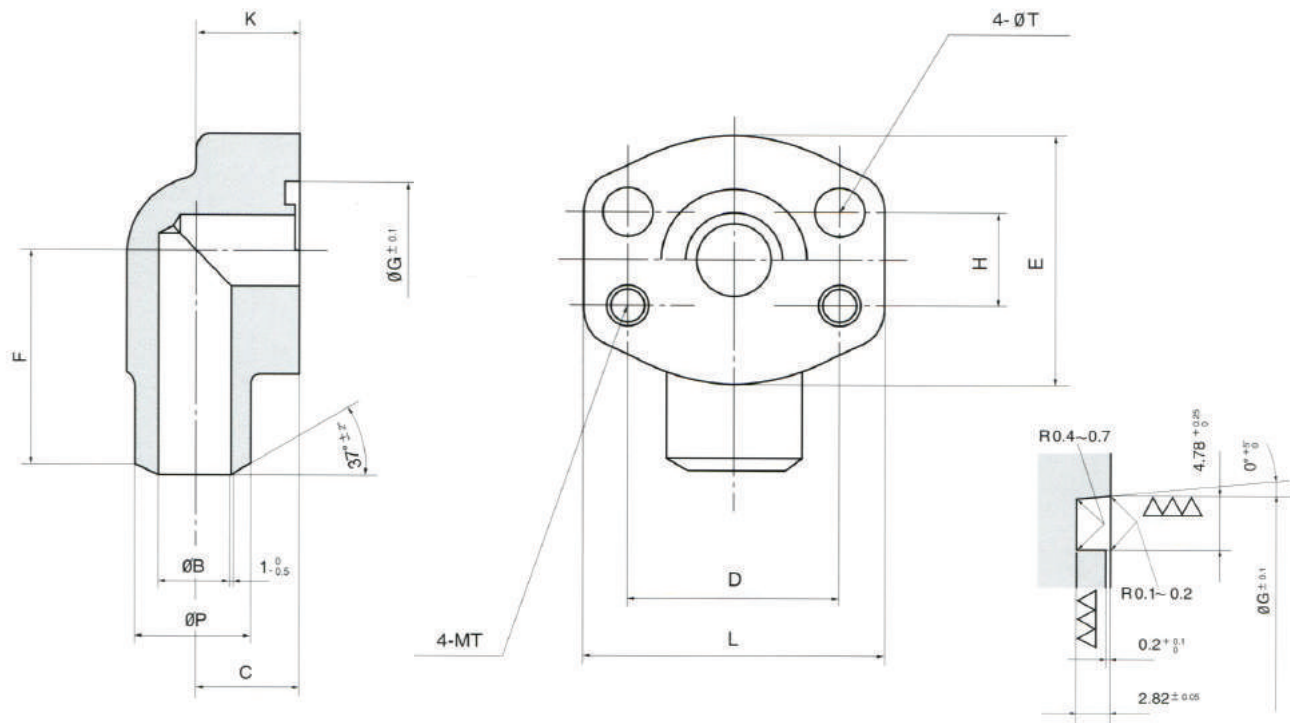
2. 주문방법 /KL-15S O → O-RING GROOVE : O, NONE GROOVE : N

SOCKET WELD

3. 상기 이외에 주문제작도 가능함.

SHINILACE SQUARE FLANGE TYPE

WELD ON FLANGE 90°



O-RING GROOVE 상세도

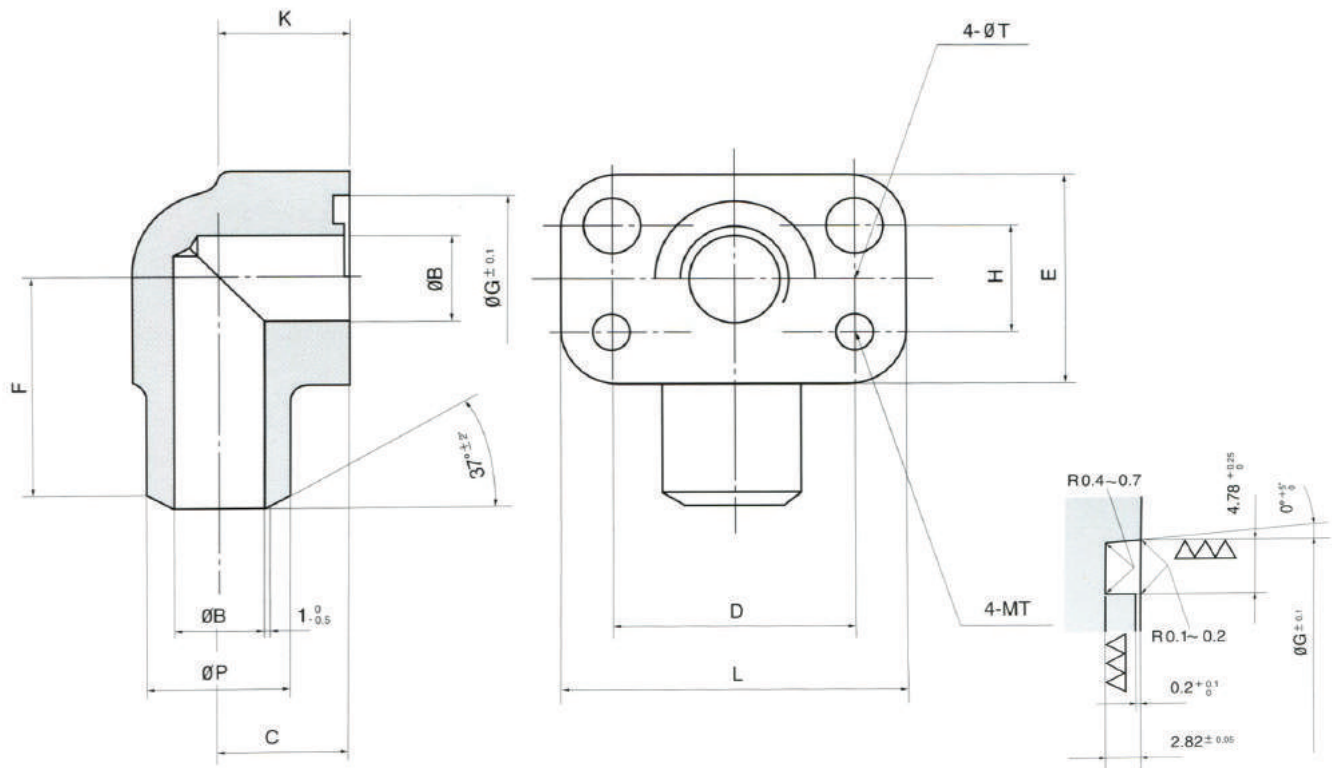
3000PSI															
형 식	적용PIPE	E	L	H	D	C	K	P	B	A	O	F	G	T	O-RING AS568
LL-15W	ø21.7	46	54	17.5	38.1	20	20	22.2	13	19	32	37	26.75	M8 _{ø9}	-211
LL-20W	ø27.2	52	65	22.2	47.6	24	24	27.7	19	19	38	38	31.52	M10	-214
LL-25W	ø34.0	60	70	26.2	52.4	28	28	34.5	25	19	44	43	39.45	ø11	-219
LL-32W	ø42.7	73	79	30.2	58.7	34	34	43.2	32	22	52	51	50.62		-222
LL-40W	ø48.6	82	94	35.7	69.9	38	38	49.1	38	24	58	56	56.97	M12	-225
LL-50W	ø60.5	94	102	42.9	77.8	42	42	61.0	51	30	72	65	66.50	ø13.5	-228

6000PSI															
형 식	적용PIPE	E	L	H	D	C	K	P	B	A	O	F	G	T	O-RING AS568
KH-15S	ø17.3	46	54	18.2	40.5	20	20	22.2	13	19	32	37	26.75	M8 _{ø9}	-211
KH-20S	ø27.2	55	71	23.8	50.8	28	28	27.7	19	22	38	43	31.52	M10 _{ø11}	-214
KH-25S	ø34.0	65	81	27.8	57.2	34	34	34.5	25	24	44	51	39.45	M12 _{ø13.5}	-219
KH-32S	ø42.7	78	94	31.8	66.7	38	38	43.2	32	25	55	56	50.62	M14 _{ø15.5}	-222
KH-40S	ø48.6	94	112	36.5	79.4	42	42	49.1	38	28	60	65	56.97	M16 _{ø17.5}	-225

- NOTE : 1. T는 O-RING GROOVE가 있는 경우 DRILL HOLE가공을, O-RING GROOVE가 없을 경우 TAP가공을 원칙으로 함.
 2. 주문방법 /LL-15WQ → O-RING GROOVE : O, NONE GROOVE : N
 3. 상기 이외에 주문제작도 가능함.

SHINILACE SQUARE FLANGE TYPE

WELD ON RECTANGLE FLANGE - 90°



O-RING GROOVE 상세도

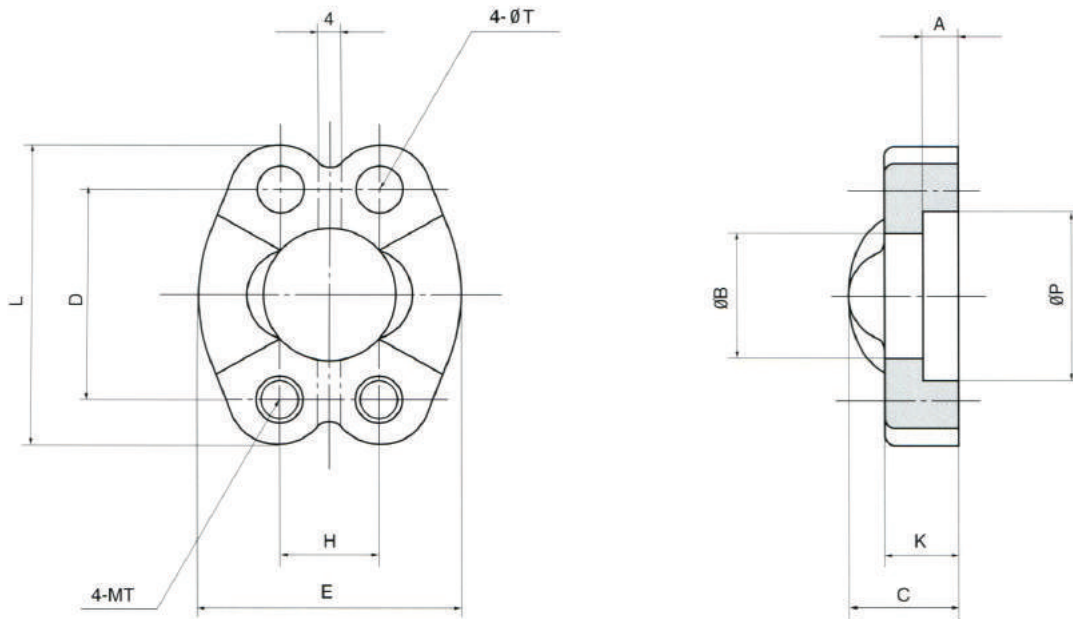
3000PSI														
종 식	NORMAL SIZE		E	L	H	D	C	K	P	B	F	G	T	O-RING AS568
	FLANGE	PIPE												
ML-15W	15A	21.7	34	54	17.5	38.1	20	20	22.2	13	37	26.75	M8 ^{ø9}	-211
ML-20W	20A	27.2	42	68	22.2	47.6	24	24	27.7	19	41	31.52	M10 ^{ø11}	-214
ML-25W	25A	34.0	48	72	26.2	52.4	28	28	34.5	23	44	39.45		-219
ML-32W	32A	42.7	56	79	30.2	58.7	34	34	43.2	31	48	50.62	M12 ^{ø13.5}	-222
ML-40W	40A	48.6	64	94	35.7	69.9	38	38	49.1	35	52	56.97		-225
ML-50W	50A	60.5	72	102	42.9	77.8	42	42	61.0	48	56	66.50		-228

6000PSI														
종 식	NORMAL SIZE		E	L	H	D	C	K	P	B	F	G	T	O-RING AS568
	FLANGE	PIPE												
MH-15W	15A	21.7	34	54	18.2	40.5	20	20	22.2	13	37	26.75	M8 ^{ø9}	-211
MH-20W	20A	27.2	48	71	23.8	50.8	28	28	27.7	19	44	31.52	M10 ^{ø11}	-214
MH-25W	25A	34.0	54	81	27.8	57.2	34	34	34.5	25	47	39.45	M12 ^{ø13.5}	-219
MH-32W	32A	42.7	60	94	31.8	66.7	38	38	43.2	32	50	50.62	M14 ^{ø15.5}	-222
MH-40W	40A	48.6	70	112	36.5	79.4	42	42	49.1	38	55	56.97	M16 ^{ø17.5}	-225

NOTE : 1. T는 O-RING GROOVE가 있는 경우 DRILL HOLE가공을, O-RING GROOVE가 없을 경우 TAP가공을 원칙으로 함.
 2. 주문방법 /ML-15WQ → O-RING GROOVE : O, NONE GROOVE : N
 3. 상기 이외에 주문제작도 가능함.

SHINILACE SQUARE FLANGE TYPE

SPLIT FLANGE



3000PSI

형 식	SIZE	E	L	H	D	C	K	P	B	A	T
NL-15	15A	46	54	17.5	38.1	19	13	31.0	24.3	6.2	M8 $\phi 8.5$
NL-20	20A	52	65	22.2	47.6	22	14	38.9	32.1	6.2	M8
NL-25	25A	60	70	26.2	52.4	24	16	45.2	38.5	7.5	$\phi 10.5$
NL-32	32A	73	79	30.2	58.7	22	14	51.6	43.7	7.5	M12
NL-40	40A	82	94	35.7	69.9	25	16	61.1	50.8	7.5	$\phi 12.5$
NL-50	50A	94	102	42.9	77.8	26	16	72.2	62.7	9.0	M16
NL-65	65A	106	114	50.8	88.9	38	19	84.9	74.9	9.0	$\phi 16.5$
NL-80	80A	130	135	61.9	106.4	41	22	102.4	90.9	9.0	M16
NL-90	90A	136	152	69.9	120.7	45	24	115.3	102.3	10.8	$\phi 16.5$
NL-100	100A	146	162	77.8	130.2	45	24	128.4	115.3	10.8	$\phi 16.5$

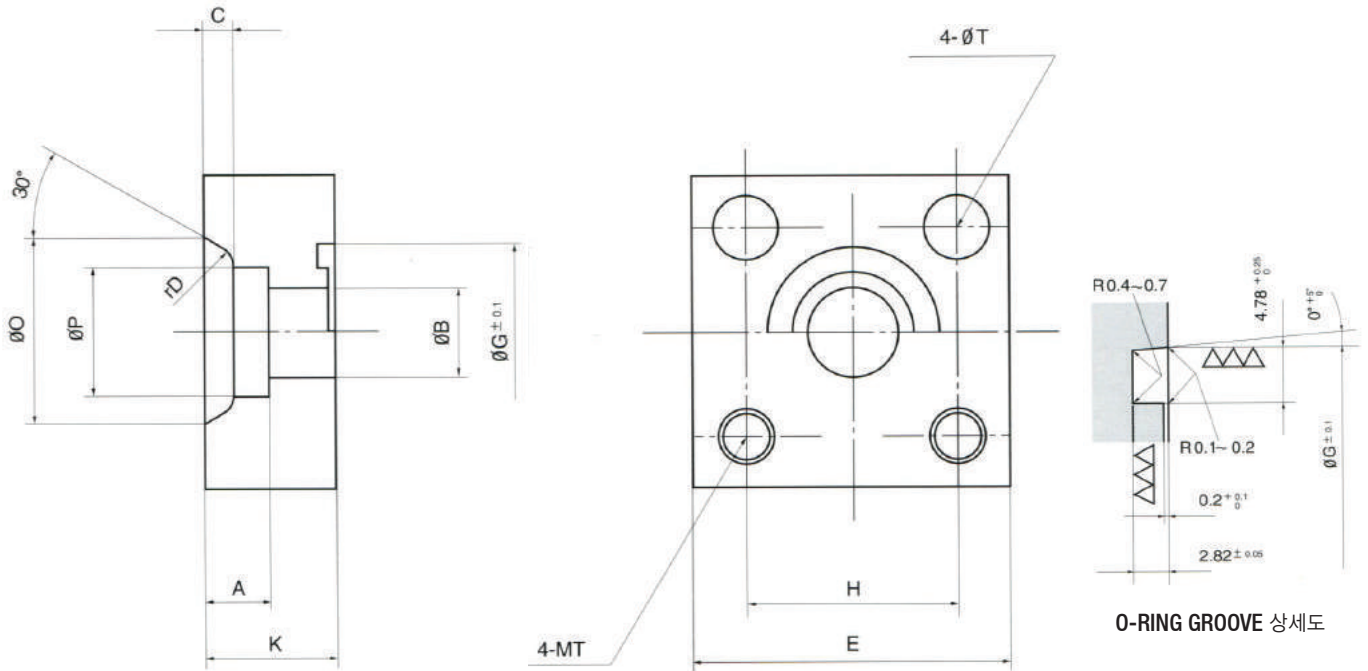
6000PSI

형 식	SIZE	E	L	H	D	C	K	P	B	A	T
NH-15	15A	46	54	18.2	40.5	22	16	32.5	24.6	7.2	M8 $\phi 8.5$
NH-20	20A	55	71	23.8	50.8	23	19	42.0	32.5	8.3	M10 $\phi 10.5$
NH-25	25A	65	81	27.8	57.2	33	24	48.4	38.9	9.0	M12 $\phi 12.5$
NH-32	32A	78	94	31.8	66.7	38	27	54.8	44.5	9.8	M14 $\phi 14.5$
NH-40	40A	94	112	36.5	79.4	43	30	64.3	51.6	12.1	M16 $\phi 16.5$
NH-50	50A	114	134	44.5	96.8	52	37	80.2	67.6	12.1	M20 $\phi 20.5$

NOTE : 1. 상기 이외에 주문제작도 가능함.

2. 주문방법 /NL-15T → TAP : T, BOLT HOLE : H

SQUARE FLANGE - SOCKET WELD



KS SHA 및 SHB

형 식	적용PIPE	E	H	D	C	K	P	B	A	O	G	T	O-RING AS568	
SHA-15	21.7	63	40	5	3.5	22	22.2	16	11	32	30	M10	G25	
SHA-20	27.2	68	45	5	4.0	22	27.7	20	12	38	35	ø11	G30	
SHA-25	34.0	80	53	5	4.0	28	34.5	25	14	45	40	M12	G35	
SHA-32	42.7	90	63	5	6.0	28	43.2	31.5	16	56	45	ø13.5	G40	
SHA-40	48.6	100	70	5	7.0	36	49.1	37.5	18	63	55	M16	G50	
SHA-50	60.5	112	80	5	7.0	36	61.1	47.5	20	75	65	ø17.5	G60	
SHA-65	76.3	140	100	5	9.5	45	77.1	60	22	95	80	M20	ø22	G75
SHA-80	89.1	155	112	6	11.0	45	90.0	71	25	108	90	M22	ø24	G85

KS SSA 및 SSB

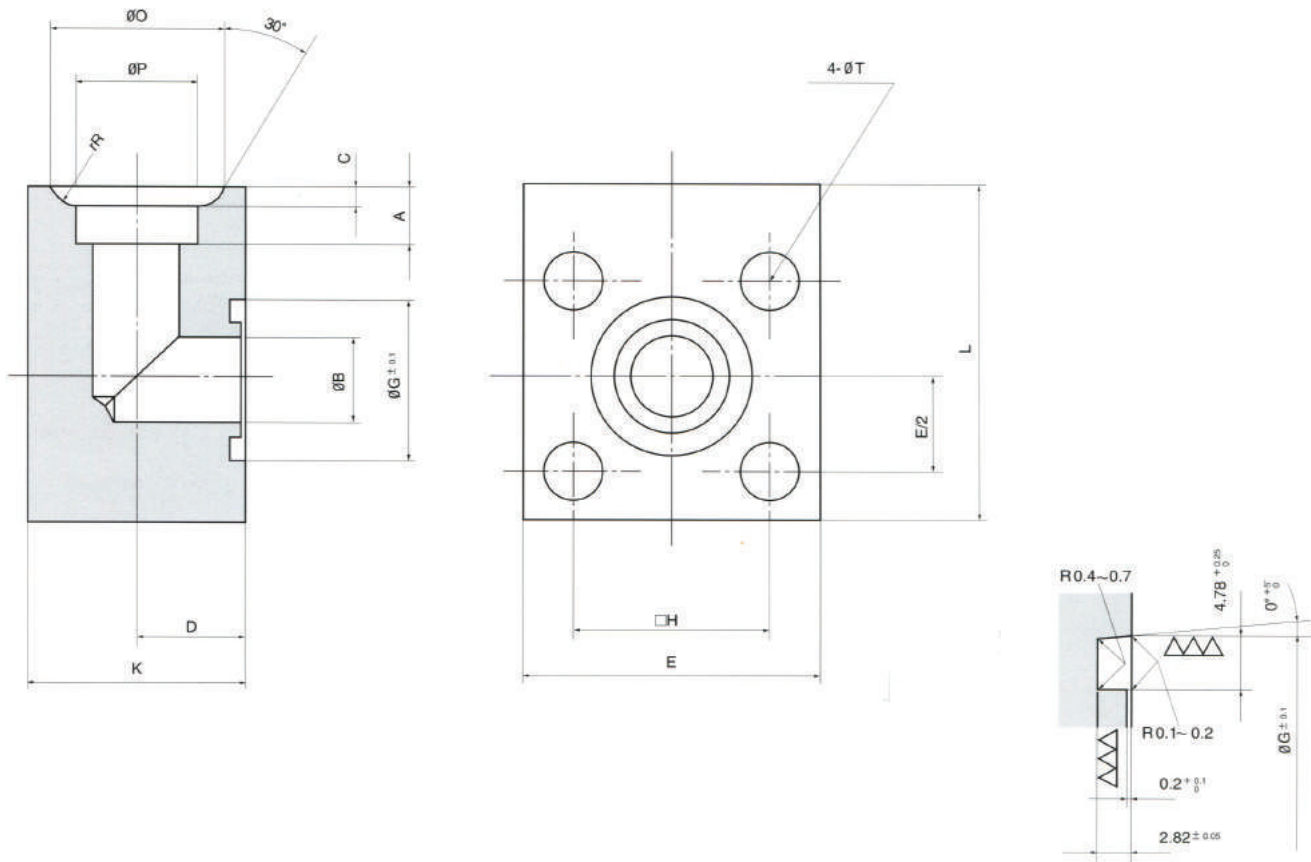
형 식	적용PIPE	E	H	D	C	K	P	B	A	O	G	T	O-RING AS568
SSA-15	21.7	54	36	5	3.5	22	22.2	16	11	32	30	M10	G25
SSA-20	27.2	58	40	5	4.0	22	27.7	20	12	38	35	ø11	G30
SSA-25	34.0	68	48	5	4.0	28	34.5	25	14	45	40	M12	G35
SSA-32	42.7	76	56	5	6.0	28	43.2	31.5	16	56	45	ø13.5	G40
SSA-40	48.6	92	65	5	7.0	36	49.1	37.5	18	63	55	M16	G50
SSA-50	60.5	100	73	5	7.0	36	61.1	47.5	20	75	65	ø17.5	G60
SSA-65	76.3	128	92	5	9.5	45	77.1	60	22	95	80	M20 ø22	G75
SSA-80	89.1	140	103	6	11.0	45	90.0	71	25	108	90	M22 ø24	G85

NOTE : 1. 상기 이외에 주문제작도 가능함.

2. 주문방법 /SHA-15 → O-RING GROOVE TYPE, BOLT HOLE TYPE
SHE-15 → NONE O-RING GROOVE, TOP TYPE } SSA 및 SSB도 동일함.

SHINILACE SQUARE FLANGE TYPE

ELBOW FLANGE



O-RING GROOVE 상세도

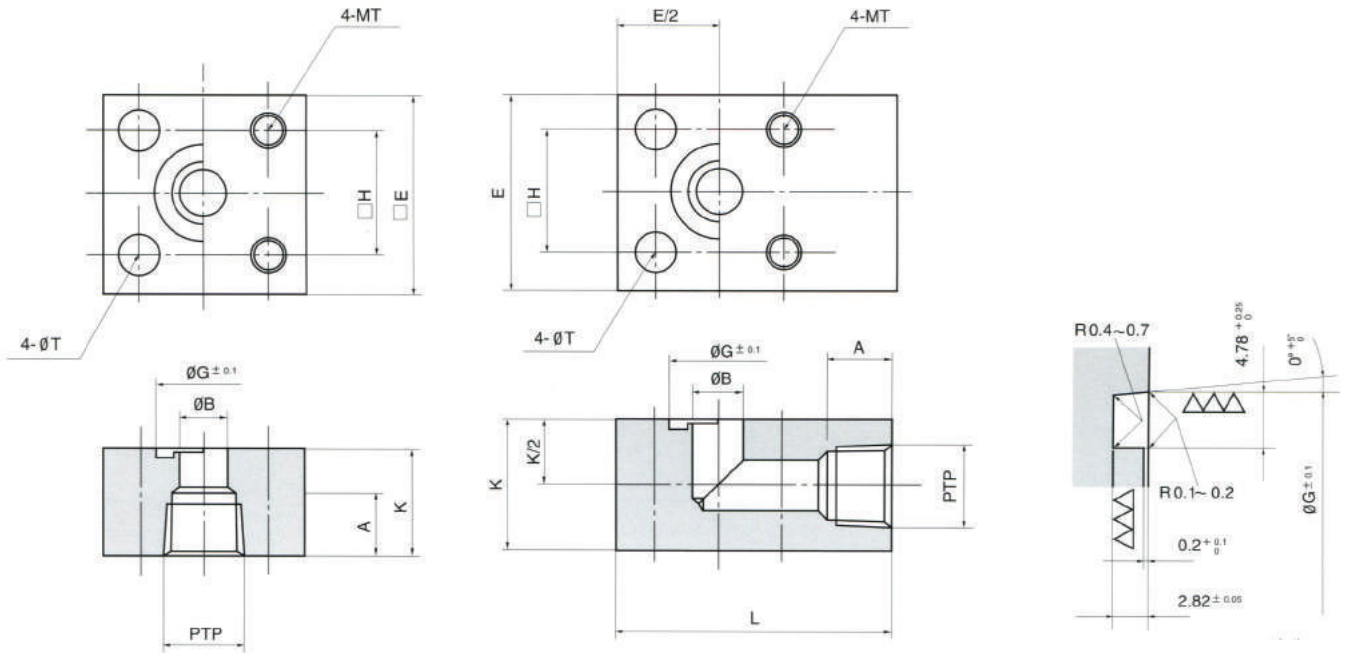
ELBOW FLANGE - SOCKET WELD

형 식	적용PIPE	E	L	H	D	C	K	P	B	A	R	O	G	T	O-RING KS-1B
LSA-15	21.7	54	63	36	20	40	40	22.2	16	11	5	32	30	ø11	G25
LSA-20	27.2	58	70	40	22.5	45	45	27.7	20	12	5	38	35	ø13	G30
LSA-25	34.0	68	82	48	25	50	50	34.5	25	14	5	45	40		G35
LSA-32	42.7	76	92	56	31.5	63	63	43.2	31.5	16	5	56	45		G40
LSA-40	48.6	92	110	65	35.5	71	71	49.1	37.5	18	5	63	55	ø17.5	G50
LSA-50	60.5	100	125	73	42.5	85	85	61.1	47.5	20	5	75	65		G60
LSA-65	76.3	128	150	92	53	106	106	77.1	60	22	5	95	80	ø20	G75
LSA-80	89.1	140	170	103	59	118	118	90.0	71	25	6	108	90	ø24	G85

NOTE : 1. 상기 이외에 주문제작도 가능함.

2. 주문방법 /LSA-15

SQUARE & ELBOW FLANGE - THREAD TYPE



O-RING GROOVE 상세도

SQUARE THREAD FLANGE - BSPT

형 식	NORMAL SIZE		E		H	K	P	B	A	G	T	O-RING AS568
	FLANGE	PIPE										
SQ-15T	15A	21.7	58		36.6	32	1/2"	13	19	26.75	M10	-211
SQ-20T	20A	27.2	58		36.6	32	3/4"	19	19	31.52	ø11	-214
SQ-25T	25A	34.0	76		50.8	38	1"	25	19	39.45	M12	-219
SQ-32T	32A	42.7	76		50.8	38	1 1/4"	32	22	50.62	ø13.5	-222
SQ-40T	40A	48.6	102		69.8	45	1 1/2"	38	24	56.97	M16	-225
SQ-50T	50A	60.5	102		69.8	45	2"	51	30	66.50	ø17.5	-228
SQ-65T	65A	76.3	140		95.2	57	2 1/2"	63	30	82.37	M22	-232
SQ-80T	80A	89.1	140		95.2	57	3"	73	34	95.07	ø24	-237

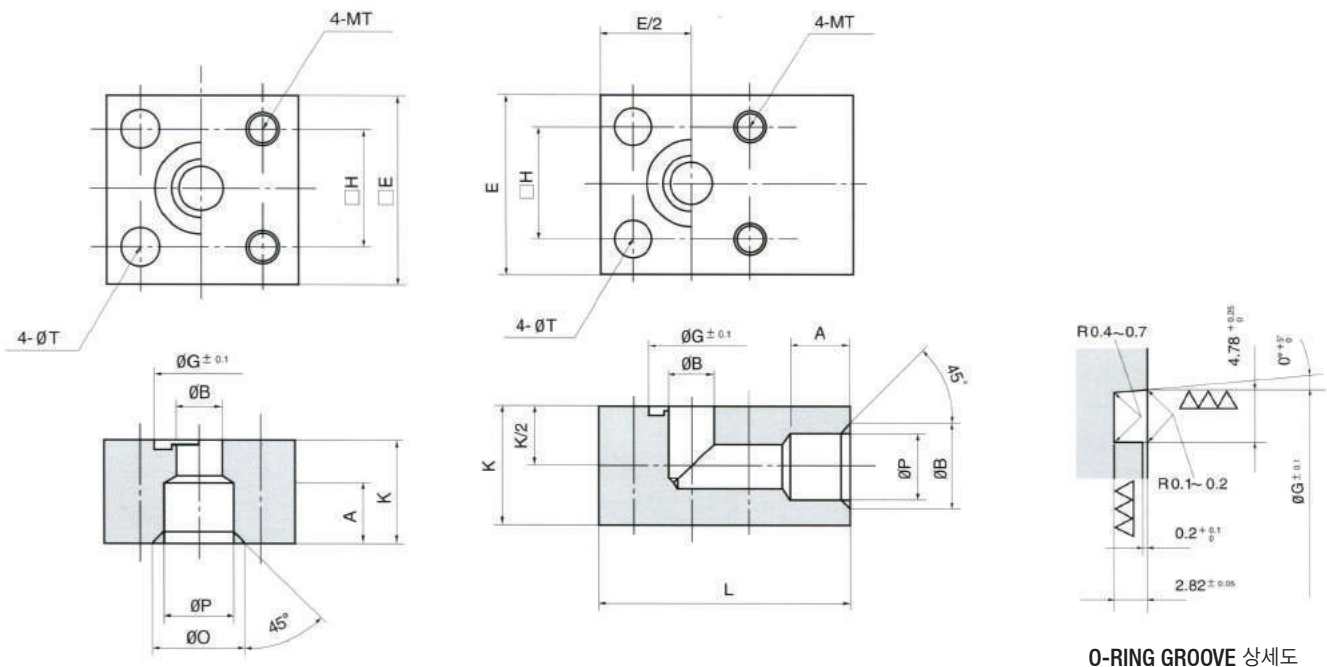
THREAD FLANGE - 90°BSPT

형 식	NORMAL SIZE		E		H	K	P	B	A	G	T	O-RING AS568
	FLANGE	PIPE										
ST-15T	15A	21.7	58	80	36.6	38	1/2"	13	19	26.75	M10	-211
ST-20T	20A	27.2	58	80	36.6	36	3/4"	19	19	31.52	ø11	-214
ST-25T	25A	34.0	76	105	50.8	51	1"	25	25.5	39.45	M12	-219
ST-32T	32A	42.7	76	105	50.8	51	1 1/4"	32	25.5	50.62	ø13.5	-222
ST-40T	40A	48.6	102	130	69.8	76	1 1/2"	38	38	56.97	M16	-225
ST-50T	50A	60.5	102	130	69.8	76	2"	51	38	66.50	ø17.5	-228
ST-65T	65A	76.3	140	181	95.2	102	2 1/2"	63	51	82.37	M22	-232
ST-80T	80A	89.1	140	181	95.2	102	3"	73	51	95.07	ø24	-237

- NOTE : 1. T는 O-RING GROOVE가 있는 경우 DRILL HOLE가공을, O-RING GROOVE가 없을 경우 TAP가공을 원칙으로 함.
 2. 주문방법 /SQ-15T O → O-RING GROOVE : O, NONE GROOVE : N
 3. 상기 이외에 주문제작도 가능함.

SHINILACE SQUARE FLANGE TYPE

SQUARE & ELBOW FLANGE - SOCKET WELD TYPE



O-RING GROOVE 상세도

SQUARE SOCKET WELD FLANGE

형 식	NORMAL SIZE		E	L	H	O	K	P	B	A	G	T	O-RING AS568
	FLANGE	PIPE											
SQ-15S	15A	21.7	58		36.6	30.2	18	22.2	13	13.5	26.75	M10	-211
SQ-20S	20A	27.2	58		36.6	35.7	18	27.7	19	13.5	31.52	ø11	-214
SQ-25S	25A	34.0	76		50.8	42.5	25	34.5	25	16	39.45	M12	-219
SQ-32S	32A	42.7	76		50.8	51.2	25	43.2	32	16	50.62	ø13.5	-222
SQ-40S	40A	48.6	102		69.8	61.2	31	49.2	38	22	56.97	M16	-225
SQ-50S	50A	60.5	102		69.8	73.1	31	61.1	51	22	66.50	ø17.5	-228
SQ-65S	65A	76.3	140		95.2	89.1	38	77.1	63	27	82.37	M22	-232
SQ-80S	80A	89.1	140		95.2	102	38	90	73	27	95.07	ø24	-237

SOCKET WELD FLANGE - 90°

형 식	NORMAL SIZE		E	L	H	O	K	P	B	A	G	T	O-RING AS568
	FLANGE	PIPE											
SL-15S	15A	21.7	58	80	36.6	30.2	38	22.2	13	13.5	26.75	M10	-211
SL-20S	20A	27.2	58	80	36.6	35.7	42	27.7	19	13.5	31.52	ø11	-214
SL-25S	25A	34.0	76	105	50.8	42.5	51	34.5	25	16	39.45	M12	-219
SL-32S	32A	42.7	76	105	50.8	51.2	59	43.2	32	16	50.62	ø13.5	-222
SL-40S	40A	48.6	102	130	69.8	61.2	76	49.2	38	22	56.97	M16	-225
SL-50S	50A	60.5	102	130	69.8	73.1	76	61.1	51	22	66.50	ø17.5	-228
SL-65S	65A	76.3	140	181	95.2	89.1	102	77.1	63	27	82.37	M22	-232
SL-80S	80A	89.1	140	181	95.2	102	124	90	73	27	95.07	ø24	-237

- NOTE : 1. T는 O-RING GROOVE가 있는 경우 DRILL HOLE가공을, O-RING GROOVE가 없을 경우 TAP가공을 원칙으로 함.
 2. 주문방법 /SL-15S O → O-RING GROOVE : O, NONE GROOVE : N
 3. 상기 이외에 주문제작도 가능함.



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