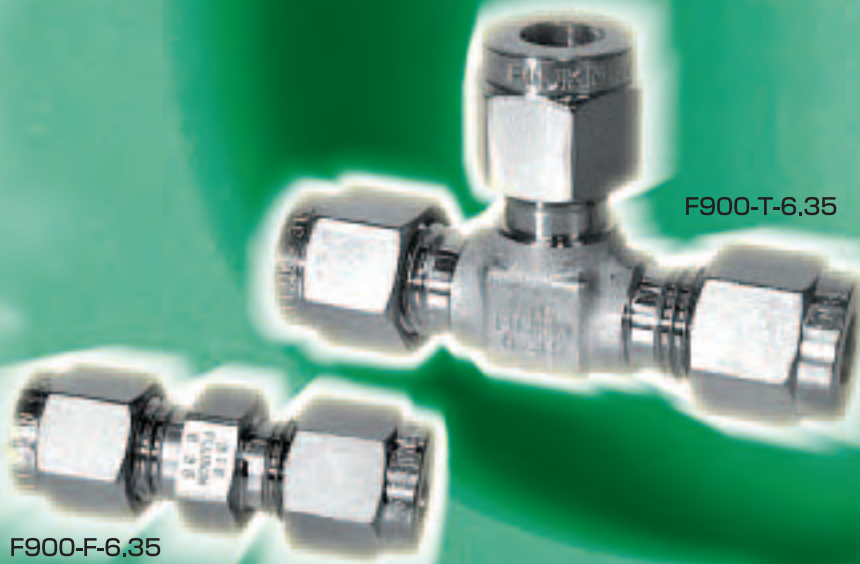


FINE series PURE

F900 Fitting series

FINELOK·PURE



F900-F-6,35

F900-T-6,35

Safety & Clean Technology

Fujikin Incorporated

Persuading the Ultimate in Reliability: The Fujikin F900 Fitting Series

The Fujikin FINELOK-PURE® series are high-performance, high-quality tube fittings. They are produced by making full use of design know-how and manufacturing technology Fujikin has accumulated throughout the years as an experienced precision fitting manufacturer.

The FINELOK-PURE® series are flareless type precision tube fittings that effectively create connections without the need for thread cutting or tube flaring.

The fundamental design consists of four stainless steel components: body, front ferrule, back ferrule, and nut.



F900 Fitting Series

Male Connector (R Thread)5	Bulkhead Female Connector (Rc Thread)8	Elbow Reducing Union 12	Male Run Tee (NPT Thread)15
Male Connector (NPT Thread)5	Bulkhead Female Connector (NPT Thread)8	Tee Union12	Cap Union16
Thermocouple-Type Male Connector (R Thread)5	Reducer9	Reducing Tee Union12	Plug Union16
O-Ring Type Male Connector (UNF Thread)6	Bulkhead Reducer Union9	Cross Union12	Port Connector16
Bulkhead Male Connector (R Thread)6	Reducer Union (Socket Weld)9	Female Branch Tee (G Thread)13	Front Ferrule Back Ferrule16
Bulkhead Male Connector (NPT Thread)6	Reducer Union (Butt Weld)9	Female Branch Tee (Rc Thread)13	Nut16
Straight Union6	Elbow Union10	Female Branch Tee (NPT Thread)13	Tube Adapter (R Thread)17
Reducing Union7	Male Elbow (R Thread)10	Female Run Tee (Rc Thread)14	Tube Adapter (NPT Thread)17
Bulkhead Union7	Male Elbow (NPT Thread)10	Female Run Tee (NPT Thread)14	Male Tube Adapter (G Thread)17
Female Connector (G Thread)7	Female Elbow (Rc Thread)11	Male Branch Tee (R Thread)14	O-Ring Type Tube Adapter (UNF Thread)18
Female Connector (Rc Thread)7	Female Elbow (NPT Thread)11	Male Branch Tee (NPT Thread)15	Tube Gauge Adapter (Rc Thread)18
Female Connector (NPT Thread)8	Elbow Reducing Union (Socket Weld)11	Male Run Tee (R Thread)15	Tube Gauge Adapter (NPT Thread)18



FEATURES

The tube size is stamped on the side of the body allowing for quick identification

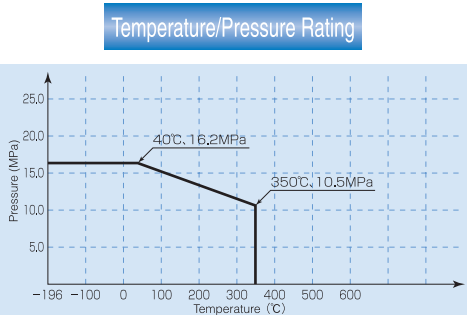
The body sealing area features an ultra-precise finish to ensure high sealing performance on a metal-to-metal seal.

Both ferrules are engineered to take full advantage of plastic deformation, and to tightly clamp the tube to yield a highly reliable seal.

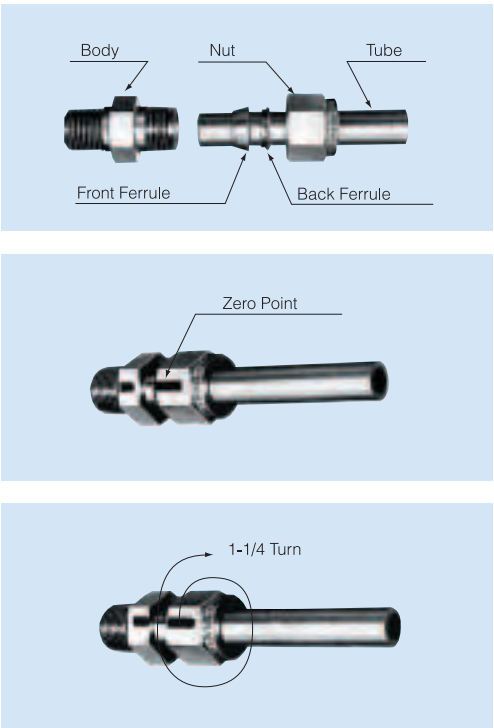
Galling is eliminated by silver-plating the nut threads.

SPECIFICATIONS AND MATERIALS

SPECIFICATION	Design Pressure	16.2MPa (2,350 psi)
	Temperature Range	−196~350 °C (−320~660 °F)
MATERIALS	Nut	SUS316
	Body	SUS316
	Front ferrule	SUS316
	Back ferrule	SUS316



ASSEMBLY



- ① Confirm all components have been assembled in the correct order - as shown on the schematic to the left.
- ② Insert the tube completely until it makes contact with the body. Hand tighten the nut until it cannot be tightened further. Scribe a mark on both the body and nut - this will be your zero reference point.
- ③ Using a wrench, finish tightening the assembly by turning the nut 1-1/4 turn.

Complete!

PART NUMBER DESIGNATION

F900 part numbers are outlined below. Please specify the correct part number on all inquiries.

F900 Part Number Designation

F900 - H - 6.35 B

FINelok-PURE® 900 series Connection Type Nominal Tube Diameter Thread Size

◆ CONNECTION TYPE

H	Male Connector	TS	Male Branch Tee
F	Straight Union	TG	Female Branch Tee
G	Female Connector	TLG	Female Run Tee
P	Bulkhead Union	HP	Bulkhead Male Connector
R	Reducer	GP	Bulkhead Female Connector
L	Elbow Union	X	Cross Union
LG	Female Elbow	JP	Plug Union
T	Tee Union	JC	Cap Union
TL	Male Run Tee	PC	Port Connector
		RP	Bulkhead Reducer Union
		LR	Elbow Reducer Union
		AT	Tube Adapter
		ATG	Tube Gauge Adapter

◆ THREAD SIZE

TAPERED THREAD*	SPECIFICATION	A	B	C	D
	JIS B0203(1981)	PT1/8	PT1/4	PT3/8	PT1/2
	JIS B0203 (1982)	External R1/8	R1/4	R3/8	R1/2
		Internal Rc1/8	Rc1/4	Rc3/8	Rc1/2
TAPERED THREAD	SPECIFICATION	AN	BN	CN	DN
	ANSI B1.20.1	1/8NPT	1/4NPT	3/8NPT	1/2NPT

*Thread specifications conform to JIS B0203 (1982) and JIS B0202 (1982).

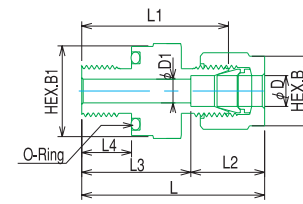
PARALLEL THREAD	SPECIFICATION	AF	BF	CF	DF
	JIS B0202(1981)	PF1/8	PF1/4	PF3/8	PF1/2
	JIS B0202(1982)	G1/8	G1/4	G3/8	G1/2

TUBING DIMENSIONS

TUBE NOMINAL DIAMETER	3.2 indicates 1/8 ^{OD}
	6.35 indicates 1/4 ^{OD}
	9.52 indicates 3/8 ^{OD}
	12.7 indicates 1/2 ^{OD}

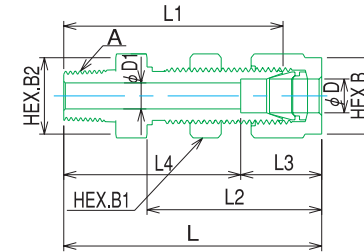
Unit : mm)

O-Ring Type Male Connector



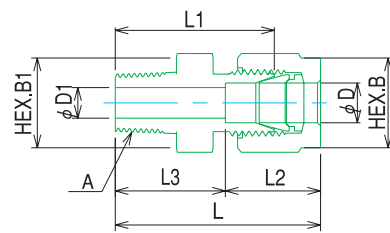
φD Nom.	A	φD1	B	B1	L	L1	L2	L3	L4	O-Ring Size	Part Number
3.2	5/16-24UNF	2.7	10	14	32.5	26	13	19.5	8.5	P8	F900-H-3.2×5/16-24-OR
6.35	7/16-20UNF	5	14	19	38	31	15	23	10.5	P12.5	F900-H-6.35×7/16-20-OR
9.52	9/16-18UNF	7.5	17	26	42	34	17.5	24.5	12	P18	F900-H-9.52×9/16-18-OR
12.7	3/4-16UNF	10	22	29	47	36	24	23	12	P21	F900-H-12.7×3/4-16-OR

Bulkhead Male Connector (R Thread)



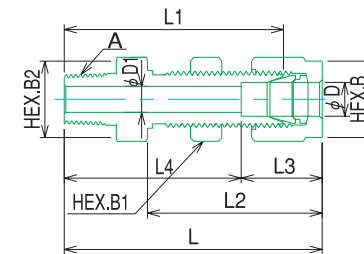
φ D Nom.	A	Panel Hole Dia	φ D1	B	B1	B2	L	L1	L2	L3	L4	Part Number
3.2	R1/8	8	2.7	10	12	12	44	37.5	29	13	31	F900-HP-3.2A
3.2	R1/4	8	2.7	10	12	14	47	40.5	29	13	34	F900-HP-3.2B
6.35	R1/8	11.2	5	14	14	14	49	42	33	15	34	F900-HP-6.35A
6.35	R1/4	11.2	5	14	14	14	52	45	33	15	37	F900-HP-6.35B
6.35	R3/8	11.2	5	14	14	17	53	46	33	15	38	F900-HP-6.35C
6.35	R1/2	11.2	5	14	14	22	58	51	33	15	43	F900-HP-6.35D
9.52	R1/8	14.3	5	17	19	19	54	46	37	17.5	36.5	F900-HP-9.52A
9.52	R1/4	14.3	7.5	17	19	19	57	49	37	17.5	39.5	F900-HP-9.52B
9.52	R3/8	14.3	7.5	17	19	19	58	50	37	17.5	40.5	F900-HP-9.52C
9.52	R1/2	14.3	7.5	17	19	22	62	54	37	17.5	44.5	F900-HP-9.52D
12.7	R1/8	19.1	5	22	23	23	59	48	40.5	24	35	F900-HP-12.7A
12.7	R1/4	19.1	7.5	22	23	23	62	51	40.5	24	38	F900-HP-12.7B
12.7	R3/8	19.1	10	22	23	23	63	52	40.5	24	39	F900-HP-12.7C
12.7	R1/2	19.1	10	22	23	23	66	55	40.5	24	42	F900-HP-12.7D

Male Connector (NPT)



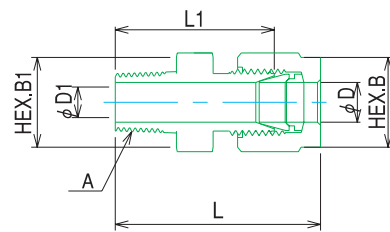
ϕ D Nom.	A	ϕ D1	B	B1	L	L1	L2	L3	Part Number
3.2	1/8NPT	2.7	10	12	30	23.5	13	17	F900-H-3.2AN
3.2	1/4NPT	2.7	10	14	33	26.5	13	20	F900-H-3.2BN
6.35	1/8NPT	5	14	14	33	26	15	18	F900-H-6.35AN
6.35	1/4NPT	5	14	14	36	29	15	21	F900-H-6.35BN
6.35	3/8NPT	5	14	19	37	30	15	22	F900-H-6.35CN
6.35	1/2NPT	5	14	22	42	35	15	27	F900-H-6.35DN
9.52	1/8NPT	5	17	17	36	28	17.5	18.5	F900-H-9.52AN
9.52	1/4NPT	7.5	17	17	39	31	17.5	21.5	F900-H-9.52BN
9.52	3/8NPT	7.5	17	19	40	32	17.5	22.5	F900-H-9.52CN
9.52	1/2NPT	7.5	17	22	44	36	17.5	26.5	F900-H-9.52DN
12.7	1/8NPT	5	22	22	41.5	30.5	24	17.5	F900-H-12.7AN
12.7	1/4NPT	7.5	22	22	44.5	33.5	24	20.5	F900-H-12.7BN
12.7	3/8NPT	10	22	22	45.5	34.5	24	21.5	F900-H-12.7CN
12.7	1/2NPT	10	22	22	48.5	37.5	24	24.5	F900-H-12.7DN

Bulkhead Male Connector (NPT)



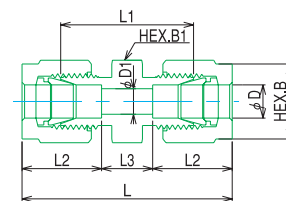
φD Nom.	A	Panel Hole Dia	φD1	B	B1	B2	L	L1	L2	L3	L4	Part Number
3.2	1/8NPT	8	2.7	10	12	12	44	37.5	29	13	31	F900-HP-3.2AN
3.2	1/4NPT	8	2.7	10	12	14	47	40.5	29	13	34	F900-HP-3.2BN
6.35	1/8NPT	11.2	5	14	14	14	49	42	33	15	34	F900-HP-6.35AN
6.35	1/4NPT	11.2	5	14	14	14	52	45	33	15	37	F900-HP-6.35BN
6.35	3/8NPT	11.2	5	14	14	19	53	46	33	15	38	F900-HP-6.35CN
6.35	1/2NPT	11.2	5	14	14	22	58	51	33	15	43	F900-HP-6.35DN
9.52	1/8NPT	14.3	5	17	19	19	54	46	37	17.5	36.5	F900-HP-9.52AN
9.52	1/4NPT	14.3	7.5	17	19	19	57	49	37	17.5	39.5	F900-HP-9.52BN
9.52	3/8NPT	14.3	7.5	17	19	19	58	50	37	17.5	40.5	F900-HP-9.52CN
9.52	1/2NPT	14.3	7.5	17	19	22	62	54	37	17.5	44.5	F900-HP-9.52DN
12.7	1/8NPT	19.1	5	22	23	23	59	48	40.5	24	35	F900-HP-12.7AN
12.7	1/4NPT	19.1	7.5	22	23	23	62	51	40.5	24	38	F900-HP-12.7BN
12.7	3/8NPT	19.1	10	22	23	23	63	52	40.5	24	39	F900-HP-12.7CN
12.7	1/2NPT	19.1	10	22	23	23	66	55	40.5	24	42	F900-HP-12.7DN

Thermocouple-Type Male Connector (R Thread)



ϕ D Nom.	A	ϕ D1	B	B1	L	L1	Part Number
3.2	R1/8	3.3	10	12	30	23.5	F900-H-3.2A-TC
3.2	R1/4	3.3	10	14	33	26.5	F900-H-3.2B-TC
6.35	R1/4	6.5	14	14	36	29	F900-H-6.35B-TC
6.35	R3/8	6.5	14	17	37	30	F900-H-6.35C-TC
6.35	R1/2	6.5	14	22	42	35	F900-H-6.35D-TC
9.52	R3/8	9.7	17	17	40	32	F900-H-9.52C-TC
9.52	R1/2	9.7	17	22	44	36	F900-H-9.52D-TC
12.7	R1/2	12.9	22	22	48.5	37.5	F900-H-12.7D-TC

Straight Union



ϕ D Nom.	ϕ D1	B	B1	L	L1	L2	L3	Part Number
3.2	2.7	10	10	35	22	13	9	F900-F-3.2
6.35	5	14	14	40	26	15	10	F900-F-6.35
9.52	7.5	17	17	45	29	17.5	10	F900-F-9.52
12.7	10	22	22	54.5	32.5	24	6.5	F900-F-12.7

φD Nom.	A	φD1	B	B1	L	L1	L2	L3	Part Number
3.2	Rc1/8	2.7	10	14	29	22.5	13	16	F900-G-3.2A
3.2	Rc1/4	2.7	10	17	32	25.5	13	19	F900-G-3.2B
6.35	Rc1/8	5	14	14	31	24	15	16	F900-G-6.35A
6.35	Rc1/4	5	14	17	34	27	15	19	F900-G-6.35B
6.35	Rc3/8	5	14	21	36	29	15	21	F900-G-6.35C
6.35	Rc1/2	5	14	26	40	33	15	25	F900-G-6.35D
9.52	Rc1/8	7	17	17	33	25	17.5	15.5	F900-G-9.52A
9.52	Rc1/4	7.5	17	17	36	28	17.5	18.5	F900-G-9.52B
9.52	Rc3/8	7.5	17	21	38	30	17.5	20.5	F900-G-9.52C
9.52	Rc1/2	7.5	17	26	42	34	17.5	24.5	F900-G-9.52D
12.7	Rc1/8	7	22	22	37	26	24	13	F900-G-12.7A
12.7	Rc1/4	10	22	22	40	29	24	16	F900-G-12.7B
12.7	Rc3/8	10	22	22	42	31	24	18	F900-G-12.7C
12.7	Rc1/2	10	22	26	46	35	24	22	F900-G-12.7D

φD Nom.	A	φD1	B	B1	L	L1	L2	L3	Part Number
3.2	1/8NPT	2.7	10	14	29	22.5	13	16	F900-G-3.2AN
3.2	1/4NPT	2.7	10	17	32	25.5	13	19	F900-G-3.2BN
6.35	1/8NPT	5	14	14	31	24	15	16	F900-G-6.35AN
6.35	1/4NPT	5	14	17	34	27	15	19	F900-G-6.35BN
6.35	3/8NPT	5	14	21	36	29	15	21	F900-G-6.35CN
6.35	1/2NPT	5	14	26	40	33	15	25	F900-G-6.35DN
9.52	1/8NPT	7	17	17	33	25	17.5	15.5	F900-G-9.52AN
9.52	1/4NPT	7.5	17	17	36	28	17.5	18.5	F900-G-9.52BN
9.52	3/8NPT	7.5	17	21	38	30	17.5	20.5	F900-G-9.52CN
9.52	1/2NPT	7.5	17	26	42	34	17.5	24.5	F900-G-9.52DN
12.7	1/8NPT	7	22	22	37	26	24	13	F900-G-12.7AN
12.7	1/4NPT	10	22	22	40	29	24	16	F900-G-12.7BN
12.7	3/8NPT	10	22	22	42	31	24	18	F900-G-12.7CN
12.7	1/2NPT	10	22	26	46	35	24	22	F900-G-12.7DN

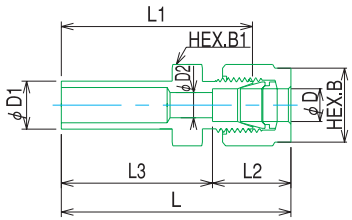
φD Nom.	A	Panel Hole Dia	φD1	B	B1	B2	L	L1	L2	L3	L4	Part Number
3.2	Rc1/8	8	2.7	10	12	14	43	36.5	29	13	30	F900-GP-3.2A
3.2	Rc1/4	8	2.7	10	12	17	46	39.5	29	13	33	F900-GP-3.2B
6.35	Rc1/8	11.2	5	14	14	14	47	40	33	15	32	F900-GP-6.35A
6.35	Rc1/4	11.2	5	14	14	17	50	43	33	15	35	F900-GP-6.35B
6.35	Rc3/8	11.2	5	14	14	21	52	45	33	15	37	F900-GP-6.35C
9.52	Rc1/8	14.3	7	17	19	19	51	43	37	17.5	33.5	F900-GP-9.52A
9.52	Rc1/4	14.3	7.5	17	19	19	54	46	37	17.5	36.5	F900-GP-9.52B
9.52	Rc3/8	14.3	7.5	17	19	21	56	48	37	17.5	38.5	F900-GP-9.52C
12.7	Rc1/8	19.1	7	22	23	23	54.5	43.5	40.5	24	30.5	F900-GP-12.7A
12.7	Rc1/4	19.1	10	22	23	23	57.5	46.5	40.5	24	33.5	F900-GP-12.7B
12.7	Rc3/8	19.1	10	22	23	23	59.5	48.5	40.5	24	35.5	F900-GP-12.7C

φD Nom.	A	Panel Hole Dia	φD1	B	B1	B2	L	L1	L2	L3	L4	Part Number
3.2	1/8NPT	8	2.7	10	12	14	43	36.5	29	13	30	F900-GP-3.2AN
3.2	1/4NPT	8	2.7	10	12	17	46	39.5	29	13	33	F900-GP-3.2BN
6.35	1/8NPT	11.2	5	14	14	14	47	40	33	15	32	F900-GP-6.35AN
6.35	1/4NPT	11.2	5	14	14	17	50	43	33	15	35	F900-GP-6.35BN
6.35	3/8NPT	11.2	5	14	14	21	52	45	33	15	37	F900-GP-6.35CN
9.52	1/8NPT	14.3	7	17	19	19	51	43	37	17.5	33.5	F900-GP-9.52AN
9.52	1/4NPT	14.3	7.5	17	19	19	54	46	37	17.5	36.5	F900-GP-9.52BN
9.52	3/8NPT	14.3	7.5	17	19	21	56	48	37	17.5	38.5	F900-GP-9.52CN
12.7	1/8NPT	19.1	7	22	23	23	54.5	43.5	40.5	24	30.5	F900-GP-12.7AN
12.7	1/4NPT	19.1	10	22	23	23	57.5	46.5	40.5	24	33.5	F900-GP-12.7BN
12.7	3/8NPT	19.1	10	22	23	23	59.5	48.5	40.5	24	35.5	F900-GP-12.7CN



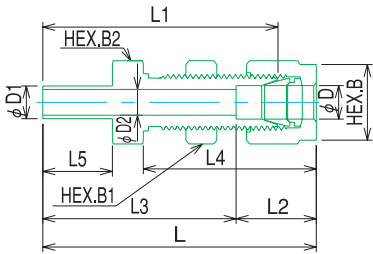
(Unit : mm)

Reducing Union



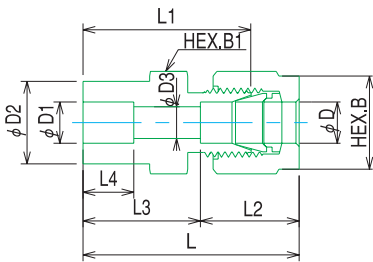
φD Nom.	φD1	φD2	B	B1	L	L1	L2	L3	Part Number
3.2	6.35	2.7	10	10	39	32.5	13	26	F900-R-3.2×6.35
3.2	9.52	2.7	10	10	42	35.5	13	29	F900-R-3.2×9.52
6.35	3.2	2	14	14	39	32	15	24	F900-R-6.35×3.2
6.35	9.52	5	14	14	45	38	15	30	F900-R-6.35×9.52
6.35	12.7	5	14	14	51.5	44.5	15	36.5	F900-R-6.35×12.7
9.52	6.35	4.3	17	17	45	37	17.5	27.5	F900-R-9.52×6.35
9.52	12.7	7.5	17	17	54.5	46.5	17.5	37	F900-R-9.52×12.7
12.7	6.35	4.3	22	22	50.5	39.5	24	26.5	F900-R-12.7×6.35
12.7	9.52	7.5	22	22	53.5	42.5	24	29.5	F900-R-12.7×9.52

Bulkhead Reducing Union



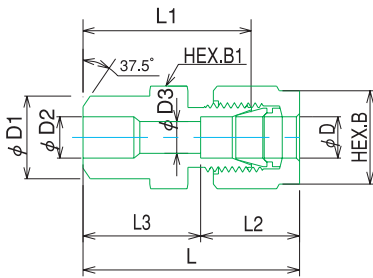
φD Nom.	Panel Hole Dia.	φD1	φD2	B	B1	B2	L	L1	L2	L3	L4	L5	Part Number
3.2	8	3.2	1.8	10	12	12	47.5	41	13	34.5	29	13.5	F900-RP-3.2×3.2
6.35	11.2	6.35	4.5	14	14	14	55	48	15	40	33	16	F900-RP-6.35×6.35
9.52	14.3	9.52	7	17	19	19	62	54	17.5	44.5	37	18	F900-RP-9.52×9.52
12.7	19.1	12.7	10	22	23	23	73.5	62.5	24	49.5	40.5	24.5	F900-RP-12.7×12.7

Socket Weld Reducing Union



φD Nom.	φD1	φD2	φD3	B	B1	L	L1	L2	L3	L4	Part Number
3.2	3.3	8	2.7	10	10	28.5	22	13	15.5	6.5	F900-R-3.2×3.2F
6.35	6.5	13	5	14	14	33.5	26.5	15	18.5	8	F900-R-6.35×6.35F
9.52	9.7	16	7.5	17	17	38	30	17.5	20.5	10	F900-R-9.52×9.52F
12.7	12.9	21	10	22	22	43	32	24	19	13	F900-R-12.7×12.7F

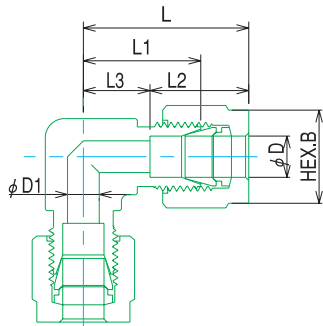
Butt Weld Reducing Union



φD Nom.	φD1	φD2	φD3	B	B1	L	L1	L2	L3	Part Number
3.2	10.3	4.8	2.7	10	12	30	23.5	13	17	F900-R-3.2×10.3M
3.2	13.7	7.1	2.7	10	14	36	29.5	13	23	F900-R-3.2×13.7M
6.35	10.3	4.8	4.8	14	14	33	26	15	18	F900-R-6.35×10.3M
6.35	13.7	7.1	5	14	14	38	31	15	23	F900-R-6.35×13.7M
6.35	17.15	10.4	5	14	19	39	32	15	24	F900-R-6.35×17.15M
9.52	13.7	7.1	7.1	17	17	41	33	17.5	23.5	F900-R-9.52×13.7M
9.52	17.15	10.4	7.5	17	19	41	33	17.5	23.5	F900-R-9.52×17.15M
9.52	21.35	13.2	7.5	17	22	45	37	17.5	27.5	F900-R-9.52×21.35M
12.7	13.7	7.1	7.1	22	22	46.5	35.5	24	22.5	F900-R-12.7×13.7M
12.7	17.15	10.4	10.4	22	22	46.5	35.5	24	22.5	F900-R-12.7×17.15M
12.7	21.35	13.2	10	22	22	49	38	24	25	F900-R-12.7×21.35M

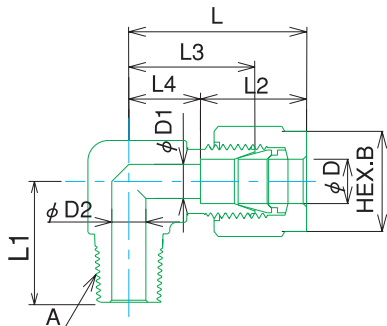
(Unit : mm)

Elbow Union



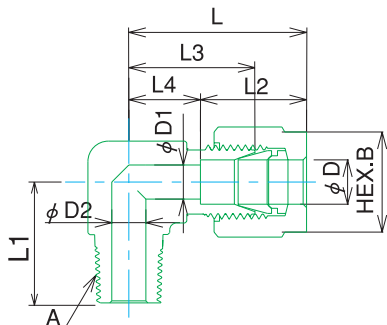
φD Nom.	φD1	B	L	L1	L2	L3	Part Number
3.2	2.7	10	23.5	17	13	10.5	F900-L-3.2
6.35	5	14	25.5	18.5	15	10.5	F900-L-6.35
9.52	7.5	17	30	22	17.5	12.5	F900-L-9.52
12.7	10	22	36	25	24	12	F900-L-12.7

Male Elbow (R Thread)



φD Nom.	A	φD1	φD2	B	L	L1	L2	L3	L4	Part Number
3.2	R1/8	2.7	5	10	23.5	20	13	17	10.5	F900-L-3.2A
3.2	R1/4	2.7	5	10	23.5	22	13	17	10.5	F900-L-3.2B
6.35	R1/8	5	5	14	25.5	20	15	18.5	10.5	F900-L-6.35A
6.35	R1/4	5	5	14	25.5	22	15	18.5	10.5	F900-L-6.35B
6.35	R3/8	5	5	14	29	25	15	22	14	F900-L-6.35C
6.35	R1/2	5	5	14	32	32	15	25	17	F900-L-6.35D
9.52	R1/8	7.5	5	17	30	24	17.5	22	12.5	F900-L-9.52A
9.52	R1/4	7.5	7.5	17	30	24	17.5	22	12.5	F900-L-9.52B
9.52	R3/8	7.5	7.5	17	30	25	17.5	22	12.5	F900-L-9.52C
9.52	R1/2	7.5	7.5	17	33	32	17.5	25	15.5	F900-L-9.52D
12.7	R1/8	10	5	22	36	29	24	25	12	F900-L-12.7A
12.7	R1/4	10	7.5	22	36	29	24	25	12	F900-L-12.7B
12.7	R3/8	10	10	22	36	29	24	25	12	F900-L-12.7C
12.7	R1/2	10	10	22	36	32	24	25	12	F900-L-12.7D

Male Elbow (NPT)

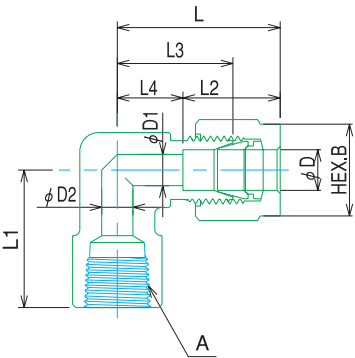


φD Nom.	A	φD1	φD2	B	L	L1	L2	L3	L4	Part Number
3.2	1/8NPT	2.7	5	10	23.5	20	13	17	10.5	F900-L-3.2AN
3.2	1/4NPT	2.7	5	10	23.5	22	13	17	10.5	F900-L-3.2BN
6.35	1/8NPT	5	5	14	25.5	20	15	18.5	10.5	F900-L-6.35AN
6.35	1/4NPT	5	5	14	25.5	22	15	18.5	10.5	F900-L-6.35BN
6.35	3/8NPT	5	5	14	29	25	15	22	14	F900-L-6.35CN
6.35	1/2NPT	5	5	14	32	32	15	25	17	F900-L-6.35DN
9.52	1/8NPT	7.5	5	17	30	24	17.5	22	12.5	F900-L-9.52AN
9.52	1/4NPT	7.5	7.5	17	30	24	17.5	22	12.5	F900-L-9.52BN
9.52	3/8NPT	7.5	7.5	17	30	25	17.5	22	12.5	F900-L-9.52CN
9.52	1/2NPT	7.5	7.5	17	33	32	17.5	25	15.5	F900-L-9.52DN
12.7	1/8NPT	10	5	22	36	29	24	25	12	F900-L-12.7AN
12.7	1/4NPT	10	7.5	22	36	29	24	25	12	F900-L-12.7BN
12.7	3/8NPT	10	10	22	36	29	24	25	12	F900-L-12.7CN
12.7	1/2NPT	10	10	22	36	32	24	25	12	F900-L-12.7DN



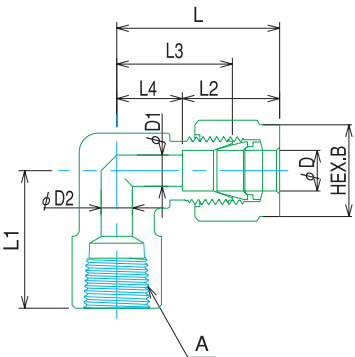
(Unit : mm)

Female Elbow (Rc Thread)



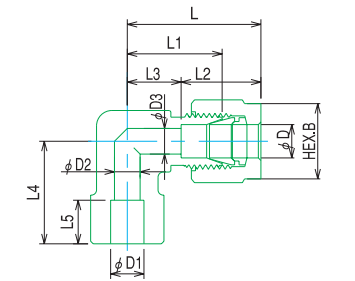
φD Nom.	A	φD1	φD2	B	L	L1	L2	L3	L4	Part Number
3.2	Rc1/8	2.7	7	10	23.5	20	13	17	10.5	F900-LG-3.2A
3.2	Rc1/4	2.7	7	10	26	22	13	19.5	13	F900-LG-3.2B
6.35	Rc1/8	5	7	14	25.5	20	15	18.5	10.5	F900-LG-6.35A
6.35	Rc1/4	5	7	14	29	22	15	22	14	F900-LG-6.35B
6.35	Rc3/8	5	7	14	32	26	15	25	17	F900-LG-6.35C
9.52	Rc1/8	7.5	7	17	30	22	17.5	22	12.5	F900-LG-9.52A
9.52	Rc1/4	7.5	7.5	17	30	22	17.5	22	12.5	F900-LG-9.52B
9.52	Rc3/8	7.5	7.5	17	33	26	17.5	25	15.5	F900-LG-9.52C
12.7	Rc1/8	10	7	22	36	26	24	25	12	F900-LG-12.7A
12.7	Rc1/4	10	10	22	36	26	24	25	12	F900-LG-12.7B
12.7	Rc3/8	10	10	22	36	26	24	25	12	F900-LG-12.7C

Female Elbow (NPT)



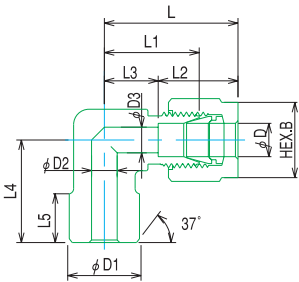
φD Nom.	A	φD1	φD2	B	L	L1	L2	L3	L4	Part Number
3.2	1/8NPT	2.7	7	10	23.5	20	13	17	10.5	F900-LG-3.2AN
3.2	1/4NPT	2.7	7	10	26	22	13	19.5	13	F900-LG-3.2BN
6.35	1/8NPT	5	7	14	25.5	20	15	18.5	10.5	F900-LG-6.35AN
6.35	1/4NPT	5	7	14	29	22	15	22	14	F900-LG-6.35BN
6.35	3/8NPT	5	7	14	32	26	15	25	17	F900-LG-6.35CN
9.52	1/8NPT	7.5	7	17	30	22	17.5	22	12.5	F900-LG-9.52AN
9.52	1/4NPT	7.5	7.5	17	30	22	17.5	22	12.5	F900-LG-9.52BN
9.52	3/8NPT	7.5	7.5	17	33	26	17.5	25	15.5	F900-LG-9.52CN
12.7	1/8NPT	10	7	22	36	26	24	25	12	F900-LG-12.7AN
12.7	1/4NPT	10	10	22	36	26	24	25	12	F900-LG-12.7BN
12.7	3/8NPT	10	10	22	36	26	24	25	12	F900-LG-12.7CN

Socket Weld Elbow Reducing Union



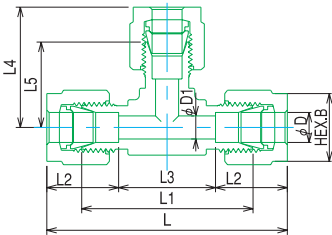
φD Nom.	φD1	φD2	φD3	B	L	L1	L2	L3	L4	L5	Part Number
3.2	3.3	2.7	2.7	10	23.5	17	13	10.5	20	6.5	F900-LR-3.2×3.2F
6.35	6.5	5	5	14	25.5	18.5	15	10.5	20	8	F900-LR-6.35×6.35F
9.52	9.7	7.5	7.5	17	30	22	17.5	12.5	22	10	F900-LR-9.52×9.52F
12.7	12.9	7	7	22	36	25	24	12	26	13	F900-LR-12.7×12.7F

Butt Weld Elbow Reducing Union



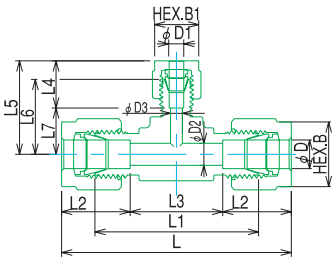
φD Nom.	φD1	φD2	φD3	B	L	L1	L2	L3	L4	L5	Part Number
6.35	10.3	4.8	5	14	25.5	18.5	15	10.5	20	11	F900-LR-6.35×10.3M
6.35	13.7	7.1	5	14	25.5	18.5	15	10.5	22	13	F900-LR-6.35×13.7M
9.52	13.7	7.1	7.5	17	30	22	17.5	12.5	25	13	F900-LR-9.52×13.7M
12.7	21.3	13.2	10	22	36	25	24	12	32	17	F900-LR-12.7×21.35M

Tee Union



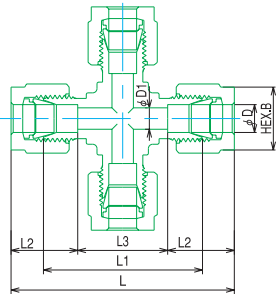
φD Nom.	φD1	B	L	L1	L2	L3	L4	L5	Part Number
3.2	2.7	10	47	34	13	21	23.5	17	F900-T-3.2
6.35	5	14	51	37	15	21	25.5	18.5	F900-T-6.35
9.52	7.5	17	60	44	17.5	25	30	22	F900-T-9.52
12.7	10	22	72	50	24	24	36	25	F900-T-12.7

Reducing Tee Union



φD Nom.	φD1	φD2	φD3	B	B1	L	L1	L2	L3	L4	L5	L6	L7	Part Number
9.52	6.35	7.5	5	17	14	60	44	17.5	25	15	29	22	14	F900-T-9.52×9.52×6.35
12.7	6.35	10	5	22	14	72	50	24	24	15	32	25	17	F900-T-12.7×12.7×6.35
12.7	9.52	10	7.5	22	17	72	50	24	24	17.5	33	25	15.5	F900-T-12.7×12.7×9.52

Cross Union

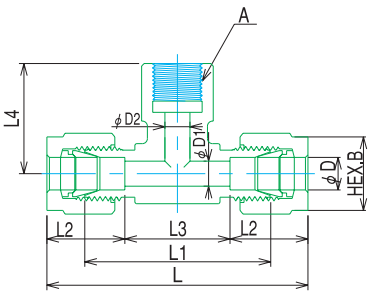


φD Nom.	φD1	B	L	L1	L2	L3	Part Number
3.2	2.7	10	47	34	13	21	F900-X-3.2
6.35	5	14	51	37	15	21	F900-X-6.35
9.52	7.5	17	60	44	17.5	25	F900-X-9.52
12.7	10	22	72	50	24	24	F900-X-12.7



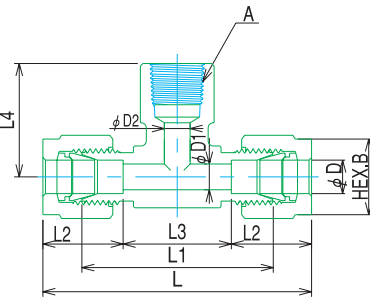
(Unit : mm)

Female Branch Tee (G Thread)



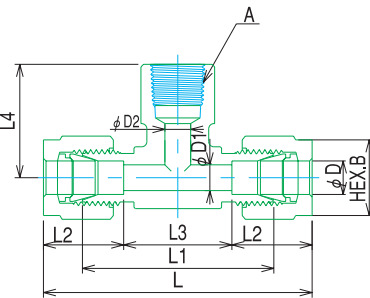
φD Nom.	A	φD1	φD2	B	L	L1	L2	L3	L4	Part Number
3.2	G1/8	2.7	5.5	10	47	34	13	21	22	F900-TG-3.2AF
3.2	G1/4	2.7	5.5	10	52	39	13	26	25.5	F900-TG-3.2BF
6.35	G1/8	5	5.5	14	51	37	15	21	22	F900-TG-6.35AF
6.35	G1/4	5	5.5	14	58	44	15	28	25.5	F900-TG-6.35BF
6.35	G3/8	5	5.5	14	64	50	15	34	32	F900-TG-6.35CF
9.52	G1/8	7.5	5.5	17	60	44	17.5	25	22	F900-TG-9.52AF
9.52	G1/4	7.5	5.5	17	60	44	17.5	25	25.5	F900-TG-9.52BF
9.52	G3/8	7.5	5.5	17	66	50	17.5	31	32	F900-TG-9.52CF
12.7	G1/8	10	5.5	22	72	50	24	24	26	F900-TG-12.7AF
12.7	G1/4	10	5.5	22	72	50	24	24	26	F900-TG-12.7BF
12.7	G3/8	10	5.5	22	72	50	24	24	32	F900-TG-12.7CF

Female Branch Tee (Rc Thread)



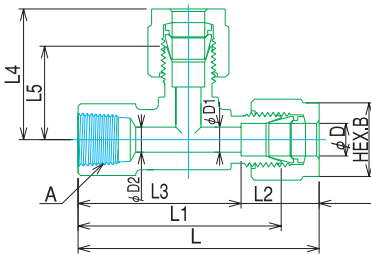
φD Nom.	A	φD1	φD2	B	L	L1	L2	L3	L4	Part Number
3.2	Rc1/8	2.7	7	10	47	34	13	21	20	F900-TG-3.2A
3.2	Rc1/4	2.7	7	10	52	39	13	26	22	F900-TG-3.2B
6.35	Rc1/8	5	7	14	51	37	15	21	20	F900-TG-6.35A
6.35	Rc1/4	5	7	14	58	44	15	28	22	F900-TG-6.35B
6.35	Rc3/8	5	7	14	64	50	15	34	26	F900-TG-6.35C
9.52	Rc1/8	7.5	7	17	60	44	17.5	25	22	F900-TG-9.52A
9.52	Rc1/4	7.5	7.5	17	60	44	17.5	25	22	F900-TG-9.52B
9.52	Rc3/8	7.5	7.5	17	66	50	17.5	31	26	F900-TG-9.52C
12.7	Rc1/8	10	7	22	72	50	24	24	26	F900-TG-12.7A
12.7	Rc1/4	10	10	22	72	50	24	24	26	F900-TG-12.7B
12.7	Rc3/8	10	10	22	72	50	24	24	26	F900-TG-12.7C

Female Branch Tee (NPT)



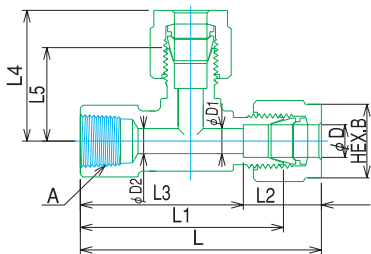
φD Nom.	A	φD1	φD2	B	L	L1	L2	L3	L4	Part Number
3.2	1/8NPT	2.7	7	10	47	34	13	21	20	F900-TG-3.2AN
3.2	1/4NPT	2.7	7	10	52	39	13	26	22	F900-TG-3.2BN
6.35	1/8NPT	5	7	14	51	37	15	21	20	F900-TG-6.35AN
6.35	1/4NPT	5	7	14	58	44	15	28	22	F900-TG-6.35BN
6.35	3/8NPT	5	7	14	64	50	15	34	26	F900-TG-6.35CN
9.52	1/8NPT	7.5	7	17	60	44	17.5	25	22	F900-TG-9.52AN
9.52	1/4NPT	7.5	7.5	17	60	44	17.5	25	22	F900-TG-9.52BN
9.52	3/8NPT	7.5	7.5	17	66	50	17.5	31	26	F900-TG-9.52CN
12.7	1/8NPT	10	7	22	72	50	24	24	26	F900-TG-12.7AN
12.7	1/4NPT	10	10	22	72	50	24	24	26	F900-TG-12.7BN
12.7	3/8NPT	10	10	22	72	50	24	24	26	F900-TG-12.7CN

Female Run Tee (Rc Thread)



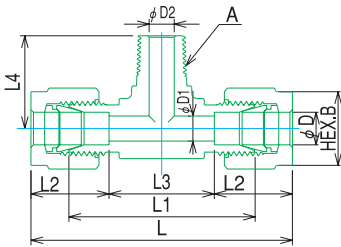
φD Nom.	A	φD1	φD2	B	L	L1	L2	L3	L4	L5	Part Number
3.2	Rc1/8	2.7	7	10	43.5	37	13	30.5	23.5	17	F900-TLG-3.2A
3.2	Rc1/4	2.7	7	10	48	41.5	13	35	26	19.5	F900-TLG-3.2B
6.35	Rc1/8	5	7	14	45.5	38.5	15	30.5	25.5	18.5	F900-TLG-6.35A
6.35	Rc1/4	5	7	14	51	44	15	36	29	22	F900-TLG-6.35B
6.35	Rc3/8	5	7	14	58	51	15	43	32	25	F900-TLG-6.35C
9.52	Rc1/8	7.5	7.5	17	52	44	17.5	34.5	30	22	F900-TLG-9.52A
9.52	Rc1/4	7.5	7.5	17	52	44	17.5	34.5	30	22	F900-TLG-9.52B
9.52	Rc3/8	7.5	7.5	17	59	51	17.5	41.5	33	25	F900-TLG-9.52C
12.7	Rc1/8	10	7	22	62	51	24	38	36	25	F900-TLG-12.7A
12.7	Rc1/4	10	10	22	62	51	24	38	36	25	F900-TLG-12.7B
12.7	Rc3/8	10	10	22	62	51	24	38	36	25	F900-TLG-12.7C

Female Run Tee (NPT)



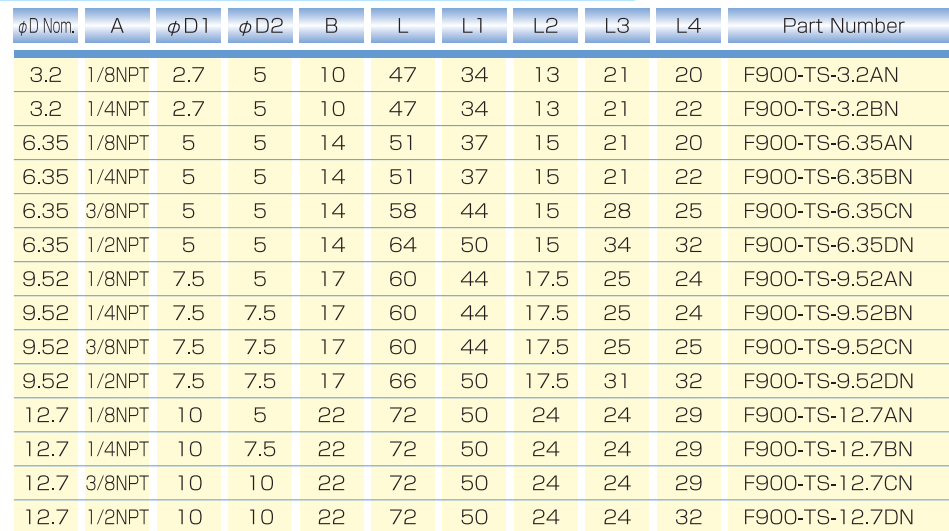
φD Nom.	A	φD1	φD2	B	L	L1	L2	L3	L4	L5	Part Number
3.2	1/8NPT	2.7	7	10	43.5	37	13	30.5	23.5	17	F900-TLG-3.2AN
3.2	1/4NPT	2.7	7	10	48	41.5	13	35	26	19.5	F900-TLG-3.2BN
6.35	1/8NPT	5	7	14	45.5	38.5	15	30.5	25.5	18.5	F900-TLG-6.35AN
6.35	1/4NPT	5	7	14	51	44	15	36	29	22	F900-TLG-6.35BN
6.35	3/8NPT	5	7	14	58	51	15	43	32	25	F900-TLG-6.35CN
9.52	1/8NPT	7.5	7.5	17	52	44	17.5	34.5	30	22	F900-TLG-9.52AN
9.52	1/4NPT	7.5	7.5	17	52	44	17.5	34.5	30	22	F900-TLG-9.52BN
9.52	3/8NPT	7.5	7.5	17	59	51	17.5	41.5	33	25	F900-TLG-9.52CN
12.7	1/8NPT	10	7	22	62	51	24	38	36	25	F900-TLG-12.7AN
12.7	1/4NPT	10	10	22	62	51	24	38	36	25	F900-TLG-12.7BN
12.7	3/8NPT	10	10	22	62	51	24	38	36	25	F900-TLG-12.7CN

Male Branch Tee (R Thread)



φD Nom.	A	φD1	φD2	B	L	L1	L2	L3	L4	Part Number
3.2	R1/8	2.7	5	10	47	34	13	21	20	F900-TS-3.2A
3.2	R1/4	2.7	5	10	47	34	13	21	22	F900-TS-3.2B
6.35	R1/8	5	5	14	51	37	15	21	20	F900-TS-6.35A
6.35	R1/4	5	5	14	51	37	15	21	22	F900-TS-6.35B
6.35	R3/8	5	5	14	58	44	15	28	25	F900-TS-6.35C
6.35	R1/2	5	5	14	64	50	15	34	32	F900-TS-6.35D
9.52	R1/8	7.5	5	17	60	44	17.5	25	24	F900-TS-9.52A
9.52	R1/4	7.5	7.5	17	60	44	17.5	25	24	F900-TS-9.52B
9.52	R3/8	7.5	7.5	17	60	44	17.5	25	25	F900-TS-9.52C
9.52	R1/2	7.5	7.5	17	66	50	17.5	31	32	F900-TS-9.52D
12.7	R1/8	10	5	22	72	50	24	24	29	F900-TS-12.7A
12.7	R1/4	10	7.5	22	72	50	24	24	29	F900-TS-12.7B
12.7	R3/8	10	10	22	72	50	24	24	29	F900-TS-12.7C
12.7	R1/2	10	10	22	72	50	24	24	32	F900-TS-12.7D

(Unit : mm)



φD Nom.	A	φD1	φD2	B	L	L1	L2	L3	L4	L5	Part Number
3.2	R1/8	2.7	5	10	43.5	23.5	13	30.5	20	17	F900-TL-3.2A
3.2	R1/4	2.7	5	10	45.5	23.5	13	32.5	22	17	F900-TL-3.2B
6.35	R1/8	5	5	14	45.5	25.5	15	30.5	20	18.5	F900-TL-6.35A
6.35	R1/4	5	5	14	47.5	25.5	15	32.5	22	18.5	F900-TL-6.35B
6.35	R3/8	5	5	14	54	29	15	39	25	22	F900-TL-6.35C
6.35	R1/2	5	5	14	64	32	15	49	32	25	F900-TL-6.35D
9.52	R1/8	7.5	5	17	54	30	17.5	36.5	24	22	F900-TL-9.52A
9.52	R1/4	7.5	7.5	17	54	30	17.5	36.5	24	22	F900-TL-9.52B
9.52	R3/8	7.5	7.5	17	55	30	17.5	37.5	25	22	F900-TL-9.52C
9.52	R1/2	7.5	7.5	17	65	33	17.5	47.5	32	25	F900-TL-9.52D
12.7	R1/8	10	5	22	65	36	24	41	29	25	F900-TL-12.7A
12.7	R1/4	10	7.5	22	65	36	24	41	29	25	F900-TL-12.7B
12.7	R3/8	10	10	22	65	36	24	41	29	25	F900-TL-12.7C
12.7	R1/2	10	10	22	68	36	24	44	32	25	F900-TL-12.7D

φD Nom.	A	φD1	φD2	B	L	L1	L2	L3	L4	L5	Part Number
3.2	1/8NPT	2.7	5	10	43.5	23.5	13	30.5	20	17	F900-TL-3.2AN
3.2	1/4NPT	2.7	5	10	45.5	23.5	13	32.5	22	17	F900-TL-3.2BN
6.35	1/8NPT	5	5	14	45.5	25.5	15	30.5	20	18.5	F900-TL-6.35AN
6.35	1/4NPT	5	5	14	47.5	25.5	15	32.5	22	18.5	F900-TL-6.35BN
6.35	3/8NPT	5	5	14	54	29	15	39	25	22	F900-TL-6.35CN
6.35	1/2NPT	5	5	14	64	32	15	49	32	25	F900-TL-6.35DN
9.52	1/8NPT	7.5	5	17	54	30	17.5	36.5	24	22	F900-TL-9.52AN
9.52	1/4NPT	7.5	7.5	17	54	30	17.5	36.5	24	22	F900-TL-9.52BN
9.52	3/8NPT	7.5	7.5	17	55	30	17.5	37.5	25	22	F900-TL-9.52CN
9.52	1/2NPT	7.5	7.5	17	65	33	17.5	47.5	32	25	F900-TL-9.52DN
12.7	1/8NPT	10	5	22	65	36	24	41	29	25	F900-TL-12.7AN
12.7	1/4NPT	10	7.5	22	65	36	24	41	29	25	F900-TL-12.7BN
12.7	3/8NPT	10	10	22	65	36	24	41	29	25	F900-TL-12.7CN
12.7	1/2NPT	10	10	22	68	36	24	44	32	25	F900-TL-12.7DN

Unit : mm)



φD Nom.	B	L	Part Number
3.2	10	12	F900-JP-3.2
6.35	14	13	F900-JP-6.35
9.52	17	14.5	F900-JP-9.52
12.7	22	18.2	F900-JP-12.7

ϕ D Nom.	ϕ D1	ϕ D2	L	L1	Part Number
3.2	1.8	6.2	25	16	F900-PC-3.2
6.35	4.5	9.4	28	19	F900-PC-6.35
9.52	7	12.6	30.5	21.5	F900-PC-9.52
12.7	10	17.4	42	28.5	F900-PC-12.7

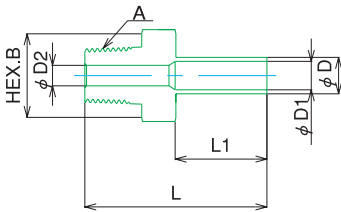
ϕ D Nom.	Part Number
3.2	F900-3.2S.R
6.35	F900-6.35S.R
9.52	F900-9.52S.R
12.7	F900-12.7S.R

øD Nom.	A	B	L	Part Number
3.2	5/16-20UN	10	12	F900-3.2N
6.35	7/16-20UNF	14	13	F900-6.35N
9.52	9/16-20UN	17	14.5	F900-9.52N
12.7	3/4-20UNEF	22	18.2	F900-12.7N



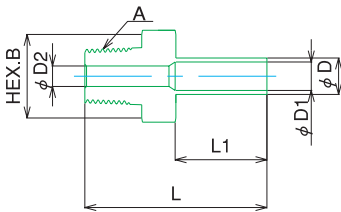
(Unit : mm)

Tube Adapter (R Thread)



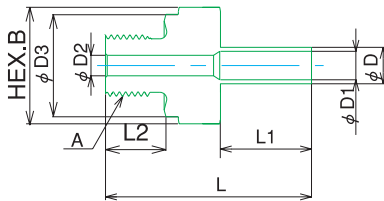
φ D Nom.	A	φ D1	φ D2	B	L	L1	Part Number
3.2	R1/8	1.8	4.5	12	28.5	13.5	F900-AT-3.2A
3.2	R1/4	1.8	4.5	14	31.5	13.5	F900-AT-3.2B
6.35	R1/8	4.5	4.5	12	31	16	F900-AT-6.35A
6.35	R1/4	4.5	4.5	14	35	16	F900-AT-6.35B
6.35	R3/8	4.5	4.5	17	36	16	F900-AT-6.35C
6.35	R1/2	4.5	4.5	22	41	16	F900-AT-6.35D
9.52	R1/8	7	5	12	33	18	F900-AT-9.52A
9.52	R1/4	7	7	14	37	18	F900-AT-9.52B
9.52	R3/8	7	7	17	38	18	F900-AT-9.52C
9.52	R1/2	7	7	22	43	18	F900-AT-9.52D
12.7	R1/8	10	5	14	40.5	24.5	F900-AT-12.7A
12.7	R1/4	10	7.5	14	43.5	24.5	F900-AT-12.7B
12.7	R3/8	10	10	17	44.5	24.5	F900-AT-12.7C
12.7	R1/2	10	10	22	49.5	24.5	F900-AT-12.7D

Tube Adapter (NPT)



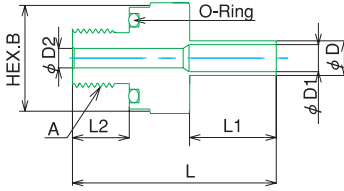
φ D Nom.	A	φ D1	φ D2	B	L	L1	Part Number
3.2	1/8NPT	1.8	4.5	12	28.5	13.5	F900-AT-3.2AN
3.2	1/4NPT	1.8	4.5	14	31.5	13.5	F900-AT-3.2BN
6.35	1/8NPT	4.5	4.5	12	31	16	F900-AT-6.35AN
6.35	1/4NPT	4.5	4.5	14	35	16	F900-AT-6.35BN
6.35	3/8NPT	4.5	4.5	19	36	16	F900-AT-6.35CN
6.35	1/2NPT	4.5	4.5	22	41	16	F900-AT-6.35DN
9.52	1/8NPT	7	5	12	33	18	F900-AT-9.52AN
9.52	1/4NPT	7	7	14	37	18	F900-AT-9.52BN
9.52	3/8NPT	7	7	19	38	18	F900-AT-9.52CN
9.52	1/2NPT	7	7	22	43	18	F900-AT-9.52DN
12.7	1/8NPT	10	5	14	40.5	24.5	F900-AT-12.7AN
12.7	1/4NPT	10	7.5	14	43.5	24.5	F900-AT-12.7BN
12.7	3/8NPT	10	10	19	44.5	24.5	F900-AT-12.7CN
12.7	1/2NPT	10	10	22	49.5	24.5	F900-AT-12.7DN

Male Tube Adapter (G Thread)



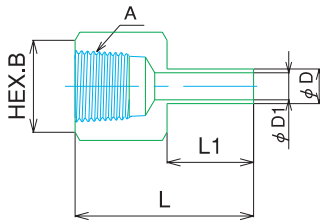
φ D Nom.	A	φ D1	φ D2	φ D3	B	L	L1	L2	Part Number
3.2	G1/8	1.8	4	13.7	14	28.9	13.5	7.4	F900-AT-3.2AF
3.2	G1/4	1.8	5	18.7	19	34.4	13.5	11	F900-AT-3.2BF
6.35	G1/8	4.5	4	13.7	14	31.4	16	7.4	F900-AT-6.35AF
6.35	G1/4	4.5	5	18.7	19	36.9	16	11	F900-AT-6.35BF
9.52	G1/4	7	5	18.7	19	38.9	18	11	F900-AT-9.52BF
9.52	G3/8	7	8	21.7	22	40.9	18	11.4	F900-AT-9.52CF
9.52	G1/2	7	10	25.7	26	45.5	18	15	F900-AT-9.52DF
12.7	G1/4	10	5	18.7	19	45.4	24.5	11	F900-AT-12.7BF
12.7	G3/8	10	8	21.7	22	47.4	24.5	11.4	F900-AT-12.7CF
12.7	G1/2	10	10	25.7	26	52	24.5	15	F900-AT-12.7DF

O-Ring Type Tube Adapter (UNF Thread)



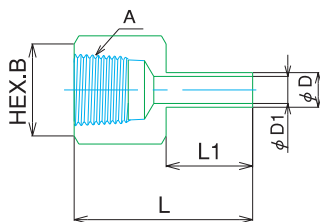
φ D Nom.	A	φ D1	φ D2	B	L	L1	L2	O-Ring Size	Part Number
3.2	5/16-24UNF	1.8	4	14	31	13.5	8.5	P8	F900-AT-3.2x5/16-24-OR
6.35	7/16-20UNF	4.5	4.5	19	36.5	16	10.5	P12.5	F900-AT-6.35x7/16-20-OR
9.52	9/16-18UNF	7	7	26	41	18	12	P18	F900-AT-9.52x9/16-18-OR
12.7	3/4-16UNF	10	10	29	48.5	24.5	12	P21	F900-AT-12.7x3/4-16-OR

Tube Gauge Adapter (Rc Thread)



φ D Nom.	A	φ D1	B	L	L1	Part Number
3.2	Rc1/8	1.8	14	27.5	13.5	F900-ATG-3.2A
3.2	Rc1/4	1.8	17	30.5	13.5	F900-ATG-3.2B
6.35	Rc1/8	4.5	14	30	16	F900-ATG-6.35A
6.35	Rc1/4	4.5	17	33	16	F900-ATG-6.35B
6.35	Rc3/8	4.5	21	35	16	F900-ATG-6.35C
6.35	Rc1/2	4.5	26	39	16	F900-ATG-6.35D
9.52	Rc1/8	7	14	32	18	F900-ATG-9.52A
9.52	Rc1/4	7	17	35	18	F900-ATG-9.52B
9.52	Rc3/8	7	21	37	18	F900-ATG-9.52C
9.52	Rc1/2	7	26	41	18	F900-ATG-9.52D
12.7	Rc1/8	7.5	14	38.5	24.5	F900-ATG-12.7A
12.7	Rc1/4	10	17	41.5	24.5	F900-ATG-12.7B
12.7	Rc3/8	10	21	43.5	24.5	F900-ATG-12.7C
12.7	Rc1/2	10	26	47.5	24.5	F900-ATG-12.7D

Tube Gauge Adapter (NPT)



φ D Nom.	A	φ D1	B	L	L1	Part Number
3.2	1/8NPT	1.8	14	27.5	13.5	F900-ATG-3.2AN
3.2	1/4NPT	1.8	17	30.5	13.5	F900-ATG-3.2BN
6.35	1/8NPT	4.5	14	30	16	F900-ATG-6.35AN
6.35	1/4NPT	4.5	17	33	16	F900-ATG-6.35BN
6.35	3/8NPT	4.5	21	35	16	F900-ATG-6.35CN
6.35	1/2NPT	4.5	26	39	16	F900-ATG-6.35DN
9.52	1/8NPT	7	14	32	18	F900-ATG-9.52AN
9.52	1/4NPT	7	17	35	18	F900-ATG-9.52BN
9.52	3/8NPT	7	21	37	18	F900-ATG-9.52CN
9.52	1/2NPT	7	26	41	18	F900-ATG-9.52DN
12.7	1/8NPT	7.5	14	38.5	24.5	F900-ATG-12.7AN
12.7	1/4NPT	10	17	41.5	24.5	F900-ATG-12.7BN
12.7	3/8NPT	10	21	43.5	24.5	F900-ATG-12.7CN
12.7	1/2NPT	10	26	47.5	24.5	F900-ATG-12.7DN



Tube Technical Data

1-1 Tube Selection Considerations

FINELOK·PURE® series have been designed for superior pressure resiliency and sealing performance, and it is important to select a tube carefully in order to maintain the fundamental reliability and safety that the FINELOK·PURE® offers.

It is therefore recommended that a high-quality tube be selected to achieve the highest level of reliability and safety.

1-2 Minimum Tube Wall Thickness

To obtain maximum performance from FINELOK·PURE®, the tube thickness must be equal to, or greater than the minimum wall thickness as noted in the table below.

Nominal Diameter	Minimum Wall Thickness (mm)
1/8 OD (3.2)	0.50
1/4 OD (6.35)	0.88
3/8 OD (9.52)	1.00
1/2 OD (12.7)	1.24

Please contact Fujikin if a tube having a thinner wall than those listed above must be used.

1-3 Tube Hardness

Tubes used with FINELOK·PURE® must be Hv 200 or less. Although tubes with a hardness of approximately Hv 250 have been successfully used without negative impact, our recommendation has been established in order to reduce any possible stress corrosion cracking or other problem.

Note that the typical hardness of annealed tube is usually in the area of approximately Hv 160.

1-4 Tube Bending Dimensions

Before tightening FINELOK·PURE® fittings, it is imperative that the tube make contact with the fitting shoulder. Therefore a minimum straight tube length must exist for proper operation. When bending tube, please allow more than the minimum straight section dimension as outlined below.

D (Nominal Diameter)	L1	L2	R (Minimum dimension)
1/8 OD (3.2)	19	15	9.53
1/4 OD (6.35)	21	17	14.28
3/8 OD (9.52)	24	19.5	23.81
1/2 OD (12.7)	31	26	38.1

L1 - Minimum recommended straight tube length.
L2 - Minimum straight tube length to be used under conditions where no other option is available.

1-5 SUS 304 and SUS 316 Tube Maximum Pressure {MPa}

Nominal Tube Wall Thickness (mm)		0.72	0.89	1	1.24	1.65
Nom. Dia (mm)	Material					
1/8 OD (3.2)	SUS304	45.4 (33.2)	53.7 (39.3)	58.3 (42.7)	—	—
	SUS316	45.4 (35.4)	53.7 (41.8)	58.3 (45.3)	—	—
1/4 OD (6.35)	SUS304	—	40.5 (29.7)	46.3 (33.8)	59.4 (43.5)	—
	SUS316	—	40.5 (31.5)	46.3 (36.0)	59.4 (46.3)	—
3/8 OD (9.52)	SUS304	—	—	29.4 (21.6)	37.3 (27.4)	51.7 (37.9)
	SUS316	—	—	29.4 (22.8)	37.3 (29.0)	51.7 (40.2)
1/2 OD (12.7)	SUS304	—	—	—	27.2 (19.9)	37.2 (27.3)
	SUS316	—	—	—	27.2 (21.2)	37.2 (28.9)

Note: The values above are maximum pressures at 100°F (40°C).
Figures in () are applicable for a temperature of 300°F (150°C).

1-6 Fujikin Tube Specifications

- (1) Standard materials: JIS G3459 SUS304 and SUS316.
- (2) Bright annealed seamless tube. Hardness less than 180Hv.
- (3) Inner and outer tube surfaces are specially processed to impart a lustrous, shiny surface. Inner surface roughness is less than 4S (more than 1/4 O.D. of nominal diameter).
- (4) Tube warp is 1mm per 1m maximum.
- (5) Standard dimensions and tolerances:

Nominal Diameter	Dimensional Tolerance			
	O.D.	Wall Thickness	Circularity	Length
1/8 OD (3.2) × 0.72t	+0.05 0	±0.05	0.03	+5 0
1/4 OD (6.35) × 0.89t	+0.05 0	±0.05	0.03	+5 0
1/4 OD (6.35) × 1t	0	±0.05	0.03	0
3/8 OD (9.52) × 1t	+0.05 0	±0.05	0.03	+5 0
1/2 OD (12.7) × 1.24t	+0.05 0	±0.05	0.03	+5 0

- (6) 2m and 4m are also in stock as standard tube lengths.
Please contact Fujikin for alternate dimensions or other materials (such as 316L).

Installation

2-1 Preparation

- 1. The tube should preferably be annealed seamless austenitic stainless steel. O.D. dimensional tolerance to fall within ±0.05mm, and hardness to be less than 200 Hv.
- 2. Please refer to "Tube Selection Considerations" in the previous section for proper tube selection.
- 3. The tube must not have any visible imperfections or foreign material within 30mm of the tube end.
- 4. The tube should be cut to the required length before performing connections.
- 5. A tube cutter is the preferred method of cutting tube. If an alternate means of cutting tube is employed, be sure the ends are square. Any outer burrs must be removed by filing at a 45° angle toward the tube centerline.

2-2 Tightening Procedure

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Small size fitting and plug tightening procedure.

- 1. For 3.2mm (1/8") or smaller: hand-tighten, then turn the nut using a wrench only 1/4-turn. Complete!
- 2. F900-JP type plug (all sizes): hand tighten, then tighten an additional 1/4 turn with a wrench, (the procedure for machined tube is the same as that for a normal tube). Complete!

2-3 Tightening Guidelines

- 1. Always use correct metric wrenches when tightening.
- 2. When performing a connection, be sure the body is securely held with a wrench while the nut is being tightened. Never hold the nut in place and attempt to tighten the body.
- 3. If the installation angle of a fitting must be changed after it has been tightened, be sure to adequately loosen the nut prior to adjustment.
- 4. When performing a connection, be sure that the tube and connection are aligned concentrically.
- 5. If the fitting (or any of its components) are accidentally dropped, be sure to remove any foreign material and inspect for damage before using.
- 6. During tee or elbow tightening, a T-wrench is the preferred tool, and should be used as much as possible.
- 7. For connections in awkward locations, a preliminary or temporary tightening of the connection should be performed beforehand in order to assure sufficient tightening force.

2-4 Re-Tightening After Removal

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2-5 Special Tools

- 1.T-Wrench (pat. pending)
This tool is used to support tees and elbows when doing so with a conventional wrench is awkward. This tool makes installation easier as it can also be used to hold the fitting.
- 2.Special Wrench
This special fitting wrench has a slimmer head, is easier to apply force with, and reduces fatigue.
- 3. Preliminary Tightening Jig
This tool is used for setting and tightening the ferrules before fitting assembly. Especially convenient during awkward installations where conventional procedures are too difficult - such as for ceiling or sub-floor piping, and complex arrangements.
- 4.Tube Cutter (pat. pending)
This tube cutter assures a clean cut, and the special rollers leave virtually no marks on the tube. Recommended for flareless fittings, and is recommended by Fujikin.
- 5.Adjustable Wrench
A slim head and comfortable grip allows for easier installation. Recommended by Fujikin, (manuf. by Nippon Riki Co., Ltd.)

2-6 Etching

If the fitting will be used after an etching process, please consult with Fujikin. Special care is required for etching to avoid noticeably damaging the surface precision.