

FINE series PURE

F900 Tube Fitting series (TUBES CONNECTOR)

FINELOK·PURE



F900-T-6.35

F900-F-6.35

Excellent, Ultimate, Fine, Clean & Safe Technology

 **Fujikin Carp Group**

We welcome customer feedback for all of our products and services.

Persuing the Ultimate in Reliability: The **Fujikin** F900 Tube Fitting series

The F900 (FINELOK·PURE) series are tube fittings with excellent performance and quality.













They are manufactured utilizing the design expertise and production technology that we have accumulated through our many years of experience as a precision fitting manufacturer.

The F900 (FINELOK·PURE) series are flareless double ring compression fittings that does not require tube thread cutting.

Their parts consist of a stainless steel (SUS316^{※1}, SUS316) Body, Front Ring, Back Ring, and Nut.

※1: We may use ASTM standard material (SUS316 equivalent material).



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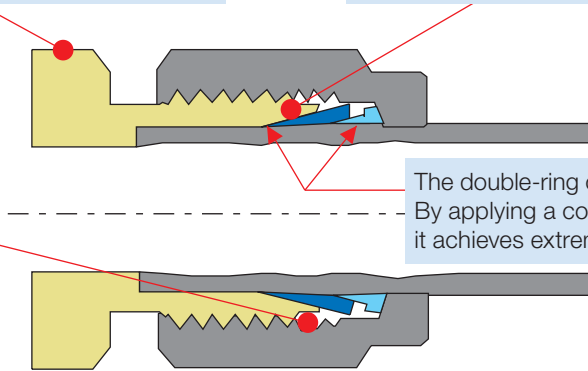
Features

The tube size is stamped on the Body for quick and easy identification.

The metal sealing parts, which undergo precision finishing, ensure an airtight seal.

The Nut's threads are silver-plated to prevent galling.

The double-ring connection creates a strong bond. By applying a compressive force to the tube, it achieves extremely high pressure resistance.



◆ Note

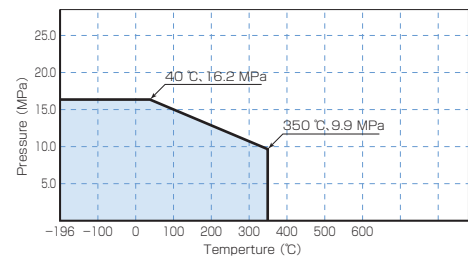
F900 Tube Fitting series are flareless double ring compression fitting that does not require tube thread cutting. Special hardening heat treatment is given to Buck Ring in order to prevent seal performance improving and a tube pulled out. F900 Tube Fitting series cannot be used at the place which rain water fell on with outdoor equipment etc. If you consider to use in an environment with a possibility that a Buck Ring may be corroded, please use LF900 Fitting series for liquid. However, it is not this limitation if you take the measures that rain water, chemical liquid, etc. do not fall on.

Specifications & Materials

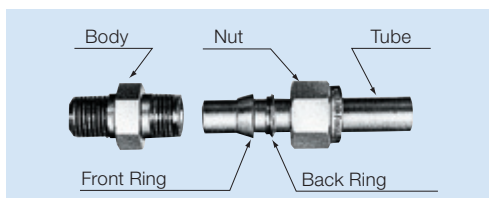
Specifications	Design Pressure	16.2 MPa
	Temperature Range	-196 °C ~ +350 °C
Materials	Nut	SUS316
	Body	SUS316, SUSF316
	Front Ring	SUS316
	Back Ring	SUS316

Note: We may use ASTM standard material (SUS316 equivalent material).

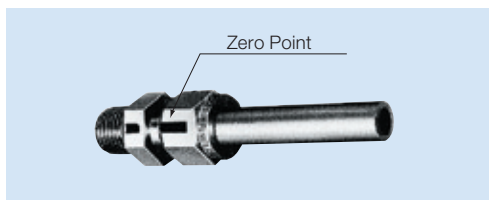
Temperature and Pressure Rating



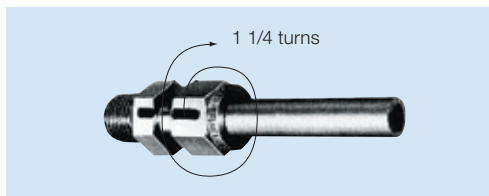
Assembly: Fittings



① Ensure that the parts are installed in the order shown in the picture (left).



② Insert the Tube completely until it makes contact with the Body. Hand-tighten the Nut until it cannot be tightened further. After manually tightening the Nut, mark both the Body and the Nut. This point is the zero point.

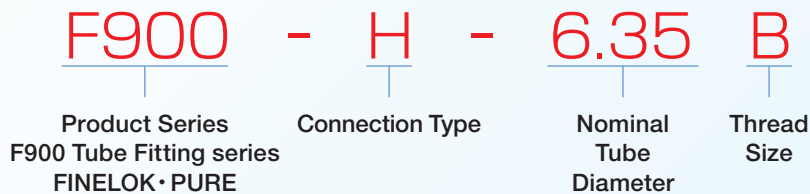


③ With a wrench, tighten the Nut 1 1/4 turns from the zero point. Assembly is then complete.

Part Number Designation

Please use the Part Number Designation below when placing an order or making an inquiry.

Part Number Designation



◆ Connection Type

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

◆ Thread Size

Tapered Thread							
Specifications		A	B	C	D	E	F
JIS B0203 (1982)	External	R1/8	R1/4	R3/8	R1/2	R3/4	R1
	Internal	Rc1/8	Rc1/4	Rc3/8	Rc1/2	Rc3/4	Rc1

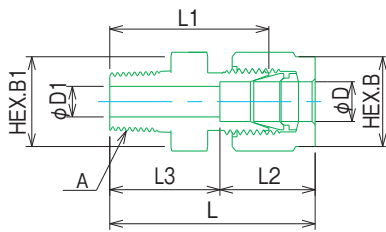
Tapered Thread						
Specifications		AN	BN	CN	DN	EN
ANSI B1.20.1		1/8NPT	1/4NPT	3/8NPT	1/2NPT	3/4NPT

Parallel Thread					
Specifications		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

Tube Dimensions	Tube Nominal Diameter
	3.2 indicates 1/8OD
	6.35 indicates 1/4OD
	9.52 indicates 3/8OD
	12.7 indicates 1/2OD
	19.05 indicates 3/4OD
	25.4 indicates 1OD

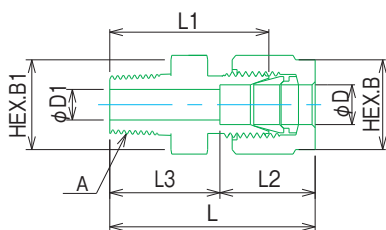
(unit: mm)

Male Conector (R Thread)



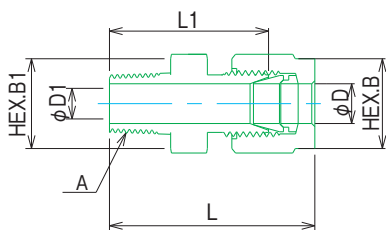
Nom. Dia. D	A	D1	B	B1	L	L1	L2	L3	Part Numbers
3.2	R1/8	2.7	10	12	30	23.5	13	17	F900-H-3.2A
3.2	R1/4	2.7	10	14	33	26.5	13	20	F900-H-3.2B
6.35	R1/8	5	14	14	33	26	15	18	F900-H-6.35A
6.35	R1/4	5	14	14	36	29	15	21	F900-H-6.35B
6.35	R3/8	5	14	17	37	30	15	22	F900-H-6.35C
6.35	R1/2	5	14	22	42	35	15	27	F900-H-6.35D
9.52	R1/8	5	17	17	36	28	17.5	18.5	F900-H-9.52A
9.52	R1/4	7.5	17	17	39	31	17.5	21.5	F900-H-9.52B
9.52	R3/8	7.5	17	17	40	32	17.5	22.5	F900-H-9.52C
9.52	R1/2	7.5	17	22	44	36	17.5	26.5	F900-H-9.52D
12.7	R1/8	5	22	22	41.5	30.5	24	17.5	F900-H-12.7A
12.7	R1/4	7.5	22	22	44.5	33.5	24	20.5	F900-H-12.7B
12.7	R3/8	10	22	22	45.5	34.5	24	21.5	F900-H-12.7C
12.7	R1/2	10	22	22	48.5	37.5	24	24.5	F900-H-12.7D
19.05	R1/8	5	29	29	44.5	33.5	25.2	19.3	F900-H-19.05A
19.05	R1/4	7.5	29	29	47.5	36.5	25.2	22.3	F900-H-19.05B
19.05	R3/8	10	29	29	48.5	37.5	25.2	23.3	F900-H-19.05C
19.05	R1/2	12.7	29	29	51.5	40.5	25.2	26.3	F900-H-19.05D
19.05	R3/4	16	29	29	53.5	42.5	25.2	28.3	F900-H-19.05E
19.05	R1	16	29	29	57	46	25.2	31.8	F900-H-19.05F
25.4	R3/4	15.7	38	35	57.4	45.2	31.2	26.2	F900-H-25.4E
25.4	R1	22.4	38	35	62.2	50	31.2	31	F900-H-25.4F

Male Conector (NPT Thread)



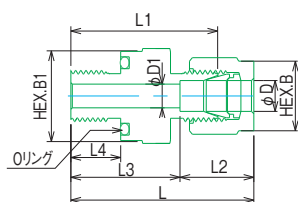
Nom. Dia. D	A	D1	B	B1	L	L1	L2	L3	Part Numbers
3.2	1/8NPT	2.7	10	12	30	23.5	13	17	F900-H-3.2AN
3.2	1/4NPT	2.7	10	14	33	26.5	13	20	F900-H-3.2BN
6.35	1/8NPT	5	14	14	33	26	15	18	F900-H-6.35AN
6.35	1/4NPT	5	14	14	36	29	15	21	F900-H-6.35BN
6.35	3/8NPT	5	14	19	37	30	15	22	F900-H-6.35CN
6.35	1/2NPT	5	14	22	42	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
19.05	1/8NPT	5	29	29	44.5	33.5	25.2	19.3	F900-H-19.05AN
19.05	1/4NPT	7.5	29	29	47.5	36.5	25.2	22.3	F900-H-19.05BN
19.05	3/8NPT	10	29	29	48.5	37.5	25.2	23.3	F900-H-19.05CN
19.05	1/2NPT	12.7	29	29	51.5	40.5	25.2	26.3	F900-H-19.05DN
19.05	3/4NPT	16	29	29	53.5	42.5	25.2	28.3	F900-H-19.05EN

Thermocouple-Type Male Conector (R Thread)



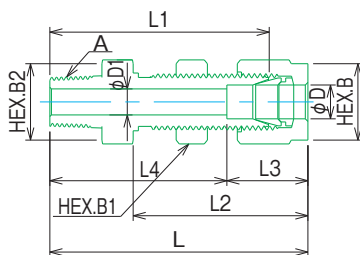
Nom. Dia. D	A	D1	B	B1	L	L1	Part Numbers
3.2	R1/8	3.3	10	12	30	23.5	F900-H-3.2A-TC
3.2	R1/4	3.3	10	14	33	26.5	F900-H-3.2B-TC
6.35	R1/4	6.5	14	14	36	29	F900-H-6.35B-TC
6.35	R3/8	6.5	14	17	37	30	F900-H-6.35C-TC
6.35	R1/2	6.5	14	22	42	35	F900-H-6.35D-TC
9.52	R3/8	9.7	17	17	40	32	F900-H-9.52C-TC
9.52	R1/2	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
12.7	R3/4	12.9	22	29	52	41	F900-H-12.7E-TC
19.05	R3/4	19.2	29	29	53.5	42.5	F900-H-19.05E-TC

O-Ring Type Male Conector (UNF Thread)



Nom. Dia. D	A	D1	B	B1	L	L1	L2	L3	L4	O-Ring Size	Part Numbers
3.2	5/16-24UNF	2.7	10	14	32.5	26	13	19.5	8.5	P8	F900-H-3.2x5/16-24-OR
6.35	7/16-20UNF	5	14	19	38	31	15	23	10.5	P12.5	F900-H-6.35x7/16-20-OR
9.52	9/16-18UNF	7.5	17	26	42	34	17.5	24.5	12	P18	F900-H-9.52x9/16-18-OR
12.7	3/4-16UNF	10	22	29	47	36	24	23	12	P21	F900-H-12.7x3/4-16-OR

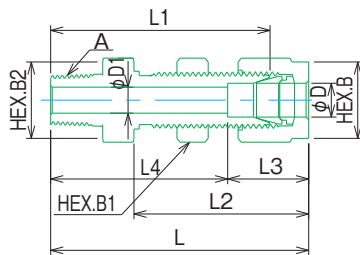
Bulkhead Male Conector (R Thread)



※ Please finish the panel hole diameter to a basic dimens (+0^{0.5}).

Nom. Dia. D	A	Panel Hole Dia.	D1	B	B1	B2	L	L1	L2	L3	L4	Part Numbers
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

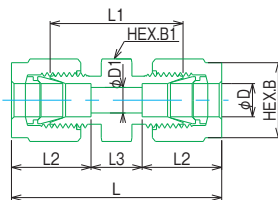
Bulkhead Male Connector (NPT Thread)



※ Please finish the panel hole diameter to a basic dims ($^{+0.5}$).

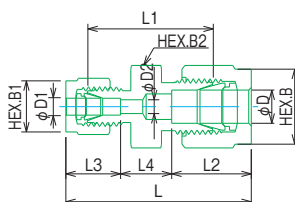
Nom. Dia. D	A	Panel Hole Dia.	D1	B	B1	B2	L	L1	L2	L3	L4	Part Numbers
3.2	1/8NPT	8	2.7	10	12	12	44	37.5	29	13	31	F900-HP-3.2AN
3.2	1/4NPT	8	2.7	10	12	14	47	40.5	29	13	34	F900-HP-3.2BN
6.35	1/8NPT	11.2	5	14	14	14	49	42	33	15	34	F900-HP-6.35AN
6.35	1/4NPT	11.2	5	14	14	14	52	45	33	15	37	F900-HP-6.35BN
6.35	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

Straight Union



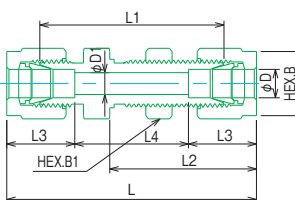
Nom. Dia. D	D1	B	B1	L	L1	L2	L3	Part Numbers
3.2	2.7	10	10	35	22	13	9	F900-F-3.2
6.35	5	14	14	40	26	15	10	F900-F-6.35
9.52	7.5	17	17	45	29	17.5	10	F900-F-9.52
12.7	10	22	22	54.5	32.5	24	6.5	F900-F-12.7
19.05	16	29	29	59	37	25.2	8.6	F900-F-19.05
25.4	22.4	38	35	64.8	40.4	31.2	2.4	F900-F-25.4

Reducing Union



Nom. Dia. D	Nom. Dia. D1	D2	B	B1	B2	L	L1	L2	L3	L4	Part Numbers
6.35	3.2	2.7	14	10	14	38	24.5	15	13	10	F900-F-6.35×3.2
9.52	3.2	2.7	17	10	17	41	26.5	17.5	13	10.5	F900-F-9.52×3.2
9.52	6.35	5	17	14	17	43	28	17.5	15	10.5	F900-F-9.52×6.35
12.7	6.35	5	22	14	22	48.5	30.5	24	15	9.5	F900-F-12.7×6.35
12.7	9.52	7.5	22	17	22	50.5	31.5	24	17.5	9	F900-F-12.7×9.52
19.05	6.35	5	29	14	29	51.5	33.5	25.2	15	11.3	F900-F-19.05×6.35
19.05	9.52	7.5	29	17	29	53.5	34.5	25.2	17.5	10.8	F900-F-19.05×9.52
19.05	12.7	10	29	22	29	57.5	35.5	25.2	24	8.3	F900-F-19.05×12.7
25.4	19.05	15.7	38	29	35	60.5	38.1	31.2	24.4	4.9	F900-F-25.4×19.05

Bulkhead Union

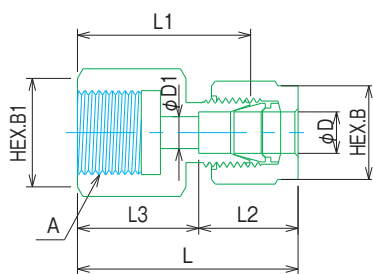


※ Please finish the panel hole diameter to a basic dims ($^{+0.5}$).

Nom. Dia. D	Panel Hole Dia.	D1	B	B1	L	L1	L2	L3	L4	Part Numbers
3.2	8	2.7	10	12	49	36	29	13	23	F900-P-3.2
6.35	11.2	5	14	14	56	42	33	15	26	F900-P-6.35
9.52	14.3	7.5	17	19	63	47	37	17.5	28	F900-P-9.52
12.7	19.1	10	22	23	72	50	40.5	24	24	F900-P-12.7
19.05	25.5	16	29	32	81	59	46.5	25.2	30.6	F900-P-19.05
25.4	33.7	22.4	38	41	95.8	71.4	57.4	31.2	33.4	F900-P-25.4

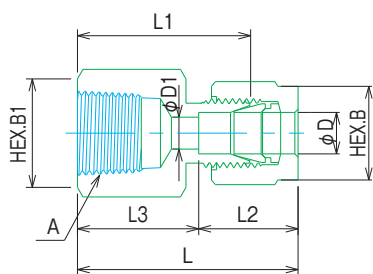
(unit: mm)

Female Connector (G Thread)



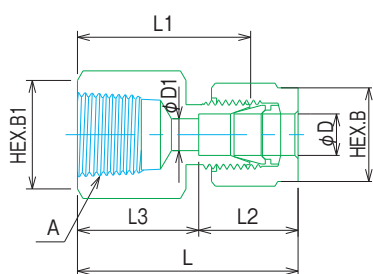
Norm. Dia. D	A	D1	B	B1	L	L1	L2	L3	Part Numbers
3.2	G1/8	5.5	10	14	29	22.5	13	16	F900-G-3.2AF
3.2	G1/4	5.5	10	17	32	25.5	13	19	F900-G-3.2BF
6.35	G1/8	5.5	14	14	31	24	15	16	F900-G-6.35AF
6.35	G1/4	5.5	14	17	34	27	15	19	F900-G-6.35BF
6.35	G3/8	5.5	14	21	36	29	15	21	F900-G-6.35CF
6.35	G1/2	5.5	14	26	40	33	15	25	F900-G-6.35DF
9.52	G1/8	5.5	17	17	33	25	17.5	15.5	F900-G-9.52AF
9.52	G1/4	5.5	17	17	36	28	17.5	18.5	F900-G-9.52BF
9.52	G3/8	5.5	17	21	38	30	17.5	20.5	F900-G-9.52CF
9.52	G1/2	5.5	17	26	42	34	17.5	24.5	F900-G-9.52DF
12.7	G1/8	5.5	22	22	37	26	24	13	F900-G-12.7AF
12.7	G1/4	5.5	22	22	40	29	24	16	F900-G-12.7BF
12.7	G3/8	5.5	22	22	42	31	24	18	F900-G-12.7CF
12.7	G1/2	5.5	22	26	46	35	24	22	F900-G-12.7DF

Female Connector (Rc Thread)



Norm. Dia. D	A	D1	B	B1	L	L1	L2	L3	Part Numbers
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

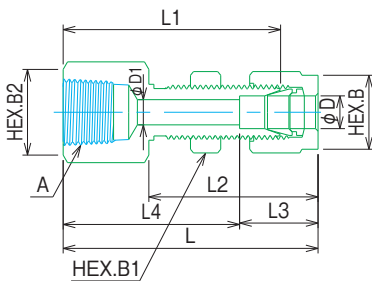
Female Connector (NPT Thread)



Norm. Dia. D	A	D1	B	B1	L	L1	L2	L3	Part Numbers
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

(unit: mm)

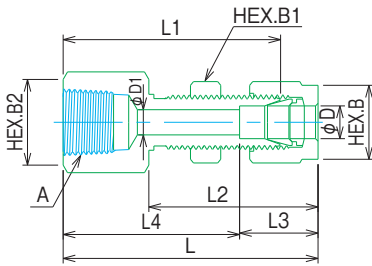
Bulkhead Female Connector (Rc Thread)



※ Please finish the panel hole diameter to a basic dims (^{+0.05}).

Nom. Dia. D	A	Panel Hole Dia.	D1	B	B1	B2	L	L1	L2	L3	L4	Part Numbers
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

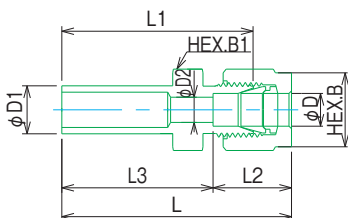
Bulkhead Female Connector (NPT Thread)



※ Please finish the panel hole diameter to a basic dims (^{+0.05}).

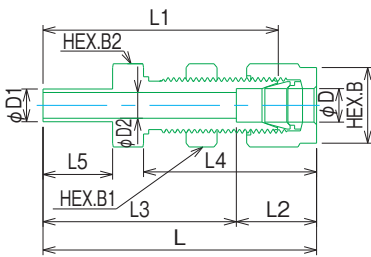
Nom. Dia. D	A	Panel Hole Dia.	D1	B	B1	B2	L	L1	L2	L3	L4	Part Numbers
3.2	1/8NPT	8	2.7	10	12	14	43	36.5	29	13	30	F900-GP-3.2AN
3.2	1/4NPT	8	2.7	10	12	17	46	39.5	29	13	33	F900-GP-3.2BN
6.35	1/8NPT	11.2	5	14	14	14	47	40	33	15	32	F900-GP-6.35AN
6.35	1/4NPT	11.2	5	14	14	17	50	43	33	15	35	F900-GP-6.35BN
6.35	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

Reducing Union



Nom. Dia. D	D1	D2	B	B1	L	L1	L2	L3	Part Numbers
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

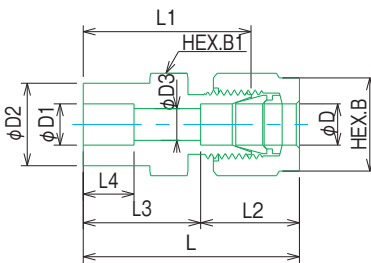
Bulkhead Reducing Union



※ Please finish the panel hole diameter to a basic dimens (+0^{0.05}).

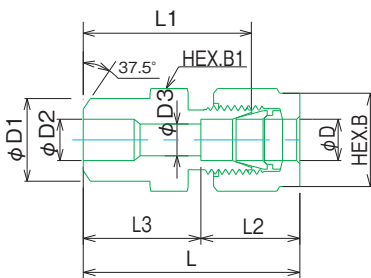
Norm. Dia. D	Panel Hole Dia.	D1	D2	B	B1	B2	L	L1	L2	L3	L4	L5	Part Numbers
3.2	8	3.2	1.8	10	12	12	47.5	41	13	34.5	29	13.5	F900-RP-3.2×3.2
6.35	11.2	6.35	4.5	14	14	14	55	48	15	40	33	16	F900-RP-6.35×6.35
9.52	14.3	9.52	7	17	19	19	62	54	17.5	44.5	37	18	F900-RP-9.52×9.52
12.7	19.1	12.7	10	22	23	23	73.5	62.5	24	49.5	40.5	24.5	F900-RP-12.7×12.7

Socket Weld Reducing Union



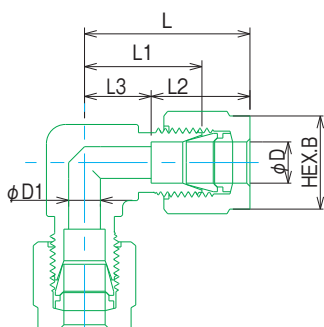
Norm. Dia. D	D1	D2	D3	B	B1	L	L1	L2	L3	L4	Part Numbers
3.2	3.3	8	2.7	10	10	28.5	22	13	15.5	6.5	F900-R-3.2×3.2F
6.35	6.5	13	5	14	14	33.5	26.5	15	18.5	8	F900-R-6.35×6.35F
9.52	9.7	16	7.5	17	17	38	30	17.5	20.5	10	F900-R-9.52×9.52F
12.7	12.9	21	10	22	22	43	32	24	19	13	F900-R-12.7×12.7F

Butt Weld Reducing Union



Norm. Dia. D	D1	D2	D3	B	B1	L	L1	L2	L3	Part Numbers
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

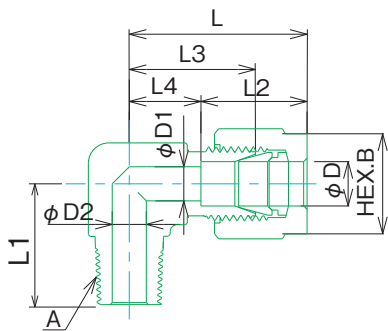
Elbow Union



Norm. Dia. D	D1	B	L	L1	L2	L3	Part Numbers
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
19.05	16	29	41	30	25.2	15.8	F900-L-19.05
25.4	22.4	38	49	36.8	31.2	17.8	F900-L-25.4

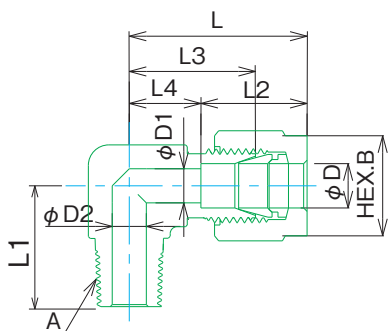
(unit: mm)

Male Elbow (R Thread)



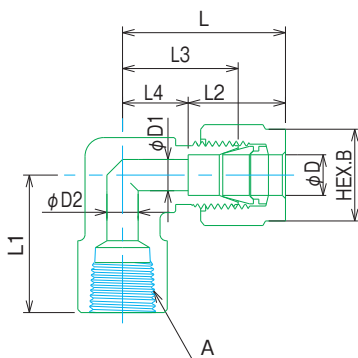
Nom. Dia. D	A	D1	D2	B	L	L1	L2	L3	L4	Part Numbers
3.2	R1/8	2.7	5	10	23.5	20	13	17	10.5	F900-L-3.2A
3.2	R1/4	2.7	5	10	23.5	22	13	17	10.5	F900-L-3.2B
6.35	R1/8	5	5	14	25.5	20	15	18.5	10.5	F900-L-6.35A
6.35	R1/4	5	5	14	25.5	22	15	18.5	10.5	F900-L-6.35B
6.35	R3/8	5	5	14	29	25	15	22	14	F900-L-6.35C
6.35	R1/2	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
19.05	R3/8	16	10	29	41	32	30	25.2	15.8	F900-L-19.05C
19.05	R1/2	16	12.7	29	41	35	30	25.2	15.8	F900-L-19.05D
19.05	R3/4	16	16	29	41	37	30	25.2	15.8	F900-L-19.05E
25.4	R3/4	22.4	15.7	38	49	41.7	31.2	36.8	17.8	F900-L-25.4E
25.4	R1	22.4	22.4	38	49	46.5	31.2	36.8	17.8	F900-L-25.4F

Male Elbow (NPT Thread)



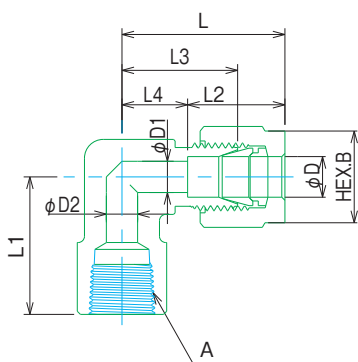
Nom. Dia. D	A	D1	D2	B	L	L1	L2	L3	L4	Part Numbers
3.2	1/8NPT	2.7	5	10	23.5	20	13	17	10.5	F900-L-3.2AN
3.2	1/4NPT	2.7	5	10	23.5	22	13	17	10.5	F900-L-3.2BN
6.35	1/8NPT	5	5	14	25.5	20	15	18.5	10.5	F900-L-6.35AN
6.35	1/4NPT	5	5	14	25.5	22	15	18.5	10.5	F900-L-6.35BN
6.35	3/8NPT	5	5	14	29	25	15	22	14	F900-L-6.35CN
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
19.05	3/8NPT	16	10	29	41	32	25.2	30	15.8	F900-L-19.05CN
19.05	1/2NPT	16	12.7	29	41	35	25.2	30	15.8	F900-L-19.05DN
19.05	3/4NPT	16	16	29	41	37	25.2	30	15.8	F900-L-19.05EN

Female Elbow (Rc Thread)



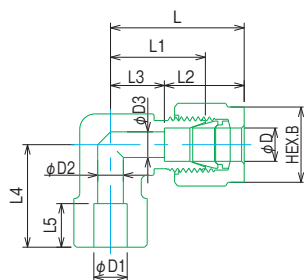
Nom. Dia. D	A	D1	D2	B	L	L1	L2	L3	L4	Part Numbers
3.2	Rc1/8	2.7	7	10	23.5	20	13	17	10.5	F900-LG-3.2A
3.2	Rc1/4	2.7	7	10	26	22	13	19.5	13	F900-LG-3.2B
6.35	Rc1/8	5	7	14	25.5	20	15	18.5	10.5	F900-LG-6.35A
6.35	Rc1/4	5	7	14	29	22	15	22	14	F900-LG-6.35B
6.35	Rc3/8	5	7	14	32	26	15	25	17	F900-LG-6.35C
9.52	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 Thread)



Nom. Dia. D	A	D1	D2	B	L	L1	L2	L3	L4	Part Numbers
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

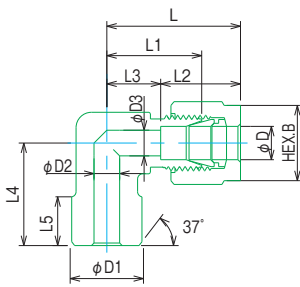
Socket Weld Elbow Reducing Union



Nom. Dia. D	D1	D2	D3	B	L	L1	L2	L3	L4	L5	Part Numbers
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

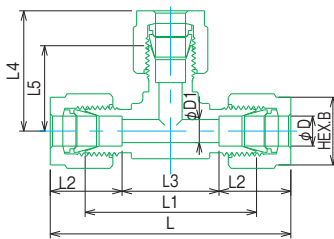
(unit: mm)

Butt Weld Elbow Reducing Union



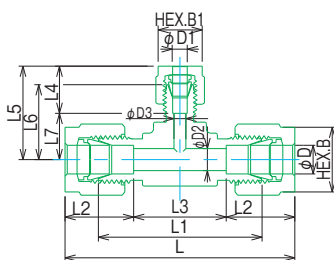
Nom. Dia. D	D1	D2	D3	B	L	L1	L2	L3	L4	L5	Part Numbers
6.35	10.3	4.8	5	14	25.5	18.5	15	10.5	20	11	F900-LR-6.35x10.3M
6.35	13.7	7.1	5	14	25.5	18.5	15	10.5	22	13	F900-LR-6.35x13.7M
9.52	13.7	7.1	7.5	17	30	22	17.5	12.5	25	13	F900-LR-9.52x13.7M
12.7	21.3	13.2	10	22	36	25	24	12	32	17	F900-LR-12.7x21.35M

Tee Union



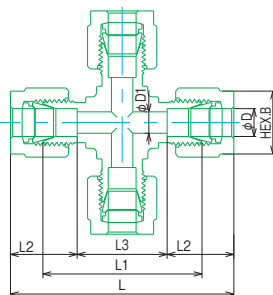
Nom. Dia. D	D1	B	L	L1	L2	L3	L4	L5	Part Numbers
3.2	2.7	10	47	34	13	21	23.5	17	F900-T-3.2
6.35	5	14	51	37	15	21	25.5	18.5	F900-T-6.35
9.52	7.5	17	60	44	17.5	25	30	22	F900-T-9.52
12.7	10	22	72	50	24	24	36	25	F900-T-12.7
19.05	16	29	82	60	25.2	31.6	41	30	F900-T-19.05
25.4	22.4	38	98	73.6	31.2	35.6	49	36.8	F900-T-25.4

Reducing Tee Union



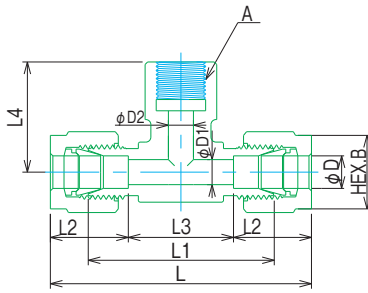
Nom. Dia. D	Nom. Dia. D1	D2	D3	B	B1	L	L1	L2	L3	L4	L5	L6	L7	Part Numbers
9.52	6.35	7.5	5	17	14	60	44	17.5	25	15	29	22	14	F900-T-9.52x9.52x6.35
12.7	6.35	10	5	22	14	72	50	24	24	15	32	25	17	F900-T-12.7x12.7x6.35
12.7	9.52	10	7.5	22	17	72	50	24	24	17.5	33	25	15.5	F900-T-12.7x12.7x9.52
19.05	6.35	16	5	29	14	82	60	25.2	31.6	15	37	30	22	F900-T-19.05x19.05x6.35
19.05	9.52	16	7.5	29	17	82	60	25.2	31.6	17.5	38	30	20.5	F900-T-19.05x19.05x9.52
19.05	12.7	16	10	29	22	82	60	25.2	31.6	24	41	30	17	F900-T-19.05x19.05x12.7
25.4	19.05	22.4	16	38	29	97.9	73.6	31.2	35.5	25.2	47.8	36.8	22.6	F900-T-25.4x25.4x19.05

Cross Union



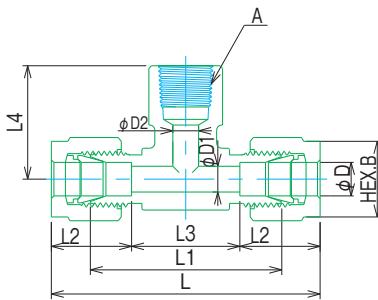
Nom. Dia. D	D1	B	L	L1	L2	L3	Part Numbers
3.2	2.7	10	47	34	13	21	F900-X-3.2
6.35	5	14	51	37	15	21	F900-X-6.35
9.52	7.5	17	60	44	17.5	25	F900-X-9.52
12.7	10	22	72	50	24	24	F900-X-12.7

Female Branch Tee (G Thread)



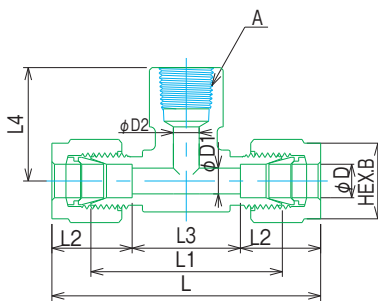
Nom. Dia. D	A	D1	D2	B	L	L1	L2	L3	L4	Part Numbers
3.2	G1/8	2.7	5.5	10	47	34	13	21	22	F900-TG-3.2AF
3.2	G1/4	2.7	5.5	10	52	39	13	26	25.5	F900-TG-3.2BF
6.35	G1/8	5	5.5	14	51	37	15	21	22	F900-TG-6.35AF
6.35	G1/4	5	5.5	14	58	44	15	28	25.5	F900-TG-6.35BF
6.35	G3/8	5	5.5	14	64	50	15	34	32	F900-TG-6.35CF
9.52	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)



Nom. Dia. D	A	D1	D2	B	L	L1	L2	L3	L4	Part Numbers
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
19.05	Rc3/8	16	12	29	82	60	25.2	31.6	32	F900-TG-19.05C
19.05	Rc1/2	16	16	29	82	60	25.2	31.6	32	F900-TG-19.05D

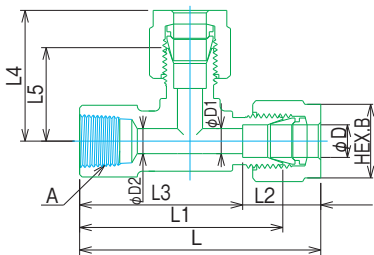
Female Branch Tee (NPT Thread)



Nom. Dia. D	A	D1	D2	B	L	L1	L2	L3	L4	Part Numbers
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

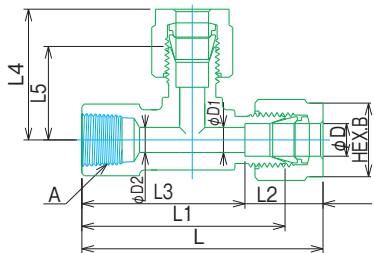
(unit: mm)

Female Run Tee (Rc Thread)



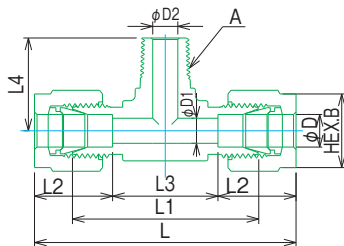
Nom. Dia. D	A	D1	D2	B	L	L1	L2	L3	L4	L5	Part Numbers
3.2	Rc1/8	2.7	7	10	43.5	37	13	30.5	23.5	17	F900-TLG-3.2A
3.2	Rc1/4	2.7	7	10	48	41.5	13	35	26	19.5	F900-TLG-3.2B
6.35	Rc1/8	5	7	14	45.5	38.5	15	30.5	25.5	18.5	F900-TLG-6.35A
6.35	Rc1/4	5	7	14	51	44	15	36	29	22	F900-TLG-6.35B
6.35	Rc3/8	5	7	14	58	51	15	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 Thread)



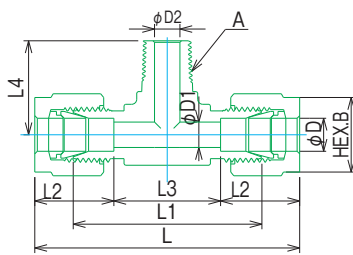
Nom. Dia. D	A	D1	D2	B	L	L1	L2	L3	L4	L5	Part Numbers
3.2	1/8NPT	2.7	7	10	43.5	37	13	30.5	23.5	17	F900-TLG-3.2AN
3.2	1/4NPT	2.7	7	10	48	41.5	13	35	26	19.5	F900-TLG-3.2BN
6.35	1/8NPT	5	7	14	45.5	38.5	15	30.5	25.5	18.5	F900-TLG-6.35AN
6.35	1/4NPT	5	7	14	51	44	15	36	29	22	F900-TLG-6.35BN
6.35	3/8NPT	5	7	14	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)



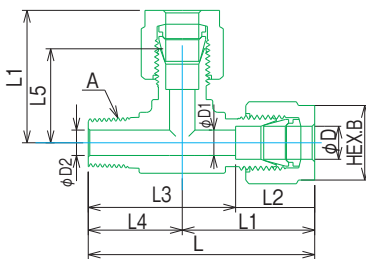
Nom. Dia. D	A	D1	D2	B	L	L1	L2	L3	L4	Part Numbers
3.2	R1/8	2.7	5	10	47	34	13	21	20	F900-TS-3.2A
3.2	R1/4	2.7	5	10	47	34	13	21	22	F900-TS-3.2B
6.35	R1/8	5	5	14	51	37	15	21	20	F900-TS-6.35A
6.35	R1/4	5	5	14	51	37	15	21	22	F900-TS-6.35B
6.35	R3/8	5	5	14	58	44	15	28	25	F900-TS-6.35C
6.35	R1/2	5	5	14	64	50	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

Male Branch Tee (NPT Thread)



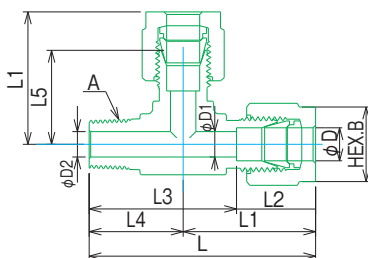
Nom. Dia. D	A	D1	D2	B	L	L1	L2	L3	L4	Part Numbers
3.2	1/8NPT	2.7	5	10	47	34	13	21	20	F900-TS-3.2AN
3.2	1/4NPT	2.7	5	10	47	34	13	21	22	F900-TS-3.2BN
6.35	1/8NPT	5	5	14	51	37	15	21	20	F900-TS-6.35AN
6.35	1/4NPT	5	5	14	51	37	15	21	22	F900-TS-6.35BN
6.35	3/8NPT	5	5	14	58	44	15	28	25	F900-TS-6.35CN
6.35	1/2NPT	5	5	14	64	50	15	34	32	F900-TS-6.35DN
9.52	1/8NPT	7.5	5	17	60	44	17.5	25	24	F900-TS-9.52AN
9.52	1/4NPT	7.5	7.5	17	60	44	17.5	25	24	F900-TS-9.52BN
9.52	3/8NPT	7.5	7.5	17	60	44	17.5	25	25	F900-TS-9.52CN
9.52	1/2NPT	7.5	7.5	17	66	50	17.5	31	32	F900-TS-9.52DN
12.7	1/8NPT	10	5	22	72	50	24	24	29	F900-TS-12.7AN
12.7	1/4NPT	10	7.5	22	72	50	24	24	29	F900-TS-12.7BN
12.7	3/8NPT	10	10	22	72	50	24	24	29	F900-TS-12.7CN
12.7	1/2NPT	10	10	22	72	50	24	24	32	F900-TS-12.7DN

Male Run Tee (R Thread)



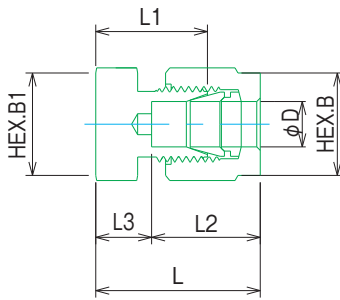
Nom. Dia. D	A	D1	D2	B	L	L1	L2	L3	L4	L5	Part Numbers
3.2	R1/8	2.7	5	10	43.5	23.5	13	30.5	20	17	F900-TL-3.2A
3.2	R1/4	2.7	5	10	45.5	23.5	13	32.5	22	17	F900-TL-3.2B
6.35	R1/8	5	5	14	45.5	25.5	15	30.5	20	18.5	F900-TL-6.35A
6.35	R1/4	5	5	14	47.5	25.5	15	32.5	22	18.5	F900-TL-6.35B
6.35	R3/8	5	5	14	54	29	15	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

Male Run Tee (NPT Thread)



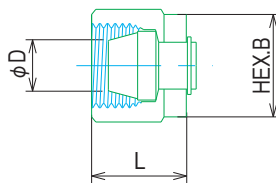
Nom. Dia. D	A	D1	D2	B	L	L1	L2	L3	L4	L5	Part Numbers
3.2	1/8NPT	2.7	5	10	43.5	23.5	13	30.5	20	17	F900-TL-3.2AN
3.2	1/4NPT	2.7	5	10	45.5	23.5	13	32.5	22	17	F900-TL-3.2BN
6.35	1/8NPT	5	5	14	45.5	25.5	15	30.5	20	18.5	F900-TL-6.35AN
6.35	1/4NPT	5	5	14	47.5	25.5	15	32.5	22	18.5	F900-TL-6.35BN
6.35	3/8NPT	5	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

Cap Union



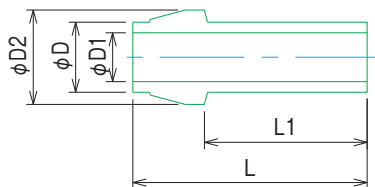
Nom. Dia. D	B	B1	L	L1	L2	L3	Part Numbers
3.2	10	10	20	13.5	13	7	F900-JC-3.2
6.35	14	14	23	16	15	8	F900-JC-6.35
9.52	17	17	26	18	17.5	8.5	F900-JC-9.52
12.7	22	22	31.5	20.5	24	7.5	F900-JC-12.7

Plug Union



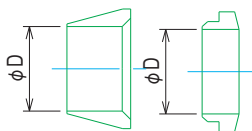
Nom. Dia. D	B	L	Part Numbers
3.2	10	12	F900-JP-3.2
6.35	14	13	F900-JP-6.35
9.52	17	14.5	F900-JP-9.52
12.7	22	18.2	F900-JP-12.7
19.05	29	19	F900-JP-19.05
25.4	38	20.7	F900-JP-25.4

Port Connector



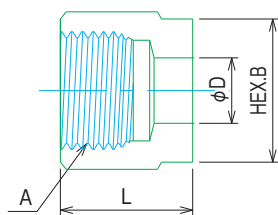
Nom. Dia. D	D1	D2	L	L1	Part Numbers
3.2	1.8	6.2	25	16	F900-PC-3.2
6.35	4.5	9.4	28	19	F900-PC-6.35
9.52	7	12.6	30.5	21.5	F900-PC-9.52
12.7	10	17.4	42	28.5	F900-PC-12.7
19.05	15	23.7	44	30.5	F900-PC-19.05
25.4	21	30	51	35.7	F900-PC-25.4

Front Ring & Back Ring



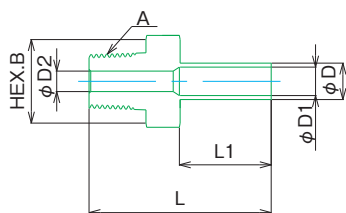
Nom. Dia. D	Part Numbers
3.2	F900-3.2S.R
6.35	F900-6.35S.R
9.52	F900-9.52S.R
12.7	F900-12.7S.R
19.05	F900-19.05S.R
25.4	F900-25.4S.R

Nut



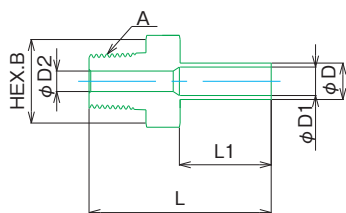
Nom. Dia. D	A	B	L	Part Numbers
3.2	5/16-20UN	10	12	F900-3.2N
6.35	7/16-20UNF	14	13	F900-6.35N
9.52	9/16-20UN	17	14.5	F900-9.52N
12.7	3/4-20UNEF	22	18.2	F900-12.7N
19.05	1-20UNEF	29	19	F900-19.05N
25.4	1-5/16-20UN	38	20.7	F900-25.4N

Tube Adapter (R Thread)



Nom. Dia. D	A	D1	D2	B	L	L1	Part Numbers
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
19.05	R3/8	15	10	22	50	26	F900-AT-19.05C
19.05	R1/2	15	15	23	53	26	F900-AT-19.05D
19.05	R3/4	15	15	29	55	26	F900-AT-19.05E

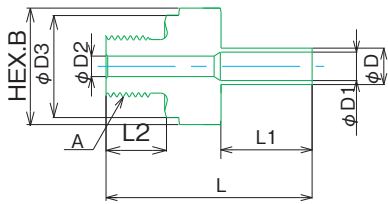
Tube Adapter (NPT Thread)



Nom. Dia. D	A	D1	D2	B	L	L1	Part Numbers
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

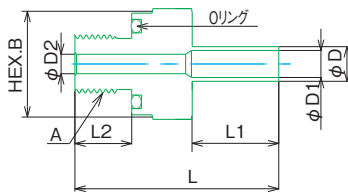
(unit: mm)

Male Tube Adapter (G Thread)



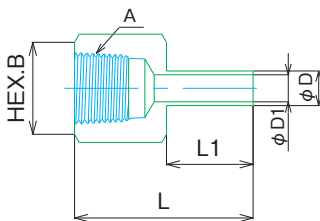
Nom. Dia. D	A	D1	D2	D3	B	L	L1	L2	Part Numbers
3.2	G1/8	1.8	4	13.7	14	28.9	13.5	7.4	F900-AT-3.2AF
3.2	G1/4	1.8	5	18.7	19	34.4	13.5	11	F900-AT-3.2BF
6.35	G1/8	4.5	4	13.7	14	31.4	16	7.4	F900-AT-6.35AF
6.35	G1/4	4.5	5	18.7	19	36.9	16	11	F900-AT-6.35BF
9.52	G1/4	7	5	18.7	19	38.9	18	11	F900-AT-9.52BF
9.52	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)



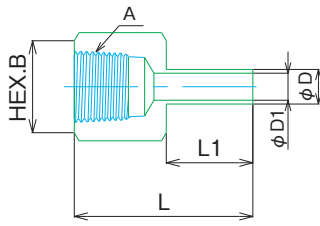
Nom. Dia. D	A	D1	D2	B	L	L1	L2	O-Ring Size	Part Numbers
3.2	5/16-24UNF	1.8	4	14	31	13.5	8.5	P8	F900-AT-3.2x5/16-24-OR
6.35	7/16-20UNF	4.5	4.5	19	36.5	16	10.5	P12.5	F900-AT-6.35x7/16-20-OR
9.52	9/16-18UNF	7	7	26	41	18	12	P18	F900-AT-9.52x9/16-18-OR
12.7	3/4-16UNF	10	10	29	48.5	24.5	12	P21	F900-AT-12.7x3/4-16-OR

Tube Gauge Adapter (Rc Thread)



Nom. Dia. D	A	D1	B	L	L1	Part Numbers
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 Thread)



Nom. Dia. D	A	D1	B	L	L1	Part Numbers
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 has been designed for superior pressure resiliency and sealing performance, and it is fundamental reliability and safety that the FINELOK·PURE Series 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 achieve optimal FINELOK·PURE Series performance, select a tube with a wall thickness greater than the minimum wall thickness listed in the table to the left.

Nominal Diameter	Minimum Wall Thickness (mm)
1/8OD(3.2)	0.5
1/4OD(6.35)	0.88
3/8OD(9.52)	1.00
1/2OD(12.7)	1.24
3/4OD(19.05)	1.65
1OD(25.4)	2.11

Note: Please contact **Fujikin** if you need to use tubes with thinner walls than those listed.

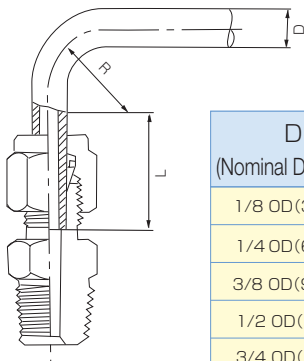
● 1-3 Tube Hardness

Tubes used with F900 Tube Fitting series must be Hv 200 or less. Although tubes with 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.

For tubes with a bright anneal finish, the hardness should be approximately Hv160.

● 1-4 Tube Bending Dimensions

Before tightening F900 Tube Fitting series, the end of the tube must be flush against the shoulder the body hex. Therefore, when installing fittings near tube bends, hex. Therefore, when installing of fittings near tube bends, allow for proper installation (see the table to the left).



D (Nominal Diameter)	L		R (Minimum Dimension)
	L1	L2	
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
3/4 OD(19.05)	33	27	76.2
1/2 OD(25.4)	38	33	88.9

L1: Recommended straight tube length.
L2: Minimum straight tube length.

● 1-5 SUS304 & SUS316 Tube Maximum Pressure (MPa)

Nom. Dia (mm)	Nominal Tube Wall Thickness (mm)	Material	0.72	0.89	1	1.24	1.65	2.11
			1/8OD (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)	—	—	—	
1/4OD (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)	—	—	
3/8OD (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)	—	
1/2OD (12.7)	SUS304	—	—	—	27.2(19.9)	37.2(27.3)	—	
	SUS316	—	—	—	27.2(21.2)	37.2(28.9)	—	
3/4OD (19.05)	SUS304	—	—	—	—	21.4(17.1)	—	
	SUS316	—	—	—	—	21.4(17.7)	—	
1OD (25.4)	SUS304	—	—	—	—	—	20.3(16.2)	
	SUS316	—	—	—	—	—	20.3(16.9)	

Note: The values above are maximum pressure 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 : JISG 3459 SUS304 and SUS316.
- (2) Bright annealed tube.
- (3) Inner and outer tube surfaces are specially processed to impact a lustrous, shiny surface.
Inner surface roughness is less than 4S (more than 1/4 O.D. of nominal diameter).
- (4) Tube wrap is 1mm per 1m maximum.
- (5) Standard dimensions and tolerances.

UNIT[mm]

Nominal Diameter	Dimensional Tolerance	Dimensional Tolerance			
		O.D.	Wall Thickness	Circularity	Length
1/8OD(3.2) × 0.72t	+0.05 0	±0.05	0.03	+5 0	
1/4OD(6.35) × 0.89t	+0.05	±0.05	0.03	+5	
1/4OD(6.35) × 1t	0	±0.05	0.03	0	
3/8OD(9.52) × 1t	+0.05 0	±0.05	0.03	+5 0	
1/2OD(12.7) × 1.24t	+0.05 0	±0.05	0.03	+5 0	
3/4OD(19.05) × 1.65t	+0.07 0	±0.16	0.03	+5 0	
1OD(25.4) × 2.11t	±0.3	±0.2	Non-measurement	+5 0	

- (6) 2m and 4m are also stock as standard tube length.

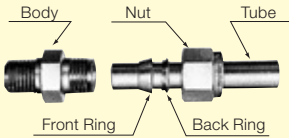
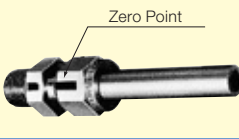
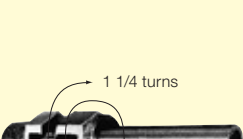
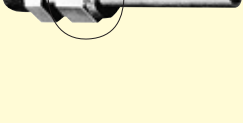
Please contact **Fujikin** for alternate dimensions or other materials (such as SUS 316L).

Installation Guide

2-1 Before Installation

1. Use an austenitic stainless steel tube with a seamless bright anneal finish, a hardness of Hv200 or less, and a tolerance within $\pm 0.05\text{mm}$ of the tube OD.
2. Please refer to the "Tube Technical Data, 1-2: Minimum Tube Wall Thickness" on page 21 for tube thicknesses.
3. There should be no visible scratches 30mm from either end of the tube. Remove any foreign matter.
4. Avoid abrading the tube.
5. Before assembling the fittings, cut the tubes to the required length.
6. Use a tube cutter to cut the tube. If it is necessary to use a different method, be sure to cut the tube at a right angle, and then remove burrs carefully from the outer circumference by filing at a 45° angle to the centerline.
7. Tube cutter blades should be replaced regularly to maintain sharpness.

2-2 Tightning Procedure

①		<p>Ensure that the parts are installed in the order shown in the picture (left).</p>
②		<p>Insert the tube completely until it makes contact with the body. Hand-tighten the nut until it cannot be tightened further. After manually tightening the nut, mark both the body and the nut. This point is the Zero Point.</p>
③		<p>With a wrench, tighten the nut 1 1/4 turns from the zero point. Assembly is then complete.</p>
④		<p>Ensure that the fittings are securely tightened. Check please the zero point marking after tightening.</p>

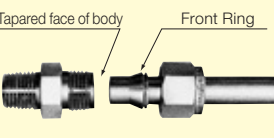
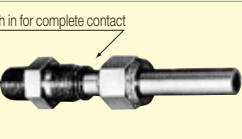
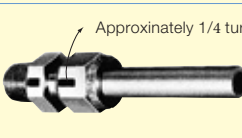
Smaller size Fittings, Plugs and Port Connectors tightening procedure

1. Fittings with nominal diameters of 3.2mm (1/8OD) or smaller: hand-tighten the Nut, then using a wrench only 1/4 turn only. 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 Preparations: Before Operation

1. For tightening, use the appropriate wrench.
2. Before tightening the fitting, ensure that its body has been secured using a wrench. Never hold the Nut in place while attempting to tighten the Body.
3. Before adjusting the orientation (installation angle) of a fitting that has already been tightened into place, be sure to loosen the Nut sufficiently.
4. Before tightening the fitting, ensure that the tube and the fitting are properly aligned.
5. If the fitting (or any of its components) are dropped accidentally, ensure that the parts have no scratches or foreign matter on them before use.
6. For tightening tee or elbow fittings, use a Tee Wrench whenever possible.
7. If tightening the fitting is difficult, first attach the Front and Back Ring the tube. Then, insert the front ferrule into the body until it reaches the body threads, and manually tighten the Nut.
8. Front and Back Rings are available in a wide variety of sizes, in both metric and fractional inch measurements. Using Rings of the incorrect size can cause leakage. Ensure that the Rings type and size are correct before installation.

2-4 Re-Tightening After Removal

①		<p>Before reinserting, confirm there is no foreign material on either the tapered face of the Body or on the Front Ring.</p>
②		<p>After the Front Ring makes complete contact, hand-tighten the Nut.</p>
③		<p>Using a wrench, tighten an additional quarter-turn. Complete! Note: After reassembly, the Body and the Nut should return to their original position, tightened or be slightly further.</p>

2-5 Specialized Tools

1. Tee Wrench (pat. pending)



This tool is used to adjust tees and elbows when a conventional wrench would not provide adequate support. This tool can also be used to hold the fitting securely, making installation easier.

2. Special Wrench



This Special Fitting Wrench has a slimmer head, is easier to apply force with, and reduces user fatigue.

3. Preswaging Tool



The **Fujikin** designed Preswaging Tool allows Rings be tightened properly in situations in which tightening is difficult, such as the installation of piping in ceilings, under floors, or in complicated assemblies.

4. Tube Cutter (pat. pending)



This Tube Cutter assures a clean cut, and the special rollers leave virtually no marks on the tube. **Fujikin** recommends this tool for flareless fittings.

5. Adjustable Wrench



Fujikin recommends this wrench from Lobtex Co. Ltd., which has a slim head and a comfortable grip for easier installation.

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 noticeable damaging surface precision.

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