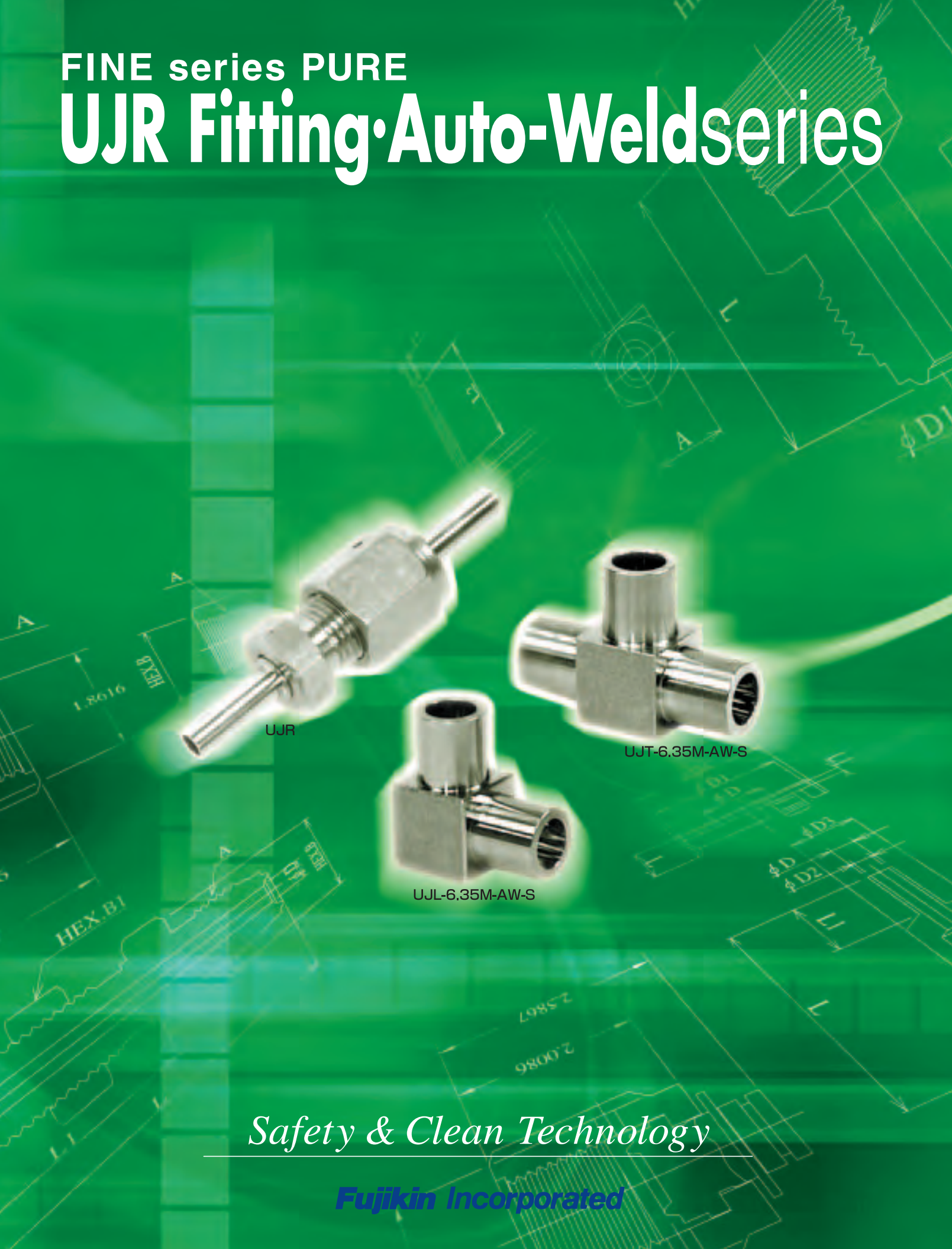
FINE series PURE

UJR Fitting·Auto-Weldseries



Safety & Clean Technology

Fujikin Incorporated

Safety & Clean Technology

Pursuing the Ultimate in Reliability: The Fujikin UJR Series

The Fujikin UJR gasket fitting 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 UJR gasket fitting series are precision union tube fittings that create a seal by welding the tube to the sleeve, interposing a metal gasket between the end sealing part and body sealing part of the sleeve, and tightening the union nut.

Fujikin Incorporated

FITTING LIST

Ultra-Compact Auto-Weld Short Sleeve 5

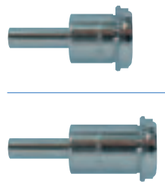
Ultra-Compact Auto-Weld Short Sleeve 5

Ultra-Compact Auto-Weld Short Sleeve 5

Auto-Weld Sleeve 5

Auto-Weld Sleeve 6

Auto-Weld Sleeve 6


Auto-Weld Reducing Sleeve 6

Auto-Weld Reducing Sleeve 6

Sleeve 7

Reducing Sleeve 7

Male Sleeve 7

Reducing Male Sleeve 7

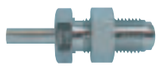
Tube Adapter Sleeve 8

Straight Union Body 8

Reducing Straight Union Body 8

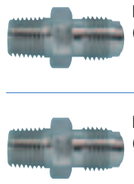
Bulkhead Union Body 8

Special Reducing Union Body 9


Reducing Bulkhead Union Body 9

Finelok® Connector 9

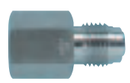
Finelok® Bulkhead Connector 9


Male Connector (R Thread) 10

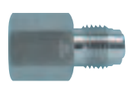
Male Connector (NPT Thread) 10

O-Ring Type Male Connector (UNF Thread) 10

O-Ring Type Male Connector (UNF Thread) 10


Female Connector (G Thread) 11

Female Connector (Rc Thread) 11


Female Connector (NPT Thread) 11

Male Elbow Union Body 11

Male Elbow Body (R Thread) 12

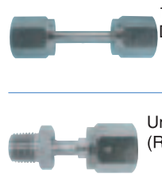
Male Elbow (NPT Thread) 12

Tee Union Body 12

Cross Union Body 12

16.2MPa Double Sleeve 13

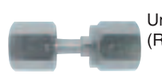
1MPa Double Sleeve 13


16.2MPa Double Sleeve 13

Union Male Connector (R Thread) 13

Union Male Connector (NPT Thread) 14

Union Female Connector (G Thread) 14


Union Female Connector (Rc Thread) 14

Union Female Connector (NPT Thread) 14

Gasket With Retainer 15

Gasket 15

Blind Gasket With Retainer 15

Blind Gasket 15

Purering® 16

Union Nut 16

Long Union Nut 16

Coupling Body 16

Blind Sleeve 17

Cap Union Body 17

OPTION

Orifice-Type Straight Union Body 18

OPTION

Orifice-Type Gasket 18

OPTION

High-Flow Type Reducing Sleeve 18

OPTION

Nut For High-Flow Valve 18

OPTION

Coupling Body For High-Flow Type 18

OPTION

Plug Union 19

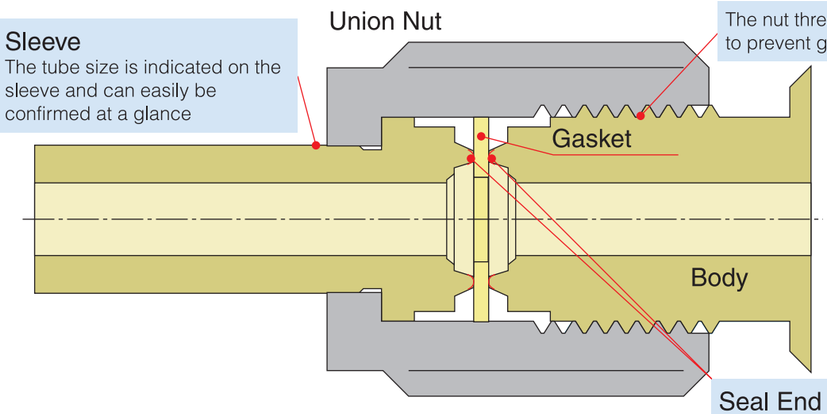
OPTION

1MPa Plug Union With Purering® 19

OPTION

16.2MPa Plug Union With Purering® 19

FEATURES



Sleeve
The tube size is indicated on the sleeve and can easily be confirmed at a glance

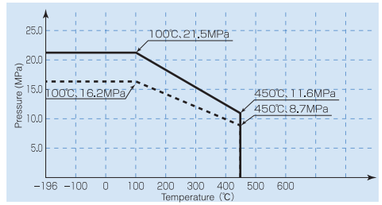
The nut threads are silver-plated to prevent galling

Seal End
Stable attachment / detachment and reliable sealing properties are achieved by means of a special hardening treatment.

SPECIFICATIONS AND MATERIALS

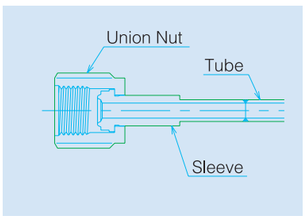
Specification	Design Pressure	21.5MPa (3,118 psi) (16.2 MPa (2,350 psi) for 12.7 nominal diameter)
	Temperature Range	−196°C～450°C (−320°F～842°F)
Materials	Body Sleeve	SUS316L (Double-melt, ultra-low Mn materials are available)
	Gasket	A total of four types are available: unplated stainless steel, unplated nickel, silver-plated stainless steel, and silver-plated nickel
	Nut	SUS316

Temperature/Pressure Rating

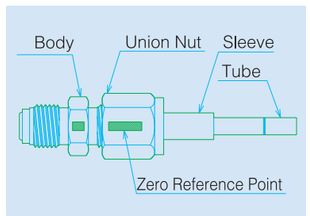


—— ϕ6.35、ϕ9.52 Nom. ---- ϕ12.7 Nom.

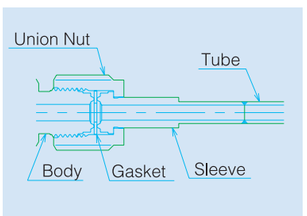
ASSEMBLY



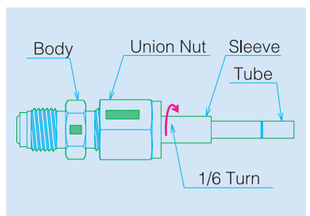
① The tube is welded to the sleeve while the union nut is attached to the sleeve.



③ Scribe a zero refererence point on the body and union nut.



② A gasket is inserted between the sleeve (which is welded to the tube) and the body. Hand-tighten until the body, gasket, and sleeve faces are in tight contact.



④ Tighten the union nut with a wrench 1/6 turn beyond the zero reference point.

Assembly is complete!

Note: If the fitting must be removed and reassembled, please follow the above procedure for reassembly. If the above procedure was utilized for the initial tightening sequence, reliable integrity is assured.
Please read these instructions carefully before assembly.

If the piping is subject to stress during assembly, hand-tightening will not assure sealing integrity. Tighten the nut with a wrench 1/6 turn after a sudden increase in torque is noticed.

PART NUMBERING DESIGNATION

UJR part numbers are defined below. Please specify the correct part number when inquiring.

Sleeve, Union Nut, and Gasket Part Number Designation

UJR - 6.35 MS - L18 - AW - S - 316LM - FD

Nominal Diameter	Part Name	Total Sleeve Length	Auto-Weld	Weld Part Length	Material	Inner Surface Treatment
				S : Short type (Blank) : Long type		

◆Part Names

MS	Male Sleeve	B	Purering®
N	Union Nut	G	Gasket

◆Materials

316LM	SUS316L double-melt, ultra-low Mn material
FS9	Ferrite-type special stainless steel
(Blank)	SUS316L single-melt

◆Inner Surface Treatment

UP	UP Treatment (Fujikin proprietary surface treatment)*
FD	Fluorine Passivation
PS	Cr_2O_3 Treatment

* As UP Treatment is standard for SS316LM materials, it is not shown as an option.

Body Part Number Designation

UJR - H - 6.35 B - UP

Connector Type	Nominal Diameter	Surface Treatment

◆Connector Type

F	Straight Union Body	H	Male Connector Body	HU	Union Male Connector Body
	Reducing Straight Union Body	G	Female Connector Body	GU	Union Female Connector Body
	Finelok® Straight Union Body	L	Elbow Union Body	C	Coupling Body
P	Bulkhead Union Body		Male Elbow Union Body	JP	Plug Union
R	Reducing Body	T	Tee Union Body	JPB	Plug Union with Purering®
RP	Reducing Bulkhead Union Body	X	Cross Union Body	JC	Cap Body
FP	Finelok® Bulkhead Union Body	S-W	Double Sleeve		

◆Thread Size

	SPECIFICATION		A	B	C	D
TAPERED THREAD*	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

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

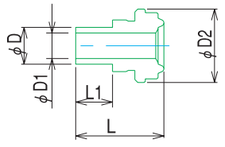
	SPECIFICATION	AN	BN	CN	DN
TAPERED THREAD	ANSI B1.20.1	1/8NPT	1/4NPT	3/8NPT	1/2NPT

	SPECIFICATION	AF	BF	CF	DF
PARALLEL THREAD	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 $1/2^{OD}$

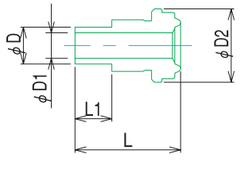
(Unit : mm)

Ultra-Compact, Auto-Weld Short Sleeve



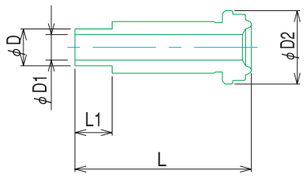
φNom.	φD Nom.	φD1	φD2	L	L1	Part Number
6.35	6.35	4.4	12.65	15.2	6.35	UJR-6.35MS-AW-S

Ultra-Compact, Auto-Weld Short Sleeve



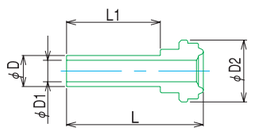
φNom.	φD Nom.	φD1	φD2	L	L1	Part Number
6.35	6.35	4.4	12.65	18.2	6.35	UJR-6.35MS-L18-AW-S
9.52	9.52	7.4	20.3	19.3	6.35	UJR-9.52MS-L19-AW-S
9.52	12.7	10.3	20.3	19.3	6.35	UJR-12.7MS-L19-AW-S

Ultra-Compact, Auto-Weld Short Sleeve



φNom.	φD Nom.	φD1	φD2	L	L1	Part Number
6.35	6.35	4.4	12.65	33.5	6.35	UJR-6.35MS-L33-AW-S
9.52	9.52	7.4	20.3	37.5	6.35	UJR-9.52MS-L37-AW-S
9.52	12.7	10.3	20.3	37.5	6.35	UJR-12.7MS-L37-AW-S

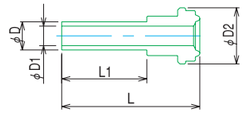
Auto-Weld Sleeve



φNom.	φD Nom.	φD1	φD2	L	L1	Part Number
6.35	6.35	4.4	12.65	28	19.05	UJR-6.35MS-L28-AW
9.52	9.52	7.4	20.3	28.45	19.05	UJR-9.52MS-L28.5-AW
9.52	12.7	10.3	20.3	28.45	19.05	UJR-12.7MS-L28.5-AW

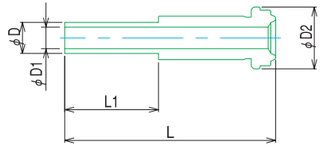
(Unit : mm)

Auto-Weld Sleeve



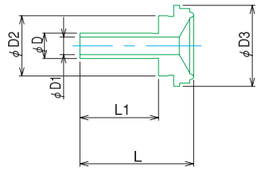
φNom.	φD Nom.	φD1	φD2	L	L1	Part Number
6.35	6.35	4.4	12.65	31	19.05	UJR-6.35MS-L31-AW
9.52	9.52	7.4	20.3	32	19.05	UJR-9.52MS-L32-AW
9.52	12.7	10.3	20.3	32	19.05	UJR-12.7MS-L32-AW

Auto-Weld Sleeve



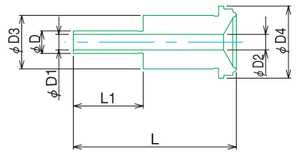
φNom.	φD Nom.	φD1	φD2	L	L1	Part Number
6.35	6.35	4.4	12.65	43.2	19.05	UJR-6.35MS-AW
9.52	9.52	7.4	20.3	45.45	19.05	UJR-9.52MS-AW
9.52	12.7	10.3	20.3	45.45	19.05	UJR-12.7MS-AW
19.05	19.05	16.57	29.1	51.5	19.05	UJR-19.05MS-AW

Auto-Weld Reducing Sleeve



φNom.	φD Nom.	φD1	φD2	φD3	L	L1	Part Number
9.52	6.35	4.4	15.1	20.3	28.45	19.05	UJR-9.52×6.35MS-L28.5-AW

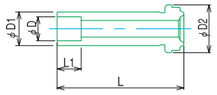
Auto-Weld Reducing Sleeve



φNom.	φD Nom.	φD1	φD2	φD3	φD4	L	L1	Part Number
9.52	6.35	4.4	4.4	15.1	20.3	45.5	19.05	UJR-9.52×6.35MS-AW
19.05	6.35	4.4	16.57	22.2	29.1	51.5	19.05	UJR-19.05×6.35MS-AW
19.05	9.52	7.4	16.57	22.2	29.1	51.5	19.05	UJR-19.05×9.52MS-AW

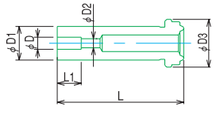
(Unit : mm)

Sleeve



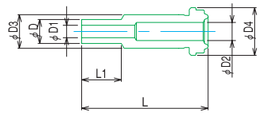
φNom.	φD Nom.	φD1	φD2	L	L1	Part Number
3.2	3.2	5.1	6.4	18	3	UJR-3.2S
6.35	6.35	8.9	12.65	33.5	7.2	UJR-6.35S
9.52	9.52	15.1	20.3	38	7.9	UJR-9.52S
9.52	12.7	15.1	20.3	38	9.7	UJR-12.7S
19.05	19.05	22.2	29.1	50.8	11.1	UJR-19.05S

Reducing Sleeve



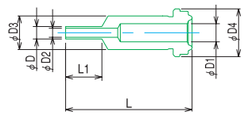
φNom.	φD Nom.	φD1	φD2	φD3	L	L1	Part Number
6.35	3.2	8.9	2.3	12.65	33.5	3	UJR-6.35×3.2S
9.52	6.35	15.1	4.8	20.3	38	7.2	UJR-9.52×6.35S

Male Sleeve



φNom.	φD Nom.	φD1	φD2	φD3	φD4	L	L1	Part Number
3.2	3.2	1.3	2.3	5	6.4	18	7.2	UJR-3.2MS
6.35	6.35	3.3	4.8	8.9	12.65	33.5	10.5	UJR-6.35MS
9.52	9.52	7.2	7.2	15.1	20.3	38	10.5	UJR-9.52MS
9.52	12.7	10.4	10.4	15.1	20.3	38	12.7	UJR-12.7MS

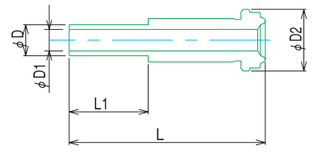
Reducing Male Sleeve



φNom.	φD Nom.	φD1	φD2	φD3	φD4	L	L1	Part Number
6.35	3.2	4.8	2.3	8.9	12.65	33.5	7.2	UJR-6.35×3.2MS
9.52	6.35	7.2	3	15.1	20.3	38	10.5	UJR-9.52×6.35MS

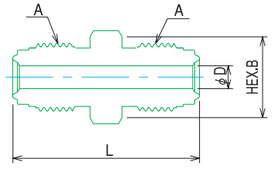
(Unit : mm)

Tube Adapter Sleeve



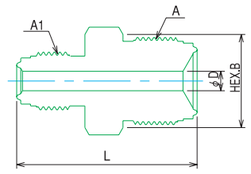
φNom.	φD Nom.	φD1	φD2	L	L1	Part Number
6.35	6.35	4.5	12.65	41	16	UJR-F6.35S
9.52	9.52	7	20.3	46	18	UJR-F9.52S
9.52	12.7	10	20.3	48.5	24.5	UJR-F12.7S

Straight Union Body



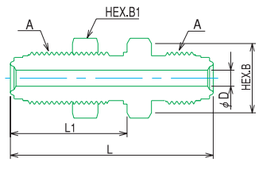
φNom.	A	φD	B	L	Part Number
3.2	5/16-24UNF	2.3	10	27.5	UJR-F-3.2
6.35	9/16-18UNF	4.8	17	39	UJR-F-6.35
9.52	7/8-14UNF	10.4	23	46	UJR-F-9.52
19.05	1 1/4-18UNEF	15.9	36	60.5	UJR-F-19.05

Reducing Straight Union Body



φNom.	φNom.	A	A1	φD	B	L	Part Number
6.35	3.2	9/16-18UNF	5/16-24UNF	2.3	17	35	UJR-F-6.35×3.2
9.52	6.35	7/8-14UNF	9/16-18UNF	4.8	23	44	UJR-F-9.52×6.35

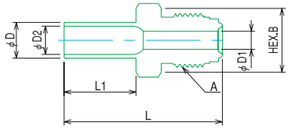
Bulkhead Union Body



φNom.	A	Panel Hole Dia	φD	B	B1	L	L1	Part Number
6.35	9/16-18UNF	14.3	4.8	19	19	55	32	UJR-P-6.35
9.52	7/8-14UNF	22.3	10.4	26	26	63.5	36.5	UJR-P-9.52
19.05	1 1/4-18UNEF	31.8	15.9	38	38	88	50	UJR-P-19.05

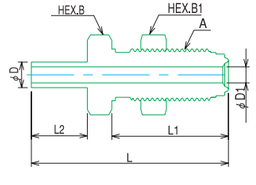
(Unit : mm)

Special Reducing Union Body



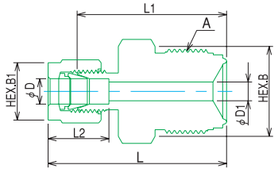
φNom.	φD Nom.	A	φD1	φD2	L	L1	B	Part Number
6.35	9.52	9/16-18UNF	4.8	7.52	42.05	19.05	17	UJR-R-6.35×9.52M

Reducing Bulkhead Union Body



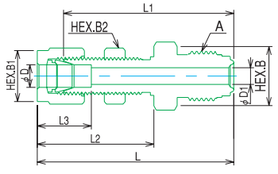
φNom.	φD Nom.	φD1	A	Panel Hole Dia	L	L1	L2	B	B1	Part Number
6.35	6.35	4.4	9/16-18UNF	14.3	57.8	32	19.05	19	19	UJR-RP-6.35×6.35M-AW
9.52	9.52	7.4	7/8-14UNF	22.3	64.3	36.5	19.05	26	26	UJR-RP-9.52×9.52M-AW

Finelok® Connector



φNom.	φD Nom.	A	φD1	B	B1	L	L1	L2	Part Number
6.35	3.2	9/16-18UNF	2.3	17	10	38.5	32	13	UJR-F-6.35×F3.2
6.35	6.35	9/16-18UNF	4.8	17	14	41.5	34.5	15	UJR-F-6.35×F6.35
9.52	6.35	7/8-14UNF	5	23	14	44	37	15	UJR-F-9.52×F6.35
9.52	9.52	7/8-14UNF	7.2	23	17	46	38	17.5	UJR-F-9.52×F9.52
9.52	12.7	7/8-14UNF	10.4	23	22	50	39	24	UJR-F-9.52×F12.7

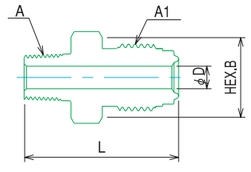
Finelok® Bulkhead Connector



φNom.	φD Nom.	A	Panel Hole Dia	φD1	B	B1	B2	L	L1	L2	L3	Part Number
6.35	6.35	9/16-18UNF	11.2	4.8	17	14	14	57	50	33	15	UJR-FP-F6.35×6.35
9.52	9.52	7/8-14UNF	14.3	7.5	23	17	19	64	56	37	17.5	UJR-FP-F9.52×9.52
9.52	12.7	7/8-14UNF	19.1	10.4	23	22	23	69	58	40.5	24	UJR-FP-F12.7×9.52

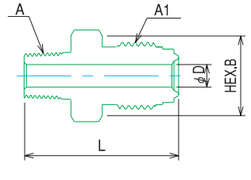
(Unit : mm)

Male Connector (R Thread)



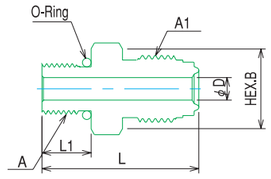
φNom.	A	A1	φD	B	L	Part Number
3.2	R1/8	5/16-24UNF	2.3	12	26	UJR-H-3.2A
6.35	R1/8	9/16-18UNF	4.8	17	33	UJR-H-6.35A
6.35	R1/4	9/16-18UNF	4.8	17	36	UJR-H-6.35B
6.35	R3/8	9/16-18UNF	4.8	17	38	UJR-H-6.35C
9.52	R1/4	7/8-14UNF	7.2	23	40	UJR-H-9.52B
9.52	R3/8	7/8-14UNF	9.7	23	41	UJR-H-9.52C
9.52	R1/2	7/8-14UNF	10.4	23	45	UJR-H-9.52D

Male Connector (NPT Thread)



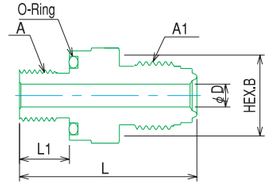
φNom.	A	A1	φD	B	L	Part Number
3.2	1/8NPT	5/16-24UNF	2.3	12	26	UJR-H-3.2AN
6.35	1/8NPT	9/16-18UNF	4.8	17	33	UJR-H-6.35AN
6.35	1/4NPT	9/16-18UNF	4.8	17	36	UJR-H-6.35BN
9.52	1/4NPT	7/8-14UNF	7.2	23	40	UJR-H-9.52BN
9.52	3/8NPT	7/8-14UNF	9.7	23	41	UJR-H-9.52CN
9.52	1/2NPT	7/8-14UNF	10.4	23	45	UJR-H-9.52DN

O-Ring Type Male Connector (UNF Thread)



φNom.	A	A1	φD	B	L	L1	O-Ring (ARP)	Part Number
6.35	7/16-20UNF	9/16-18UNF	4.8	17	33	9.2	904	UJR-H-6.35×7/16-20-OS
6.35	9/16-18UNF	9/16-18UNF	4.8	21	33.5	10	906	UJR-H-6.35×9/16-18-OS
9.52	9/16-18UNF	7/8-14UNF	7.2	23	37.5	10	906	UJR-H-9.52×9/16-18-OS
9.52	3/4-16UNF	7/8-14UNF	7.2	23	40.2	11.2	908	UJR-H-9.52×3/4-16-OS
9.52	7/8-14UNF	7/8-14UNF	7.2	26	42	13	910	UJR-H-9.52×7/8-14-OS

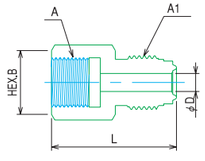
O-Ring Type Male Connector (UNF Thread)



φNom.	A	A1	φD	B	L	L1	O-Ring (JIS)	Part Number
6.35	PF1/4	9/16-18UNF	4.8	23	36.3	10	P15	UJR-H-6.35BF-OR
6.35	7/16-20UNF	9/16-18UNF	4.8	19	37.3	10.5	P12.5	UJR-H-6.35×7/16-20-OR
9.52	9/16-18UNF	7/8-14UNF	7.5	26	41.3	12	P18	UJR-H-9.52×9/16-18-OR

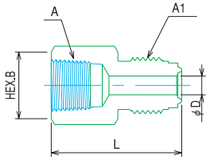
Female Connector (G Thread)

(Unit : mm)



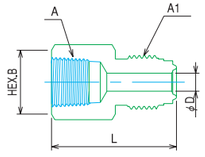
φNom.	A	A1	φD	B	L	Part Number
3.2	G1/8	5/16-24UNF	5.5	14	30	UJR-G-3.2AF
6.35	G1/4	9/16-18UNF	5.5	19	36	UJR-G-6.35BF
6.35	G3/8	9/16-18UNF	5.5	21	39	UJR-G-6.35CF
9.52	G3/8	7/8-14UNF	5.5	23	41	UJR-G-9.52CF
9.52	G1/2	7/8-14UNF	5.5	26	48	UJR-G-9.52DF

Female Connector (Rc Thread)



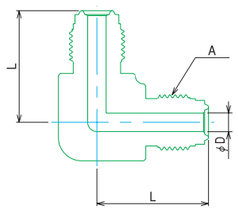
φNom.	A	A1	φD	B	L	Part Number
3.2	Rc1/8	5/16-24UNF	2.3	14	30	UJR-G-3.2A
6.35	Rc1/8	9/16-18UNF	4.8	19	36	UJR-G-6.35A
6.35	Rc1/4	9/16-18UNF	4.8	19	36	UJR-G-6.35B
9.52	Rc3/8	7/8-14UNF	10.4	23	41	UJR-G-9.52C
9.52	Rc1/2	7/8-14UNF	10.4	26	48	UJR-G-9.52D

Female Connector (NPT Thread)



φNom.	A	A1	φD	B	L	Part Number
3.2	1/8NPT	5/16-24UNF	2.3	14	30	UJR-G-3.2AN
6.35	1/4NPT	9/16-18UNF	4.8	19	36	UJR-G-6.35BN
9.52	3/8NPT	7/8-14UNF	10.4	23	41	UJR-G-9.52CN
9.52	1/2NPT	7/8-14UNF	10.4	26	48	UJR-G-9.52DN

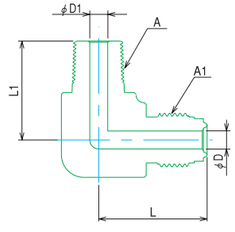
Elbow Union Body



φNom.	A	φD	L	Part Number
3.2	5/16-24UNF	2.3	19.5	UJR-L-3.2
6.35	9/16-18UNF	4.8	29	UJR-L-6.35
9.52	7/8-14UNF	10.4	33.5	UJR-L-9.52

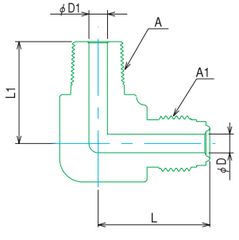
Male Elbow Body (R Thread)

(Unit : mm)



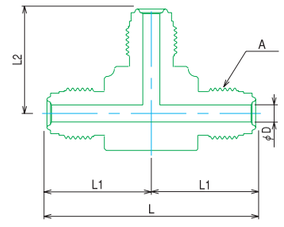
φNom.	A	A1	φD	φD1	L	L1	Part Number
6.35	R1/8	9/16-18UNF	4.8	4.8	29	23	UJR-L-6.35A
6.35	R1/4	9/16-18UNF	4.8	4.8	29	26	UJR-L-6.35B
9.52	R1/4	7/8-14UNF	9.7	7.5	33.5	29	UJR-L-9.52B
9.52	R3/8	7/8-14UNF	9.7	9.7	33.5	30	UJR-L-9.52C
9.52	R1/2	7/8-14UNF	10.4	10.4	33.5	33	UJR-L-9.52D

Male Elbow Body (NPT Thread)



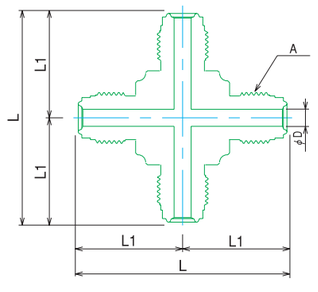
φNom.	A	A1	φD	φD1	L	L1	Part Number
6.35	1/8NPT	9/16-18UNF	4.8	4.8	29	23	UJR-L-6.35AN
6.35	1/4NPT	9/16-18UNF	4.8	4.8	29	26	UJR-L-6.35BN
9.52	1/4NPT	7/8-14UNF	9.7	7.5	33.5	29	UJR-L-9.52BN
9.52	3/8NPT	7/8-14UNF	9.7	9.7	33.5	30	UJR-L-9.52CN
9.52	1/2NPT	7/8-14UNF	10.4	10.4	33.5	33	UJR-L-9.52DN

Tee Union Body



φNom.	A	φD	L	L1	L2	Part Number
3.2	5/16-24UNF	2.3	39	19.5	19.5	UJR-T-3.2
6.35	9/16-18UNF	4.8	58	29	29	UJR-T-6.35
9.52	7/8-14UNF	10.4	67	33.5	33.5	UJR-T-9.52

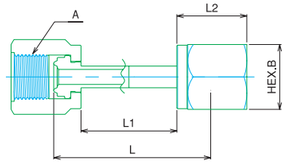
Cross Union Body



φNom.	A	φD	L	L1	Part Number
3.2	5/16-24UNF	2.3	39	19.5	UJR-X-3.2
6.35	9/16-18UNF	4.8	58	29	UJR-X-6.35
9.52	7/8-14UNF	10.4	67	33.5	UJR-X-9.52

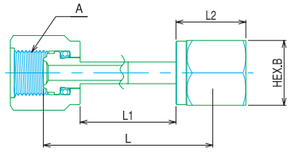
(Unit : mm)

16.2 MPa (2,350 psi) Double Sleeve



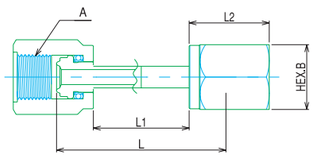
φNom.	A	B	L	L1	L2	Part Number
6.35	9/16-18UNF	19	43.7	28.1	20.5	UJR-6.35S-W
9.52	7/8-14UNF	26	47.6	30.6	22.4	UJR-9.52S-W

1 MPa (145 psi) Double Sleeve



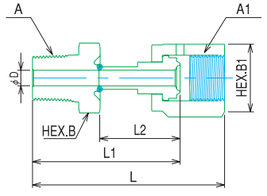
φNom.	A	B	L	L1	L2	Part Number
6.35	9/16-18UNF	19	49.7	28.1	20.5	UJR-6.35S-W-BR
9.52	7/8-14UNF	26	55	30.6	22.4	UJR-9.52S-W-BR

16.2 (2,350 psi) MPa Double Sleeve



φNom.	A	B	L	L1	L2	Part Number
6.35	9/16-18UNF	19	49.7	28.1	23.3	UJR-6.35S-W-L-BR
9.52	7/8-14UNF	26	55	30.6	26	UJR-9.52S-W-L-BR

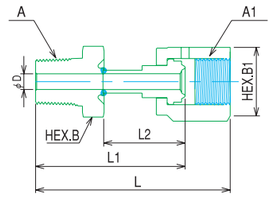
Union Male Connector (R Thread)



φNom.	A	A1	φD	B	B1	L	L1	L2	Part Number
6.35	R1/8	9/16-18UNF	4.35	17	19	51.7	38.5	22.5	UJR-HU-6.35A-IAE
6.35	R1/4	9/16-18UNF	4.35	17	19	54.7	41.5	22.5	UJR-HU-6.35B-IAE
9.52	R3/8	7/8-14UNF	7.3	19	26	61.7	46.5	25.5	UJR-HU-9.52C-IAE
9.52	R1/2	7/8-14UNF	7.3	23	26	65.7	50.5	25.5	UJR-HU-9.52D-IAE

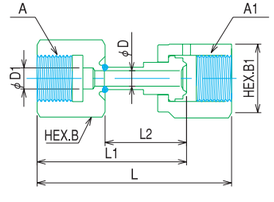
(Unit : mm)

Union Male Connector (NPT Thread)



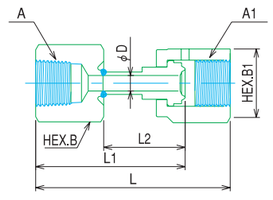
φNom.	A	A1	φD	B	B1	L	L1	L2	Part Number
6.35	1/8NPT	9/16-18UNF	4.35	17	19	51.7	38.5	22.5	UJR-HU-6.35AN-IAE
6.35	1/4NPT	9/16-18UNF	4.35	17	19	54.7	41.5	22.5	UJR-HU-6.35BN-IAE
9.52	3/8NPT	7/8-14UNF	7.3	19	26	61.7	46.5	25.5	UJR-HU-9.52CN-IAE
9.52	1/2NPT	7/8-14UNF	7.3	23	26	65.7	50.5	25.5	UJR-HU-9.52DN-IAE

Union Female Connector (G Thread)



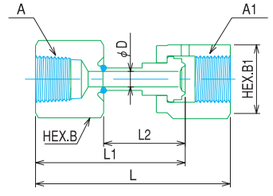
φNom.	A	A1	φD	φD1	B	B1	L	L1	L2	Part Number
6.35	G1/8	9/16-18UNF	4.35	5.5	17	19	51.7	38.5	22.5	UJR-GU-6.35AF-IAE
6.35	G1/4	9/16-18UNF	4.35	5.5	19	19	54.7	41.5	22.5	UJR-GU-6.35BF-IAE
9.52	G3/8	7/8-14UNF	7.3	5.5	23	26	61.7	46.5	25.5	UJR-GU-9.52CF-IAE
9.52	G1/2	7/8-14UNF	7.3	5.5	26	26	65.7	50.5	25.5	UJR-GU-9.52DF-IAE

Union Female Connector (Rc Thread)



φNom.	A	A1	φD	B	B1	L	L1	L2	Part Number
6.35	Rc1/8	9/16-18UNF	4.35	17	19	51.7	38.5	22.5	UJR-GU-6.35A-IAE
6.35	Rc1/4	9/16-18UNF	4.35	19	19	54.7	41.5	22.5	UJR-GU-6.35B-IAE
9.52	Rc3/8	7/8-14UNF	7.3	23	26	61.7	46.5	25.5	UJR-GU-9.52C-IAE
9.52	Rc1/2	7/8-14UNF	7.3	26	26	65.7	50.5	25.5	UJR-GU-9.52D-IAE

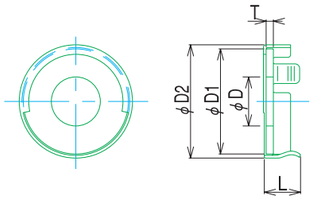
Union Female Connector (NPT Thread)



φNom.	A	A1	φD	B	B1	L	L1	L2	Part Number
6.35	1/8NPT	9/16-18UNF	4.35	17	19	51.7	38.5	22.5	UJR-GU-6.35AN-IAE
6.35	1/4NPT	9/16-18UNF	4.35	19	19	54.7	41.5	22.5	UJR-GU-6.35BN-IAE
9.52	3/8NPT	7/8-14UNF	7.3	23	26	61.7	46.5	25.5	UJR-GU-9.52CN-IAE
9.52	1/2NPT	7/8-14UNF	7.3	26	26	65.7	50.5	25.5	UJR-GU-9.52DN-IAE

Gasket with Retainer

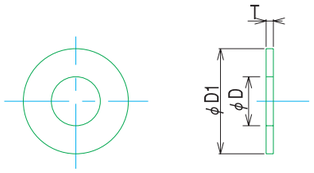
(Unit : mm)



φNom.	φD	φD1	φD2	L	T	Material	Part Number
6.35	5.5	11.8	12.6	4	0.8	SUS316L (Double-Melt)	UJR-6.35RE-RG-O
9.52	11	19.2	20	4.6	0.8	SUS316L (Double-Melt)	UJR-9.52RE-RG-O
6.35	5.5	11.8	12.6	4	0.8	Nickel	UJR-6.35RE-RG-NI-O
9.52	11	19.2	20	4.6	0.8	Nickel	UJR-9.52RE-RG-NI-O

The "O" designation at the end of the part number is eliminated if silver plating is required.

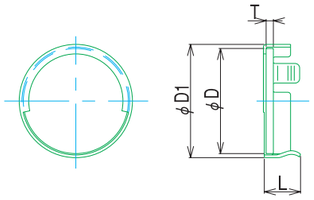
Gasket



φNom.	φD	φD1	T	Material	Part Number
6.35	5.5	12.4	0.8	SUS316L (Double-Melt)	UJR-6.35G-O
9.52	11	19.8	0.8	SUS316L (Double-Melt)	UJR-9.52G-O
3.2	2.3	6.4	0.5	Nickel	UJR-3.2G-NI-O
6.35	5.5	12.4	0.8	Nickel	UJR-6.35G-NI-O
9.52	11	19.8	0.8	Nickel	UJR-9.52G-NI-O
19.05	17	28.5	0.8	Nickel	UJR-19.05G-NI-O

The "O" designation at the end of the part number is eliminated if silver plating is required.

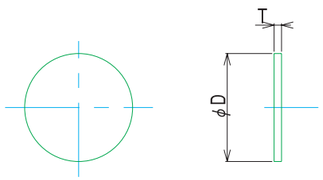
Blind Gasket with Retainer



φNom.	φD	φD1	L	T	Material	Part Number
6.35	11.8	12.6	4	0.8	SUS316L (Double-Melt)	UJR-6.35RE-RG-O-BL
9.52	19.2	20	4.6	0.8	SUS316L (Double-Melt)	UJR-9.52RE-RG-O-BL
6.35	11.8	12.6	4	0.8	Nickel	UJR-6.35RE-RG-NI-O-BL
9.52	19.2	20	4.6	0.8	Nickel	UJR-9.52RE-RG-NI-O-BL

The "O" designation at the end of the part number is eliminated if silver plating is required.

Blind Gasket

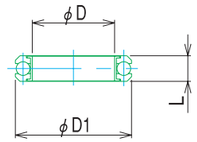


φNom.	φD	T	Material	Part Number
6.35	12.4	0.8	SUS316L (Double-Melt)	UJR-6.35G-O-BL
9.52	19.8	0.8	SUS316L (Double-Melt)	UJR-9.52G-O-BL
3.2	6.4	0.5	Nickel	UJR-3.2G-NI-O-BL
6.35	12.4	0.8	Nickel	UJR-6.35G-NI-O-BL
9.52	19.8	0.8	Nickel	UJR-9.52G-NI-O-BL

The "O" designation at the end of the part number is eliminated if silver plating is required.

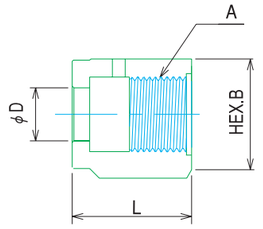
Purering®

(Unit : mm)



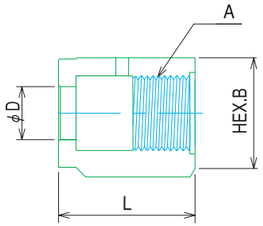
φNom.	φD	φD1	L	Part Number
6.35	9.1	12.6	2.8	UJR-6.35B
9.52	15.3	20.3	3.5	UJR-9.52B

Union Nut



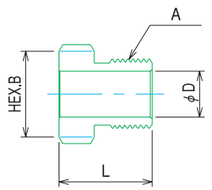
φNom.	A	φD	B	L	Part Number
3.2	5/16-24UNF	5.2	10	13.5	UJR-3.2N
6.35	9/16-18UNF	9.1	19	20.5	UJR-6.35N
9.52	7/8-14UNF	15.3	26	22.4	UJR-9.52N
19.05	1 1/4-14UNEF	22.3	38	29	UJR-19.05N

Long Union Nut



φNom.	A	φD	B	L	Part Number
6.35	9/16-18UNF	9.1	19	23.3	UJR-6.35N-L
9.52	7/8-14UNF	15.3	26	26	UJR-9.52N-L

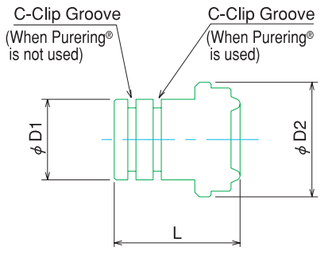
Coupling Body



φNom.	A	φD	B	L	Part Number
3.2	5/16-24UNF	5.2	10	12.7	UJR-C-3.2
6.35	9/16-18UNF	9.1	17	18.2	UJR-C-6.35
9.52	7/8-14UNF	15.3	23	20.5	UJR-C-9.52
19.05	1 1/4-18UNEF	22.5	36	25.5	UJR-C-19.05

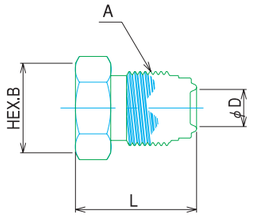
(Unit : mm)

Blind Sleeve



φNom.	φD1	φD2	L	C-Clip	Part Number
6.35	8.9	12.65	13.9	φ7	UJR-6.35S-BL
9.52	15.1	20.3	16.2	φ12	UJR-9.52S-BL

Cap Union Body

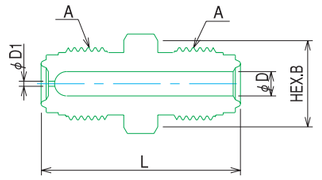


φD Nom.	A	B	L	Part Number
3.2	5/16-24UNF	10	17	UJR-JC-3.2
6.35	9/16-18UNF	17	23	UJR-JC-6.35
9.52	7/8-14UNF	23	27	UJR-JC-9.52

OPTIONS

(Unit : mm)

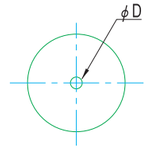
Orifice-Type Straight Union Body



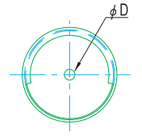
φNom.	φD	φD1	A	L	B	Part Number
6.35	4.8	*	9/16-18UNF	39	17	UJR-F-6.35-*

* Orifice Sizes: 0.1, 0.2, 0.3, 0.4 and 0.5 available.

Orifice-Type Gasket



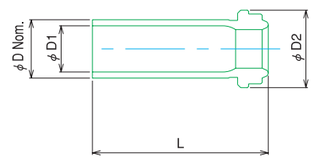
φNom.	φD	Material	Part Number
6.35	*	SUS316L (double-melt)	UJR-6.35G-O-*
		Nickel	UJR-6.35G-NI-O-*
9.52	*	SUS316L (double-melt)	UJR-9.52G-O-*
		Nickel	UJR-9.52G-NI-O-*



φNom.	φD	Material	Part Number
6.35	*	SUS316L (double-melt)	UJR-6.35RE-RG-O-*
		Nickel	UJR-6.35RE-RG-NI-O-*
9.52	*	SUS316L (double-melt)	UJR-9.52RE-RG-O-*
		Nickel	UJR-9.52RE-RG-NI-O-*

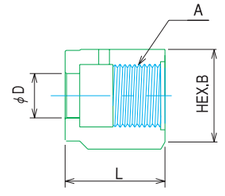
* Orifice Sizes: 0.1, 0.2, 0.3, 0.4 and 0.5 available.

High-Flow Reducing Sleeve



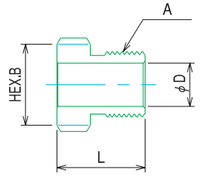
φNom.	φD Nom.	φD1	φD2	L	Part Number
6.35	9.52	7.4	12.65	28.5	UJR-6.35×9.52MS-L28.5-APM

High-Flow Nut



φNom.	A	φD	B	L	Part Number
6.35	9/16-18UNF	9.7	19	20.5	UJR-6.35×9.52N

High-Flow Coupling Body

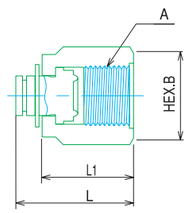


φNom.	A	φD	B	L	Part Number
6.35	9/16-18UNF	9.7	17	18.2	UJR-C-6.35×9.52

OPTIONS

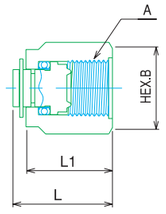
(Unit : mm)

Plug Union



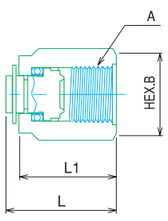
φNom.	A	B	L	L1	C-Clip	Part Number
6.35	9/16-18UNF	19	26.4	20.5	φ7	UJR-JP-6.35
9.52	7/8-14UNF	26	30.3	22.4	φ12	UJR-JP-9.52

1 MPa (145 psi) Plug Union with Purering®



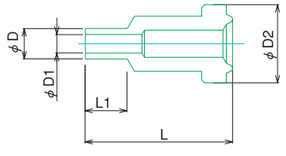
φNom.	A	B	L	L1	C-Clip	Part Number
6.35	9/16-18UNF	19	23.6	20.5	φ7	UJR-JPB-6.35-DMJ
9.52	7/8-14UNF	26	26.7	22.4	φ12	UJR-JPB-9.52-DMJ

16.2 MPa (2,350 psi) Plug Union with Purering®



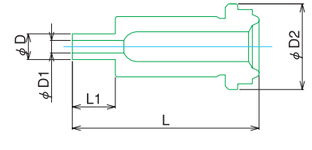
φNom.	A	B	L	L1	C-Clip	Part Number
6.35	9/16-18UNF	19	26.4	23.3	φ7	UJR-JPB-6.35
9.52	7/8-14UNF	26	30.3	26	φ12	UJR-JPB-9.52

1/8 Sleeve



φNom.	φD Nom.	φD1	φD2	L	L1	Part Number
3.2	3.2	1.8	6.4	22.7	6.35	UJR-3.2MS-AW-S-EAJ

Ultra-Compact Auto-Weld Fitting - Special Sleeve



φNom.	φD Nom.	φD1	φD2	L	L1	Part Number
6.35	3.2	1.8	12.65	33.5	6.35	UJR-6.35×3.2MS-AW-S-EAJ

Safety & Clean Technology

Pursuing the Ultimate in Reliability: The Fujikin Auto-Weld Series

The Fujikin auto-weld fitting 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.

By utilizing Fujikin's unique know-how through years of actual performance data with automatic welding machines, reliable and stable weld quality is achieved through precise weld thickness design.

Fujikin Incorporated

FITTING LIST

Ultra-Compact Auto Weld Fitting - Elbow 23

Ultra-Compact Auto Weld Fitting - Reducing Elbow 23

Ultra-Compact Auto Weld Fitting - Tee 23

Ultra-Compact Auto Weld Fitting - Reducing Tee 23

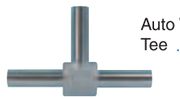
Ultra-Compact Auto Weld Fitting - Cross 24

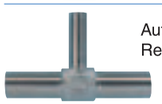
Ultra-Compact Auto Weld Fitting - Tribow 24

Ultra-Compact Auto Weld Fitting - Reducer 24

Auto Weld Fitting - Elbow 24

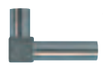
Auto Weld Fitting - Reducing Elbow 25


Auto Weld Fitting - Tee 25


Auto Weld Fitting - Reducing Tee 25

Auto Weld Fitting - Reducing Straight 25

OPTION


Auto Weld Fitting - Special Elbow 26

OPTION

Auto Weld Fitting - Special Tee 26

OPTION

Auto Weld Fitting - Special Tee 26

FEATURES

- Designed with special consideration of dimensional tolerances and precision for use in automatic welding equipment.
- Two series of weld fittings are manufactured so as to fit nearly all automatic welding machines.
- The inner surface undergoes an ultra-precision finishing treatment. UP Treatment (Fujikin proprietary special treatment) is also optionally employed.
- Stainless steel 316L double-melt, ultra-low Mn material is the standard material for auto-weld fittings due to its excellent corrosion resistance after welding.
- Cr_2O_3 and FD (fluorine passivation) treatments may be optionally performed as special inner-surface treatments.
- Welded areas can also be optionally made using FS9 - which is 100% Cr_2O_3 treatable.

PART NUMBER DESIGNATION

Auto-weld part numbers are defined below. Please specify the correct part number when inquiring.

Auto-Weld Fitting Part Number Designation

UJ **T** - **6.35** **M** - **AW** - **S** - **316LM** - **FD**

T	6.35	M	AW	S	316LM	FD
Fitting Type	Nominal Diameter		Auto-Weld	Welded Part Length: S: Short Type, (Blank): Long Type	Material	Inner Surface Treatment

◆Fitting Type

L	Elbow	LT	Tribow
T	Tee	S	Reducer
X	Cross		

◆Nominal Diameter

6.35 indicates 1/4" OD
9.52 indicates 3/8" OD
12.7 indicates 1/2" OD

◆Materials

316LM	SUS316L double-melt, ultra-low Mn material
FS9	Ferrite-type special stainless steel
(Blank)	SUS316L single-melt

◆Inner Surface Treatment

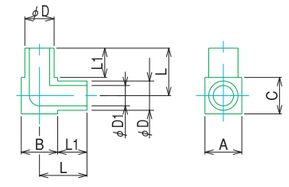
UP	UP Treatment (Fujikin proprietary surface treatment)*
FD	Fluorine Passivation
PS	Cr_2O_3 Treatment

* As UP Treatment is standard for SS316LM materials, it is not shown as an option.

For current and updated information, please visit our website at www.fujikin.co.jp (in the US www.fujikin.com). There you may also download current dimensional drawings.

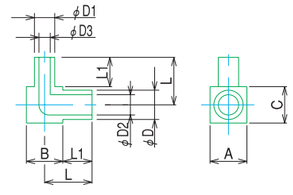
(Unit : mm)

Ultra-Compact Auto-Weld Fitting - Elbow



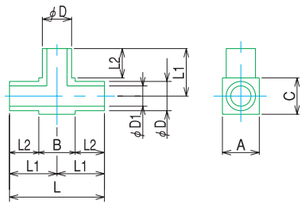
φD Nom.	φD1	L	L1	A	B	C	Part Number
6.35	4.4	10.3	6.35	8	7.9	7.9	UJL-6.35M-AW-S
9.52	7.4	11.9	6.35	11.1	11.1	11.1	UJL-9.52M-AW-S
12.7	10.3	13.5	6.35	14.3	14.3	14.3	UJL-12.7M-AW-S

Ultra-Compact Auto-Weld Fitting - Reducing Elbow



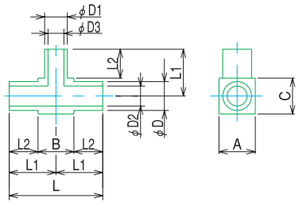
φD Nom.	φD1	φD2	φD3	L	L1	A	B	C	Part Number
9.52	6.35	7.4	4.4	11.9	6.35	11.1	11.1	11.1	UJL-9.52M×6.35M-AW-S
12.7	6.35	10.3	4.4	13.5	6.35	14.3	14.3	14.3	UJL-12.7M×6.35M-AW-S
12.7	9.52	10.3	7.4	13.5	6.35	14.3	14.3	14.3	UJL-12.7M×9.52M-AW-S

Ultra-Compact Auto-Weld Fitting - Tee



φD Nom.	φD1	L	L1	L2	A	B	C	Part Number
6.35	4.4	20.6	10.3	6.35	8	7.9	7.9	UJT-6.35M-AW-S
9.52	7.4	23.8	11.9	6.35	11.1	11.1	11.1	UJT-9.52M-AW-S
12.7	10.3	27	13.5	6.35	14.3	14.3	14.3	UJT-12.7M-AW-S

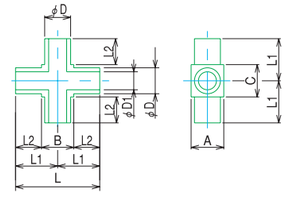
Ultra-Compact Auto-Weld Fitting - Reducing Tee



φD Nom.	φD1	φD2	φD3	L	L1	L2	A	B	C	Part Number
9.52	6.35	7.4	4.4	23.8	11.9	6.35	11.1	11.1	11.1	UJT-9.52M×6.35M-AW-S
12.7	6.35	10.3	4.4	27	13.5	6.35	14.3	14.3	14.3	UJT-12.7M×6.35M-AW-S
12.7	9.52	10.3	7.4	27	13.5	6.35	14.3	14.3	14.3	UJT-12.7M×9.52M-AW-S

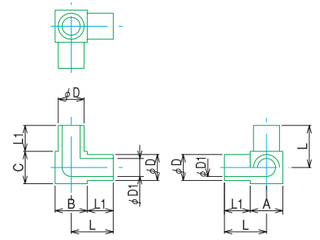
(Unit : mm)

Ultra-Compact Auto-Weld Fitting - Cross



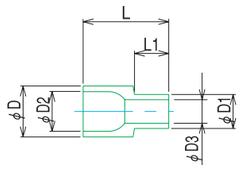
φD Nom.	φD1	L	L1	L2	A	B	C	Part Number
6.35	4.4	20.6	10.3	6.35	8	7.9	7.9	UJX-6.35M-AW-S
9.52	7.4	23.8	11.9	6.35	11.1	11.1	11.1	UJX-9.52M-AW-S
12.7	10.3	27	13.5	6.35	14.3	14.3	14.3	UJX-12.7M-AW-S

Ultra-Compact Auto-Weld Fitting - Tribow



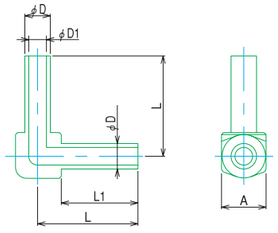
φD Nom.	φD1	L	L1	A	B	C	Part Number
6.35	4.4	10.3	6.35	7.9	7.9	7.9	UJLT-6.35M-AW-S
9.52	7.4	11.9	6.35	11.1	11.1	11.1	UJLT-9.52M-AW-S
12.7	10.3	13.5	6.35	14.3	14.3	14.3	UJLT-12.7M-AW-S

Ultra-Compact Auto-Weld Fitting - Reducer



φD Nom.	φD1	φD2	φD3	L	L1	Part Number
9.52	6.35	7.4	4.4	16	6.35	UJS-9.52M×6.35M-AW-S
12.7	6.35	10.3	4.4	16	6.35	UJS-12.7M×6.35M-AW-S
12.7	9.52	10.3	7.4	16	6.35	UJS-12.7M×9.52M-AW-S

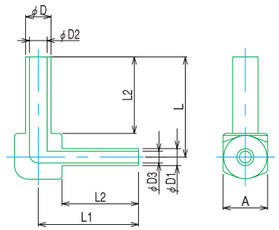
Auto-Weld Fitting - Elbow



φD Nom.	φD1	L	L1	A	Part Number
6.35	4.4	25	19.05	11.1	UJL-6.35M-AW
9.52	7.4	25	19.05	11.1	UJL-9.52M-AW
12.7	10.3	29	19.05	17.2	UJL-12.7M-AW

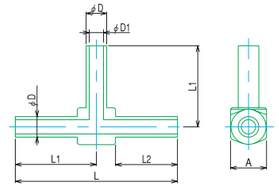
(Unit : mm)

Auto-Weld Fitting - Reducing Elbow



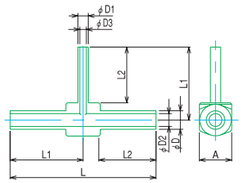
φD Nom.	φD1	φD2	φD3	A	L	L1	L2	Part Number
9.52	6.35	7.4	4.4	11.1	25	25	19.05	UJL-9.52M×6.35M-AW
12.7	6.35	10.3	4.4	17.2	29	29	19.05	UJL-12.7M×6.35M-AW
12.7	9.52	10.3	7.4	17.2	29	29	19.05	UJL-12.7M×9.52M-AW

Auto-Weld Fitting - Tee



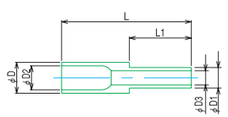
φD Nom.	φD1	L	L1	L2	A	Part Number
6.35	4.4	50	25	19.05	11.1	UJT-6.35M-AW
9.52	7.4	50	25	19.05	11.1	UJT-9.52M-AW
12.7	10.3	58	29	19.05	17.2	UJT-12.7M-AW

Auto-Weld Fitting - Reducing Tee



φD Nom.	φD1	φD2	φD3	A	L	L1	L2	Part Number
9.52	6.35	7.4	4.4	11.1	50	25	19.05	UJT-9.52M×6.35M-AW
12.7	6.35	10.3	4.4	17.2	58	29	19.05	UJT-12.7M×6.35M-AW
12.7	9.52	10.3	7.4	17.2	58	29	19.05	UJT-12.7M×9.52M-AW

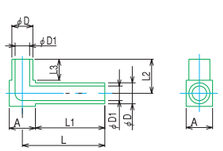
Auto-Weld Fitting - Reducing Straight



φD Nom.	φD1	φD2	φD3	L	L1	Part Number
9.52	6.35	7.4	4.4	40	19.05	UJS-9.52M×6.35M-AW
12.7	6.35	10.3	4.4	40	19.05	UJS-12.7M×6.35M-AW
12.7	9.52	10.3	7.4	40	19.05	UJS-12.7M×9.52M-AW

OPTIONS

Auto-Weld Fitting - Special Elbow

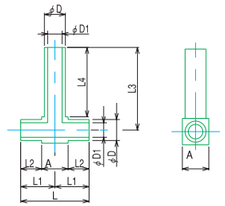


φD Nom.	φD1	L	L1	L2	L3	A	Part Number
6.35	4.4	25	21	10.35	6.35	8	UJL-6.35M-L×S-AW-316LM

OPTIONS

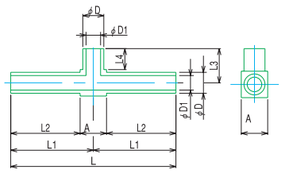
(Unit : mm)

Auto-Weld Fitting - Special Tee



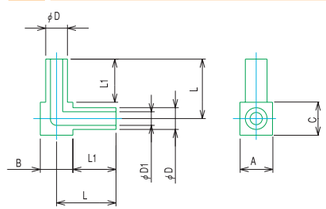
φD Nom.	φD1	L	L1	L2	L3	L4	A	Part Number
6.35	4.4	20.7	10.35	6.35	25	21	8	UJT-6.35M-S×L-AW-316LM

Auto-Weld Fitting - Special Tee



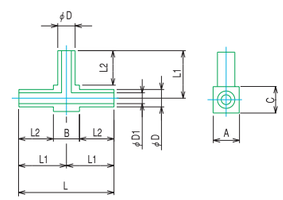
φD Nom.	φD1	L	L1	L2	L3	L4	A	Part Number
6.35	4.4	50	25	21	10.35	6.35	8	UJT-6.35M-L×S-AW-316LM

Auto-Weld Fitting - Elbow (1/8" OD)



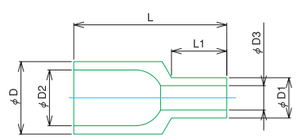
φ Nom.	φD1	L	L1	A	B	C	Part Number
3.2	1.8	8.75	6.35	5	4.8	4.8	UJL-3.2M-AW-S-EAJ

Auto-Weld Fitting - Tee (1/8" OD)



φ Nom.	φD1	L	L1	L2	A	B	C	Part Number
3.2	1.8	17.5	8.75	6.35	5	4.8	4.8	UJT-3.2M-AW-S-EAJ

Ultra-Compact Auto-Weld Fitting - Reducer (1/8" OD)



φD Nom.	φD1	φD2	φD3	L	L1	Part Number
6.35	3.2	4.4	1.8	16	6.35	UJS-6.35M×3.2M-AW-S-EAJ