FIT-ONE

Fit-One, fit all

PFA Fittings & Tubing

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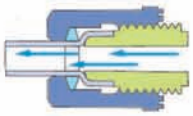
Fluoropolymer Fitting FIT-ONE

The FIT-ONE PFA Fitting and Tubing product line has been designed to exceed conventional pfa fittings and match the performance of the market leaders. Doing all of this while being economical in high/low volumes.

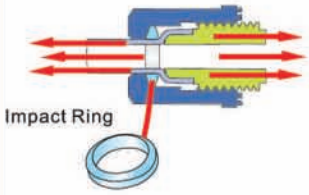
Small fluid pressure loss

The fitting body inner dimension is equal to the inner dimension of the tubing. This allows for minimal pressure losses. Additionally no fluid traps are created.

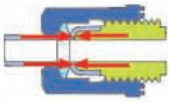


High resistivity against pulling makes a reliable fitting

The FIT-ONE impact-ring design is a perfect solution to the shortcomings of flare type fittings.

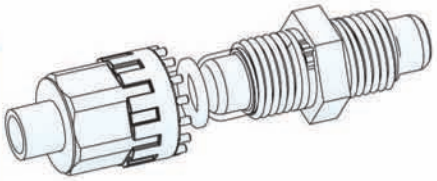


The impact-ring grips the tubing and prevents the tubing from un-flaring.



The nut secures the impact-ring against the tubing and fitting body.

* Patent Pending

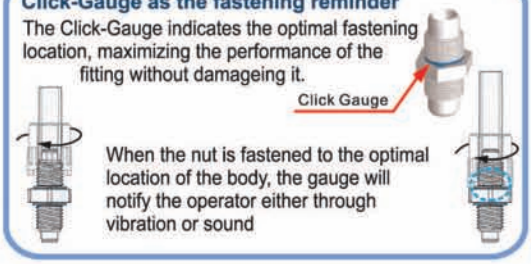


SPECIFICATIONS

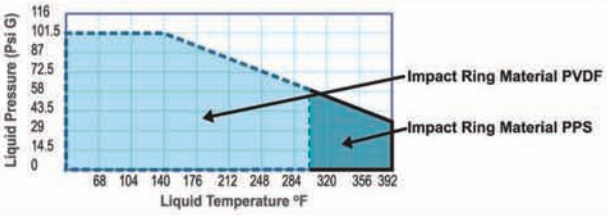
Maximum Operating Temperature: 392°F
(Varies upon the Material of Impact-Ring)
Maximum Operating Pressure:101.5 Psi G
Applicable Fluid: Liquid
Applicable Tube Material: PFA
Material: NUT: PFA
Body: PFA or PTFE

Click-Gauge as the fastening reminder

The Click-Gauge indicates the optimal fastening location, maximizing the performance of the fitting without damageing it.



When the nut is fastened to the optimal location of the body, the gauge will notify the operator either through vibration or sound



Assembly Method

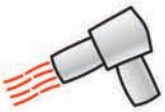
Components and assembly tools

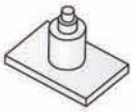
1. IMPACT RING

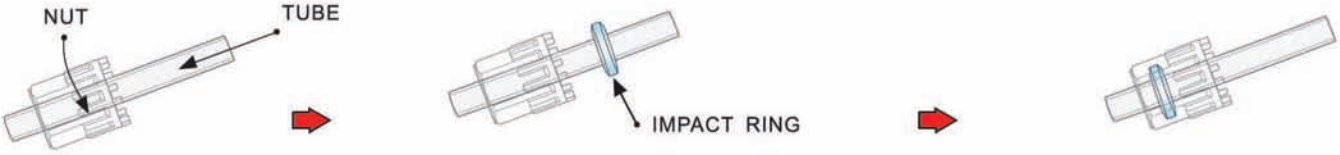
2. NUT

3. BODY

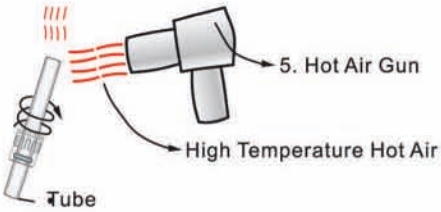
4. TUBE


5. HOT AIR GUN

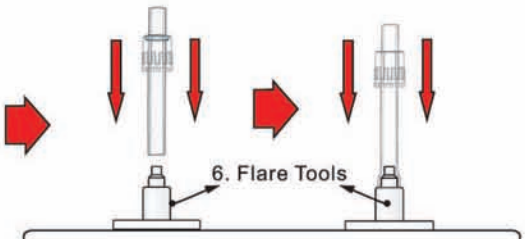

6. FLARE TOOLS



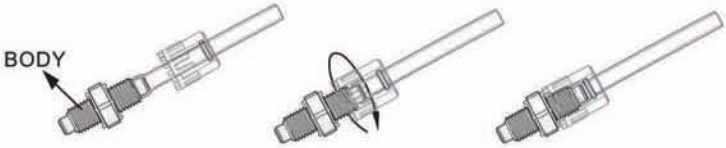
First insert a tube into the nut, then insert the Impact Ring..



!!! Require uniform heating!!!



Insert the tube into flare tool ASAP, and wait until tube is cooled down.



Attach flared tubing to fitting body then tighten nut until click sound is heard or vibration is felt.

(Warning: Do not over tighten.)

Product Coding Rules

- The type code indicates the shape and function of the fitting.

- The size code indicates the size of connection and type.

TYPE CODE

CODE	TYPE	PAGE	CODE	TYPE	PAGE
MC	MALE CONNECTOR	P4	RU	REDUCING UNION	P8
ME	MALE ELBOW	P5	RUE	REDUCING UNION ELBOW	P8
MBT	MALE BRANCH TEE	P6	RUT	REDUCING UNION TEE	P9
FC	FEMALE CONNECTOR	P6	PMU	PANEL MOUNT UNION	P9
FE	FEMALE ELBOW	P7	UEA	UNION ELBOW ADAPTOR	P12
U	UNION	P11	UA	UNION ADAPTOR	P10,14
UE	UNION ELBOW	P11	UF	UNION FLANGE	P10
UT	UNION TEE	P7	CP	CAP	P18
EA	ELBOW ADAPTOR	P13	E	FITTING END	P18
MCT	MALE CONNECTOR THROUGH	P20	UN	UNION NUT	P18
RA	REDUCING ADAPTOR	P17	HN	HALF NUT	P18
TA	TEE ADAPTOR	P13	RI	RING	P18
RUA	REDUCING UNION ADAPTOR	P16	RUTA	REDUCING UNION TEE ADAPTOR	P15

Metric tube size

Series	Spec.	Code
MM Size	3	M3
	4	M4
	6	M6
	8	M8
	10	M10
	12	M12
	19	M19
	25	M25

Taper thread size

SIZE	Applicable Code	
	NPT	PT
1/8"	N1	R1
1/4"	N2	R2
3/8"	N3	R3
1/2"	N4	R4
3/4"	N6	R6
1"	N8	R8
11/4"	N10	R10
11/2"	N12	R12

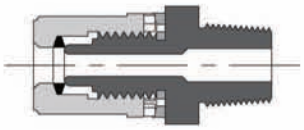
Inch tube size

Series	Spec.	Code
Inch Size	1/8"	H1
	1/4"	H2
	3/8"	H3
	1/2"	H4
	3/4"	H6
	1"	H8
	11/4"	H 10
	11/2"	H 12

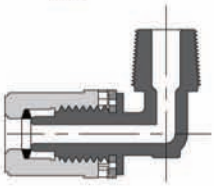
Example: Select RUT type with inch tubing size of 3/4", 1/2", 3/4" the part number would be RUT-H6-H4-H6

Fitting List

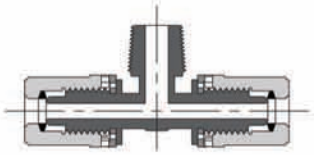
MC



ME



MBT



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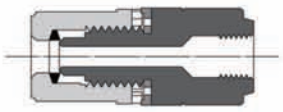

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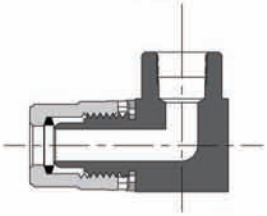

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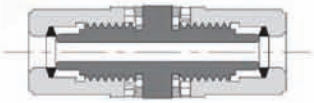

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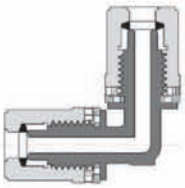

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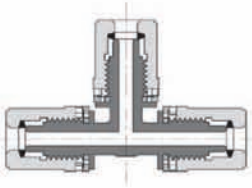

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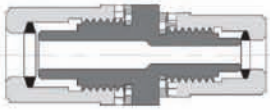
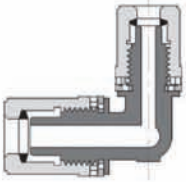


RUE



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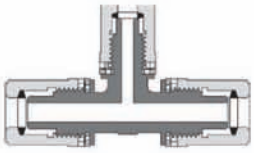

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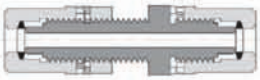

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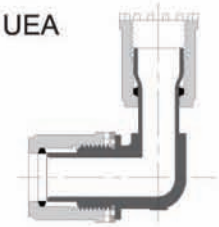

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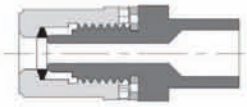

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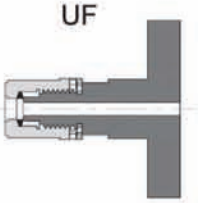

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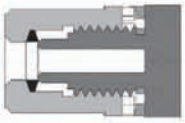

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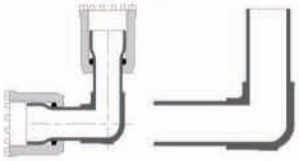

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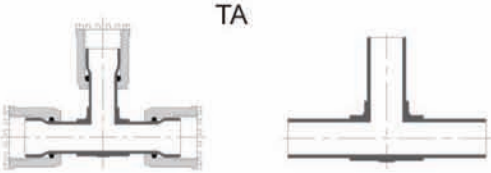

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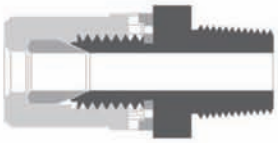

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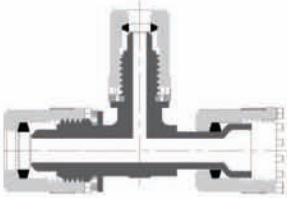

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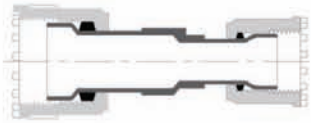

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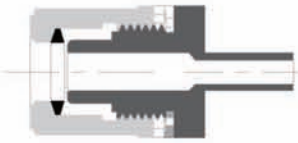

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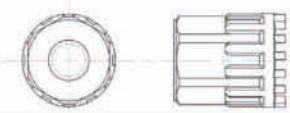

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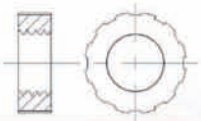
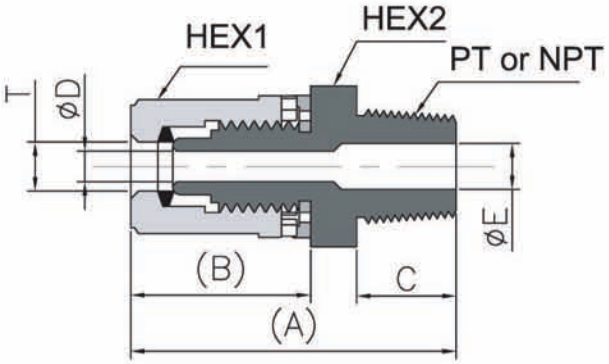


RI

MC Male Connector



IINCH+NPT TYPE

	T	NPT	HEX1	HEX2	(A)	(B)	C	ØD	ØE
MC-H1-N1	3.18X2.18	1/8"	11	13	33.3	18.3	9	2	3
MC-H1-N2	"	1/4"	"	"	37.3	18.3	13	"	6
MC-H2-N1	6.35X3,95	1/8"	16	20	38.5	23.5	9	4	3
MC-H2-N2	"	1/4"	"	"	42.5	"	13	"	6
MC-H2-N3	"	3/8"	"	"	"	"	"	"	10
MC-H3-N2	9.53X6.35	1/4"	19	23	46.7	27.7	"	6.3	6.3
MC-H3-N3	"	3/8"	"	"	"	"	"	"	10
MC-H3-N4	"	1/2"	"	"	50.5	"	16.8	"	12
MC-H4-N2	12.7X9.53	1/4"	24	29	52.3	33	13	10	6
MC-H4-N3	"	3/8"	"	"	"	"	"	"	10
MC-H4-N4	"	1/2"	"	"	57.1	"	16.8	"	12
MC-H4-N6	"	3/4"	"	"	57.4	"	17.1	"	16
MC-H6-N4	19.05X15.8	1/2"	32	38	65.1	41	16.8	16	12
MC-H6-N6	"	3/4"	"	"	65.4	"	17.1	"	16
MC-H6-N8	"	1"	"	"	69.7	"	21.4	"	22
MC-H8-N6	25.4X22.2	3/4"	41	49	72.4	48	17.1	22	16
MC-H8-N8	"	1"	"	"	76.7	"	21.4	"	22
MC-H10-N10	31.8x28	1 1/4"	50	60	102.3	65.3	25	28	28
MC-H12-N12	38.1x33.7	1 1/2"	60	70	111.6	71.6	28	33.7	33.7

MM+PT TYPE

	T	PT	HEX1	HEX2	(A)	(B)	C	ØD	ØE
MC-M3-R1	3X2	1/8"	11	13	33.3	18.3	9	2	3
MC-M3-R2	"	1/4"	"	"	37.3	"	13	2	6
MC-M4-R1	4X3	1/8"	11	13	33.3	18.3	"	3	"
MC-M4-R2	"	1/4"	"	"	37.3	"	13	3	6
MC-M6-R1	6X4	1/8"	16	20	38.5	23.5	9	4	3
MC-M6-R2	"	1/4"	"	"	42.5	"	13	"	6
MC-M6-R3	"	3/8"	"	"	"	"	"	"	10
MC-M8-R1	8X6	1/8"	19	23	38.5	27.7	9	6.3	3
MC-M8-R2	"	1/4"	"	"	46.7	"	13	"	6.3
MC-M8-R3	"	3/8"	"	"	"	"	"	"	10
MC-M8-R4	"	1/2"	"	"	50.5	"	16.8	"	12
MC-M10-R2	10X8	1/4"	"	"	46.7	"	13	8	6
MC-M10-R3	"	3/8"	"	"	"	"	"	"	10
MC-M10-R4	"	1/2"	"	"	50.5	"	16.8	"	12
MC-M12-R2	12X10	1/4"	24	29	52.3	33	13	10	6
MC-M12-R3	"	3/8"	"	"	"	"	"	"	10
MC-M12-R4	"	1/2"	"	"	57.1	"	16.8	"	12
MC-M12-R6	"	3/4"	"	"	57.4	"	17.1	"	16
MC-M19-R4	19X15.8	1/2"	32	38	65.1	41	16.8	16	12
MC-M19-R6	"	3/4"	"	"	65.4	"	17.1	"	16
MC-M19-R8	"	1"	"	"	69.7	"	21.4	"	22
MC-M25-R6	25X22	3/4"	41	49	72.4	48	17.1	22	16
MC-M25-R8	"	1"	"	"	76.7	"	21.4	"	22

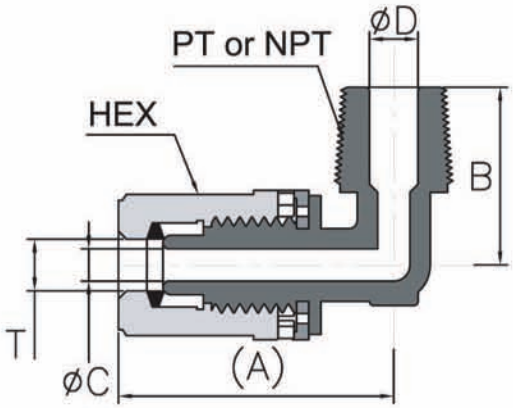
INCH+PT TYPE

	T	PT	HEX1	HEX2	(A)	(B)	C	ØD	ØE
MC-H1-R1	3.18X2.18	1/8"	11	13	33.3	18.3	9	2	3
MC-H1-R2	"	1/4"	"	"	37.3	"	13	2	6
MC-H2-R1	6.35X3.95	1/8"	16	20	38.5	23.5	9	4	3
MC-H2-R2	"	1/4"	"	"	42.5	"	13	"	6
MC-H2-R3	"	3/8"	"	"	"	"	"	"	10
MC-H3-R2	9.53X6.35	1/4"	19	23	46.7	27.7	"	6.3	6.3
MC-H3-R3	"	3/8"	"	"	"	"	"	"	10
MC-H3-R4	"	1/2"	"	"	50.5	"	16.8	"	12
MC-H4-R2	12.7X9.53	1/4"	24	29	52.3	33	13	10	6
MC-H4-R3	"	3/8"	"	"	"	"	"	"	10
MC-H4-R4	"	1/2"	"	"	57.1	"	16.8	"	12
MC-H4-R6	"	3/4"	"	"	57.4	"	17.1	"	16
MC-H6-R4	19.05X15.8	1/2"	32	38	65.1	41	16.8	16	12
MC-H6-R6	"	3/4"	"	"	65.4	"	17.1	"	16
MC-H6-R8	"	1"	"	"	69.7	"	21.4	"	22
MC-H8-R6	25.4X22.2	3/4"	41	49	72.4	48	17.1	22	16
MC-H8-R8	"	1"	"	"	76.7	"	21.4	"	22

UNIT:MM

Listed sizes are for reference only.
"T" indicates the O.D and I.D of applied tube.

ME *Male Elbow*



INCH+NPT TYPE

	T	NPT	HEX	(A)	B	ØC	ØD	W
ME-H1-N1	3.18X2.18	1/8"	11	25.8	17.5	2	3	7.6
ME-H1-N2	"	1/4"	"	"	21.5	"	6	"
ME-H2-N1	6.35X3.95	1/8"	16	34	18	4	3	10
ME-H2-N2	"	1/4"	"	"	22	"	6	"
ME-H2-N3	"	3/8"	"	"	"	"	10	"
ME-H3-N2	9.53X6.35	1/4"	19	40.2	24	6.3	6	14
ME-H3-N3	"	3/8"	"	"	"	"	10	"
ME-H3-N4	"	1/2"	"	"	27.8	"	12	"
ME-H4-N2	12.7X9.53	1/4"	24	48.5	26.5	10	6	18
ME-H4-N3	"	3/8"	"	"	"	"	10	"
ME-H4-N4	"	1/2"	"	"	30.3	"	12	"
ME-H4-N6	"	3/4"	"	"	30.6	"	16	"
ME-H6-N4	19.05X15.8	1/2"	32	61.5	34.8	16	12	27
ME-H6-N6	"	3/4"	"	"	37.1	"	16	"
ME-H8-N6	25.4X22.2	"	41	73.1	42.1	22	"	34
ME-H8-N8	"	1"	"	"	46.4	"	22	"

MM+PT TYPE

	T	PT	HEX	(A)	B	ØC	ØD	W
ME-M3-R1	3X2	1/8"	11	25.8	17.5	2	3	7.6
ME-M3-R2	"	1/4"	"	"	21.5	"	6	"
ME-M4-R1	4X3	1/8"	"	"	17.5	3	3	"
ME-M4-R2	"	1/4"	"	"	21.5	"	6	"
ME-M6-R1	6x4	1/8"	16	34	18	4	3	10
ME-M6-R2	"	1/4"	"	"	22	"	6	"
ME-M6-R3	"	3/8"	"	"	"	"	10	"
ME-M8-R1	8x6	1/8"	19	40.2	20	6.3	3	14
ME-M8-R2	"	1/4"	"	"	24	"	6	"
ME-M8-R3	"	3/8"	"	"	"	"	10	"
ME-M8-R4	"	1/2"	"	"	27.8	"	12	"
ME-M10-R2	10x8	1/4"	"	"	24	8	6	"
ME-M10-R3	"	3/8"	'	"	"	"	10	"
ME-M10-R4	"	1/2"	"	"	27.8	"	12	"
ME-M12-R2	12x10	1/4"	24	48.5	26.5	10	6	18
ME-M12-R3	"	3/8"	"	"	"	"	10	"
ME-M12-R4	"	1/2"	"	"	30.3	"	12	"
ME-M12-R6	"	3/4"	"	"	30.6	"	16	"
ME-M19-R4	19x15.8	1/2"	32	61.5	34.8	16	12	27
ME-M19-R6	"	3/4"	"	"	37.1	"	16	"
ME-M25-R6	25x22	"	41	73.1	42.1	22	"	34
ME-M25-R8	"	1"	"	"	46.4	"	22	"

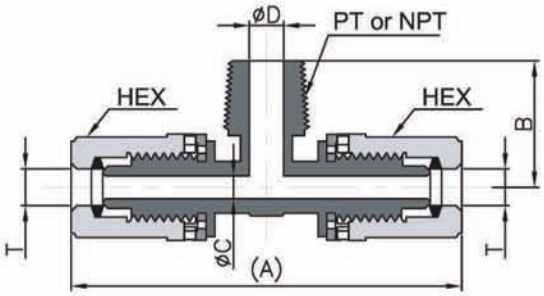
INCH+PT TYPE

	T	PT	HEX	(A)	B	ØC	ØD	W
ME-H1-R1	3.18X2.18	1/8"	11	25.8	17.5	2	3	7.6
ME-H1-R2	"	1/4"	"	"	21.5	"	6	"
ME-H2-R1	6.35X3.95	1/8"	16	34	18	4	3	10
ME-H2-R2	"	1/4"	"	"	22	"	6	"
ME-H2-R3	"	3/8"	"	"	"	"	10	"
ME-H3-R2	9.53X6.35	1/4"	19	40.2	24	6.3	6	14
ME-H3-R3	"	3/8"	"	"	"	"	10	"
ME-H3-R4	"	1/2"	"	"	27.8	"	12	"
ME-H4-R2	12.7X9.53	1/4"	24	48.5	26.5	10	6	18
ME-H4-R3	"	3/8"	"	"	"	"	10	"
ME-H4-R4	"	1/2"	"	"	30.3	"	12	"
ME-H4-R6	"	3/4"	"	"	30.6	"	16	"
ME-H6-R4	19.05X15.8	1/2"	32	61.5	34.8	16	12	27
ME-H6-R6	"	3/4"	"	"	37.1	"	16	"
ME-H8-R6	25.4X22.2	"	41	73.1	42.1	22	"	34
ME-H8-R8	"	1"	"	"	46.4	"	22	"

UNIT:MM

Listed sizes are for reference only.
"T" indicates the O.D and I.D of applied tube.
"W" indicates the dimension of the Fitting body width.

MBT *Male Branch Tee*



INCH TYPE

	T	NPT	HEX	(A)	B	ØC	ØD	W
* MBT-H2-N1	6.35X3.95	1/8"	16	68	18	4	3	10
MBT-H2-N2	"	1/4"	"	"	22	"	6	"
* MBT-H2-N3	"	3/8"	"	"	"	"	10	"
* MBT-H3-N2	9.53X6.35	1/4"	19	80.3	24	6.3	6	14
MBT-H3-N3	"	3/8"	"	"	"	"	10	"
* MBT-H3-N4	"	1/2"	"	"	27.8	"	12	"
* MBT-H4-N2	12.7X9.53	1/4"	24	97	26.5	10	6	18
* MBT-H4-N3	"	3/8"	"	"	26.5	"	10	"
MBT-H4-N4	"	1/2"	"	"	30.3	"	12	"
* MBT-H6-N4	19.05X15.8	1/2"	32	123	34.8	16	"	27
MBT-H6-N6	"	3/4"	"	"	37.1	"	16	"
* MBT-H8-N6	25.4X22.2	3/4"	41	147	42.1	22	"	34
MBT-H8-N8	"	1"	"	"	46.4	"	22	"

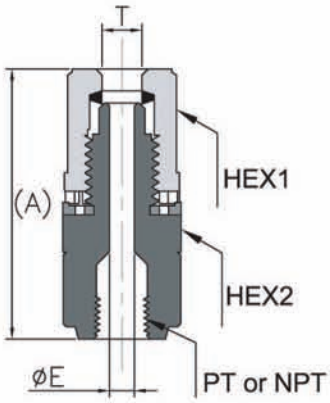
MM TYPE

	T	PT	HEX	(A)	B	ØC	ØD	W
* MBT-M6-R1	6X4	1/8"	16	68	18	4	3	10
MBT-M6-R2	"	1/4"	"	"	22	"	6	"
* MBT-M6-R3	"	3/8"	"	"	"	"	10	"
* MBT-M8-R1	8X6	1/8"	19	80.3	20	6.3	3	14
MBT-M8-R2	"	1/4	"	"	24	"	6	"
* MBT-M8-R3	"	3/8"	"	"	"	"	10	"
* MBT-M10-R2	10X8	1/4"	"	"	"	8	6	"
MBT-M10-R3	"	3/8"	"	"	"	"	10	"
* MBT-M10-R4	"	1/2"	"	"	27.8	"	12	"
* MBT-M12-R2	12X10	1/4"	24	97	26.5	10	6	18
* MBT-M12-R3	"	3/8"	"	"	"	"	10	"
MBT-M12-R4	"	1/2"	"	"	30.3	"	12	"
* MBT-M19-R4	19X15.8	"	32	123	34.8	16	"	27
MBT-M19-R6	"	3/4"	"	"	37.1	"	16	"
* MBT-M25-R6	25X22	"	41	147	42.1	22	"	34
MBT-M25-R8	"	1"	"	"	46.4	"	22	"

UNIT:MM

Listed sizes are for reference only.
"T" indicates the O.D and I.D of applied tube.
"W" indicates the dimension of the Fitting body width.
*Manafacture with order

FC *Female Connector*



INCH TYPE

	T	NPT	HEX1	HEX2	(A)	ØE
FC-H2-N1	6.35X3.95	1/8"	16	20	40.5	4
FC-H2-N2	"	1/4"	"	"	43.5	"
FC-H2-N3	"	3/8"	"	23	44	"
FC-H3-N2	9.53X6.35	1/4"	19	"	47.7	6.3
FC-H3-N3	"	3/8"	"	"	48.2	"
FC-H3-N4	"	1/2"	"	25	52.2	"
FC-H4-N2	12.7X9.53	1/4"	24	29	54.3	10
FC-H4-N3	"	3/8"	"	"	54.8	"
FC-H4-N4	"	1/2"	"	"	58.8	"
FC-H6-N4	19.05X15.8	1/2"	32	38	66.8	16
FC-H6-N6	"	3/4"	"	"	67.3	"
FC-H8-N6	25.4X22.2	3/4"	41	49	74.3	22
FC-H8-N8	"	1"	"	"	78.3	"

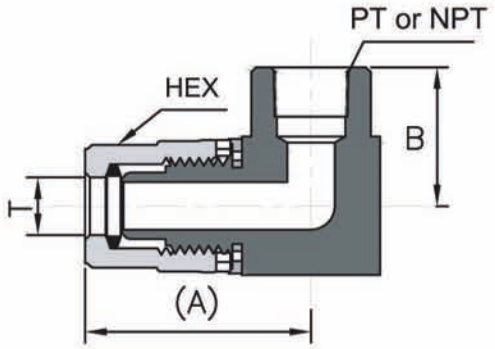
MM TYPE

	T	PT	HEX1	HEX2	(A)	ØE
FC-M6-R1	6X4	1/8"	16	20	40.5	4
FC-M6-R2	"	1/4"	"	"	43.5	"
FC-M6-R3	"	3/8"	"	23	44	"
FC-M8-R1	8X6	1/8"	19	"	44.6	6.3
FC-M8-R2	"	1/4"	"	"	47.7	"
FC-M8-R3	"	3/8"	"	"	48.2	"
FC-M10-R2	10X8	1/4"	"	"	47.7	8
FC-M10-R3	"	3/8"	"	"	48.2	"
FC-M10-R4	"	1/2"	"	29	52.2	"
FC-M12-R2	12X10	1/4"	24	"	54.3	10
FC-M12-R3	"	3/8"	"	"	54.8	"
FC-M12-R4	"	1/2"	"	"	58.8	"
FC-M19-R4	19X15.8	"	32	38	66.8	16
FC-M19-R6	"	3/4"	"	"	67.3	"
FC-M25-R6	25X22	"	41	49	74.3	22
FC-M25-R8	"	1"	"	"	78.3	"

UNIT:MM

Listed sizes are for reference only.
"T" indicates the O.D and I.D of applied tube.

FE *Female Elbow*



INCH TYPE

	T	NPT	HEX	(A)	B	W
FE-H2-N1	6.35X3.95	1/8"	16	33.5	21	20
FE-H2-N2	"	1/4"	"	35	24	23
FE-H2-N3	"	3/8"	"	36.5	24.5	26
FE-H3-N2	9.53X6.35	1/4"	19	39.2	25.5	23
FE-H3-N3	"	3/8"	"	40.7	26	26
FE-H3-N4	"	1/2"	"	43.9	30	32.5
FE-H4-N2	12.7X9.53	1/4"	24	47.5	28.5	29
FE-H4-N3	"	3/8"	"	"	29	"
FE-H4-N4	"	1/2"	"	49.3	33	32.5
FE-H6-N4	19.05X15.8	"	32	60	37.5	38
FE-H6-N6	"	3/4"	"	62	38	42
FE-H8-N6	25.4X22.2	"	41	72.5	43.5	49
FE-H8-N8	"	1"	"	75	47.5	54

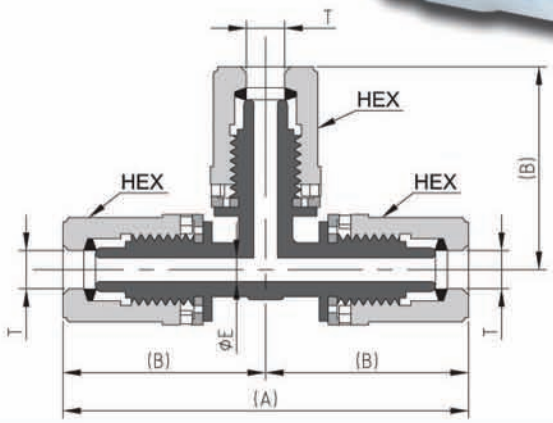
MM TYPE

	T	PT	HEX	(A)	B	W
FE-M6-R1	6X4	1/8"	16	33.5	21	20
FE-M6-R2	"	1/4"	"	35	24	23
FE-M6-R3	"	3/8"	"	36.5	24.5	26
FE-M8-R1	8X6	1/8"	19	37.7	21	20
FE-M8-R2	"	1/4"	"	39.2	25.5	23
FE-M8-R3	"	3/8"	"	40.7	26	26
FE-M10-R2	10X8	1/4"	"	39.2	25.5	23
FE-M10-R3	"	3/8"	"	40.7	26	26
FE-M10-R4	"	1/2"	"	43.4	30	32.5
FE-M12-R2	12X10	1/4"	24	62	43	29
FE-M12-R3	"	3/8"	"	"	43.5	"
FE-M12-R4	"	1/2"	"	65.5	47.5	32.5
FE-M19-R4	19X15.8	1/2"	32	60	37.5	38
FE-M19-R6	"	3/4"	"	62	38	42
FE-M25-R6	25X22	3/4"	41	72.5	43.5	49
FE-M25-R8	"	1"	"	75	47.5	54

UNIT:MM

Listed sizes are for reference only.
"T" indicates the O.D and I.D of applied tube.
"W" indicates the dimension of the Fitting body width.

UT *Union Tee*



INCH TYPE

	T	HEX	ØE	(A)	(B)	W
UT-H1	3.18X2.18	11	2	51.6	25.8	7.6
UT-H2	6.35X3.95	16	4	68	34	10
UT-H3	9.53X6.35	19	6.3	80.3	40.2	14
UT-H4	12.7X9.53	24	10	97	48.5	18
UT-H6	19.05X15.8	32	16	123	61.5	27
UT-H8	25.4X22.2	41	22	147	73.5	34
UT-H10	31.8X28	50	28	194.6	97.3	40
UT-H12	38.1X33.7	60	33.7	217	108.5	48

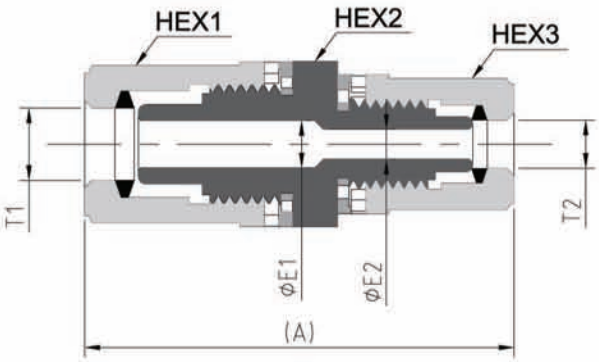
MM TYPE

	T	HEX	ØE	(A)	(B)	W
UT- M3	3X2	11	2	51.6	25.8	7.6
UT- M4	4X3	"	3	"	"	"
UT-M6	6X4	16	4	68	34	10
UT-M8	8X6	19	6.3	80.3	40.2	14
UT-M10	10X8	"	8	"	"	"
UT-M12	12X10	24	10	97	48.5	18
UT-M19	19X15.8	32	16	123	61.5	27
UT-M25	25X22	41	22	147	73.5	34

UNIT:MM

Listed sizes are for reference only.
"T" indicates the O.D and I.D of applied tube.
"W" indicates the dimension of the Fitting body width.

RU *Reducing Union*



INCH TYPE

	T1	T2	HEX1	HEX2	HEX3	(A)	ØE1	ØE2
RU-H2-H1	6.35X3.95	3.18X2.18	16	20	11	47.8	4	2
RU-H3-H2	9.53X6.35	6.35X3.95	19	23	16	57.2	6.3	4
RU-H4-H2	12.7X9.53	"	24	29	"	63.8	10	"
RU-H4-H3	"	9.53X6.35	"	"	19	68	"	6.3
RU-H6-H2	19.05X15.8	6.35X3.95	32	38	16	71.8	16	4
RU-H6-H3	"	9.53X6.35	32	38	19	75.9	16	6.3
RU-H6-H4	"	12.7X9.53	"	"	24	81.3	"	10
RU-H8-H4	25.4X22.2	"	41	49	"	88.3	22	"
RU-H8-H6	"	19.05X15.8	"	"	32	96.3	"	16
RU-H10-H6	31.8X28	"	50	60	32	118.3	28	16
RU-H10-H8	"	25.4X22.2	"	"	41	125.3	"	22
RU-H12-H6	38.1X33.7	19.05X15.8	60	70	32	124.6	33.7	16
RU-H12-H8	"	25.4X22.2	"	"	41	131.6	"	22
RU-H12-H10	"	31.8X28	"	"	50	148.9	"	28

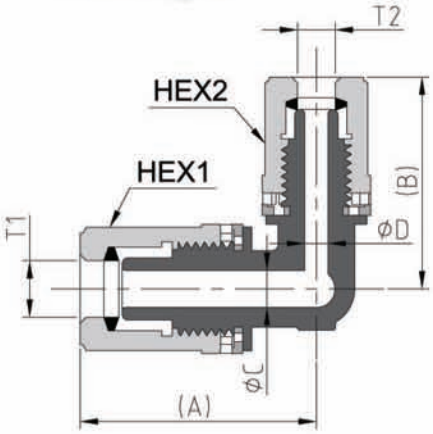
MM TYPE

	T1	T2	HEX1	HEX2	HEX3	(A)	ØE1	ØE2
RU-M6-M3	6x4	3X2	16	20	11	47.8	6.3	2
RU-M6-M4	"	4X3	"	"	"	"	"	3
RU-M8-M6	8x6	6x4	19	23	16	57.2	6.3	4
RU-M10-M6	10x8	"	"	"	"	"	8	"
RU-M10-M8	"	8x6	"	"	19	61.3	"	6.3
RU-M12-M6	12x10	6x4	24	29	16	63.8	10	4
RU-M12-M8	"	8x6	"	"	19	68	"	6.3
RU-M12-M10	"	10x8	"	"	"	"	"	8
RU-M19-M6	19x15.8	6x4	32	38	16	71.8	16	4
RU-M19-M10	"	10x8	32	38	19	75.9	"	8
RU-M19-M12	"	12x10	"	"	24	81.3	"	10
RU-M25-M12	25x22	"	41	49	"	88.3	22	"
RU-M25-M19	"	19x15.8	"	"	32	96.3	"	16

UNIT:MM

Listed sizes are for reference only.
"T1" and "T2" indicates the O.D and I.D of applied tube.

RUE *Reducing Union Elbow*



INCH TYPE

	T1	T2	HEX1	HEX2	(A)	(B)	ØC	ØD	W
RUE-H2-H1	6.35X3.95	3.18X2.18	16	11	34	28.3	4	2	10
RUE-H3-H2	9.53X6.35	6.35X3.95	19	16	40.2	36	6.3	4	14
RUE-H4-H2	12.7X9.53	"	24	"	48.5	38.5	10	"	18
RUE-H4-H3	"	9.53X6.35	"	19	"	42.7	"	6.3	"
RUE-H6-H3	19.05X15.8	"	32	"	61.5	47.2	16	"	27
RUE-H6-H4	"	12.7X9.53	"	24	"	53	"	10	"
RUE-H8-H4	25.4X22.2	"	41	"	73.5	58	22	"	34
RUE-H8-H6	"	19.05X15.8	"	32	"	66.5	"	16	"
RUE-H10-H6	31.8X28	19.05X15.8	50	32	97.3	72.5	28	16	40
RUE-H10-H8	"	25.4X22.2	"	41	"	79.5	"	22	"
RUE-H12-H6	38.1X33.7	19.05X15.8	60	32	108.5	77.3	33.7	16	48
RUE-H12-H8	"	25.4X22.2	"	41	"	84.3	"	22	"
RUE-H12-H10	"	31.8X28	"	50	"	102.2	"	28	"

MM TYPE

	T1	T2	HEX1	HEX2	(A)	(B)	ØC	ØD	W
RUE-M6-M3	6X4	3X2	16	11	34	28.3	4	2	10
RUE-M6-M4	"	4X3	"	"	"	"	4	3	"
RUE-M8-M6	8X6	6X4	19	16	40.2	36	6.3	4	14
RUE-M10-M6	10X8	"	"	"	"	"	8	"	"
RUE-M10-M8	"	8X6	"	19	"	40.2	"	6.3	"
RUE-M12-M6	12X10	6X4	24	16	48.5	38.5	10	4	18
RUE-M12-M8	"	8X6	"	19	"	42.7	"	6.3	"
RUE-M12-M10	"	10X8	"	"	"	"	"	8	"
RUE-M19-M10	19X15.8	"	32	"	61.5	47.2	16	"	27
RUE-M19-M12	"	12X10	"	24	"	53	"	10	"
RUE-M25-M12	25X22	"	41	"	73.5	58	22	"	34
RUE-M25-M19	"	19X15.8	"	32	"	66.5	"	16	"

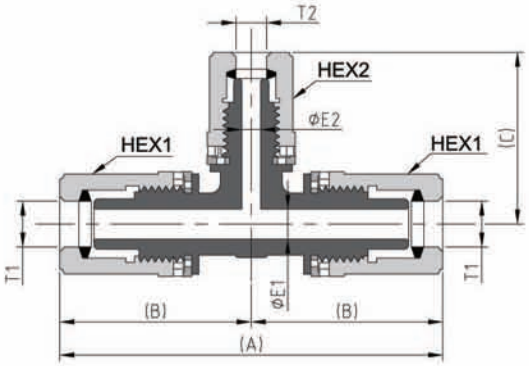
UNIT:MM

Listed sizes are for reference only.
"T1" and "T2" indicates the O.D and I.D of applied tube.
"W" indicates the dimension of the Fitting body width.

RUT *Reducing Union Tee*

INCH TYPE

	T1	T2	HEX1	HEX2	ØE1	ØE2	(A)	(B)	(C)	W
RUT-H3-H2-H3	9.53X6.35	6.35X3.95	19	16	6.3	4	80.3	40.2	36	14
RUT-H4-H2-H4	12.7X9.53	"	24	"	10	"	97	48.5	38.5	18
RUT-H4-H3-H4	"	9.53X6.35	"	19	"	6.3	"	"	42.7	"
RUT-H6-H3-H6	19.05X15.8	"	32	"	16	"	123	61.5	47.2	27
RUT-H6-H4-H6	"	12.7X9.53	"	24	"	10	"	"	53.1	"
RUT-H8-H3-H8	25.4X22.2	9.53X6.35	41	19	22	6.3	147	73.5	52.2	34
RUT-H8-H4-H8	"	12.7X9.53	"	24	"	10	"	"	58	"
RUT-H8-H6-H8	"	19.05X15.8	"	32	"	16	"	"	66.5	34
RUT-H10-H6-H10	31.8X28	19.05X15.8	50	32	28	16	194.6	97.3	72.5	40
RUT-H10-H8-H10	"	25.4X22.2	"	41	"	22	"	"	79.5	"
RUT-H12-H6-H12	38.1X33.7	19.05X15.8	60	32	33.7	16	217	108.5	77.3	48
RUT-H12-H8-H12	"	25.4X22.2	"	41	"	22	"	"	84.3	"
RUT-H12-H10-H12	"	31.8X28	"	50	"	28	"	"	102.2	"



MM TYPE

	T1	T2	HEX1	HEX2	ØE1	ØE2	(A)	(B)	(C)	W
RUT-M8-M6-M8	8X6	6X4	19	16	6.3	4	80.3	40.2	36	14
RUT-M10-M6-M10	10X8	"	"	"	8	"	"	"	"	"
RUT-M10-M8-M10	"	8X6	"	19	"	6.3	"	"	40.2	"
RUT-M12-M6-M12	12X10	6X4	24	16	10	4	97	48.5	38.5	18
RUT-M12-M8-M12	"	8X6	"	19	"	6.3	"	"	42.7	"
RUT-M12-M10-M12	"	10X8	"	"	"	8	"	"	"	"
RUT-M19-M10-M19	19X15.8	"	32	"	16	"	123	61.5	47.2	27
RUT-M19-M12-M19	"	12X10	"	24	"	10	"	"	53.1	"
RUT-M25-M8-M25	25X22	8X6	41	19	22	6.3	147	73.5	52.2	34
RUT-M25-M12-M25	"	12X10	"	24	"	10	"	"	58	"
RUT-M25-M19-M25	"	19X15.8	"	32	"	16	"	"	66.5	"

UNIT:MM

Listed sizes are for reference only.
"T1" and "T2" indicates the O.D and I.D of applied tube.
"W" indicates the dimension of the Fitting body width.

PMU *Panel Mount Union*

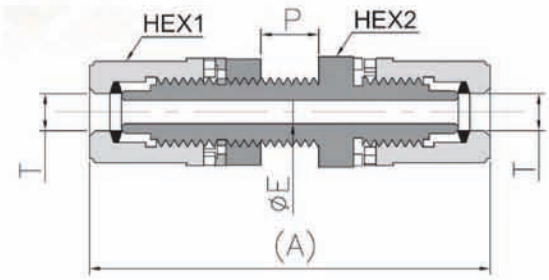
INCH TYPE

	T	ØM	P	HEX1	HEX2	(A)	ØE
PMU-H2	6.35X3.95	12.5	10	16	20	69	4
PMU-H3	9.53X6.35	18.5	"	19	23	77.3	6.3
PMU-H4	12.7X9.53	22.5	"	24	29	90.6	10
PMU-H6	19.05X15.8	31	"	32	38	106.6	16
PMU-H8	25.4X22.2	41	"	41	49	120.6	22

MM TYPE

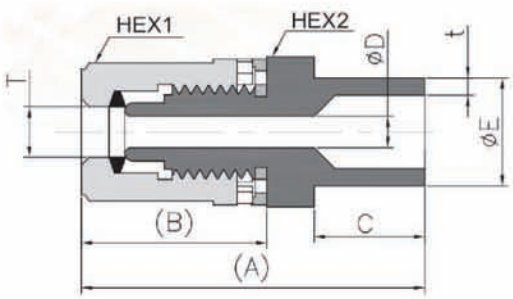
	T	M	P	HEX1	HEX2	(A)	ØE
PMU-M6	6X4	12.5	10	16	20	69	4
PMU-M8	8X6	18.5	"	19	23	77.3	6.3
PMU-M10	10X8	"	"	"	"	"	8
PMU-M12	12X10	22.5	"	24	29	90.6	10
PMU-M19	19X15.8	31	"	32	38	106.6	16
PMU-M25	25X22	41	"	41	49	120.6	22

UNIT:MM



Listed sizes are for reference only.
"P" indicates the maximum thickness of the panel.
"M" indicates the diameter of panel mount hole size.
"T" indicates the O.D and I.D of applied tube.

UA UNION ADAPTOR(Pipe welding type)



INCH TYPE

	T	HEX1	HEX2	(A)	(B)	C	ØD	ØE	t
UA-H2-B2	6.35X3.95	16	20	43.5	23.5	14	4	13.7	2.2
UA-H2-B4	"	"	"	68.5	23.5	39	"	21.3	2.8
UA-H3-B2	9.53X6.35	19	23	47.7	27.7	14	6.3	13.7	2.2
UA-H3-B4	"	"	"	72.7	"	39	"	21.3	2.8
UA-H3-B6	"	"	"	"	"	39	"	26.7	2.9
UA-H4-B2	12.7X9.53	24	29	54.3	33	14	10	13.7	2.2
UA-H4-B4	"	"	"	79.3	"	39	"	21.3	2.8
UA-H4-B6	"	"	"	"	"	"	"	26.7	2.9
UA-H4-B8	"	"	"	"	"	"	"	33.4	3.4
UA-H6-B4	19.05X15.8	32	38	87.3	41	"	16	21.3	2.8
UA-H6-B6	"	"	"	"	"	"	"	26.7	2.9
UA-H6-B8	"	"	"	"	"	"	"	33.4	3.4
UA-H8-B6	25.4X22.2	41	49	94.3	48	"	22	26.7	2.9
UA-H8-B8	"	"	"	"	"	"	"	33.4	3.4

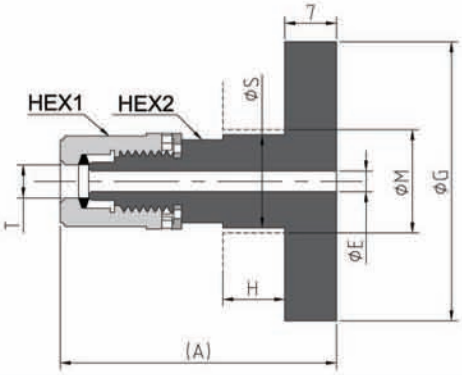
MM TYPE

	T	HEX1	HEX2	(A)	(B)	C	ØD	ØE	t
UA-M6-B2	6X4	16	20	43.5	23.5	14	4	13.7	2.2
UA-M6-B4	"	"	"	68.5	"	39	"	21.3	2.8
UA-M10-B2	10X8	19	23	47.7	27.7	14	8	13.7	2.2
UA-M10-B4	"	"	"	72.7	"	39	"	21.3	2.8
UA-M10-B6	"	"	"	"	"	"	"	26.7	2.9
UA-M12-B2	12X10	24	29	54.3	33	14	10	13.7	2.2
UA-M12-B4	"	"	"	79.3	"	39	"	21.3	2.8
UA-M12-B6	"	"	"	"	"	"	"	26.7	2.9
UA-M12-B8	"	"	"	"	"	"	"	33.4	3.4
UA-M19-B4	19X15.8	32	38	87.3	41	"	16	21.3	2.8
UA-M19-B6	"	"	"	"	"	"	"	26.7	2.9
UA-M19-B8	"	"	"	"	"	"	"	33.4	3.4
UA-M25-B6	25X22	41	49	94.3	48	"	22	26.7	2.9
UA-M25-B8	"	"	"	"	"	"	"	33.4	3.4

UNIT:MM

Listed sizes are for reference only.
"T" indicates the O.D and I.D of applied tube.

UF *Union Flange*



INCH TYPE

	T	Flange	HEX1	HEX2	H	(A)	ØE	ØG	ØS	ØM
UF-H2-15/20A	6.35X3.95	10K-15/20A	16	20	14	50.5	4	54	21.5	22.5
UF-H3-15/20A	9.53X6.35	"	19	23	"	54.7	6.3	"	24.5	25.5
UF-H3-25/32A	"	10K-25/32A	"	"	"	"	"	69	"	"
UF-H4-15/20A	12.7X9.53	10K-15/20A	24	29	"	61.3	10	54	30.5	31.5
UF-H4-25/32A	"	10K-25/32A	"	"	"	"	"	69	"	"
UF-H6-15/20A	19.05X15.8	10K-15/20A	32	38	16	71.3	16	54	40	41
UF-H6-25/32A	"	10K-25/32A	"	"	"	"	"	69	"	"
UF-H8-25/32A	25.4X22.2	10K-25/32A	41	49	"	78.3	22	"	53	54
UF-H10-40/50A	31.8X28	10K-40/50A	50	60	16	103.3	28	85	65	66
UF-H12-40/50A	38.1X33.7	"	60	64	"	109.6	33.7	"	68	69

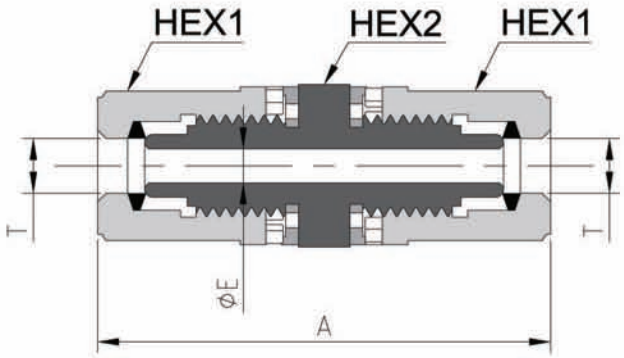
MM TYPE

	T	Flange	HEX1	HEX2	H	(A)	ØE	ØG	ØS	ØM
UF-M6-15/20A	6X4	10K-15/20A	16	20	14	50.5	4	54	21.5	22.5
UF-M8-15/20A	8X6	10K-15/20A	19	23	"	54.7	6.3	"	24.5	25.5
UF-M8-25/32A	"	10K-25/32A	"	"	"	"	"	69	"	"
UF-M10-15/20A	10X8	10K-15/20A	"	"	"	"	8	54	"	25.5
UF-M10-25/32A	"	10K-25/32A	"	"	"	"	"	69	"	"
UF-M12-15/20A	12X10	10K-15/20A	24	29	"	61.3	10	54	30.5	31.5
UF-M12-25/32A	"	10K-25/32A	"	"	"	"	"	69	"	"
UF-M19-15/20A	19X15.8	10K-15/20A	32	38	16	71.3	16	54	40	41
UF-M19-25/32A	"	10K-25/32A	"	"	"	"	"	69	"	"
UF-M25-25/32A	25X22	10K-25/32A	41	49	"	78.3	22	"	53	54

UNIT:MM

Listed sizes are for reference only.
"T" indicates the O.D and I.D of applied tube.
The Flange type is JIS 10K.

U Union



INCH TYPE

	T	HEX1	HEX2	(A)	ØE
U-H1	3.18X2.18	11	13	42.6	2
U-H2	6.35X3.95	16	20	53	4
U-H3	9.53X6.35	19	23	61.3	6.3
U-H4	12.7X9.53	24	29	73.3	10
U-H6	19.05X15.8	32	38	89.3	16
U-H8	25.4X22.2	41	49	103.3	22
U-H10	31.8X28	50	60	142.6	28
U-H12	38.1X33.7	60	70	155.2	33.7

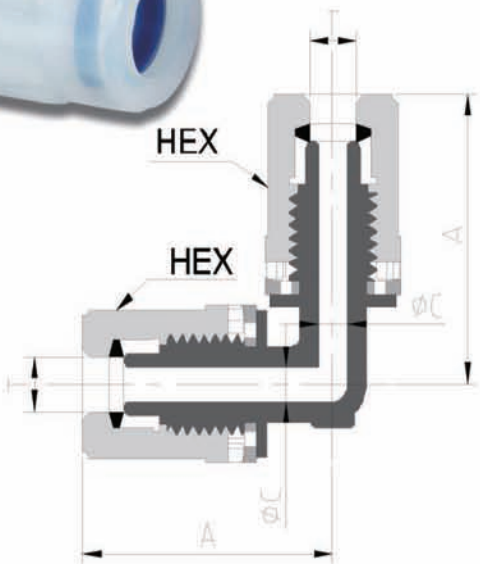
MM TYPE

	T	HEX1	HEX2	(A)	ØE
U-M3	3X2	11	13	42.6	2
U-M4	4X3	"	"	"	3
U-M6	6x4	16	20	53	4
U-M8	8x6	19	23	61.3	6.3
U-M10	10x8	"	"	"	8
U-M12	12X10	24	29	73.3	10
U-M19	19x15.8	32	38	89.3	16
U-M25	25x22	41	49	103.3	22

UNIT:MM

Listed sizes are for reference only.
"T" indicates the O.D and I.D of applied tube.

UE Union Elbow



INCH TYPE

	T	HEX	(A)	ØC	W
UE-H1	3.18X2.18	11	25.8	2	7.6
UE-H2	6.35X3.95	16	34	4	10
UE-H3	9.53X6.35	19	40.2	6	14
UE-H4	12.7X9.53	24	48.5	10	18
UE-H6	19.05X15.8	32	61.5	16	27
UE-H8	25.4X22.2	41	73.5	22	34
UE-H10	31.8X28	50	97.3	28	40
UE-H12	38.1X33.7	60	108.5	33.7	48

MM TYPE

	T	HEX	(A)	ØC	W
UE-M3	3X2	11	25.8	2	7.6
UE-M4	4X3	"	"	3	"
UE-M6	6X4	16	34	4	10
UE-M8	8X6	19	40.2	6	14
UE-M10	10X8	"	"	8	"
UE-M12	12X10	24	48.5	10	18
UE-M19	19X15.8	32	61.5	16	27
UE-M25	25X22	41	73.5	22	34

UNIT:MM

Listed sizes are for reference only.
"T" indicates the O.D and I.D of applied tube.
"W" indicates the dimension of the Fitting body width.

UEA *Union Elbow Adapter* (T Type)

INCH TYPE

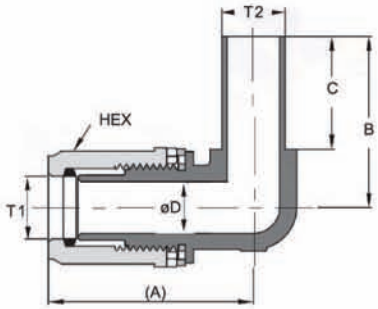
	T1	T2	HEX	(A)	B	C	ØD	W
UEA-H2-TH2	6.35X3.95	6.35X3.95	16	34	26	17	4	10
UEA-H3-TH3	9.53X6.35	9.53X6.35	19	40.2	32	21	6	14
UEA-H4-TH4	12.7X9.53	12.7X9.53	24	48.5	38.5	25	10	18
UEA-H6-TH6	19.05X15.8	19.05X15.8	32	61.5	49	31	16	27
UEA-H8-TH8	25.4X22.2	25.4X22.2	41	73.5	61	38	22	34

MM TYPE

	T1	T2	HEX	(A)	B	C	ØD	W
UEA-M6-TH2	6X4	6.35X3.95	16	34	26	17	4	10
UEA-M8-TH3	8X6	9.53X6.35	19	40.2	32	21	6	14
UEA-M10-TH3	10X8	9.53X6.35	"	"	"	"	"	"
UEA-M12-TH4	12X10	12.7X9.5	24	48.5	38.5	25	10	18
UEA-M19-TH6	19X15.8	19X15.8	32	61.5	49	31	16	27
UEA-M25-TH8	25X22	25.4X22.2	41	73.5	61	38	22	34

UNIT:MM

Listed sizes are for reference only.
"T1" indicates the O.D and I.D of applied tube.
"W" indicates the dimension of the Fitting body width.



UEA *Union Elbow Adapter* (S Type)

INCH TYPE

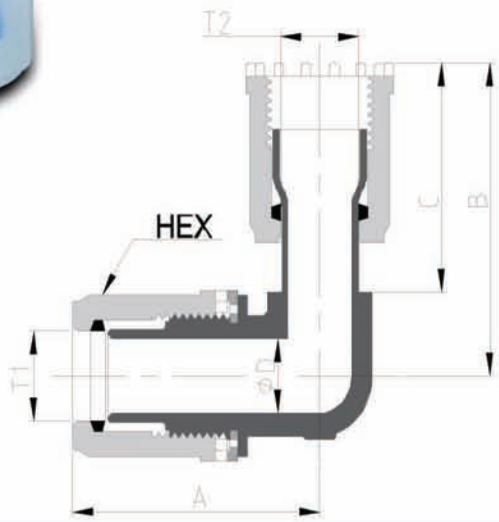
	T1	T2	HEX	(A)	(B)	(C)	ØD	W
UEA-H2-TH2S	6.35X3.95	M6 · H2	16	34	37.4	28.4	4	10
UEA-H3-TH3S	9.53X6.35	M8 · H3	19	40.2	42.4	31.4	6	14
UEA-H4-TH4S	12.7X9.53	M12 · H4	24	48.5	52.5	39	10	18
UEA-H6-TH6S	19.05X15.8	M19 · H6	32	61.5	65	47	16	27
UEA-H8-TH8S	25.4X22.2	M25 · H8	41	73.5	81.7	58.7	22	34

MM TYPE

	T1	T2	HEX	(A)	(B)	(C)	ØD	W
UEA-M6-TH2S	6X4	M6 · H2	16	34	37.4	28.4	4	10
UEA-M8-TH3S	8X6	M8 · H3	19	40.2	42.4	31.4	6	14
UEA-M10-TH3S	10X8	M8 · H3	"	"	"	"	"	"
UEA-M12-TH4S	12X10	M12 · H4	24	48.5	52.5	39	10	18
UEA-M19-TH6S	19X15.8	M19 · H6	32	61.5	65	47	16	27
UEA-M25-TH8S	25X22	M25 · H8	41	73.5	81.7	58.7	22	34

UNIT:MM

Listed sizes are for reference only.
"T1" indicates the O.D and I.D of applied tube.
"T2" indicates the size (Code) of applied Fitting body.
"W" indicates the dimension of the Fitting body width.
Due to flare design, the dimesions of "B" and "C" are reference only.



EA ELBOW ADAPTOR

INCH TYPE (S type)

	T1	(A)	(B)	W
EA-TH6S	M19 · H6	65	47	23
EA-TH8S	M25 · H8	81.7	58.7	29
EA-TH10S	H10	104.4	75.4	36.6
EA-TH12S	H12	121.3	87.4	42.6

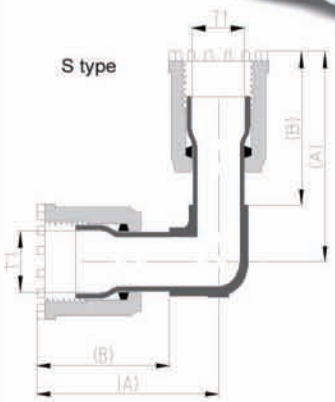
INCH TYPE (T type)

	T1	A	B	W
EA-TH6	19.05X15.8	49	31	23
EA-TH8	25.4X22.2	61	38	29
EA-TH10	31.8X28	79	50	36.6
EA-TH12	38.1X33.7	91.8	58	42.6

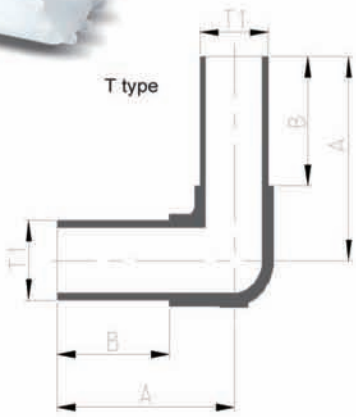
UNIT: MM

Listed sizes are for reference only.
"T1" indicates the O.D and I.D of applied tube.
"W" indicates the dimension of the Fitting body width

S type



T type



TA TEE ADAPTOR

I NCH TYPE (S type)

	T1	(A)	(B)	(C)	W
TA-TH6S	M19, H6	130	47	65	23
TA-TH8S	M25, H8	163.4	58.7	81.7	29
TA-TH10S	H10	208.8	75.4	104.4	36.6
TA-TH12S	H12	242.6	87.4	121.3	42.6

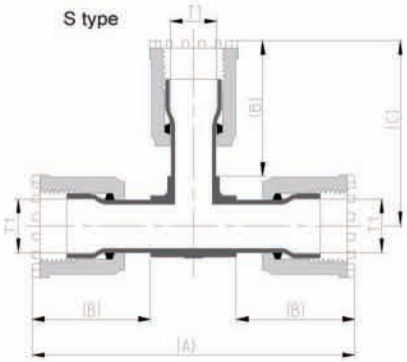
INCH TYPE (T type)

	T1	A	B	C	W
TA-TH6	19.05X15.8	98	31	49	23
TA-TH8	25.4X22.2	122	38	61	29
TA-TH10	31.8X28	158	50	79	36.6
TA-TH12	38.1X33.7	183.7	58	91.8	42.6

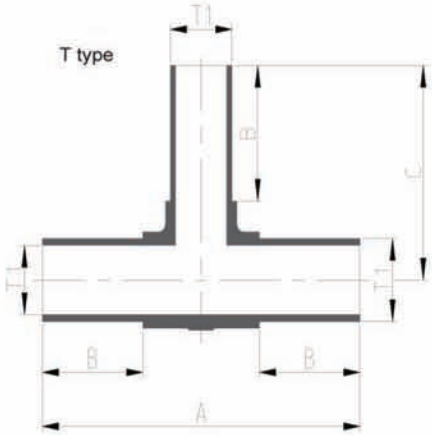
UNIT: MM

Listed sizes are for reference only.
"T1" indicates the O.D and I.D of applied tube.
"W" indicates the dimension of the Fitting body width.

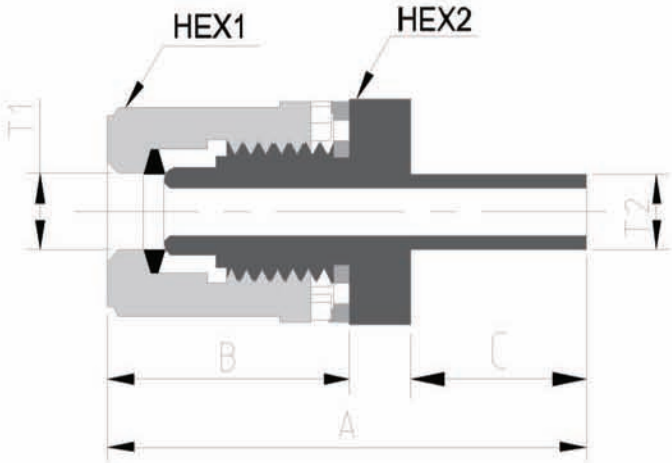
S type



T type



UA *Union Adaptor* (T Type)



INCH TYPE

	T1	T2	HEX1	HEX2	(A)	(B)	C
UA-H4-TH4	12.7X9.53	12.7X9.53	24	29	65.3	33	25
UA-H6-TH6	19.05X15.8	19.05X15.8	32	38	79.3	41	31
UA-H8-TH8	25.4X22	25.4X22	41	49	93.3	48	38

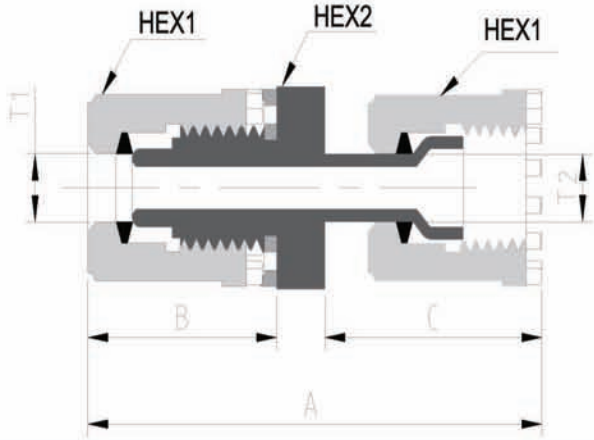
MM TYPE

	T1	T2	HEX1	HEX2	(A)	(B)	C
UA-M12-TH4	12X10	12.7X9.53	24	29	65.3	33	25
UA-M19-TH6	19X15.8	19.05X15.8	32	38	79.3	41	31
UA-M25-TH8	25X22	25.4X22	41	49	93.3	48	38

UNIT:MM

Listed sizes are for reference only.
T1 and T2 indicates the O.D and I.D of applied tube.

UA *Union Adaptor* (S Type)



INCH TYPE

	T1	T2	HEX1	HEX2	(A)	(B)	C
UA-H4-TH4S	12.7X9.53	M12,H4	24	29	79.3	33	39
UA-H6-TH6S	19.05X15.8	M19,H6	32	38	89.3	41	47
UA-H8-TH8S	25.4X22	M25,H8	41	49	114	48	58.7

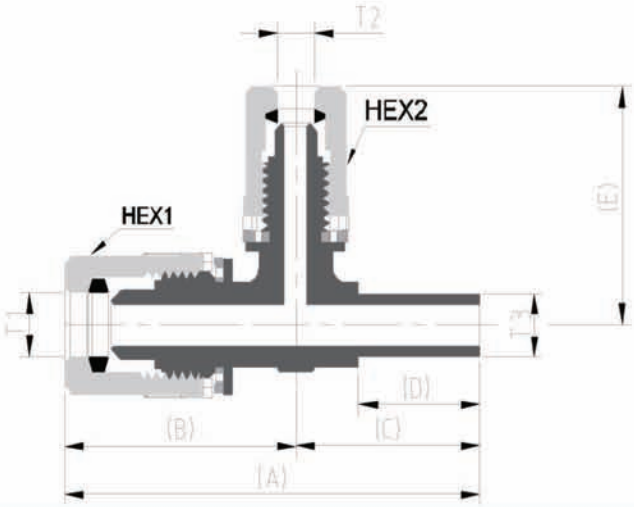
MM TYPE

	T1	T2	HEX1	HEX2	(A)	(B)	C
UA-M12-TH4S	12X10	M12,H4	24	29	79.3	33	39
UA-M19-TH6S	19X15.8	M19,H6	32	38	89.3	41	47
UA-M25-TH8S	25X22	M25,H8	41	49	114	48	58.7

UNIT:MM

Listed sizes are for reference only.
T1 and T2 indicates the O.D and I.D of applied tube.

RUTA *REDUCING UNION TEE ADAPTOR* (T Type)



INCH TYPE

	T1	T2	T3	HEX1	HEX2	(A)	(B)	(C)	(D)	(E)
RUTA-H3-H4-TH4	9.53X6.35	12.7X9.53	12.7X9.53	19	24	81.2	42.7	38.5	25	48.5
RUTA-H3-H2-TH3	9.53X6.35	6.35X3.95	9.53X6.35	19	16	72.2	40.2	32	21	36

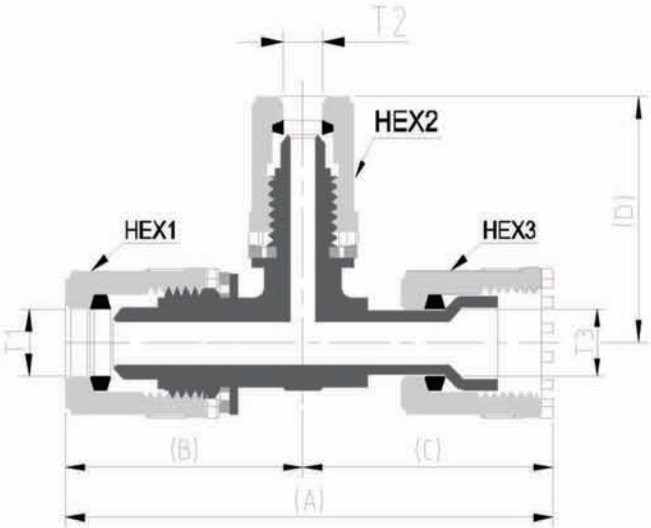
MM TYPE

	T1	T2	T3	HEX1	HEX2	(A)	(B)	(C)	(D)	(E)
RUTA-M8-M12-TH4	8x6	12x10	12.7X9.53	19	24	81.2	42.7	38.5	25	48.5
RUTA-M8-M6-TH3	8x6	6x4	9.53X6.35	19	16	72.2	40.2	32	21	36

UNI T: MM

Listed sizes are for reference only.
T1, T2 and T3 indicates the O.D and I.D of applied tube.
"W" indicates the dimension of the Fitting body width.

RUTA *REDUCING UNION TEE ADAPTOR* (S Type)



INCH TYPE

	T1	T2	T3	HEX1	HEX2	HEX3	(A)	(B)	(C)	(D)
RUTA-H3-H4-TH4S	9.53X6.35	12.7X9.53	M12,H4	19	24	24	95.2	42.7	52.5	48.5
RUTA-H3-H2-TH3S	9.53X6.35	6.35X3.95	M8,H3	19	16	19	82.6	40.2	42.4	36

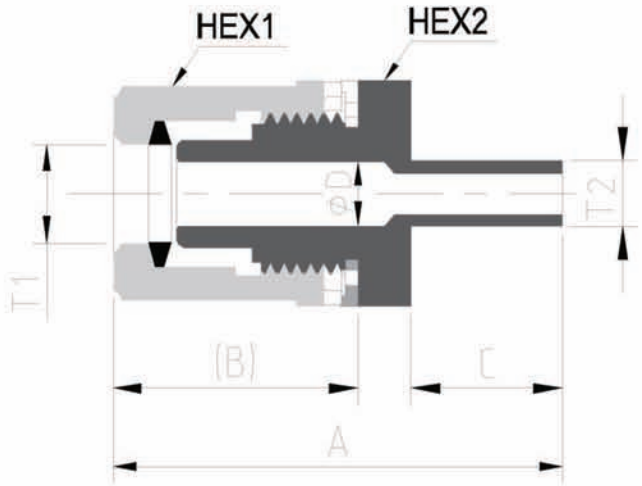
MM TYPE

	T1	T2	T3	HEX1	HEX2	HEX3	(A)	(B)	(C)	(D)
RUTA-M8-M12-TH4S	8x6	12x10	M12,H4	19	24	24	95.2	42.7	52.5	48.5
RUTA-M8-M6-TH3S	8x6	6x4	M8,H3	19	16	19	82.6	40.2	42.4	36

UNI T: MM

Listed sizes are for reference only.
T1, T2 and T3 indicates the O.D and I.D of applied tube.
"W" indicates the dimension of the Fitting body width.

RUA *REDUCING UNION ADAPTOR* (T Type)



INCH TYPE

	T1	T2	HEX1	HEX2	(A)	(B)	C	ØD
RUA-H4-TH3	12.7X9.53	9.53X6.35	24	29	61.3	33	21	10

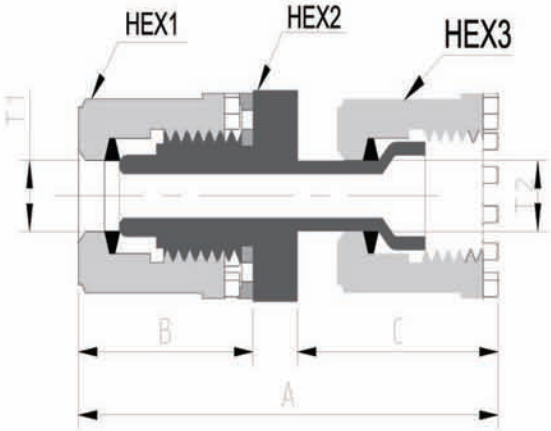
MM TYPE

	T1	T2	HEX1	HEX2	(A)	(B)	C	ØD
RUA-M12-TH3	12X10	9.53X6.35	24	29	61.3	33	21	10

UNIT: MM

Listed sizes are for reference only.
"T1" and "T2" indicates the O.D and I.D of applied tube.

RUA *REDUCING UNION ADAPTOR* (S Type)



INCH TYPE

	T1	T2	HEX1	HEX2	HEX3	(A)	(B)	C	ØD
RUA-H4-TH3S	12.7X9.53	M8,H3	24	29	19	71.7	33	31.4	10

MM TYPE

	T1	T2	HEX1	HEX2	HEX3	(A)	(B)	C	ØD
RUA-M12-TH3S	12X10	M8,H3	24	29	19	71.7	33	31.4	10

UNIT: MM

Listed sizes are for reference only.
"T1" and "T2" indicates the O.D and I.D of applied tube.

RA REDUCING ADAPTOR

INCH TYPE (S Type)

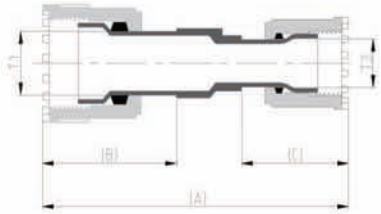
	T1	T2	(A)	(B)	(C)
RA-TH10S-TH6S	H10	M19, H6	152.5	75.4	47
RA-TH10S-TH8S	"	M25, H8	164.2	"	58.7
RA-TH12S-TH6S	H12	M19, H6	164.5	87.4	47
RA-TH12S-TH8S	"	M25, H8	176.2	"	58.7
RA-TH12S-TH10S	"	H10	192.9	"	75.4

INCH TYPE (T Type)

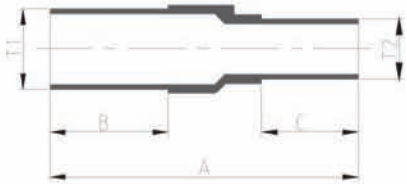
	T1	T2	A	B	C
RA-TH10-TH6	31.8X28	19.05X15.8	111.1	50	31
RA-TH10-TH8	"	25.4X22.2	118.1	"	38
RA-TH12-TH6	38.1X33.7	19.05X15.8	119.1	58	31
RA-TH12-TH8	"	25.4X22.2	126.1	"	38
RA-TH12-TH10	"	31.8X28	138.1	"	50

UNIT: MM

(S Type)

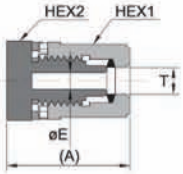


(T Type)



Listed sizes are for reference only.
"T1" & "T2" indicates the O.D and I.D of applied tube.

CP *Cap*



INCH TYPE

	T	HEX1	HEX2	(A)	ØE
CP-H2	6.35X3.95	16	20	29.5	4
CP-H3	9.53X6.35	19	23	33.7	6.3
CP-H4	12.7X9.53	24	29	40.3	10
CP-H6	19.05X15.8	32	38	48.3	16
CP-H8	25.4X22.2	41	49	55.3	22

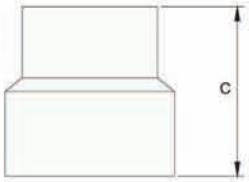
MM TYPE

	T	HEX1	HEX2	(A)	ØE
CP-M6	6X4	16	20	29.5	4
CP-M8	8X6	19	23	33.7	6.3
CP-M10	10X8	"	"	"	8
CP-M12	12X10	24	29	40.3	10
CP-M19	19X15.8	32	38	48.3	16
CP-M25	25X22	41	49	55.3	22

UNIT:MM

Listed sizes are for reference only.
"T" indicates the O.D and I.D of applied tube.

E *Fitting End*



INCH TYPE

	T	C
E-H1X10	3.18X2.18	7
E-H2X10	6.35X3.95	9.4
E-H3X10	9.53X6.35	13.7
E-H4X10	12.7X9.53	15.8
E-H6X10	19.05X15.8	17.6
E-H8X10	25.4X22.2	22.5
E-H10X10	31.8X28	30.5
E-H12X10	38.1X33.7	34

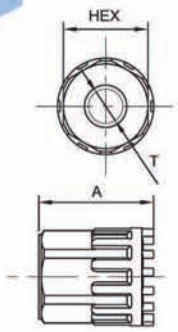
MM TYPE

	T	C
E-M3X10	3X2	7
E-M4X10	4X3	7
E-M6X10	6X4	9.4
E-M8X10	8X6	13.7
E-M10X10	10X8	12
E-M12X10	12X10	15.8
E-M19X10	19X15.8	17.6
E-M25X10	25X22	22.5

UNIT:MM

Listed sizes are for reference only.
"T" indicates the O.D and I.D of applied tube.

UN *Union Nut*



INCH TYPE

	T	A	HEX
UN-H1X10	3.18X2.18	16.3	11
UN-H2 X10	6.35X3.95	21.7	16
UN-H3 X10	9.53X6.35	25.9	19
UN-H4 X10	12.7X9.53	30.5	24
UN-H6 X10	19.05X15.8	38.5	32
UN-H8 X 5	25.4X22.2	45.5	41
UN-H10	31.8X28	60.7	50
UN-H12	38.1X33.7	68	60

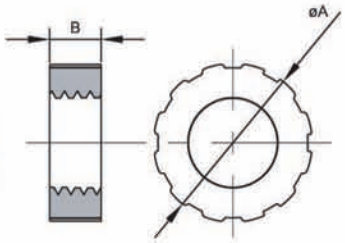
MM TYPE

	T	A	HEX
UN-M3X10	3X2	16.3	11
UN-M4X10	4X3	"	"
UN-M6 X10	6X4	21.7	16
UN-M8 X10	8X6	25.9	19
UN-M10 X10	10X8	23.9	"
UN-M12 X10	12X10	30.5	24
UN-M19 X10	19X15.8	38.5	32
UN-M25 X5	25X22	45.5	41

UNIT:MM

Listed sizes are for reference only.
"T" indicates the O.D and I.D of applied tube.

HN *Half Nut*



INCH TYPE

	T	ØA	B
HN-H2X10	6.35X3.95	18.5	6
HN-H3X10	9.53X6.35	22	6
HN-H4X10	12.7X9.53	27.7	7.3
HN-H6X10	19.05X15.8	37	7.3
HN-H8X10	25.4X22.2	47.3	7.3

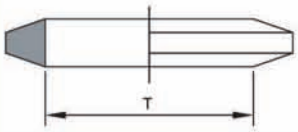
MM TYPE

	T	ØA	B
HN-M6X10	6X4	18.5	6
HN-M8/M10X10	8X6/10X8	22	6
HN-M12X10	12X10	27.7	7.3
HN-M19X10	19X15.8	37	7.3
HN-M25X10	25X22	47.3	7.3

UNIT:MM

Listed sizes are for reference only.
"T" indicates the O.D and I.D of applied tube.

RI *Ring*



MAT'L:PVDF
INCH TYPE

	T
RI-H1VX10	3.18X2.18
RI-H2VX10	6.35X3.95
RI-H3VX10	9.53X6.35
RI-H4VX10	12.7X9.53
RI-H6VX10	19.05X15.8
RI-H8VX10	25.4X22.2
RI-H10V	31.8X28
RI-H12V	38.1X33.7

UNIT:MM

MAT'L:PVDF
MM TYPE

	T
RI-M3VX10	3x2
RI-M4VX10	4x3
RI-M6VX10	6X4
RI-M8VX10	8X6
RI-M10VX10	10X8
RI-M12VX10	12X10
RI-M19VX10	19X15.8
RI-M25VX10	25X22

MAT'L:PPS
INCH TYPE

	T
RI-H2S X10	6.35X3.95
RI-H3S X10	9.53X6.35
RI-H4S X10	12.7X9.53
RI-H6S X10	19.05X15.8
RI-H8S X10	25.4X22.2

MAT'L:PPS
MM TYPE

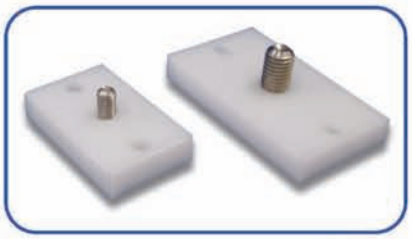
	T
RI-M6SX10	6X4
RI-M8SX10	8X6
RI-M10SX10	10X8
RI-M12SX10	12X10
RI-M19SX10	19X15.8
RI-M25SX10	25X22

UNIT:MM

Listed sizes are for reference only.
"T" indicates the O.D and I.D of applied tube.

HEAT FLARING TOOLS

▲ JA



▲ BA

Be sure to use our nut wrench for cold flaring . Heat flaring is the basic, but cold flaring only is possible on some fixed sizes.
(only heat flaring on sizes 1-1/4", 1-1/2" ; only cold flaring on 1/8",3mm and 4mm)
Connection method of fitting refers to operation manual.

Tube size		Applicable tools	
Inch series	mm series	Tool No.	Tool base No.
1/4" (6.35X3.95)	6X4	JA-H2/M6	BA-1
3/8" (9.53X6.35)	8X6	JA-H3/M8	
—	10X8	JA-M10	
1/2" (12.7X9.53)	12X10	JA-H4/M12	BA-2
3/4" (19.05X15.8)	19X15.8	JA-H6/M19	
1" (25.4X22.2)	25X22	JA-H8/M25	
11/4" (31.8X28)	—	JA-H10	not required
11/2" (38.1X33.7)	—	JA-H12	

COLD FLARING TOOLS

▲ JC

▲ JC-AP

Tube size		Applicable tools	
Inch series	mm series	Tool No.	Attachment
1/8"(3.18×2.18)	3X2	JC-H1/M3	JC-AP , depending required or not
—	4X3	JC-M4	
1/4" (6.35X3.95)	6X4	JC-H2/M6	
3/8" (9.53X6.35)	—	JC-H3	
—	8X6	JC-M8	
—	10X8	JC-M10	
1/2" (12.7X9.53)	12X10	JC-H4/M12	
3/4" (19.05X15.8)	19X15.8	JC-H6/M19	
1" (25.4X22.2)	25X22	JC-H8/M25	

NOTE: JC-AP required or not depends on tool body
Welcome to contact us if JC-AP are required .

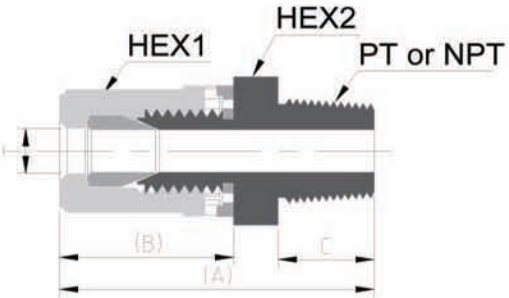
SPECIAL WRENCH FOR FIT-ONE

Tube size		Wrench no.
Inch series	mm series	
1/4" (6.35X3.95)	6X4	SP-H2/M6
3/8" (9.53X6.35)	8X6、10×8	SP-H3/M8/M10
1/2" (12.7X9.53)	12X10	SP-H4/M12
3/4" (19.05X15.8)	19X15.8	SP-H6/M19
1" (25.4X22.2)	25X22	SP-H8/M25
11/4" (31.8X28)	—	SP-H10
11/2" (38.1X33.7)	—	SP-H12

MCT *MALE CONNECTOR THROUGH*

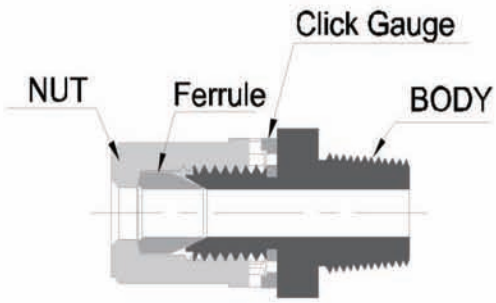
INCH + NPT TYPE

	T	NPT	HEX1	HEX2	(A)	(B)	C
MCT-H1-N1	3.18X2.18	1/8"	11	13	33.8	18.8	9
MCT-H2-N1	6.35X3.95	1/8"	16	20	38.5	23.5	9
MCT-H2-N2	"	1/4"	"	"	42.5	"	13
MCT-H2-N3	"	3/8"	"	"	"	"	"
MCT-H3-N3	9.53x6.35	3/8"	19	23	46.7	27.7	"
MCT-H3-N4	"	1/2"	"	"	50.5	"	16.8
MCT-H4-N4	12.7x9.53	1/2"	24	29	57.1	33	16.8
MCT-H4-N6	"	3/4"	"	"	57.4	"	17.1
MCT-H6-N6	19.05X15.8	3/4"	32	38	65.4	41	"
MCT-H6-N8	"	1"	"	"	69.7	"	21.4
MCT-H8-N8	25.4x22.2	1"	41	49	76.7	48	21.4



MM + PT TYPE

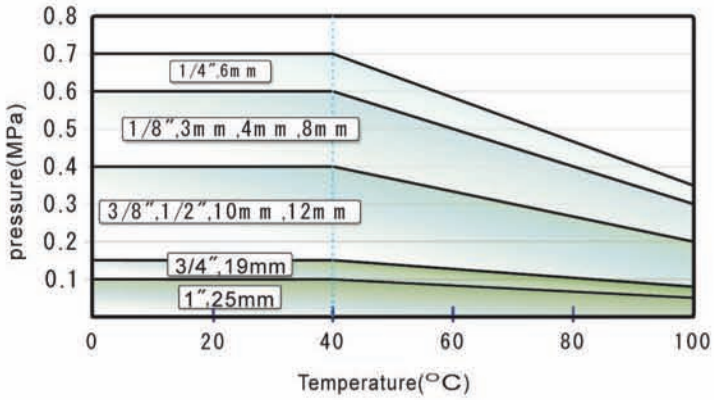
	T	PT	HEX1	HEX2	(A)	(B)	C
MCT-M3-R1	3X2	1/8"	11	13	33.8	18.8	9
MCT-M4-R1	4X3	"	"	"	"	"	"
MCT-M4-R2	"	1/4"	"	"	37.8	"	13
MCT-M6-R1	6X4	"	16	20	38.5	23.5	9
MCT-M6-R2	"	1/4"	"	"	42.5	"	13
MCT-M6-R3	"	3/8"	"	"	"	"	"
MCT-M8-R2	8X6	1/4"	19	23	46.7	27.7	13
MCT-M8-R3	"	3/8"	"	"	"	"	13
MCT-M8-R4	"	1/2"	"	"	50.5	"	16.8
MCT-M10-R3	10X8	3/8"	"	"	46.7	"	13
MCT-M10-R4	"	1/2"	"	"	50.5	"	16.8
MCT-M12-R4	12x10	1/2"	24	29	57.1	33	16.8
MCT-M12-R6	"	3/4"	"	"	57.4	"	17.1
MCT-M19-R6	19X15.8	3/4"	32	38	65.4	41	"
MCT-M19-R8	"	1"	"	"	69.7	"	21.4
MCT-M25-R8	25X22	1"	41	49	76.7	48	21.4



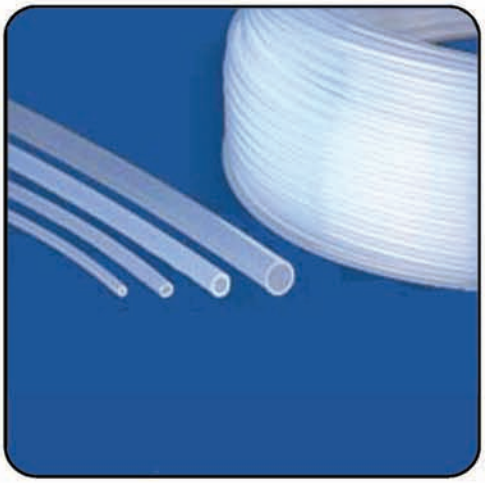
INCH + PT TYPE

	T	PT	HEX1	HEX2	(A)	(B)	C
MCT-H1-R1	3.18X2.18	1/8"	11	13	33.8	18.8	9
MCT-H2-R1	6.35X3.95	1/8"	16	20	38.5	23.5	"
MCT-H2-R2	"	1/4"	"	"	42.5	"	13
MCT-H2-R3	"	3/8"	"	"	"	"	"
MCT-H3-R3	9.53X6.35	3/8"	19	23	46.7	27.7	"
MCT-H3-R4	"	1/2"	"	"	50.5	"	16.8
MCT-H4-R4	12.7x9.53	1/2"	24	29	57.1	33	16.8
MCT-H4-R6	"	3/4"	"	"	57.4	"	17.1
MCT-H6-R6	19.05X15.8	3/4"	32	38	65.4	41	"
MCT-H6-R8	"	1"	"	"	69.7	"	21.4
MCT-H8-R8	25.4x22.2	1"	41	49	76.7	48	21.4

UNIT: MM



Listed sizes are for reference only.
"T" indicates the O.D and I.D of applied tube.



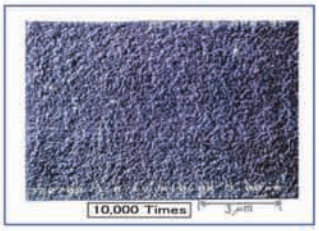
FEATURES

- **Excellent chemical resistance** PFA does not interact with the vast majority of chemicals, and has extremely good resistance against chemicals and solutions in general.
- **Wide range of operation temperature** PFA has great thermal stability; the material can be used continuously at a maximum of 260 degree C without degrading, and its low permeability allows for operation in environments as low as -60 degree C.
- **Non-stick properties** PFA is a low friction material that is water and oil repellent.
- **Excellent weather ability** PFA does not wear or deform under the exposure of sunlight, rain, and exhaust gas. Its properties are not affected even when left under outdoor environments for an extended period of time.
- **Excellent insulation material** PFA has extremely low dielectric constant and dielectric dissipation.
- **Long product life** PFA has the lowest friction coefficient in all polymers; as a result, the material is highly resistant to wear and thus reduces the potential replacement costs.

PFA PHYSICAL PROPERTIES

Item	Test Method	Unit	Standard Value
Density	JIS K 6890-5.2	-	2.12~2.17
Melting Point	JIS K 6890-5.3	^{0}C	295~310
Tensile Strength	JIS K 6890-5.4	Mpa(kgf/cm^2)	15.7(160)up
Elongation		%	150 up
MFR Value		g/10min	1~3

SURFACE ROUGHNESS



MATERIAL

PFA

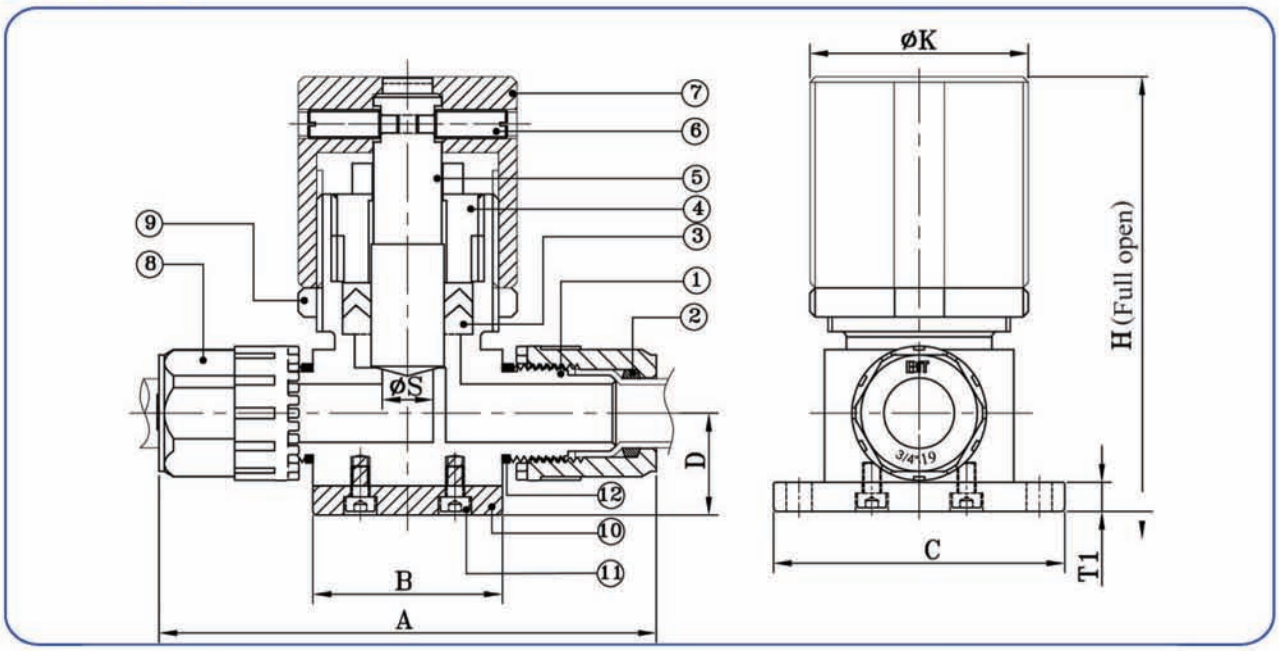
SPECIFICATION Unit:mm

	Size	O.D.	I.D.	Wall TK.	Tolerance	
					O.D.	Wall TK.
mm size	3	3	2	0.5	±0.1	±0.05
	4	4	3	0.5	±0.1	±0.05
	6	6	4	1	±0.1	±0.06
	8	8	6	1	±0.12	±0.06
	10	10	8	1	±0.12	±0.06
	12	12	10	1	±0.12	±0.06
	19	19	15.8	1.6	±0.12	±0.10
	25	25	22	1.5	±0.2	±0.10
Inch size	1/8	3.18	2.18	0.5	±0.10	±0.05
	1/4	6.35	3.95	1.2	±0.10	±0.10
	3/8	9.53	6.35	1.6	±0.12	±0.10
	1/2	12.7	9.53	1.6	±0.12	±0.10
	3/4	19.05	15.8	1.6	±0.12	±0.10
	1	25.4	22.2	1.6	±0.2	±0.10
	1 1/4	31.8	28	1.9	±0.25	±0.15
	1 1/2	38.1	33.7	2.2	±0.25	±0.15

FEATURE

- Excellent chemical resistance
- Ideal for use as a sample valve
- Wide operational temperature range: 32° ~ 212°F (0°~100°C)

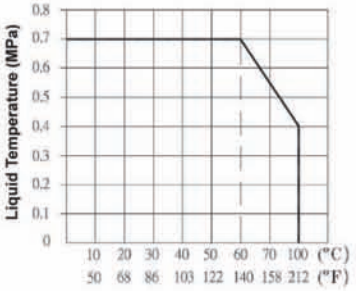
DRAWING



DESCRIPTION

ITEM NO.	DESCRIPTION	MATERIAL		Q'TY
01	Body	PFA / PTFE		1
02	Impact Ring	PVDF		2
03	Follower	PTFE		1
04	Follower Nut	PFA / PTFE		1
05	Stem	PFA / PTFE		1
06	Stoppor Blot	PTFE		2
07	Handle Nut	PFA / PTFE / PP		1
08	Body Nut	PFA / PTFE / PVDF		2
09	Stoppor Nut	PFA / PTFE		1
10	Adapting Flange	PFA / P TFE / PP		1
11	Adapting Flange Blot	PTFE	W2~W4	2
			W6.W8	4
12	Click-Gauge	ETFE		2

PRESSURE & TEMPERATURE



Liquid Temperature

Max Operating Temperature	100°C	212°F
Max Operating Pressure	0.7MPa	0.7MPa
Using	Liquid	Liquid

DIMENSIONS

SIZE IN	ITEM NO.	TUBE ODxID	DIMENSIONS mm												
			A	B	C	D	S	K	T1	P1	P2	F	Hole	H(full open)	CF valum
1/4"	CSV-PW2A	6.35x3.95	80	34	60	20	7	38	8	46		7	2	94	0.7
3/8"	CSV-PW3A	9.53x6.33	79	34	60	20	7	38	8	46		7	2	94	0.9
1/2"	CSV-PW4A	12.7x9.5	102	38	63	20	9	42	8	51		7	2	104	1.5
3/4"	CSV-PW6A	19.0x15.8	135	52	80	25	14	60	8	66	22	7	4	132	4.5
1"	CSV-PW8A	25.4x22.2	170	68	104	35	20	75	8	86	50	10	4	161	9.0