

PFA TUBES AND PIPES



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	°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



APPLICATION

Because PFA is possessed of against corrosion's feature, it is widely accepted in semiconductor, optoelectronics, pharmaceutical, food and beverage, petrochemical, refining, biochemical, cosmetics, and high purity water industries

MATERIAL

PFA

SPECIFICATION Unit:mm

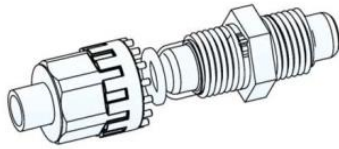
	Size	O.D.	I.D.	Wall TK.	Tolerance	
					O.D.	Wall TK.
mm size	3	3	2	0.5	±0.1	±0.05
	4	4	3	0.5	±0.1	±0.05
	6	6	4	1	±0.1	±0.06
	8	8	6	1	±0.12	±0.06
	10	10	8	1	±0.12	±0.06
	12	12	10	1	±0.12	±0.06
	19	19	15.8	1.6	±0.12	±0.10
Inch size	25	25	22	1.5	±0.2	±0.10
	1/8	3.18	2.18	0.5	±0.10	±0.05
	1/4	6.35	3.95	1.2	±0.10	±0.10
	3/8	9.53	6.35	1.6	±0.12	±0.10
			7.53	1	±0.12	±0.06
	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
	2	50.8	45.64	2.58	±0.25	±0.2

REMARK

1. Length, tolerance the length of tube is shown as meter(s), tol is 0~±2%.
2. Customize size order is accepted
3. Surface roughness is as per SEMI F52-1101, $\mu m \leq 0.25$, $\mu in \leq 10$.
4. Metal Dissolving volume is as per SEMI F57-0301

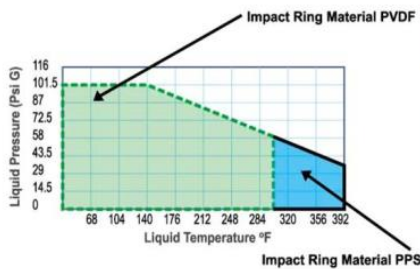
COMPRESSION RING TYPE FITTINGS

Fluoropolymer Fitting FIT-ONE



SPECIFICATIONS

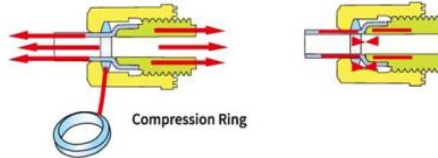
Maximum Operating Temperature: 392°F
(Varies upon the Material of Impact-Ring)
Maximum Operating Pressure: 101.5 Psi G
Applicable Fluid: Liquid
Applicable Tube Material: PFA or PTFE
Material: NUT: PFA
Body: PFA or PTFE



Designed with simplicity and easy of installation, FIT-ONE overcomes the shortcoming which flare type fittings have in common : lacking resistivity
The development of such revolutionary fitting is made possible by our business model, introducing the following features :

High resistivity against pulling makes a reliable fitting

FIT-ONE Impact-Ring design is a perfect solution to the shortcoming of general flare type fitting.

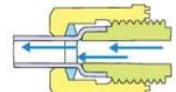


The Impact-Ring firmly grips the tube, achieving high resistivity against pull.

The screw nut will pressure the Impact-Ring when fastened to the designated location, securing the conjunction between the tube and the body.

Small fluid pressure loss and easy replacement of liquids

Low torque fastening nut helps securing the flow of fluid path minimizing the loss of fluid pressure while decreasing liquid remnants. As a result, the replacement of liquids can be carried out easily.

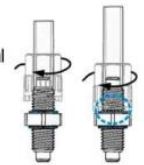


Click-Gauge as the fastening reminder

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

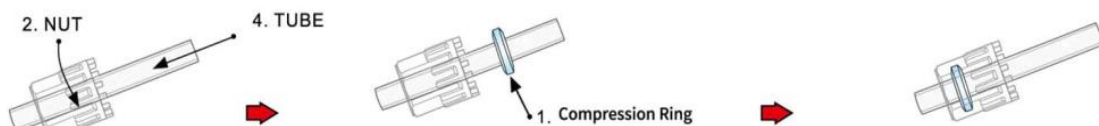


When the nut is fastened to the optimal location of the body, the gauge will notify the operator either through vibration or sound

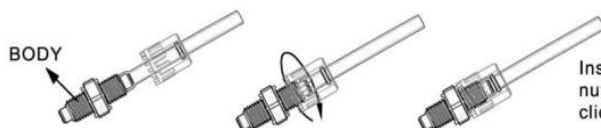
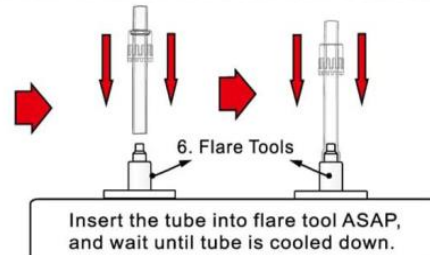
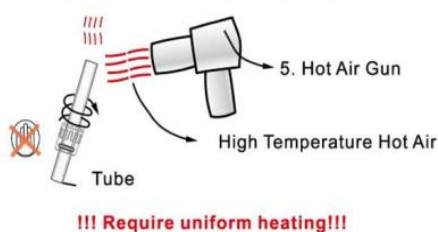


Assembly Method

Components and assembly tools

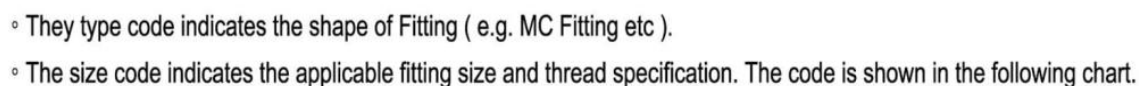


First insert a tube into the nut, then insert the Impact Ring..



Insert flared PFA tube into the fitting body, then tighten the nut until the bottom paws of which contacts nut head and click-Gauge. (Notice : be careful of excessive)

Product Coding Rules



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
	1 1/4"	H10
	1 1/2"	H12

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

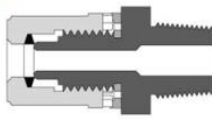
SIZE	Applicable Code	
	NPT	PT
1/8"	N1	R1
1/4"	N2	R2
3/8"	N3	R3
1/2"	N4	R4
3/4"	N6	R6
1"	N8	R8
1 1/4"	N10	R10
1 1/2"	N12	R12

e,q, :
select RUT tupe with inch size
tube of 3/4" 1/2" 3/4",the code
to be RUT-H6-H4-H6

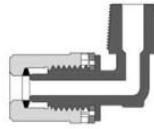
IMPACT RING TYPE FITTINGS

Fitting List

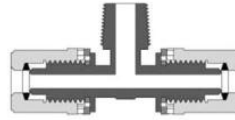
MC



ME



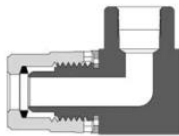
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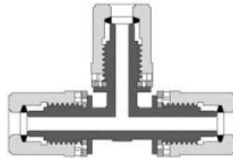
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FE



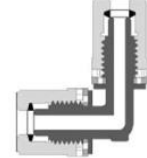
UT



U

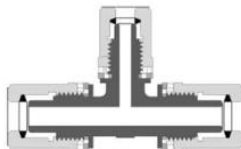


UE



IMPACT RING TYPE FITTINGS

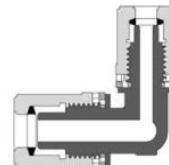
RUT



RU



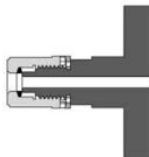
RUE



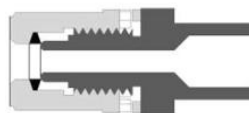
PMU



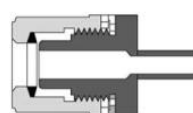
UF



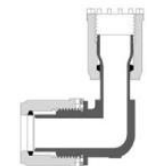
UA



RUA



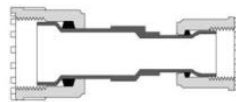
UEA



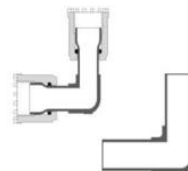
RUEA



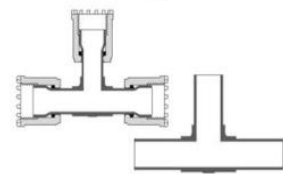
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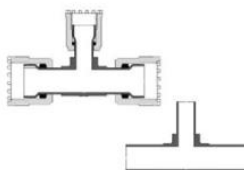
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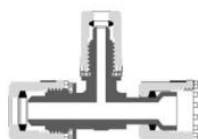
TA



RTA



RUTA



UTA

A type



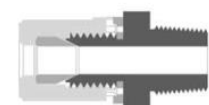
B type



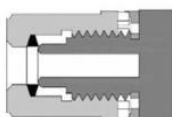
C type



MCT



CP



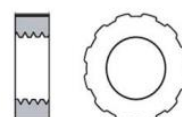
E



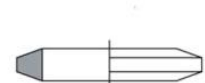
UN



HN

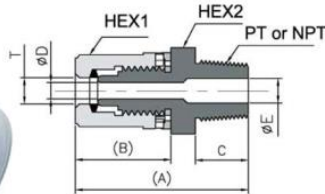


RI



IMPACT RING TYPE FITTINGS

MC Male Connector



INCH+NPT TYPE

	T	NPT	HEX1	HEX2	(A)	(B)	C	ØD	ØE
MC-H1-N1	3.18X2.18	1/8"	11	13	32.3	17.3	9	2	3
MC-H1-N2	"	1/4"	"	"	36.3	"	13	"	6
MC-H2-N1	6.35X3.95	1/8"	16	20	38.2	23.2	9	4	3
MC-H2-N2	"	1/4"	"	"	42.2	"	13	"	6
MC-H2-N3	"	3/8"	"	"	"	"	"	"	10
MC-H3-N2	9.53X6.35	1/4"	19	23	46.4	27.4	"	6.3	6.3
MC-H3-N3	"	3/8"	"	"	"	"	"	"	10
MC-H3-N4	"	1/2"	"	"	50.2	"	16.8	"	12
MC-H4-N2	12.7X9.53	1/4"	24	29	53.3	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	64.6	40.5	16.8	16	12
MC-H6-N6	"	3/4"	"	"	64.9	"	17.1	"	16
MC-H6-N8	"	1"	"	"	69.2	"	21.4	"	22
MC-H8-N6	25.4X22.2	3/4"	41	49	71.9	47.5	17.1	22	16
MC-H8-N8	"	1"	"	"	76.7	"	21.4	"	22
MC-H10-N10	31.8x28	1 1/4"	50	60	100.7	63.7	25	28	28
MC-H12-N12	38.1x33.7	1 1/2"	60	70	111	71	28	33.7	33.7

MM+PT TYPE

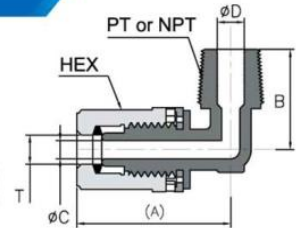
	T	PT	HEX1	HEX2	(A)	(B)	C	ØD	ØE
MC-M3-R1	3X2	1/8"	11	13	32.3	17.3	9	2	3
MC-M3-R2	"	1/4"	"	"	36.3	"	13	"	6
MC-M4-R1	4X3	1/8"	11	13	32.3	17.3	9	3	3
MC-M4-R2	"	1/4"	"	"	36.3	"	13	"	6
MC-M6-R1	6X4	1/8"	16	20	38.2	23.2	9	4	3
MC-M6-R2	"	1/4"	"	"	42.2	"	13	"	6
MC-M6-R3	"	3/8"	"	"	"	"	"	"	10
MC-M8-R1	8X6	1/8"	19	23	42.4	27.4	9	6.3	3
MC-M8-R2	"	1/4"	"	"	46.4	"	13	"	6.3
MC-M8-R3	"	3/8"	"	"	"	"	"	"	10
MC-M8-R4	"	1/2"	"	"	50.2	"	16.8	"	12
MC-M10-R2	10X8	1/4"	"	"	46.4	"	13	8	6
MC-M10-R3	"	3/8"	"	"	"	"	"	"	10
MC-M10-R4	"	1/2"	"	"	50.2	"	16.8	"	12
MC-M12-R2	12X10	1/4"	24	29	53.3	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	64.6	40.5	16.8	16	12
MC-M19-R6	"	3/4"	"	"	64.9	"	17.1	"	16
MC-M19-R8	"	1"	"	"	69.2	"	21.4	"	22
MC-M25-R6	25X22	3/4"	41	49	71.9	47.5	17.1	22	16
MC-M25-R8	"	1"	"	"	76.2	"	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	32.3	17.3	9	2	3
MC-H1-R2	"	1/4"	"	"	36.3	"	13	"	6
MC-H2-R1	6.35X3.95	1/8"	16	20	38.2	23.2	9	4	3
MC-H2-R2	"	1/4"	"	"	42.2	"	13	"	6
MC-H2-R3	"	3/8"	"	"	"	"	"	"	10
MC-H3-R2	9.53X6.35	1/4"	19	23	46.4	27.4	"	6.3	6.3
MC-H3-R3	"	3/8"	"	"	"	"	"	"	10
MC-H3-R4	"	1/2"	"	"	50.2	"	16.8	"	12
MC-H4-R2	12.7X9.53	1/4"	24	29	53.3	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	64.6	40.5	16.8	16	12
MC-H6-R6	"	3/4"	"	"	64.9	"	17.1	"	16
MC-H6-R8	"	1"	"	"	69.2	"	21.4	"	22
MC-H8-R6	25.4X22.2	3/4"	41	49	71.9	47.5	17.1	22	16
MC-H8-R8	"	1"	"	"	76.2	"	21.4	"	22

UNIT:MM

ME Male Elbow



INCH+NPT TYPE

	T	NPT	HEX	(A)	B	ØC	ØD	W
ME-H1-N1	3.18X2.18	1/8"	11	24.8	17.5	2	3	7.6
ME-H1-N2	"	1/4"	"	"	21.5	"	6	"
ME-H2-N1	6.35X3.95	1/8"	16	33.7	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	39.9	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-N3	19.05X15.8	3/8"	32	61	31	16	10	27
ME-H6-N4	"	1/2"	"	"	34.8	"	12	"
ME-H6-N6	"	3/4"	"	"	37.1	"	16	"
ME-H8-N6	25.4X22.2	"	41	73	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	24.8	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	33.7	18	4	3	10
ME-M6-R2	"	1/4"	"	"	22	"	6	"
ME-M6-R3	"	3/8"	"	"	"	"	10	"
ME-M8-R1	8X6	1/8"	19	39.9	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	34.8	16	12	27
ME-M19-R6	"	3/4"	"	"	37.1	"	16	"
ME-M25-R4	25X22	1/2"	41	73	39.8	22	12	34
ME-M25-R6	"	3/4"	"	"	42.1	"	16	"
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	24.8	17.5	2	3	7.6
ME-H1-R2	"	1/4"	"	"	21.5	"	6	"
ME-H2-R1	6.35X3.95	1/8"	16	33.7	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	39.9	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	34.8	16	12	27
ME-H6-R6	"	3/4"	"	"	37.1	"	16	"
ME-H8-R6	25.4X22.2	"	41	73	42.1	22	"	34
ME-H8-R8	"	1"	"	"	46.4	"	22	"

UNIT:MM

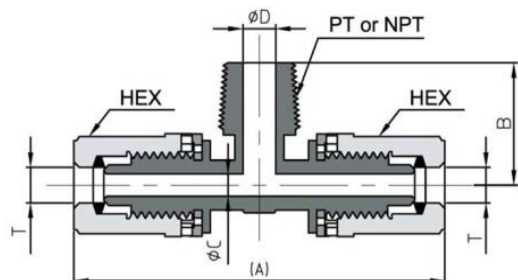
17

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

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"T" indicates the O.D and I.D of applied tube.
"W" indicates the dimension of the Fitting body width.

IMPACT RING TYPE FITTINGS

MBT Male Branch Tee



INCH TYPE

	T	NPT	HEX	(A)	B	ØC	ØD	W
MBT-H2-N1	6.35X3.95	1/8"	16	67.4	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	79.7	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"	"	"	"	"	10	"
MBT-H4-N4	"	1/2"	"	"	30.3	"	12	"
MBT-H6-N4	19.05X15.8	"	32	122	34.8	16	"	27
MBT-H6-N6	"	3/4"	"	"	37.1	"	16	"
MBT-H8-N6	25.4X22.2	"	41	146	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	67.4	18	4	3	10
MBT-M6-R2	"	1/4"	"	"	22	"	6	"
MBT-M6-R3	"	3/8"	"	"	"	"	10	"
MBT-M8-R1	8X6	1/8"	19	79.7	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	122	34.8	16	"	27
MBT-M19-R6	"	3/4"	"	"	37.1	"	16	"
MBT-M25-R6	25X22	"	41	146	42.1	22	"	34
MBT-M25-R8	"	1"	"	"	46.4	"	22	"

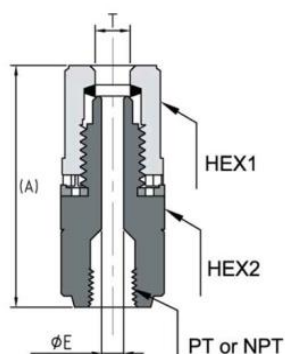
Listed sizes are for reference only.

UNIT:MM

"T" indicates the O.D and I.D of applied tube.

"W" indicates the dimension of the Fitting body width.

FC Female Connector



INCH TYPE

	T	NPT	HEX1	HEX2	(A)	ØE
FC-H2-N1	6.35X3.95	1/8"	16	20	40.2	4
FC-H2-N2	"	1/4"	"	"	43.2	"
FC-H2-N3	"	3/8"	"	23	43.7	"
FC-H3-N2	9.53X6.35	1/4"	19	"	47.4	6.3
FC-H3-N3	"	3/8"	"	"	47.9	"
FC-H3-N4	"	1/2"	"	29	51.9	"
FC-H4-N2	12.7X9.53	1/4"	24	"	54.3	10
FC-H4-N3	"	3/8"	"	"	54.8	"
FC-H4-N4	"	1/2"	"	"	58.8	"
FC-H6-N4	19.05X15.8	"	32	38	66.3	16
FC-H6-N6	"	3/4"	"	"	66.8	"
FC-H8-N6	25.4X22.2	"	41	49	73.8	22
FC-H8-N8	"	1"	"	"	77.8	"

MM TYPE

	T	PT	HEX1	HEX2	(A)	ØE
FC-M6-R1	6X4	1/8"	16	20	40.2	4
FC-M6-R2	"	1/4"	"	"	43.2	"
FC-M6-R3	"	3/8"	"	23	43.7	"
FC-M8-R1	8X6	1/8"	19	"	44.4	6.3
FC-M8-R2	"	1/4"	"	"	47.4	"
FC-M8-R3	"	3/8"	"	"	47.9	"
FC-M10-R2	10X8	1/4"	"	"	47.4	8
FC-M10-R3	"	3/8"	"	"	47.9	"
FC-M10-R4	"	1/2"	"	29	51.9	"
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	66.3	16
FC-M19-R6	"	3/4"	"	"	66.8	"
FC-M25-R6	25X22	"	41	49	73.8	22
FC-M25-R8	"	1"	"	"	77.8	"

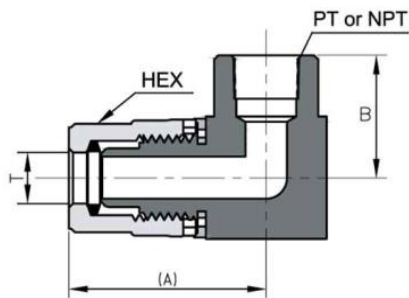
Listed sizes are for reference only.

UNIT:MM

"T" indicates the O.D and I.D of applied tube.

IMPACT RING TYPE FITTINGS

FE Female Elbow



INCH TYPE

	T	NPT	HEX	(A)	B	W
FE-H2-N1	6.35X3.95	1/8"	16	33.2	21	20
FE-H2-N2	"	1/4"	"	34.7	24	23
FE-H2-N3	"	3/8"	"	36.2	24.5	26
FE-H3-N2	9.53X6.35	1/4"	19	38.9	25.5	23
FE-H3-N3	"	3/8"	"	40.4	26	26
FE-H3-N4	"	1/2"	"	43.6	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	59.5	37.5	38
FE-H6-N6	"	3/4"	"	61.5	38	42
FE-H8-N6	25.4X22.2	"	41	72	43.5	49
FE-H8-N8	"	1"	"	74.5	47.5	54

MM TYPE

	T	PT	HEX	(A)	B	W
FE-M6-R1	6X4	1/8"	16	33.2	21	20
FE-M6-R2	"	1/4"	"	34.7	24	23
FE-M6-R3	"	3/8"	"	36.2	24.5	26
FE-M8-R1	8X6	1/8"	19	38.9	21	20
FE-M8-R2	"	1/4"	"	40.4	25.5	23
FE-M8-R3	"	3/8"	"	43.6	26	26
FE-M10-R2	10X8	1/4"	"	38.9	25.5	23
FE-M10-R3	"	3/8"	"	40.4	26	26
FE-M10-R4	"	1/2"	"	43.6	30	32.5
FE-M12-R2	12X10	1/4"	24	47.5	28.5	29
FE-M12-R3	"	3/8"	"	"	29	"
FE-M12-R4	"	1/2"	"	49.3	33	32.5
FE-M19-R4	19X15.8	"	32	59.5	37.5	38
FE-M19-R6	"	3/4"	"	61.5	38	42
FE-M25-R6	25X22	"	41	72	43.5	49
FE-M25-R8	"	1"	"	74.5	47.5	54

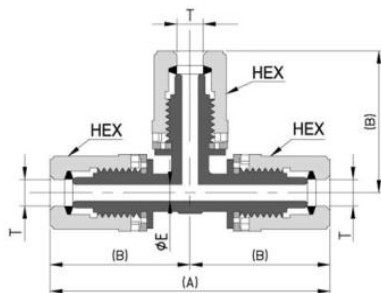
UNIT:MM

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	49.5	24.8	7.6
UT-H2	6.35X3.95	16	4	67.4	33.7	10
UT-H3	9.53X6.35	19	6.3	79.7	39.9	14
UT-H4	12.7X9.53	24	10	97	48.5	18
UT-H6	19.05X15.8	32	16	122	61	27
UT-H8	25.4X22.2	41	22	146	73	34
UT-H10	31.8X28	50	28	191.4	95.7	42
UT-H12	38.1X33.7	60	33.7	215.8	107.9	50

MM TYPE

	T	HEX	ØE	(A)	(B)	W
UT-M3	3X2	11	2	49.5	24.8	7.6
UT-M4	4X3	"	3	"	"	"
UT-M6	6X4	16	4	67.4	33.7	10
UT-M8	8X6	19	6.3	79.7	39.9	14
UT-M10	10X8	"	8	"	"	"
UT-M12	12X10	24	10	97	48.5	18
UT-M19	19X15.8	32	16	122	61	27
UT-M25	25X22	41	22	146	73	34

UNIT:MM

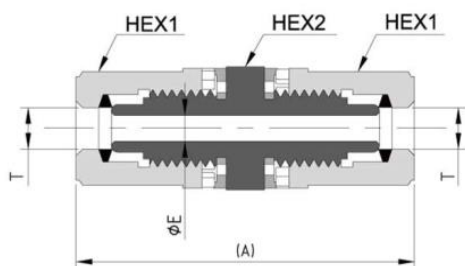
Listed sizes are for reference only.

"T" indicates the O.D and I.D of applied tube.

"W" indicates the dimension of the Fitting body width.

IMPACT RING TYPE FITTINGS

U Union



INCH TYPE

	T	HEX1	HEX2	(A)	ØE
U-H1	3.18X2.18	11	13	40.7	2
U-H2	6.35X3.95	16	20	52.4	4
U-H3	9.53X6.35	19	23	60.7	6.3
U-H4	12.7X9.53	24	29	73.3	10
U-H6	19.05X15.8	32	38	88.3	16
U-H8	25.4X22.2	41	49	102.3	22
U-H10	31.8X28	50	60	139.4	28
U-H12	38.1X33.7	60	70	154.1	33.7

MM TYPE

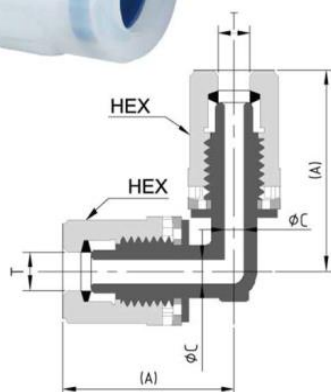
	T	HEX1	HEX2	(A)	ØE
U-M3	3X2	11	13	40.7	2
U-M4	4X3	"	"	"	3
U-M6	6x4	16	20	52.4	4
U-M8	8x6	19	23	60.7	6.3
U-M10	10x8	"	"	"	8
U-M12	12X10	24	29	73.3	10
U-M19	19x15.8	32	38	88.3	16
U-M25	25x22	41	49	102.3	22

UNIT:MM

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

IMPACT RING TYPE FITTINGS

UE Union Elbow



INCH TYPE

	T	HEX	(A)	ØC	W
UE-H1	3.18X2.18	11	24.8	2	7.6
UE-H2	6.35X3.95	16	33.7	4	10
UE-H3	9.53X6.35	19	39.9	6.3	14
UE-H4	12.7X9.53	24	48.5	10	18
UE-H6	19.05X15.8	32	61	16	27
UE-H8	25.4X22.2	41	73	22	34
UE-H10	31.8X28	50	95.7	28	42
UE-H12	38.1X33.7	60	107.9	33.7	50

MM TYPE

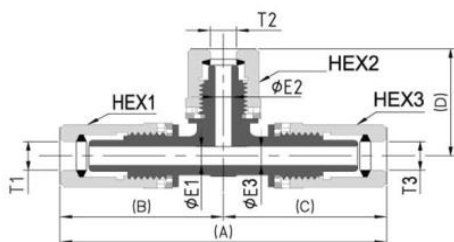
	T	HEX	(A)	ØC	W
UE-M3	3X2	11	24.8	2	7.6
UE-M4	4X3	"	"	3	"
UE-M6	6X4	16	33.7	4	10
UE-M8	8X6	19	39.9	6.3	14
UE-M10	10X8	"	"	8	"
UE-M12	12X10	24	48.5	10	18
UE-M19	19X15.8	32	61	16	27
UE-M25	25X22	41	73	22	34

UNIT:MM

Listed sizes are for reference only.
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"W" indicates the dimension of the Fitting body width.

IMPACT RING TYPE FITTINGS

RUT Reducing Union Tee



INCH TYPE

	T1	T2	T3	HEX1	HEX2	HEX3	ØE1	ØE2	ØE3	(A)	(B)	(C)	(D)	W
RUT-H1-H2-H1	3.18X2.18	6.35X3.95	3.18X2.18	11	16	11	2	4	2	49.5	24.8	24.8	31.2	7.6
RUT-H2-H1-H2	6.35X3.95	3.18X2.18	6.35X3.95	16	11	16	4	2	4	67.4	33.7	33.7	27.3	10
RUT-H2-H3-H2	"	9.53X6.35	"	"	19	"	"	6.3	"	"	"	"	37.9	"
RUT-H3-H2-H2	9.53X6.35	6.35X3.95	"	19	16	"	6.3	4	"	75.6	39.9	35.7	35.7	14
RUT-H3-H2-H3	"	"	9.53X6.35	"	"	19	"	"	6.3	79.7	"	39.9	"	"
RUT-H3-H3-H2	"	9.53X6.35	6.35X3.95	"	19	16	"	6.3	4	75.6	"	35.7	39.9	"
RUT-H3-H4-H3	"	12.7X9.53	9.53X6.35	"	24	19	"	10	6.3	79.7	"	39.9	48	"
RUT-H4-H2-H2	12.7X9.53	6.35X3.95	6.35X3.95	24	16	16	10	4	4	86.7	48.5	38.2	38.2	18
RUT-H4-H2-H4	"	"	12.7X9.53	"	"	24	"	"	10	97	"	48.5	"	"
RUT-H4-H3-H3	"	9.53X6.35	9.53X6.35	"	19	19	"	6.3	6.3	90.9	"	42.4	42.4	"
RUT-H4-H3-H4	"	"	12.7X9.53	"	"	24	10	"	10	97	"	48.5	"	"
RUT-H4-H4-H2	"	12.7X9.53	6.35X3.95	"	24	16	"	10	4	86.7	"	38.2	48.5	"
RUT-H4-H4-H3	"	"	9.53X6.35	"	"	19	"	"	6.3	90.9	"	42.4	"	"
RUT-H4-H6-H4	"	19.05X15.8	12.7X9.53	"	32	24	"	16	10	97	"	48.5	58.5	"
RUT-H6-H2-H6	19.05X15.8	6.35X3.95	19.05X15.8	32	16	32	16	4	16	122	61	61	42.7	27
RUT-H6-H3-H6	"	9.53X6.35	"	"	19	"	"	6.3	"	"	"	"	46.9	"
RUT-H6-H4-H4	"	12.7X9.53	12.7X9.53	"	24	24	"	10	10	114	"	53	53	"
RUT-H6-H4-H6	"	"	19.05X15.8	"	"	32	"	"	16	122	"	61	"	"
RUT-H6-H6-H2	"	19.05X15.8	6.35X3.95	"	32	16	"	16	4	103.7	"	42.7	61	"
RUT-H6-H6-H3	"	"	9.53X6.35	"	"	19	"	"	6.3	107.8	"	46.9	"	"
RUT-H6-H6-H4	"	"	12.7X9.53	"	"	24	"	"	10	114	"	53	"	"
RUT-H6-H8-H6	"	25.4X22.2	19.05X15.8	"	41	32	"	22	16	122	"	61	70	"
RUT-H8-H2-H8	25.4X22.2	6.35X3.95	25.4X22.2	41	16	41	22	4	22	146	73	73	47.7	34
RUT-H8-H3-H8	"	9.53X6.35	"	"	19	"	"	6.3	"	"	"	"	51.9	"
RUT-H8-H4-H8	"	12.7X9.53	"	"	24	"	"	10	"	"	"	"	58	"
RUT-H8-H6-H6	"	19.05X15.8	19.05X15.8	"	32	32	"	16	16	139	"	66	66	"
RUT-H8-H6-H8	"	"	25.4X22.2	"	"	41	"	"	22	146	"	73	"	"
RUT-H8-H8-H4	"	25.4X22.2	12.7X9.53	"	41	24	"	22	10	131	"	58	73	"
RUT-H8-H8-H6	"	"	19.05X15.8	"	"	32	"	"	16	139	"	66	"	"
RUT-H10-H6-H10	31.8X28	19.05X15.8	31.8X28	50	32	50	28	16	28	191.4	95.7	95.7	72	41.6
RUT-H10-H8-H10	"	25.4X22.2	"	"	41	"	"	22	"	"	"	"	79	"
RUT-H12-H6-H12	38.1X33.7	19.05X15.8	38.1X33.7	60	32	60	33.7	16	33.7	215.8	107.9	107.9	76.8	49.6
RUT-H12-H8-H12	"	25.4X22.2	"	"	41	"	"	22	"	"	"	"	83.9	"
RUT-H12-H10-H12	"	31.8X28	"	"	50	"	"	28	"	"	"	"	100.5	"

MM TYPE

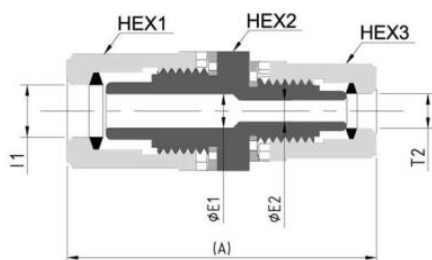
	T1	T2	T3	HEX1	HEX2	HEX3	ØE1	ØE2	ØE3	(A)	(B)	(C)	(D)	W
RUT-M3-M6-M3	3X2	6X4	3X2	11	16	11	2	4	2	49.5	24.8	24.8	31.2	7.6
RUT-M6-M3-M6	6X4	3X2	6X4	16	11	16	4	2	4	67.4	33.7	33.7	27.3	10
RUT-M6-M4-M6	"	4X3	"	"	"	"	"	3	"	"	"	"	"	"
RUT-M6-M8-M6	"	8X6	"	"	19	"	"	6.3	"	"	"	"	37.9	"
RUT-M8-M6-M6	8X6	6X4	"	19	16	"	6.3	4	"	75.6	39.9	35.7	35.7	14
RUT-M8-M6-M8	"	"	8X6	"	"	19	"	"	6.3	79.7	"	39.9	"	"
RUT-M8-M8-M6	"	8X6	6X4	"	19	16	"	6.3	4	75.6	"	35.7	39.9	"
RUT-M8-M12-M8	"	12X10	8X6	"	24	19	"	10	6.3	79.7	"	39.9	48	"
RUT-M10-M6-M10	10X8	6X4	10X8	"	16	"	8	4	8	"	"	"	35.7	"
RUT-M10-M8-M10	"	8X6	"	"	19	"	"	6.3	"	"	"	"	39.9	"
RUT-M12-M6-M6	12X10	6X4	6X4	24	16	16	10	4	4	86.7	48.5	38.2	38.2	18
RUT-M12-M6-M12	"	"	12X10	"	"	24	"	"	10	97	"	48.5	"	"
RUT-M12-M8-M8	"	8X6	8X6	"	19	19	"	6.3	6.3	90.9	"	42.4	42.4	"
RUT-M12-M8-M12	"	"	12X10	"	"	24	"	"	10	97	"	48.5	"	"
RUT-M12-M10-M12	"	10X8	"	"	"	"	"	8	"	"	"	"	"	"
RUT-M12-M12-M6	"	12X10	6X4	"	24	16	"	10	4	86.7	"	38.2	48.5	"
RUT-M12-M12-M8	"	"	8X6	"	"	19	"	"	6.3	90.9	"	42.4	"	"
RUT-M12-M19-M12	"	19X15.8	12X10	"	32	24	"	16	10	97	"	48.5	58.5	"
RUT-M19-M6-M19	19X15.8	6X4	19X15.8	32	16	32	16	4	16	122	61	61	42.7	27
RUT-M19-M10-M19	"	10X8	"	"	19	"	"	8	"	"	"	"	46.9	"
RUT-M19-M12-M12	"	12X10	12X10	"	24	24	"	10	10	114	"	53	53	"
RUT-M19-M12-M19	"	"	19X15.8	"	"	32	"	"	16	122	"	61	"	"
RUT-M19-M19-M6	"	19X15.8	6X4	"	32	16	"	16	4	103.7	"	42.7	61	"
RUT-M19-M19-M8	"	"	8X6	"	"	19	"	"	6.3	107.8	"	46.9	"	"
RUT-M19-M19-M10	"	"	10X8	"	"	"	"	"	8	"	"	"	"	"
RUT-M19-M19-M12	"	"	12X10	"	"	24	"	"	10	114	"	53	"	"
RUT-M19-M25-M19	"	25X22	19X15.8	"	41	32	"	22	16	122	"	61	70	"
RUT-M25-M6-M25	25X22	6X4	25X22	41	16	41	22	4	22	146	73	73	47.7	34
RUT-M25-M8-M25	"	8X6	"	"	19	"	"	6.3	"	"	"	"	51.9	"
RUT-M25-M12-M25	"	12X10	"	"	24	"	"	10	"	"	"	"	58	"
RUT-M25-M19-M19	"	19X15.8	19X15.8	"	32	32	"	16	16	139	"	66	66	"
RUT-M25-M19-M25	"	"	25X22	"	"	41	"	"	22	146	"	73	"	"
RUT-M25-M25-M12	"	25X22	12X10	"	41	24	"	22	10	131	"	58	73	"
RUT-M25-M25-M19	"	"	19X15.8	"	"	32	"	"	16	139	"	66	"	"

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.

IMPACT RING TYPE FITTINGS

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	46.5	4	2
RU-H3-H2	9.53X6.35	6.35X3.95	19	23	16	56.6	6.3	4
RU-H4-H2	12.7X9.53	"	24	29	"	63.5	10	"
RU-H4-H3	"	9.53X6.35	"	"	19	67.7	"	6.3
RU-H6-H2	19.05X15.8	6.35X3.95	32	38	16	71	16	4
RU-H6-H3	"	9.53X6.35	"	"	19	75.1	"	6.3
RU-H6-H4	"	12.7X9.53	"	"	24	80.8	"	10
RU-H8-H4	25.4X22.2	"	41	49	"	87.8	22	"
RU-H8-H6	"	19.05X15.8	"	"	32	95.3	"	16
RU-H10-H6	31.8X28	"	50	60	"	116.2	28	"
RU-H10-H8	"	25.4X22.2	"	"	41	123.2	"	22
RU-H12-H6	38.1X33.7	19.05X15.8	60	70	32	123.5	33.7	16
RU-H12-H8	"	25.4X22.2	"	"	41	130.5	"	22
RU-H12-H10	"	31.8X28	"	"	50	146.7	"	28

MM TYPE

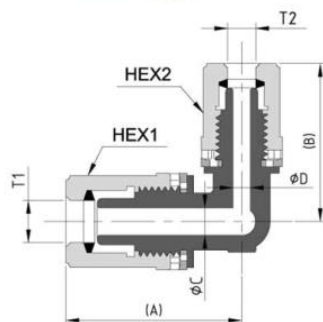
	T1	T2	HEX1	HEX2	HEX3	(A)	ØE1	ØE2
RU-M6-M3	6x4	3x2	16	20	11	46.5	4	2
RU-M6-M4	"	4x3	"	"	"	"	"	3
RU-M8-M6	8x6	6x4	19	23	16	56.6	6.3	4
RU-M10-M6	10x8	"	"	"	"	"	8	"
RU-M10-M8	"	8x6	"	"	19	60.7	"	6.3
RU-M12-M6	12x10	6x4	24	29	16	63.5	10	4
RU-M12-M8	"	8x6	"	"	19	67.7	"	6.3
RU-M12-M10	"	10x8	"	"	"	"	"	8
RU-M19-M6	19x15.8	6x4	32	38	16	71	16	4
RU-M19-M10	"	10x8	"	"	19	75.1	"	8
RU-M19-M12	"	12x10	"	"	24	80.8	"	10
RU-M25-M12	25x22	"	41	49	"	87.8	22	"
RU-M25-M19	"	19x15.8	"	"	32	95.3	"	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	33.7	27.3	4	2	10
RUE-H3-H2	9.53X6.35	6.35X3.95	19	16	39.9	35.7	6.3	4	14
RUE-H4-H2	12.7X9.53	"	24	"	48.5	38.2	10	"	18
RUE-H4-H3	"	9.53X6.35	"	19	"	42.4	"	6.3	"
RUE-H6-H3	19.05X15.8	"	32	"	61	46.9	16	"	27
RUE-H6-H4	"	12.7X9.53	"	24	"	53	"	10	"
RUE-H8-H4	25.4X22.2	"	41	"	73	58	22	"	34
RUE-H8-H6	"	19.05X15.8	"	32	"	66	"	16	"
RUE-H10-H6	31.8X28	"	50	"	95.7	72	28	"	42
RUE-H10-H8	"	25.4X22.2	"	41	"	79	"	22	"
RUE-H12-H6	38.1X33.7	19.05X15.8	60	32	107.9	76.8	33.7	16	50
RUE-H12-H8	"	25.4X22.2	"	41	"	83.9	"	22	"
RUE-H12-H10	"	31.8X28	"	50	"	100.5	"	28	"

MM TYPE

	T1	T2	HEX1	HEX2	(A)	(B)	ØC	ØD	W
RUE-M6-M3	6x4	3x2	16	11	33.7	27.3	4	2	10
RUE-M6-M4	"	4x3	"	"	"	"	"	3	"
RUE-M8-M6	8x6	6x4	19	16	39.9	35.7	6.3	4	14
RUE-M10-M6	10x8	"	"	"	"	"	8	"	"
RUE-M10-M8	"	8x6	"	19	"	39.9	"	6.3	"
RUE-M12-M6	12x10	6x4	24	16	48.5	38.2	10	4	18
RUE-M12-M8	"	8x6	"	19	"	42.4	"	6.3	"
RUE-M12-M10	"	10x8	"	"	"	"	"	8	"
RUE-M19-M10	19x15.8	"	32	"	61	46.9	16	"	27
RUE-M19-M12	"	12x10	"	24	"	53	"	10	"
RUE-M25-M12	25x22	"	41	"	73	58	22	"	34
RUE-M25-M19	"	19x15.8	"	32	"	66	"	16	"

UNIT:MM

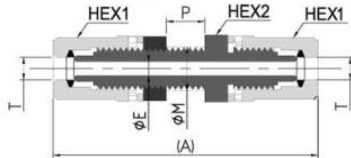
Listed sizes are for reference only.

"T1" and "T2" indicates the O.D and I.D of applied tube.

"W" indicates the dimension of the Fitting body width.

IMPACT RING TYPE FITTINGS

PMU Panel Mount Union



INCH TYPE

	T	ØM	P	HEX1	HEX2	(A)	ØE
PMU-H1	3.18X2.18	8.5	10	11	13	55.5	2
PMU-H2	6.35X3.95	12.5	"	16	20	68.4	4
PMU-H3	9.53X6.35	18.5	"	19	23	76.7	6.3
PMU-H4	12.7X9.53	22.5	"	24	29	90.6	10
PMU-H6	19.05X15.8	31	"	32	38	105.6	16
PMU-H8	25.4X22.2	41	"	41	49	119.6	22

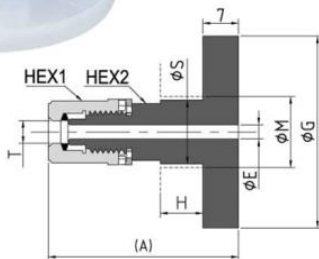
MM TYPE

	T	ØM	P	HEX1	HEX2	(A)	ØE
PMU-M3	3X2	8.5	10	11	13	55.5	2
PMU-M4	4X3	"	"	"	"	"	3
PMU-M6	6X4	12.5	"	16	20	68.4	4
PMU-M8	8X6	18.5	"	19	23	76.7	6.3
PMU-M10	10X8	"	"	"	"	"	8
PMU-M12	12X10	22.5	"	24	29	90.6	10
PMU-M19	19X15.8	31	"	32	38	105.6	16
PMU-M25	25X22	41	"	41	49	119.6	22

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.

UNIT:MM

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	50.2	4	54	22	23
UF-H3-15/20A	9.53X6.35	"	19	23	"	54.4	6.3	"	25	26
UF-H3-25/32A	"	10K-25/32A	"	"	"	"	"	70	"	"
UF-H4-15/20A	12.7X9.53	10K-15/20A	24	29	"	61.3	10	54	31.5	32.5
UF-H4-25/32A	"	10K-25/32A	"	"	"	"	"	70	"	"
UF-H6-15/20A	19.05X15.8	10K-15/20A	32	38	16	70.8	16	54	41	42
UF-H6-25/32A	"	10K-25/32A	"	"	"	"	"	70	"	"
UF-H8-25/32A	25.4X22.2	10K-25/32A	41	49	"	77.8	22	"	53	54
UF-H10-40/50A	31.8X28	10K-40/50A	50	60	"	101.7	28	85	65	66
UF-H12-40/50A	38.1X33.7	"	60	64	"	109	33.7	"	68	69

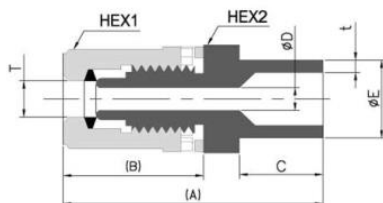
MM TYPE

	T	Flange	HEX1	HEX2	H	(A)	ØE	ØG	ØS	ØM
UF-M6-15/20A	6X4	10K-15/20A	16	20	14	50.2	4	54	22	23
UF-M8-15/20A	8X6	10K-15/20A	19	23	"	54.4	6.3	"	25	26
UF-M8-25/32A	"	10K-25/32A	"	"	"	"	"	70	"	"
UF-M10-15/20A	10X8	10K-15/20A	"	"	"	"	8	54	"	"
UF-M10-25/32A	"	10K-25/32A	"	"	"	"	"	70	"	"
UF-M12-15/20A	12X10	10K-15/20A	24	29	"	61.3	10	54	31.5	32.5
UF-M12-25/32A	"	10K-25/32A	"	"	"	"	"	70	"	"
UF-M19-15/20A	19X15.8	10K-15/20A	32	38	16	70.8	16	54	41	42
UF-M19-25/32A	"	10K-25/32A	"	"	"	"	"	70	"	"
UF-M25-25/32A	25X22	10K-25/32A	41	49	"	77.8	22	"	53	54

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

UNIT:MM

UA (Pipe welding type) UNION ADAPTOR



INCH TYPE

	T	HEX1	HEX2	(A)	(B)	C	ØD	ØE	t
UA-H2-B2	6.35X3.95	16	20	43.2	23.2	14	4	13.7	2.2
UA-H2-B4	"	"	"	68.2	"	39	"	21.3	2.8
UA-H3-B2	9.53X6.35	19	23	47.4	27.4	14	6.3	13.7	2.2
UA-H3-B4	"	"	"	72.4	"	39	"	21.3	2.8
UA-H3-B6	"	"	"	"	"	"	"	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	86.8	40.5	"	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	93.8	47.5	"	22	26.7	2.9
UA-H8-B8	"	"	"	"	"	"	"	33.4	3.4

MM TYPE

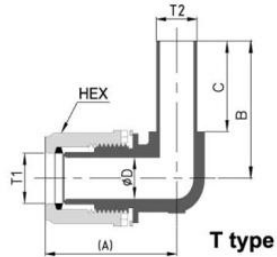
	T	HEX1	HEX2	(A)	(B)	C	ØD	ØE	t
UA-M6-B2	6X4	16	20	43.2	23.2	14	4	13.7	2.2
UA-M6-B4	"	"	"	68.2	"	39	"	21.3	2.8
UA-M10-B2	10X8	19	23	47.4	27.4	14	8	13.7	2.2
UA-M10-B4	"	"	"	72.4	"	39	"	21.3	2.9
UA-M10-B6	"	"	"	"	"	"	"	26.7	2.8
UA-M12-B2	12X10	24	29	54.3	33	14	10	13.7	2.2
UA-M12-B4	"	"	"	79.3	"	39	"	21.3	2.8
UA-M12-B6	"	"	"	"	"	"	"	26.7	2.9
UA-M12-B8	"	"	"	"	"	"	"	33.4	3.4
UA-M19-B4	19X15.8	32	38	86.8	40.5	"	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	93.8	47.5	"	22	26.7	2.9
UA-M25-B8	"	"	"	"	"	"	"	33.4	3.4

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

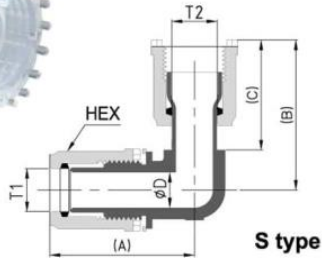
UNIT:MM

IMPACT RING TYPE FITTINGS

UEA Union Elbow Adapter (S type)



T type



S type

INCH TYPE (T type)

	T1	T2	HEX	(A)	B	C	ØD	W
UEA-H2-TH2	6.35X3.95	6.35X3.95	16	33.7	26	17	4	10
UEA-H3-TH3	9.53X6.35	9.53X6.35	19	39.9	32	21	6.3	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	49	31	16	27
UEA-H8-TH8	25.4X22.2	25.4X22.2	41	73	61	38	22	34

MM TYPE

	T1	T2	HEX	(A)	B	C	ØD	W
UEA-M6-TH2	6X4	6.35X3.95	16	33.7	26	17	4	10
UEA-M8-TH3	8X6	9.53X6.35	19	39.9	32	21	6.3	14
UEA-M10-TH3	10X8	"	"	"	"	"	8	"
UEA-M12-TH4	12X10	12.7X9.5	24	48.5	38.5	25	10	18
UEA-M19-TH6	19X15.8	19X15.8	32	61	49	31	16	27
UEA-M25-TH8	25X22	25.4X22.2	41	73	61	38	22	34

UNIT:MM

Listed sizes are for reference only.

"T1" indicates the O.D and I.D of applied tube.

INCH TYPE (S type)

	T1	T2	HEX	(A)	(B)	(C)	ØD	W
UEA-H2-TH2S	6.35X3.95	M6×H2	16	33.7	37.4	28.4	4	10
UEA-H3-TH3S	9.53X6.35	M8×H3	19	39.9	42.2	31.2	6.3	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	65	47	16	27
UEA-H8-TH8S	25.4X22.2	M25×H8	41	73	83.7	60.7	22	34

MM TYPE

	T1	T2	HEX	(A)	(B)	(C)	ØD	W
UEA-M6-TH2S	6X4	M6×H2	16	33.7	37.4	28.4	4	10
UEA-M8-TH3S	8X6	M8×H3	19	39.9	42.2	31.2	6.3	14
UEA-M10-TH3S	10X8	"	"	"	"	"	8	"
UEA-M12-TH4S	12X10	M12×H4	24	48.5	52.5	39	10	18
UEA-M19-TH6S	19X15.8	M19×H6	32	61	65	47	16	27
UEA-M25-TH8S	25X22	M25×H8	41	73	83.7	60.7	22	34

UNIT:MM

Listed sizes are for reference only.

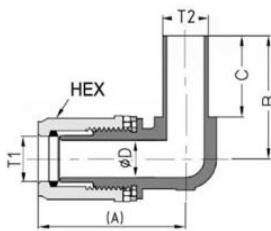
"T1" indicates the O.D and I.D of applied tube.

"T2" indicates the size (Code) of applied Fitting body.

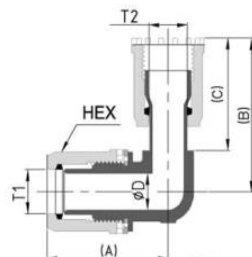
"W" indicates the dimension of the Fitting body width.

Due to flare design, the dimensions of "B" and "C" are for reference only.

RUEA REDUCING UNION ADAPTOR (S type)



T type



S type

INCH TYPE (T type)

	T1	T2	HEX	(A)	B	C	ØD	W
RUEA-H2-TH4	6.35X3.95	12.7X9.53	16	38.2	38.5	25	4	18
RUEA-H6-TH8	19.05X15.8	25.4X22.2	32	66	61	38	16	34
RUEA-H8-TH6	25.4X22.2	19.05X15.8	41	73	54	31	22	"

MM TYPE

	T1	T2	HEX	(A)	B	C	ØD	W
RUEA-M6-TH4	6X4	12.7X9.53	16	38.2	38.5	25	4	18
RUEA-M19-TH8	19X15.8	25.4X22.2	32	66	61	38	16	34
RUEA-M25-TH6	25X22	19.05X15.8	41	73	54	31	22	"

INCH TYPE (S type)

	T1	T2	HEX	(A)	(B)	(C)	ØD	W
RUEA-H2-TH4S	6.35X3.95	M12×H4	16	38.2	52.5	39	4	18
RUEA-H6-TH8S	19.05X15.8	M25×H8	32	66	83.7	60.7	16	34
RUEA-H8-TH6S	25.4X22.2	M19×H6	41	73	70	47	22	"

MM TYPE

	T1	T2	HEX	(A)	(B)	(C)	ØD	W
RUEA-M6-TH4S	6X4	M12×H4	16	38.2	52.5	39	4	18
RUEA-M19-TH8S	19X15.8	M25×H8	32	66	83.7	60.7	16	34
RUEA-M25-TH6S	25X22	M19×H6	41	73	70	47	22	"

UNIT:MM

Listed sizes are for reference only.

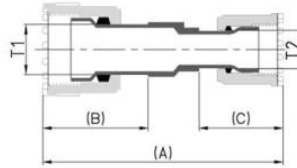
"T1" & "T2" indicates the O.D and I.D of applied tube.

IMPACT RING TYPE FITTINGS

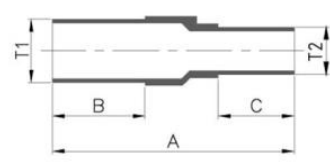
RA REDUCING ADAPTOR



Flare type



Weld type



INCH TYPE (Flare type)

	T1	T2	(A)	(B)	(C)
RA-TH10S-TH6S	H10	M19,H6	152.5	75.4	47
RA-TH10S-TH8S	"	M25,H8	166.2	"	60.7
RA-TH12S-TH6S	H12	M19,H6	164.5	87.4	47
RA-TH12S-TH8S	"	M25,H8	178.2	"	60.7
RA-TH12S-TH10S	"	H10	192.9	"	75.4

INCH TYPE (Weld 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

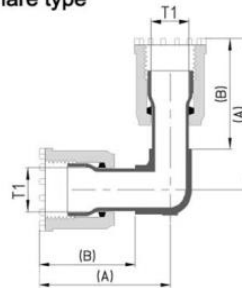
Listed sizes are for reference only.

"T1" & "T2" indicates the O.D and I.D of applied tube.

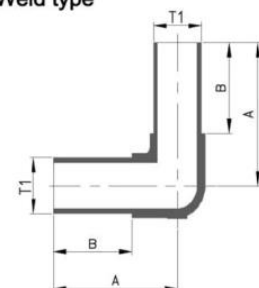
EA ELBOW ADAPTOR



Flare type



Weld type



INCH TYPE (Flare type)

	T1	(A)	(B)	W
EA-TH6S	M19,H6	65	47	23
EA-TH8S	M25,H8	83.7	60.7	29
EA-TH10S	H10	104.4	75.4	36.6
EA-TH12S	H12	121.3	87.5	42.6

INCH TYPE (Weld 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	91.9	58	42.6

UNIT:MM

Listed sizes are for reference only.

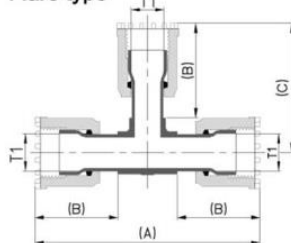
"T1" indicates the O.D and I.D of applied tube.

"W" indicates the dimension of the Fitting body width.

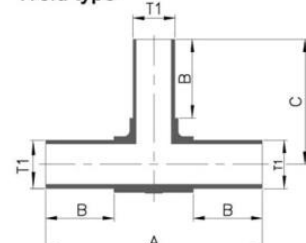
TA TEE ADAPTOR



Flare type



Weld type



INCH TYPE (Flare type)

	T1	(A)	(B)	(C)	W
TA-TH6S	M19,H6	130	47	65	23
TA-TH8S	M25,H8	167.4	60.7	83.7	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 (Weld 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.

IMPACT RING TYPE FITTINGS

RTA REDUCING TEE ADAPTOR



INCH TYPE (Flare type)

	T1	T2	(A)	(B)	(C)	(D)	W
RTA-TH8S-TH6S-TH8S	M25,H8	M19,H6	167.4	60.7	47	70	29
RTA-TH10S-TH8S-TH10S	H10	M25,H8	208.8	75.4	60.7	89.7	36.6

INCH TYPE (Weld type)

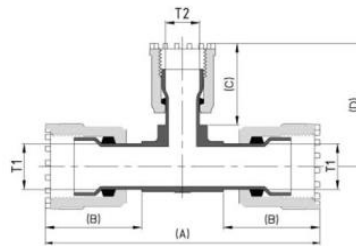
	T1	T2	A	B	C	D	W
RTA-TH8-TH6-TH8	25.4X22.2	19.05X15.8	122	38	31	54	29
RTA-TH10-TH8-TH10	31.8X28	25.4X22.2	158	50	38	67	36.6

UNIT:MM

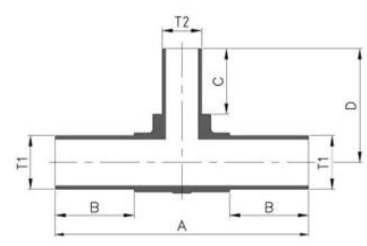
Listed sizes are for reference only.

T1 and T2 indicates the O.D and I.D of applied tube.

"W" indicates the dimension of the Fitting body width.



Flare type



Weld type

RUTA REDUCING UNION TEE ADAPTOR



INCH TYPE (T 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	80.9	42.4	38.5	25	48.3
RUTA-H3-H2-TH3	9.53X6.35	6.35X3.95	9.53X6.35	19	16	71.9	39.9	32	21	35.7

MM TYPE

	T1	T2	T3	HEX1	HEX2	(A)	(B)	(C)	(D)	(E)
RUTA-M8-M12-TH4	8x6	12x10	12.7X9.53	19	24	80.9	42.4	38.5	25	48.5
RUTA-M8-M6-TH3	8x6	6x4	9.53X6.35	19	16	71.9	39.9	32	21	35.7

UNIT:MM

INCH TYPE (S 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	94.9	42.4	52.5	48.5
RUTA-H3-H2-TH3S	9.53X6.35	6.35X3.95	M8,H3	19	16	19	82.1	39.9	42.2	35.7

MM TYPE

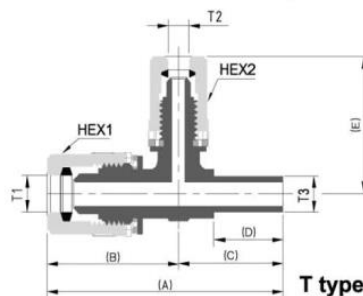
	T1	T2	T3	HEX1	HEX2	HEX3	(A)	(B)	(C)	(D)
RUTA-M8-M12-TH4S	8x6	12x10	M12,H4	19	24	24	94.9	42.4	52.5	48.5
RUTA-M8-M6-TH3S	8x6	6x4	M8,H3	19	16	19	82.1	39.9	42.2	35.7

UNIT:MM

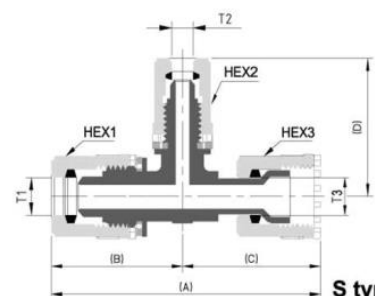
Listed sizes are for reference only.

T1, T2 and T3 indicates the O.D and I.D of applied tube.

Customized product accepted.



T type

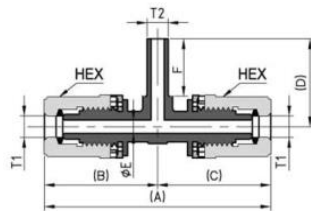


S type

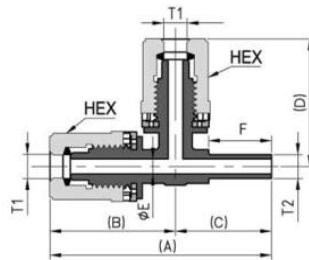
IMPACT RING TYPE FITTINGS

UTA (T type) UNION TEE ADAPTOR

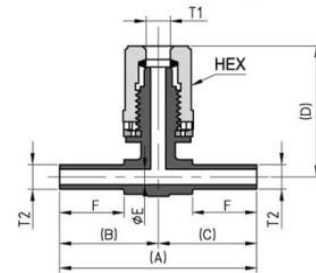
A Type



B Type



C Type



IMPACT RING TYPE FITTINGS

INCH TYPE

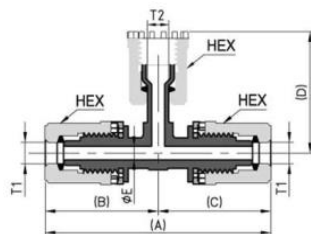
	Type	T1	T2	HEX	(A)	(B)	(C)	(D)	ØE	F	w
UTA-H2-TH2-H2	A	6.35X3.95	6.35X3.95	16	67.4	33.7	33.7	26	4	17	10
UTA-TH2-H2-TH2	C	"	"	"	52	26	26	33.7	"	"	"
UTA-H3-TH3-H3	A	9.53X6.35	9.53X6.35	19	79.7	39.9	39.9	32	6.3	21	14
UTA-H6-TH6-H6	A	19.05X15.8	19.05X15.8	32	122	61	61	49	16	31	27
UTA-H6-H6-TH6	B	"	"	"	110	"	49	61	"	"	"
UTA-H4-TH4-H4	A	12.7X9.53	12.7X9.53	74	97	48.5	48.5	38.5	10	25	18

MM TYPE

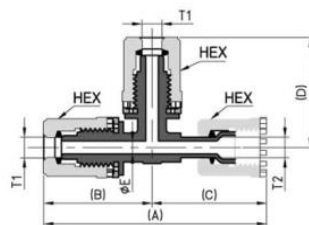
	Type	T1	T2	HEX	(A)	(B)	(C)	(D)	ØE	F	w
UTA-M6-TH2-M6	A	6X4	6.35X3.95	16	67.4	33.7	33.7	26	4	17	10
UTA-TH2-M6-TH2	C	"	"	"	52	26	26	33.7	"	"	"
UTA-M8-TH3-M8	A	8X6	9.53X6.35	19	79.7	39.9	39.9	32	6.3	21	14
UTA-M19-TH6-M19	A	19X15.8	19.05X15.8	32	122	61	61	49	16	31	27
UTA-M19-M19-TH6	B	"	"	"	110	"	49	61	"	"	"
UTA-M12-TH4-M12	A	12X10	12.7X9.53	24	97	48.5	48.5	38.5	10	25	18

UTA (S type) UNION TEE ADAPTOR

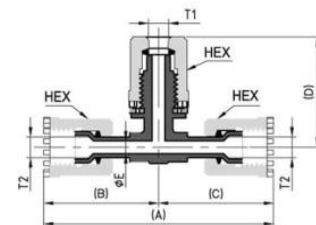
A Type



B Type



C Type



INCH TYPE

	Type	T1	T2	HEX	(A)	(B)	(C)	(D)	ØE	w
UTA-H2-TH2S-H2	A	6.35X3.95	M6,H2	16	67.4	33.7	33.7	37.4	4	10
UTA-TH2S-H2-TH2S	C	"	"	"	74.8	37.4	37.4	33.7	"	"
UTA-H3-TH3S-H3	A	9.53X6.35	M8,H3	19	79.7	39.9	39.9	42.2	6.3	14
UTA-H6-TH6S-H6	A	19.05X15.8	M19,H6	32	122	61	61	65	16	27
UTA-H6-H6-TH6S	B	"	"	"	126	"	65	61	"	"
UTA-H4-TH4S-H4	A	12.7X9.53	M12,H4	24	97	48.5	48.5	52.5	10	18

MM TYPE

	Type	T1	T2	HEX	(A)	(B)	(C)	(D)	ØE	w
UTA-M6-TH2S-M6	A	6X4	M6,H2	16	67.4	33.7	33.7	37.4	4	10
UTA-TH2S-M6-TH2S	C	"	"	"	74.8	37.4	37.4	33.7	"	"
UTA-M8-TH3S-M8	A	8X6	M8,H3	19	79.7	39.9	39.9	42.2	6.3	14
UTA-M19-TH6S-M19	A	19X15.8	M19,H6	32	122	61	61	65	16	27
UTA-M19-M19-TH6S	B	"	"	"	126	"	65	61	"	"
UTA-M12-TH4S-M12	A	12X10	M12,H4	24	97	48.5	48.5	52.5	10	18

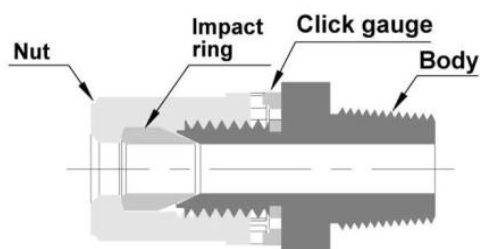
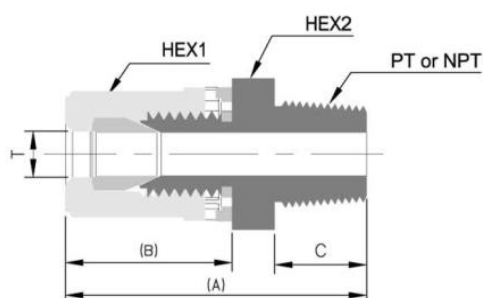
IMPACT RING TYPE FITTINGS

MCT MALE CONNECTOR THROUGH



INCH+NPT TYPE

	T	NPT	HEX1	HEX2	(A)	(B)	C
MCT-H1-N1	3.18X2.18	1/8"	11	13	32.3	17.3	9
MCT-H2-N1	6.35X3.95	"	16	20	38.2	23.2	"
MCT-H2-N2	"	1/4"	"	"	42.2	"	13
MCT-H2-N3	"	3/8"	"	"	"	"	"
MCT-H3-N3	9.53X6.35	"	19	23	46.4	27.4	"
MCT-H3-N4	"	1/2"	"	"	50.2	"	16.8
MCT-H4-N4	12.7X9.53	"	24	29	57.1	33	"
MCT-H4-N6	"	3/4"	"	"	57.4	"	17.1
MCT-H6-N6	19.05X15.8	"	32	38	64.9	40.5	"
MCT-H6-N8	"	1"	"	"	69.2	"	21.4
MCT-H8-N8	25.4X22.2	"	41	49	76.2	47.5	"



MM+PT TYPE

	T	PT	HEX1	HEX2	(A)	(B)	C
MCT-M3-R1	3X2	1/8"	11	13	32.3	17.3	9
MCT-M4-R1	4X3	"	"	"	"	"	"
MCT-M4-R2	"	1/4"	"	"	36.3	"	13
MCT-M6-R1	6X4	1/8"	16	20	38.2	23.2	9
MCT-M6-R2	"	1/4"	"	"	42.2	"	13
MCT-M6-R3	"	3/8"	"	"	"	"	"
MCT-M8-R2	8X6	1/4"	19	23	46.4	27.4	13
MCT-M8-R3	"	3/8"	"	"	"	"	"
MCT-M8-R4	"	1/2"	"	"	50.2	"	16.8
MCT-M10-R3	10x8	3/8"	"	"	46.4	"	13
MCT-M10-R4	"	1/2"	"	"	50.2	"	16.8
MCT-M12-R4	12x10	"	24	29	57.1	33	"
MCT-M12-R6	"	3/4"	"	"	57.4	"	17.1
MCT-M19-R6	19X15.8	"	32	38	64.9	40.5	"
MCT-M19-R8	"	1"	"	"	69.2	"	21.4
MCT-M25-R8	25X22	"	41	49	76.2	47.5	"

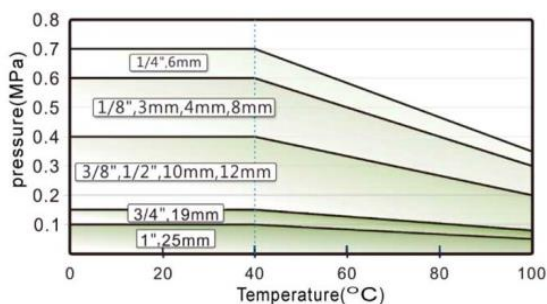
INCH+PT TYPE

	T	PT	HEX1	HEX2	(A)	(B)	C
MCT-H1-R1	3.18X2.18	1/8"	11	13	32.3	17.3	9
MCT-H2-R1	6.35X3.95	"	16	20	38.2	23.2	"
MCT-H2-R2	"	1/4"	"	"	42.2	"	13
MCT-H2-R3	"	3/8"	"	"	"	"	"
MCT-H3-R3	9.53X6.35	"	19	23	46.4	27.4	"
MCT-H3-R4	"	1/2"	"	"	50.2	"	16.8
MCT-H4-R4	12.7X9.53	"	24	29	57.1	33	"
MCT-H4-R6	"	3/4"	"	"	57.4	"	17.1
MCT-H6-R6	19.05X15.8	"	32	38	64.9	40.5	"
MCT-H6-R8	"	1"	"	"	69.2	"	21.4
MCT-H8-R8	25.4X22.2	"	41	49	76.2	47.5	"

UNT:MM

Listed sizes are for reference only.

"T" indicates the O.D and I.D of applied tube.



Assembly method

- ① Insert tube into the nut, then impact ring and body in order.
- ② It is assembled complete when protrudent jaw of nut touches click gauge or fasten sound is heard .

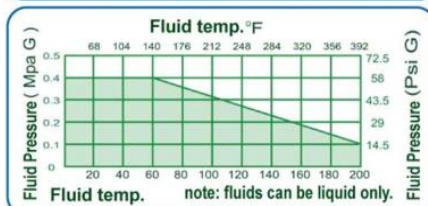
FIT-ONE FITTING FOR QUARTZ TUBE

FIT-ONE FITTING for QUARTZ TUBE

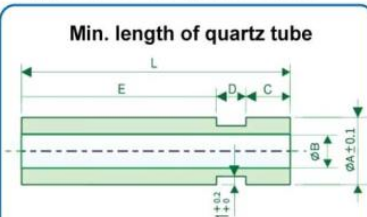


Function Chart

Temp.	°C	0~60	61~100	100~200
Pressure	MpaG	0.4	0.2	0.1



Applicable to quartz tube



Cross Sectioned Drawing

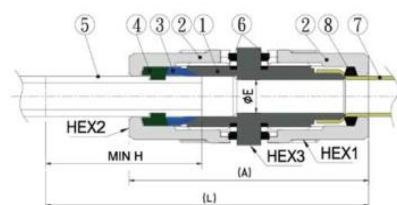
NO.	ITEM	Material
1	Body	PFA
2	Nut	PFA
3	Ferrule	PTFE
4	Stopper	PFA
5	Quartz Glass Tube	Quartz
6	Click Gauge	ETFE
7	PFA Tube	PFA
8	Compression Ring	PVDE/PPS

quartz tube size	φA	φB	C	D	E	L
φ8xφ4	8	4	6	4	31	41
φ10xφ6	10	6	9	4.5	26.5	40
φ12xφ8	12	8	11	5	32.6	48.6
φ16xφ12	16	12	13	6	42.4	61.4
φ19xφ15	19	15	13.5	6.5	41.6	61.6
φ20xφ16	20	16	13.5	6.5	42.5	62.5
φ25xφ20	25	20	23	8	43.75	74.75

INCH TYPE

	quartz tube O.D.	I.D.	PFA tube O.D.	I.D.	HEX1	HEX2	HEX3	(L)	(A)	H	φE
RU-QM8-H3	8	4	9.53	6.35	19	19	23	83	60.7	41	6.3
RU-QM12-H4	12	8	12.7	9.53	24	24	29	99.9	73.3	48.6	10
RU-QM16-H6	16	12	19.05	15.8	32	32	38	122.7	88.3	61.4	16
RU-QM19-H6	19	15	19.05	15.8	"	"	"	122.9	"	61.6	"
RU-QM20-H6	20	16	19.05	15.8	"	"	"	122.8	"	62.5	"
RU-QM25-H8	25	20	25.4	22.2	41	41	49	142.3	102.3	74.8	22

RU-Q



MM TYPE

	quartz tube O.D.	I.D.	PFA tube O.D.	I.D.	HEX1	HEX2	HEX3	(L)	(A)	H	φE
RU-QM8-M8	8	4	8	6	19	19	23	83	60.7	41	6.3
RU-QM10-M10	10	6	10	8	"	"	"	82.5	"	40	8
RU-QM12-M12	12	8	12	10	24	24	29	99.9	73.3	48.6	10
RU-QM16-M19	16	12	19	15.8	32	32	38	122.7	88.3	61.4	16
RU-QM19-M19	19	15	19	15.8	"	"	"	122.9	"	61.6	"
RU-QM20-M19	20	16	19	15.8	"	"	"	122.8	"	62.5	"
RU-QM25-M25	25	20	25	22	41	41	49	142.3	102.3	74.8	22

UNIT:MM

INCH TYPE

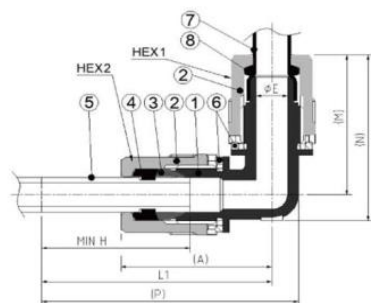
	quartz tube O.D.	I.D.	PFA tube O.D.	I.D.	HEX1	HEX2	(P)	(A)	H	L1	(M)	(N)	φE
RUE-QM8-H3	8	4	9.53	6.35	19	19	68.9	39.9	41	61.9	39.9	46.9	6.3
RUE-QM12-H4	12	8	12.7	9.53	24	24	84.1	48.5	48.6	75.1	48.5	57.5	10
RUE-QM16-H6	16	12	19.05	15.8	32	32	107.4	61	61.4	94.4	61	74.5	16
RUE-QM19-H6	19	15	19.05	15.8	"	"	107.6	"	61.6	94.6	"	"	"
RUE-QM20-H6	20	16	19.05	15.8	"	"	108.5	"	62.5	95	"	"	"
RUE-QM25-H8	25	20	25.4	22.2	41	41	129.5	73	74.8	112.5	73	90	22

MM TYPE

	quartz tube O.D.	I.D.	PFA tube O.D.	I.D.	HEX1	HEX2	(P)	(A)	H	L1	(M)	(N)	φE
RUE-QM8-M8	8	4	8	6	19	19	68.9	39.9	41	61.9	39.9	46.9	6.3
RUE-QM10-M10	10	6	10	8	"	"	"	"	40	"	"	"	8
RUE-QM12-M12	12	8	12	10	24	24	84.1	48.5	48.6	75.1	48.5	57.5	10
RUE-QM16-M19	16	12	19	15.8	32	32	107.4	61	61.4	94.4	61	74.5	16
RUE-QM19-M19	19	15	19	15.8	"	"	107.6	"	61.6	94.6	"	"	"
RUE-QM20-M19	20	16	19	15.8	"	"	108.52	"	62.5	95	"	"	"
RUE-QM25-M25	25	20	25	22	41	41	129.5	73	74.8	112.5	73	90	22

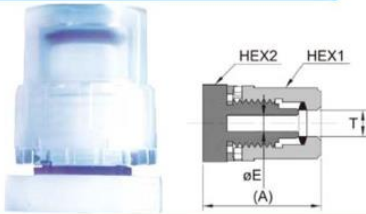
UNIT:MM

RUE-Q



IMPACT RING TYPE FITTINGS

CP Cap



INCH TYPE

	T	HEX1	HEX2	(A)	øE
CP-H2	6.35X3.95	16	20	29.2	4
CP-H3	9.53X6.35	19	23	33.4	6.3
CP-H4	12.7X9.53	24	29	40.3	10
CP-H6	19.05X15.8	32	38	47.8	16
CP-H8	25.4X22.2	41	49	54.8	22
CP-H10	31.8X28	50	60	75.7	28
CP-H12	38.1X33.7	60	70	83	33.7

MM TYPE

	T	HEX1	HEX2	(A)	øE
CP-M6	6X4	16	20	29.2	4
CP-M8	8X6	19	23	33.4	6.3
CP-M10	10X8	"	"	"	8
CP-M12	12X10	24	29	40.3	10
CP-M19	19X15.8	32	38	47.8	16
CP-M25	25X22	41	49	54.8	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	"
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-H2X10	6.35X3.95	21.7	16
UN-H3X10	9.53X6.35	25.9	19
UN-H4X10	12.7X9.53	31	24
UN-H6X10	19.05X15.8	38.5	32
UN-H8X5	25.4X22.2	45.5	41
UN-H10	31.8X28	60.7	50
UN-H12	38.1X33.7	68	60

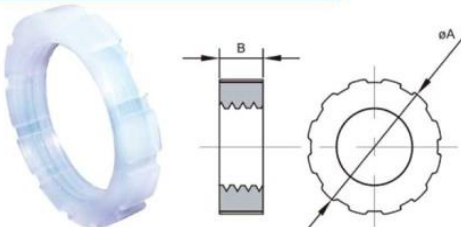
MM TYPE

	T	A	HEX
UN-M3X10	3X2	16.3	11
UN-M4X10	4X3	"	"
UN-M6X10	6X4	21.7	16
UN-M8X10	8X6	25.9	19
UN-M10X10	10X8	25.9	"
UN-M12X10	12X10	31	24
UN-M19X10	19X15.8	38.5	32
UN-M25X5	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-H1	3.18X2.18	12.5	5
HN-H2	6.35X3.95	18.5	6
HN-H3	9.53X6.35	22	"
HN-H4	12.7X9.53	27.7	7.3
HN-H6	19.05X15.8	37	"
HN-H8	25.4X22.2	50.1	"

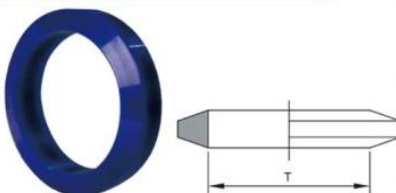
MM TYPE

	T	øA	B
HN-M3X10	3X2	12.5	5
HN-M4X10	4X3	"	"
HN-M6X10	6X4	18.5	6
HN-M8/M10X10	8X6/10X8	22	"
HN-M12X10	12X10	27.7	7.3
HN-M19X10	19X15.8	37	"
HN-M25X10	25X22	50.1	"

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-H10VX10	31.8X28
RI-H12VX10	38.1X33.7

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-H1SX10	3.18X2.18
RI-H2SX10	6.35X3.95
RI-H3SX10	9.53X6.35
RI-H4SX10	12.7X9.53
RI-H6SX10	19.05X15.8
RI-H8SX10	25.4X22.2
RI-H10SX10	31.8X28
RI-H12SX10	38.1X33.7

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

UNIT:MM

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

SPECIAL FLARING TOOL FOR FIT-ONE

HOT FLARING TOOLS



Be sure to use our special nut wrench for cool flaring . Heat flaring is the basic, but cool flaring only is possible on some fixed sizes.
(only heat flaring on sizes 1-1/4", 1-1/2" ;
only cool 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	
1 1/4" (31.8x28)	--	JA-H10	not required
1 1/2" (38.1x33.7)	--	JA-H12	

COLD FLARING TOOLS



Tube size		Applicable tools	
Inch series	mm series	Tool No.	Attachment
1/8" (3.18x2.18)	3x2	JC-H1/M3	JC-AP depending on requirement
--	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 is 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)	8x6-10x8	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)	25 x22	SP-H8/M25
1 1/4" (31.8x28)	--	SP-H10
1 1/2" (38.1x33.7)	--	SP-H12

PORTABLE TUBE FLARING HEATING MACHINE

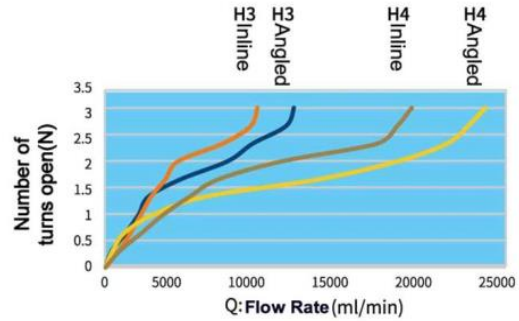


- Easy to carry, good for use in clean room
- Safty - overheat prevention
- Quick flaring within 20 sec., suitable for various plastic mat'ls.
- Size range : 1/4"-1" (M6-M25)
- Product specification
Voltage: 110V ,300W
Fuse: 4A-500V
Max. usage temp.: 350°C
Size: 24*15*15cm, weight : 6kgs

PFA ON-OFF VALVE

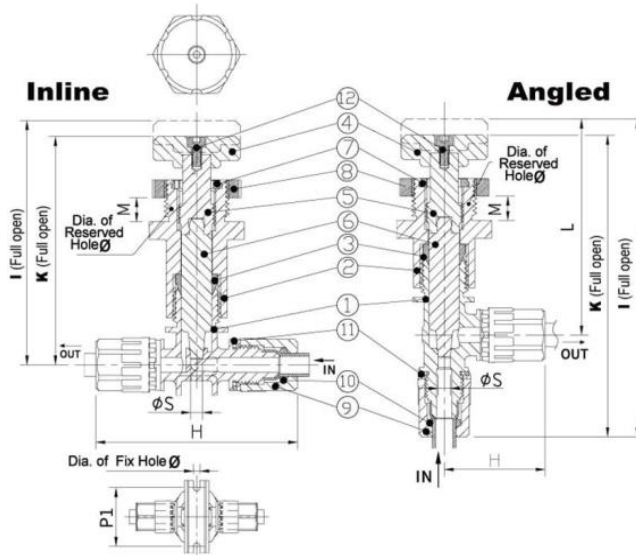


Flow Curves



Function Chart

Operation method	Manual
Connection	Fit-one fitting
Max.operating pressure	0.7MPa
Max.operating temp.	100°C
Enviroment temp.	60°C



Item No.	Description	Material	Q'ty
01	Body	PFA	1
02	Nut	PP	1
03	Ferrule	PTFE	1
04	Stem(Handle)	PP	1
05	Stem(Middle)	PP	1
06	Stem(Needle)	PFA	1
07	Stopper	PP	1
08	Lock Nut	PFA	1
09	Nut(Tube End)	PFA	2
10	Compression Ring	PVDF	2
11	Lock Ring	ETFE	2
12	Hex. Socket Bolt	PPS	1

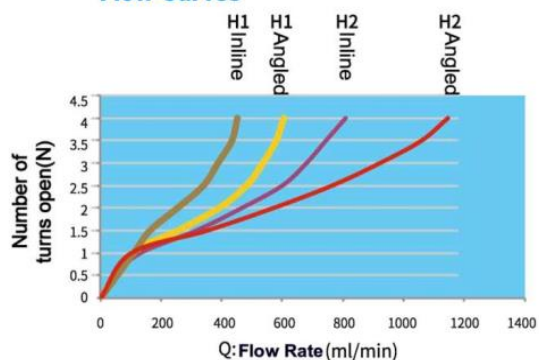
	NO.	SIZE	ØS	I (Ref.)	K (Ref.)	J	H	L	P1	Dia. of Fix Hole	Dia. of Reserved Hole	M	INLET/OUTLET	Hex. Socket Bolt
Inline	JHAW-M12	M12	8	114.5	107.3		106		48	7	38	Ma x 10	12x10	M6xP1x10L
	JHAW-H4	1/2"	8	114.5	107.3		106		48	7	38	Ma x 10	12.7x9.53	M6xP1x10L
	JHAW-M8	M8	5	100.8	94.3		84.7		40	4.5	29	Ma x 10	8x6	M4xP0.7x8L
	JHAW-H3	3/8"	5	100.8	94.3		84.7		40	4.5	29	Ma x 10	9.53x6.35	M4xP0.7x8L
Angled	JHA-M12	M12	8	152.9	145.7	27	53	99.9			38	Ma x 10	12x10	M6xP1x10L
	JHA-H4	1/2"	8	152.9	145.7	27	53	99.9			38	Ma x 10	12.7x9.53	M6xP1x10L
	JHA-M8	M8	5	131.4	124.8	18	42.4	89.0			29	Ma x 10	8x6	M4xP0.7x8L
	JHA-H3	3/8"	5	131.4	124.8	18	42.4	89.0			29	Ma x 10	9.53x6.35	M4xP0.7x8L

J indicates the dimension of the body width

PFA NEEDLE VALVE



Flow Curves



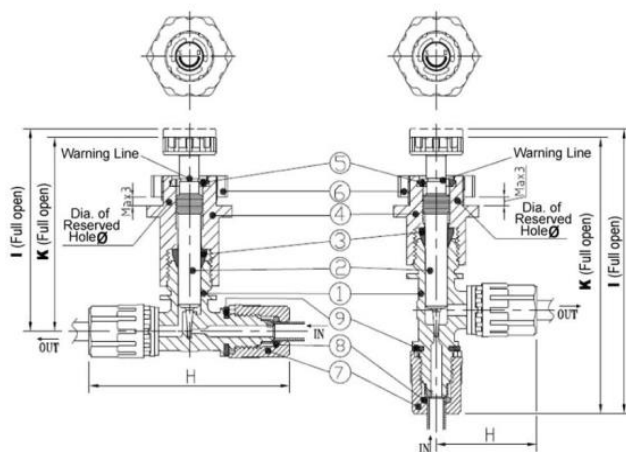
PFA NEEDLE VALVE

Function Chart

Operation method	Manual
Connection	Fit-one fitting
Max.operating pressure	0.7MPa
Max.operating temp.	100°C
Enviroment temp.	60°C

Inline

Angled



Item No.	Description	Material	Q'ty
01	Body	PFA	1
02	Nut	PP	1
03	Ferrule	PTFE	1
04	Stem(Handle)	PP	1
05	Stem(Middle)	PP	1
06	Stem(Needle)	PFA	1
07	Stopper	PP	1
08	Lock Nut	PFA	1
09	Nut(Tube End)	PFA	2
10	Compression Ring	PVDF	2
11	Lock Ring	ETFE	2
12	Hex. Socket Bolt	PPS	1

	NO.	SIZE	ØS	I (Ref.)	K (Ref.)	J	H	L	Dia. of Reserved Hole	M	INLET/ OUTLET	Hex. Socket Bolt
Inline	JHAW-M6	M6	1.6	70.1	67.2	14	71.4		22	Ma x 3	6x4	M4xP0.7x8L
	JHAW-H2	H2	1.6	70.1	67.2	14	71.4		22	Ma x 3	6.35x3.95	M4xP0.7x8L
	JHAW-M3	M3	1.6	70.1	67.2	14	58.6		22	Ma x 3	3x2	M4xP0.7x8L
	JHAW-H1	H1	1.6	70.1	67.2	14	58.6		22	Ma x 3	3.18x2.18	M4xP0.7x8L
Angled	JHA-M6	M6	1.6	98.5	95.6	14	35.7	70.3	22	Ma x 3	6x4	M4xP0.7x8L
	JHA-H2	H2	1.6	98.5	95.6	14	35.7	70.3	22	Ma x 3	6.35x3.95	M4xP0.7x8L
	JHA-M3	M3	1.6	92.1	89.1	14	29.3	67.4	22	Ma x 3	3x2	M4xP0.7x8L
	JHA-H1	H1	1.6	92.1	89.1	14	29.3	67.4	22	Ma x 3	3.18x2.18	M4xP0.7x8L

J indicates the dimension of the body width