

安装及注意事项

Valve 설치 및 주의사항



다음의 원인으로 고장시 보증기간과 관계없이 유료입니다.

- ① 보증기간이 끝난 뒤의 고장과 파손.
- ② 취급 부주의로 인한 사용상의 문제점.
- ③ 고객의 잘못된 수리 및 개조에 인한 고장과 파손.

因以下原因发生的故障，与保修期无关都会收费维修。

- ① 保修期结束后的故障和损坏。
- ② 因操作不当而发生的使用方面的问题。
- ③ 因顾客进行不当的修理及改造而造成的故障和损坏。

설계 및 선정 시

- ① 잘못된 기기 선정은 시스템 고장의 원인이 될 수 있습니다.
- ② 기기 선정 및 취급은 카다로그 확인 후 사용해 주십시오.
- ③ 제품 구성 재료와 사용 유체 주위 분위기와 적합성은 사전에 확인, 상담해 주십시오.
- ④ 유체압력 및 온도는 제품 카다로그를 참고해 주시기 바랍니다.

设计及选产品时

- ① 机械选择不正确，会导致系统发生故障。
- ② 选择及操作机械时，请提前确认产品目录。
- ③ 产品构成材料和使用流体周围环境和适合性，请提前咨询确认。
- ④ 流体压力及温度请参考产品目录。

보수 공간의 확보

- ① 보수 점검에 필요한 공간을 확보하여 주십시오.
- ② 잘못된 설치 및 배관은 고객의 시스템에 심각한 문제를 발생시키는 원인이 되며 그 밖의 유체와 관련 기기와의 적합성 등은 사전에 확인, 상담해 주십시오.

维修空间的确保

- ① 请确保维修检查所需要的空间。
- ② 不正确的安装及铺设管道会导致客户系统出现严重问题，此外请事先确认流体和相关机械的适当性等。

설치 시

설치 후 기능 및 누설 검사를 확인하고 바르게 설치 되었는지를 확인하여 주십시오.

安装时

安装后检查有无泄漏以及功能，并确认是否安装正确。

배관시

- ① 밸브 설치 시 반드시 배관 내부를 플러싱 해주십시오.
플러싱 진행시 밸브 전단에 필터 사용을 권장함
- ② 이물질의 혼입은 밸브 누수 현상의 원인이 됩니다.
- ③ 배관에 의한 압축, 휨 등이 밸브 몸체를 누르지 않도록 배관해 주십시오.
- ④ 튜브 배관 시 잡아당기면 나사산 파손 및 튜브가 빠져나와 약액이 누설될 수 있습니다.
- ⑤ NC, NO 형의 경우, 조작 압력을 가압하지 않는 포트는 대기 개방으로 하고 주위 분위기나 기타의 문제로 밸브에서 흡입, 배기시키고 싶지 않을 때는 고정나사를 풀어서 배관을 설치, 문제가 되지 않는 장소에서 설치를 해 주십시오.

铺设管道时

- ① 安装阀门时，请务必清洗配管内部。
安装阀门时，请务必清洗配管内部。建议在阀门前端使用过滤器。
- ② 异物混入会导致阀门发生漏水。
- ③ 铺设管道时注意不要因配管的压缩、弯曲等而向阀门施加压力。
- ④ 铺设管道时，如果用手拉动，就使螺纹破损及管道脱落而导致药液泄露。
- ⑤ 对于NC、NO型，不加以压力的接口实时开放，
若不想因周围环境或其他问题造成阀门吸气或排气时，
打开固定螺丝，将配管安装在不会发生问题的场所。

파일럿 포트

- ① 파일럿 포트 체결 토크는 밸브라벨 부착 스티커를 참조하시고 라벨에 표기가 없을 시에는 손으로 체결 후 체결 공구를 사용 1/4 바퀴를 더 조여 주십시오.
- ② 무리하게 조일 경우 파손의 원인이 됩니다.
- ③ 압축공기가 오염될 경우 작동 불량 원인이 됩니다.

Pilot port

- ① Pilot port连接扭矩请参考阀门粘贴标签，如果没有标签，
请用用手锁紧后，使用锁紧工具再拧四分之一圈。
- ② 如果用力过度，会导致损坏。
- ③ 压缩空气被污染，会导致运行不良。

제품보증

- ① 제품보증 기간은 판매일로부터 1년간 입니다.
- ② 보증기간에 당사의 설계 제작상의 문제로 고장과 파손이 되었을 경우 즉시 무료로 수리하거나 교체할 수 있습니다.

产品保修

- ① 产品保修期是销售日起一年。
- ② 保修期内因我公司的设计和制造问题而导致故障或损坏时，
会立即免费维修或更换。

07

PFA Fitting (Mega Lock Type)

01 Tube to Male pipe thread

- MALE CONNECTOR
- MALE ELBOW
- MALE TEE
- MALE RUN TEE

02 Tube to Female pipe thread

- FEMALE CONNECTOR
- FEMALE ELBOW
- FEMALE TEE

03 Tube to Tube

- UNION CONNECTOR
- UNION ELBOW
- UNION TEE
- REDUCING UNION CONNECTOR
- REDUCING UNION ELBOW
- REDUCING UNION TEE
- PANEL MOUNT UNION CONNECTOR
- PANEL MOUNT NUT

04 Space saver

- REDUCING UNION CONNECTOR ADAPTOR
- REDUCING UNION ELBOW ADAPTOR
- ELBOW ADAPTOR
- TEE ADAPTOR
- MALE CONNECTOR (FERRULE TYPE)

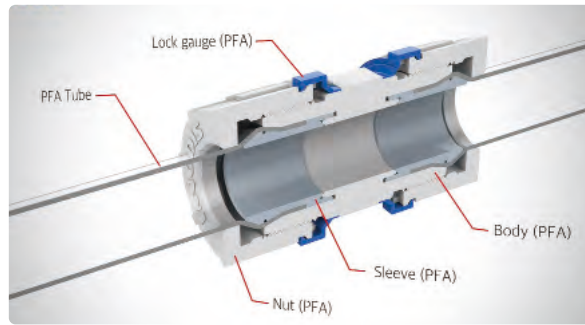
05 Others

- TUBE CAP
- CAP SLEEVE / NUT / SLEEVE

06 Fitting Jig

- TUBE EXPANDING JIG
- NUT ASSEMBLY JIG

5중 실링 구조에 의한 우수한 밀폐력과 튜브보다 높은 인장강도와 최대 200°C에서도 견디는 PFA Fitting입니다.
 双重密封结构的优秀密封度, 比软管更大的抗张力以及最高可承受200°C高温的PFA Fitting。



Mega Lock Type 제품 특성

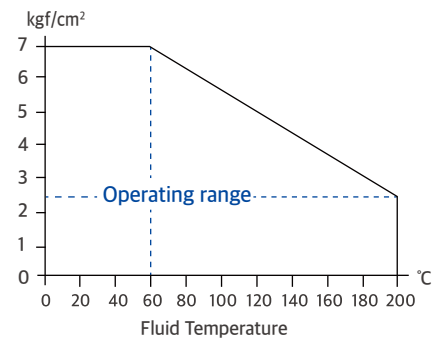
- Slide 압입 Type의 5중 Sealing 구조
- 미세 진동에 의한 너트 풀림 방지 Lock 기능
- Lock Gauge 홈 확인으로 아이 마킹 불필요
- Lock Gauge 홈 확인으로 Gauge 불필요
- PFA Tube 빠짐 현상 기능 개선
- 너트 체결 시 조임 토크 저감 설계
- Lock Gauge 소리 알림 기능으로 너트 체결 용이
- Lock Gauge 육안 확인 기능으로 너트 체결 용이
- Compact Design

Mega Lock Type 产品的特性

- Slide压入式5重密封结构
- 防止微细震动导致NUT松动的Lock功能
- 透过Lock Gauge槽查看, 无需眼标(Eye Marking)
- 透过Lock Gauge槽查看, 无需Gauge
- 改善PFA Tube脱落现象
- 采用拧紧Nut时降低拧动转矩的设计
- 有Lock Gauge 声音提醒功能, 拧紧NUT 很容易
- 有Lock Gauge 肉眼确认功能, 拧紧NUT 很容易
- 设计小巧

Specification

TUBE Material	Max pressure in operation
PFA, PTFE	7kgf/cm ²
Max temperature in operation	Fluid
200°C	For liquid use only
Ambient temperature range	
-15°C ~ 60°C	



Tube size

Metric connection

Unit : mm

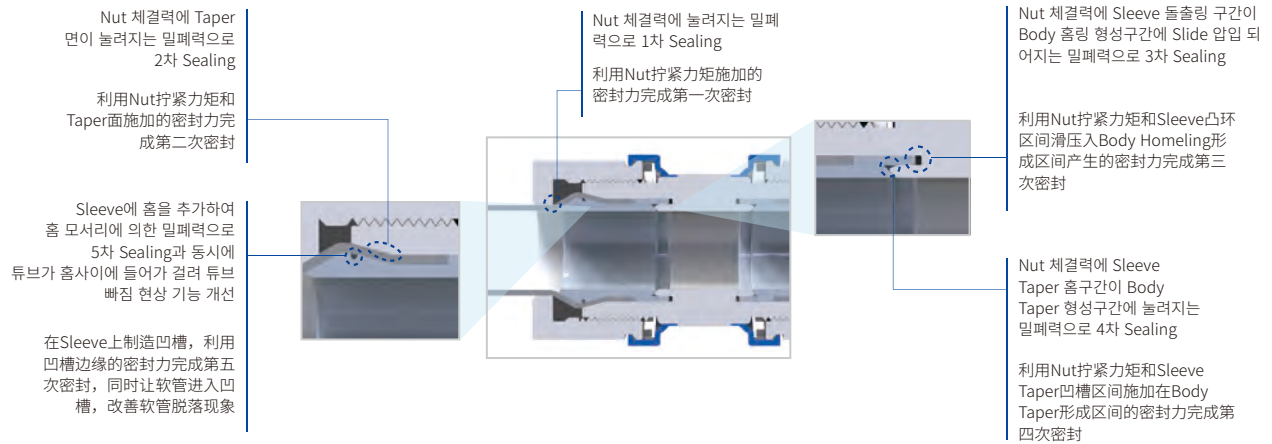
Tube size O.D × I.D	Thickness	Tolerance	
		O.D	Thickness
3×2	0.5	±0.10	±0.05
4×3			
6×4			
8×6	1.0	±0.12	±0.06
10×8			
12×10			
19×15.8	1.6	±0.20	±0.10
25×22	1.5		

Inch connection

Unit : mm

Tube size O.D × I.D	Thickness	Tolerance	
		O.D	Thickness
3.18×2.18 (1/8"×0.086")	0.5	±0.10	±0.05
6.35×3.95 (1/4"×5/32")	1.2		
9.53×6.33 (3/8"×1/4")	1.6 (1/16")	±0.12	±0.10
12.7×9.5 (1/2"×3/8")			
19×15.8 (3/4"×5/8")			
25.4×22.2 (1"×7/8")		±0.20	

Mega Lock Type Sealing 구조 (Mega Lock Type Sealing结构)



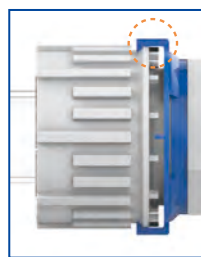
Mega Lock Type : Slide 압입 Type의 5중 Sealing 구조

Mega Lock Type : Slide压入式五重密封结构

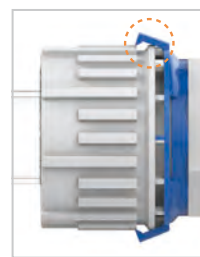
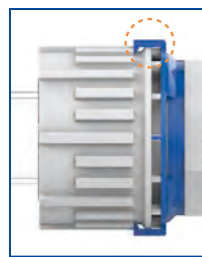
Mega Lock 너트 체결 확인 (检查 Mega Lock Nut的拧紧状态)



너트 체결 상태 불량 (미체결 상태)
Nut拧紧状态不良 (未连接状态)



너트 체결 상태 양호 (조립 체결)
Nut拧紧状态良好 (组装连接)



너트 체결 상태 불량 (과체결 상태)
Nut拧紧状态不良 (过紧状态)

※ 주의 注意

- 재조임을 할 경우에는 분리한 Tube와 Sleeve 및 본체의 Seal 면이 상처가 나지 않도록 주의하여 주십시오. 누설의 원인이 되는 경우도 있습니다.
重新拧紧时, 注意避免Tube、Sleeve及主体Seal面产生划痕, 可能会导致泄漏。
- Nut 재조임은, 10회까지 가능합니다. 最多可重新拧紧10次。
- 10회를 넘길 경우에는 Fitting을 교환하여 주십시오.
超过10次时, 请更换Fitting。

Mega Lock Fitting Lock Gauge Type



Sleeve 삽입 절차 (Sleeve安插步骤)

- Sleeve를 Tube에 삽입하기 전에 Nut의 방향을 확인하고 Sleeve를 Tube에 삽입해 주시기 바랍니다.
在使用插入工具把Sleeve插入Tube之前, 先确认Nut的方向, 再把Nut插入Tube。
- Sleeve를 Tube에 삽입할 때 Tube와 Sleeve의 Tube 끝단 사이에 간격이 남아 있을 수 있습니다.
이 경우 Sleeve와 Tube의 간격이 Sleeve 직선 구간의 80%이상 Tube를 삽입해 주시기 바랍니다.
将Sleeve插入Tube时, Tube与Sleeve的Tube末端之间可能会留有间隔。
此时, 使Sleeve与Tube的间距达到Sleeve直线区间的80%以上再插入Tube。
- Sleeve가 삽입된 Tube를 Fitting & Unit에 삽입하고, Lock Gauge가 Nut 체결 홈에 들어갈 때까지 Nut를 회전 체결해주시기 바랍니다.
소리가 들림과 동시에 Lock Gauge가 Nut 체결 홈에 들어가는 것이 보일 것입니다.
将插好Sleeve的Tube插入Fitting & Unit, 旋转拧紧Nut, 直至Lock Gauge进入Nut连接槽内。
听到声音后, 将看到Lock Gauge进入Nut连接槽内。
- 너트 체결 전용 지그를 사용하면 Nut를 보다 효율적으로 조일 수 있습니다.
使用拧紧Nut的专用夹具能更有效地拧紧Nut。

※ 주의 : Fitting 재사용의 경우 Sleeve 분해 시 Tube를 상하좌우로 흔들어서 분리하여 주시기 바랍니다.

무리하게 Sleeve 분해 시 Sleeve에서 Tube가 분리 될 우려가 있습니다.

注意 : 接头再次使用的时候, Sleeve拆卸时 请把Tube上下左右摇一摇后拆卸。

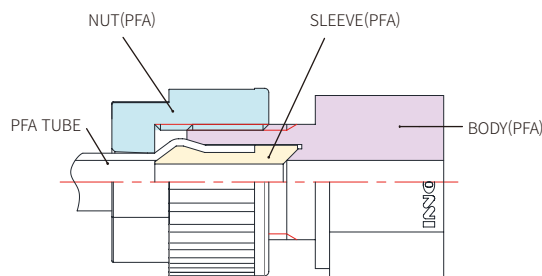
不合理的拆卸时, 会出现Sleeve和Tube分开的现象

Small Sized Models (1/8", 3mm, 4mm)

Small Sized Models(1/8", 3mm, 4mm)

소형 Fitting에는 Lock Gauge가 장착되지 않으므로
제조 업체에 문의 하시기 바랍니다.

小型Fitting上未安装Lock Gauge, 请使用制造商提供的
口径规或咨询。



- 사양 및 치수는 변경 될 수 있습니다.
功能以及尺寸会有变动。
- 모든 치수는 참고용입니다.
此手册的尺寸只需要参考用。
- 이 카탈로그의 데이터는 참고용이며 보증으로 해석되어서는 안됩니다.
此手册的数据为参考用,不可作为保证。



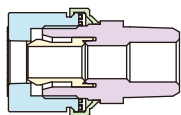
주의 注意

- 안전을 위해 설치 및 작동 전에 지침을 따르십시오.
为了安全, 安装及启动前请遵守指示。

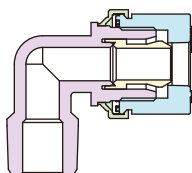
07 CONTENT

목차 目录

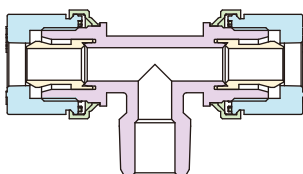
01 Tube to Male pipe thread



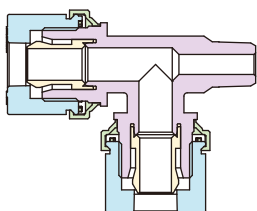
MALE CONNECTOR 69 - 70



MALE ELBOW 71 - 72

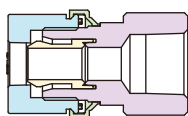


MALE TEE 73 - 74

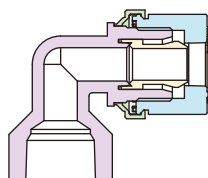


MALE RUN TEE 75

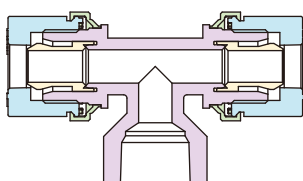
02 Tube to Female pipe thread



FEMALE CONNECTOR 78 - 79

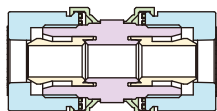


FEMALE ELBOW 80 - 81

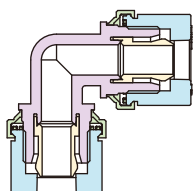


FEMALE TEE 82 - 83

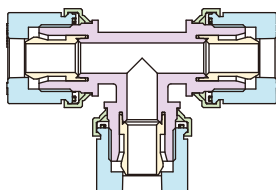
03 Tube to Tube



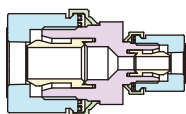
UNION CONNECTOR 86



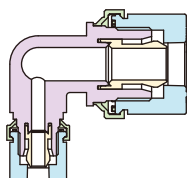
UNION ELBOW 86



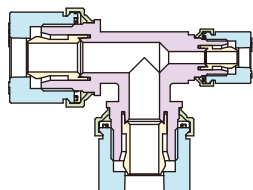
UNION TEE 86



REDUCING UNION CONNECTOR 87



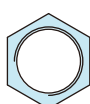
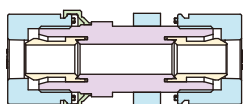
REDUCING UNION ELBOW 88



REDUCING UNION TEE 89 - 90

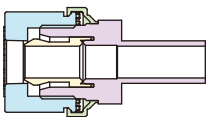
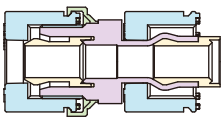
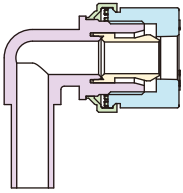
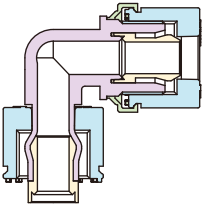
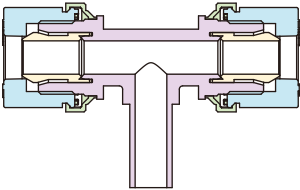
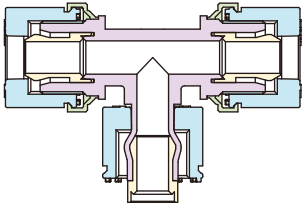
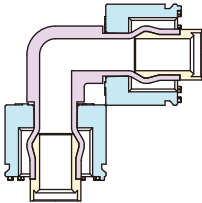
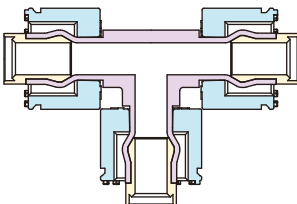
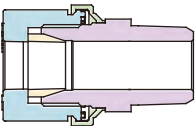
PANEL MOUNT
UNION CONNECTOR

PANEL MOUNT NUT

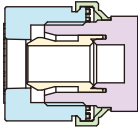
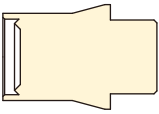
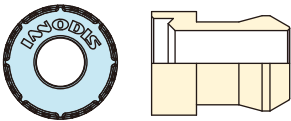


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SLEEVE			111

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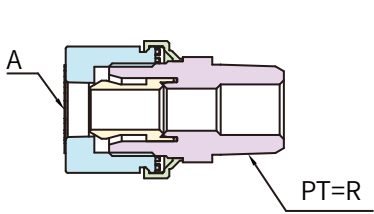
01

Tube to Male pipe thread

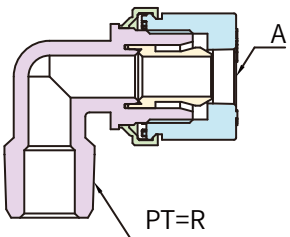
MALE CONNECTOR
MALE ELBOW
MALE TEE
MALE RUN TEE

MALE

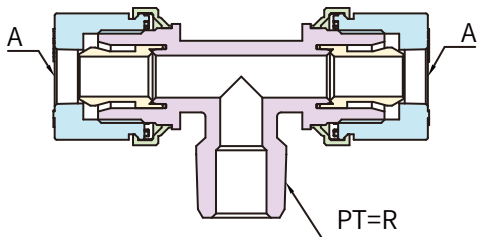
MALE CONNECTOR



MALE ELBOW



MALE TEE



IMC - 12i - R38 - M1

M1 : Mega Lock Type (사출 射出)

Size : R=PT
N=NPT

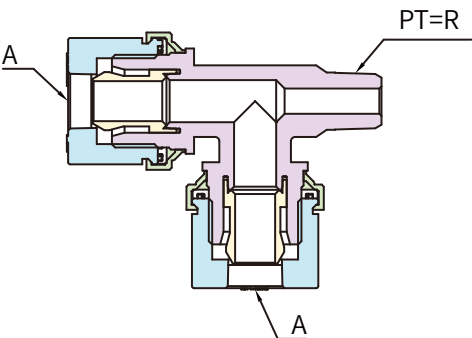
Tube Size : A (i=inch/m=mm)

IMC : Innodis Male Connector

IME : Innodis Male Elbow

IMT : Innodis Male Tee

MALE RUN TEE



IMRT - 12i - 12i - R38 - M1

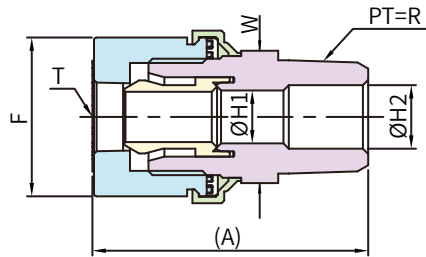
M1 : Mega Lock Type (사출 射出)

Size : R=PT
N=NPT

Tube Size : A (i=inch/m=mm)

IMRT : Innodis Male Run Tee

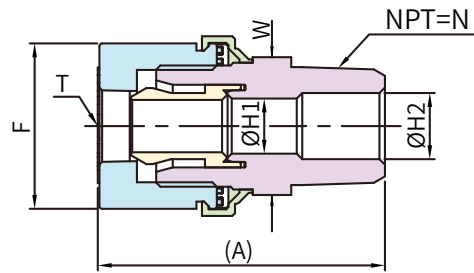
MALE CONNECTOR



PART No.	Tube Size	Thread Size	(A)	ØH1	ØH2	F	W
metric connection (R=PT)							Dimension : mm
IMC - 3m - R18 - M1	3 x 2	R 1/8	28	3	3	12.7	12
IMC - 4m - R18 - M1	4 x 3	"	"	"	"	"	"
IMC - 6m - R18 - M1	6 x 4	"	34.9	4	4	17	16
IMC - 6m - R14 - M1	"	R 1/4	38.8	"	6	"	"
IMC - 6m - R38 - M1	"	R 3/8	38.9	"	10	"	"
IMC - 6m - R12 - M1	"	R 1/2	44.9	"	12	"	21
IMC - 8m - R18 - M1	8 x 6	R 1/8	36.7	6	4	20	18
IMC - 8m - R14 - M1	"	R 1/4	40.7	"	6	"	"
IMC - 8m - R38 - M1	"	R 3/8	"	"	10	"	"
IMC - 8m - R12 - M1	"	R 1/2	44.7	"	12	"	21
IMC - 10m - R18 - M1	10 x 8	R 1/8	39.5	8	4	25	21
IMC - 10m - R14 - M1	"	R 1/4	43.5	"	6	"	"
IMC - 10m - R38 - M1	"	R 3/8	"	"	10	"	"
IMC - 10m - R12 - M1	"	R 1/2	47.5	"	12	"	"
IMC - 10m - R34 - M1	"	R 3/4	49.5	"	16	"	25
IMC - 12m - R14 - M1	12 x 10	R 1/4	48.2	10	6	30	"
IMC - 12m - R38 - M1	"	R 3/8	"	"	10	"	"
IMC - 12m - R12 - M1	"	R 1/2	52.2	"	12	"	"
IMC - 12m - R34 - M1	"	R 3/4	54.2	"	16	"	"
IMC - 19m - R14 - M1	19 x 15.8	R 1/4	58.4	16	6	40	34
IMC - 19m - R38 - M1	"	R 3/8	"	"	10	"	"
IMC - 19m - R12 - M1	"	R 1/2	62.4	"	12	"	"
IMC - 19m - R34 - M1	"	R 3/4	64.3	"	16	"	"
IMC - 19m - R1 - M1	"	R 1	67.4	"	22	"	"
IMC - 25m - R12 - M1	25 x 22	R 1/2	73.1	22	12	50.5	43
IMC - 25m - R34 - M1	"	R 3/4	75.1	"	16	"	"
IMC - 25m - R1 - M1	"	R 1	78.1	"	22	"	"

Inch connection (R=PT)							Dimension : mm
IMC - 18i - R18 - M1	1/8" x 0.086"	R 1/8	28	3	3	12.7	12
IMC - 14i - R18 - M1	1/4" x 5/32"	"	34.9	4	4	17	16
IMC - 14i - R14 - M1	"	R 1/4	38.8	"	6	"	"
IMC - 14i - R38 - M1	"	R 3/8	38.9	"	10	"	"
IMC - 14i - R12 - M1	"	R 1/2	44.9	"	12	"	21
IMC - 38i - R18 - M1	3/8" x 1/4"	R 1/8	39.5	8	4	25	21
IMC - 38i - R14 - M1	"	R 1/4	43.5	"	6	"	"
IMC - 38i - R38 - M1	"	R 3/8	"	"	10	"	"
IMC - 38i - R12 - M1	"	R 1/2	47.5	"	12	"	"
IMC - 38i - R34 - M1	"	R 3/4	49.5	"	16	"	25
IMC - 12i - R14 - M1	1/2" x 3/8"	R 1/4	48.2	10	6	30	"
IMC - 12i - R38 - M1	"	R 3/8	"	"	10	"	"
IMC - 12i - R12 - M1	"	R 1/2	52.2	"	12	"	"
IMC - 12i - R34 - M1	"	R 3/4	54.2	"	16	"	"
IMC - 34i - R14 - M1	3/4" x 5/8"	R 1/4	58.4	16	6	40	34
IMC - 34i - R38 - M1	"	R 3/8	"	"	10	"	"
IMC - 34i - R12 - M1	"	R 1/2	62.4	"	12	"	"
IMC - 34i - R34 - M1	"	R 3/4	64.3	"	16	"	"
IMC - 34i - R1 - M1	"	R 1	67.4	"	22	"	"
IMC - 1i - R12 - M1	1" x 7/8"	R 1/2	73.1	22	12	50.5	43
IMC - 1i - R34 - M1	"	R 3/4	75.1	"	16	"	"
IMC - 1i - R1 - M1	"	R 1	78.1	"	22	"	"

MALE CONNECTOR

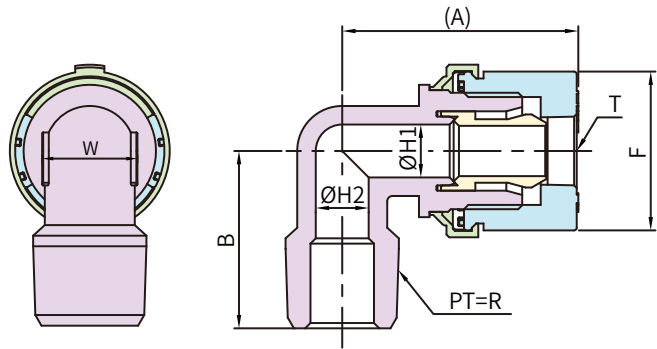


PART No.	Tube Size	Thread Size	(A)	ØH1	ØH2	F	W
metric connection (N=NPT)							Dimension : mm
IMC - 6m - N18 - M1	6 x 4	NPT 1/8	34.9	4	4	17	16
IMC - 6m - N14 - M1	"	NPT 1/4	38.8	"	6	"	"
IMC - 6m - N38 - M1	"	NPT 3/8	38.9	"	10	"	"
IMC - 8m - N38 - M1	8 x 6	NPT 3/8	40.7	6	10	20	18
IMC - 10m - N14 - M1	10 x 8	NPT 1/4	43.5	8	6	25	21
IMC - 10m - N38 - M1	"	NPT 3/8	"	"	10	"	"
IMC - 10m - N12 - M1	"	NPT 1/2	47.5	"	12	"	"
IMC - 12m - N38 - M1	12 x 10	NPT 3/8	48.2	10	10	30	25
IMC - 12m - N12 - M1	"	NPT 1/2	52.2	"	12	"	"
IMC - 12m - N34 - M1	"	NPT 3/4	54.2	"	16	"	"
IMC - 19m - N12 - M1	19 x 15.8	NPT 1/2	62.4	16	12	40	34
IMC - 19m - N34 - M1	"	NPT 3/4	64.3	"	16	"	"
IMC - 19m - N1 - M1	"	NPT 1	67.4	"	22	"	"
IMC - 25m - N12 - M1	25 x 22	NPT 1/2	73.1	22	12	50.5	43
IMC - 25m - N34 - M1	"	NPT 3/4	75.1	"	16	"	"
IMC - 25m - N1 - M1	"	NPT 1	78.1	"	22	"	"

Inch connection (N=NPT)							Dimension : mm
IMC - 14i - N18 - M1	1/4" x 5/32"	NPT 1/8	34.9	4	4	17	16
IMC - 14i - N14 - M1	"	NPT 1/4	38.8	"	6	"	"
IMC - 14i - N38 - M1	"	NPT 3/8	38.9	"	10	"	"
IMC - 38i - N14 - M1	3/8" x 1/4"	NPT 1/4	43.5	8	6	25	21
IMC - 38i - N38 - M1	"	NPT 3/8	"	"	10	"	"
IMC - 38i - N12 - M1	"	NPT 1/2	47.5	"	12	"	"
IMC - 12i - N38 - M1	1/2" x 3/8"	NPT 3/8	48.2	10	10	30	25
IMC - 12i - N12 - M1	"	NPT 1/2	52.2	"	12	"	"
IMC - 12i - N34 - M1	"	NPT 3/4	54.2	"	16	"	"
IMC - 34i - N12 - M1	3/4" x 5/8"	NPT 1/2	62.4	16	12	40	34
IMC - 34i - N34 - M1	"	NPT 3/4	64.3	"	16	"	"
IMC - 34i - N1 - M1	"	NPT 1	67.4	"	22	"	"
IMC - 1i - N12 - M1	1" x 7/8"	NPT 1/2	73.1	22	12	50.5	43
IMC - 1i - N34 - M1	"	NPT 3/4	75.1	"	16	"	"
IMC - 1i - N1 - M1	"	NPT 1	78.1	"	22	"	"

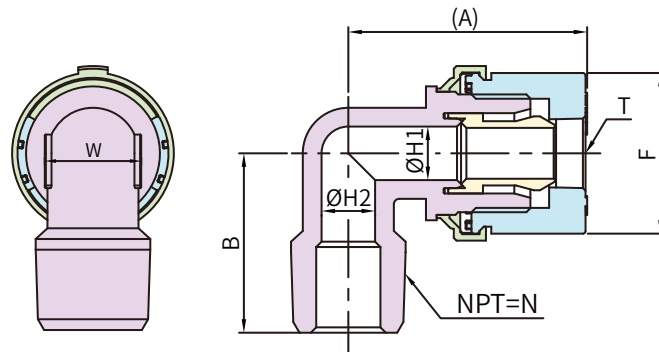
•PART NO. 외에 사이즈는 영업부에 문의하여 주시기 바랍니다

PART NO. 以外の尺寸 请咨询营业部



PART No.	Tube Size	Thread Size	(A)	B	ØH1	ØH2	F	W
metric connection (R=PT) Dimension : mm								
IME - 3m - R18 - M1	3 x 2	R 1/8	24.1	19.2	3	3	12.7	7
IME - 4m - R18 - M1	4 x 3	"	"	"	"	"	"	"
IME - 6m - R18 - M1	6 x 4	"	30.4	20.5	4	4	17	9.6
IME - 6m - R14 - M1	"	R 1/4	30.3	25.5	"	"	"	"
IME - 6m - R38 - M1	"	R 3/8	30.4	25	"	"	"	"
IME - 6m - R12 - M1	"	R 1/2	33.4	31.5	"	8	"	14.8
IME - 8m - R14 - M1	8 x 6	R 1/4	33.7	26.5	6	6	20	13
IME - 8m - R38 - M1	"	R 3/8	"	"	"	"	"	"
IME - 10m - R18 - M1	10 x 8	R 1/8	37.7	23.2	8	4	25	14.8
IME - 10m - R14 - M1	"	R 1/4	"	27.7	"	6	"	"
IME - 10m - R38 - M1	"	R 3/8	"	"	"	8	"	"
IME - 10m - R12 - M1	"	R 1/2	"	31.2	"	"	"	"
IME - 12m - R14 - M1	12 x 10	R 1/4	44.2	29.5	10	6	30	18
IME - 12m - R38 - M1	"	R 3/8	"	"	"	10	"	"
IME - 12m - R12 - M1	"	R 1/2	"	33	"	"	"	"
IME - 12m - R34 - M1	"	R 3/4	"	35	"	"	"	"
IME - 19m - R38 - M1	19 x 15.8	R 3/8	56.4	34	16	10	40	27
IME - 19m - R12 - M1	"	R 1/2	"	37.5	"	12	"	"
IME - 19m - R34 - M1	"	R 3/4	"	39.5	"	16	"	"
IME - 19m - R1 - M1	"	R 1	"	"	"	"	"	"
IME - 25m - R38 - M1	25 x 22	R 3/8	67.7	38.3	22	10	50.5	34
IME - 25m - R12 - M1	"	R 1/2	"	41.8	"	12	"	"
IME - 25m - R34 - M1	"	R 3/4	"	43.8	"	16	"	"
IME - 25m - R1 - M1	"	R 1	"	47.8	"	22	"	"
Inch connection (R=PT) Dimension : mm								
IME - 18i - R18 - M1	1/8" x 0.086"	R 1/8	24.1	19.2	3	3	12.7	7
IME - 14i - R18 - M1	1/4" x 5/32"	"	30.4	20.5	4	4	17	9.6
IME - 14i - R14 - M1	"	R 1/4	30.3	25.5	"	"	"	"
IME - 14i - R38 - M1	"	R 3/8	30.4	25	"	"	"	"
IME - 14i - R12 - M1	"	R 1/2	33.4	31.5	"	8	"	14.8
IME - 38i - R18 - M1	3/8" x 1/4"	R 1/8	37.7	23.2	8	4	25	"
IME - 38i - R14 - M1	"	R 1/4	"	27.7	"	6	"	"
IME - 38i - R38 - M1	"	R 3/8	"	"	"	8	"	"
IME - 38i - R12 - M1	"	R 1/2	"	31.2	"	"	"	"
IME - 12i - R14 - M1	1/2" x 3/8"	R 1/4	44.2	29.5	10	6	30	18
IME - 12i - R38 - M1	"	R 3/8	"	"	"	10	"	"
IME - 12i - R12 - M1	"	R 1/2	"	33	"	"	"	"
IME - 12i - R34 - M1	"	R 3/4	"	35	"	"	"	"
IME - 34i - R38 - M1	3/4" x 5/8"	R 3/8	56.4	34	16	10	40	27
IME - 34i - R12 - M1	"	R 1/2	"	37.5	"	12	"	"
IME - 34i - R34 - M1	"	R 3/4	"	39.5	"	16	"	"
IME - 34i - R1 - M1	"	R 1	"	"	"	"	"	"
IME - 1i - R38 - M1	1" x 7/8"	R 3/8	67.7	38.3	22	10	50.5	34
IME - 1i - R12 - M1	"	R 1/2	"	41.8	"	12	"	"
IME - 1i - R34 - M1	"	R 3/4	"	43.8	"	16	"	"
IME - 1i - R1 - M1	"	R 1	"	47.8	"	22	"	"

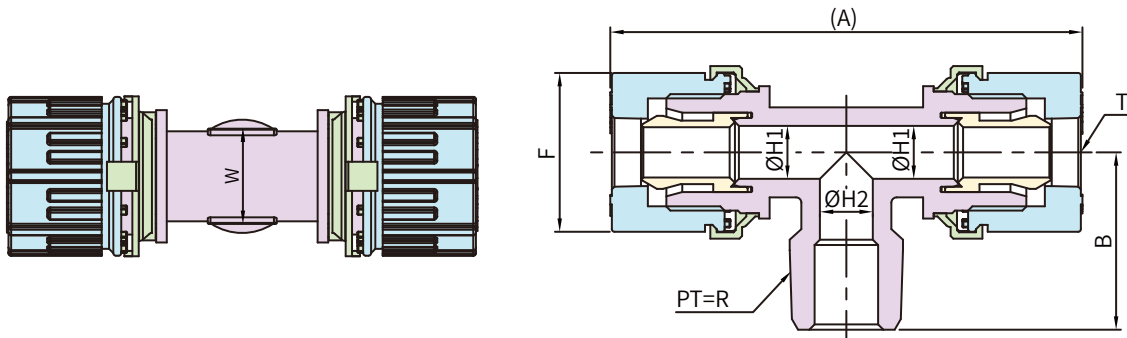
MALE ELBOW



PART No.	Tube Size	Thread Size	(A)	(B)	ØH1	ØH2	F	W
metric connection (N=NPT)								Dimension : mm
IME - 6m - N18 - M1	6 x 4	NPT 1/8	30.4	20.5	4	4	17	9.6
IME - 6m - N14 - M1	"	NPT 1/4	"	25.5	"	"	"	"
IME - 6m - N38 - M1	"	NPT 3/8	"	25	"	"	"	"
IME - 8m - N38 - M1	8 x 6	NPT 3/8	33.7	26.5	6	6	20	13
IME - 10m - N14 - M1	10 x 8	NPT 1/4	37.7	27.7	8	6	25	14.8
IME - 10m - N38 - M1	"	NPT 3/8	"	"	"	8	"	"
IME - 10m - N12 - M1	"	NPT 1/2	"	31.2	"	"	"	"
IME - 12m - N38 - M1	12 x 10	NPT 3/8	44.2	29.5	10	10	30	18
IME - 12m - N12 - M1	"	NPT 1/2	"	33	"	"	"	"
IME - 12m - N34 - M1	"	NPT 3/4	"	35	"	"	"	"
IME - 19m - N12 - M1	19 x 15.8	NPT 1/2	56.4	37.5	16	12	40	27
IME - 19m - N34 - M1	"	NPT 3/4	"	39.5	"	16	"	"
IME - 19m - N1 - M1	"	NPT 1	"	"	"	"	"	"
IME - 25m - N12 - M1	25 x 22	NPT 1/2	67.7	41.8	22	12	50.5	34
IME - 25m - N34 - M1	"	NPT 3/4	"	43.8	"	16	"	"
IME - 25m - N1 - M1	"	NPT 1	"	47.8	"	22	"	"
Inch connection (N=NPT)								Dimension : mm
IME - 14i - N18 - M1	1/4" x 5/32"	NPT 1/8	30.4	20.5	4	4	17	9.6
IME - 14i - N14 - M1	"	NPT 1/4	"	25.5	"	"	"	"
IME - 14i - N38 - M1	"	NPT 3/8	"	25	"	"	"	"
IME - 38i - N14 - M1	3/8" x 1/4"	NPT 1/4	37.7	27.7	8	6	25	14.8
IME - 38i - N38 - M1	"	NPT 3/8	"	"	"	8	"	"
IME - 38i - N12 - M1	"	NPT 1/2	"	31.2	"	"	"	"
IME - 12i - N38 - M1	1/2" x 3/8"	NPT 3/8	44.2	29.5	10	10	30	18
IME - 12i - N12 - M1	"	NPT 1/2	"	33	"	"	"	"
IME - 12i - N34 - M1	"	NPT 3/4	"	35	"	"	"	"
IME - 34i - N12 - M1	3/4" x 5/8"	NPT 1/2	56.4	37.5	16	12	40	27
IME - 34i - N34 - M1	"	NPT 3/4	"	39.5	"	16	"	"
IME - 34i - N1 - M1	"	NPT 1	"	"	"	"	"	"
IME - 1i - N12 - M1	1" x 7/8"	NPT 1/2	67.7	41.8	22	12	50.5	34
IME - 1i - N34 - M1	"	NPT 3/4	"	43.8	"	16	"	"
IME - 1i - N1 - M1	"	NPT 1	"	47.8	"	22	"	"

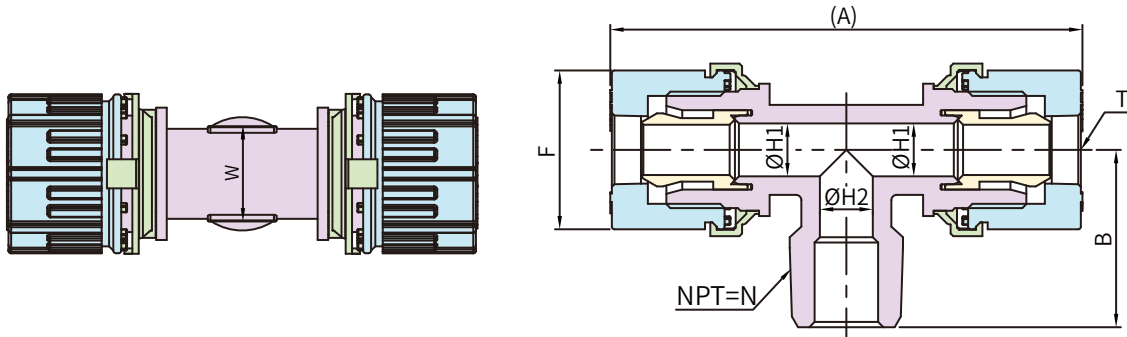
•PART NO. 외에 사이즈는 영업부에 문의하여 주시기 바랍니다

PART NO. 以外的の尺寸 请咨询营业部



PART No.	Tube Size	Thread Size	(A)	B	ØH1	ØH2	F	W
metric connection (R=PT)								Dimension : mm
IMT - 3m - R18 - M1	3 x 2	R 1/8	48.1	19.2	3	3	12.7	7
IMT - 4m - R18 - M1	4 x 3	"	"	"	"	"	"	"
IMT - 6m - R18 - M1	6 x 4	"	60.8	20.5	4	4	17	9.6
IMT - 6m - R14 - M1	"	R 1/4	"	25.5	"	"	"	"
IMT - 6m - R38 - M1	"	R 3/8	"	25	"	"	"	"
IMT - 8m - R14 - M1	8 x 6	R 1/4	67.4	26.5	6	6	20	13
IMT - 8m - R38 - M1	"	R 3/8	"	"	"	"	"	"
IMT - 10m - R14 - M1	10 x 8	R 1/4	75.8	27.8	8	8	25	14.8
IMT - 10m - R38 - M1	"	R 3/8	"	"	"	"	"	"
IMT - 10m - R12 - M1	"	R 1/2	"	31.3	"	"	"	"
IMT - 12m - R14 - M1	12 x 10	R 1/4	88.9	29.5	10	6	30	18
IMT - 12m - R38 - M1	"	R 3/8	"	"	"	10	"	"
IMT - 12m - R12 - M1	"	R 1/2	"	33	"	"	"	"
IMT - 12m - R34 - M1	"	R 3/4	"	35	"	"	"	"
IMT - 19m - R38 - M1	19 x 15.8	R 3/8	112.8	34	16	10	40	27
IMT - 19m - R12 - M1	"	R 1/2	"	37.5	"	12	"	"
IMT - 19m - R34 - M1	"	R 3/4	"	39.5	"	16	"	"
IMT - 19m - R1 - M1	"	R 1	"	"	"	"	"	"
IMT - 25m - R12 - M1	25 x 22	R 1/2	135.8	42	22	12	50.5	34
IMT - 25m - R34 - M1	"	R 3/4	"	44	"	16	"	"
IMT - 25m - R1 - M1	"	R 1	"	48	"	22	"	"
Inch connection (R=PT)								Dimension : mm
IMT - 18i - R18 - M1	1/8" x 0.086"	R 1/8	48.1	19.2	3	3	12.7	7
IMT - 14i - R18 - M1	1/4" x 5/32"	"	60.8	20.5	4	4	17	9.6
IMT - 14i - R14 - M1	"	R 1/4	"	25.5	"	"	"	"
IMT - 14i - R38 - M1	"	R 3/8	"	25	"	"	"	"
IMT - 38i - R14 - M1	3/8" x 1/4"	R 1/4	75.8	27.8	8	8	25	14.8
IMT - 38i - R38 - M1	"	R 3/8	"	"	"	"	"	"
IMT - 38i - R12 - M1	"	R 1/2	"	31.3	"	"	"	"
IMT - 12i - R14 - M1	1/2" x 3/8"	R 1/4	88.9	29.5	10	6	30	18
IMT - 12i - R38 - M1	"	R 3/8	"	"	"	10	"	"
IMT - 12i - R12 - M1	"	R 1/2	"	33	"	"	"	"
IMT - 12i - R34 - M1	"	R 3/4	"	35	"	"	"	"
IMT - 34i - R38 - M1	3/4" x 5/8"	R 3/8	112.8	34	16	10	40	27
IMT - 34i - R12 - M1	"	R 1/2	"	37.5	"	12	"	"
IMT - 34i - R34 - M1	"	R 3/4	"	39.5	"	16	"	"
IMT - 34i - R1 - M1	"	R 1	"	"	"	"	"	"
IMT - 1i - R12 - M1	1" x 7/8"	R 1/2	135.8	42	22	12	50.5	34
IMT - 1i - R34 - M1	"	R 3/4	"	44	"	16	"	"
IMT - 1i - R1 - M1	"	R 1	"	48	"	22	"	"

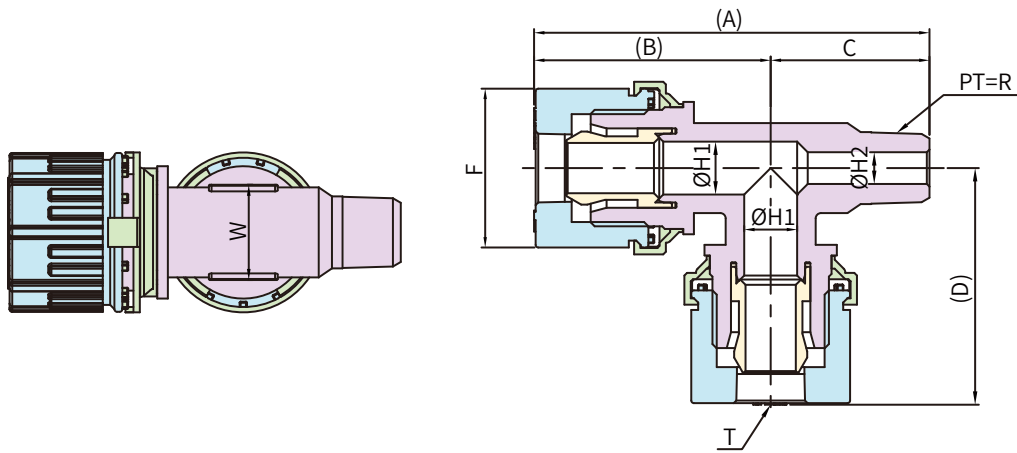
MALE TEE



PART No.	Tube Size	Thread Size	(A)	B	ØH1	ØH2	F	W
metric connection (R=NPT) Dimension : mm								
IMT - 6m - N18 - M1	6 x 4	NPT 1/8	60.8	20.5	4	4	17	9.6
IMT - 6m - N14 - M1	"	NPT 1/4	"	25.5	"	"	"	"
IMT - 6m - N38 - M1	"	NPT 3/8	"	25	"	"	"	"
IMT - 8m - N14 - M1	"	NPT 1/4	"	26.5	6	6	20	13
IMT - 8m - N38 - M1	"	NPT 3/8	"	"	"	"	"	"
IMT - 10m - N14 - M1	10 x 8	NPT 1/4	75.8	27.8	8	"	25	14.8
IMT - 10m - N38 - M1	"	NPT 3/8	"	"	"	8	"	"
IMT - 10m - N12 - M1	"	NPT 1/2	"	31.3	"	"	"	"
IMT - 12m - N38 - M1	12 x 10	NPT 3/8	88.9	29.5	10	10	30	18
IMT - 12m - N12 - M1	"	NPT 1/2	"	33	"	"	"	"
IMT - 12m - N34 - M1	"	NPT 3/4	"	35	"	"	"	"
IMT - 19m - N12 - M1	19 x 15.8	NPT 1/2	112.8	37.5	16	12	40	27
IMT - 19m - N34 - M1	"	NPT 3/4	"	39.5	"	16	"	"
IMT - 19m - N1 - M1	"	NPT 1	"	"	"	"	"	"
IMT - 25m - N12 - M1	25 x 22	NPT 1/2	135.8	42	22	12	50.5	34
IMT - 25m - N34 - M1	"	NPT 3/4	"	44	"	16	"	"
IMT - 25m - N1 - M1	"	NPT 1	"	48	"	22	"	"
Inch connection (R=NPT) Dimension : mm								
IMT - 14i - N18 - M1	1/4" x 5/32"	NPT 1/8	60.8	20.5	4	4	17	9.6
IMT - 14i - N14 - M1	"	NPT 1/4	"	25.5	"	"	"	"
IMT - 14i - N38 - M1	"	NPT 3/8	"	25	"	"	"	"
IMT - 38i - N14 - M1	3/8" x 1/4"	NPT 1/4	75.8	27.8	8	6	25	14.8
IMT - 38i - N38 - M1	"	NPT 3/8	"	"	"	8	"	"
IMT - 38i - N12 - M1	"	NPT 1/2	"	31.3	"	"	"	"
IMT - 12i - N38 - M1	1/2" x 3/8"	NPT 3/8	88.9	29.5	10	10	30	18
IMT - 12i - N12 - M1	"	NPT 1/2	"	33	"	"	"	"
IMT - 12i - N34 - M1	"	NPT 3/4	"	35	"	"	"	"
IMT - 34i - N12 - M1	19 x 15.8	NPT 1/2	112.8	37.5	16	12	40	27
IMT - 34i - N34 - M1	"	NPT 3/4	"	39.5	"	16	"	"
IMT - 34i - N1 - M1	"	NPT 1	"	"	"	"	"	"
IMT - 1i - N12 - M1	1" x 7/8"	NPT 1/2	135.8	42	22	12	50.5	34
IMT - 1i - N34 - M1	"	NPT 3/4	"	44	"	16	"	"
IMT - 1i - N1 - M1	"	NPT 1	"	48	"	22	"	"

•PART NO. 외에 사이즈는 영업부에 문의하여 주시기 바랍니다

PART NO. 以外の尺寸 请咨询营业部

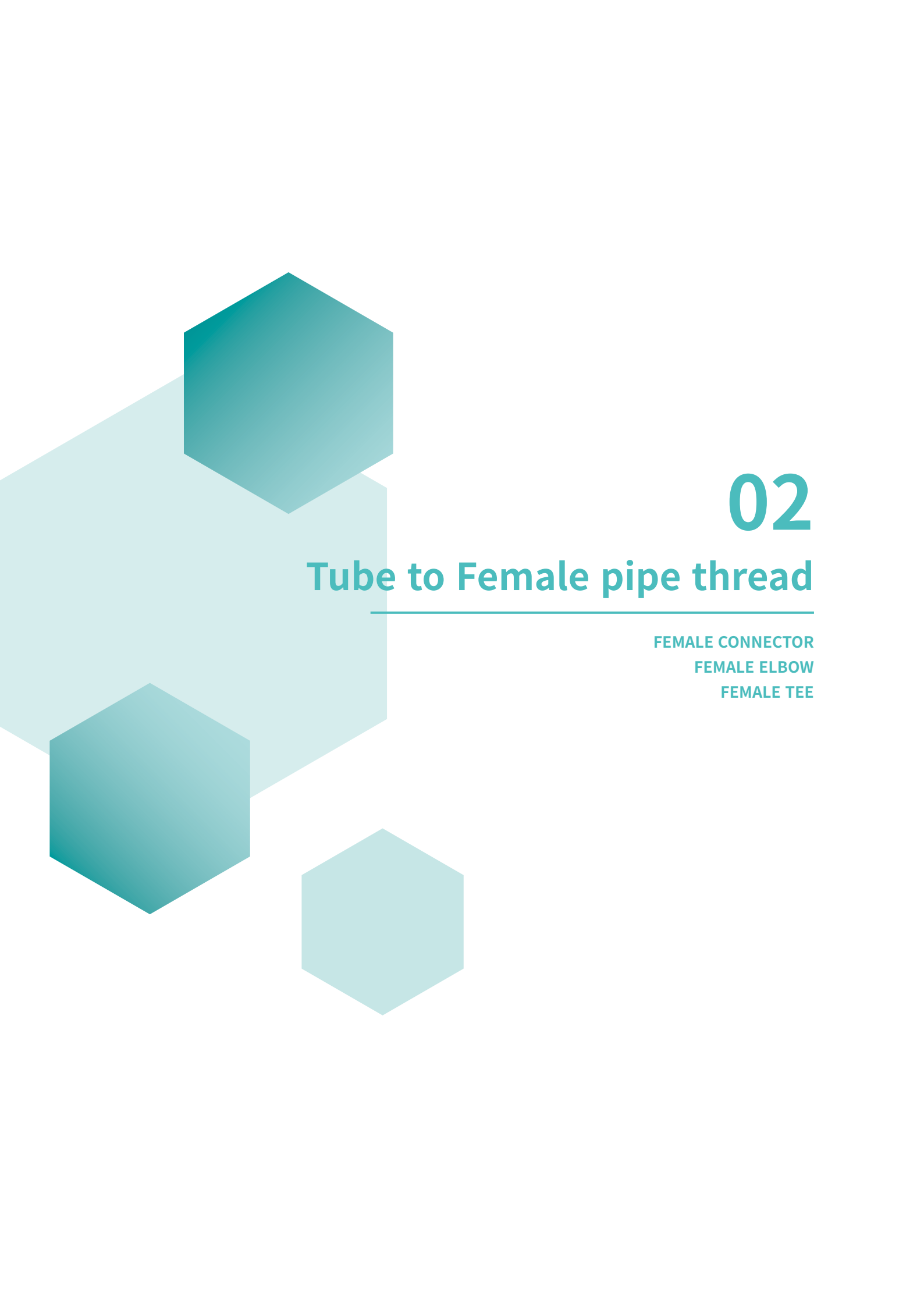


PART No.	Tube Size	Thread Size	(A)	(B)	C	(D)	ØH1	ØH2	F	W
metric connection (R=PT)										Dimension : mm
IMRT - 6m - 6m - R38 - M1	6 x 4	R 3/8	55.4	30.4	25	30.4	4	4	17	9.6
IMRT - 8m - 8m - R14 - M1	8 x 6	R 1/4	60.2	33.7	26.5	33.7	6	6	20	13
IMRT - 8m - 8m - R38 - M1	"	R 3/8	"	"	"	"	"	"	"	"
IMRT - 10m - 10m - R14 - M1	10 x 8	R 1/4	65.8	37.9	27.9	37.8	8	6	25	14.8
IMRT - 10m - 10m - R38 - M1	"	R 3/8	"	"	"	"	"	8	"	"
IMRT - 12m - 12m - R14 - M1	12 x 10	R 1/4	74.2	44.45	29.75	44.2	10	6	30	18
IMRT - 12m - 12m - R38 - M1	"	R 3/8	"	"	"	"	"	10	"	"
IMRT - 12m - 12m - R12 - M1	"	R 1/2	77.7	"	33.25	"	"	"	"	"
IMRT - 19m - 19m - R14 - M1	19 x 15.8	R 1/4	90.4	56.4	34	56.4	16	6	40	27
IMRT - 19m - 19m - R38 - M1	"	R 3/8	"	"	"	"	"	10	"	"
IMRT - 19m - 19m - R12 - M1	"	R 1/2	93	"	36.6	"	"	12	"	"
IMRT - 19m - 19m - R34 - M1	"	R 3/4	95.9	"	39.5	"	"	16	"	"
IMRT - 25m - 25m - R34 - M1	1" x 7/8"	"	111.9	67.9	44	67.9	22	"	50.5	34
IMRT - 25m - 25m - R1 - M1	"	R 1	115.9	"	48	"	"	22	"	"

Inch connection (R=PT)										Dimension : mm
IMRT - 14i - 14i - R38 - M1	1/4" x 5/32"	R 3/8	55.4	30.4	25	30.4	4	4	17	9.6
IMRT - 38i - 38i - R14 - M1	3/8" x 1/4"	R 1/4	65.8	37.9	27.9	37.8	8	6	25	14.8
IMRT - 38i - 38i - R38 - M1	"	R 3/8	"	"	"	"	"	8	"	"
IMRT - 12i - 12i - R14 - M1	1/2" x 3/8"	R 1/4	74.2	44.45	29.75	44.2	10	6	30	18
IMRT - 12i - 12i - R38 - M1	"	R 3/8	"	"	"	"	"	10	"	"
IMRT - 12i - 12i - R12 - M1	"	R 1/2	77.7	"	33.25	"	"	"	"	"
IMRT - 34i - 34i - R14 - M1	3/4" x 5/8"	R 1/4	90.4	56.4	34	56.4	16	6	40	27
IMRT - 34i - 34i - R38 - M1	"	R 3/8	"	"	"	"	"	10	"	"
IMRT - 34i - 34i - R12 - M1	"	R 1/2	93.9	"	37.5	"	"	12	"	"
IMRT - 34i - 34i - R34 - M1	"	R 3/4	95.9	"	39.5	"	"	16	"	"
IMRT - 1i - 1i - R34 - M1	1" x 7/8"	"	111.9	67.9	44	67.9	22	"	50.5	34
IMRT - 1i - 1i - R1 - M1	"	R 1	115.9	"	48	"	"	22	"	"

•PART NO. 외에 사이즈는 영업부에 문의하여 주시기 바랍니다

PART NO. 以外の尺寸 请咨询营业部



02

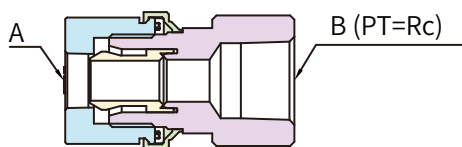
Tube to Female pipe thread

FEMALE CONNECTOR

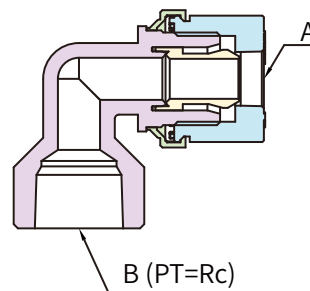
FEMALE ELBOW

FEMALE TEE

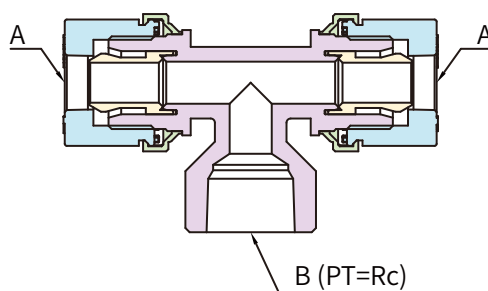
FEMALE CONNECTOR



FEMALE ELBOW



FEMALE TEE



IFC - 12i - R38 - M1

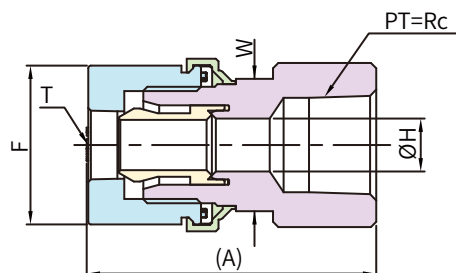
M1 : Mega Lock Type (사출 射出)

Size : B (R=PT)

Tube Size : A (i=inch/m=mm)

IFC : Innodis Female Connector
IFE : Innodis Female Elbow
IFT : Innodis Female Tee

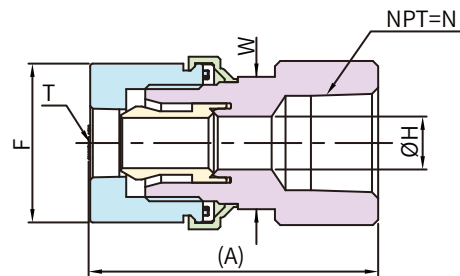
FEMALE CONNECTOR



PART No.	Tube Size	Thread Size	(A)	ØH	F	W
metric connection (Rc=PT)						Dimension : mm
IFC - 6m - R18 - M1	6 x 4	Rc 1/8	34.9	4	17	16
IFC - 6m - R14 - M1	"	Rc 1/4	41.9	"	"	"
IFC - 8m - R18 - M1	8 x 6	Rc 1/8	39.2	6	20	18
IFC - 8m - R14 - M1	"	Rc 1/4	43.2	"	"	"
IFC - 8m - R38 - M1	"	Rc 3/8	45.2	"	"	"
IFC - 10m - R18 - M1	10 x 8	Rc 1/8	42	8	25	21
IFC - 10m - R14 - M1	"	Rc 1/4	46	"	"	"
IFC - 10m - R38 - M1	"	Rc 3/8	48	"	"	"
IFC - 12m - R18 - M1	12 x 10	Rc 1/8	46.7	10	30	25
IFC - 12m - R14 - M1	"	Rc 1/4	50.7	"	"	"
IFC - 12m - R38 - M1	"	Rc 3/8	52.7	"	"	"
IFC - 12m - R12 - M1	"	Rc 1/2	54.7	"	"	"
IFC - 19m - R14 - M1	19 x 15.8	Rc 1/4	60.9	16	40	34
IFC - 19m - R38 - M1	"	Rc 3/8	62.9	"	"	"
IFC - 19m - R12 - M1	"	Rc 1/2	64.9	"	"	"
IFC - 19m - R34 - M1	"	Rc 3/4	69.4	"	"	"
IFC - 25m - R34 - M1	25 x 22	"	80.1	22	50.5	43
IFC - 25m - R1 - M1	"	Rc 1	84.1	"	"	"

Inch connection (Rc=PT)						Dimension : mm
IFC - 14i - R18 - M1	1/4" x 5/32"	Rc 1/8	34.9	4	17	16
IFC - 14i - R14 - M1	"	Rc 1/4	41.9	"	"	"
IFC - 38i - R18 - M1	3/8" x 1/4"	Rc 1/8	42	8	25	21
IFC - 38i - R14 - M1	"	Rc 1/4	46	"	"	"
IFC - 38i - R38 - M1	"	Rc 3/8	48	"	"	"
IFC - 12i - R18 - M1	1/2" x 3/8"	Rc 1/8	46.7	10	30	25
IFC - 12i - R14 - M1	"	Rc 1/4	50.7	"	"	"
IFC - 12i - R38 - M1	"	Rc 3/8	52.7	"	"	"
IFC - 12i - R12 - M1	"	Rc 1/2	54.7	"	"	"
IFC - 34i - R14 - M1	3/4" x 5/8"	Rc 1/4	60.9	16	40	34
IFC - 34i - R38 - M1	"	Rc 3/8	62.9	"	"	"
IFC - 34i - R12 - M1	"	Rc 1/2	64.9	"	"	"
IFC - 34i - R34 - M1	"	Rc 3/4	69.4	"	"	"
IFC - 1i - R34 - M1	1" x 7/8"	"	80.1	22	50.5	43
IFC - 1i - R1 - M1	"	Rc 1	84.1	"	"	"

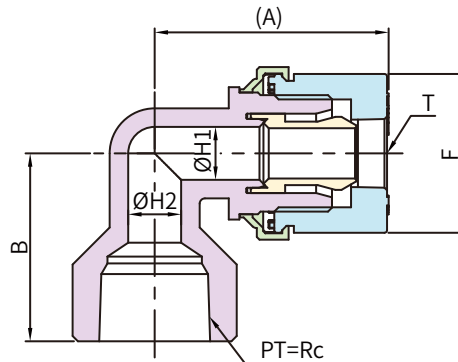
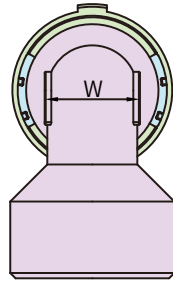
FEMALE CONNECTOR



PART No.	Tube Size	Thread Size	(A)	ØH	F	W
metric connection (N=NPT)						Dimension : mm
IFC - 6m - N18 - M1	6 x 4	NPT 1/8	34.9	4	17	16
IFC - 6m - N14 - M1	"	NPT 1/4	41.9	"	"	"
IFC - 8m - N18 - M1	8 x 6	NPT 1/8	39.2	6	20	18
IFC - 8m - N14 - M1	"	NPT 1/4	43.2	"	"	"
IFC - 8m - N38 - M1	"	NPT 3/8	45.2	"	"	"
IFC - 10m - N18 - M1	10 x 8	NPT 1/8	42	8	25	21
IFC - 10m - N14 - M1	"	NPT 1/4	46	"	"	"
IFC - 10m - N38 - M1	"	NPT 3/8	48	"	"	"
IFC - 12m - N18 - M1	12 x 10	NPT 1/8	46.7	10	30	25
IFC - 12m - N14 - M1	"	NPT 1/4	50.7	"	"	"
IFC - 12m - N38 - M1	"	NPT 3/8	52.7	"	"	"
IFC - 12m - N12 - M1	"	NPT 1/2	54.7	"	"	"
IFC - 19m - N14 - M1	19 x 15.8	NPT 1/4	60.9	16	40	34
IFC - 19m - N38 - M1	"	NPT 3/8	62.9	"	"	"
IFC - 19m - N12 - M1	"	NPT 1/2	64.9	"	"	"
IFC - 19m - N34 - M1	"	NPT 3/4	69.4	"	"	"
IFC - 25m - N34 - M1	25 x 22	NPT 3/4	80.1	22	50.5	43
IFC - 25m - N1 - M1	"	NPT 1	84.1	"	"	"

Inch connection (N=NPT)						Dimension : mm
IFC - 14i - N18 - M1	1/4" x 5/32"	NPT 1/8	34.9	4	17	16
IFC - 14i - N14 - M1	"	NPT 1/4	41.9	"	"	"
IFC - 38i - N18 - M1	3/8" x 1/4"	NPT 1/8	42	8	25	21
IFC - 38i - N14 - M1	"	NPT 1/4	46	"	"	"
IFC - 38i - N38 - M1	"	NPT 3/8	48	"	"	"
IFC - 12i - N18 - M1	1/2" x 3/8"	NPT 1/8	46.7	10	30	25
IFC - 12i - N14 - M1	"	NPT 1/4	50.7	"	"	"
IFC - 12i - N38 - M1	"	NPT 3/8	52.7	"	"	"
IFC - 12i - N12 - M1	"	NPT 1/2	54.7	"	"	"
IFC - 34i - N14 - M1	3/4" x 5/8"	NPT 1/4	60.9	16	40	34
IFC - 34i - N38 - M1	"	NPT 3/8	62.9	"	"	"
IFC - 34i - N12 - M1	"	NPT 1/2	64.9	"	"	"
IFC - 34i - N34 - M1	"	NPT 3/4	69.4	"	"	"
IFC - 1i - N34 - M1	1" x 7/8"	NPT 3/4	80.1	22	50.5	43
IFC - 1i - N1 - M1	"	NPT 1	84.1	"	"	"

FEMALE ELBOW



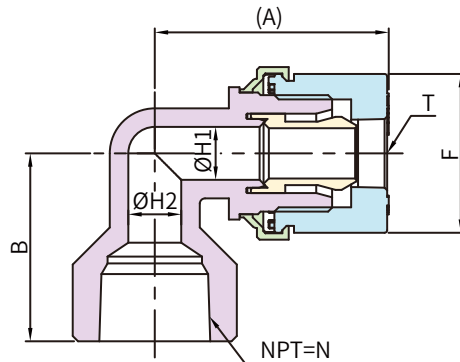
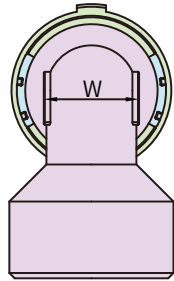
PART No.	Tube Size	Thread Size	(A)	B	ØH1	ØH2	F	W
metric connection (Rc=PT)								Dimension : mm
IFE - 6m - R18 - M1	6 x 4	Rc 1/8	30.4	21.5	4	4	17	9.6
IFE - 6m - R14 - M1	"	Rc 1/4	"	25.5	"	"	"	"
IFE - 8m - R18 - M1	8 x 6	Rc 1/8	33.7	22.5	6	6	20	13
IFE - 8m - R14 - M1	"	Rc 1/4	"	26.5	"	"	"	"
IFE - 8m - R38 - M1	"	Rc 3/8	"	28.5	"	"	"	"
IFE - 10m - R18 - M1	10 x 8	Rc 1/8	37.7	23.7	8	8	25	14.8
IFE - 10m - R14 - M1	"	Rc 1/4	"	27.7	"	"	"	"
IFE - 10m - R38 - M1	"	Rc 3/8	"	29.7	"	"	"	"
IFE - 12m - R18 - M1	12 x 10	Rc 1/8	44.2	25.5	10	8.2	30	18
IFE - 12m - R14 - M1	"	Rc 1/4	"	29.5	"	10	"	"
IFE - 12m - R38 - M1	"	Rc 3/8	"	31.5	"	"	"	"
IFE - 12m - R12 - M1	"	Rc 1/2	"	35.5	"	"	"	"
IFE - 19m - R38 - M1	19 x 15.8	Rc 3/8	56.4	36	16	14.3	40	27
IFE - 19m - R12 - M1	"	Rc 1/2	"	38	"	16	"	"
IFE - 19m - R34 - M1	"	Rc 3/4	"	42.5	"	"	"	"
IFE - 25m - R12 - M1	25 x 22	Rc 1/2	67.7	42.3	22	17.9	50.5	34
IFE - 25m - R34 - M1	"	Rc 3/4	"	46.8	"	22	"	"
IFE - 25m - R1 - M1	"	Rc 1	"	50.8	"	"	"	"

Inch connection (Rc=PT)								Dimension : mm
IFE - 14i - R18 - M1	1/4" x 5/32"	Rc 1/8	30.4	21.5	4	4	17	9.6
IFE - 14i - R14 - M1	"	Rc 1/4	"	25.5	"	"	"	"
IFE - 38i - R18 - M1	3/8" x 1/4"	Rc 1/8	37.7	23.7	8	8	25	14.8
IFE - 38i - R14 - M1	"	Rc 1/4	"	27.7	"	"	"	"
IFE - 38i - R38 - M1	"	Rc 3/8	"	29.7	"	"	"	"
IFE - 12i - R18 - M1	1/2" x 3/8"	Rc 1/8	44.2	25.5	10	8.2	30	18
IFE - 12i - R14 - M1	"	Rc 1/4	"	29.5	"	10	"	"
IFE - 12i - R38 - M1	"	Rc 3/8	"	31.5	"	"	"	"
IFE - 12i - R12 - M1	"	Rc 1/2	"	35.5	"	"	"	"
IFE - 34i - R38 - M1	3/4" x 5/8"	Rc 3/8	56.4	36	16	14.3	40	27
IFE - 34i - R12 - M1	"	Rc 1/2	"	38	"	16	"	"
IFE - 34i - R34 - M1	"	Rc 3/4	"	42.5	"	"	"	"
IFE - 1i - R12 - M1	1" x 7/8"	Rc 1/2	67.7	42.3	22	17.9	50.5	34
IFE - 1i - R34 - M1	"	Rc 3/4	"	46.8	"	22	"	"
IFE - 1i - R1 - M1	"	Rc 1	"	50.8	"	"	"	"

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PART NO. 以外の尺寸 请咨询营业部

FEMALE ELBOW

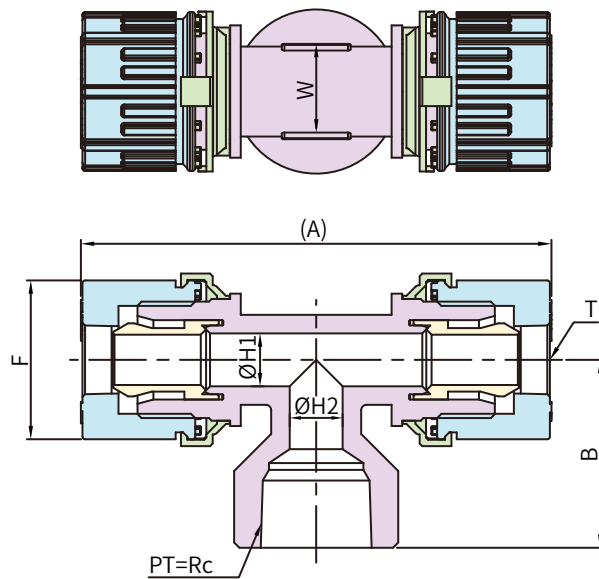


PART No.	Tube Size	Thread Size	(A)	B	ØH1	ØH2	F	W
metric connection (N=NPT)								Dimension : mm
IFE - 6m - N18 - M1	6 x 4	NPT 1/8	30.4	21.5	4	4	17	9.6
IFE - 6m - N14 - M1	"	NPT 1/4	"	25.5	"	"	"	"
IFE - 8m - N18 - M1	8 x 6	NPT 1/8	33.7	22.5	6	6	20	13
IFE - 8m - N14 - M1	"	NPT 1/4	"	26.5	"	"	"	"
IFE - 8m - N38 - M1	"	NPT 3/8	"	28.5	"	"	"	"
IFE - 10m - N18 - M1	10 x 8	NPT 1/8	37.7	23.7	8	8	25	14.8
IFE - 10m - N14 - M1	"	NPT 1/4	"	27.7	"	"	"	"
IFE - 10m - N38 - M1	"	NPT 3/8	"	29.7	"	"	"	"
IFE - 12m - N18 - M1	12 x 10	NPT 1/8	44.2	25.5	10	8.2	30	18
IFE - 12m - N14 - M1	"	NPT 1/4	"	29.5	"	10	"	"
IFE - 12m - N38 - M1	"	NPT 3/8	"	31.5	"	"	"	"
IFE - 12m - N12 - M1	"	NPT 1/2	"	35.5	"	"	"	"
IFE - 19m - N38 - M1	19 x 15.8	NPT 3/8	56.4	36	16	14.3	40	27
IFE - 19m - N12 - M1	"	NPT 1/2	"	38	"	16	"	"
IFE - 19m - N34 - M1	"	NPT 3/4	"	42.5	"	"	"	"
IFE - 25m - N12 - M1	25 x 22	NPT 1/2	67.7	42.3	22	17.9	50.5	34
IFE - 25m - N34 - M1	"	NPT 3/4	"	46.8	"	22	"	"
IFE - 25m - N1 - M1	"	NPT 1	"	50.8	"	"	"	"

Inch connection (N=NPT)								Dimension : mm
IFE - 14i - N18 - M1	1/4" x 5/32"	NPT 1/8	30.4	21.5	4	4	17	9.6
IFE - 14i - N14 - M1	"	NPT 1/4	"	25.5	"	"	"	"
IFE - 38i - N18 - M1	3/8" x 1/4"	NPT 1/8	37.7	23.7	8	8	25	14.8
IFE - 38i - N14 - M1	"	NPT 1/4	"	27.7	"	"	"	"
IFE - 38i - N38 - M1	"	NPT 3/8	"	29.7	"	"	"	"
IFE - 12i - N18 - M1	1/2" x 3/8"	NPT 1/8	44.2	25.5	10	8.2	30	18
IFE - 12i - N14 - M1	"	NPT 1/4	"	29.5	"	10	"	"
IFE - 12i - N38 - M1	"	NPT 3/8	"	31.5	"	"	"	"
IFE - 12i - N12 - M1	"	NPT 1/2	"	35.5	"	"	"	"
IFE - 34i - N38 - M1	3/4" x 5/8"	NPT 3/8	56.4	36	16	14.3	40	27
IFE - 34i - N12 - M1	"	NPT 1/2	"	38	"	16	"	"
IFE - 34i - N34 - M1	"	NPT 3/4	"	42.5	"	"	"	"
IFE - 1i - N12 - M1	1" x 7/8"	NPT 1/2	67.7	42.3	22	17.9	50.5	34
IFE - 1i - N34 - M1	"	NPT 3/4	"	46.8	"	22	"	"
IFE - 1i - N1 - M1	"	NPT 1	"	50.8	"	"	"	"

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PART NO. 以外の尺寸 请咨询营业部

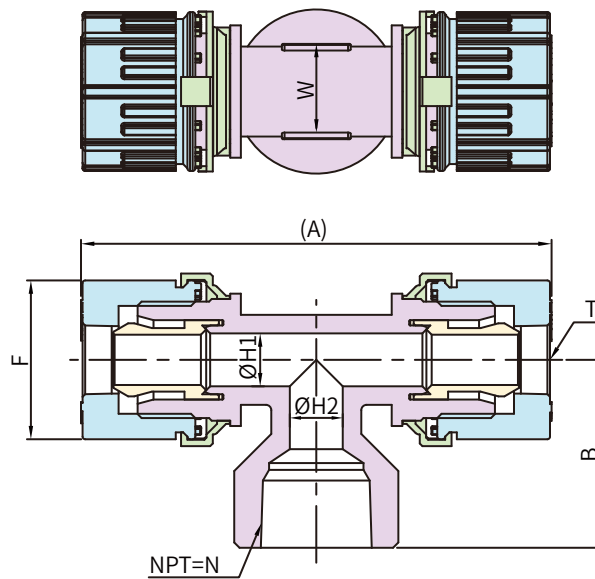


PART No.	Tube Size	Thread Size	(A)	B	ØH1	ØH2	F	W
metric connection (Rc=PT) Dimension : mm								
IFT - 6m - R18 - M1	6 x 4	Rc 1/8	60.8	21.5	4	4	17	9.6
IFT - 6m - R14 - M1	"	Rc 1/4	"	25.5	"	"	"	"
IFT - 8m - R18 - M1	8 x 6	Rc 1/8	67.4	22.5	6	6	20	13
IFT - 8m - R14 - M1	"	Rc 1/4	"	26.5	"	"	"	"
IFT - 8m - R38 - M1	"	Rc 3/8	"	28.5	"	"	"	"
IFT - 10m - R18 - M1	10 x 8	Rc 1/8	75.8	23.8	8	8	25	14.8
IFT - 10m - R14 - M1	"	Rc 1/4	"	27.8	"	"	"	"
IFT - 10m - R38 - M1	"	Rc 3/8	"	29.8	"	"	"	"
IFT - 12m - R14 - M1	12 x 10	Rc 1/4	88.9	29.5	10	10	30	18
IFT - 12m - R38 - M1	"	Rc 3/8	"	31.5	"	"	"	"
IFT - 12m - R12 - M1	"	Rc 1/2	"	35.5	"	"	"	"
IFT - 19m - R38 - M1	19 x 15.8	Rc 3/8	112.8	36	16	14.3	40	27
IFT - 19m - R12 - M1	"	Rc 1/2	"	38	"	16	"	"
IFT - 19m - R34 - M1	"	Rc 3/4	"	42.5	"	"	"	"
IFT - 25m - R12 - M1	25 x 22	Rc 1/2	135.8	"	22	17.9	50.5	34
IFT - 25m - R34 - M1	"	Rc 3/4	"	47	"	22	"	"
IFT - 25m - R1 - M1	"	Rc 1	"	51	"	"	"	"

Inch connection (Rc=PT) Dimension : mm								
IFT - 14i - R18 - M1	1/4" x 5/32"	Rc 1/8	60.8	21.5	4	4	17	9.6
IFT - 14i - R14 - M1	"	Rc 1/4	"	25.5	"	"	"	"
IFT - 38i - R18 - M1	3/8" x 1/4"	Rc 1/8	75.8	23.8	8	8	25	14.8
IFT - 38i - R14 - M1	"	Rc 1/4	"	27.8	"	"	"	"
IFT - 38i - R38 - M1	"	Rc 3/8	"	29.8	"	"	"	"
IFT - 12i - R14 - M1	1/2" x 3/8"	Rc 1/4	88.9	29.5	10	10	30	18
IFT - 12i - R38 - M1	"	Rc 3/8	"	31.5	"	"	"	"
IFT - 12i - R12 - M1	"	Rc 1/2	"	35.5	"	"	"	"
IFT - 34i - R38 - M1	3/4" x 5/8"	Rc 3/8	112.8	36	16	14.3	40	27
IFT - 34i - R12 - M1	"	Rc 1/2	"	38	"	16	"	"
IFT - 34i - R34 - M1	"	Rc 3/4	"	42.5	"	"	"	"
IFT - 1i - R12 - M1	1" x 7/8"	Rc 1/2	135.8	"	22	17.9	50.5	34
IFT - 1i - R34 - M1	"	Rc 3/4	"	47	"	22	"	"
IFT - 1i - R1 - M1	"	Rc 1	"	51	"	"	"	"

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PART NO. 以外の尺寸 请咨询营业部



PART No.	Tube Size	Thread Size	(A)	B	ØH1	ØH2	F	W
metric connection (N=NPT) Dimension : mm								
IFT - 6m - N18 - M1	6 x 4	NPT 1/8	60.8	21.5	4	4	17	9.6
IFT - 6m - N14 - M1	"	NPT 1/4	"	25.5	"	"	"	"
IFT - 8m - N18 - M1	8 x 6	NPT 1/8	67.4	22.5	6	6	20	13
IFT - 8m - N14 - M1	"	NPT 1/4	"	26.5	"	"	"	"
IFT - 8m - N38 - M1	"	NPT 3/8	"	28.5	"	"	"	"
IFT - 10m - N18 - M1	10 x 8	NPT 1/8	75.8	23.8	8	8	25	14.8
IFT - 10m - N14 - M1	"	NPT 1/4	"	27.8	"	"	"	"
IFT - 10m - N38 - M1	"	NPT 3/8	"	29.8	"	"	"	"
IFT - 12m - N14 - M1	12 x 10	NPT 1/4	88.9	29.5	10	10	30	18
IFT - 12m - N38 - M1	"	NPT 3/8	"	31.5	"	"	"	"
IFT - 12m - N12 - M1	"	NPT 1/2	"	35.5	"	"	"	"
IFT - 19m - N38 - M1	19 x 15.8	NPT 3/8	112.8	36	16	14.3	40	27
IFT - 19m - N12 - M1	"	NPT 1/2	"	38	"	16	"	"
IFT - 19m - N34 - M1	"	NPT 3/4	"	42.5	"	"	"	"
IFT - 25m - N12 - M1	25 x 22	NPT 1/2	135.8	"	22	17.9	50.5	34
IFT - 25m - N34 - M1	"	NPT 3/4	"	47	"	22	"	"
IFT - 25m - N1 - M1	"	NPT 1	"	51	"	"	"	"

Inch connection (N=NPT) Dimension : mm								
IFT - 14i - N18 - M1	1/4" x 5/32"	NPT 1/8	60.8	21.5	4	4	17	9.6
IFT - 14i - N14 - M1	"	NPT 1/4	"	25.5	"	"	"	"
IFT - 38i - N18 - M1	3/8" x 1/4"	NPT 1/8	75.8	23.8	8	8	25	14.8
IFT - 38i - N14 - M1	"	NPT 1/4	"	27.8	"	"	"	"
IFT - 38i - N38 - M1	"	NPT 3/8	"	29.8	"	"	"	"
IFT - 12i - N14 - M1	1/2" x 3/8"	NPT 1/4	88.9	29.5	10	10	30	18
IFT - 12i - N38 - M1	"	NPT 3/8	"	31.5	"	"	"	"
IFT - 12i - N12 - M1	"	NPT 1/2	"	35.5	"	"	"	"
IFT - 34i - N38 - M1	3/4" x 5/8"	NPT 3/8	112.8	36	16	14.3	40	27
IFT - 34i - N12 - M1	"	NPT 1/2	"	38	"	16	"	"
IFT - 34i - N34 - M1	"	NPT 3/4	"	42.5	"	"	"	"
IFT - 1i - N12 - M1	1" x 7/8"	NPT 1/2	135.8	"	22	17.9	50.5	34
IFT - 1i - N34 - M1	"	NPT 3/4	"	47	"	22	"	"
IFT - 1i - N1 - M1	"	NPT 1	"	51	"	"	"	"

•PART NO. 외에 사이즈는 영업부에 문의하여 주시기 바랍니다

PART NO. 以外の尺寸 请咨询营业部



03

Tube to Tube

UNION CONNECTOR

UNION ELBOW

UNION TEE

REDUCING UNION CONNECTOR

REDUCING UNION ELBOW

REDUCING UNION TEE

PANEL MOUNT UNION CONNECTOR

PANEL MOUNT REDUCING UNION CONNECTOR

PANEL MOUNT NUT

UNION CONNECTOR

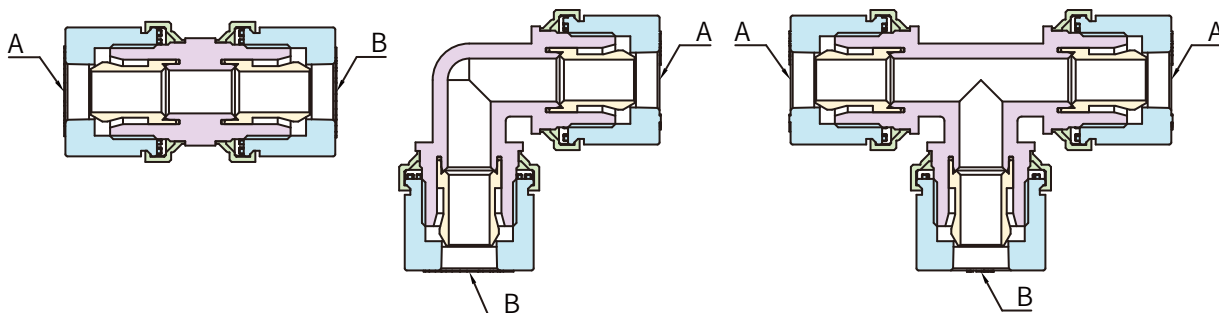
UNION ELBOW

UNION TEE

REDUCING UNION CONNECTOR

REDUCING UNION ELBOW

REDUCING UNION TEE



IUC - 12i - 38i - M1

M1 : Mega Lock Type (사출射出)

Tube Size : B (i=inch/m=mm)

Tube Size : A (i=inch/m=mm)

IUC : Innodis Union Connector

IUE : Innodis Union Elbow

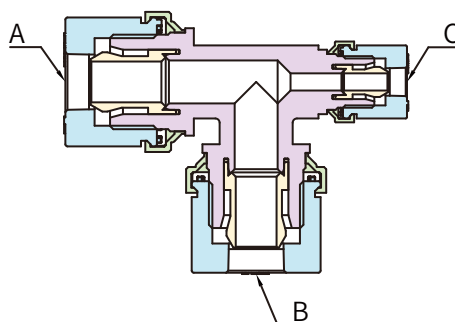
IUT : Innodis Union Tee

IRUC : Innodis Reducing Union Connector

IRUE : Innodis Reducing Union Elbow

IRUT : Innodis Reducing Union Tee

REDUCING UNION TEE



IRUT - 12i - 12i - 38i - M1

M1 : Mega Lock Type (사출射出)

Tube Size : C (i=inch/m=mm)

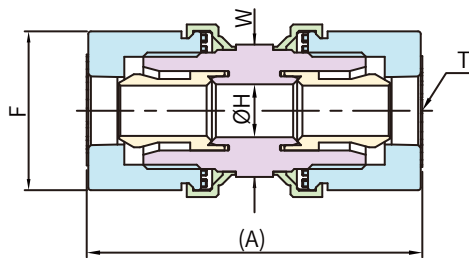
Tube Size : B (i=inch/m=mm)

Tube Size : A (i=inch/m=mm)

IRUT : Innodis Reducing Union Tee

IUC

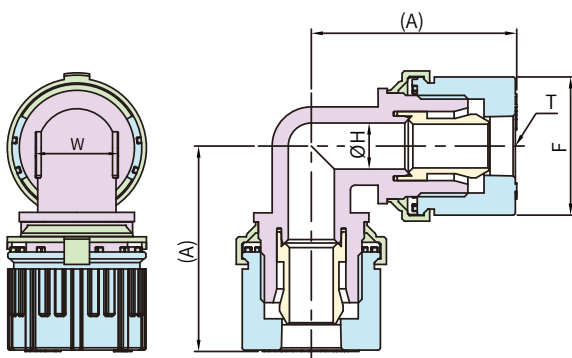
UNION CONNECTOR



PART No.	Tube Size	(A)	ØH	F	W
metric connection		Dimension : mm			
IUC - 3m - 3m - M1	3 x 2	38	3	12.8	12
IUC - 4m - 4m - M1	4 x 3	"	"	"	"
IUC - 6m - 6m - M1	6 x 4	44.6	4	17	16
IUC - 8m - 8m - M1	8 x 6	48.4	6	20	18
IUC - 10m - 10m - M1	10 x 8	54	8	25	21
IUC - 12m - 12m - M1	12 x 10	63.4	10	30	25
IUC - 19m - 19m - M1	19 x 15.8	80.8	16	40	34
IUC - 25m - 25m - M1	25 x 22	98	22	50.5	43
Inch connection		Dimension : mm			
IUC - 18i - 18i - M1	1/8"x0.086"	38	3	12.8	12
IUC - 14i - 14i - M1	1/4"x5/32"	44.6	4	17	16
IUC - 38i - 38i - M1	3/8" x 1/4"	54	8	25	21
IUC - 12i - 12i - M1	1/2" x 3/8"	63.4	10	30	25
IUC - 34i - 34i - M1	3/4" x 5/8"	80.8	16	40	34
IUC - 1i - 1i - M1	1" x 7/8"	98	22	50.5	43

IUE

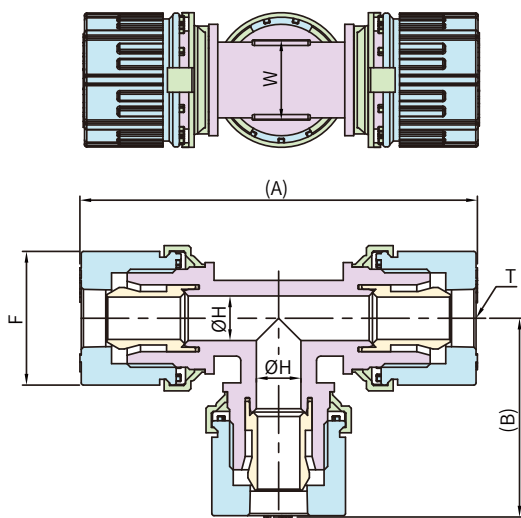
UNION ELBOW



PART No.	Tube Size	(A)	ØH	F	W
metric connection		Dimension : mm			
IUE - 3m - 3m - M1	3 x 2	24.1	3	12.8	7
IUE - 4m - 4m - M1	4 x 3	"	"	"	"
IUE - 6m - 6m - M1	6 x 4	30.3	4	17	9.6
IUE - 8m - 8m - M1	8 x 6	33.7	6	20	13
IUE - 10m - 10m - M1	10 x 8	37.7	8	25	14.8
IUE - 12m - 12m - M1	12 x 10	44.2	10	30	18
IUE - 19m - 19m - M1	19 x 15.8	56.4	16	40	27
IUE - 25m - 25m - M1	25 x 22	67.7	22	50.5	34
Inch connection		Dimension : mm			
IUE - 18i - 18i - M1	1/8"x0.086"	24.1	3	12.8	7
IUE - 14i - 14i - M1	1/4"x5/32"	30.3	4	17	9.6
IUE - 38i - 38i - M1	3/8" x 1/4"	37.7	8	25	14.8
IUE - 12i - 12i - M1	1/2" x 3/8"	44.2	10	30	18
IUE - 34i - 34i - M1	3/4" x 5/8"	56.4	16	40	27
IUE - 1i - 1i - M1	1" x 7/8"	67.7	22	50.5	34

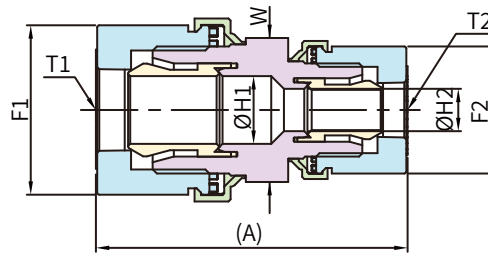
IUT

UNION TEE



PART No.	Tube Size	(A)	(B)	ØH	F	W
metric connection		Dimension : mm				
IUT - 3m - 3m - M1	3 x 2	48.1	24.1	3	12.8	7
IUT - 4m - 4m - M1	4 x 3	//	//	//	//	//
IUT - 6m - 6m - M1	6 x 4	60.6	30.3	4	17	9.6
IUT - 8m - 8m - M1	8 x 6	67.4	33.7	6	20	13
IUT - 10m - 10m - M1	10 x 8	75.8	37.8	8	25	14.8
IUT - 12m - 12m - M1	12 x 10	88.9	44.2	10	30	18
IUT - 19m - 19m - M1	19 x 15.8	112.8	56.4	16	40	27
IUT - 25m - 25m - M1	25 x 22	135.8	67.9	22	50.5	34
Inch connection		Dimension : mm				
IUT - 18i - 18i - M1	1/8x0.086"	48.1	24.1	3	12.8	7
IUT - 14i - 14i - M1	1/4" x5/32"	60.6	30.3	4	17	9.6
IUT - 38i - 38i - M1	3/8" x 1/4"	75.8	37.8	8	25	14.8
IUT - 12i - 12i - M1	1/2" x3/8"	88.9	44.2	10	30	18
IUT - 34i - 34i - M1	3/4"x5/8"	112.8	56.4	16	40	27
IUT - 1i - 1i - M1	1" x7/8"	135.8	67.9	22	50.5	34

REDUCING UNION CONNECTOR



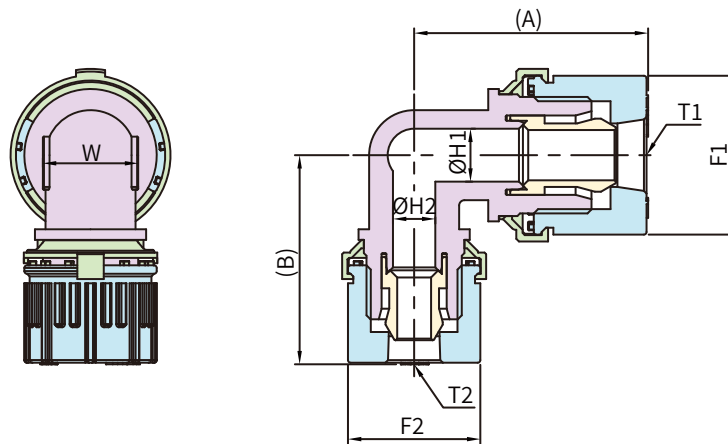
PART No.	Tube Size T1	Tube Size T2	(A)	ØH1	ØH2	F1	F2	W
metric connection Dimension : mm								
IRUC - 6m - 3m - M1	6 x 4	3 x 2	38.75	4	3	17	12.7	16
IRUC - 6m - 4m - M1	"	4 x 3	"	"	"	"	"	"
IRUC - 8m - 6m - M1	8 x 6	6 x 4	46.6	6	4	20	17	18
IRUC - 10m - 6m - M1	10 x 8	"	49.4	8	"	25	"	21
IRUC - 12m - 6m - M1	12 x 10	"	54.1	10	"	30	"	25
IRUC - 12m - 8m - M1	"	8 x 6	55.9	"	6	"	20	"
IRUC - 12m - 10m - M1	"	10 x 8	58.7	"	8	"	25	"
IRUC - 19m - 10m - M1	19 x 15.8	"	68.9	16	"	40	"	34
IRUC - 19m - 12m - M1	"	12 x 10	73.6	"	10	"	30	"
IRUC - 25m - 12m - M1	25 x 22	"	84.3	22	"	50.5	"	43
IRUC - 25m - 19m - M1	"	19 x 15.8	91.5	"	16	"	40	"

Inch connection Dimension : mm								
IRUC - 14i - 18i - M1	1/4" x 5/32"	1/8" x 0.086"	38.75	4	3	17	12.7	16
IRUC - 8m - 14i - M1	8 x 6	1/4" x 5/32"	46.6	6	4	20	17	18
IRUC - 38i - 14i - M1	3/8" x 1/4"	"	49.4	8	"	25	"	21
IRUC - 12i - 14i - M1	1/2" x 3/8"	"	54.1	10	"	30	"	25
IRUC - 12i - 38i - M1	"	3/8" x 1/4"	58.7	"	8	"	25	"
IRUC - 34i - 38i - M1	3/4" x 5/8"	"	68.9	16	"	40	"	34
IRUC - 34i - 12i - M1	"	1/2" x 3/8"	73.6	"	10	"	30	"
IRUC - 1i - 12i - M1	1" x 7/8"	"	84.3	22	"	50.5	"	43
IRUC - 1i - 34i - M1	"	3/4" x 5/8"	91.5	"	16	"	40	"

•PART NO. 외에 사이즈는 영업부에 문의하여 주시기 바랍니다

PART NO. 以外の尺寸 请咨询营业部

REDUCING UNION ELBOW

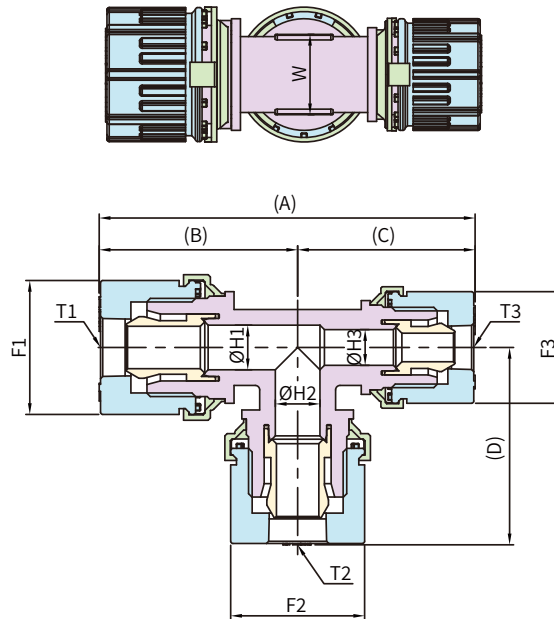


PART No.	Tube Size T1	Tube Size T2	(A)	(B)	ØH1	ØH2	F1	F2	W
metric connection Dimension : mm									
IRUE - 6m - 3m - M1	6 x 4	3 x 2	30.4	22.35	4	3	17	12.7	9.6
IRUE - 6m - 4m - M1	"	4 x 3	"	"	"	"	"	"	"
IRUE - 8m - 6m - M1	8 x 6	6 x 4	33.7	31.9	6	4	20	17	13
IRUE - 10m - 6m - M1	10 x 8	"	37.7	33.1	8	"	25	"	14.8
IRUE - 12m - 6m - M1	12 x 10	"	44.2	34.9	10	"	30	"	18
IRUE - 12m - 10m - M1	"	10 x 8	"	39.5	"	8	"	25	"
IRUE - 19m - 10m - M1	19 x 15.8	"	56.4	44	16	"	40	"	27
IRUE - 19m - 12m - M1	"	12 x 10	"	48.7	"	10	"	30	"
IRUE - 25m - 12m - M1	25 x 22	"	67.7	53	22	"	50.5	"	34
IRUE - 25m - 19m - M1	"	19 x 15.8	"	60.7	"	16	"	40	"
Inch connection Dimension : mm									
IRUE - 14i - 18i - M1	1/4" x 5/32"	1/8" x 0.086"	30.4	22.35	4	3	17	12.7	9.6
IRUE - 8m - 14i - M1	8 x 6	1/4" x 5/32"	33.7	31.9	6	4	20	17	13
IRUE - 38i - 14i - M1	3/8" x 1/4"	"	37.7	33.1	8	"	25	"	14.8
IRUE - 12i - 14i - M1	1/2" x 3/8"	"	44.2	34.9	10	"	30	"	18
IRUE - 12i - 38i - M1	"	3/8" x 1/4"	"	39.5	"	8	"	25	"
IRUE - 34i - 38i - M1	3/4" x 5/8"	"	56.4	44	16	8	40	"	27
IRUE - 34i - 12i - M1	"	1/2" x 3/8"	"	48.7	"	10	"	30	"
IRUE - 1i - 12i - M1	1" x 7/8"	"	67.7	53	22	"	50.5	"	34
IRUE - 1i - 34i - M1	"	3/4" x 5/8"	"	60.7	"	16	"	40	"

•PART NO. 외에 사이즈는 영업부에 문의하여 주시기 바랍니다

PART NO. 以外の尺寸 请咨询营业部

REDUCING UNION TEE



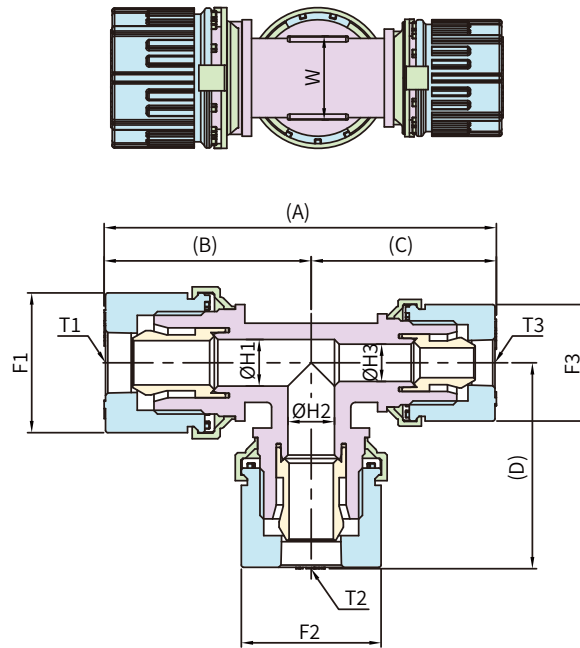
■ metric tube type

PART No.	Tube Size T1	Tube Size T2	Tube Size T3	(A)	(B)	(C)	(D)	ØH1	ØH2	ØH3	F1	F2	F3	W
metric connection											Dimension : mm			
IRUT - 3m - 6m - M1	3 x 2	6 x 4	3 x 2	57.7	28.8	28.8	34.5	3	4	3	12.8	17	12.8	10
IRUT - 4m - 6m - M1	4 x 3	"	4 x 3	"	"	"	"	"	"	"	"	"	"	"
IRUT - 6m - 3m - M1	6 x 4	3 x 2	6 x 4	60.8	30.4	30.4	22.35	4	3	4	17	12.8	17	9.6
IRUT - 6m - 4m - M1	"	4 x 3	"	"	"	"	"	"	"	"	"	"	"	"
IRUT - 6m - 10m - M1	"	10 x 8	"	66.8	33.4	33.4	38	"	8	"	"	25	"	14.8
IRUT - 6m - 12m - M1	"	12 x 10	"	70.8	35.4	35.4	44.7	"	10	"	"	30	"	18
IRUT - 8m - 6m - M1	8 x 6	6 x 4	8 x 6	67.4	33.7	33.7	31.9	6	4	6	20	17	20	13
IRUT - 10m - 6m - M1	10 x 8	"	10 x 8	75.8	37.9	37.9	33.2	8	"	8	25	"	25	14.8
IRUT - 10m - 12m - M1	"	12 x 10	"	79.8	39.9	39.9	44.5	"	10	"	"	30	"	18
IRUT - 12m - 6m - M1	12 x 10	6 x 4	12 x 10	88.9	44.45	44.45	34.9	10	4	10	30	17	30	"
IRUT - 12m - 10m - M1	"	10 x 8	"	"	"	"	39.5	"	8	"	"	25	"	"
IRUT - 12m - 19m - M1	"	19 x 15.8	"	98.4	49.2	49.2	56.9	"	16	"	"	40	"	27
IRUT - 19m - 6m - M1	19 x 15.8	6 x 4	19 x 15.8	112.8	56.4	56.4	39.4	16	4	16	40	17	40	"
IRUT - 19m - 10m - M1	"	10 x 8	"	"	"	"	44	"	8	"	"	25	"	"
IRUT - 19m - 12m - M1	"	12 x 10	"	"	"	"	48.7	"	10	"	"	30	"	"
IRUT - 19m - 25m - M1	"	25 x 22	"	121.8	60.9	60.9	67.9	"	22	"	"	50.5	"	34
IRUT - 25m - 12m - M1	25 x 22	12 x 10	25 x 22	135.8	67.9	67.9	53.2	22	10	22	50.5	30	50.5	"
IRUT - 25m - 19m - M1	"	19 x 15.8	"	"	"	"	60.9	"	16	"	"	40	"	"
IRUT - 10m - 6m - 6m - M1	10 x 8	6 x 4	6 x 4	71.2	37.9	33.3	33.2	8	4	4	25	17	17	14.8
IRUT - 12m - 10m - 10m - M1	12 x 10	10 x 8	10 x 8	84.2	44.45	39.75	39.5	10	8	8	30	25	25	18
IRUT - 12m - 12m - 10m - M1	"	12 x 10	"	"	"	"	44.2	"	10	"	"	30	"	"
IRUT - 19m - 12m - 12m - M1	19 x 15.8	"	12 x 10	105.1	56.4	48.7	48.7	16	"	10	40	"	30	27
IRUT - 19m - 19m - 12m - M1	"	19 x 15.8	"	"	"	"	56.4	"	16	"	"	40	"	"
IRUT - 25m - 25m - 12m - M1	25 x 22	25 x 22	"	121.1	67.9	53.2	67.9	22	22	10	50.5	50.5	30	30
IRUT - 25m - 25m - 19m - M1	"	"	19 x 15.8	128.8	"	60.9	"	"	"	16	"	"	40	34

•PART NO. 외에 사이즈는 영업부에 문의하여 주시기 바랍니다

PART NO. 以外の尺寸 请咨询营业部

REDUCING UNION TEE



■ inch tube type

PART No.	Tube Size T1	Tube Size T2	Tube Size T3	(A)	(B)	(C)	(D)	ØH1	ØH2	ØH3	F1	F2	F3	W
Inch connection											Dimension : mm			
IRUT - 18i - 14i - M1	1/8" x 0.086"	1/4" x 5/32"	1/8" x 0.086"	57.7	28.8	28.8	34.5	3	4	3	12.8	17	12.8	10
IRUT - 14i - 18i - M1	1/4" x 5/32"	1/8" x 0.086"	1/4" x 5/32"	60.8	30.4	30.4	22.35	4	3	4	17	12.7	17	9.6
IRUT - 14i - 38i - M1	"	3/8" x 1/4"	"	66.8	33.4	33.4	38	"	8	"	"	25	"	14.8
IRUT - 14i - 12i - M1	"	1/2" x 3/8"	"	70.8	35.4	35.4	44.7	"	10	"	"	30	"	18
IRUT - 8m - 14i - M1	8 x 6	1/4" x 5/32"	8 x 6	67.4	33.7	33.7	31.9	6	4	6	20	17	20	13
IRUT - 38i - 14i - M1	3/8" x 1/4"	"	3/8" x 1/4"	75.8	37.9	37.9	33.2	8	"	8	25	"	25	14.8
IRUT - 38i - 12i - M1	"	1/2" x 3/8"	"	79.8	39.9	39.9	44.5	"	10	"	"	30	"	18
IRUT - 12i - 14i - M1	1/2" x 3/8"	1/4" x 5/32"	1/2" x 3/8"	88.9	44.45	44.45	34.9	10	4	10	30	17	30	"
IRUT - 12i - 38i - M1	"	3/8" x 1/4"	"	"	"	"	39.5	"	8	"	"	25	"	"
IRUT - 12i - 34i - M1	"	3/4" x 5/8"	"	98.4	49.2	49.2	56.9	"	16	"	"	40	"	27
IRUT - 34i - 14i - M1	3/4" x 5/8"	1/4" x 5/32"	3/4" x 5/8"	112.8	56.4	56.4	39.4	16	4	16	40	17	40	"
IRUT - 34i - 38i - M1	"	3/8" x 1/4"	"	"	"	"	44	"	8	"	"	25	"	"
IRUT - 34i - 12i - M1	"	1/2" x 3/8"	"	"	"	"	48.7	"	10	"	"	30	"	"
IRUT - 34i - 1i - M1	"	1" x 7/8"	"	121.8	60.9	60.9	67.9	"	22	"	"	50.5	"	34
IRUT - 1i - 12i - M1	1" x 7/8"	1/2" x 3/8"	1" x 7/8"	135.8	67.9	67.9	53.2	22	10	22	50.5	30	50.5	"
IRUT - 1i - 34i - M1	"	3/4" x 5/8"	"	"	"	"	60.9	"	16	"	"	40	"	"
IRUT - 38i - 14i - 14i - M1	3/8" x 1/4"	1/4" x 5/32"	1/4" x 5/32"	71.2	37.9	33.3	33.2	8	4	4	25	17	17	14.8
IRUT - 12i - 38i - 38i - M1	1/2" x 3/8"	3/8" x 1/4"	3/8" x 1/4"	84.2	44.45	39.75	39.5	10	8	8	30	25	25	18
IRUT - 12i - 12i - 38i - M1	"	1/2" x 3/8"	"	"	"	"	44.2	"	10	"	"	30	"	"
IRUT - 34i - 12i - 12i - M1	3/4" x 5/8"	"	1/2" x 3/8"	105.1	56.4	48.7	48.7	16	10	10	40	30	30	27
IRUT - 34i - 34i - 12i - M1	"	3/4" x 5/8"	"	"	"	"	56.4	"	16	"	"	40	"	"
IRUT - 1i - 1i - 12i - M1	1" x 7/8"	1" x 7/8"	1/2" x 3/8"	121.1	67.9	53.2	67.9	22	22	10	50.5	50.5	30	30
IRUT - 1i - 1i - 34i - M1	"	"	3/4" x 5/8"	128.8	"	60.9	"	"	"	16	"	"	40	34

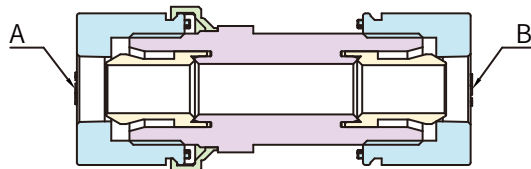
•PART NO. 외에 사이즈는 영업부에 문의하여 주시기 바랍니다

PART NO. 以外の尺寸 请咨询营业部

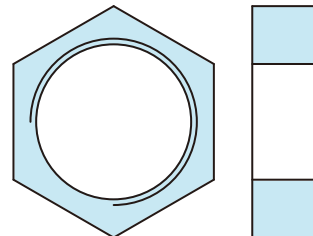
PANEL MOUNT

PANEL MOUNT UNION CONNECTOR

PANEL MOUNT REDUCING UNION CONNECTOR



PANEL MOUNT NUT



IPMUC - 12i - 12i - M1

M1 : Mega Lock Type (사출射出)

Tube Size : B (i=inch/m=mm)

Tube Size : A (i=inch/m=mm)

IPMUC : Innodis Panel Mount Union Connector

IPMRUC : Innodis Panel Mount Reducing Union Connector

IPM - N12i - MP

MP: PP (가공加工)

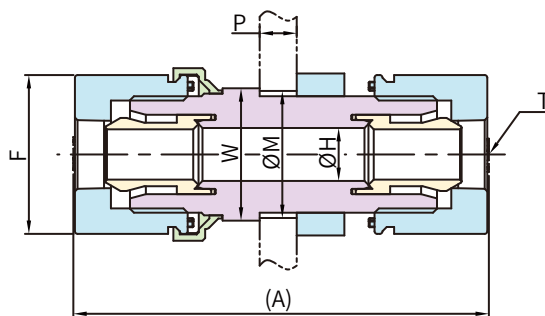
N: Nut

Tube Size : i=inch/m=mm

IPM : Panel Mount

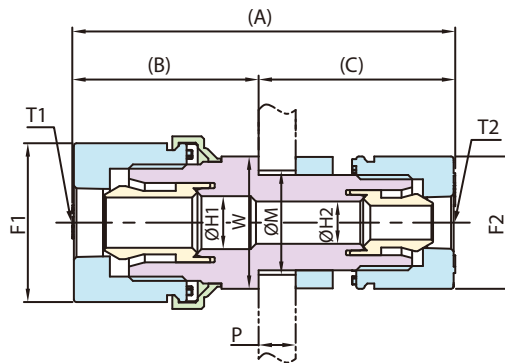
IPMUC

PANEL MOUNT UNION CONNECTOR



PART No.	Tube Size	(A)	ØH	F	MAX P	ØM	W
metric connection							Dimension : mm
IPMUC - 6m - 6m - M1	6 x 4	56	4	17	7	12.5	16
IPMUC - 8m - 8m - M1	8 x 6	62.7	6	20	"	15.5	18
IPMUC - 10m - 10m - M1	10 x 8	67.7	8	25	"	18.5	21
IPMUC - 12m - 12m - M1	12 x 10	78.5	10	30	"	22.5	25
IPMUC - 19m - 19m - M1	19 x 15.8	96.5	16	40	"	30.5	34
IPMUC - 25m - 25m - M1	25 x 22	120	22	50.5	10	40.5	43
Inch connection							Dimension : mm
IPMUC - 14i - 14i - M1	1/4" x 5/32"	56	4	17	7	12.5	16
IPMUC - 38i - 38i - M1	3/8" x 1/4"	67.7	8	25	"	18.5	21
IPMUC - 12i - 12i - M1	1/2" x 3/8"	78.5	10	30	"	22.5	25
IPMUC - 34i - 34i - M1	3/4" x 5/8"	96.5	16	40	"	30.5	34
IPMUC - 1i - 1i - M1	1" x 7/8"	120	22	50.5	10	40.5	43

PANEL MOUNT REDUCING UNION CONNECTOR



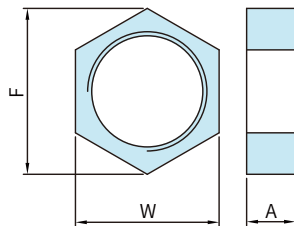
PART No.	Tube Size T1	Tube Size T2	(A)	(B)	(C)	ØH1	ØH2	F1	F2	MAX P	ØM	W
metric connection											Dimension : mm	
IPMRUC - 6m - 3m - M1	6 x 4	3 x 2	51.75	25.85	31.1	4	3	17	12.7	7	10.5	16
IPMRUC - 6m - 4m - M1	"	4 x 3	"	"	"	"	"	"	"	"	"	"
IPMRUC - 8m - 6m - M1	8 x 6	6 x 4	57.8	27.7	30.1	6	4	20	17	"	12.5	18
IPMRUC - 10m - 6m - M1	10 x 8	"	60.6	30.5	"	8	"	25	"	"	"	21
IPMRUC - 12m - 10m - M1	12 x 10	10 x 8	72.3	35.2	37.1	10	8	30	25	"	18.5	25
IPMRUC - 19m - 12m - M1	19 x 15.8	12 x 10	88.7	45.4	43.3	16	10	40	30	"	22.5	34
IPMRUC - 25m - 19m - M1	25 x 22	19 x 15.8	107.2	56.1	51.1	22	16	50.5	40	"	30.5	43
Inch connection											Dimension : mm	
IPMRUC - 14i - 18i - M1	1/4" x 5/32"	1/8" x 0.086"	51.75	25.85	31.1	4	3	17	12.7	7	10.5	16
IPMRUC - 8m - 14i - M1	8 x 6	1/4" x 5/32"	57.8	27.7	30.1	6	4	20	17	"	12.5	18
IPMRUC - 38i - 14i - M1	3/8" x 1/4"	"	60.6	30.5	"	8	"	25	"	"	"	21
IPMRUC - 12i - 38i - M1	1/2" x 3/8"	3/8" x 1/4"	72.3	35.2	37.1	10	8	30	25	"	18.5	25
IPMRUC - 34i - 12i - M1	3/4" x 5/8"	1/2" x 3/8"	88.7	45.4	43.3	16	10	40	30	"	22.5	34
IPMRUC - 1i - 34i - M1	1" x 7/8"	3/4" x 5/8"	107.2	56.1	51.1	22	16	50.5	40	"	30.5	43

•PART NO. 외에 사이즈는 영업부에 문의하여 주시기 바랍니다

PART NO. 以外の尺寸 请咨询营业部

IPM

PANEL MOUNT NUT



PART No.	Tube Size	A	W	F
metric connection				
Dimension : mm				
IPM - N6m - MP	6 x 4	5	16	18.5
IPM - N8m - MP	8 x 6	7	19	22
IPM - N10m - MP	10 x 8	"	21.5	24.8
IPM - N12m - MP	12 x 10	9	26.5	30.6
IPM - N19m - MP	19 x 15.8	"	38	43.9
IPM - N25m - MP	25 x 22	10	45	52
Inch connection				
Dimension : mm				
IPM - N14i - MP	1/4" x 5/32"	5	16	18.5
IPM - N38i - MP	3/8" x 1/4"	7	21.5	24.8
IPM - N12i - MP	1/2" x 3/8"	9	26.5	30.6
IPM - N34i - MP	3/4" x 5/8"	"	38	43.9
IPM - N1i - MP	1" x 7/8"	10	45	52



04

Space saver

UNION CONNECTOR ADAPTOR

UNION ELBOW ADAPTOR

UNION TEE ADAPTOR

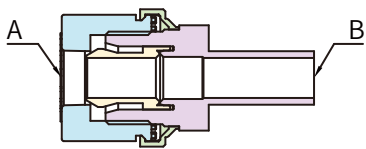
ELBOW ADAPTOR

TEE ADAPTOR

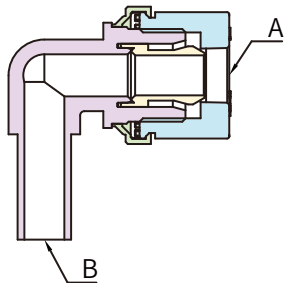
MALE CONNECTOR (FERRULE TYPE)

UNION ADAPTOR

UNION CONNECTOR ADAPTOR
(TUBE END)



UNION ELBOW ADAPTOR
(TUBE END)



IUCA - 12i - 12T - M1

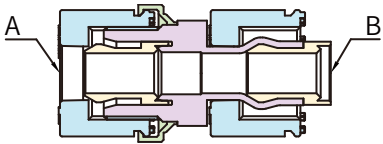
M1 : Mega Lock Type (사출射出)

Size : B (T=Tube End)

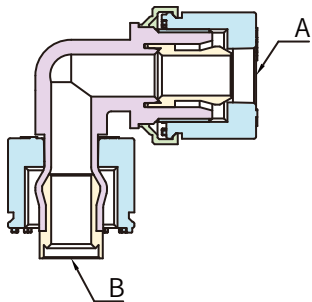
Tube Size : A (i=inch/m=mm)

IUCA : Innodis Union Connector Adaptor
IUEA : Innodis Union Elbow Adaptor

UNION CONNECTOR ADAPTOR
(SLEEVE & NUT SET)



UNION ELBOW ADAPTOR
(SLEEVE & NUT SET)



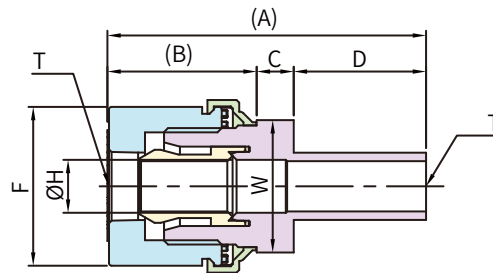
IUCA - 12i - 12A - M1

M1 : Mega Lock Type (사출射出)

Size : B (A=Sleeve & Nut Set)

Tube Size : A (i=inch/m=mm)

IUCA : Innodis Union Connector Adaptor
IUEA : Innodis Union Elbow Adaptor

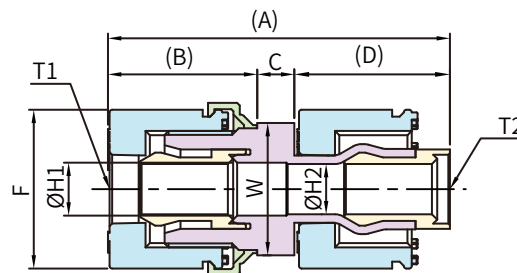


▲ Tube End Type

PART No.	Tube Size	(A)	(B)	C	D	ØH	F	W
metric connection Dimension : mm								
IUCA - 6m - 6T - M1	6 x 4	43.4	18.9	7	17.5	4	17	16
IUCA - 8m - 8T - M1	8 x 6	45.7	20.7	"	18	6	20	18
IUCA - 10m - 10T - M1	10 x 8	51.5	23.5	"	21	8	25	21
IUCA - 12m - 12mT - M1	12 x 10	60.2	28.2	"	25	10	30	25
IUCA - 19m - 19T - M1	19 x 15.8	76.4	35.4	10	31	16	40	34
IUCA - 25m - 25T - M1	25 x 22	95.1	41.9	14.2	39	22	50.5	43
Inch connection Dimension : mm								
IUCA - 14i - 14T - M1	1/4" x 5/32"	43.4	18.9	7	17.5	4	17	16
IUCA - 38i - 38T - M1	3/8" x 1/4"	51.5	23.5	"	21	8	25	21
IUCA - 12i - 12T - M1	1/2" x 3/8"	60.2	28.2	"	25	10	30	25
IUCA - 34i - 34T - M1	3/4" x 5/8"	76.4	35.4	10	31	16	40	34
IUCA - 1i - 1T - M1	1" x 7/8"	95.1	41.9	14.2	39	22	50.5	43

•PART NO. 외에 사이즈는 영업부에 문의하여 주시기 바랍니다

PART NO. 以外の尺寸 请咨询营业部



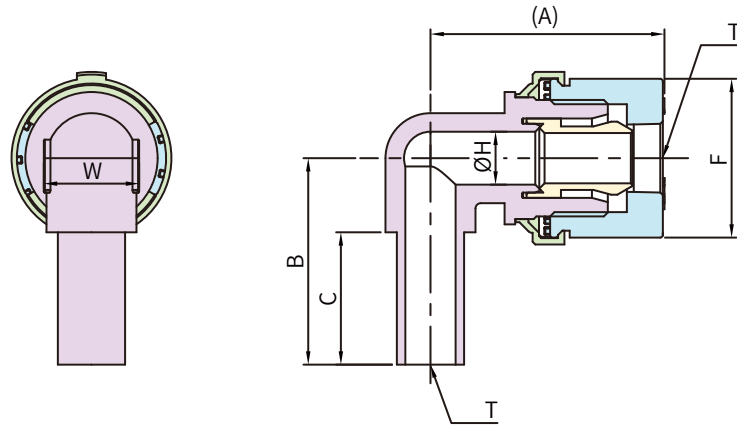
▲ Sleeve & Nut Set

PART No.	Tube Size T1	Connectable Body Size T2	(A)	(B)	C	(D)	ØH1	ØH2	F	W
metric connection Dimension : mm										
IUCA - 6m - 6A - M1	6 x 4	6	45.3	18.9	7	19.4	4	4	17	16
IUCA - 8m - 8A - M1	8 x 6	8	49.3	20.7	"	21.6	6	6	20	18
IUCA - 10m - 10A - M1	10 x 8	10	54.9	23.5	"	24.4	8	8	25	21
IUCA - 12m - 12mA - M1	12 x 10	12	64.6	28.2	"	29.4	10	10	30	25
IUCA - 19m - 19A - M1	19 x 15.8	19	81.6	35.4	10	36.2	16	15.8	40	34
IUCA - 25m - 25A - M1	25 x 22	25	102.1	41.9	14.2	46	22	22	50.5	43
Inch connection Dimension : mm										
IUCA - 14i - 14A - M1	1/4" x 5/32"	1/4"	45.3	18.9	7	19.4	4	3.95	17	16
IUCA - 38i - 38A - M1	3/8" x 1/4"	3/8"	54.9	23.5	"	24.4	8	6.33	25	21
IUCA - 12i - 12A - M1	1/2" x 3/8"	1/2"	64.6	28.2	"	29.4	10	9.5	30	25
IUCA - 34i - 34A - M1	3/4" x 5/8"	3/4"	81.6	35.4	10	36.2	16	15.8	40	34
IUCA - 1i - 1A - M1	1" x 7/8"	1"	102.1	41.9	14.2	46	22	22.2	50.5	43

•PART NO. 외에 사이즈는 영업부에 문의하여 주시기 바랍니다

PART NO. 以外の尺寸 请咨询营业部

UNION ELBOW ADAPTOR

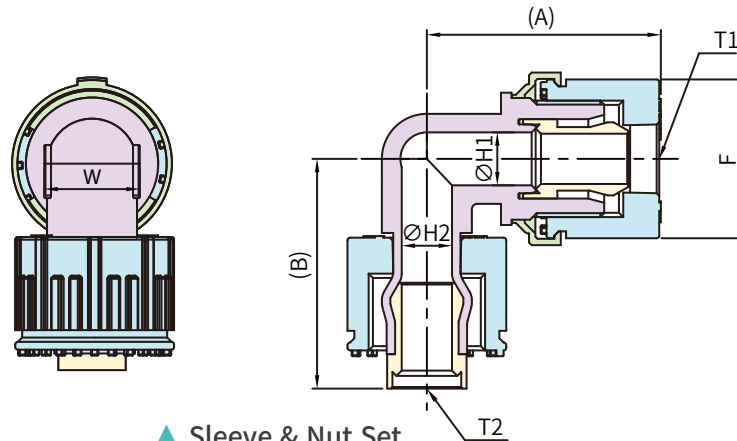


▲ Tube End Type

PART No.	Tube Size	(A)	B	C	ØH	F	W
metric connection							
Dimension : mm							
IUEA - 6m - 6T - M1	6 x 4	30.4	27	17.5	4	17	9.6
IUEA - 8m - 8T - M1	8 x 6	33.7	29	18	6	20	13
IUEA - 10m - 10T - M1	10 x 8	37.7	33.2	21	8	25	14.8
IUEA - 12m - 12mT - M1	12 x 10	44.2	39	25	10	30	18
IUEA - 19m - 19T - M1	19 x 15.8	56.4	49.5	31	16	40	27
IUEA - 25m - 25T - M1	25 x 22	67.7	61.8	39	22	50.5	34
Inch connection							
Dimension : mm							
IUEA - 14i - 14T - M1	1/4" x 5/32"	30.4	27	17.5	4	17	9.6
IUEA - 38i - 38T - M1	3/8" x 1/4"	37.7	33.2	21	8	25	14.8
IUEA - 12i - 12T - M1	1/2" x 3/8"	44.2	39	25	10	30	18
IUEA - 34i - 34T - M1	3/4" x 5/8"	56.4	49.5	31	16	40	27
IUEA - 1i - 1T - M1	1" x 7/8"	67.7	61.8	39	22	50.5	34

•PART NO. 외에 사이즈는 영업부에 문의하여 주시기 바랍니다

PART NO. 以外の尺寸 请咨询营业部



▲ Sleeve & Nut Set

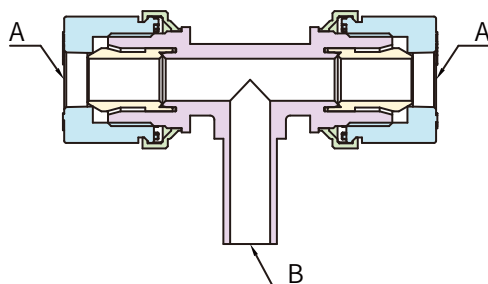
PART No.	Tube Size T1	Connectable Body Size T2	(A)	(B)	ØH1	ØH2	F	W
metric connection								
Dimension : mm								
IUEA - 6m - 6A - M1	6 x 4	6	30.4	28.9	4	4	17	9.6
IUEA - 8m - 8A - M1	8 x 6	8	33.7	32.6	6	6	20	13
IUEA - 10m - 10A - M1	10 x 8	10	37.7	36.6	8	8	25	14.8
IUEA - 12m - 12mA - M1	12 x 10	12	44.2	43.4	10	10	30	18
IUEA - 19m - 19A - M1	19 x 15.8	19	56.4	54.7	16	15.8	40	27
IUEA - 25m - 25A - M1	25 x 22	25	67.7	68.8	22	22	50.5	34
Inch connection								
Dimension : mm								
IUEA - 14i - 14A - M1	1/4" x 5/32"	1/4"	30.4	28.9	4	3.95	17	9.6
IUEA - 38i - 38A - M1	3/8" x 1/4"	3/8"	37.7	36.6	8	6.33	25	14.8
IUEA - 12i - 12A - M1	1/2" x 3/8"	1/2"	44.2	43.4	10	9.5	30	18
IUEA - 34i - 34A - M1	3/4" x 5/8"	3/4"	56.4	54.7	16	15.8	40	27
IUEA - 1i - 1A - M1	1" x 7/8"	1"	67.7	68.8	22	22.2	50.5	34

•PART NO. 외에 사이즈는 영업부에 문의하여 주시기 바랍니다

PART NO. 以外の尺寸 请咨询营业部

UNION TEE ADAPTOR - Type a

UNION TEE ADAPTOR (TUBE END)



* Type : a

IUTA - 12i - 12T - M1a

M1 : Mega Lock Type (사출射出)

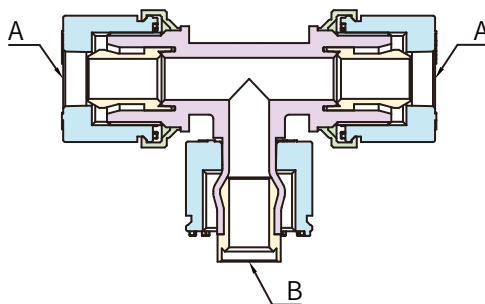
a : Type

Size : B (T=Tube End)

Tube Size : A (i=inch/m=mm)

IUTA : Innodis Union Tee Adaptor

UNION TEE ADAPTOR (SLEEVE & NUT SET)



* Type : a

IUTA - 12i - 12A - M1a

M1 : Mega Lock Type (사출射出)

a : Type

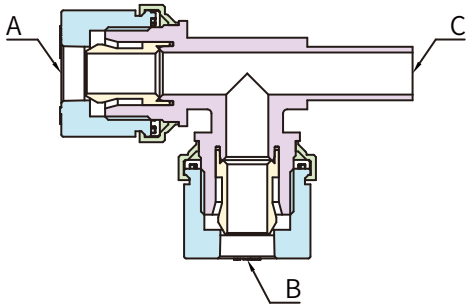
Size : B (A=Sleeve & Nut Set)

Tube Size : A (i=inch/m=mm)

IUTA : Innodis Union Tee Adaptor

UNION TEE ADAPTOR - Type b

UNION TEE ADAPTOR
(TUBE END)

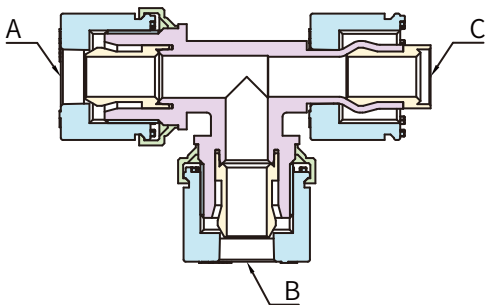


* Type : b

IUTA - 12i - 12i - 12T - M1b

- M1 : Mega Lock Type (사출 射出)
b : Type
- Size : C (T=Tube End)
- Tube Size : B (i=inch/m=mm)
- Tube Size : A (i=inch/m=mm)
- IUTA : Innodis Union Tee Adaptor

UNION TEE ADAPTOR
(SLEEVE & NUT SET)



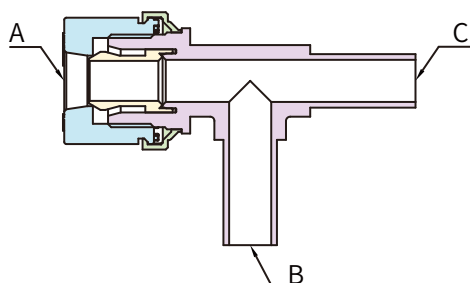
* Type : b

IUTA - 12i - 12i - 12A - M1b

- M1 : Mega Lock Type (사출 射出)
b : Type
- Size : C (A=Sleeve & Nut Set)
- Tube Size : B (i=inch/m=mm)
- Tube Size : A (i=inch/m=mm)
- IUTA : Innodis Union Tee Adaptor

UNION TEE ADAPTOR - Type c

UNION TEE ADAPTOR (TUBE END)



* Type : c

IUTA - 12i - 12T - 12T - M1c

M1 : Mega Lock Type (사출射出)

c : Type

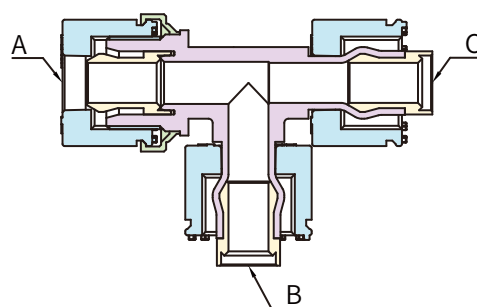
Size : C (T=Tube End)

Size : B (T=Tube End)

Tube Size : A (i=inch/m=mm)

IUTA : Innodis Union Tee Adaptor

UNION TEE ADAPTOR (SLEEVE & NUT SET)



* Type : c

IUTA - 12i - 12A - 12A - M1c

M1 : Mega Lock Type (사출射出)

c : Type

Size : C (A=Sleeve & Nut Set)

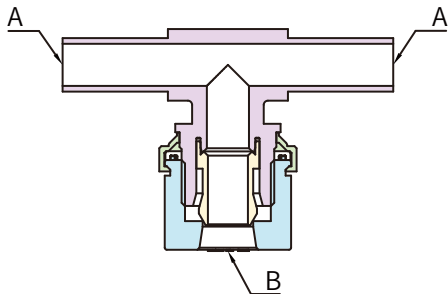
Size : B (A=Sleeve & Nut Set)

Tube Size : A (i=inch/m=mm)

IUTA : Innodis Union Tee Adaptor

UNION TEE ADAPTOR - Type d

UNION TEE ADAPTOR
(TUBE END)

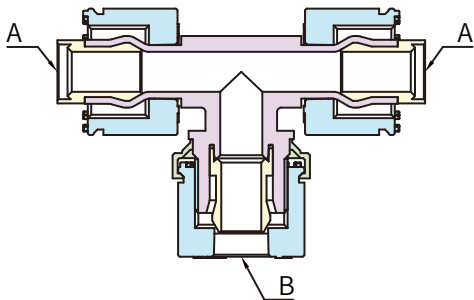


* Type : d

IUTA - 12T - 12i - M1d

- M1 : Mega Lock Type (사출 射出)
- d : Type
- Tube Size : B (i=inch/m=mm)
- Size : A (T=Tube End)
- IUTA : Innodis Union Tee Adaptor

UNION TEE ADAPTOR
(SLEEVE & NUT SET)

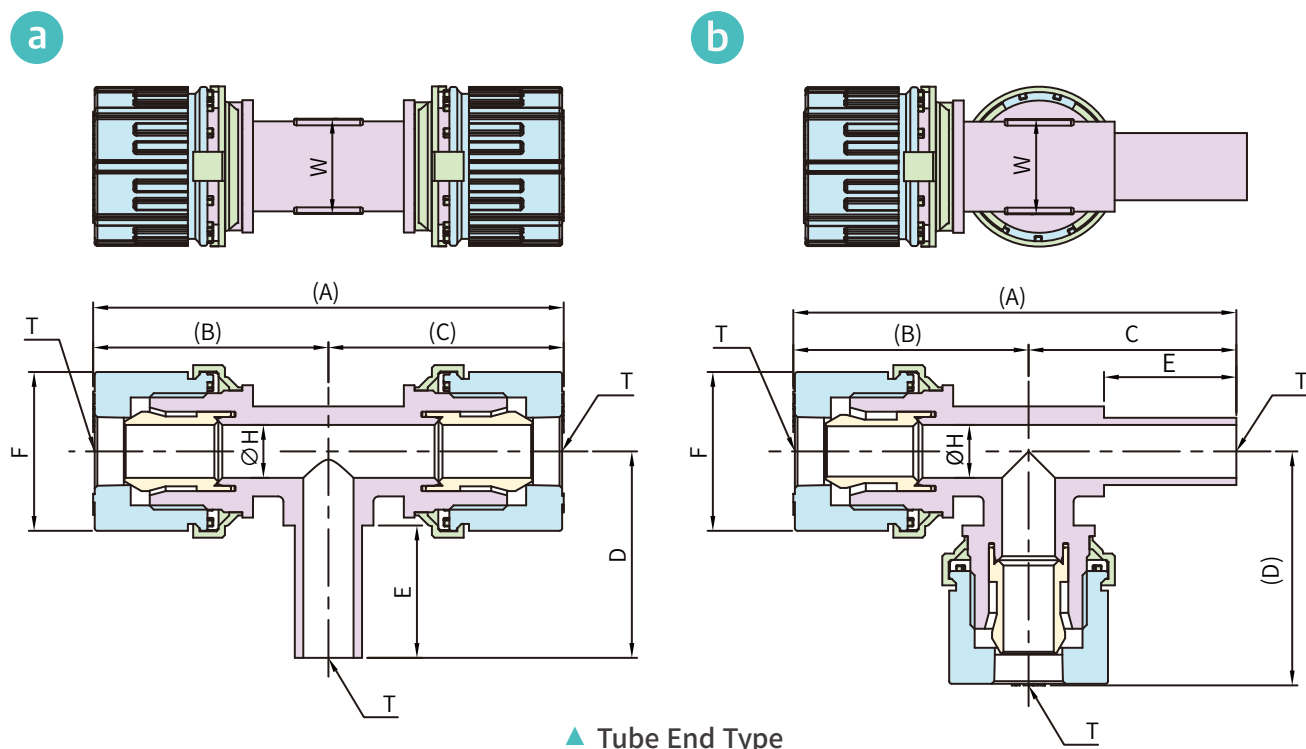


* Type : d

IUTA - 12A - 12i - M1d

- M1 : Mega Lock Type (사출 射出)
- d : Type
- Tube Size : B (i=inch/m=mm)
- Size : A (A=Sleeve & Nut Set)
- IUTA : Innodis Union Tee Adaptor

UNION TEE ADAPTOR



■ metric tube type

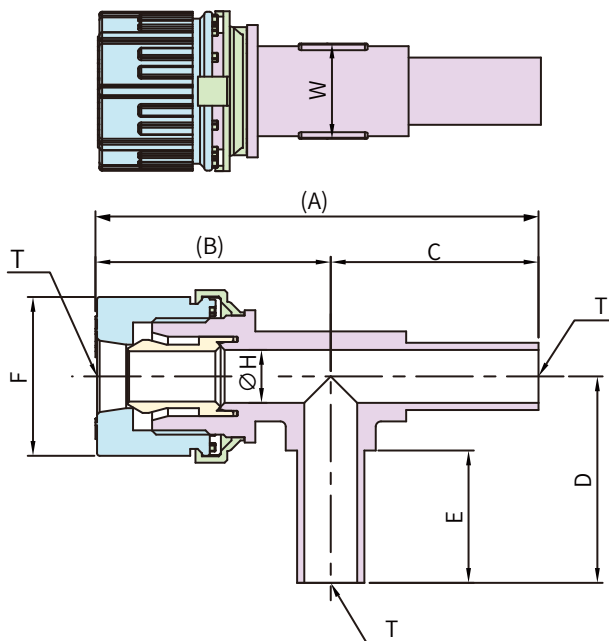
PART No.		Tube Size	A(A)	B(B)	C(C)	D(D)	E	ØH	F	W
metric connection										Dimension : mm
IUTA - 6T - 6m - M1	d	6 x 4	54	27	27	30.4	17.5	4	17	9.6
IUTA - 6m - 6T - 6T - M1	c	"	57.4	30.4	"	27	"	"	"	"
IUTA - 6m - 6T - M1	a	"	60.8	"	30.4	"	"	"	"	"
IUTA - 6m - 6m - 6T - M1	b	"	57.4	"	27	30.4	"	"	"	"
IUTA - 8T - 8m - M1	d	8 x 6	58	29	29	33.7	18	6	20	13
IUTA - 8m - 8T - 8T - M1	c	"	62.7	33.7	"	29	"	"	"	"
IUTA - 8m - 8T - M1	a	"	67.4	"	33.7	"	"	"	"	"
IUTA - 8m - 8m - 8T - M1	b	"	62.7	"	29	33.7	"	"	"	"
IUTA - 10T - 10m - M1	d	10 x 8	66.8	33.4	33.4	37.8	21	8	25	14.8
IUTA - 10m - 10T - 10T - M1	c	"	71.3	37.9	"	33.3	"	"	"	"
IUTA - 10m - 10T - M1	a	"	75.8	"	37.9	"	"	"	"	"
IUTA - 10m - 10m - 10T - M1	b	"	71.3	"	33.4	37.8	"	"	"	"
IUTA - 12mT - 12m - M1	d	12 x 10	78.5	39.25	39.25	44.2	25	10	30	18
IUTA - 12m - 12mT - 12mT - M1	c	"	83.7	44.45	"	39	"	"	"	"
IUTA - 12m - 12mT - M1	a	"	88.9	"	44.45	"	"	"	"	"
IUTA - 12m - 12m - 12mT - M1	b	"	83.7	"	39.25	44.2	"	"	"	"
IUTA - 19T - 19m - M1	d	19 x 15.8	99	49.5	49.5	56.4	31	16	40	27
IUTA - 19m - 19T - 19T - M1	c	"	105.9	56.4	"	49.5	"	"	"	"
IUTA - 19m - 19T - M1	a	"	112.8	"	56.4	"	"	"	"	"
IUTA - 19m - 19m - 19T - M1	b	"	105.9	"	49.5	56.4	"	"	"	"
IUTA - 25T - 25m - M1	d	25 x 22	124	62	62	67.9	39	22	50.5	34
IUTA - 25m - 25T - 25T - M1	c	"	129.9	67.9	"	62	"	"	"	"
IUTA - 25m - 25T - M1	a	"	135.8	"	67.9	"	"	"	"	"
IUTA - 25m - 25m - 25T - M1	b	"	129.9	"	62	67.9	"	"	"	"

•PART NO. 외에 사이즈는 영업부에 문의하여 주시기 바랍니다

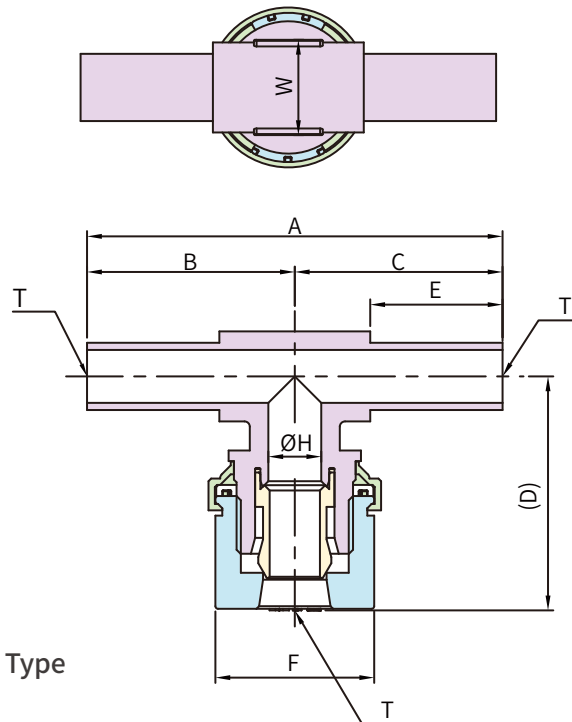
PART NO. 以外の尺寸 请咨询营业部

UNION TEE ADAPTOR

c



d



▲ Tube End Type

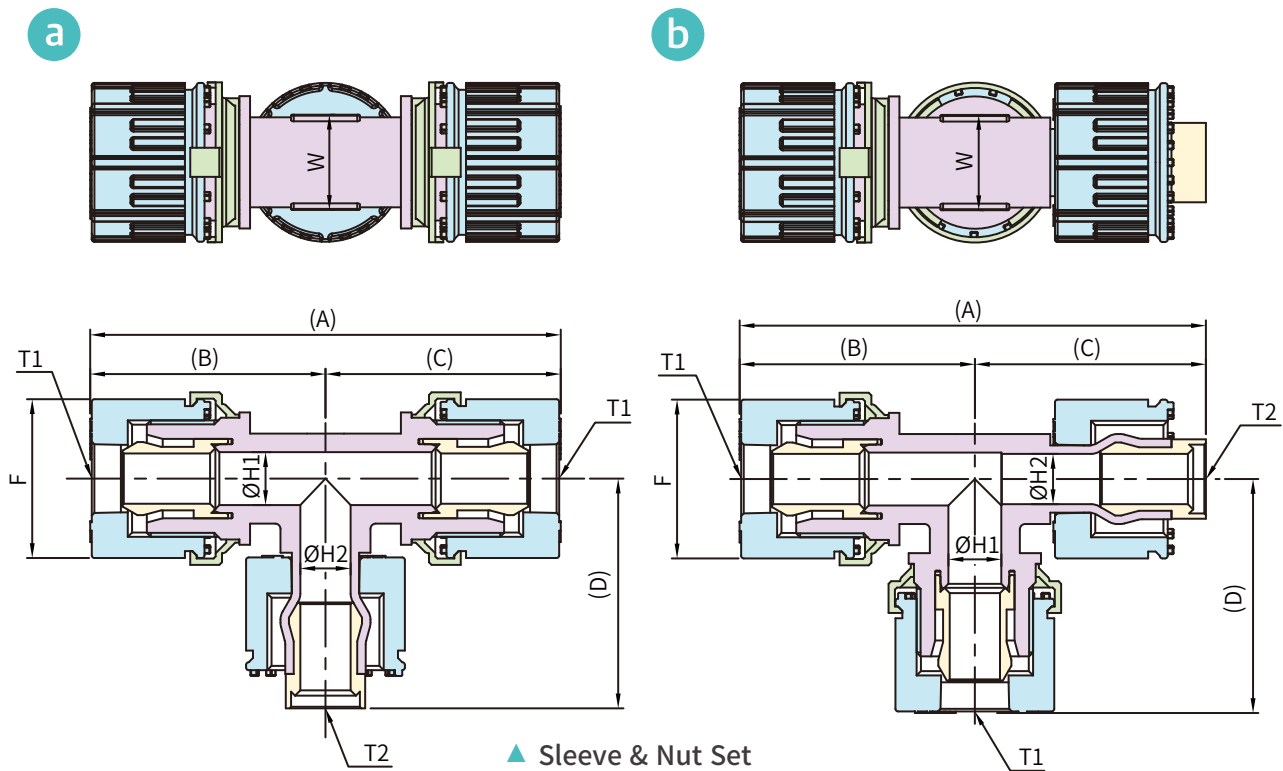
■ inch tube type

PART No.		Tube Size	A(A)	B(B)	C(C)	D(D)	E	ØH	F	W
Inch connection			Dimension : mm							
IUTA - 14T - 14i - M1	d	1/4" x 5/32"	53	26.5	26.5	30.4	17.5	4	17	9.6
IUTA - 14i - 14T - 14T - M1	c	"	56.9	30.4	"	26.5	"	"	"	"
IUTA - 14i - 14T - M1	a	"	60.8	"	30.4	"	"	"	"	"
IUTA - 14i - 14i - 14T - M1	b	"	56.9	"	26.5	30.4	"	"	"	"
IUTA - 38T - 38i - M1	d	3/8" x 1/4"	66.8	33.4	33.4	37.8	21	8	25	14.8
IUTA - 38i - 38T - 38T - M1	c	"	71.3	37.9	"	33.3	"	"	"	"
IUTA - 38i - 38T - M1	a	"	75.8	"	37.9	"	"	"	"	"
IUTA - 38i - 38i - 38T - M1	b	"	71.3	"	33.4	37.8	"	"	"	"
IUTA - 12T - 12i - M1	d	1/2" x 3/8"	78.5	39.25	39.25	44.2	25	10	30	18
IUTA - 12i - 12T - 12T - M1	c	"	83.7	44.45	"	39	"	"	"	"
IUTA - 12i - 12T - M1	a	"	88.9	"	44.45	"	"	"	"	"
IUTA - 12i - 12i - 12T - M1	b	"	83.7	"	39.25	44.2	"	"	"	"
IUTA - 34T - 34i - M1	d	3/4" x 5/8"	99	49.5	49.5	56.4	31	16	40	27
IUTA - 34i - 34T - 34T - M1	c	"	105.9	56.4	"	49.5	"	"	"	"
IUTA - 34i - 34T - M1	a	"	112.8	"	56.4	"	"	"	"	"
IUTA - 34i - 34i - 34T - M1	b	"	105.9	"	49.5	56.4	"	"	"	"
IUTA - 1T - 1i - M1	d	1" x 7/8"	124	62	62	67.9	39	22	50.5	34
IUTA - 1i - 1T - 1T - M1	c	"	129.9	67.9	"	62	"	"	"	"
IUTA - 1i - 1T - M1	a	"	135.8	"	67.9	"	"	"	"	"
IUTA - 1i - 1i - 1T - M1	b	"	129.9	"	62	67.9	"	"	"	"

•PART NO. 외에 사이즈는 영업부에 문의하여 주시기 바랍니다

PART NO. 以外的尺寸 请咨询营业部

UNION TEE ADAPTOR



■ metric tube type

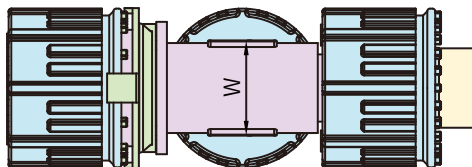
PART No.		Tube Size T1	Connectable Body Size T2	(A)	(B)	(C)	(D)	ØH1	ØH2	F	W
metric connection											Dimension : mm
IUTA - 6A - 6m - M1	d	6 x 4	6	57.8	28.9	28.9	30.4	4	4	17	9.6
IUTA - 6m - 6A - 6A - M1	c	"	"	59.3	30.4	"	28.9	"	"	"	"
IUTA - 6m - 6A - M1	a	"	"	60.8	"	30.4	"	"	"	"	"
IUTA - 6m - 6m - 6A - M1	b	"	"	59.3	"	28.9	30.4	"	"	"	"
IUTA - 8A - 8m - M1	d	8 x 6	8	65.2	32.6	32.6	33.7	6	6	20	13
IUTA - 8m - 8A - 8A - M1	c	"	"	66.3	33.7	"	32.6	"	"	"	"
IUTA - 8m - 8A - M1	a	"	"	67.4	"	33.7	"	"	"	"	"
IUTA - 8m - 8m - 8A	b	"	"	66.3	"	32.6	33.7	"	"	"	"
IUTA - 10A - 10m - M1	d	10 x 8	10	73.6	36.8	36.8	37.8	8	8	25	14.8
IUTA - 10m - 10A - 10A - M1	c	"	"	74.7	37.9	"	36.7	"	"	"	"
IUTA - 10m - 10A - M1	a	"	"	75.8	"	37.9	"	"	"	"	"
IUTA - 10m - 10m - 10A - M1	b	"	"	74.7	"	36.8	37.8	"	"	"	"
IUTA - 12mA - 12m - M1	d	12 x 10	12	87.3	43.65	43.65	44.2	10	10	30	18
IUTA - 12m - 12mA - 12mA - M1	c	"	"	88.1	44.45	"	43.4	"	"	"	"
IUTA - 12m - 12mA - M1	a	"	"	88.9	"	44.45	"	"	"	"	"
IUTA - 12m - 12m - 12mA - M1	b	"	"	88.1	"	43.65	44.2	"	"	"	"
IUTA - 19A - 19m - M1	d	19 x 15.8	19	109.4	54.7	54.7	56.4	16	15.8	40	27
IUTA - 19m - 19A - 19A - M1	c	"	"	111.1	56.4	"	54.7	"	"	"	"
IUTA - 19m - 19A - M1	a	"	"	112.8	"	56.4	"	"	"	"	"
IUTA - 19m - 19m - 19A - M1	b	"	"	111.1	"	54.7	56.4	"	"	"	"
IUTA - 25A - 25m - M1	d	25 x 22	25	138	69	69	67.9	22	22	50.5	34
IUTA - 25m - 25A - 25A - M1	c	"	"	136.9	67.9	"	69	"	"	"	"
IUTA - 25m - 25A - M1	a	"	"	135.8	"	67.9	"	"	"	"	"
IUTA - 25m - 25m - 25A - M1	b	"	"	136.9	"	69	67.9	"	"	"	"

•PART NO. 외에 사이즈는 영업부에 문의하여 주시기 바랍니다

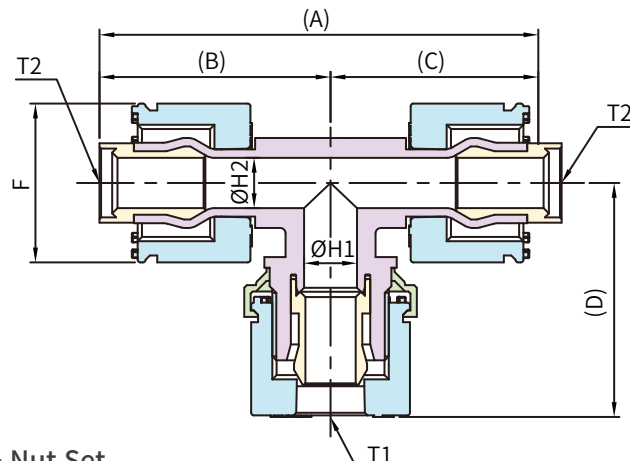
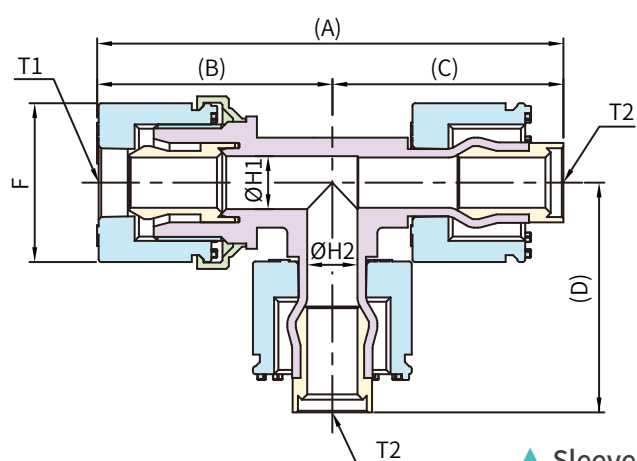
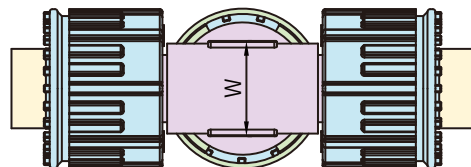
PART NO. 以外の尺寸 请咨询营业部

UNION TEE ADAPTOR

c



d



▲ Sleeve & Nut Set

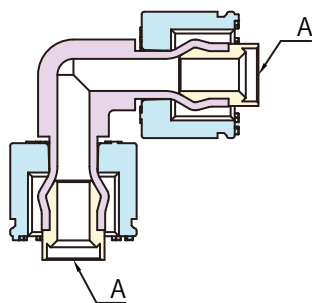
■ inch tube type

PART No.		Tube Size T1	Connectable Body Size T2	(A)	(B)	(C)	(D)	ØH1	ØH2	F	W
Inch connection											Dimension : mm
IUTA - 14A - 14i - M1	d	1/4" x 5/32"	1/4"	57.8	28.9	28.9	30.4	4	3.95	17	9.6
IUTA - 14i - 14A - 14A - M1	c	"	"	59.3	30.4	"	28.9	"	"	"	"
IUTA - 14i - 14A - M1	a	"	"	60.8	"	30.4	"	"	"	"	"
IUTA - 14i - 14i - 14A - M1	b	"	"	59.3	"	28.9	30.4	"	"	"	"
IUTA - 38A - 38i - M1	d	3/8" x 1/4"	3/8"	73.6	36.8	36.8	37.8	8	6.33	25	14.8
IUTA - 38i - 38A - 38A - M1	c	"	"	74.7	37.9	"	36.7	"	"	"	"
IUTA - 38i - 38A - M1	a	"	"	75.8	"	37.9	"	"	"	"	"
IUTA - 38i - 38i - 38A - M1	b	"	"	74.7	"	36.8	37.8	"	"	"	"
IUTA - 12A - 12i - M1	d	1/2" x 3/8"	1/2"	87.3	43.65	43.65	44.2	10	9.5	30	18
IUTA - 12i - 12A - 12A - M1	c	"	"	88.1	44.45	"	43.4	"	"	"	"
IUTA - 12i - 12A - M1	a	"	"	88.9	"	44.45	"	"	"	"	"
IUTA - 12i - 12i - 12A - M1	b	"	"	88.1	"	43.65	44.2	"	"	"	"
IUTA - 34A - 34i - M1	d	3/4" x 5/8"	3/4"	109.4	54.7	54.7	56.4	16	15.8	40	27
IUTA - 34i - 34A - 34A - M1	c	"	"	111.1	56.4	"	54.7	"	"	"	"
IUTA - 34i - 34A - M1	a	"	"	112.8	"	56.4	"	"	"	"	"
IUTA - 34i - 34i - 34A - M1	b	"	"	111.1	"	54.7	56.4	"	"	"	"
IUTA - 1A - 1i - M1	d	1" x 7/8"	1"	138	69	69	67.9	22	22.2	50.5	34
IUTA - 1i - 1A - 1A - M1	c	"	"	136.9	67.9	"	69	"	"	"	"
IUTA - 1i - 1A - M1	a	"	"	135.8	"	67.9	"	"	"	"	"
IUTA - 1i - 1i - 1A - M1	b	"	"	136.9	"	69	67.9	"	"	"	"

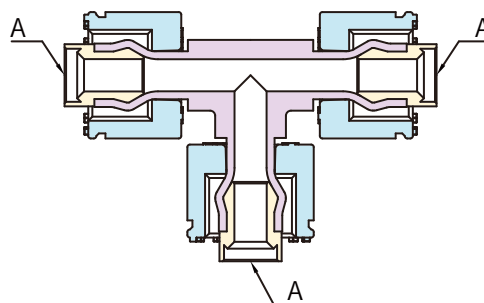
•PART NO. 외에 사이즈는 영업부에 문의하여 주시기 바랍니다

PART NO. 以外の尺寸 请咨询营业部

ELBOW ADAPTOR
(SLEEVE & NUT SET)



TEE ADAPTOR
(SLEEVE & NUT SET)



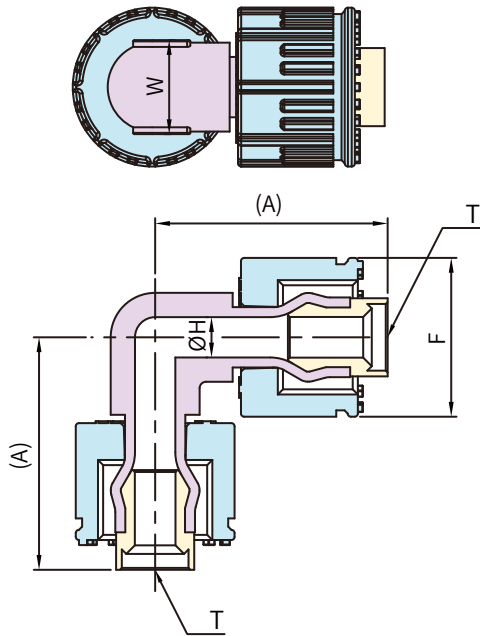
IEA - 12A - 12A - M1

M1 : Mega Lock Type (사출 射出)

Size : (A=Sleeve & Nut Set)

IEA : Innodis Elbow Adaptor
ITA : Innodis TEE Adaptor

ELBOW ADAPTOR



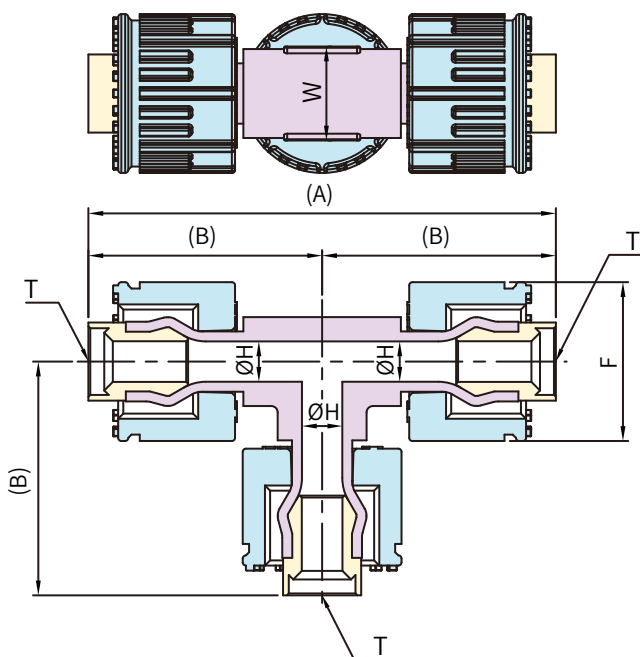
▲ Sleeve & Nut Set

PART No.	Connectable Body Size T	(A)	$\varnothing H$	F	W
metric connection Dimension : mm					
IEA - 6A - 6A - M1	6	28.9	4	17	9.6
IEA - 8A - 8A - M1	8	12.5	6	20	12.5
IEA - 10A - 10A - M1	10	36.6	8	25	14.8
IEA - 12mA - 12mA - M1	12	43.4	10	30	18
IEA - 19A - 19A - M1	19	54.7	15.8	40	27
IEA - 25A - 25A - M1	25	68.8	22	50.5	34

Inch connection Dimension : mm					
IEA - 14A - 14A - M1	1/4"	28.9	3.95	17	9.6
IEA - 38A - 38A - M1	3/8"	36.6	6.33	25	14.8
IEA - 12A - 12A - M1	1/2"	43.4	9.5	30	18
IEA - 34A - 34A - M1	3/4"	54.7	15.8	40	27
IEA - 1A - 1A - M1	1"	68.8	22.2	50.5	34

•PART NO. 외에 사이즈는 영업부에 문의하여 주시기 바랍니다
PART NO. 以外的尺寸 请咨询营业部

TEE ADAPTOR



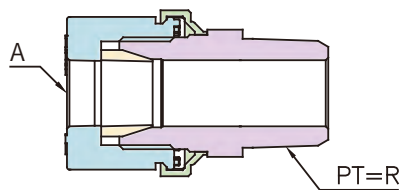
▲ Sleeve & Nut Set

PART No.	Connectable Body Size T	(A)	(B)	$\varnothing H$	F	W
metric connection Dimension : mm						
ITA - 6A - 6A - M1	6	57.8	28.9	4	17	9.6
ITA - 8A - 8A - M1	8	65.2	32.6	6	20	13
ITA - 10A - 10A - M1	10	73.6	36.8	8	25	14.8
ITA - 12mA - 12mA - M1	12	87.3	43.4	10	30	18
ITA - 19A - 19A - M1	19	109.4	54.7	15.8	40	27
ITA - 25A - 25A - M1	25	138	69	22	50.5	34

Inch connection Dimension : mm						
ITA - 14A - 14A - M1	1/4"	57.8	28.9	3.95	17	9.6
ITA - 38A - 38A - M1	3/8"	73.6	36.8	6.33	25	14.8
ITA - 12A - 12A - M1	1/2"	87.3	43.4	9.5	30	18
ITA - 34A - 34A - M1	3/4"	109.4	54.7	15.8	40	27
ITA - 1A - 1A - M1	1"	138	69	22.2	50.5	34

•PART NO. 외에 사이즈는 영업부에 문의하여 주시기 바랍니다
PART NO. 以外的尺寸 请咨询营业部

MALE CONNECTOR (FERRULE TYPE)



MALE CONNECTOR
(FERRULE TYPE)

IMCF - 12i - R12 - M1

M1 : Mega Lock Type (사출 射出)

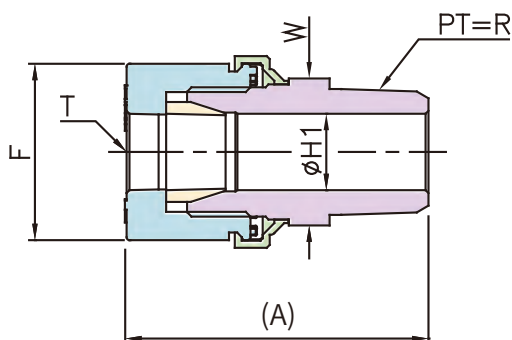
Size : R=PT

Tube Size : A (i=inch/m=mm)

IMCF : Innodis Male Connector Ferrul

IMCF

MALE CONNECTOR FERRULE TYPE(관통형 피팅)



PART No.	Tube Size	Thread Size	(A)	ØH1	F	W
metric connection (R=PT)						Dimension : mm
IMCF - 6m - R18 - M1	6 x 4	R 1/8	34.9	6.5	17.3	16
IMCF - 6m - R14 - M1	"	R 1/4	38.9	"	"	"
IMCF - 6m - R38 - M1	"	R 3/8	"	10	"	"
IMCF - 8m - R14 - M1	8 x 6	R 1/4	40.7	8.2	19.5	18
IMCF - 8m - R38 - M1	"	R 3/8	"	"	"	"
IMCF - 8m - R12 - M1	"	R 1/2	44.7	"	22.7	21
IMCF - 10m - R38 - M1	10 x 8	R 3/8	43.5	10.2	"	"
IMCF - 10m - R12 - M1	"	R 1/2	47.5	"	"	"
IMCF - 12m - R38 - M1	12 x 10	R 3/8	48.2	12.2	27	25
IMCF - 12m - R12 - M1	"	R 1/2	52.2	"	"	"
IMCF - 19m - R34 - M1	19 x 15.8	R 3/4	64.4	19.2	36.8	34
IMCF - 25m - R1 - M1	25 x 22	R 1	78.1	25.6	46.5	43
Inch connection (R=PT)						Dimension : mm
IMCF - 14i - R18 - M1	1/4" x 5/32"	R 1/8	34.9	6.5	17.3	16
IMCF - 14i - R14 - M1	"	R 1/4	38.9	"	"	"
IMCF - 14i - R38 - M1	"	R 3/8	"	10	"	"
IMCF - 38i - R38 - M1	3/8" x 1/4"	R 3/8	43.5	9.7	22.7	21
IMCF - 38i - R12 - M1	"	R 1/2	47.5	"	"	"
IMCF - 12i - R38 - M1	1/2" x 3/8"	R 3/8	48.2	13	27	25
IMCF - 12i - R12 - M1	"	R 1/2	52.2	"	"	"
IMCF - 34i - R34 - M1	3/4" x 5/8"	R 3/4	64.4	19.2	36.8	34
IMCF - 1i - R1 - M1	1" x 7/8"	R 1	78.1	25.6	46.5	43

•PART NO. 외에 사이즈는 영업부에 문의하여 주시기 바랍니다 PART NO. 以外の尺寸 请咨询营业部



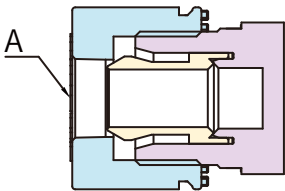
05

Others

TUBE CAP
CAP SLEEVE
NUT
SLEEVE

TUBE CAP

TUBE CAP



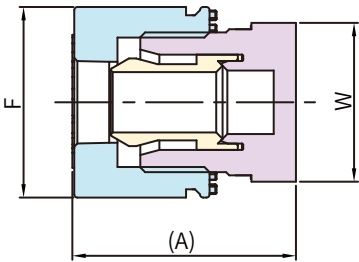
IF - TC12i - M1

- M1 : Mega Lock Type (사출 射出)
- MF : PFA (가공 加工) / MT : PTFE (가공 加工)
- TC : Tube Cap
- Tube Size : A (i=inch/m=mm)
- IF : Innodis Fitting

* Nut, Sleeve, Lock gauge 는 미포함 상품입니다.

IF-TC

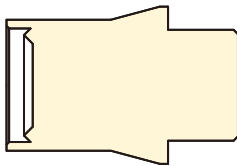
TUBE CAP



PART No.	Tube Size	(A)	F	W
metric connection				
Dimension : mm				
IF - TC3m - MF / MT	3 x 2	22	12.7	13.9
IF - TC4m - MF / MT	4 x 3	"	"	"
IF - TC6m - M1	6 x 4	25.9	17	16
IF - TC8m - M1	8 x 6	27.7	20	18
IF - TC10m - M1	10 x 8	30.5	25	21
IF - TC12m - M1	12 x 10	35.2	30	25
IF - TC19m - M1	19 x 15.8	45.4	40	34
IF - TC25m - M1	25 x 22	56.9	50.5	43
Inch connection				
Dimension : mm				
IF - TC18i - MF / MT	1/8" x 0.086"	22	12.7	13.9
IF - TC14i - M1	1/4" x 5/32"	25.9	17	16
IF - TC38i - M1	3/8" x 1/4"	30.5	25	21
IF - TC12i - M1	1/2" x 3/8"	35.2	30	25
IF - TC34i - M1	3/4" x 5/8"	45.4	40	34
IF - TC1i - M1	1" x 7/8"	56.9	50.5	43

CAP SLEEVE, UNION NUT, SLEEVE

CAP SLEEVE



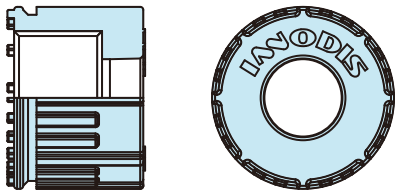
IF - CS12i - MT

MF : PFA (가공 加工)/ MT : PTFE (가공 加工)

CS : Cap Sleeve
Tube Size : i=inch/m=mm

IF : Innodis Fitting

UNION NUT



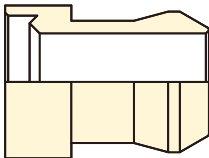
IF - N12i - M1

M1 : Mega Lock Type (사출 射出)

N : Nut
Tube Size : i=inch/m=mm

IF : Innodis Fitting

SLEEVE



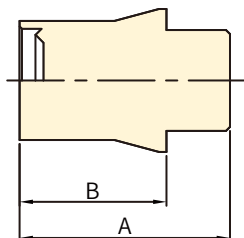
IF - S12i - M1

M1 : Mega Lock Type (사출 射出)
P1 : Small Size - 1/8", 3m, 4m (사출 射出)

S : Sleeve
Tube Size : i=inch/m=mm

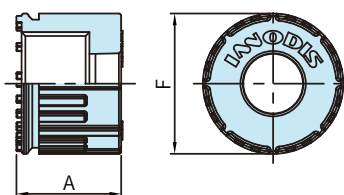
IF : Innodis Fitting

CAP SLEEVE



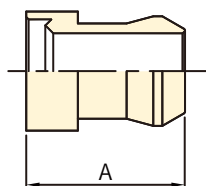
PART No.	Tube Size	A	B
metric connection		Dimension : mm	
IF - CS3m - MF	3 x 2	12.3	9.8
IF - CS4m - MF	4 x 3	"	"
IF - CS6m - MF	6 x 4	17.5	11.5
IF - CS8m - MF	8 x 6	19	12.6
IF - CS10m - MF	10 x 8	21.2	14.2
IF - CS12m - MF	12 x 10	27	19
IF - CS19m - MF	19 x 15.8	32.8	23.8
IF - CS25m - MF	25 x 22	40.2	30.2
Inch connection		Dimension : mm	
IF - CS18i - MF	1/8" x 0.086"	12.3	9.8
IF - CS14i - MF	1/4" x 5/32"	17.5	11.5
IF - CS38i - MF	3/8" x 1/4"	21.2	14.2
IF - CS12i - MF	1/2" x 3/8"	27	19
IF - CS34i - MF	3/4" x 5/8"	32.8	23.8
IF - CS1i - MF	1" x 7/8"	40.2	30.2

NUT



PART No.	Tube Size	A	F	W
metric connection		Dimension : mm		
IF - N3m - M1	3 x 2	10	12.7	11
IF - N4m - M1	4 x 3	"	"	"
IF - N6m - M1	6 x 4	15.8	17	-
IF - N8m - M1	8 x 6	17.9	20	-
IF - N10m - M1	10 x 8	19.5	25	-
IF - N12m - M1	12 x 10	22.7	30	-
IF - N19m - M1	19 x 15.8	28.8	40	-
IF - N25m - M1	25 x 22	33.8	50.5	-
Inch connection		Dimension : mm		
IF - N18i - M1	1/8" x 0.086"	10	12.7	11
IF - N14i - M1	1/4" x 5/32"	15.8	17	-
IF - N38i - M1	3/8" x 1/4"	19.5	25	-
IF - N12i - M1	1/2" x 3/8"	22.7	30	-
IF - N34i - M1	3/4" x 5/8"	28.8	40	-
IF - N1i - M1	1" x 7/8"	33.8	50.5	-

SLEEVE



PART No.	Tube Size	A
metric connection		Dimension : mm
IF - S3m - P1	3 x 2	10
IF - S4m - P1	4 x 3	"
IF - S6m - M1	6 x 4	12.5
IF - S8m - M1	8 x 6	14
IF - S10m - M1	10 x 8	15.8
IF - S12m - M1	12 x 10	20.2
IF - S19m - M1	19 x 15.8	24.3
IF - S25m - M1	25 x 22	31
Inch connection		Dimension : mm
IF - S18i - P1	1/8" x 0.086"	10
IF - S14i - M1	1/4" x 5/32"	12.4
IF - S38i - M1	3/8" x 1/4"	15.7
IF - S12i - M1	1/2" x 3/8"	20
IF - S34i - M1	3/4" x 5/8"	24.3
IF - S1i - M1	1" x 7/8"	31



06

Fitting Jig

TUBE EXPANDING JIG
NUT ASSEMBLY JIG

TUBE EXPANDING JIG (MEGA LOCK TYPE)



Tube Expanding Gun

* Body Size. 296(W)×160(L)×47(H)

Size	Code No	Weight
1/8", 1/4"	IF - TET - J1 - M1	750g
3mm ~ 8mm	IF - TET - J1M - M1	750g



Tube Expanding Tool

* Body Size. 310(W)×105(L)×62(H)

Size	Code No	Weight
3/8" ~ 1"	IF - TET - J2 - M1	2650g
10mm ~ 25mm	IF - TET - J2M - M1	2650g



Tube Expanding Jig <Rod Type>

Part Name	Size	Code No	Weight
Set Code No	Inch	IFER - i - S - M1	570g
	mm	IFER - M - S - M1	630g



Tube Expanding Jig (L) / Sleeve Fix Jig (R) / 대구경 Expanding Jig

Part Name	Size	Code No	Weight
Set Code No	Inch	IFEF - i - S - M1	940g
	mm	IFEF - M - S - M1	940g
	1-1/4"	IFEF-114i-S	-
	1-1/2"	IFEF-112i-S	-

NUT ASSEMBLY JIG



Part Name	Size	Code No	Weight
Nut Assembly Jig	1/4" (6mm)	IFA - 14i - M1	5g
	8mm	IFA - 8m - M1	5g
	3/8" (10mm)	IFA - 38i - M1	10g
	1/2" (12mm)	IFA - 12i - M1	15g
	3/4" (19mm)	IFA - 34i - M1	30g
	1" (25mm)	IFA - 1i - M1	40g
Set Code No	Inch / mm	IFA - SET - M1	295g