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Extrusion & injection, basic

PRODUCT CATALOG

Presenting quality products and advances into the future.

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ENIB Co.,Ltd.

“ SMART VALUE OPERATION PRODUCT ”



발명
특허

디자인
등록

디자인
출원

특허 및 인증 Patent & Certification





SMART VALUE OPERATION PRODUCT LINE UP

ENIB (Extrusion & Injection, Basic Co., Ltd) Corporate Mission :

ENIB is to become a key provider of safe, high performance, and advanced technology device and components for fluid management systems and applications that meet or exceed the needs and requirements of global customers.

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GCA MANUAL VALVE

General Chemical Application

GCA 밸브는 불소수지만을 사용하여 제작되었으며, 고순도의 약액 이송 배관에 최적화하여 설계된 제품입니다.

GCA Manual valve is made only of fluoropolymer material and is designed to generate optimal performance in handling high-purity chemicals

ORDERING INFORMATION

GMV - □□□□ - □□

1. Product Name

GCA Manual Valve

2. Connection Type

- FF : Flare Type - Fine Thread
- FR : Ferrule Type
- SMFR : Superior Master® Lock (Ferrule Type)
- P : Pipe Type

3. Code_Size

- 04 1/4"
- 06 3/8"
- 08 1/2"
- 12 3/4"
- 16 1"
- 20 1-1/4"
- 24 1-1/2" (38.1)
- 24-40 1-1/2" (40)
- 32 2"
- 15 15A
- 20 20A
- 25 25A
- 40 40A
- 50 50A

EXAMPLE

GMV - SMFR - 16

- ① GMV : GCA Manual Valve
- ② SMFR : Superior Master® Lock (Ferrule) Type
- ③ 16 : 1"



MAJOR FUNCTIONS AND FEATURES

1. 고순도의 불소수지 재질로만 제작된 밸브이며, Chemical 적용시 오염 및 부식이 발생하지 않는다.
 2. Valve의 변형방지 및 기밀 향상을 위해 Bonnet 구조의 일체조립으로 접점기밀 유지
 3. 안전장치인 Bonnet Lock, Nut Lock 구성 / 임의의 풀림 방지
 4. 식별 용이한 Up/Down Indicator 적용 / 눈금표시로 유량확인
 5. Connection Type은 Flare, Ferrule, Pipe로 다양한 배관 구성 가능
1. Made only of high-purity Fluoropolymer material and is designed to generate optimal performance in handling high-purity chemicals.
 2. Bonnet is screwed onto the body(All-in-one assembly) to prevent valve deformation and improve airtightness.
 3. The Bonnet Lock and fitting Nut Lock stabilize and prevent loosening of valve components adding additional safety.
 4. Visually identifiable on and off indicator for precise valve operation
 5. Multi connection types available - flare, ferrule, and pipe connections

TECHNICAL SPECIFICATIONS

1. Actuator Type

Manual Handle Operation

2. Configuration

2-Way Flow / Orifice Type

3. Port Connection & Port Size

PFA VALVE	ACTUATOR TYPE	CONNECTION TYPE	SIZE
GCA SERIES	MANUAL VALVE	Flare - Fine Thread	1/4"~1"
		Ferrule - Master® Lock	1/4"~2"
		Ferrule - Superior Master® Lock	1/4"~1" ※ Progress up to 2"
		Pipe	15A~50A

4. Operating Specification

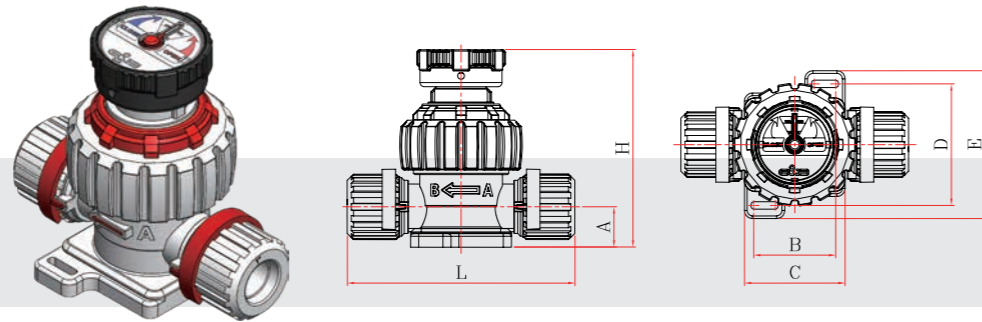
Operating Temperature	Maximum Operating Pressure
0~90°C	9kg/cm²(0.9Mpa)
90~120°C	7kg/cm²(0.7Mpa)

5. Material Construction

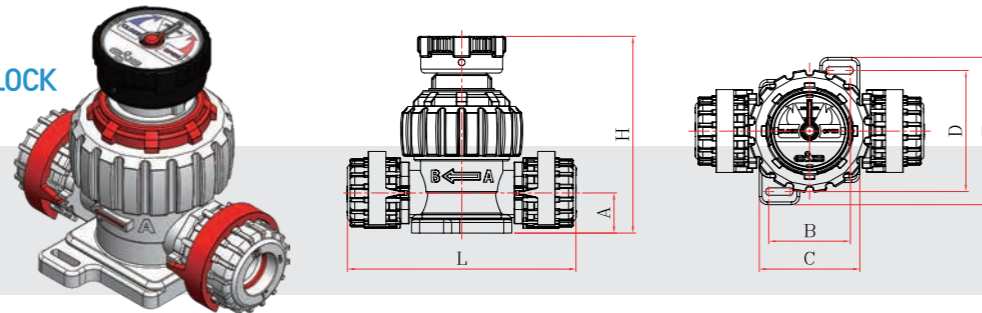
- Body : High Purity PFA
- Diaphragm : Modified PTFE
- Other Part : PVDF

GCA MANUAL VALVE DIMENSION TABLE

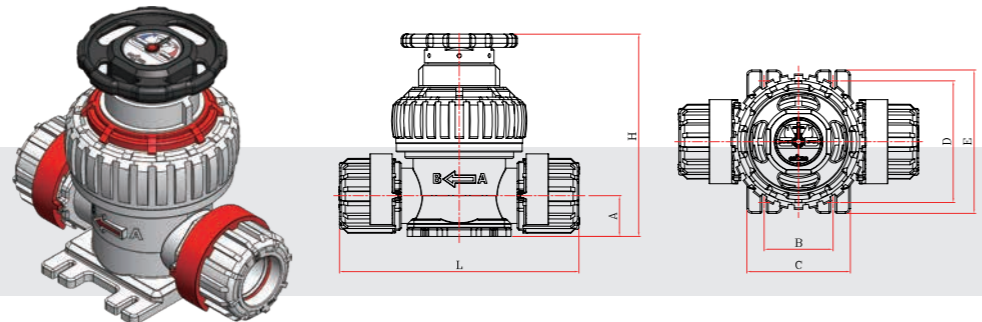
FLARE TYPE - FINE THREAD



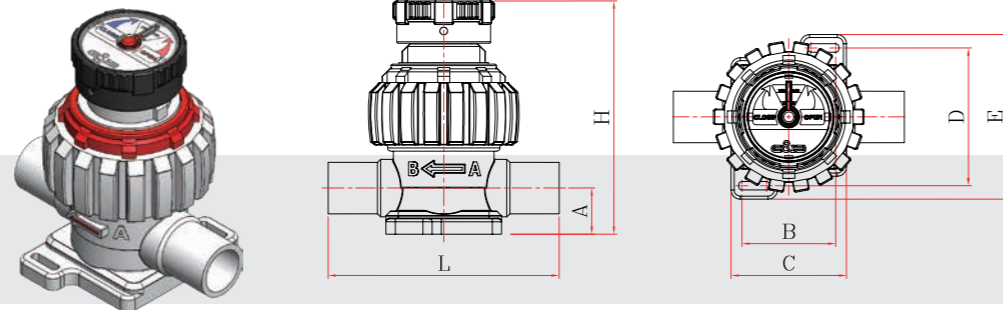
FERRULE TYPE - SUPERIOR MASTER® LOCK - MASTER® LOCK



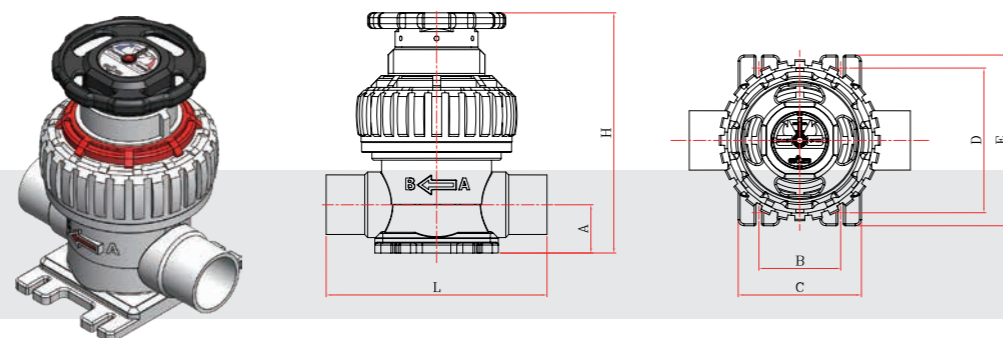
FERRULE TYPE - MASTER® LOCK



PIPE TYPE



PIPE TYPE



FLARE TYPE - FINE THREAD TYPE

단위 : mm

SIZE	P/N	Orifice	CV	A	H	L	B	C	D	E
1/4"	GMV-FF-04	4.5	0.5	18	92.5	118	29	41	48	63
3/8"	GMV-FF-06	6.9	1.1	18	92.5	120.5	29	41	48	63
1/2"	GMV-FF-08	10	1.8	22	107	131	34	46	55	70
3/4"	GMV-FF-12	16.4	5.8	30	134	151	44	57	65	80
1"	GMV-FF-16	22.8	11	30	147	178.5	61	75	90.5	110

FERRULE TYPE - SUPERIOR MASTER® LOCK

단위 : mm

SIZE	P/N	Orifice	CV	A	H	L	B	C	D	E
1/4"	GMV-SMFR-04	4.5	0.5	18	92.5	100	29	41	48	63
3/8"	GMV-SMFR-06	6.9	1.1	18	92.5	110	29	41	48	63
1/2"	GMV-SMFR-08	10	1.8	22	107	120.5	34	46	55	70
3/4"	GMV-SMFR-12	16.4	5.8	30	134	143	44	57	65	80
1"	GMV-SMFR-16	22.8	11	30	147	170.5	61	75	90.5	110

FERRULE TYPE - MASTER® LOCK

단위 : mm

SIZE	P/N	Orifice	CV	A	H	L	B	C	D	E
1/4"	GMV-FR-04	4.5	0.5	18	92.5	100	29	41	48	63
3/8"	GMV-FR-06	6.9	1.1	18	92.5	110	29	41	48	63
1/2"	GMV-FR-08	10	1.8	22	107	120.5	34	46	55	70
3/4"	GMV-FR-12	16.4	5.8	30	134	143	44	57	65	80
1"	GMV-FR-16	22.8	11	30	147	170.5	61	75	90.5	110
1-1/4"	GMV-FR-20	28	14	38	159.5	213	61	95	89.5	107

FERRULE TYPE - MASTER® LOCK

단위 : mm

SIZE	P/N	Orifice	CV	A	H	L	B	C	D	E
1-1/2" (38.1)	GMV-FR-24	33.7	20.7	40	173.5	221	79	95	107.5	127
1-1/2" (40)	GMV-FR-24-40	33.7	20.7	40	173.5	221	79	95	107.5	127
2"	GMV-FR-32	46	40.25	49	241	289	83	125	149.5	173

PIPE TYPE

단위 : mm

SIZE	P/N	Orifice	CV	A	H	L	B	C	D	E
15A	GMV-P-15	16.4	5.3	30	134	136	44	57	65	80
20A	GMV-P-20	21	9	30	147	138	61	75	90.5	110
25A	GMV-P-25	26.6	14.6	30	151.5	150	61	75	89.5	107

PIPE TYPE

단위 : mm

SIZE	P/N	Orifice	CV	A	H	L	B	C	D	E
40A	GMV-P-40	40.86	38.3	49	241	224	83	125	149.5	173
50A	GMV-P-50	52.5	51.1	49	241	224	83	125	149.5	173

GCA PNEUMATIC VALVE

General Chemical Application

GCA 밸브는 불소수지만을 사용하여 제작되었으며, 고순도의 약액 이송 배관에 최적화하여 설계된 제품입니다.

GCA Pneumatic valve's all wetted parts are made of PFA material, and the valve is designed to generate optimal performance in handling high-purity chemicals

ORDERING INFORMATION

GPV - □□□□ - □□ - □□

1. Product Name

GCA Pneumatic Valve

2. Connection Type

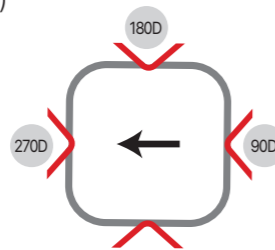
- FF : Flare Type - Fine Thread
- FR : Ferrule Type
- SMFR : Superior Master Lock (Ferrule Type)
- P : Pipe Type

3. Code_ Size

- 04 1/4"
- 06 3/8"
- 08 1/2"
- 12 3/4"
- 16 1"
- 20 1-1/4"
- 24 1-1/2" (38.1)
- 24-40 1-1/2" (40)
- 32 2"
- 15 15A
- 20 20A
- 25 25A
- 40 40A
- 50 50A

4. Position Air Hole

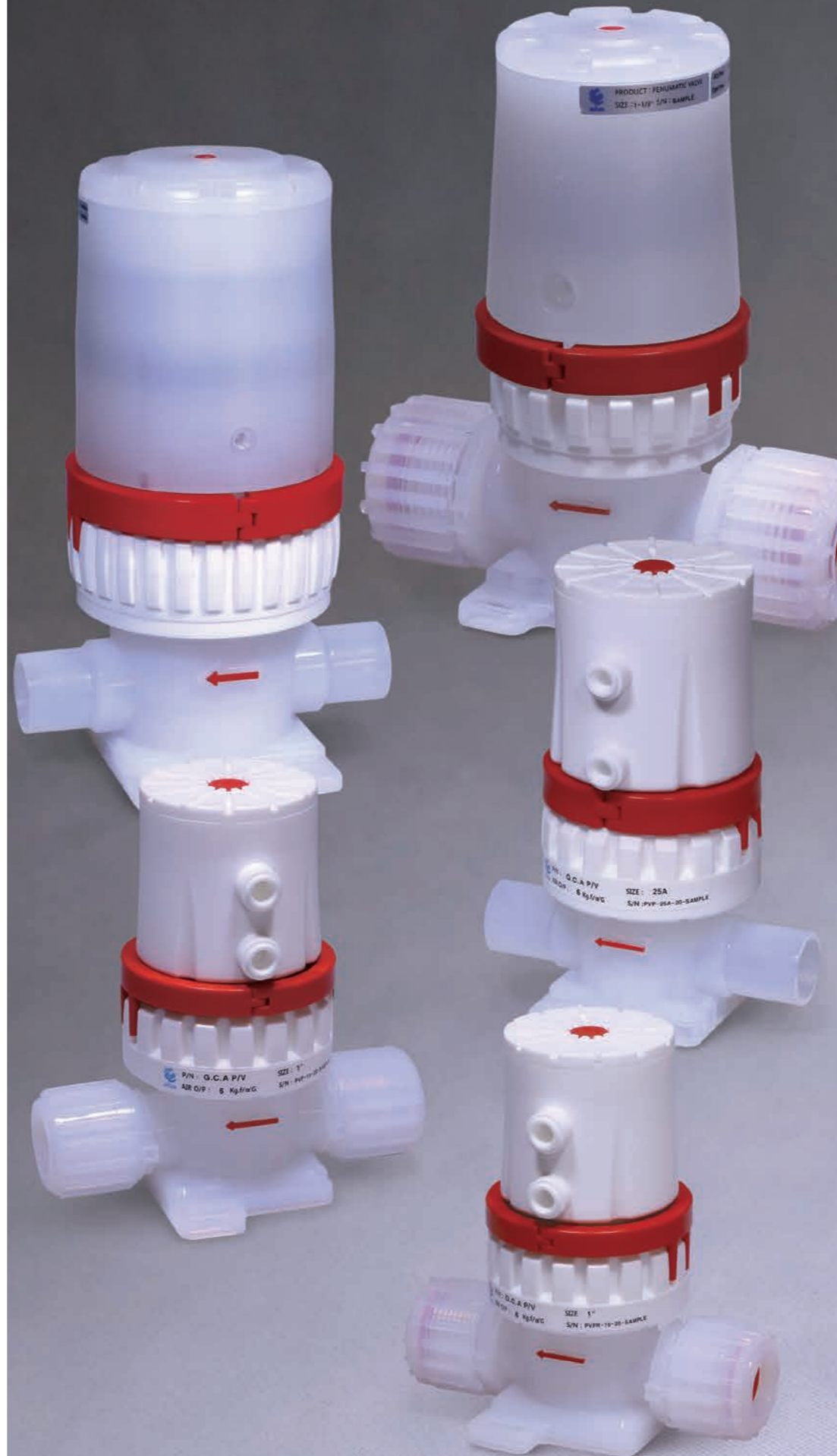
- () Front Direction
- 90D 90 Degree
- 180D 180 Degree
- 270D 270 Degree



EXAMPLE

GPV - FR - 16 - 90D

- ① GPV : GCA Pneumatic Valve
- ② FR : Ferrule Type
- ③ 16 : 1"
- ④ 90D : 90Degree



MAJOR FUNCTIONS AND FEATURES

1. 고순도의 불소수지 재질로만 제작된 밸브이며, Chemical 적용시 오염 및 부식이 발생하지 않는다.
 2. Valve의 변형방지 및 기밀 향상을 위해 Bonnet 구조의 일체조립으로 접점기밀 유지
 3. 안전장치인 Bonnet Lock, Nut Lock 구성 / 임의의 풀림 방지
 4. 식별 용이한 Up/Down Indicator 적용 / 눈금표시로 유량확인
 5. Connection Type은 Flare, Ferrule, Pipe로 다양한 배관 구성 가능
-
1. Made only of high-purity Fluoropolymer material and is designed to generate optimal performance in handling high-purity chemicals
 2. Bonnet is screwed onto the body(all-in-one assembly) to prevent valve deformation and improve airtightness.
 3. Bonnet Lock and fitting Nut Lock stabilize and prevent loosening of valve components adding additional safety
 4. Visually identifiable on and off indicator for precise valve operation
 5. Multi connection types available - flare, ferrule, and pipe connections

TECHNICAL SPECIFICATIONS

1. Actuator Type

Pneumatic Air Operation

2. Configuration

2-Way Flow / Orifice Type

3. Port Connection & Port Size

PFA VALVE	ACTUATOR TYPE	CONNECTION TYPE	SIZE
GCA SERIES	PNEUMATIC VALVE	Flare - Fine Thread	1/4"~1"
		Ferrule - Master® Lock	1/4"~2"
		Ferrule - Superior Master® Lock	1/4"~1" ※ Progress up to 2"
		Pipe	15A~50A

4-1. Operating Specification

Operating Temperature	Maximum Operating Pressure
0~90°C	9kg/cm ² (0.9Mpa)
90~120°C	7kg/cm ² (0.7Mpa)

4-2. Product Warranty

Size	Maximum Pressure Cutoff	Max. Close seal pressure while fluid flow (양방향 압력)	Guarantee Cycle
1/4"~1-1/2"	6kg/cm ²	6kg/cm ²	300,000
15A~25A			
2"			
40A~50A			

5. Air Port

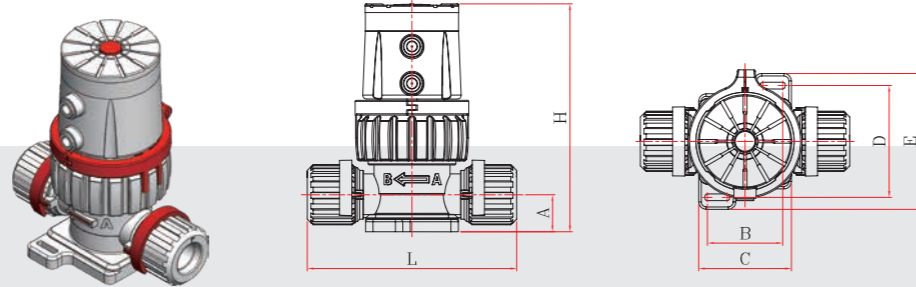
1/8"PT (FEMALE) / Minimum 6 ~ Maximum 7kg/cm²(86~100 psi)

6. Material Construction

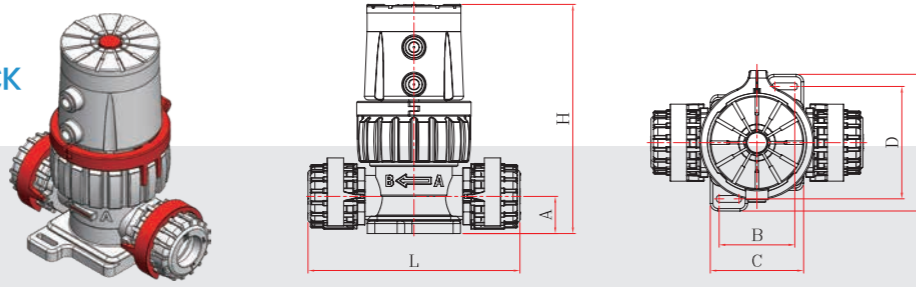
Body : High Purity PFA
 Diaphragm : Modified PTFE
 Other Part : PVDF, PP, Rubber O ring, STS Spring

GCA PNEUMATIC VALVE DIMENSION TABLE

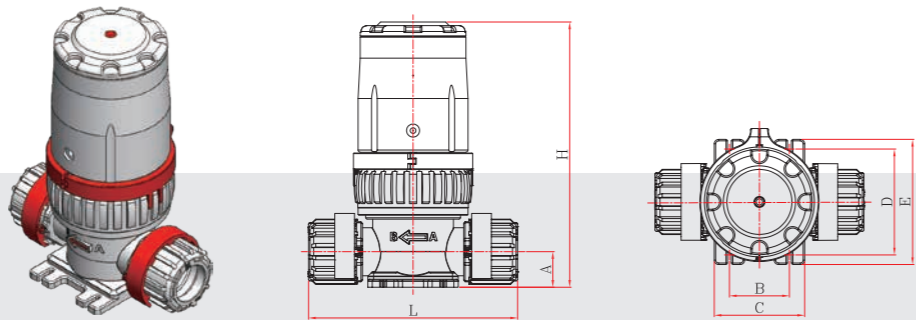
FLARE TYPE - FINE THREAD



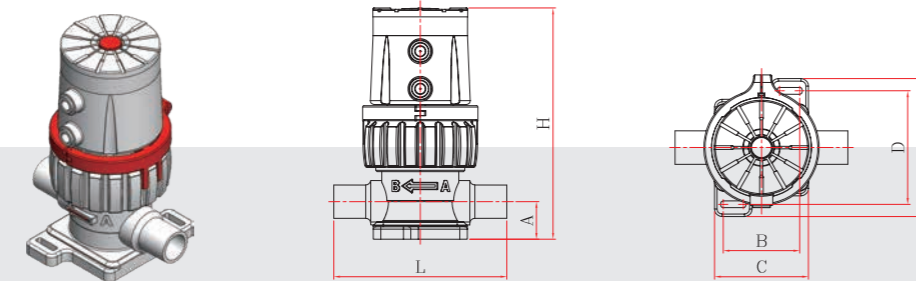
FERRULE TYPE - SUPERIOR MASTER® LOCK - MASTER® LOCK



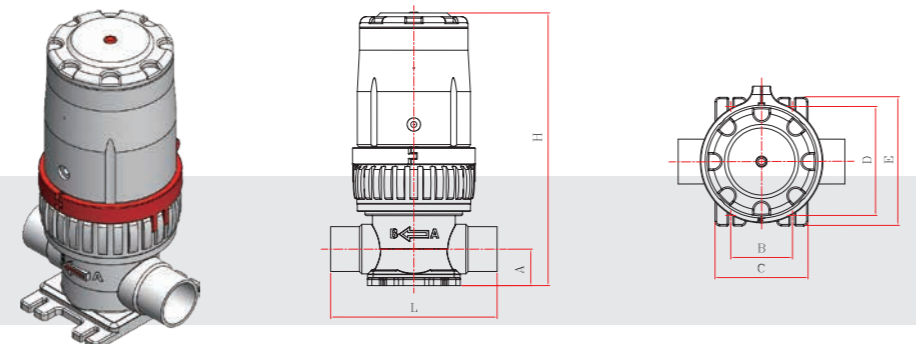
FERRULE TYPE - MASTER® LOCK



PIPE TYPE



PIPE TYPE



FLARE TYPE - FINE THREAD TYPE

단위 : mm

SIZE	P/N	Orifice	CV	A	H	L	B	C	D	E
1/4"	GPV-FF-04	4.5	0.5	18	118	118	29	41	48	63
3/8"	GPV-FF-06	6.9	1.1	18	118	120.5	29	41	48	63
1/2"	GPV-FF-08	10	1.8	22	124.5	131	34	46	55	70
3/4"	GPV-FF-12	16.4	5.8	30	152.5	151	44	57	65	80
1"	GPV-FF-16	22.8	11	30	184.5	178.5	61	75	90.5	110

FERRULE TYPE - SUPERIOR MASTER® LOCK

단위 : mm

SIZE	P/N	Orifice	CV	A	H	L	B	C	D	E
1/4"	GPV-SMFR-04	4.5	0.5	18	118	100	29	41	48	63
3/8"	GPV-SMFR-06	6.9	1.1	18	118	110	29	41	48	63
1/2"	GPV-SMFR-08	10	1.8	22	124.5	120.5	34	46	55	70
3/4"	GPV-SMFR-12	16.4	5.8	30	152.5	143	44	57	65	80
1"	GPV-SMFR-16	22.8	11	30	184.5	170.5	61	75	90.5	110

FERRULE TYPE - MASTER® LOCK

단위 : mm

SIZE	P/N	Orifice	CV	A	H	L	B	C	D	E
1/4"	GPV-FR-04	4.5	0.5	18	118	100	29	41	48	63
3/8"	GPV-FR-06	6.9	1.1	18	118	110	29	41	48	63
1/2"	GPV-FR-08	10	1.8	22	124.5	120.5	34	46	55	70
3/4"	GPV-FR-12	16.4	5.8	30	152.5	143	44	57	65	80
1"	GPV-FR-16	22.8	11	30	184.5	170.5	61	75	90.5	110
1-1/4"	GPV-FR-20	28	14	38	212	213	61	75	89.5	107

FERRULE TYPE - MASTER® LOCK

단위 : mm

SIZE	P/N	Orifice	CV	A	H	L	B	C	D	E
1-1/2" (38.1)	GPV-FR-24	33.7	20.7	40	255.5	221	79	95	107.5	127
1-1/2" (40)	GPV-FR-24-40	33.7	20.7	40	255.5	221	79	95	107.5	127
2"	GPV-FR-32	46	40.25	49	366.5	289	83	125	149.5	173

PIPE TYPE

단위 : mm

SIZE	P/N	Orifice	CV	A	H	L	B	C	D	E
15A	GPV-P-15	16.4	5.3	30	152.5	136	44	57	65	80
20A	GPV-P-20	21	9	30	184.5	138	61	75	90.5	110
25A	GPV-P-25	26.6	14.6	30	204.5	150	61	75	89.5	107

PIPE TYPE

단위 : mm

SIZE	P/N	Orifice	CV	A	H	L	B	C	D	E
40A	GPV-P-40	40.86	38.3	49	366.5	224	83	125	149.5	173
50A	GPV-P-50	52.5	51.5	49	366.5	224	83	125	149.5	173

ACA MANUAL VALVE

Absolute Chemical Application

ACA 밸브는 불소수지만을 사용하여 제작되었으며, 고순도의 약액 이송 배관에 최적화하여 설계된 제품입니다.

ACA Manual valve is made only of fluoropolymer material and is designed to generate optimal performance in handling high-purity chemicals.

ORDERING INFORMATION

AMV - □□□□ - □□

1. Product Name

ACA Manual Valve

2. Connection Type

- FF : Flare Type - Fine Thread
- FR : Ferrule Type
- SMFR : Superior Master® Lock (Ferrule Type)
- P : Pipe Type

3. Code_Size

- 04 1/4"
- 06 3/8"
- 08 1/2"
- 12 3/4"
- 16 1"
- 20 1-1/4"
- 15 15A
- 20 20A
- 25 25A

EXAMPLE

AMV - P - 15

- ① AMV : ACA Manual Valve
- ② P : Pipe Weld Type
- ③ 15 : 15A



MAJOR FUNCTIONS AND FEATURES

1. 고순도의 불소수지 재료로만 제작된 밸브이며, Chemical 적용시 오염 및 부식이 발생하지 않는다.
 2. Valve의 변형방지 및 기밀 향상을 위해 Bonnet 구조의 일체조립으로 접점기밀 유지
 3. 안전장치인 Bonnet Lock, Nut Lock 구성 / 임의의 풀림 방지
 4. 식별 용이한 Up/Down Indicator 적용 / 눈금표시로 유량확인
 5. Connection Type은 Flare, Ferrule, Pipe로 다양한 배관 구성 가능
1. Made only of high-purity Fluoropolymer material and is designed to generate optimal performance in handling high-purity chemicals.
 2. Bonnet is screwed onto the body(All-in-one assembly) to prevent valve deformation and improve airtightness.
 3. The Bonnet Lock and fitting Nut Lock stabilize and prevent loosening of valve components adding additional safety.
 4. Visually identifiable on and off indicator for precise valve operation
 5. Multi connection types available - flare, ferrule, and pipe connections

TECHNICAL SPECIFICATIONS

1. Actuator Type

Manual Handle Operation

2. Configuration

2-Way Flow / Orifice Type

3. Port Connection & Port Size

PFA VALVE	ACTUATOR TYPE	CONNECTION TYPE	SIZE
ACA SERIES	MANUAL VALVE	Flare - Fine Thread	1/4"~1"
		Ferrule - Master® Lock	1/4"~1-1/4"
		Ferrule - Superior Master® Lock	1/4"~1" ※Progress up to 1-1/4"
		Pipe	15A~25A

4. Operating Specification

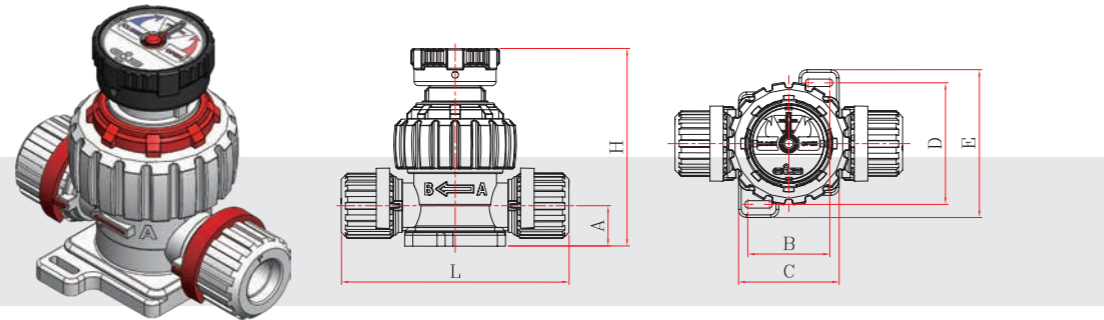
Operating Temperature	Maximum Operating Pressure
0~90°C	9kg/cm²(0.9Mpa)
90~120°C	7kg/cm²(0.7Mpa)

5. Material Construction

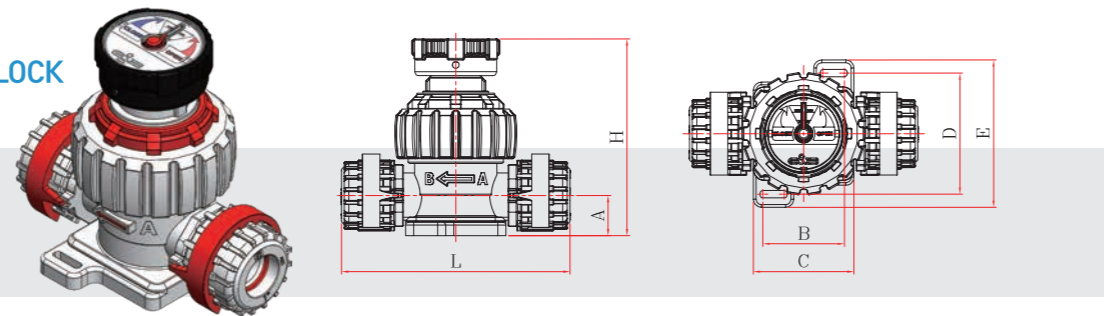
- Body : High Purity PFA
- Diaphragm : Modified PTFE
- Other Part : PVDF

ACA MANUAL VALVE DIMENSION TABLE

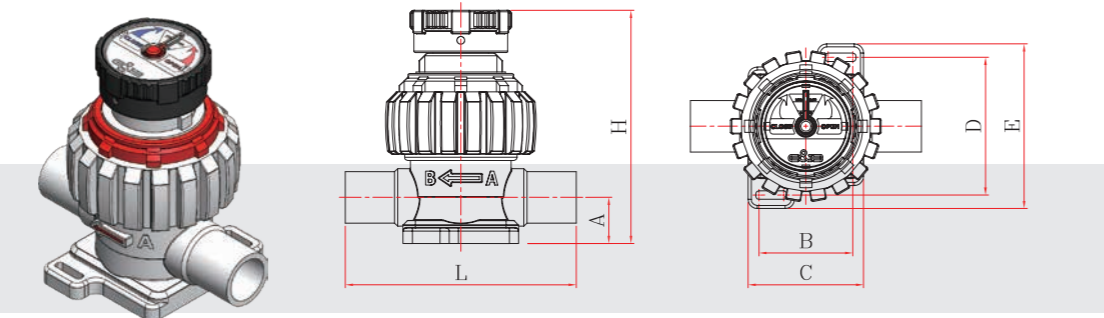
FLARE TYPE
- FINE THREAD TYPE



FERRULE TYPE
- SUPERIOR MASTER® LOCK
- MASTER® LOCK



PIPE TYPE



FLARE TYPE - FINE THREAD TYPE

단위 : mm

SIZE	P/N	Orifice	CV	A	H	L	B	C	D	E
1/4"	AMV-FF-04	4.5	0.5	18	92.5	118	29	41	48	63
3/8"	AMV-FF-06	6.9	1.1	18	92.5	120.5	29	41	48	63
1/2"	AMV-FF-08	10	1.8	22	107	131	34	46	55	70
3/4"	AMV-FF-12	16.4	5.8	30	134	151	44	57	65	80
1"	AMV-FF-16	22.8	11	30	147	178.5	61	75	90.5	110

FERRULE TYPE - SUPERIOR MASTER® LOCK

단위 : mm

SIZE	P/N	Orifice	CV	A	H	L	B	C	D	E
1/4"	AMV-SMFR-04	4.5	0.5	18	92.5	100	29	41	48	63
3/8"	AMV-SMFR-06	6.9	1.1	18	92.5	110	29	41	48	63
1/2"	AMV-SMFR-08	10.0	1.8	22	107	120.5	34	46	55	70
3/4"	AMV-SMFR-12	16.4	5.8	30	134	143	44	57	65	80
1"	AMV-SMFR-16	22.8	11	30	147	170.5	61	75	90.5	110

FERRULE TYPE - MASTER® LOCK

단위 : mm

SIZE	P/N	Orifice	CV	A	H	L	B	C	D	E
1/4"	AMV-FR-04	4.5	0.5	18	92.5	100	29	41	48	63
3/8"	AMV-FR-06	6.9	1.1	18	92.5	110	29	41	48	63
1/2"	AMV-FR-08	10	1.8	22	107	120.5	34	46	55	70
3/4"	AMV-FR-12	16.4	5.8	30	134	143	44	57	65	80
1"	AMV-FR-16	22.8	11	30	147	170.5	61	75	90.5	110
1-1/4"	AMV-FR-20	28	14	38	159.5	213	61	75	89.5	107

PIPE TYPE

단위 : mm

SIZE	P/N	Orifice	CV	A	H	L	B	C	D	E
15A	AMV-P-15	16.4	5.3	30	134	136	44	57	65	80
20A	AMV-P-20	21	9	30	147	138	61	75	90.5	110
25A	AMV-P-25	26.6	14.6	30	151.5	150	61	75	89.5	107

ACA PNEUMATIC VALVE

Absolute Chemical Application

ACA 밸브는 불소수지만을 사용하여 제작되었으며, 고순도의 약액 이송 배관에 최적화하여 설계된 제품입니다.

ACA Pneumatic valve's all wetted parts are made of PFA material, and the valve is designed to generate optimal performance in handling high-purity chemicals.

ORDERING INFORMATION

APV - □□□□ - □□ - □□

1. Product Name
ACA Pneumatic Valve

2. Connection Type

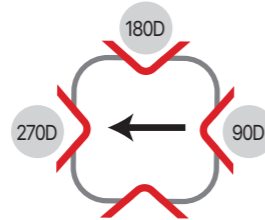
- FF : Flare Type - Fine Thread
- FR : Ferrule Type
- SMFR : Superior Master Lock (Ferrule Type)
- P : Pipe Type

3. Code_Size

- 04 1/4"
- 06 3/8"
- 08 1/2"
- 12 3/4"
- 16 1"
- 20 1-1/4"
- 15 15A
- 20 20A
- 25 25A

4. Position Air Hole

- () Front Direction
- 90D 90 Degree
- 180D 180 Degree
- 270D 270 Degree



EXAMPLE

APV - SMFR - 04

- ① APV : ACA Pneumatic Valve
- ② SMFR : Superior Master® Lock (Ferrule)
- ③ 04 : 1/4"



MAJOR FUNCTIONS AND FEATURES

1. 고순도의 불소수지 재질로만 제작된 밸브이며, Chemical 적용시 오염 및 부식이 발생하지 않는다.
 2. Valve의 변형방지 및 기밀 향상을 위해 Bonnet 구조의 일체조립으로 접점기밀 유지
 3. 안전장치인 Bonnet Lock, Nut Lock 구성 / 임의의 풀림 방지
 4. 식별 용이한 Up/Down Indicator 적용 / 눈금표시로 유량확인
 5. Connection Type은 Flare, Ferrule, Pipe로 다양한 배관 구성 가능
1. Made only of high-purity Fluoropolymer material and is designed to generate optimal performance in handling high-purity chemicals.
 2. Bonnet is screwed onto the body(All-in-one assembly) to prevent valve deformation and improve airtightness.
 3. The Bonnet Lock and fitting Nut Lock stabilize and prevent loosening of valve components adding additional safety.
 4. Visually identifiable on and off indicator for precise valve operation
 5. Multi connection types available - flare, ferrule, and pipe connections

TECHNICAL SPECIFICATIONS

1. Actuator Type

Pneumatic Air Operation

2. Configuration

2-Way Flow / Orifice Type

3. Port Connection & Port Size

PFA VALVE	ACTUATOR TYPE	CONNECTION TYPE	SIZE
ACA SERIES	PNEUMATIC VALVE	Flare - Fine Thread	1/4"~1"
		Ferrule - Master® Lock	1/4"~1-1/4"
		Ferrule - Superior Master® Lock	1/4"~1" <small>*Progress up to 1-1/4"</small>
		Pipe	15A~25A

4-1. Operating Specification

Operating Temperature	Maximum Operating Pressure
0~90°C	9kg/cm ² (0.9Mpa)
90~120°C	7kg/cm ² (0.7Mpa)

4-2. Product Warranty

Size	Maximum Pressure Cutoff	Max. Close seal pressure while fluid flow (양방향압력)	Guarantee Cycle
1/4"~1-1/4"	6 kg/cm ²	6 kg/cm ²	300,000
15A~25A			

5. Air Port

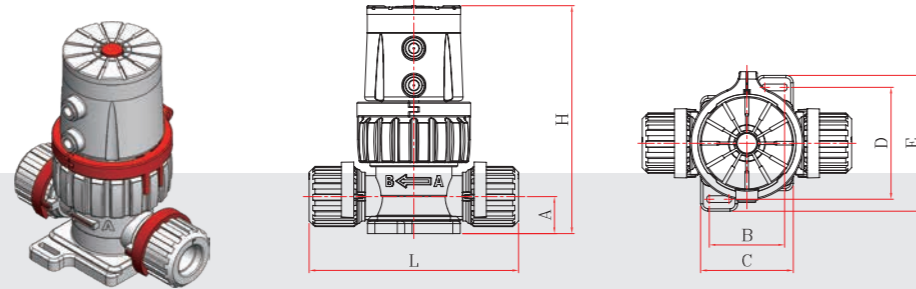
1/8"PT (FEMALE) / Minimum 6 ~ Maximum 7kg/cm²(86~100 psi)

6. Material Construction

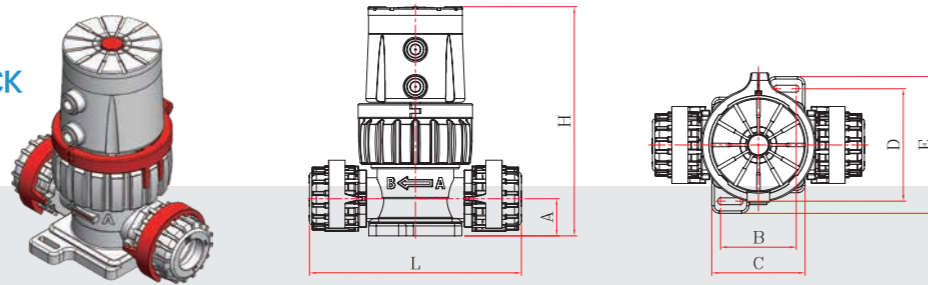
Body : High Purity PFA
Diaphragm : Modified PTFE
Other Part : PVDF, PP, Rubber O ring, STS Spring

ACA PNEUMATIC VALVE DIMENSION TABLE

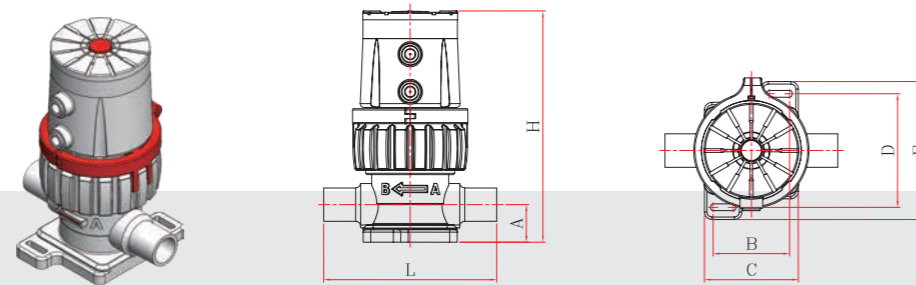
FLARE TYPE
- FINE THREAD



FERRULE TYPE
- SUPERIOR MASTER® LOCK
- MASTER® LOCK



PIPE TYPE



FLARE TYPE - FINE THREAD TYPE

단위 : mm

SIZE	P/N	Orifice	CV	A	H	L	B	C	D	E
1/4"	APV-FF-04	4.5	0.5	18	118	118	29	41	48	63
3/8"	APV-FF-06	6.9	1.1	18	118	120.5	29	41	48	63
1/2"	APV-FF-08	10	1.8	22	124.5	131	34	46	55	70
3/4"	APV-FF-12	16.4	5.8	30	152.5	151	44	57	65	80
1"	APV-FF-16	22.8	11	30	184.5	178.5	61	75	90.5	110

FERRULE TYPE - SUPERIOR MASTER® LOCK

단위 : mm

SIZE	P/N	Orifice	CV	A	H	L	B	C	D	E
1/4"	APV-SMFR-04	4.5	0.5	18	118	100	29	41	48	63
3/8"	APV-SMFR-06	6.9	1.1	18	118	110	29	41	48	63
1/2"	APV-SMFR-08	10	1.8	22	124.5	120.5	34	46	55	70
3/4"	APV-SMFR-12	16.4	5.8	30	152.5	143	44	57	65	80
1"	APV-SMFR-16	22.8	11	30	184.5	170.5	61	75	90.5	110

FERRULE TYPE - MASTER® LOCK

단위 : mm

SIZE	P/N	Orifice	CV	A	H	L	B	C	D	E
1/4"	APV-FR-04	4.5	0.5	18	118	100	29	41	48	63
3/8"	APV-FR-06	6.9	1.1	18	118	110	29	41	48	63
1/2"	APV-FR-08	10	1.8	22	124.5	120.5	34	46	55	70
3/4"	APV-FR-12	16.4	5.8	30	152.5	143	44	57	65	80
1"	APV-FR-16	22.8	11	30	184.5	170.5	61	75	90.5	110
1-1/4"	APV-FR-20	28	14	38	212	213	61	75	89.5	107

PIPE TYPE

단위 : mm

SIZE	P/N	Orifice	CV	A	H	L	B	C	D	E
15A	APV-P-15	16.4	5.3	30	152.5	136	44	57	65	80
20A	APV-P-20	21	9	30	184.5	138	61	75	90.5	110
25A	APV-P-25	26.6	14.6	30	204.5	150	61	75	89.5	107

WT SERIES VALVE

Weir Type

WT 밸브는 불소수지만을 사용하여 제작되었으며, 고순도 약액과 Slurry 약액 이송 배관에 최적화하여 설계된 제품이다.

WT valve is made only of fluoropolymer material and is designed to generate optimal performance in handling high-purity chemicals an slurry chemicals.

ORDERING INFORMATION

WT - □□□ - □□ - □□□□□□□□ - □□

1. Product Name
Weir Type Valve

2. Actuator Type

GMV : Manual Valve - GCA Type
GPV : Pneumatic Valve - GCA Type

3. Connection Type

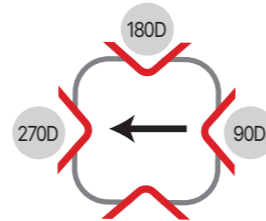
FF : Flare Type - Fine Thread

4. Size

2-Way	04	1/4"
	06	3/8"
	08	1/2"
	12	3/4"
3-Way	120812	3/4"X1/2"X3/4"
	121212	3/4"X3/4"X3/4"
	161216	1"X3/4"X1"
	161616	1"X1"X1"

5. Position Air Hole (For Pneumatic Valve)

○ Front Direction
90D 90 Degree
180D 180 Degree
270D 270 Degree



EXAMPLE

WT-GMV-FF-161216

- ① WT : Weir Type
- ② GMV : Manual Valve - GCA Type
- ③ FF : Flare Type - Fine Thread
- ④ 161216 : 1"X3/4"X1"

EXAMPLE

WT-GPV-FF-16-90D

- ① WT : Weir Type
- ② GPV : Pneumatic Valve - GCA Type
- ③ FF : Flare Type - Fine Thread
- ④ 16 : 1"
- ⑤ 90D : 90 Degree



MAJOR FUNCTIONS AND FEATURES

- 고순도의 불소수지 재질로만 제작된 밸브이며, Chemical 적용시 오염 및 부식이 발생하지 않는다.
- Valve의 변형방지 및 기밀 향상을 위해 Bonnet 구조의 일체조립으로 접점기밀 유지
- 안전장치인 Bonnet Lock, Nut Lock 구성 / 임의의 풀림 방지
- 식별 용이한 Up/Down Indicator 적용
- Connection Type은 Flare으로 배관 구성 가능
- Made only of high-purity Fluoropolymer material and is designed to generate optimal performance in handling high-purity chemicals.
- Bonnet is screwed onto the body(All-in-one assembly) to prevent valve deformation and improve airtightness.
- The Bonnet Lock and fitting Nut Lock stabilize and prevent loosening of valve components adding additional safety.
- Visually identifiable on and off indicator for precise valve operation
- Connection types available - flare connections

TECHNICAL SPECIFICATIONS

1. Actuator Type

Manual Handle Operation
Pneumatic Air Operation

2. Configuration

2-Way Flow / Weir Type
3-Way Flow / Weir Type

3. Port Connection & Port Size

PFA VALVE	ACTUATOR TYPE	CONNECTION TYPE	SIZE
WT SERIES	MANUAL VALVE	Flare - Fine Thread	1/4"~1"
	PNEUMATIC VALVE	Flare - Fine Thread	1/4"~1"

4. Operating Specification

Operating Temperature	Maximum Operating Pressure
0~60°C	7kg/cm ² (0.7Mpa)
60~90°C	5kg/cm ² (0.5Mpa)
90~120°C	3kg/cm ² (0.3Mpa)

5. Air Port

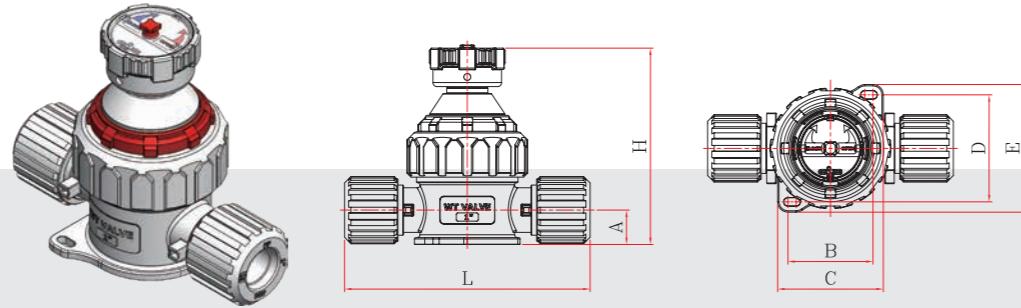
- 1/8"PT (FEMALE)
- Minimum 6~ Maximum 7Kg/cm²(86~100psi)

6. Material Construction

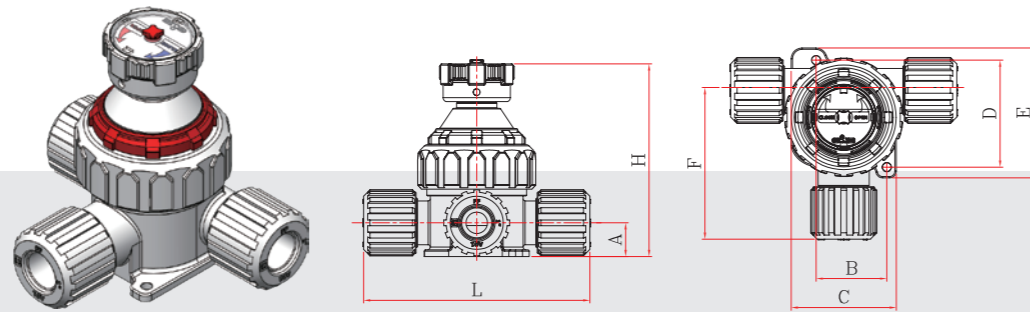
Body : High Purity PFA
Diaphragm : Modified PTFE
Other Part : PVDF

WT MANUAL VAVLE DIMENSION TABLE

FLARE TYPE
- FINE THREAD
- 2-WAY FLOW

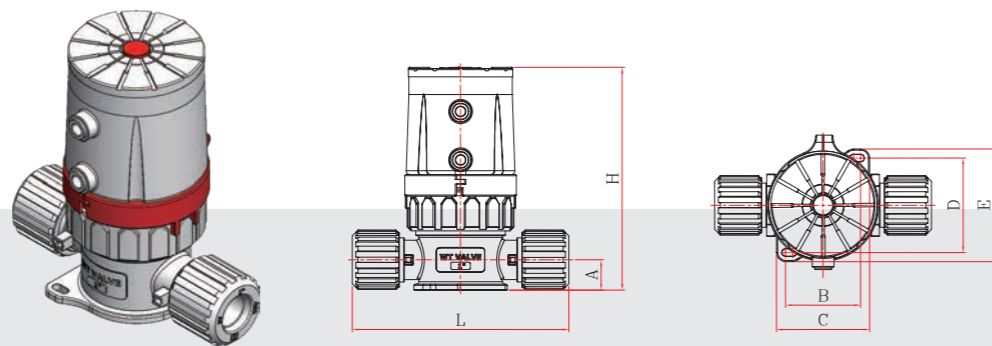


FLARE TYPE
- FINE THREAD
- 3-WAY FLOW

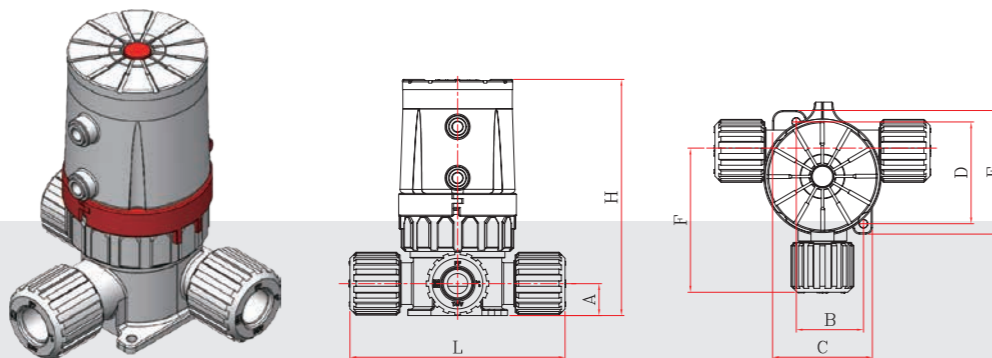


WT PNEUMATIC VAVLE DIMENSION TABLE

FLARE TYPE
- FINE THREAD
- 2-WAY FLOW



FLARE TYPE
- FINE THREAD
- 3-WAY FLOW



MANUAL FLARE TYPE - FINE THREAD TYPE / 2-WAY

단위 : mm

SIZE	P/N	CV	A	H	L	B	C	D	E
1/4"	WT-GMV-FF-04	0.5	18	92.5	118	29	41	48	63
3/8"	WT-GMV-FF-06	1.1	18	92.5	120.5	29	41	48	63
1/2"	WT-GMV-FF-08	1.8	22	107	131	34	46	55	70
3/4"	WT-GMV-FF-12	5.8	30	134	151	44	57	65	80
1"	WT-GMV-FF-16	11	30	147	178.5	61	75	90.5	110

MANUAL FLARE TYPE - FINE THREAD TYPE / 3-WAY

단위 : mm

SIZE	P/N	CV	A	H	L	B	C	D	E	F
3/4"X1/2"X3/4"	WT-GMV-FF-120812		19	112.5	133.8	41.5	59	61.5	77	82.2
3/4"X3/4"X3/4"	WT-GMV-FF-121212		19	112.5	133.8	41.5	59	61.5	77	87.5
1"X3/4"X1"	WT-GMV-FF-161216		25	143	168	52.5	78	79.5	96.5	108.5
1"X1"X1"	WT-GMV-FF-161616		25	143	168	52.5	78	79.5	96.5	114.5

PNEUMATIC FLARE TYPE - FINE THREAD TYPE / 2-WAY

단위 : mm

SIZE	P/N	CV	A	H	L	B	C	D	E
1/4"	WT-GPV-FF-04	0.5	18	92.5	118	29	41	48	63
3/8"	WT-GPV-FF-06	1.1	18	92.5	120.5	29	41	48	63
1/2"	WT-GPV-FF-08	1.8	22	107	131	34	46	55	70
3/4"	WT-GPV-FF-12	5.8	30	134	151	44	57	65	80
1"	WT-GPV-FF-16	11	30	147	178.5	61	75	90.5	110

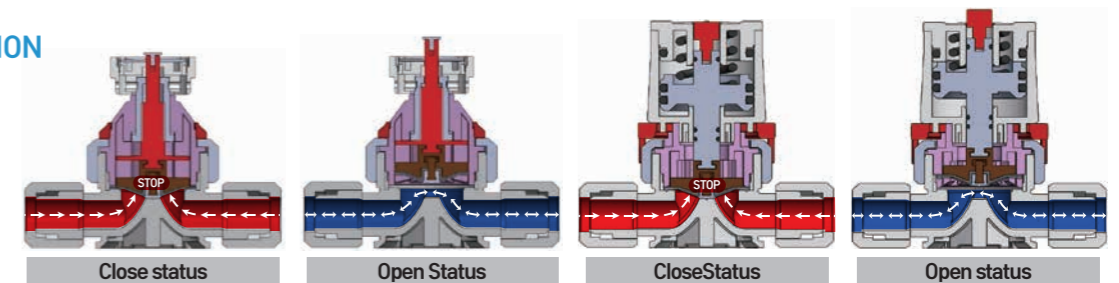
PNEUMATIC FLARE TYPE - FINE THREAD TYPE / 3-WAY

단위 : mm

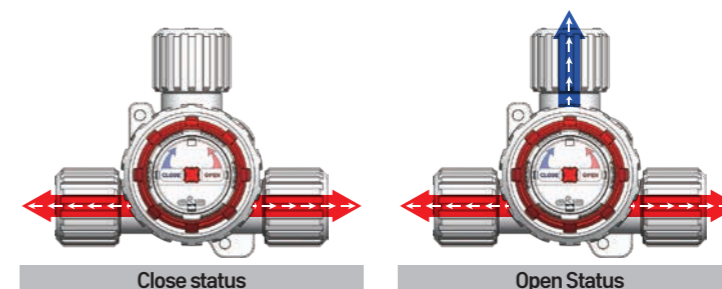
SIZE	P/N	CV	A	H	L	B	C	D	E	F
3/4"X1/2"X3/4"	WT-GPV-FF-120812		19	152.5	133.8	41.5	59	61.5	77	82.2
3/4"X3/4"X3/4"	WT-GPV-FF-121212		19	152.5	133.8	41.5	59	61.5	77	87.5
1"X3/4"X1"	WT-GPV-FF-161216		25	184	168	52.5	78	79.5	96.5	108.5
1"X1"X1"	WT-GPV-FF-161616		25	184	168	52.5	78	79.5	96.5	114.5

FLOW DIRECTION

2-WAY FLOW PATTERNS



3-WAY FLOW PATTERNS



VT MANUAL VALVE

VMB Tee Valve

VT 밸브는 불소수지만을 사용하여 제작되었으며, 고순도의 약액 이송 배관에 최적화하여 설계된 제품입니다.

VT Manual valve is made only of fluoropolymer material and is designed to generate optimal performance in handling high-purity chemicals

ORDERING INFORMATION

VT - □□□ - P - 20 - □□□

1. Product Name

VT Valve

2. Valve Type

AMV : ACA Type Manual Valve
GMV : GCA Type Manual Valve

3. Connection Type

P : Pipe

4. Code_Size

20 : 20A

5. Flow Direction

INLET
HOOK-UP
SPARE
DRAIN

EXAMPLE

VT - AMV - P - 20 - INLET

- ① VT : VT Valve
- ② AMV : ACA Type Manual Valve
- ③ P : Pipe
- ④ 20 : 20A
- ⑤ INLET : INLET



MAJOR FUNCTIONS AND FEATURES

1. ACA 또는 GCA 타입으로 생산 가능
 2. Valve의 변형방지 및 기밀 향상을 위해 Bonnet 구조의 일체조립으로 접점기밀 유지
 3. ACA Type의 경우, 강산 또는 강염기성 유체에 적합한 모델 / 기존 PVDF 부품을 PFA로 교체하여 FUME에 의한 내성 강화
 4. 안전장치인 Bonnet Lock, Nut Lock 구성 / 임의의 풀림 방지
 5. 식별 용이한 Up/Down Indicator 적용 / 눈금표시로 유량확인
 6. VMB Unit 구성의 설계에 적합하다
1. Dual valve types available – ACA, GCA Valve type
 2. Bonnet is screwed onto the body(All-in-one assembly) to prevent valve deformation and improve airtightness.
 3. In case of AMV type, Suitable for handling strong acid and for preventing discoloration of non-flow stream components from chemical fume. Key parts are made of PFA material- valve body, bonnet, and fitting nut
 4. Bonnet Lock and fitting Nut Lock stabilize and prevent loosening of valve components adding additional safety
 5. Visually identifiable on and off indicator for precise valve operation
 6. Suitable for VMB systems

TECHNICAL SPECIFICATIONS

- 1. Actuator Type**
Manual Handle Operation
- 2. Configuration**
3-Way Flow / Orifice Type
- 3. Port Connection & Port Size**
ENIB Pipe Weld / 20A
- 4. Operating Specification**

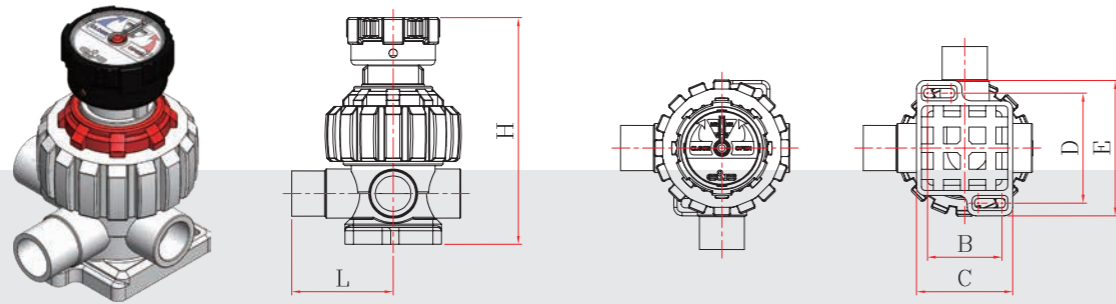
Operating Temperature	Maximum Operating Pressure
0~90°C	9kg/cm ² (0.9Mpa)
90~120°C	7kg/cm ² (0.7Mpa)

5. Material Construction

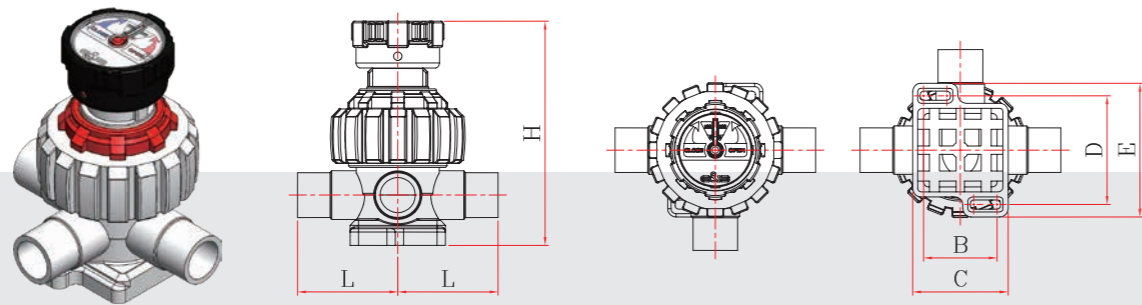
ACA Type	Body	: High Purity PFA
	Diaphragm	: Modified PTFE
	Bonnet	: High Purity PFA
	Bonnet Sleeve	: High Purity PFA
GCA Type	Body	: High Purity PFA
	Diaphragm	: Modified PTFE
	Other	: PVDF

VT MANUAL VALVE DIMENSION TABLE

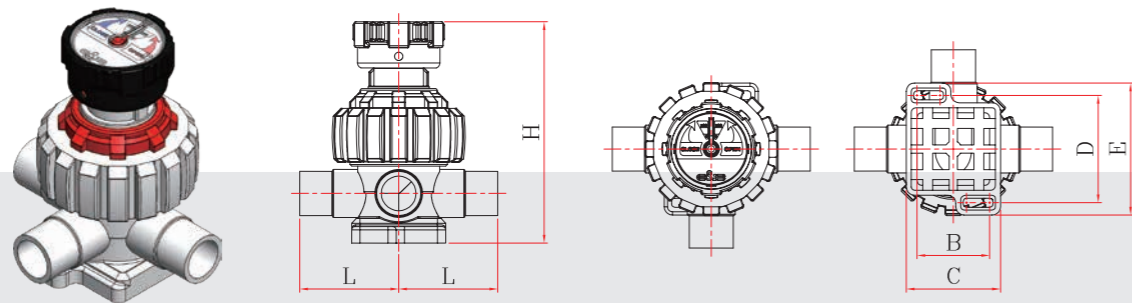
INLET



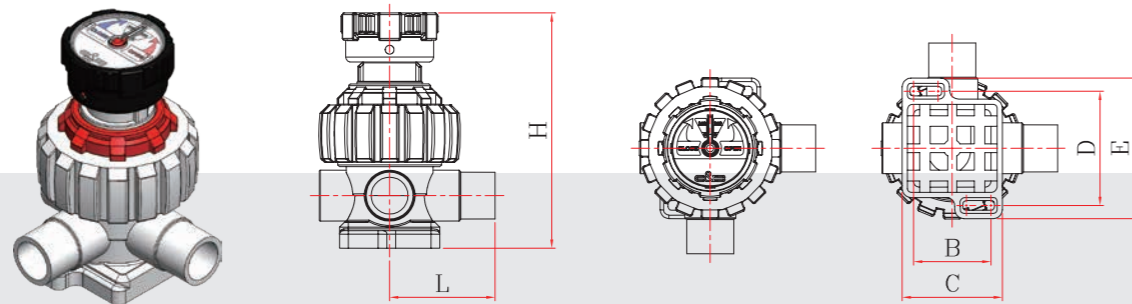
HOOK-UP



SPARE



DRAIN

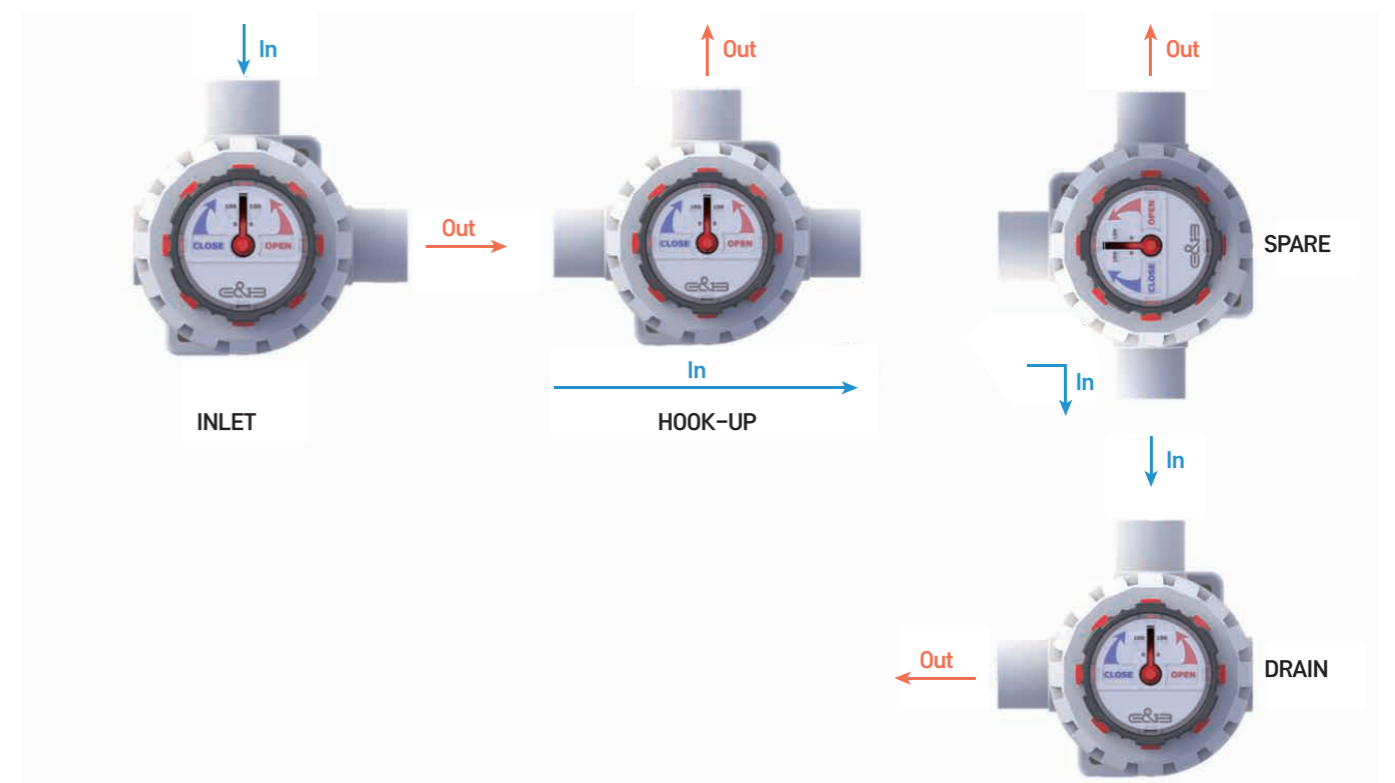


PIPE TYPE

단위 : mm

SIZE	P/N	Orifice	CV	A	H	L	B	C	D	E
20A	VT-AMV-P-20-INLET	21	5.14	30	134	60	44	57	65	80
	VT-AMV-P-20-HOOK-UP	21	4.88	30	134	60	44	57	65	80
	VT-AMV-P-20-SPARE	21	5.14	30	134	60	44	57	65	80
	VT-AMV-P-20-DRAIN	21	5.31	30	134	60	44	57	65	80
20A	VT-GMV-P-20-INLET	21	5.14	30	134	60	44	57	65	80
	VT-GMV-P-20-HOOK-UP	21	4.88	30	134	60	44	57	65	80
	VT-GMV-P-20-SPARE	21	5.14	30	134	60	44	57	65	80
	VT-GMV-P-20-DRAIN	21	5.31	30	134	60	44	57	65	80

FLOW DIRECTION



CT MANUAL VALVE

Cross Tee Valve [Patent No.:10-2165849]

CT 밸브는 불소수지로만 사용하여 제작되었으며, 고순도의 약액 이송 배관에 최적화하여 설계된 제품입니다.

CT Manual valve is made only of fluoropolymer material and is designed to generate optimal performance in handling high-purity chemicals

ORDERING INFORMATION

CT - GMV - FR - □□□

1. Product Name
CT Manual Valve

2. Valve Type
GCA Type Manual Valve

3. Connection Type
Ferrule

4. Code_Size

- 1280812 3/4"x1/2"x3/4"
- 121212 3/4"x3/4"x3/4"
- 160816 1"x1/2"x1"
- 161216 1"x3/4"x1"
- 161616 1"x1"x1"
- 240824 1-1/2"x1/2"x1-1/2"
- 241224 1-1/2"x3/4"x1-1/2"
- 241624 1-1/2"x1"x1-1/2"
- 242424 1-1/2"x1-1/2"x1-1/2"

EXAMPLE

CT - GMV - FR - 120812

- ① CT : CT Valve
- ② GMV : GCA Type Manual Valve
- ③ FR : Ferrule
- ④ 1280812 : 3/4"x1/2"x3/4"



MAJOR FUNCTIONS AND FEATURES

1. CT Valve는 Valve Body와 Fitting Tee가 일체형 사출 구조로 (No Welding) Leak Point를 제거하여, 안전성을 확보.
 2. CT Valve는 복수의 Connection (Main Line, Sub Line)이 가능하며, 공간활용도가 높으며, 배관의 구성이 단순화가 가능.
 3. 안전장치인 Bonnet Lock, Nut Lock 구성 / 임의의 풀림 방지
 4. 식별 용이한 Up/down Indicator 적용 / 눈금표시로 유량확인
 5. 배관 Piping Unit 구성 설계에 적합하다.
1. CT Valve secures safety by removing the LEAK POINT with the integral injection structure of the valve body and fitting tee.
 2. CT Valve has multiple connections (Main Line, Sub Line), so space utilization is high, and piping configuration can be simplified.
 3. Bonnet Lock and fitting Nut Lock stabilize and prevent loosening of valve components adding additional safety
 4. Visually identifiable on and off indicator for precise valve operation
 5. Suitable for piping unit configuration design

TECHNICAL SPECIFICATIONS

1. Actuator Type
Manual Handle Operation
2. Configuration
3-Way Flow / Orifice Type
3. Port Connection & Port Size

PFA VALVE	ACTUATOR TYPE	CONNECTION TYPE	SIZE
CT VALVE	MANUAL VALVE	Ferrule - Master® Lock	1/2", 3/4", 1", 1-1/2"
		Ferrule - Superior Master® Lock	1/2", 3/4", 1"

※ Progress up to 2"

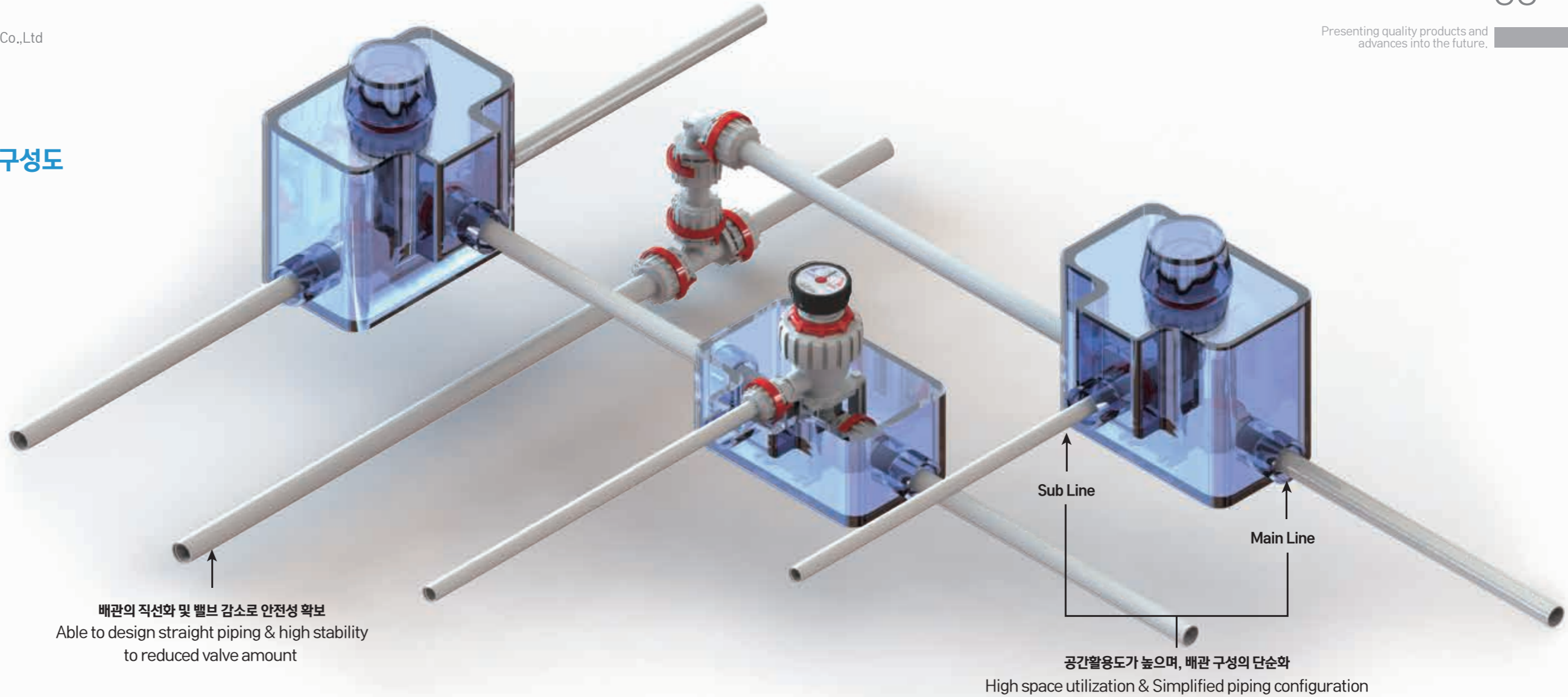
4. Operating Specification

Operating Temperature	Maximum Operating Pressure
0~90°C	9kg/cm ² (0.9Mpa)
90~120°C	7kg/cm ² (0.7Mpa)

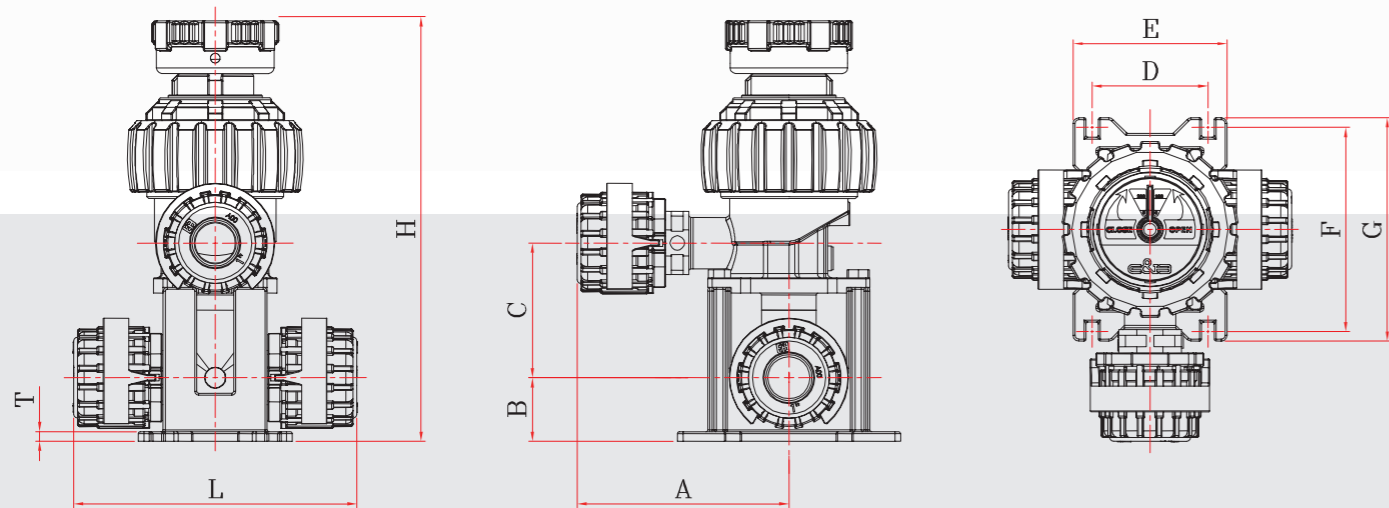
5. Material Construction

Body : High Purity PFA
Diaphragm : Modified PTFE
Other Part : PVDF

CT VALVE 적용 배관 구성도



CT MANUAL VALVE DIMENSION TABLE



DIMENSION TABLE * Superior Master® Lock Type 적용 가능(1/4"~1") - ex. CT-GMV-SMFR - □□□□□□ 단위 : mm

SIZE	P/N	CV	Orifice	L	H	A	B	C	D	E	F	G	T
3/4"x1/2"x3/4"	CT-GMV-FR-120812	3.32	22.8	133	220	97	33	70	60	80	106	116	5
3/4"x3/4"x3/4"	CT-GMV-FR-121212	6.36	22.8	133	220	103	33	70	60	80	106	116	5
1"x1/2"1"	CT-GMV-FR-160816	3.45	22.8	147	220	97	33	70	60	80	106	116	5
1"x3/4"x1"	CT-GMV-FR-161216	7.35	22.8	147	220	103	33	70	60	80	106	116	5
1"x1"x1"	CT-GMV-FR-161616	8.85	22.8	147	220	110	33	70	60	80	106	116	5
1-1/2"x1/2"x1-1/2"	CT-GMV-FR-240824	3.41	22.8	174	228	97	41	70	60	80	106	116	5
1-1/2"x3/4"x1-1/2"	CT-GMV-FR-241224	7.22	22.8	174	228	103	41	70	60	80	106	116	5
1-1/2"x1"x1-1/2"	CT-GMV-FR-241624	9	22.8	174	228	110	41	70	60	80	106	116	5
1-1/2"x1-1/2"x1-1/2"	CT-GMV-FR-242424	23.37	33.7	211	266.5	146	41	92.5	80	100	126	136	5

CHECK VALVE

Check Valve는 불소수지만을 사용하여 제작되었으며, 유체의 역류를 방지하기 위해 설계된 제품이다.
ENIB Check Valve is manufactured using only fluorine resin. The product is designed to prevent chemical backflow.

ORDERING INFORMATION

CV - - -

1. Product Name
Check Valve

2. Connection Type
FF : Flare Type - Fine Thread
FR : Ferrule Type
SMFR : Superior Master® Lock (Ferrule Type)
P : Pipe Type

3. Size
04 1/4"
06 3/8"
08 1/2"
12 3/4"
16 1"
20 1-1/4"
24 1-1/2"
32 2"
32S32 2" - in-Saver / out Ferrule
3232S 2" - in-Ferrule / out Saver
32S32S 2" - in-Saver / out Saver
15 15A
20 20A
25 25A
40 40A
50 50A

4. Body Type
A PTFE Body (Flare Type Only)
B PFA Body

EXAMPLE
CV-FR-16-B
 ① CV : Check Valve
 ② FR : Ferrule Type
 ③ 16 : 1"
 ④ B : PFA Body

MAJOR FUNCTIONS AND FEATURES

- 고순도의 불소수지 재질로만 제작된 밸브이며, Chemical 적용시 오염 및 부식이 발생하지 않는다.
- 진공에 의한 변형 방지형 Cone Type Disc를 사용
- 안전장치인 Steady Lock 구성 / 임의의 풀림 방지

- Made only of high-purity Fluoropolymer material and is designed to generate optimal performance in handling high-purity chemicals.
- The cone shaped disk prevents deformation from vacuum pressure
- Steady Lock prevents accidental loosening of the valve assembly.



TECHNICAL SPECIFICATIONS

- 1. Valve Type**
In-line Type
- 2. Configuration**
2-Way Flow / Cone Type Disc

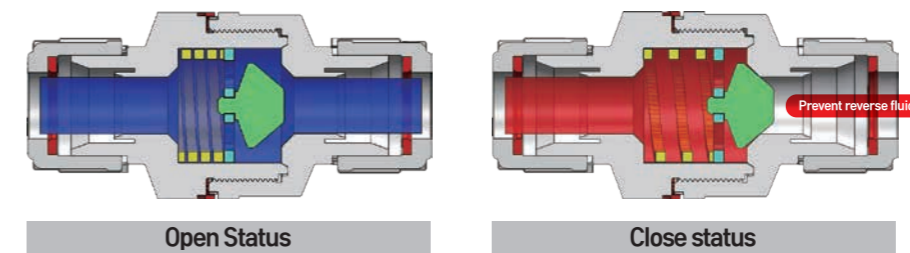
3. Port Connection & Port Size

PFA VALVE	Body Type	CONNECTION TYPE	SIZE	
Check Valve	PTFE Body	Flare - Fine Thread	1/4"~1"	
		Flare - Fine Thread	1/4"~1"	
	MANUAL VALVE	Ferrule - Master® Lock	1/4"~2"	
		Ferrule - Superior Master® Lock	1/4"~1"	
		Pipe		15A~50A

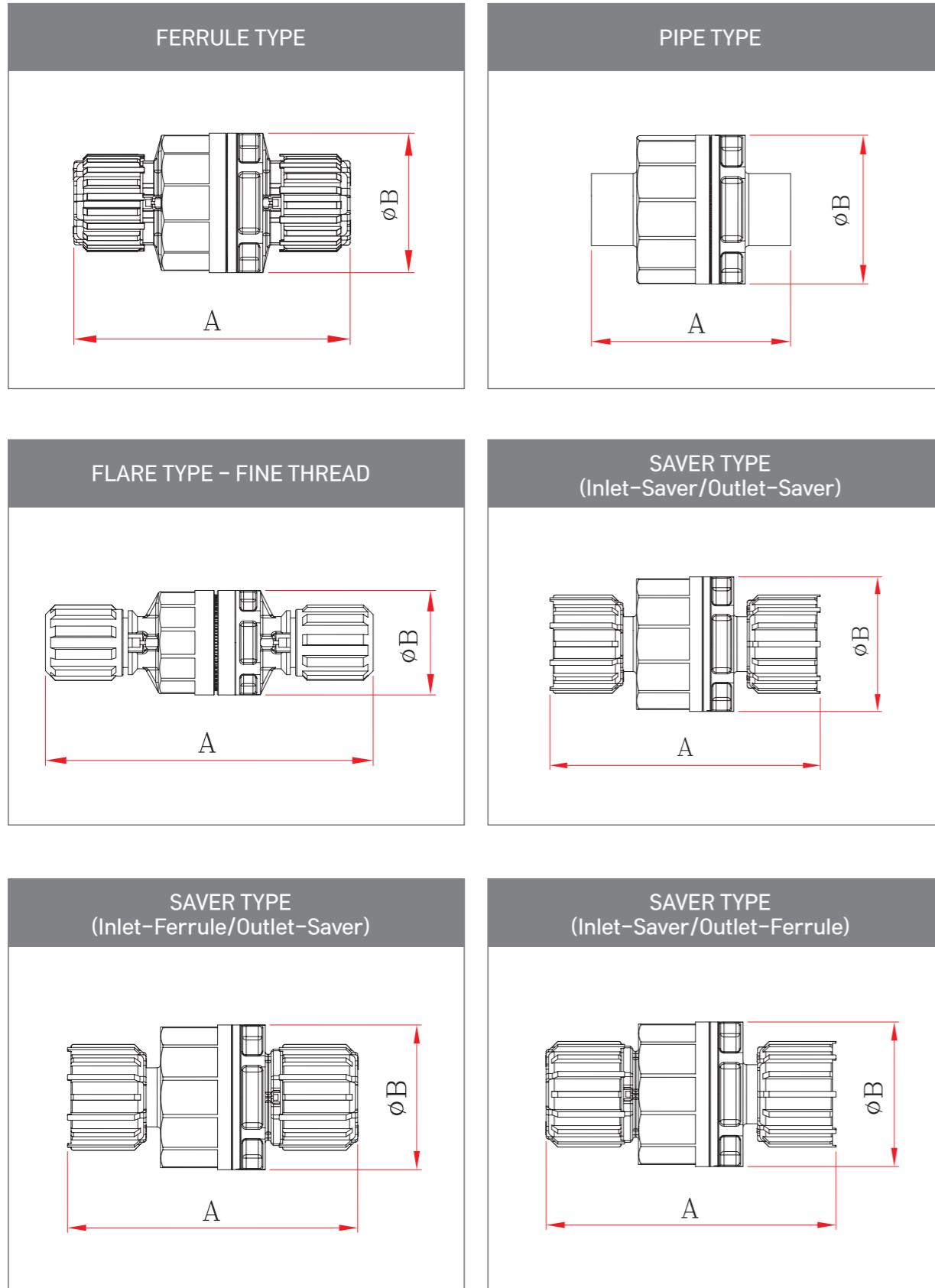
※ Progress up to 2"

- 4. Cracking Pressure**
0.017~0.05bar
- 5. Operating Temperature**
0 ~ 120 °C
- 6. Material Construction**
 Body : High Purity PFA or Modified PTFE
 Diaphragm: Modified PTFE
 Other Part : PTFE, HDPE

2-WAY FLOW PATTERNS



CHECK VAVLE DIMENSION TABLE



FERRULE TYPE (PFA BODY) * Superior Master® Lock Type 적용 가능(1/4"-1") - ex. CV-SMFR - □□ - B

단위 : mm

SIZE	P/N	CV	A	ØB
1/4"	CV-FR-04-B	0.56	100	40
3/8"	CV-FR-06-B	1.58	110	40
1/2"	CV-FR-08-B	3.2	115	40
3/4"	CV-FR-12-B	7.5	136	57
1"	CV-FR-16-B	14.57	159	73
1-1/4"	CV-FR-20-B	22.89	197	99
1-1/2"	CV-FR-24-B	28.09	199	99
2"	CV-FR-32-B	52.78	248.5	124.5

PIPE, SPACE SAVER TYPE (PFA BODY)

단위 : mm

SIZE	P/N	CV	A	ØB
15A	CV-P-15-B	0.56	134	57
20A	CV-P-20-B	1.58	143	73
25A	CV-P-25-B	3.2	150	81
40A	CV-P-40-B	7.5	177.5	124.5
50A	CV-P-50-B	14.57	177.5	124.5
2"(IN, OUT SAVER)	CV-FR-32S32S-B	52.78	256.5	124.5
2"(IN SAVER)	CV-FR-32S32-B	52.78	252.5	124.5
2"(OUT SAVER)	CV-FR-3232S-B	52.78	252.5	124.5

FLARE TYPE - FINE THREAD (PFA BODY)

단위 : mm

SIZE	P/N	CV	A	ØB
1/4"	CV-FF-04-B	0.56	120	40
3/8"	CV-FF-06-B	1.58	122.5	40
1/2"	CV-FF-08-B	3.2	127.5	40
3/4"	CV-FF-12-B	7.5	148	57
1"	CV-FF-16-B	14.57	170	73

FLARE TYPE - FINE THREAD (PTFE BODY)

단위 : mm

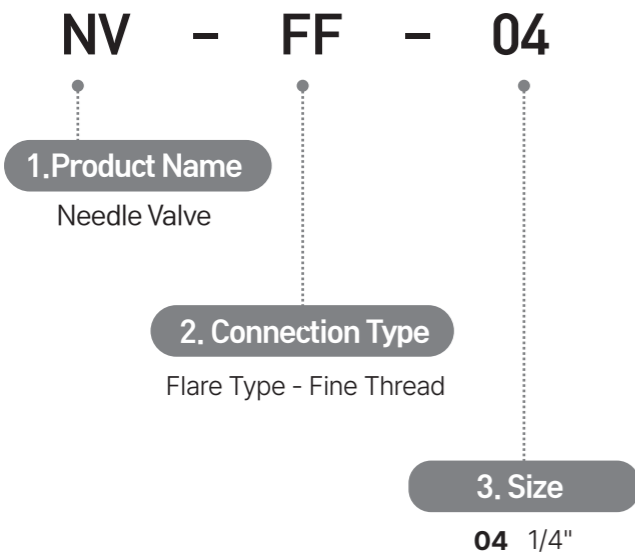
SIZE	P/N	CV	A	ØB
1/4"	CV-FF-04-A	0.56	109	40
3/8"	CV-FF-06-A	1.58	114.5	40
1/2"	CV-FF-08-A	3.2	118	40
3/4"	CV-FF-12-A	7.5	135.5	57
1"	CV-FF-16-A	14.57	169.5	73

NEEDLE VALVE

NEEDLE 밸브는 불소수지만을 사용하여 제작되었다. 고순도 약액 이송 배관에 최적화하여 설계된 제품이며, 정밀한 유량 조절이 가능하도록 설계된 제품이다.

NEEDLE valve is made only of fluoropolymer material and is designed to generate optimal performance in handling high-purity chemicals. It is also engineered to allow precise flow control.

ORDERING INFORMATION



EXAMPLE

NV-FF-04

- ① NV : Needle Valve
- ② FF : Flare Type - Fine Thread
- ③ 04 : 1/4"

MAJOR FUNCTIONS AND FEATURES

- 고순도의 불소수지 재질로만 제작된 밸브이며, Chemical 적용시 오염 및 부식이 발생하지 않는다.
- 높은 강도와 안전성을 갖춘 통합 밸브 Stem
- Made only of high-purity Fluoropolymer material and is designed to generate optimal performance in handling high-purity chemicals.
- Integrated valve stem with high strength and safety factor

TECHNICAL SPECIFICATIONS

1. Configuration

2-Way Flow / Needle Type

2. Port Connection & Port Size

ENIB Flare Tube Connection - Fine Thread
- 1/4"

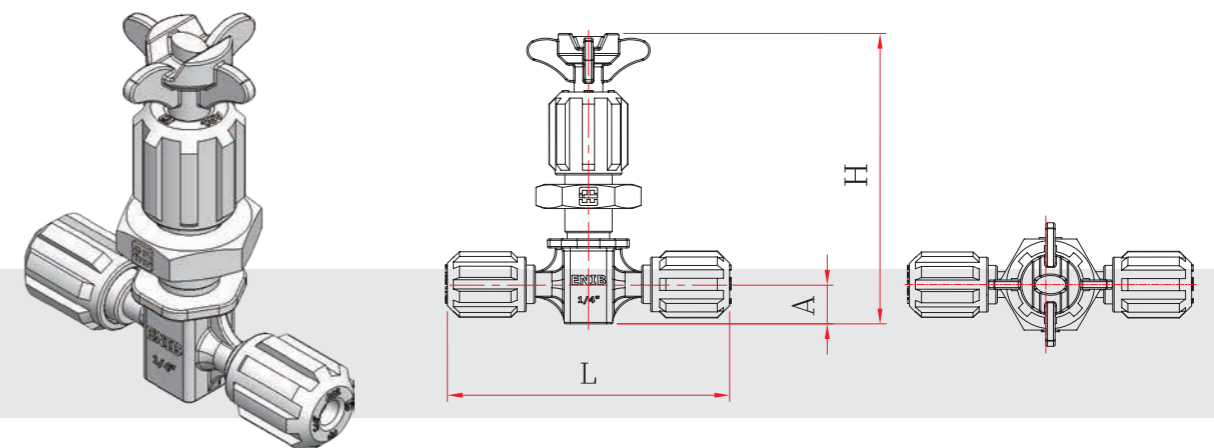
3. Operating Specification

Operating Temperature	Maximum Operating Pressure
0~130°C	7kg/cm ² (0.7Mpa)

4. Material Construction

Wetted : High Purity PFA
Non-Wetted : High Purity PFA

NEEDLE VALVE DIMENSION TABLE



FLARE TYPE - FINE THREAD TYPE

SIZE	P/N	CV	A	H	L
1/4"	NV-FF-04		13	95.5	93

단위 : mm

LINED DIAPHRAGM SERIES VALVE

Weir Type

장비 및 압력용기의 부속되는 제어밸브로서 고순도의 재질의 불소수지로 라이닝 되어있으며, 다이어프램의 특화된 설계구조로서 우수한 기밀을 유지한다.

Lined Diaphragm Series Valve's diaphragm is made of high-purity fluoropolymer material and maintains excellent airtightness due to its specialized design structure. It is used as a control valve for equipment and pressure vessels that supply high purity chemical lines in the semiconductor and LCD industries.

ORDERING INFORMATION



1. Product Name

LMV : Lined Manual Valve
LPV : Lined Pneumatic Valve

2. Code_Size

15	15A	JIS/DIN
20	20A	
25	25A	
40	40A	
50	50A	
15	1/2"	ANSI
20	3/4"	
25	1"	
40	1-1/2"	
50	2"	

3. Connection Type

J JIS10K
A ANSI150LBS
D DINPN16

4. Surface

AC ACID
IV IVORY
WH WHITE
GR GRAY

EXAMPLE

LMV - 25 - J - AC

- ① LMV : Lined Manual Valve
- ② 25 : 25A
- ③ J : JIS
- ④ AC : ACID

EXAMPLE

LPV - 40 - A - IV

- ① LPV : Lined Pneumatic Valve
- ② 40 : 1-1/2"
- ③ A : ANSI
- ④ IV : IVORY



TECHNICAL SPECIFICATIONS

1. Actuator Type

- Manual Handle Operation
- Pneumatic Air Operation

2. Configuration

- 2-Way Flow / Weir Type

3. Air Port

- 1/8"PT (FEMALE)
- Minimum 6 ~ Maximum 7kg/cm² (86~100 psi)

4-1. Operating Specification

Operating	Maximum Operating Pressure
0~90°C	9kg/cm ² (0.9Mpa)
90~120°C	7kg/cm ² (0.7Mpa)

4-2. Product Warranty

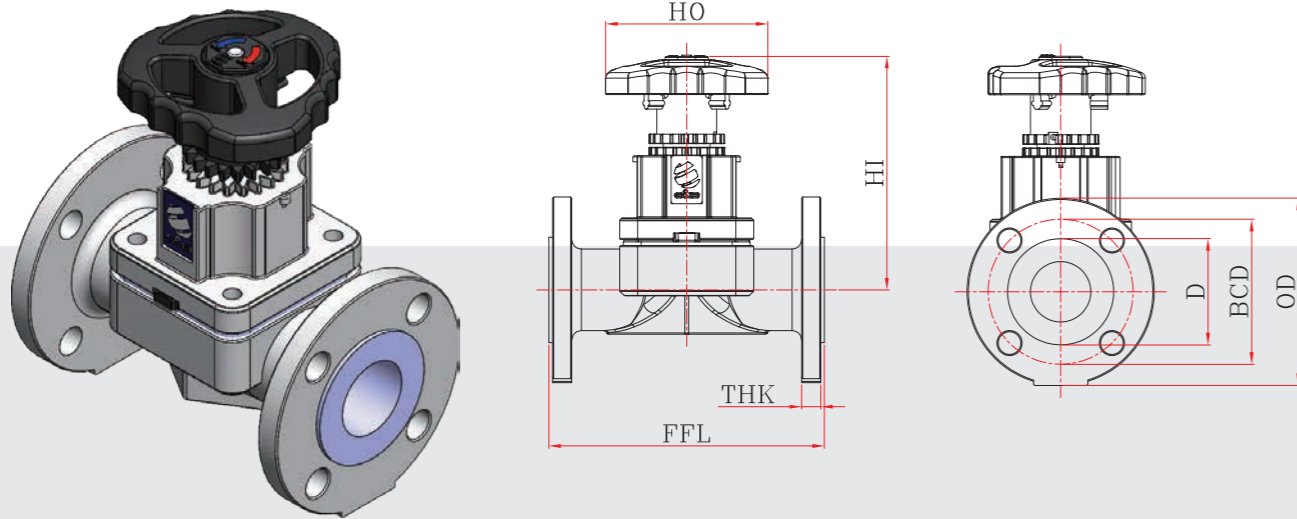
Type	Maximum Pressure Cutoff	Max. Close seal pressure while fluid flow (양방향 압력)	Guarantee Cycle
Pneumatic - ANSI, JIS, DIN	6kg/cm ²	6kg/cm ²	300,000

5. Port Connection

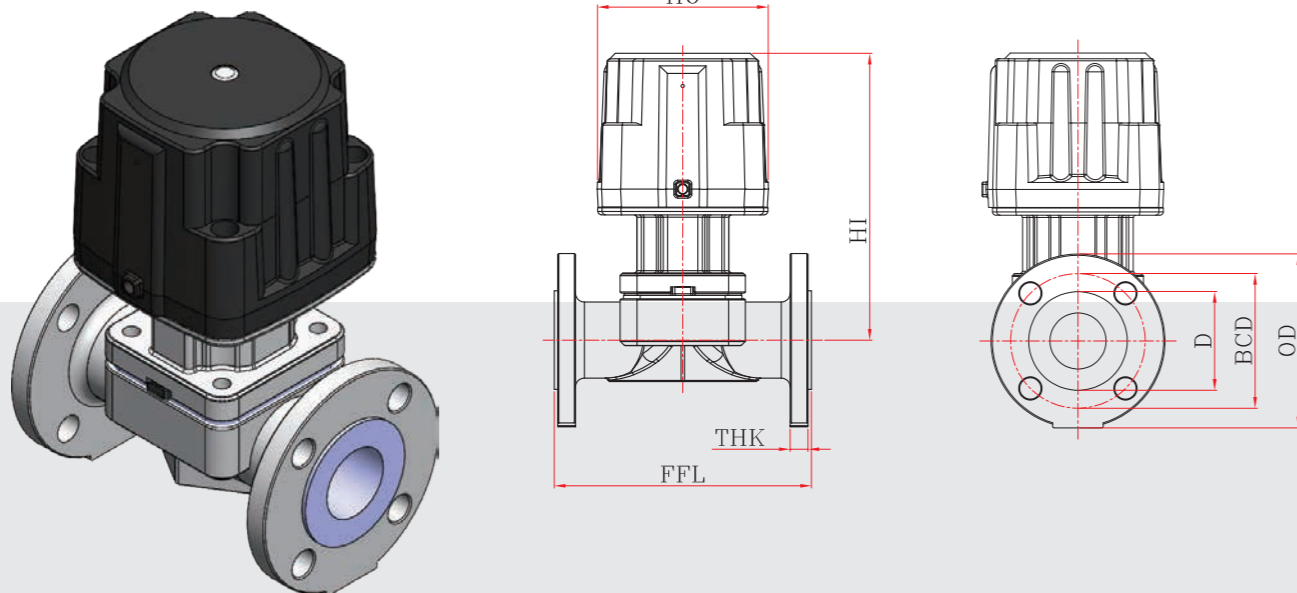
	ACTUATOR TYPE	CONNECTION TYPE	SIZE
LINED SERIES	MANUAL VALVE	JIS10K	15A~50A
		ANSI150LBS	1/2"~1", 1-1/2"~2"
		DINPN16	20A~50A
	PNEUMATIC VALVE	JIS10K	15A~50A
		ANSI150LBS	1/2"~1", 1-1/2"~2"
		DINPN16	20A~50A

LINED VALVE DIMENSION TABLE

LINED MANUAL VALVE



LINED PNEUMATIC VALVE



LINED MANUAL VALVE

단위 : mm

SIZE	P/N	CV	FFL	HI	HO	BCD	OD	THK	D
JIS 15A	LMV-15-J-AC	4.7	150	110	90	70	95	12	48
JIS 20A	LMV-20-J-AC	4.7	150	110	90	75	100	14	54
JIS 25A	LMV-25-J-AC	9.5	160	117.5	90	90	125	14	64
JIS 40A	LMV-40-J-AC	22.3	200	182	140	105	140	16	78
JIS 50A	LMV-50-J-AC	39.2	230	195	140	120	155	16	88
ANSI 1/2"	LMV-15-A-AC	4.7	150	110	90	60.4	88.9	11.2	39
ANSI 3/4"	LMV-20-A-AC	4.7	150	110	90	69.9	98.5	12.7	48
ANSI 1"	LMV-25-A-AC	9.5	160	117.5	90	79.2	108	14.2	57
ANSI 1.5"	LMV-40-A-AC	22.3	200	182	140	98.5	127	17.5	75
ANSI 2"	LMV-50-A-AC	39.2	230	195	140	120.6	152.5	19.1	89
DIN 20D	LMV-20-D-AC	4.7	150	110	90	75	105	16	55
DIN 25D	LMV-25-D-AC	9.5	160	117.5	90	85	115	16	64
DIN 40D	LMV-40-D-AC	22.3	200	182	140	110	150	16	84
DIN 50D	LMV-50-D-AC	39.2	230	195	140	125	165	18	94

LINED PNEUMATIC VALVE

단위 : mm

SIZE	P/N	CV	FFL	HI	HO	BCD	OD	THK	D
JIS 15A	LPV-15-J-AC	4.7	150	158	103	70	95	12	48
JIS 20A	LPV-20-J-AC	4.7	150	158	103	75	100	14	54
JIS 25A	LPV-25-J-AC	9.5	160	174	109	90	125	14	64
JIS 40A	LPV-40-J-AC	22.3	200	217.5	130	105	140	16	78
JIS 50A	LPV-50-J-AC	39.2	230	257	153	120	155	16	88
ANSI 1/2"	LPV-15-A-AC	4.7	150	158	103	60.4	88.9	11.2	39
ANSI 3/4"	LPV-20-A-AC	4.7	150	158	103	69.9	98.5	12.7	48
ANSI 1"	LPV-25-A-AC	9.5	160	174	109	79.2	108	14.2	57
ANSI 1.5"	LPV-40-A-AC	22.3	200	217.5	130	98.5	127	17.5	75
ANSI 2"	LPV-50-A-AC	39.2	230	257	153	120.6	152.5	19.1	89
DIN 20D	LPV-20-D-AC	4.7	150	158	103	75	105	16	55
DIN 25D	LPV-25-D-AC	9.5	160	174	109	85	115	16	64
DIN 40D	LPV-40-D-AC	22.3	200	217.5	130	110	150	16	84
DIN 50D	LPV-50-D-AC	39.2	230	257	153	125	165	18	94

MASTER[®] LOCK FITTING

Union Type [Patent No.:10-1842173] Master[®] Lock[Registration No.: 40-1790304]

PFA 배관 및 장치의 연결 접속관으로서 UNION FITTING은 용이한 접속체결과 안전한 설계구조로 CCSS 및 WET 장비와 연결 MAIN & SUB LINE 배관에 광범위하게 사용된다.

The UNION FITTING is widely used on main and Sub line PFA pipings that connect with CCSS and WET equipment due to its safe design structure.



MAJOR FUNCTIONS AND FEATURES

- Multiple Seal 설계구조의 의한 기밀성 강화
- 최소규격의 제품설계로 장비제작의 소형화 가능
- PFA NUT의 풀림 방지를 위한 NUT LOCKING DEVICE 설치
- Enhanced airtightness due to multiple seal design structure (1st-Primary, 2nd- backup, 3rd-Joint Seal, 4th- Grip Seal)
- Reduction in equipment size possible with minimized design configuration.
- Addition of locking device to prevent loosening of PFA nut

TECHNICAL SPECIFICATIONS

1. Port Connection & Port Size

ENIB UNION FITTING	CONNECTION TYPE	SIZE
MASTER [®] LOCK	Ferrule Type	1/4"~2"

2. Operating Specification

Operating Temperature	Maximum Operating Pressure
0~90°C	9kg/cm ² (0.9Mpa)
90~120°C	7kg/cm ² (0.7Mpa)
Over 150°C	Below5kg/cm ² (0.5Mpa)

3. Material Construction

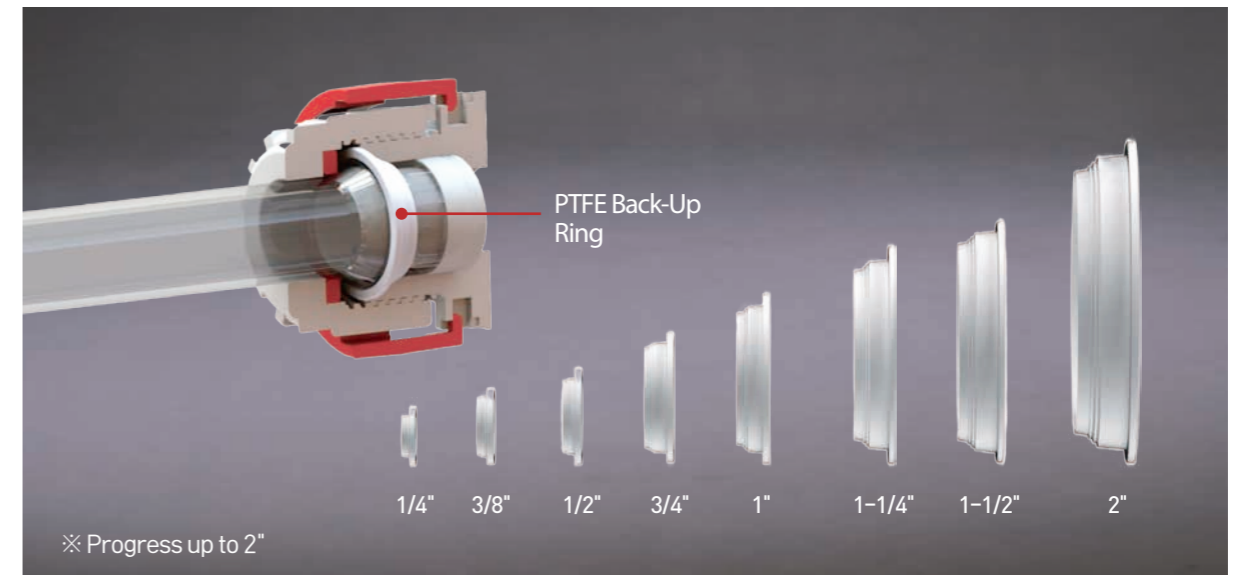
Body, Insert, Nut : High Purity PFA

SUPERIOR MASTER[®] LOCK FITTING

Superior Master[®] Lock[Patent Application No.:10-2024-0064916]

PFA 배관 및 장치의 연결 접속관으로서 UNION FITTING은 용이한 접속체결과 안전한 설계구조로 CCSS 및 WET 장비와 연결 MAIN & SUB LINE 배관에 광범위하게 사용된다.

The UNION FITTING is widely used on main and Sub line PFA pipings that connect with CCSS and WET equipment due to its safe design structure.



MAJOR FUNCTIONS AND FEATURES

- 기존 Master[®] Lock Union Fitting에 호환 가능하며 간단히 설치 가능
- 2-1. 1st Press Seal : PTFE Back up ring이 Tube와 Fitting 사이에 삽입되어 계단 형태의 면이 아닌 선으로 Sealing
- 2-2. 2nd Press Seal : PTFE Back up ring이 삽입되면서 Tube와 Ferrule 사이의 밀착력 증가
3. Nut 과체결 방지
4. 배압 보강
5. 내부 압력으로 인한 수축 팽창 방지
1. Applicable to Master Lock Fitting
- 2-1. 1st: The PTFE Backup ring is inserted between the tube an the fitting, creating a press seal
- 2-2. 2nd: As the PTFE Backup ring is inserted, the strength of the seal between the tube and ferrule increases
3. Prevents over-torquing of fitting nuts
4. Structural feature that withstands high-pressure conditions compared to Master Lock Fitting
5. Cushions expansion and contraction from pressure

TECHNICAL SPECIFICATIONS

1. Port Connection & Port Size

ENIB UNION FITTING	CONNECTION TYPE	SIZE
SUPERIOR MASTER [®] LOCK	Ferrule Type	1/4"~1"

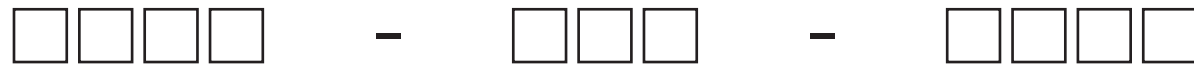
2. Operating Specification

Operating Temperature	Maximum Operating Pressure
0~90°C	9kg/cm ² (0.9Mpa)
90~120°C	7kg/cm ² (0.7Mpa)
Over 150°C	Below5kg/cm ² (0.5Mpa)

3. Material Construction

Body, Insert, Nut : High Purity PFA
Backup Ring : PTFE

ORDERING INFORMATION



1. Product Name

UF : MASTER® LOCK UNION FITTING
SMUF : SUPERIOR MASTER® LOCK UNION FITTING

2. Code_Shape

UT : UNION TEE
URT : UNION RED TEE
UE : UNION ELBOW
URE : UNION RED ELBOW
US : UNION STRAIGHT
UR : UNION REDUCER
PMU : UNION PANNEL MOUNTING
TA : TUBE ADAPTOR
ETA : ELBOW TUBE ADAPTOR
UFA : UNION FLANGE ADAPTOR
MC : MALE CONNECTOR
MEC : MALE ELBOW CONNECTOR
FMC : FEMALE CONNECTOR
SSA : SPACE SAVER ADAPTOR
ETAS : ELBOW TUBE ADAPTOR SAVER
SSUE : SPACE SAVER UNION ELBOW
SSUT : SPACE SAVER UNION TEE
TCAP : TUBE END CAP
UCAP : UNION END CAP
NUT : PFA NUT
FRUL : PFA FERRULE

3. Code_Size

04 1/4"
06 3/8"
08 1/2"
12 3/4"
16 1"
20 1-1/4"
24 1-1/2"(38.1)
24-40 1-1/2"(40)
32 2"

EXAMPLE

UF-URT-160416

① UF : MASTER® LOCK UNION FITTING
 ② URT : Union Red Tee
 ③ 160416 : 1"x1/4"x1"

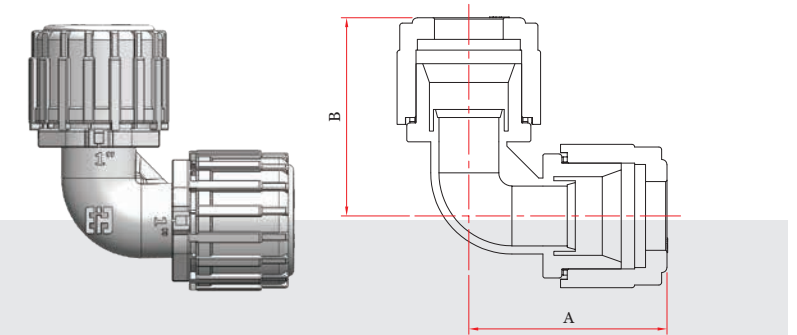
EXAMPLE

SMUF-TA-2516

① SMUF : SUPERIOR MASTER® LOCK UNION FITTING
 ② TA : Tube Adaptor
 ③ 2516 : 25Ax1"

UNION ELBOW

* Superior Master® Lock Fitting 적용 가능(1/4"~1")
 - ex. SMUF - □□ - □□



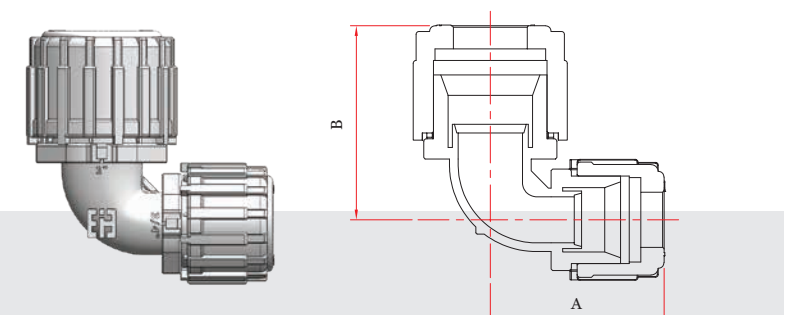
단위 : mm

SIZE	P/N	A	B
1/4"	UF-UE-04	31.5	31.5
3/8"	UF-UE-06	41	41
1/2"	UF-UE-08	47.5	47.5
3/4"	UF-UE-12	60	60
1"	UF-UE-16	73.5	73.5
1-1/4"	UF-UE-20	94.5	94.5
1-1/2"	UF-UE-24	105.5	105.5
2"	UF-UE-32	129.5	129.5

※ 상기 사이즈 외에는 영업부 문의 바랍니다.

UNION RED ELBOW

* Superior Master® Lock Fitting 적용 가능(1/4"~1")
 - ex. SMUF - □□ - □□



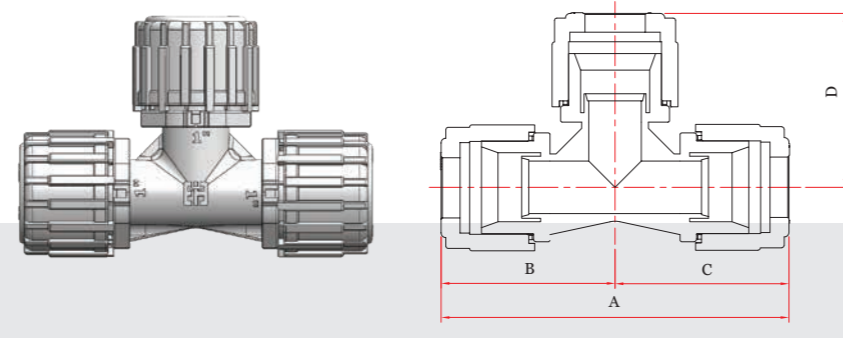
단위 : mm

SIZE	P/N	A	B
1/2"X3/8"	UF-URE-0806	45	47.5
3/4"X3/8"	UF-URE-1206	51.5	60
3/4"X1/2"	UF-URE-1208	54	60
1"X1/2"	UF-URE-1608	54	67
1"X3/4"	UF-URE-1612	60	67

※ 상기 사이즈 외에는 영업부 문의 바랍니다.

UNION TEE

* Superior Master® Lock Fitting 적용 가능(1/4"-1")
- ex. SMUF - □□ - □□



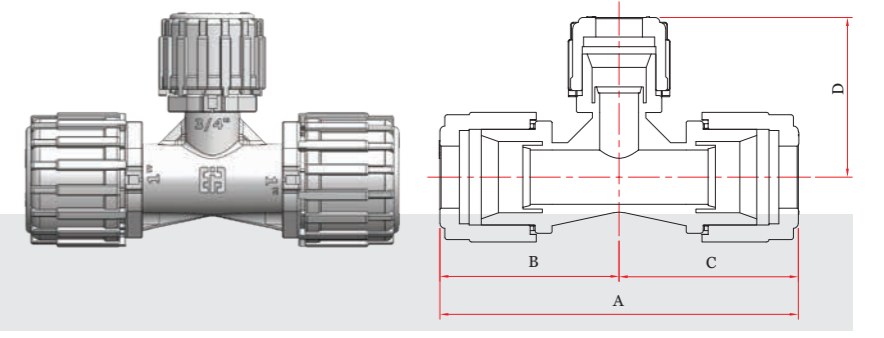
단위 : mm

SIZE	P/N	A	B	C	D
1/4"	UF-UT-04	63	31.5	31.5	31.5
3/8"	UF-UT-06	82	41	41	41
1/2"	UF-UT-08	95	47.5	47.5	47.5
3/4"	UF-UT-12	120	60	60	60
1"	UF-UT-16	147	73.5	73.5	73.5
1-1/4"	UF-UT-20	189	94.5	94.5	94.5
1-1/2"	UF-UT-24	211	105.5	105.5	105.5
2"	UF-UT-32	258	129	129	129

* 상기 사이즈 외에는 영업부 문의 바랍니다.

UNION RED TEE

* Superior Master® Lock Fitting 적용 가능(1/4"-1")
- ex. SMUF - □□ - □□



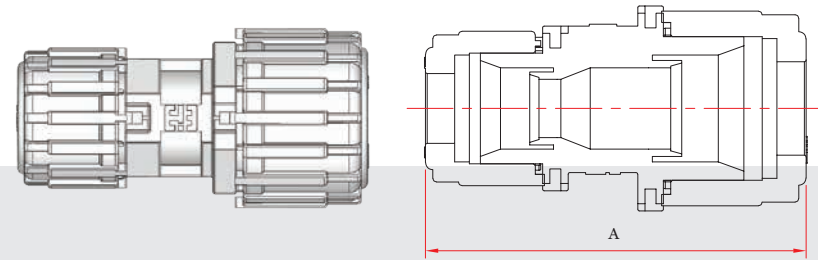
단위 : mm

SIZE	P/N	A	B	C	D
3/8"X1/4"X3/8"	UF-URT-060406	82	41	41	35
1/2"X1/4"X1/2"	UF-URT-080408	95	47.5	47.5	37
1/2"X3/8"X1/2"	UF-URT-080608	95	47.5	47.5	43.5
3/4"X1/4"X3/4"	UF-URT-120412	120	60	60	41
3/4"X3/8"X3/4"	UF-URT-120612	120	60	60	47.5
3/4"X1/2"X3/4"	UF-URT-120812	120	60	60	52
1"X1/4"X1"	UF-URT-160416	147	73.5	73.5	46
1"X3/8"X1"	UF-URT-160616	147	73.5	73.5	52.5
1"X1/2"X1"	UF-URT-160816	147	73.5	73.5	57
1"X3/4"X1"	UF-URT-161216	147	73.5	73.5	65.5
1-1/4"X1"X1-1/4"	UF-URT-201620	189	94.5	94.5	81.5
1-1/2"X1/4"X1-1/2"	UF-URT-240424	211	105.5	105.5	68.5
1-1/2"X1/2"X1-1/2"	UF-URT-240824	211	105.5	105.5	80
1-1/2"X3/4"X1-1/2"	UF-URT-241224	211	105.5	105.5	81
1-1/2"X1"X1-1/2"	UF-URT-241624	211	105.5	105.5	89
2"X1-1/2"X2"	UF-URT-322432	258	129	129	113

* 상기 사이즈 외에는 영업부 문의 바랍니다.

UNION REDUCER

※ Superior Master® Lock Fitting 적용 가능(1/4"-1")
- ex. SMUF - □□ - □□



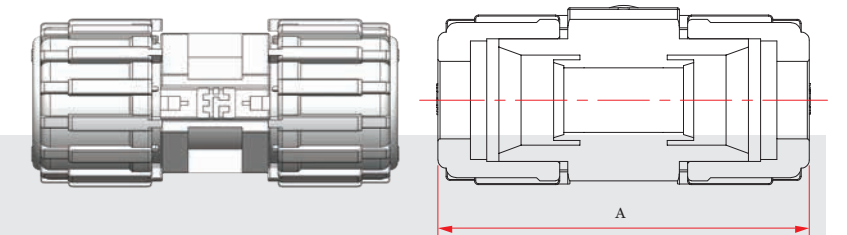
단위 : mm

SIZE	P/N	A
3/8"X1/4"	UF-UR-0604	56.5
1/2"X1/4"	UF-UR-0804	62.5
3/4"X1/4"	UF-UR-1204	78
1"X1/4"	UF-UR-1604	90.5
1/2"X3/8"	UF-UR-0806	67.5
3/4"X3/8"	UF-UR-1206	83
1"X3/8"	UF-UR-1606	95.5
3/4"X1/2"	UF-UR-1208	85.5
1"X1/2"	UF-UR-1608	98
1"X3/4"	UF-UR-1612	104
1-1/4"X1"	UF-UR-2016	136
1-1/2"X1/4"	UF-UR-2404	116.5
1-1/2"X1/2"	UF-UR-2408	124
1-1/2"X3/4"	UF-UR-2412	130
1-1/2"X1"	UF-UR-2416	137
1-1/2"X1-1/4"	UF-UR-2420	148
2"X1-1/2"	UF-UR-3224	192.5

※ 상기 사이즈 외에는 영업부 문의 바랍니다.

UNION STRAIGHT

※ Superior Master® Lock Fitting 적용 가능(1/4"-1")
- ex. SMUF - □□ - □□



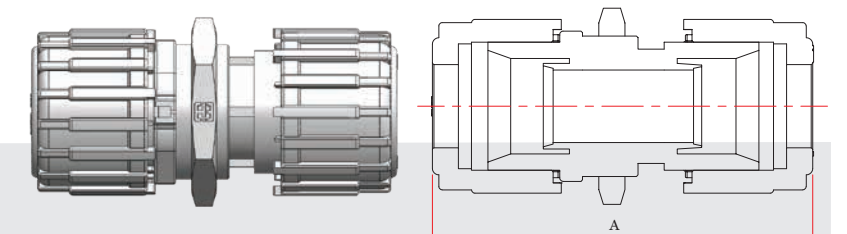
단위 : mm

SIZE	P/N	A
1/4"	UF-US-04	51.5
3/8"	UF-US-06	61.5
1/2"	UF-US-08	70
3/4"	UF-US-12	91.5
1"	UF-US-16	111
1-1/4"	UF-US-20	147
1-1/2"	UF-US-24	166
2"	UF-US-32	209

※ 상기 사이즈 외에는 영업부 문의 바랍니다.

UNION PANNEL MOUNTING

※ Superior Master® Lock Fitting 적용 가능(1/4"-1")
- ex. SMUF - □□ - □□



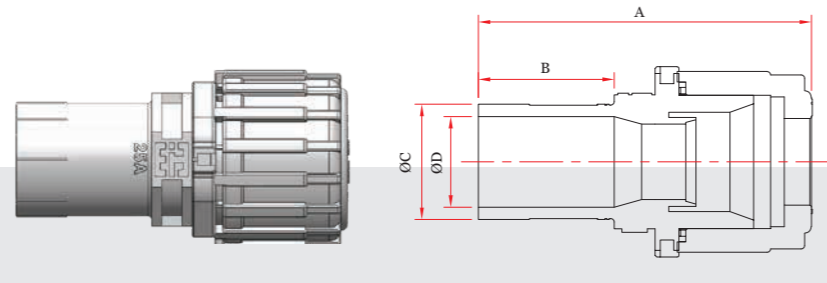
단위 : mm

SIZE	P/N	A
1/4"	UF-PMU-0404	77.5
3/8"	UF-PMU-0606	87
1/2"	UF-PMU-0808	91.5
3/4"	UF-PMU-1212	102.5
1"X3/4"	UF-PMU-1612	109.5
1"	UF-PMU-1616	116.5

※ 상기 사이즈 외에는 영업부 문의 바랍니다.

TUBE ADAPTOR

* Superior Master® Lock Fitting 적용 가능(1/4"-1")
- ex. SMUF - □□ - □□



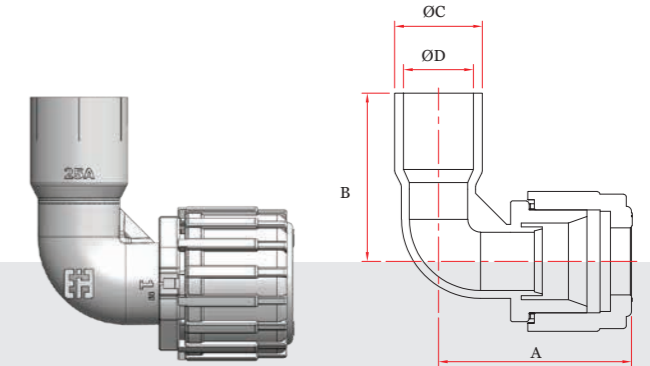
단위 : mm

SIZE	P/N	A	B	ØC	ØD
15AX1/4"	UF-TA-1504	77.5	40	21.34	15.8
15AX3/8"	UF-TA-1506	82.5	40	21.34	15.8
15AX1/2"	UF-TA-1508	85	40	21.34	15.8
15AX3/4"	UF-TA-1512	91	40	21.34	15.8
15AX1"	UF-TA-1516	98	40	21.34	15.8
20AX1/4"	UF-TA-2004	77.5	40	26.67	20.93
20AX3/8"	UF-TA-2006	82.5	40	26.67	20.93
20AX1/2"	UF-TA-2008	85	40	26.67	20.93
20AX3/4"	UF-TA-2012	91	40	26.67	20.93
20AX1"	UF-TA-2016	98	40	26.67	20.93
25AX1/4"	UF-TA-2504	77.5	40	33.4	26.64
25AX3/8"	UF-TA-2506	82.5	40	33.4	26.64
25AX1/2"	UF-TA-2508	85	40	33.4	26.64
25AX3/4"	UF-TA-2512	91	40	33.4	26.64
25AX1"	UF-TA-2516	98	40	33.4	26.64
25AX1-1/4"	UF-TA-2520	117	40	33.4	26.64
25AX1-1/2"	UF-TA-2524	118	40	33.4	26.64
40AX1"	UF-TA-4016	107	40	48.26	40.86
40AX1-1/4"	UF-TA-4020	117	40	48.26	40.86
40AX1-1/2"	UF-TA-4024	118	40	48.26	40.86
40AX2"	UF-TA-4032	134.5	40	48.26	40.86
50AX1-1/4"	UF-TA-5020	117	40	60.33	52.5
50AX1-1/2"	UF-TA-5024	118	40	60.33	52.5
50AX2"	UF-TA-5032	134.5	40	60.33	52.5

※ 상기 사이즈 외에는 영업부 문의 바랍니다.

ELBOW TUBE ADAPTOR

* Superior Master® Lock Fitting 적용 가능(1/4"-1")
- ex. SMUF - □□ - □□

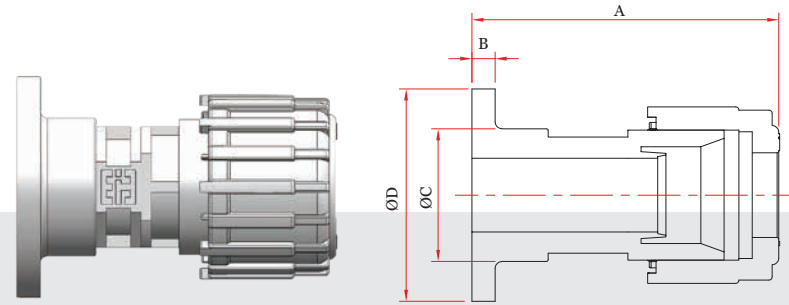


SIZE	P/N	A	B	ØC	ØD
15AX1/2"	UF-ETA-1508	47.5	60	21.34	15.8
15AX3/4"	UF-ETA-1512	60	60	21.34	15.8
20AX3/4"	UF-ETA-2012	60	60	26.67	20.93
20AX1"	UF-ETA-2016	73.5	63	26.67	20.93
25AX3/4"	UF-ETA-2512	60	60	33.4	26.64
25AX1"	UF-ETA-2516	73.5	64	33.4	26.64
25AX1-1/4"	UF-ETA-2520	94.5	74	33.4	26.64
40AX1"	UF-ETA-4016	84	84	48.26	40.86
40AX1-1/2"	UF-ETA-4024	105.5	84	48.26	40.86
50AX1-1/2"	UF-ETA-5024	105.5	84	60.33	52.5

※ 상기 사이즈 외에는 영업부 문의 바랍니다.

UNION FLANGE ADAPTOR

* Superior Master® Lock Fitting 적용 가능(1/4"-1")
- ex. SMUF - □□ - □□



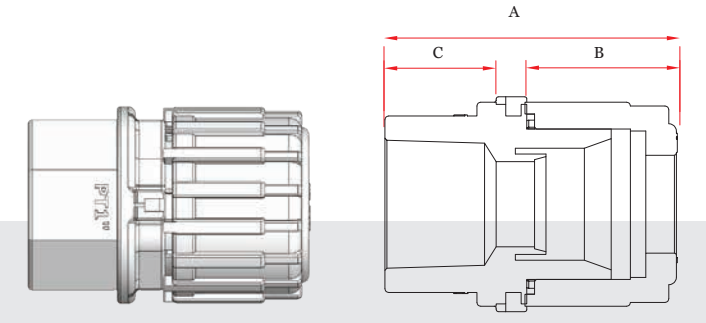
단위 : mm

SIZE	P/N	A	B	ØC	ØD
15AX3/8"	UF-UFA-1506J	61	7	30	50
15AX1/2"	UF-UFA-1508J	63.5	7	30	50
20AX1/4"	UF-UFA-2004J	66	7	30	55
20AX1/2"	UF-UFA-2008J	72.5	7	30	55
20AX3/4"	UF-UFA-2012J	78.5	7	30	55
20AX1"	UF-UFA-2016J	92.5	7	40	55
25AX1/2"	UF-UFA-2508J	79.5	7	40	64
25AX3/4"	UF-UFA-2512J	85.5	7	40	64
25AX1"	UF-UFA-2516J	92.5	7	40	64
40AX1/4"	UF-UFA-4004J	79.5	9	60	81
40AX1/2"	UF-UFA-4008J	87	9	60	81
40AX3/4"	UF-UFA-4012J	93	9	60	81
40AX1"	UF-UFA-4016J	100	9	60	81
40AX1-1/4"	UF-UFA-4020J	119.5	9	60	81
40AX1-1/2"	UF-UFA-4024J	119	9	60	81
50AX1"	UF-UFA-5016J	100	9	60	93
50AX1-1/2"	UF-UFA-5024J	119	9	60	93
40AX2"	UF-UFA-4032J	137	9	74	81
50AX2"	UF-UFA-5032J	137	9	74	94
1/2"X1/2"	UF-UFA-1508A	63.5	7	30	39
3/4"X1/4"	UF-UFA-2004A	66	7	30	49
3/4"X3/4"	UF-UFA-2012A	78.5	7	30	49
1"X3/4"	UF-UFA-2512A	85.5	7	40	58
1"X1"	UF-UFA-2516A	92.5	7	40	58
1-1/2"X1/4"	UF-UFA-4004A	79.5	9	60	77
1-1/2"X1/2"	UF-UFA-4008A	87	9	60	77
1-1/2"X3/4"	UF-UFA-4012A	93	9	60	77
1-1/2"X1"	UF-UFA-4016A	100	9	60	77
1-1/2"X1-1/2"	UF-UFA-4024A	119	9	60	77
2"X1"	UF-UFA-5016A	100	9	60	88
2"X1-1/2"	UF-UFA-5024A	119	9	60	88
2"X2"	UF-UFA-5032A	137	9	74	88

* 상기 사이즈 외에는 영업부 문의 바랍니다.

FEMALE CONNECTOR

* Superior Master® Lock Fitting 적용 가능(1/4"-1")
- ex. SMUF - □□ - □□



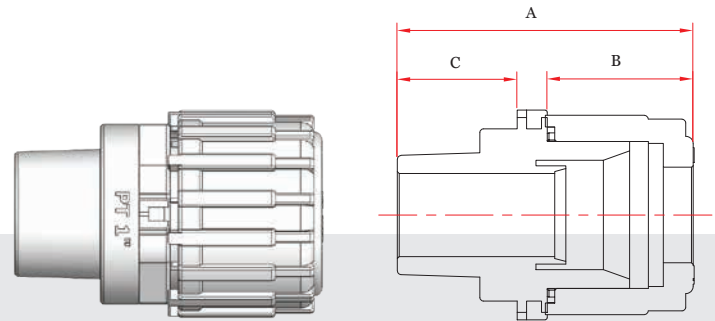
단위 : mm

SIZE	P/N	A	B	C	PT/NPT
1/4"X1/4"P	UF-FMC-0404P	45.5	18.5	19	PT-1/4"
3/8"X3/8"P	UF-FMC-0606P	50.5	23.5	19	PT-3/8"
1/2"X1/2"P	UF-FMC-0808P	57	26	23	PT-1/2"
3/4"X1/2"P	UF-FMC-1208P	63	32	23	PT-1/2"
3/4"X3/4"P	UF-FMC-1212P	65	32	25	PT-3/4"
1"X1"P	UF-FMC-1616P	76	39	29	PT-1"
1/4"X1/4"N	UF-FMC-0404N	45.5	18.5	19	NPT-1/4"
3/8"X3/8"N	UF-FMC-0606N	50.5	23.5	19	NPT-3/8"
1/2"X1/2"N	UF-FMC-0808N	57	26	23	NPT-1/2"
3/4"X1/2"N	UF-FMC-1208N	63	32	23	NPT-1/2"
3/4"X3/4"N	UF-FMC-1212N	65	32	25	NPT-3/4"
1"X1"N	UF-FMC-1616N	76	39	29	NPT-1"

* 상기 사이즈 외에는 영업부 문의 바랍니다.

MALE CONNECTOR

* Superior Master® Lock Fitting 적용 가능(1/4"-1")
- ex. SMUF - □□ - □□



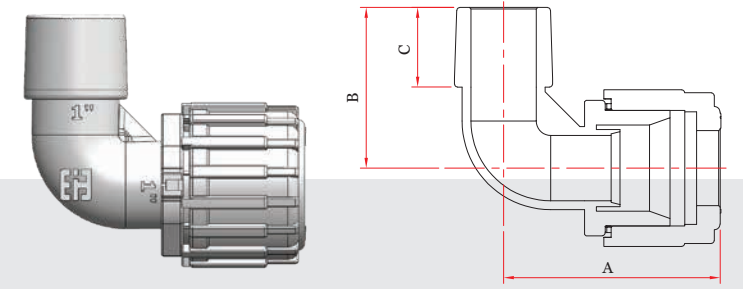
단위 : mm

SIZE	P/N	A	B	C	PT/NPT
1/4"X1/4"P	UF-MC-0404P	48.5	18.5	22	PT-1/4"
3/8"X1/4"P	UF-MC-0604P	53.5	23.5	22	PT-1/4"
3/8"X3/8"P	UF-MC-0606P	53.5	23.5	22	PT-3/8"
3/8"X3/4"P	UF-MC-0612P	59.5	23.5	28	PT-3/4"
1/2"X3/8"P	UF-MC-0806P	56	26	22	PT-3/8"
1/2"X1/2"P	UF-MC-0808P	60	26	26	PT-1/2"
1/2"X3/4"P	UF-MC-0812P	62	26	28	PT-3/4"
3/4"X1/2"P	UF-MC-1208P	66	32	26	PT-1/2"
3/4"X3/4"P	UF-MC-1212P	68	32	28	PT-3/4"
1"X3/4"P	UF-MC-1612P	75	39	28	PT-3/4"
1"X1"P	UF-MC-1616P	79	39	32	PT-1"
1-1/4"X1-1/4"P	UF-MC-2020P	92	49	35	PT 1-1/4"
1-1/2"X1-1/2"P	UF-MC-2424P	93	50	35	PT 1-1/2"
1/4"X1/4"N	UF-MC-0404N	48.5	18.5	22	NPT-1/4"
3/8"X1/4"N	UF-MC-0604N	53.5	23.5	22	NPT-1/4"
3/8"X3/8"N	UF-MC-0606N	53.5	23.5	22	NPT-3/8"
3/8"X3/4"N	UF-MC-0612N	59.5	23.5	28	NPT-3/4"
1/2"X3/8"N	UF-MC-0806N	56	26	22	NPT-3/8"
1/2"X1/2"N	UF-MC-0808N	60	26	26	NPT-1/2"
1/2"X3/4"N	UF-MC-0812N	62	26	28	NPT-3/4"
3/4"X1/2"N	UF-MC-1208N	66	32	26	NPT-1/2"
3/4"X3/4"N	UF-MC-1212N	68	32	28	NPT-3/4"
1"X3/4"N	UF-MC-1612N	75	39	28	NPT-3/4"
1"X1"N	UF-MC-1616N	79	39	32	NPT-1"
1-1/4"X1-1/4"N	UF-MC-2020N	92	49	35	NPT 1-1/4"
1-1/2"X1-1/2"N	UF-MC-2424N	93	50	35	NPT 1-1/2"

※ 상기 사이즈 외에는 영업부 문의 바랍니다.

MALE ELBOW CONNECTOR

* Superior Master® Lock Fitting 적용 가능(1/4"-1")
- ex. SMUF - □□ - □□



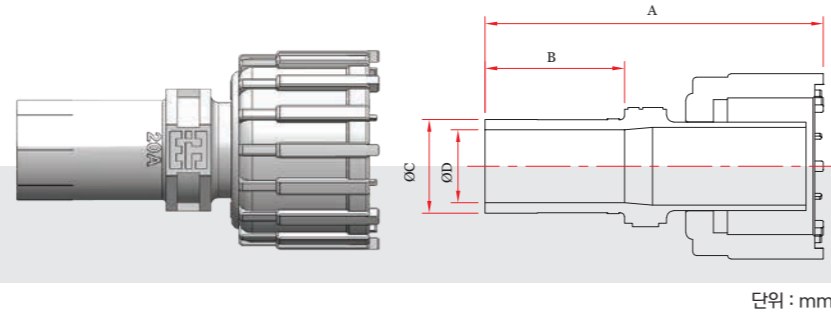
단위 : mm

SIZE	P/N	A	B	C	PT/NPT
1/4"X1/4"P	UF-MEC-0404P	31.5	23	17	PT-1/4"
3/8"X3/8"P	UF-MEC-0606P	41	27.5	17	PT-3/8"
1/2"X1/2"P	UF-MEC-0808P	47.5	35.5	21	PT-1/2"
3/4"X3/4"P	UF-MEC-1212P	60	44	23	PT-3/4"
1"X1"P	UF-MEC-1616P	73.5	54.5	27	PT-1"
1/4"X1/4"N	UF-MEC-0404N	31.5	23	17	NPT-1/4"
3/8"X3/8"N	UF-MEC-0606N	41	27.5	17	NPT-3/8"
1/2"X1/2"N	UF-MEC-0808N	47.5	35.5	21	NPT-1/2"
3/4"X3/4"N	UF-MEC-1212N	60	44	23	NPT-3/4"
1"X1"N	UF-MEC-1616N	73.5	54.5	27	NPT-1"
Ø4XØ2X1/8"P	UF-MM-MEC-4202P	21	18.5	10	PT-1/8"
Ø6XØ4X1/8"P	UF-MM-MEC-6402P	28.5	21	10	PT-1/8"
Ø6XØ4X1/4"P	UF-MM-MEC-6404P	28.5	28	17	PT-1/4"
Ø6XØ4X3/8"P	UF-MM-MEC-6406P	32	28	17	PT-3/8"
Ø8XØ6X3/8"P	UF-MM-MEC-8606P	32	28	17	PT-3/8"
Ø10XØ8X3/8"P	UF-MM-MEC-10806P	38	30	17	PT-3/8"
Ø10XØ8X1/2"P	UF-MM-MEC-10808P	38	34	21	PT-1/2"
Ø6XØ4X1/4"N	UF-MM-MEC-6404N	28.5	28	17	NPT-1/4"
Ø6XØ4X3/8"N	UF-MM-MEC-6406N	32	28	17	NPT-3/8"
Ø8XØ6X3/8"N	UF-MM-MEC-8606N	32	28	17	NPT-3/8"
Ø10XØ8X3/8"N	UF-MM-MEC-10806N	38	30	17	NPT-3/8"
Ø10XØ8X1/2"N	UF-MM-MEC-10808N	38	34	21	NPT-1/2"

※ 상기 사이즈 외에는 영업부 문의 바랍니다.

SPACE SAVER ADAPTOR

* Superior Master® Lock Fitting 적용 가능(1/4"~1")
- ex. SMUF - □□ - □□



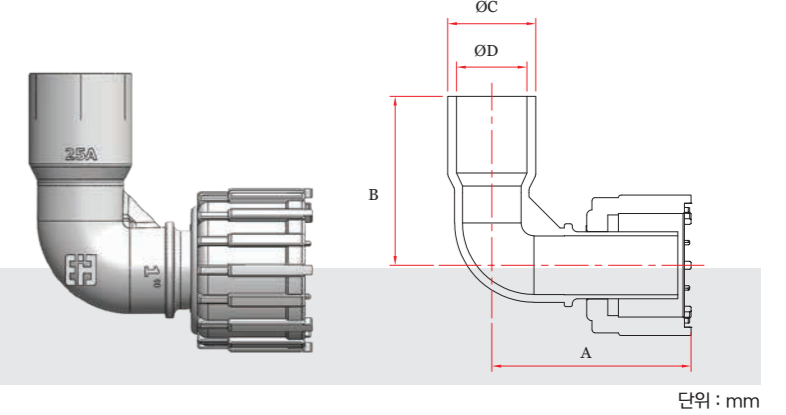
단위 : mm

SIZE	P/N	A	B	ØC	ØD
15AX1/4"	UF-SSA-1504	72.5	40	21.34	15.8
15AX3/8"	UF-SSA-1506	79.5	40	21.34	15.8
15AX1/2"	UF-SSA-1508	85	40	21.34	15.8
15AX3/4"	UF-SSA-1512	91.5	40	21.34	15.8
15AX1"	UF-SSA-1516	97	40	21.34	15.8
20AX1/4"	UF-SSA-2004	72.5	40	26.67	20.93
20AX3/8"	UF-SSA-2006	79.5	40	26.67	20.93
20AX1/2"	UF-SSA-2008	85	40	26.67	20.93
20AX3/4"	UF-SSA-2012	91.5	40	26.67	20.93
20AX1"	UF-SSA-2016	97	40	26.67	20.93
25AX1/4"	UF-SSA-2504	72.5	40	33.4	26.64
25AX3/8"	UF-SSA-2506	79.5	40	33.4	26.64
25AX1/2"	UF-SSA-2508	85	40	33.4	26.64
25AX3/4"	UF-SSA-2512	91.5	40	33.4	26.64
25AX1"	UF-SSA-2516	97	40	33.4	26.64
25AX1-1/4"	UF-SSA-2520	124	40	33.4	26.64
25AX1-1/2"	UF-SSA-2524	125.5	40	33.4	26.64
40AX1-1/4"	UF-SSA-4020	124	40	48.26	40.86
40AX1-1/2"	UF-SSA-4024	125.5	40	48.26	40.86
50AX1-1/4"	UF-SSA-5020	124	40	60.33	52.5
50AX1-1/2"	UF-SSA-5024	125.5	40	60.33	52.5
50AX2"	UF-SSA-5032	142.5	40	60.33	52.5

* 상기 사이즈 외에는 영업부 문의 바랍니다.

ELBOW TUBE ADAPTOR SAVER

* Superior Master® Lock Fitting 적용 가능(1/4"~1")
- ex. SMUF - □□ - □□



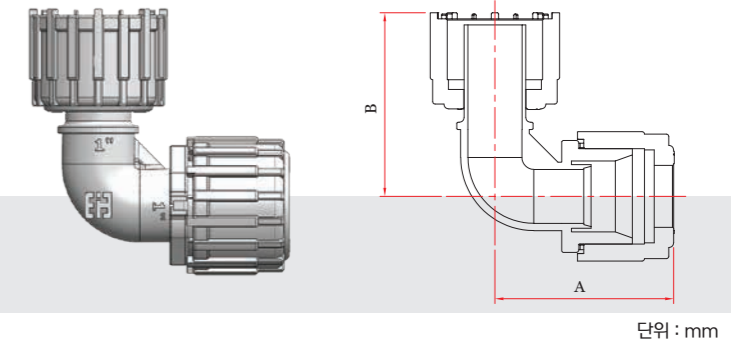
단위 : mm

SIZE	P/N	A	B	ØC	ØD
20AX3/4"	UF-ETAS-2012	63.5	60	26.67	20.93
20AX1"	UF-ETAS-2016	75.5	63	26.67	20.93
25AX3/4"	UF-ETAS-2512	63.5	60	33.4	26.64
25AX1"	UF-ETAS-2516	75.5	64	33.4	26.64

* 상기 사이즈 외에는 영업부 문의 바랍니다.

SPACE SAVER UNION ELBOW

* Superior Master® Lock Fitting 적용 가능(1/4"~1")
- ex. SMUF - □□ - □□



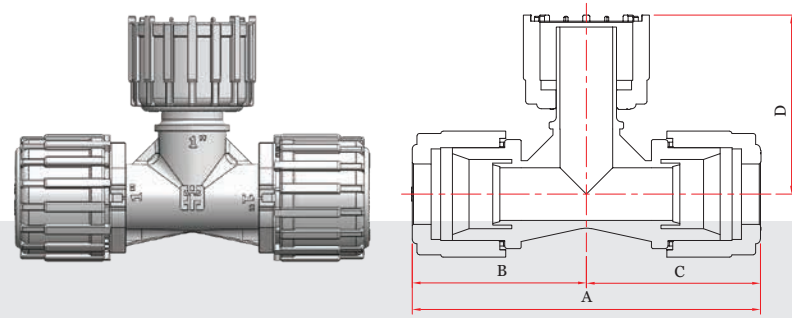
단위 : mm

SIZE	P/N	A	B
1/4"(S)x1/4"	UF-SSUE-04S04	31	31.5
3/8"(S)x3/8"	UF-SSUE-06S06	41	41
1/2"(S)x1/2"	UF-SSUE-08S08	47.5	50.5
3/4"(S)x3/4"	UF-SSUE-12S12	60	63.5
1"(S)x1"	UF-SSUE-16S16	73.5	75.5
1-1/4"(S)x1-1/4"	UF-SSUE-20S20	94.5	106.5
1-1/2"(S)x1-1/2"	UF-SSUE-24S24	105.5	118
1/2"(S)x1/2"(S)	UF-SSUE-08S08S	50.5	50.5
3/4"(S)x3/4"(S)	UF-SSUE-12S12S	63.5	63.5
1"(S)x1"(S)	UF-SSUE-16S16S	75.5	75.5
1-1/4"(S)x1-1/4"(S)	UF-SSUE-20S20S	106.5	106.5
1-1/2"(S)x1-1/2"(S)	UF-SSUE-24S24S	118	118

* 상기 사이즈 외에는 영업부 문의 바랍니다.

SAPCE SAVER UNION TEE

* Superior Master® Lock Fitting 적용 가능(1/4"~1")
- ex. SMUF - □□ - □□



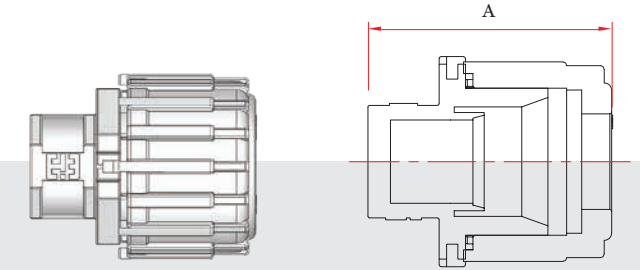
단위 : mm

SIZE	P/N	A	B	C	D
1/2"(S)X1/2"(S)X1/2"(S)	UF-SSUT-08S08S08S	101	51	51	51
1/2"(S)X1/2"X1/2"(S)	UF-SSUT-08S0808S	98	51	48	50.5
1/2"(S)X1/2"(S)X1/2"	UF-SSUT-08S08S08	98	51	48	51
1/2"(S)X1/2"X1/2"	UF-SSUT-08S0808	98	51	48	47.5
1/2"X1/2"(S)X1/2"	UF-SSUT-0808S08	95	47.5	47.5	50.5
3/4"X1/2"(S)X3/4"	UF-SSUT-1208S12	120	60	60	55
3/4"(S)X3/4"(S)X3/4"(S)	UF-SSUT-12S12S12S	127	64	64	63.5
3/4"(S)X3/4"X3/4"(S)	UF-SSUT-12S1212S	127	64	64	60
3/4"(S)X3/4"(S)X3/4"	UF-SSUT-12S12S12	124	64	60	63.5
3/4"(S)X3/4"X3/4"	UF-SSUT-12S1212	124	64	60	60
3/4"X3/4"(S)X3/4"	UF-SSUT-1212S12	120	60	60	63.5
1"(S)X1"(S)X1"(S)	UF-SSUT-16S16S16S	151	76	76	75.5
1"(S)X1"X1"(S)	UF-SSUT-16S1616S	151	76	76	74
1"(S)X1"(S)X1"	UF-SSUT-16S16S16	149	76	74	75.5
1"(S)X1"X1"	UF-SSUT-16S1616	149	76	74	74
1"X1"(S)X1"	UF-SSUT-1616S16	147	73.5	73.5	75.5
1"X3/4"(S)X1"	UF-SSUT-1612S16	147	74	74	69
1"(S)X1/2"(S)X1"(S)	UF-SSUT-16S08S16S	151	76	76	60
1"(S)X1/2"X1"(S)	UF-SSUT-16S0816S	151	76	76	57
1"(S)X1/2"(S)X1"	UF-SSUT-16S08S16	149	76	74	60
1"X1/2"(S)X1"	UF-SSUT-1608S16	147	73.5	73.5	60
1"(S)X1/2"X1"	UF-SSUT-16S0816	149	76	74	57
1-1/2"(S)x1-1/2"(S)x1-1/2"(S)	UF-SSUT-24S24S24S	236	118	118	118
1-1/2"(S)x1-1/2"X1-1/2"(S)	UF-SSUT-24S2424S	236	118	118	105.5
1-1/2"(S)x1-1/2"(S)x1-1/2"	UF-SSUT-24S24S24	224	118	106	118
1-1/2"(S)x1-1/2"X1-1/2"	UF-SSUT-24S2424	223.5	118	106	106
1-1/2"X1-1/2"(S)x1-1/2"	UF-SSUT-2424S24	211	106	106	118

* 상기 사이즈 외에는 영업부 문의 바랍니다.

TUBE END CAP - FERRULE TYPE

* Superior Master® Lock Fitting 적용 가능(1/4"~1")
- ex. SMUF - □□ - □□

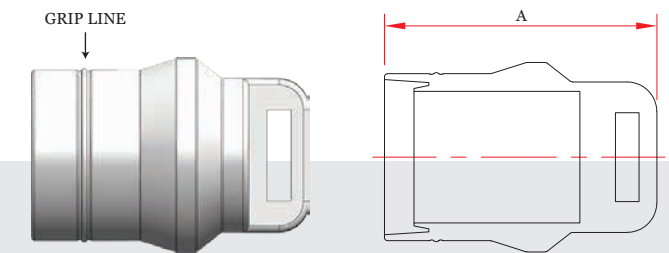


단위 : mm

SIZE	P/N	A
1/4"	UF-TCAP-04-FR	33
3/8"	UF-TCAP-06-FR	38
1/2"	UF-TCAP-08-FR	44
3/4"	UF-TCAP-12-FR	52.5
1"	UF-TCAP-16-FR	65
1-1/4"	UF-TCAP-20-FR	90
1-1/2"	UF-TCAP-24-FR	91

* 상기 사이즈 외에는 영업부 문의 바랍니다.

UNION END CAP - FERRULE TYPE

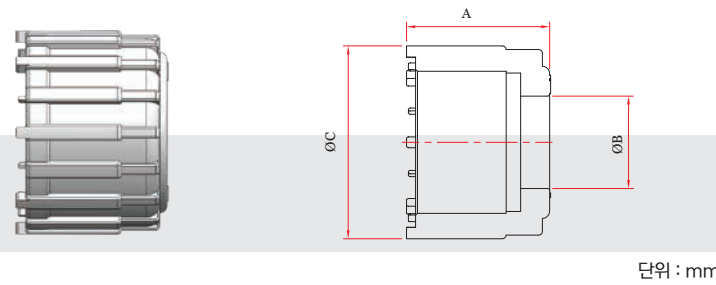


단위 : mm

SIZE	P/N	A
1/4"	UF-UCAP-04-FR	25.5
3/8"	UF-UCAP-06-FR	30
1/2"	UF-UCAP-08-FR	35
3/4"	UF-UCAP-12-FR	39.5
1"	UF-UCAP-16-FR	46
1-1/4"	UF-UCAP-20-FR	68
1-1/2"	UF-UCAP-24-FR	73
2"	UF-UCAP-32-FR	97

* 상기 사이즈 외에는 영업부 문의 바랍니다.

NUT - FERRULE TYPE

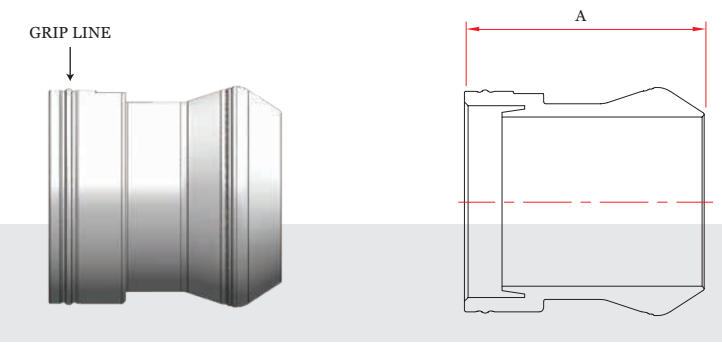


단위 : mm

SIZE	P/N	A	ØB	ØC
1/4"	UF-NUT-04-FR	18.5	6.4	24.2
3/8"	UF-NUT-06-FR	23.5	9.6	28.4
1/2"	UF-NUT-08-FR	26.5	12.8	33.6
3/4"	UF-NUT-12-FR	32.5	19.1	42.2
1"	UF-NUT-16-FR	39.5	25.5	53.2
1-1/4"	UF-NUT-20-FR	50.0	32.5	70.0
1-1/2"(Ø38.1)	UF-NUT-24-FR	51.5	38.5	75.5
1-1/2"(Ø40)	UF-NUT-24-40-FR	51.5	40.5	75.5
2"	UF-NUT-32-FR	67.5	51.3	91.0
Ø4XØ2	UF-NUT-0402-FR	10.5	4.5	12.5
Ø6XØ4	UF-NUT-0604-FR	15.5	6.5	18.0
Ø8XØ6	UF-NUT-0806-FR	19.0	8.0	24.0
Ø10XØ8	UF-NUT-1008-FR	23.0	10.0	27.0

*상기 사이즈 외에는 영업부 문의 바랍니다.

FERRULE



단위 : mm

SIZE	P/N	A
1/4"	UF-FRUL-04	12.3
3/8"	UF-FRUL-06	15.8
1/2"	UF-FRUL-08	20.3
3/4"	UF-FRUL-12	25
1"	UF-FRUL-16	31.3
1-1/4"	UF-FRUL-20	37.6
1-1/2"	UF-FRUL-24	37.6
2"	UF-FRUL-32	54.7
Ø4XØ2	UF-FRUL-0402	9.3
Ø6XØ4	UF-FRUL-0604	12.5
Ø8XØ6	UF-FRUL-0806	16
Ø10XØ8	UF-FRUL-1008	19

*상기 사이즈 외에는 영업부 문의 바랍니다.



MASTER[®] LOCK UNION FITTING & TUBE FLARING SYSTEM TOOL

[Patent No.:10-2144120]

ORDERING INFORMATION

MLFT - XX - X

1. Product Name

Master[®] Lock Flaring Tool

2. Tool_Type

HD - Handle Type
DK - Desk Type

3. Code_Size

Handle Type
S : Small size(1/4"~1")
M : Medium size(1-1/4"~1-1/2")
L : Large size (2")

Desk Type
M : Medium size(1/4" ~1-1/2")
L : Large size (1/4" ~ 2")

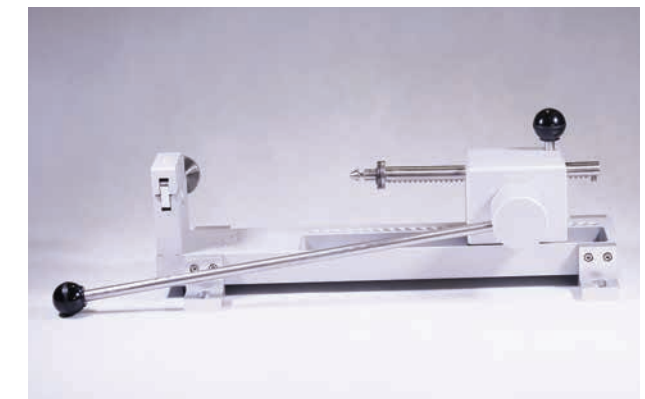
EXAMPLE

MLFT - HD - M
MLFT : Master[®] Lock Flaring Tool
HD : Handle Type
M : Medium size(1-1/4" ~ 1-1/2")

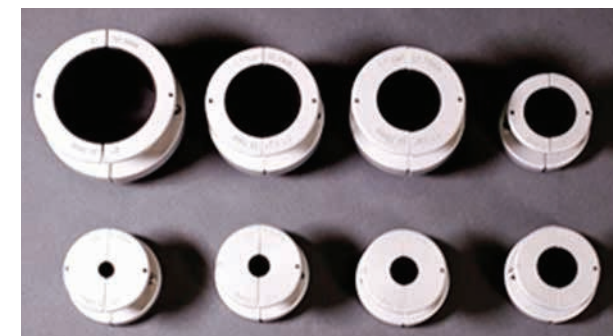
HANDLE TYPE TOOL & DESK TYPE TOOL

HANDLE TYPE TOOL	
Size	S 1/4" 3/8" 1/2" 3/4" 1"
	M 1-1/4" 1-1/2"
	L 2"

DESK TYPE TOOL	
Size	M 1/4" 3/8" 1/2" 3/4" 1" 1-1/4" 1-1/2"
	L 1/4" 3/8" 1/2" 3/4" 1" 1-1/4" 1-1/2" 2"



FITTING FLARING TOOLS

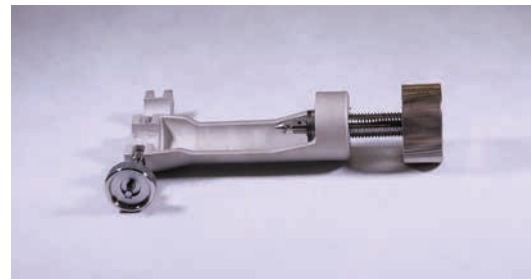


※ 영업부 문의 바랍니다.
※ Please contact sales.

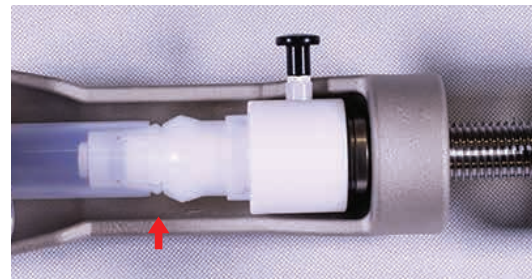
MASTER[®] LOCK UNION FITTING & TUBE FLARING SYSTEM TOOL

MASTER[®] LOCK FLARING PROCESS

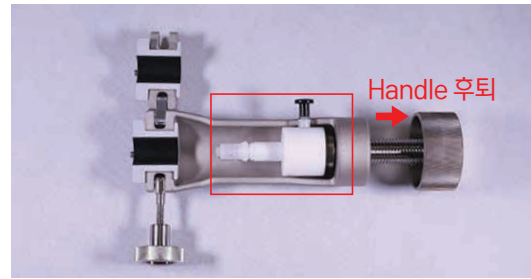
HANDLE TYPE TOOL



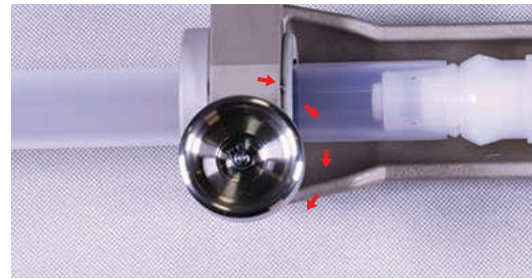
• HANDLE TYPE TOOL 사용법 설명



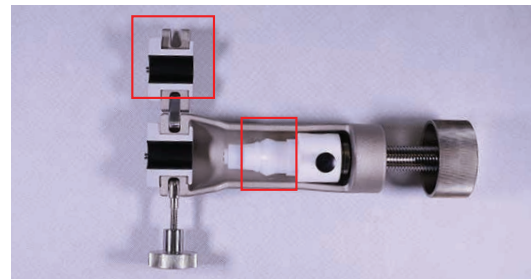
4. Tube 내경과 확관용 보조 Tool이 맞닿을때 까지 전진
Push the tube until the inner diameter of the tube is in contact with the flaring auxiliary tool.



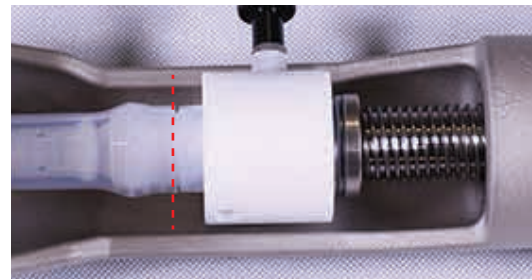
1. 확관 사이즈에 맞는 Ferrule 확관 jig를 체결
Install a ferrule flaring jig suitable for flaring size.



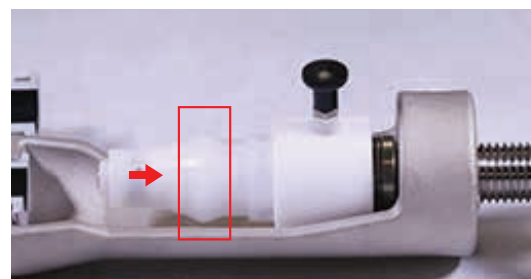
5. 클램프를 시계방향으로 돌려 Tube가 움직이지 않도록 고정
Turn the clamp clockwise to fix the tube.



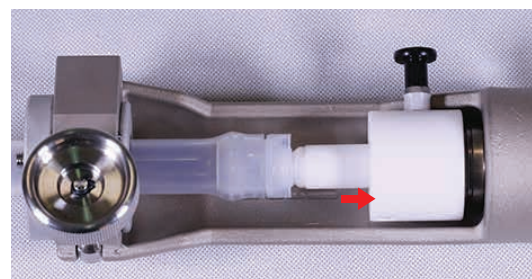
2. Tube Holder 및 Ferrule을 삽입
Insert tube holder and ferrule



6. 시계방향으로 돌려 확관
Turn clockwise to flaring

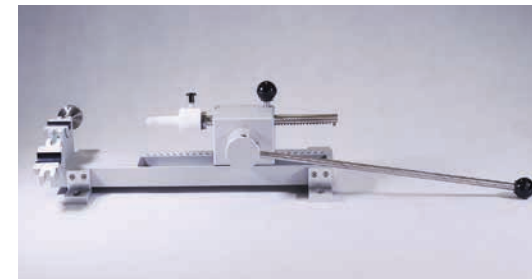


3. 확관용 보조 TOOL을 Sleeve 쪽으로 밀어 고정.
이때, 딸깍 소리와 함께 보조 TOOL이 벌어지며 고정
Push the flaring auxiliary tool toward the ferrule to fix.
At this time, the auxiliary tool opens with a clicking sound and is fixed



7. 확관 완료 후, 시계 반대 방향으로 돌려, ferrule 확관 jig를 제거
After completing flaring, turn it counterclockwise to remove the ferrule flaring jig

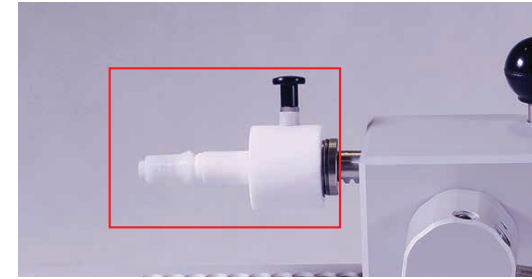
DESK TYPE TOOL



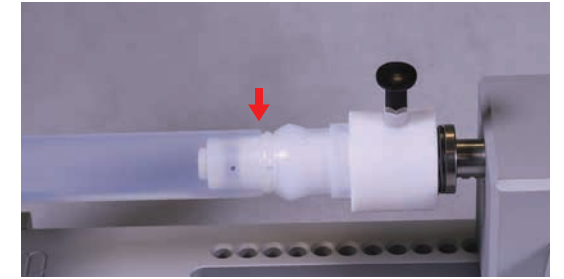
• DESK TYPE TOOL 사용법 설명



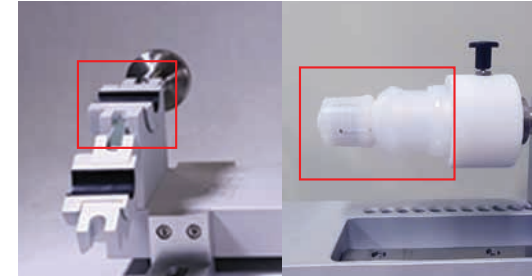
4. 클램프를 시계방향으로 돌려 Tube가 움직이지 않도록 고정
Turn the clamp clockwise to fix the tube.



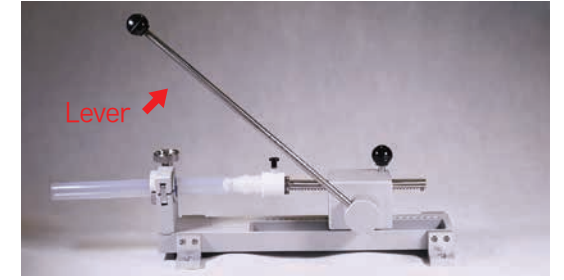
1. 확관 사이즈에 맞는 Ferrule 확관 jig를 체결
Install a ferrule flaring jig suitable for flaring size



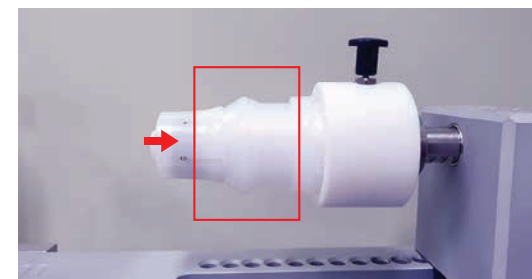
5. Tube 내경과 확관용 보조 Tool이 맞닿을때 까지 전진
Push the flaring auxiliary tool until the inner diameter of the tube is in contact with flaring auxiliary tool.



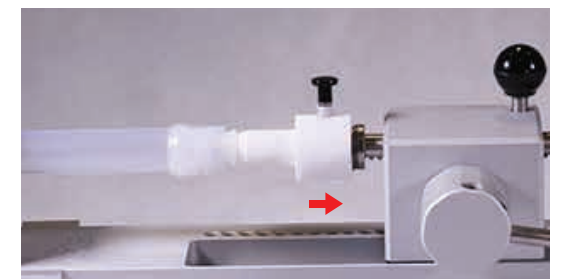
2. Tube Holder 및 Ferrule을 삽입
Insert Tube Holder and Ferrule.



6. Lever를 회전하여 확관합니다.
Push the lever to flaring tube.



3. 확관용 보조 TOOL을 Sleeve 쪽으로 밀어 고정.
이때, 딸깍 소리와 함께 보조 TOOL이 벌어지며 고정
Push the flaring auxiliary tool toward the ferrule to fix.
At this time, the auxiliary tool opens with a clicking sound and is fixed



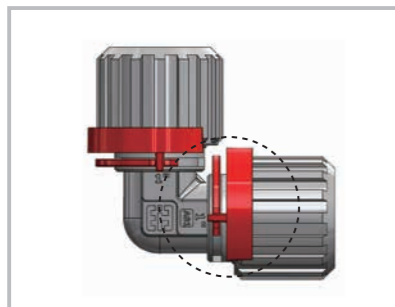
7. 확관 완료 후 Lever를 반대 방향으로 돌려 ferrule 확관 jig를 제거
After completing the flaring, turn the lever in the opposite direction to remove the ferrule flaring jig.

SMART FITTING

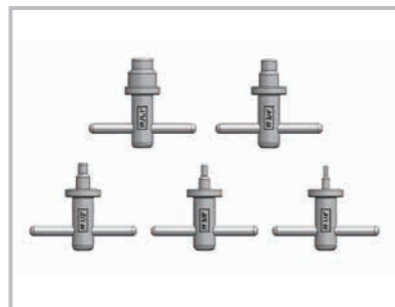
FLARE - FINE THREAD

Smart Fitting은 고순도 약액 이송 배관에 최적화하여 설계된 제품이다.
Compact한 Design으로 반도체 제조 공정에 안전하고 강력한 접속 배관의 구성을 가능케 한다.

The Smart Fitting is designed to be used in corrosive and high-purity environments.
The compact design allows for safe and secure installation in the semiconductor manufacturing environments.



NUT LOCK DEVICE



FLARING TOOL



NUT JIG

TECHNICAL SPECIFICATIONS

1. Port Connection & Port Size

ENIB Flare Connection - Fine Thread
1/4", 3/8", 1/2", 3/4", 1"

2. Operating Specification

Operating Temperature	Maximum Operating Pressure
0~90°C	7kg/cm ² (0.7Mpa)
90~120°C	5kg/cm ² (0.5Mpa)

3. Material Construction

Body, Insert, Nut: High Purity PFA

MAJOR FUNCTIONS AND FEATURES

1. Fitting Body, Nut는 고순도 불소수지(PFA)로 제작
2. Tube 규격 사이즈인 1/4", 3/8", 1/2", 3/4", 1" 규격 제공
3. 조립이 간단하며, 확실한 시공 확인이 가능
4. Nut Lock Device 옵션 제공

1. Fitting body and nut are made of high-purity PFA material
2. Tube connection sizes are available in 1/4", 3/8", 1/2", 3/4", and 1"
3. Assembly is simple, and its design prevents over-torquing (fixed torque amount is not necessary).
4. The Nut Lock is offered as an option.

ORDERING INFORMATION

SF - □□□ - □□

1. Product Name

Smart Fitting

3. Code_Size(Flare - Fine Thread)

04 : 1/4"	15 : 15A
06 : 3/8"	20 : 20A
08 : 1/2"	25 : 25A
12 : 3/4"	40 : 40A
16 : 1"	50 : 50A

EXAMPLE

SF-TA-1512

SF : Smart Fitting
TA : Tube Adaptor
1512 : 15Ax3/4"

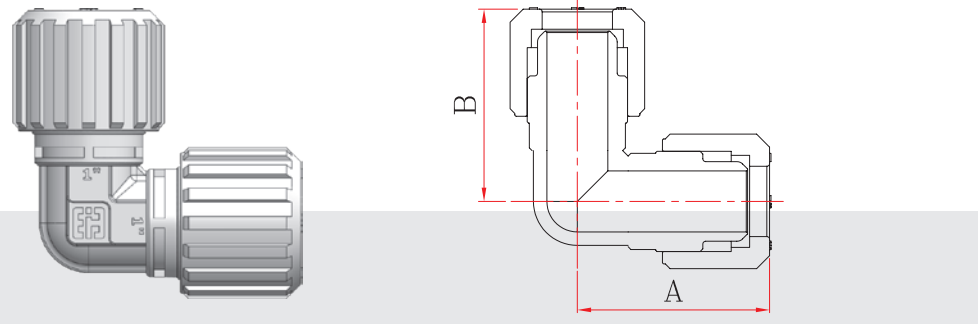
SF-PTA-250825

SF : Smart Fitting
PTA : PIPE TEE ADAPTOR
250825 : 25Ax1/2"X25A

2. Code_Shape

UE : UNION ELBOW
URE : UNION RED ELBOW
SSUE : SPACE SAVER UNION ELBOW
SSURE : SPACE SAVER UNION RED ELBOW
UT : UNION TEE
URT : UNION RED TEE
SSUT : SPACE SAVER UNION TEE
SSURT : SPACE SAVER UNION RED TEE
US : UNION STRAIGHT
UR : UNION REDUCER
SSUR : SPACE SAVER UNION REDUCER
TA : TUBE ADAPTOR
SSA : SPACE SAVER ADAPTOR
ETA : ELBOW TUBE ADAPTOR
ETAS : ELBOW TUBE ADAPTOR SAVER
UFA : UNION FLANGE ADAPTOR
MEC : MALE ELBOW CONNECTOR
MC : MALE CONNECTOR
FMC : FEMALE CONNECTOR
PMU : PANNEL MOUNTING UNION
UCAP : UNION END CAP
TCAP : TUBE END CAP
NUT : NUT
PTA : PIPE TEE ADAPTOR
SPTA : SHORT PIPE TEE ADAPTOR

ELBOW

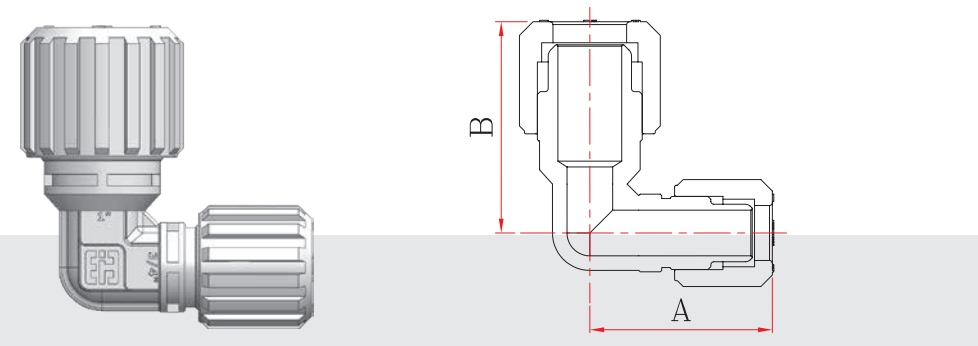


단위 : mm

SIZE	P/N	A	B
1/4"	SF-UE-04	43	43
3/8"	SF-UE-06	47.8	47.8
1/2"	SF-UE-08	52.7	52.7
3/4"	SF-UE-12	63	63
1"	SF-UE-16	68.5	68.5

* 상기 사이즈 외에는 영업부 문의 바랍니다.

RED ELBOW

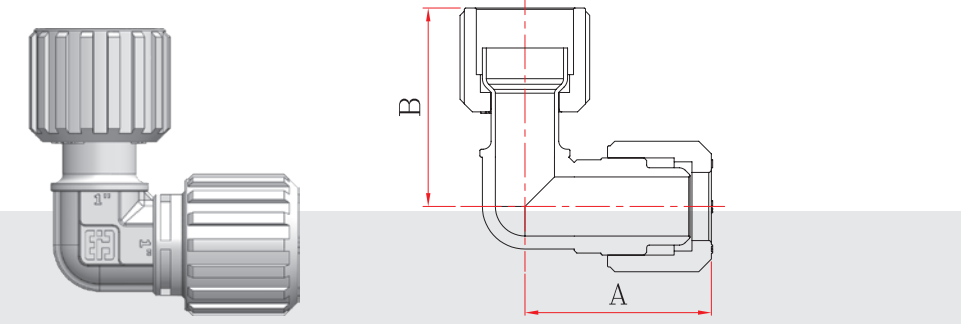


단위 : mm

SIZE	P/N	A	B
1/2"x1/4"	SF-URE-0804	51.5	55.2
1/2"x3/8"	SF-URE-0806	52.8	55.2
3/4"x1/4"	SF-URE-1204	54	62
3/4"x3/8"	SF-URE-1206	55.3	62
3/4"x1/2"	SF-URE-1208	57.7	62
1"x1/4"	SF-URE-1604	54	72
1"x3/8"	SF-URE-1606	55.3	72
1"x1/2"	SF-URE-1608	57.7	72
1"x3/4"	SF-URE-1612	63	72

* 상기 사이즈 외에는 영업부 문의 바랍니다.

SPACE SAVER UNION ELBOW

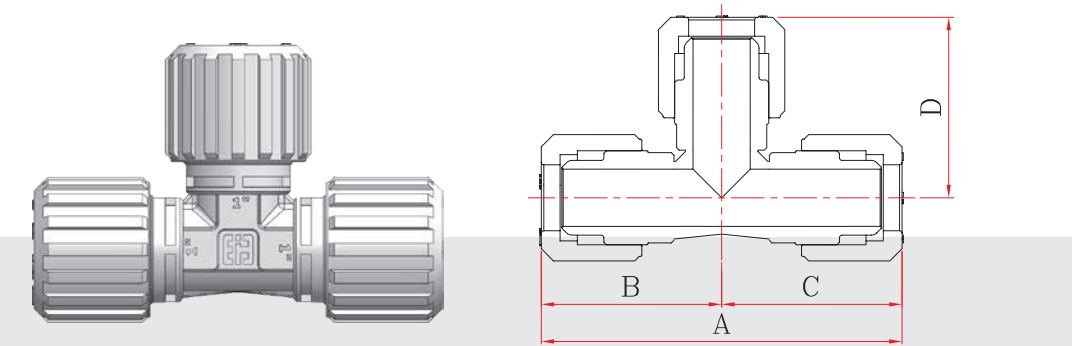


단위 : mm

SIZE	P/N	A	B
1/2"(S)x1/2"	SF-SSUE-08S08	52.7	53.7
1/2"(S)x1/2"(S)	SF-SSUE-08S08S	53.7	53.7
3/4"(S)x3/4"	SF-SSUE-12S12	63	65
3/4"(S)x3/4"(S)	SF-SSUE-12S12S	65	65
1"(S)x1"	SF-SSUE-16S16	68.5	74.5
1"(S)x1"(S)	SF-SSUE-16S16S	74.5	74.5

* 상기 사이즈 외에는 영업부 문의 바랍니다.

UNION TEE

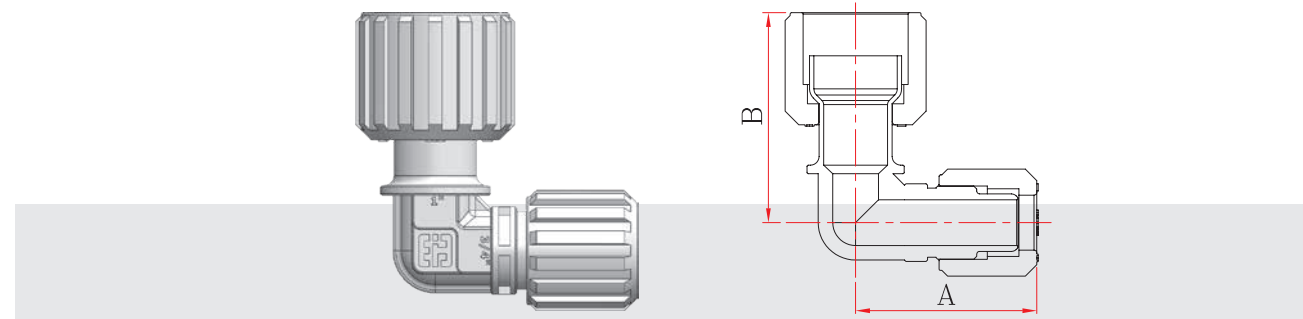


단위 : mm

SIZE	P/N	A	B	C	D
1/4"	SF-UT-04	86	43	43	43
3/8"	SF-UT-06	95.6	47.8	47.8	47.8
1/2"	SF-UT-08	105.4	52.7	52.7	52.7
3/4"	SF-UT-12	126	63	63	63
1"	SF-UT-16	137	68.5	68.5	68.5

* 상기 사이즈 외에는 영업부 문의 바랍니다.

SPACE SAVER UNION RED ELBOW

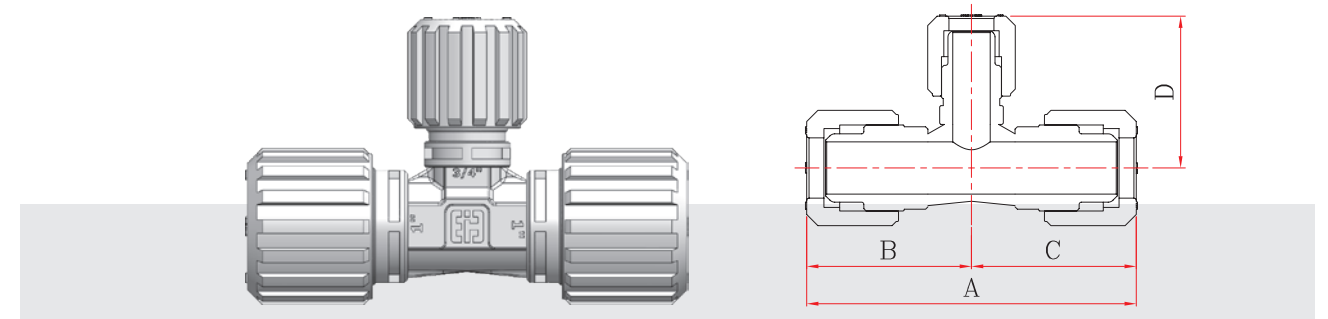


단위 : mm

SIZE	P/N	A	B
1/2"(S)x1/4"	SF-SSURE-08S04	51.5	56.2
1/2"(S)x3/8"	SF-SSURE-08S06	52.8	56.2
3/4"x1/2"(S)	SF-SSURE-1208S	58.7	63
3/4"(S)x1/4"	SF-SSURE-12S04	54	65
3/4"(S)x3/8"	SF-SSURE-12S06	55.3	65
3/4"(S)x1/2"	SF-SSURE-12S08	57.7	65
3/4"(S)x1/2"(S)	SF-SSURE-12S08S	58.7	65
1"x1/2"(S)	SF-SSURE-1608S	58.7	72
1"x3/4"(S)	SF-SSURE-1612S	65	72
1"(S)x1/4"	SF-SSURE-16S04	54	73
1"(S)x3/8"	SF-SSURE-16S06	55.3	73
1"(S)x1/2"	SF-SSURE-16S08	57.7	73
1"(S)x1/2"(S)	SF-SSURE-16S08S	58.7	73
1"(S)x3/4"	SF-SSURE-16S12	63	73
1"(S)x3/4"(S)	SF-SSURE-16S12S	65	73

* 상기 사이즈 외에는 영업부 문의 바랍니다.

UNION RED TEE

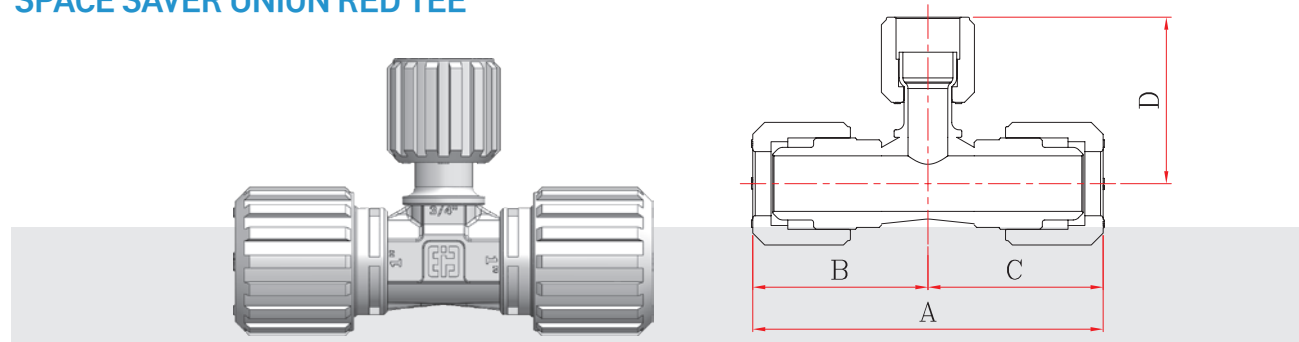


단위 : mm

SIZE	P/N	A	B	C	D
3/8"x1/4"x3/8"	SF-URT-060406	95.6	47.8	47.8	46.5
1/2"x1/4"x1/2"	SF-URT-080408	105.4	52.7	52.7	49
1/2"x3/8"x1/2"	SF-URT-080608	105.4	52.7	52.7	50.3
3/4"x1/4"x3/4"	SF-URT-120412	126	63	63	54
3/4"x3/8"x3/4"	SF-URT-120612	126	63	63	55.3
3/4"x1/2"x3/4"	SF-URT-120812	126	63	63	57.7
1"x1/4"x1"	SF-URT-160416	137	68.5	68.5	55.5
1"x3/8"x1"	SF-URT-160616	137	68.5	68.5	56.8
1"x1/2"x1"	SF-URT-160816	137	68.5	68.5	59.2
1"x3/4"x1"	SF-URT-161216	137	68.5	68.5	64.5

* 상기 사이즈 외에는 영업부 문의 바랍니다.

SPACE SAVER UNION RED TEE

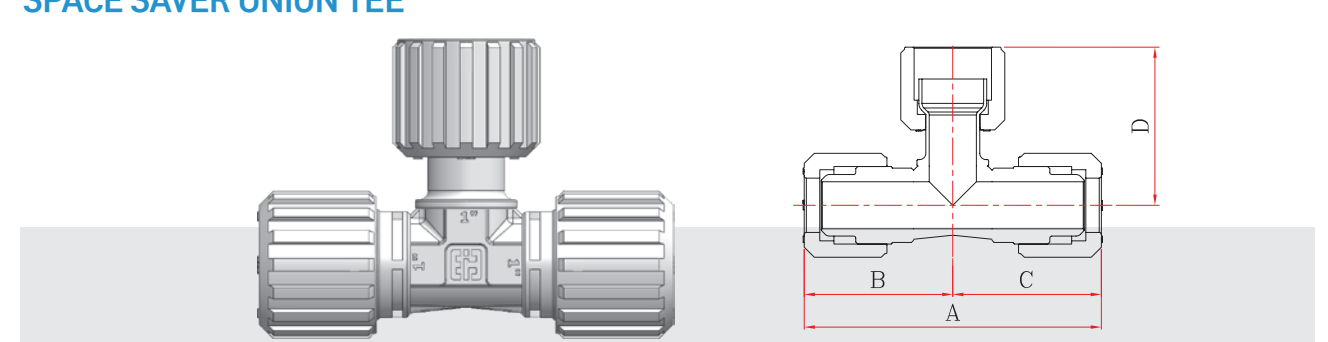


단위 : mm

SIZE	P/N	A	B	C	D
3/4"x1/2"(S)x3/4"	SF-SSURT-1208S12	126	63	63	58.7
3/4"(S)x1/2"x3/4"	SF-SSURT-12S0812	128	65	63	57.7
3/4"(S)x1/2"x3/4"(S)	SF-SSURT-12S0812S	130	65	65	57.7
3/4"(S)x1/2"(S)x3/4"	SF-SSURT-12S08S12	128	65	63	58.7
3/4"(S)x1/2"(S)x3/4"(S)	SF-SSURT-12S08S12S	130	65	65	58.7
1"x1/2"(S)x1"	SF-SSURT-1608S16	137	68.5	68.5	60.2
1"x3/4"(S)x1"	SF-SSURT-1612S16	137	68.5	68.5	66.5
1"(S)x1/2"x1"	SF-SSURT-16S0816	143	74.5	68.5	59.2
1"(S)x1/2"x1"(S)	SF-SSURT-16S0816S	149	74.5	74.5	59.2
1"(S)x1/2"(S)x1"	SF-SSURT-16S08S16	143	74.5	68.5	60.2
1"(S)x3/4"x1"	SF-SSURT-16S1216	143	74.5	68.5	64.5
1"(S)x3/4"x1"(S)	SF-SSURT-16S1216S	149	74.5	74.5	64.5
1"(S)x3/4"(S)x1"	SF-SSURT-16S12S16	143	74.5	68.5	66.5
1"(S)x3/4"(S)x1"(S)	SF-SSURT-16S12S16S	149	74.5	74.5	66.5

* 상기 사이즈 외에는 영업부 문의 바랍니다.

SPACE SAVER UNION TEE

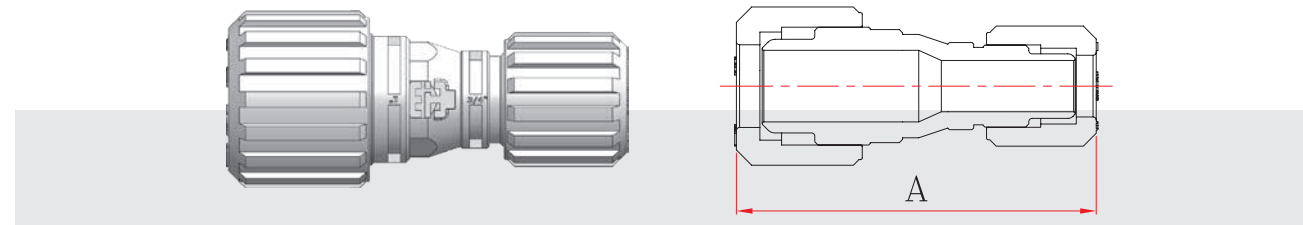


단위 : mm

SIZE	P/N	A	B	C	D
1/2"x1/2"(S)x1/2"	SF-SSUT-0808S08	105.4	52.7	52.7	53.7
1/2"(S)x1/2"x1/2"	SF-SSUT-08S0808	106.4	53.7	52.7	52.7
1/2"(S)x1/2"x1/2"(S)"	SF-SSUT-08S0808S	107.4	53.7	53.7	52.7
1/2"(S)x1/2"(S)x1/2"	SF-SSUT-08S08S08	106.4	53.7	52.7	53.7
1/2"(S)x1/2"(S)x1/2"(S)"	SF-SSUT-08S08S08S	107.4	53.7	53.7	53.7
3/4"x3/4"(S)x3/4"	SF-SSUT-1212S12	126	63	63	65
3/4"(S)x3/4"x3/4"	SF-SSUT-12S1212	128	65	63	63
3/4"(S)x3/4"x3/4"(S)"	SF-SSUT-12S1212S	130	65	65	63
3/4"(S)x3/4"(S)x3/4"	SF-SSUT-12S12S12	128	65	63	65
3/4"(S)x3/4"(S)x3/4"(S)"	SF-SSUT-12S12S12S	130	65	65	65
1"x1"(S)x1"	SF-SSUT-1616S16	137	68.5	68.5	74.5
1"(S)x1"x1"	SF-SSUT-16S1616	143	74.5	68.5	68.5
1"(S)x1"x1"(S)	SF-SSUT-16S1616S	149	74.5	74.5	68.5
1"(S)x1"(S)x1"	SF-SSUT-16S16S16	143	74.5	68.5	74.5
1"(S)x1"(S)x1"(S)	SF-SSUT-16S16S16S	149	74.5	74.5	74.5

* 상기 사이즈 외에는 영업부 문의 바랍니다.

UNION REDUCER



단위 : mm

SIZE	P/N	A
3/8"x1/4"	SF-UR-0604	89.3
1/2"x1/4"	SF-UR-0804	91.7
1/2"x3/8"	SF-UR-0806	93
3/4"x1/4"	SF-UR-1204	97
3/4"x3/8"	SF-UR-1206	98.3
3/4"x1/2"	SF-UR-1208	100.7
1"x1/4"	SF-UR-1604	101
1"x3/8"	SF-UR-1606	102.3
1"x1/2"	SF-UR-1608	104.7
1"x3/4"	SF-UR-1612	110

* 상기 사이즈 외에는 영업부 문의 바랍니다.

SPACE SAVER UNION REDUCER

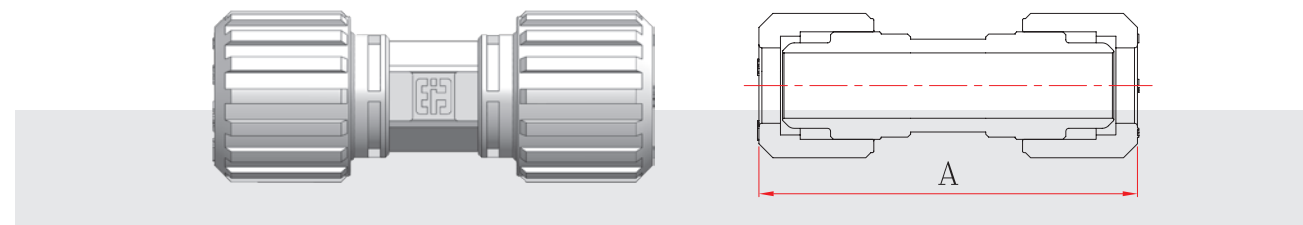


단위 : mm

SIZE	P/N	A
1"(S)x3/4"	SF-SSUR-16S12	116
1"(S)x1/2"	SF-SSUR-16S08	110.7
1"(S)x3/8"	SF-SSUR-16S06	108.3
1"(S)x1/4"	SF-SSUR-16S04	107
3/4"(S)x1/2"	SF-SSUR-12S08	102.7
3/4"(S)x3/8"	SF-SSUR-12S06	100.3
3/4"(S)x1/4"	SF-SSUR-12S04	99
1/2"(S)x3/8"	SF-SSUR-08S06	94
1/2"(S)x1/4"	SF-SSUR-08S04	92.7
1"x3/4"(S)	SF-SSUR-1612S	112
1"x1/2"(S)	SF-SSUR-1608S	99.7
3/4"x1/2"(S)	SF-SSUR-1208S	101.7
1"(S)x1/2"(S)	SF-SSUR-16S08S	111.7
1"(S)x3/4"(S)	SF-SSUR-16S12S	118
3/4"(S)x1/2"(S)	SF-SSUR-12S08S	103.7

* 상기 사이즈 외에는 영업부 문의 바랍니다.

STRAIGHT

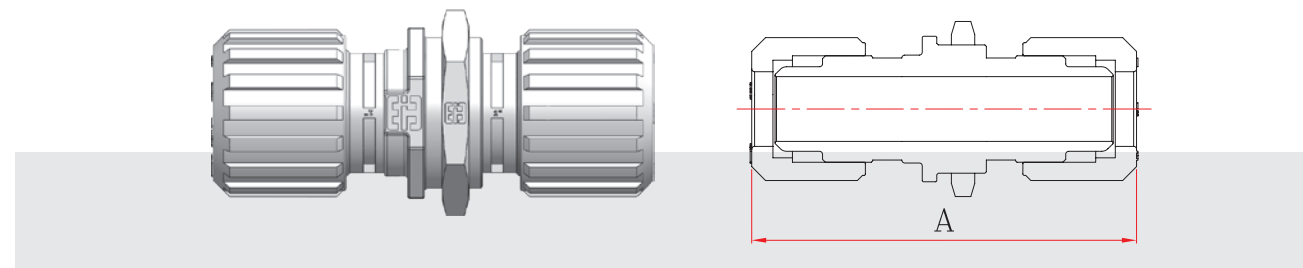


단위 : mm

SIZE	P/N	A
1/4"	SF-US-04	87
3/8"	SF-US-06	89.6
1/2"	SF-US-08	100.4
3/4"	SF-US-12	116
1"	SF-US-16	125.5

* 상기 사이즈 외에는 영업부 문의 바랍니다.

UNION PANNEL MOUNTING

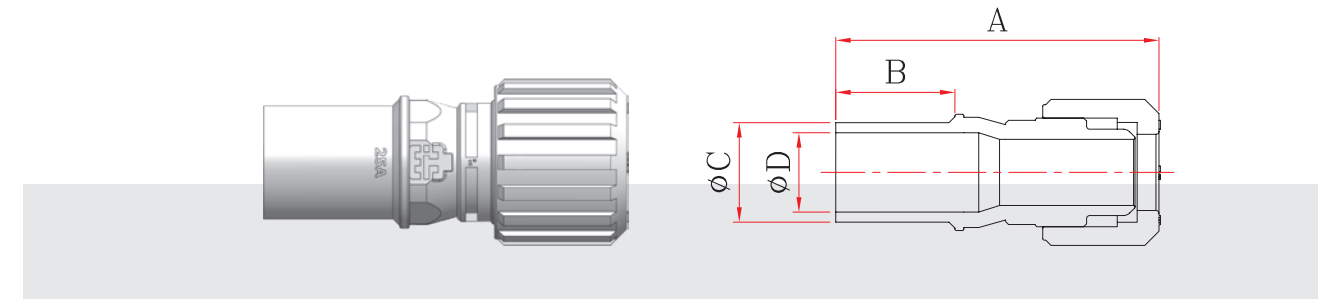


단위 : mm

SIZE	P/N	A
1/4"x1/4"	SF-PMU-0404	99
3/8"x3/8"	SF-PMU-0606	101.6
1/2"x1/2"	SF-PMU-0808	108.4
3/4"x3/4"	SF-PMU-1212	121
1"x1"	SF-PMU-1616	129

* 상기 사이즈 외에는 영업부 문의 바랍니다.

TUBE ADAPTOR

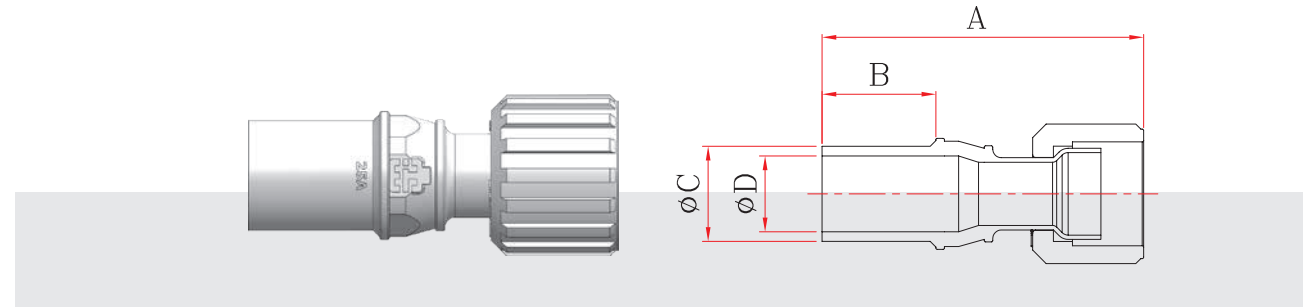


단위 : mm

SIZE	P/N	A	B	ØC	ØD
15Ax1/4"	SF-TA-1504	94	40	21.34	15.8
15Ax3/8"	SF-TA-1506	95.3	40	21.34	15.8
15Ax1/2"	SF-TA-1508	97.7	40	21.34	15.8
15Ax3/4"	SF-TA-1512	103	40	21.34	15.8
15Ax1"	SF-TA-1516	107	40	21.34	15.8
20Ax1/4"	SF-TA-2004	94	40	26.67	20.93
20Ax3/8"	SF-TA-2006	95.3	40	26.67	20.93
20Ax1/2"	SF-TA-2008	97.7	40	26.67	20.93
20Ax3/4"	SF-TA-2012	103	40	26.67	20.93
20Ax1"	SF-TA-2016	107	40	26.67	20.93
25Ax1/4"	SF-TA-2504	94	40	33.4	26.64
25Ax3/8"	SF-TA-2506	95.3	40	33.4	26.64
25Ax1/2"	SF-TA-2508	97.7	40	33.4	26.64
25Ax3/4"	SF-TA-2512	103	40	33.4	26.64
25Ax1"	SF-TA-2516	107	40	33.4	26.64

* 상기 사이즈 외에는 영업부 문의 바랍니다.

SPACE SAVER ADAPTOR

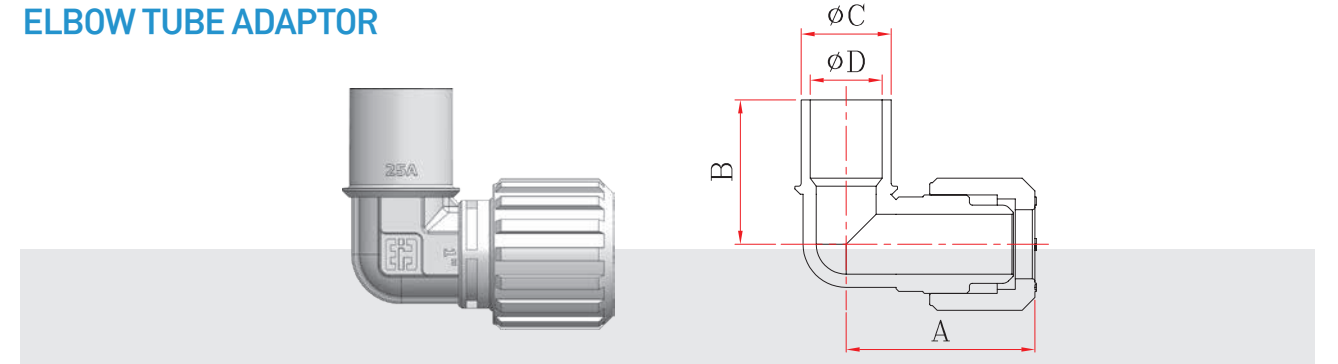


단위 : mm

SIZE	P/N	A	B	ØC	ØD
15Ax1/2"	SF-SSA-1508	98.7	40	21.34	15.8
15Ax3/4"	SF-SSA-1512	105	40	21.34	15.8
15Ax1"	SF-SSA-1516	113	40	21.34	15.8
20Ax1/2"	SF-SSA-2008	98.7	40	26.67	20.93
20Ax3/4"	SF-SSA-2012	105	40	26.67	20.93
20Ax1"	SF-SSA-2016	113	40	26.67	20.93
25Ax1/2"	SF-SSA-2508	98.7	40	33.4	26.64
25Ax3/4"	SF-SSA-2512	105	40	33.4	26.64
25Ax1"	SF-SSA-2516	113	40	33.4	26.64

* 상기 사이즈 외에는 영업부 문의 바랍니다.

ELBOW TUBE ADAPTOR

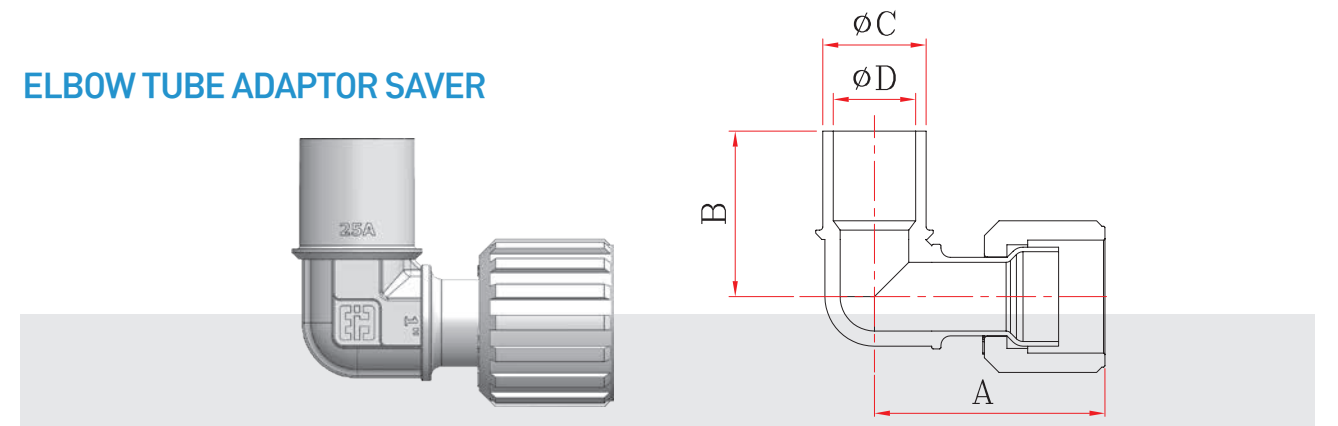


단위 : mm

SIZE	P/N	A	B	ØC	ØD
15Ax1/2"	SF-ETA-1508	52.7	47	21.34	15.8
15Ax3/4"	SF-ETA-1512	63	52	21.34	15.8
20Ax3/4"	SF-ETA-2012	63	52	26.67	20.93
20Ax1"	SF-ETA-2016	72	52	26.67	20.93
25Ax3/4"	SF-ETA-2512	63	52	33.4	26.64
25Ax1"	SF-ETA-2516	68.5	53.5	33.4	26.64

* 상기 사이즈 외에는 영업부 문의 바랍니다.

ELBOW TUBE ADAPTOR SAVER

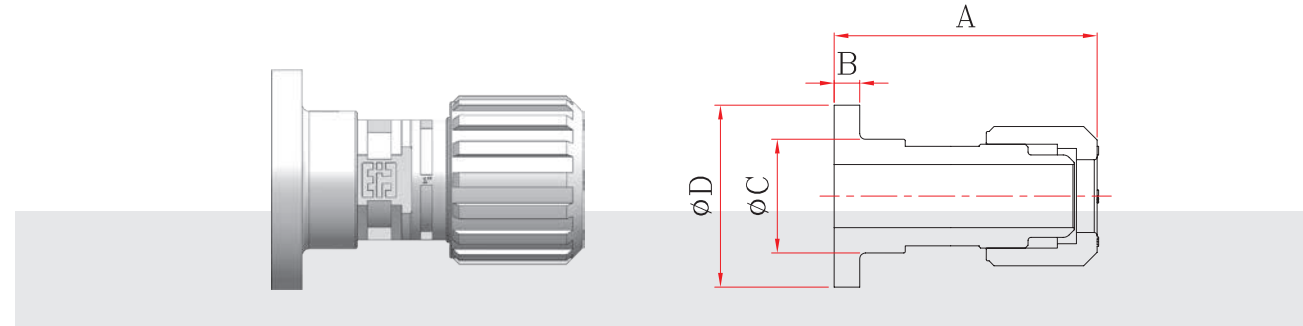


단위 : mm

SIZE	P/N	A	B	ØC	ØD
20Ax3/4"	SF-ETAS-2012	65	52	26.67	20.93
20Ax1"	SF-ETAS-2016	73	52	26.67	20.93
25Ax3/4"	SF-ETAS-2512	65	52	33.4	26.64
25Ax1"	SF-ETAS-2516	74.5	53.5	33.4	26.64

* 상기 사이즈 외에는 영업부 문의 바랍니다.

UNION FLANGE ADAPTOR

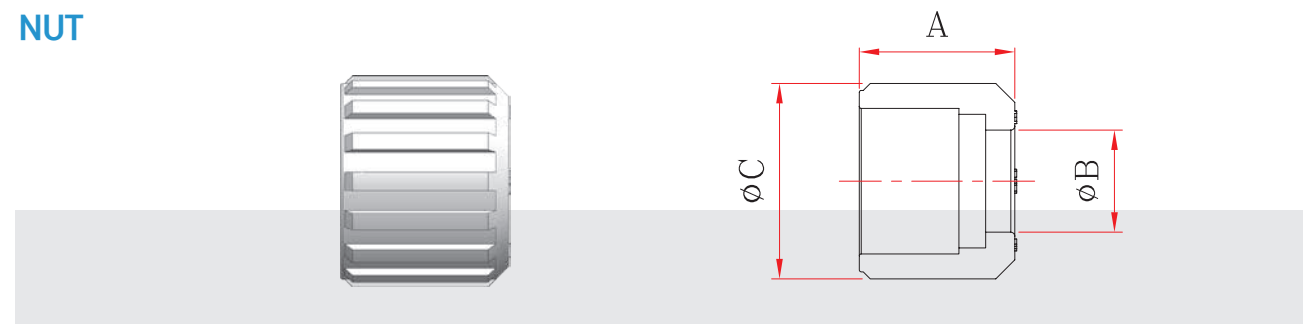


단위 : mm

SIZE	P/N	A	B	ØC	ØD
15A \times 3/8"	SF-UFA-1506J	61.3	7	30	50
15A \times 1/2"	SF-UFA-1508J	63.7	7	30	50
20A \times 1/4"	SF-UFA-2004J	69	7	30	55
20A \times 1/2"	SF-UFA-2008J	72.7	7	30	55
20A \times 3/4"	SF-UFA-2012J	78	7	30	55
20A \times 1"	SF-UFA-2016J	89	7	40	55
25A \times 1/2"	SF-UFA-2508J	79.7	7	40	64
25A \times 3/4"	SF-UFA-2512J	85	7	40	64
25A \times 1"	SF-UFA-2516J	89	7	40	64

* 상기 사이즈 외에는 영업부 문의 바랍니다.

NUT

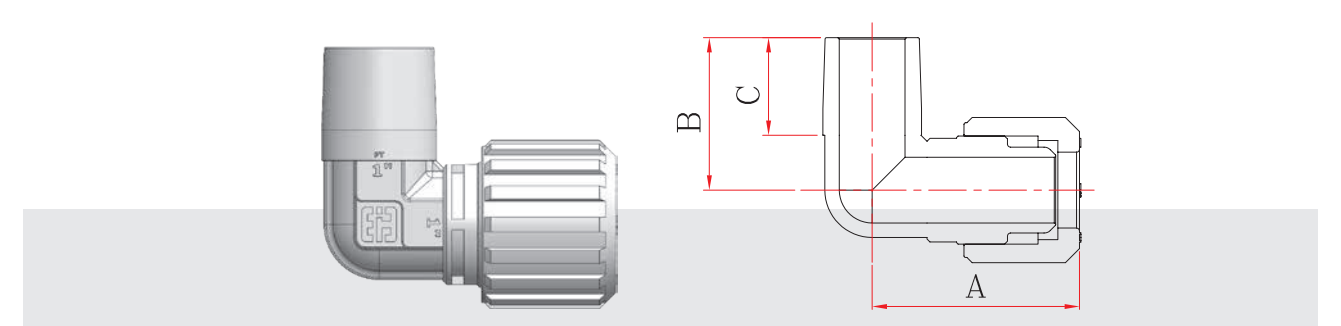


단위 : mm

SIZE	P/N	A	B	ØC
1/4"	SF-NUT-04	26	6.5	22
3/8"	SF-NUT-06	27.3	9.6	26
1/2"	SF-NUT-08	29.7	12.8	29
3/4"	SF-NUT-12	34	19.1	37.2
1"	SF-NUT-16	39	25.6	49

* 상기 사이즈 외에는 영업부 문의 바랍니다.

MALE ELBOW CONNECTOR

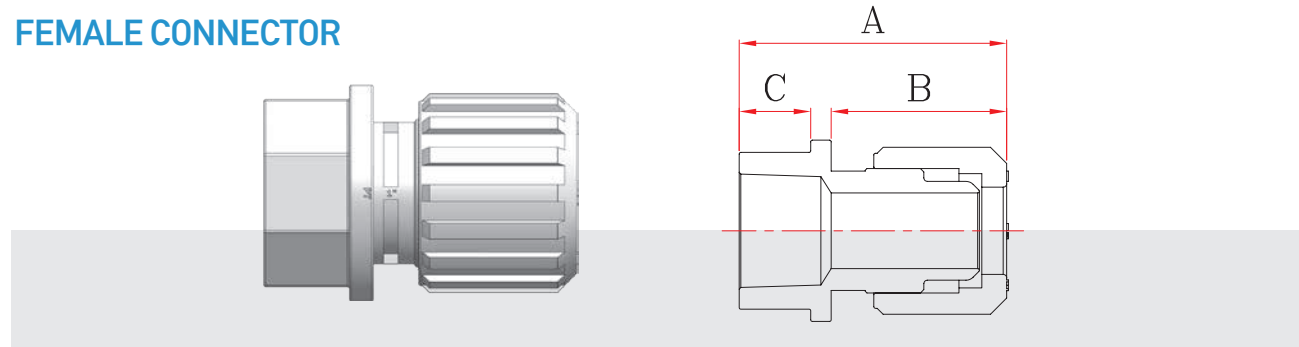


단위 : mm

SIZE	P/N	A	B	C	PT/NPT
1/4" \times 1/4"N	SF-MEC-0404N	43	29	23	NPT
3/8" \times 3/8"N	SF-MEC-0606N	47.8	32.5	23	NPT
1/2" \times 1/2"N	SF-MEC-0808N	52.7	39	27	NPT
3/4" \times 3/4"N	SF-MEC-1212N	63	46	29	NPT
1" \times 1"N	SF-MEC-1616N	68.5	51.5	33	NPT
1/4" \times 1/4"P	SF-MEC-0404P	43	29	23	PT
3/8" \times 3/8"P	SF-MEC-0606P	47.8	32.5	23	PT
1/2" \times 1/2"P	SF-MEC-0808P	52.7	39	27	PT
3/4" \times 3/4"P	SF-MEC-1212P	63	46	29	PT
1" \times 1"P	SF-MEC-1616P	68.5	51.5	33	PT

* 상기 사이즈 외에는 영업부 문의 바랍니다.

FEMALE CONNECTOR

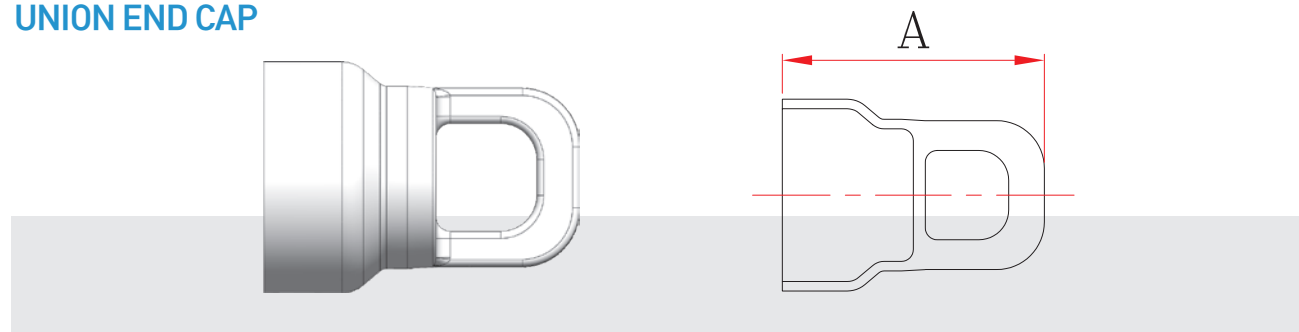


단위 : mm

SIZE	P/N	A	B	C	PT/NPT
1/4"x1/4"N	SF-FMC-0404N	56	37	13	NPT
3/8"x3/8"N	SF-FMC-0606N	57.3	38.3	13	NPT
1/2"x1/2"N	SF-FMC-0808N	63.7	40.7	17	NPT
3/4"x3/4"N	SF-FMC-1212N	71	46	19	NPT
1"x1"N	SF-FMC-1616N	79	50	23	NPT
1/4"x1/4"P	SF-FMC-0404P	56	37	13	PT
3/8"x3/8"P	SF-FMC-0606P	57.3	38.3	13	PT
1/2"x1/2"P	SF-FMC-0808P	63.7	40.7	17	PT
3/4"x3/4"P	SF-FMC-1212P	71	46	19	PT
1"x1"P	SF-FMC-1616P	79	50	23	PT

* 상기 사이즈 외에는 영업부 문의 바랍니다.

UNION END CAP

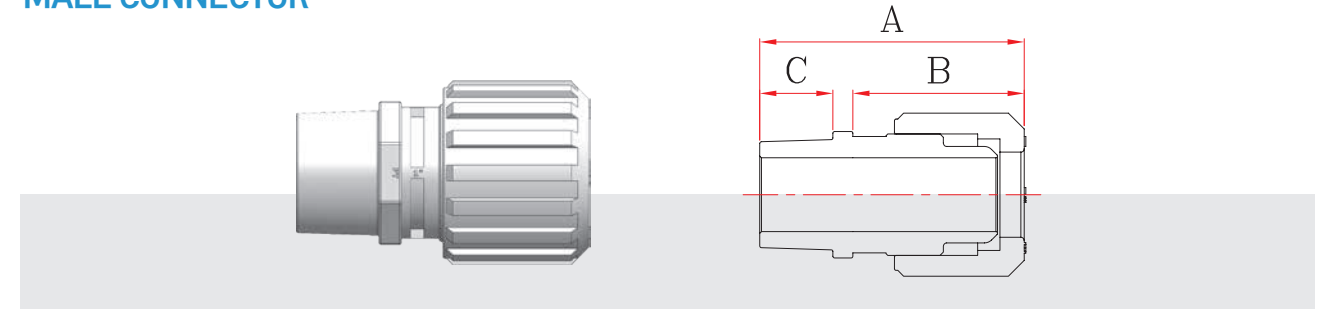


단위 : mm

SIZE	P/N	A	비고
1/4"	SF-UCAP-04	30	Buttless Type 제품과 호환 가능합니다.
3/8"	SF-UCAP-06	41	
1/2"	SF-UCAP-08	42	
3/4"	SF-UCAP-12	43	
1"	SF-UCAP-16	44	

* 상기 사이즈 외에는 영업부 문의 바랍니다.

MALE CONNECTOR

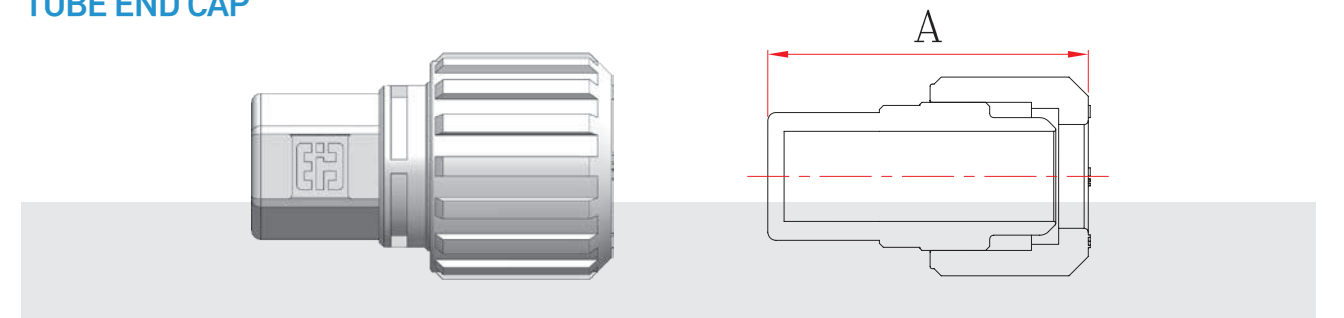


단위 : mm

SIZE	P/N	A	B	C	PT/NPT
1/4"x1/4"N	SF-MC-0404N	55	37	12	NPT
3/8"x3/8"N	SF-MC-0606N	56.3	38.3	12	NPT
1/2"x1/2"N	SF-MC-0808N	62.7	40.7	16	NPT
3/4"x3/4"N	SF-MC-1212N	70	46	18	NPT
1"x1"N	SF-MC-1616N	78	50	22	NPT
1/4"x1/4"P	SF-MC-0404P	55	37	12	PT
3/8"x3/8"P	SF-MC-0606P	56.3	38.3	12	PT
1/2"x1/2"P	SF-MC-0808P	62.7	40.7	16	PT
3/4"x3/4"P	SF-MC-1212P	70	46	18	PT
1"x1"P	SF-MC-1616P	78	50	22	PT

* 상기 사이즈 외에는 영업부 문의 바랍니다.

TUBE END CAP

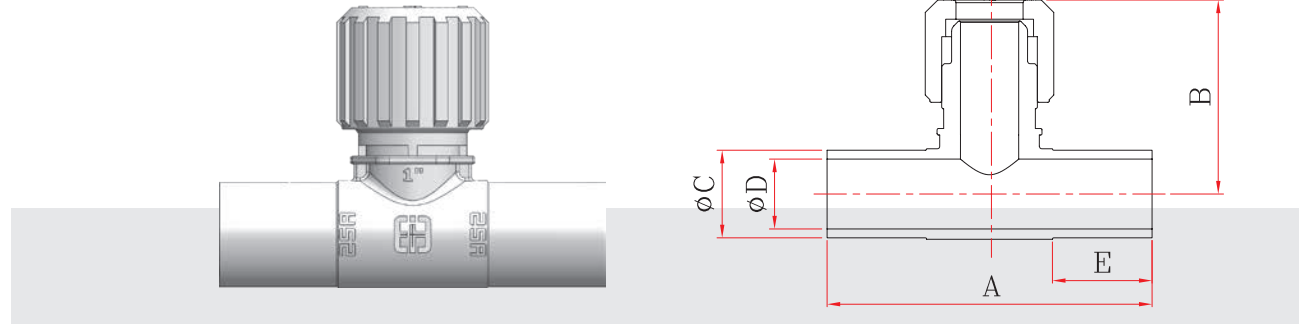


단위 : mm

SIZE	P/N	A
1/4"	SF-TCAP-04	51
3/8"	SF-TCAP-06	52.3
1/2"	SF-TCAP-08	60.7
3/4"	SF-TCAP-12	72
1"	SF-TCAP-16	77.5

* 상기 사이즈 외에는 영업부 문의 바랍니다.

PIPE TEE A/D

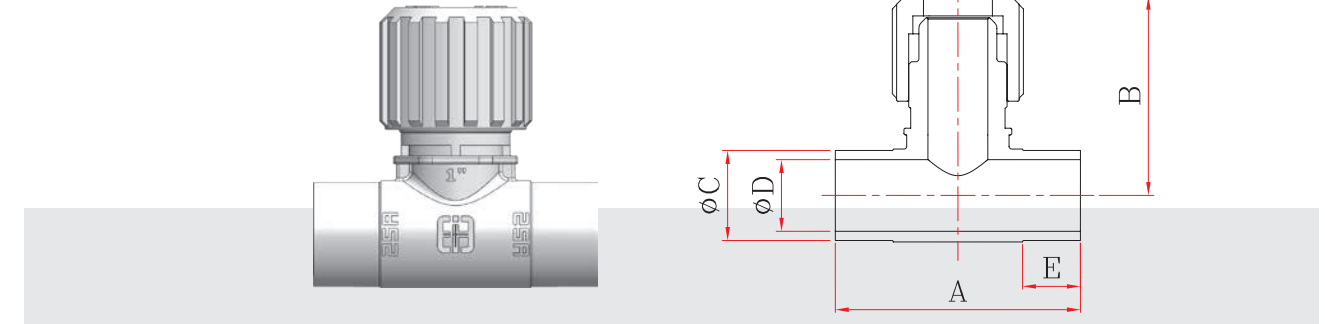


단위 : mm

SIZE	P/N	A	B	ØC	ØD	E
15Ax1/4"x15A	SF-PTA-150415	120	53.5	21.34	15.8	38
15Ax1/2"x15A	SF-PTA-150815	120	57.2	21.34	15.8	38
20Ax1/4"x20A	SF-PTA-200420	120	56.5	26.67	20.93	38
20Ax1/2"x20A	SF-PTA-200820	120	60.2	26.67	20.93	38
20Ax3/4"x20A	SF-PTA-201220	120	65.5	26.67	20.93	38
20Ax1"x20A	SF-PTA-201620	120	69.5	26.67	20.93	38
25Ax1/4"x25A	SF-PTA-250425	124	59.5	33.4	26.64	38
25Ax1/2"x25A	SF-PTA-250825	124	63.2	33.4	26.64	38
25Ax3/4"x25A	SF-PTA-251225	124	68.5	33.4	26.64	38
25Ax1"x25A	SF-PTA-251625	124	72.5	33.4	26.64	38
40Ax1/4"x40A	SF-PTA-400440	149	67	48.26	40.86	38
40Ax1/2"x40A	SF-PTA-400840	149	70.7	48.26	40.86	38
40Ax3/4"x40A	SF-PTA-401240	149	76	48.26	40.86	38
40Ax1"x40A	SF-PTA-401640	149	80	48.26	40.86	38
50Ax1/4"x50A	SF-PTA-500450	166	73	60.33	52.5	38
50Ax1/2"x50A	SF-PTA-500850	166	76.7	60.33	52.5	38
50Ax3/4"x50A	SF-PTA-501250	166	82	60.33	52.5	38
50Ax1"x50A	SF-PTA-501650	166	86	60.33	52.5	38

*상기 사이즈 외에는 영업부 문의 바랍니다.

SHORT PIPE TEE A/D



단위 : mm

SIZE	P/N	A	B	ØC	ØD	E
15Ax1/4"x15A	SF-SPTA-150415	87	53.5	21.34	15.8	21.5
15Ax1/2"x15A	SF-SPTA-150815	87	57.2	21.34	15.8	21.5
20Ax1/4"x20A	SF-SPTA-200420	87	56.5	26.67	20.93	21.5
20Ax1/2"x20A	SF-SPTA-200820	87	60.2	26.67	20.93	21.5
20Ax3/4"x20A	SF-SPTA-201220	87	65.5	26.67	20.93	21.5
20Ax1"x20A	SF-SPTA-201620	87	69.5	26.67	20.93	21.5
25Ax1/4"x25A	SF-SPTA-250425	91	59.5	33.4	26.64	21.5
25Ax1/2"x25A	SF-SPTA-250825	91	63.2	33.4	26.64	21.5
25Ax3/4"x25A	SF-SPTA-251225	91	68.5	33.4	26.64	21.5
25Ax1"x25A	SF-SPTA-251625	91	72.5	33.4	26.64	21.5
40Ax1/4"x40A	SF-SPTA-400440	121	67	48.26	40.86	24
40Ax1/2"x40A	SF-SPTA-400840	121	70.7	48.26	40.86	24
40Ax3/4"x40A	SF-SPTA-401240	121	76	48.26	40.86	24
40Ax1"x40A	SF-SPTA-401640	121	80	48.26	40.86	24
50Ax1/4"x50A	SF-SPTA-500450	140.5	73	60.33	52.5	25
50Ax1/2"x50A	SF-SPTA-500850	140.5	76.7	60.33	52.5	25
50Ax3/4"x50A	SF-SPTA-501250	140.5	82	60.33	52.5	25
50Ax1"x50A	SF-SPTA-501650	140.5	86	60.33	52.5	25

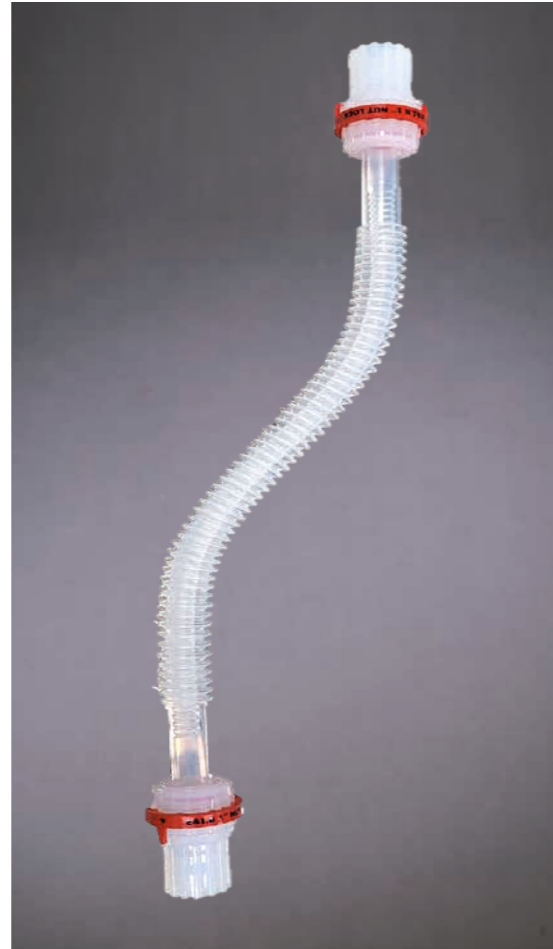
*상기 사이즈 외에는 영업부 문의 바랍니다.

FLEXIBLE HOSE CONNECTION FITTING

[Patent No.: 10-2288442]

FLEXIBLE HOSE CONNECTION FITTING은 불소수지만을 사용하여 제작되었으며, 고순도의 약액 이송에 최적화하여 설계된 제품입니다.

FLEXIBLE HOSE CONNECTION FITTING is made only of fluoropolymer material and is designed to generate optimal performance in handling high-purity chemicals.



ORDERING INFORMATION

UF - FLEX - □□□□ - EN-EFTF

- 1. Product Name**
MASTER® LOCK UNION FITTING
- 2. Type**
Flexible Hose Connection Fitting
- 3. Code_Size**
 - 0604 3/8X1/4"
 - 0806 1/2"X3/8"
 - 1208 3/4"X1/2"
 - 1612 1"X3/4"
 - 2016 1-1/4"X1"
- 4. Connection**
ENIB / ENTG FLARETEK

EXAMPLE

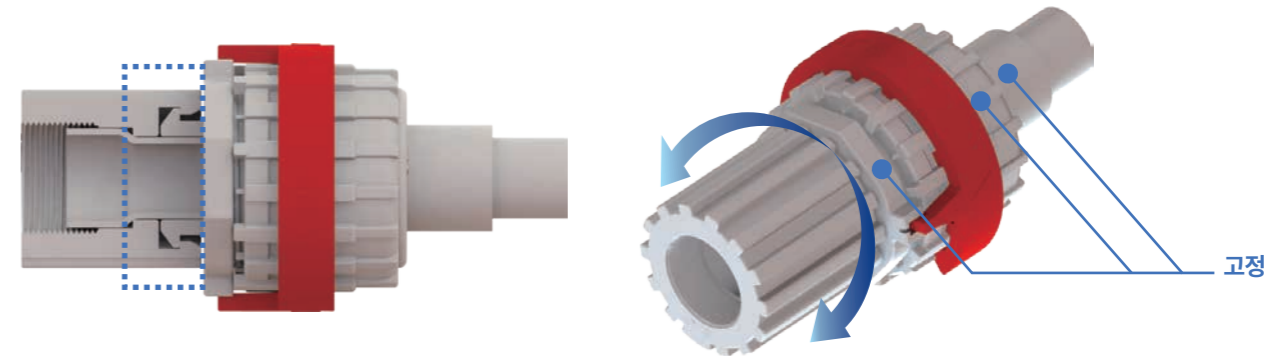
UF-FLEX-1612-EN-ETFT

- ① UF : MASTER® LOCK UNION FITTING
- ② FLEX : Flexible Hose Connection Fitting
- ③ 1612 : 1"X3/4"
- ④ EN-EFTF : ENIB / ENTG FLARETEK

MAJOR FUNCTIONS AND FEATURES

- 고순도 불소수지 재질로만 제작된 Fitting이며, Chemical 적용시 오염 및 부식이 발생하지 않는다.
- Flexible Hose를 사용하여 쉽게 구부려 사용 가능
- 이중 배관을 사용하여 2차 누출 방지
- Nut Lock 구성으로 진동이나 임의의 풀림방지
- Fitting Body와 Nut가 따로 회전이 가능하여 Nut 체결 시 Fitting, Flexible Hose가 같이 회전하지 않아 체결시 용이

- FITTING made entirely of high-purity fluoropolymer material, ensuring no contamination or corrosion when exposed to chemicals.
- Easy to bend and use thanks to the use of flexible hoses.
- Equipped with double piping for secondary leakage prevention.
- Nut Lock stabilize and prevent loosening of valve components adding additional safety.
- The FITTING body and nut can rotate independently, preventing the FITTING or flexible hose from rotating during nut tightening, making assembly easier.



TECHNICAL SPECIFICATIONS

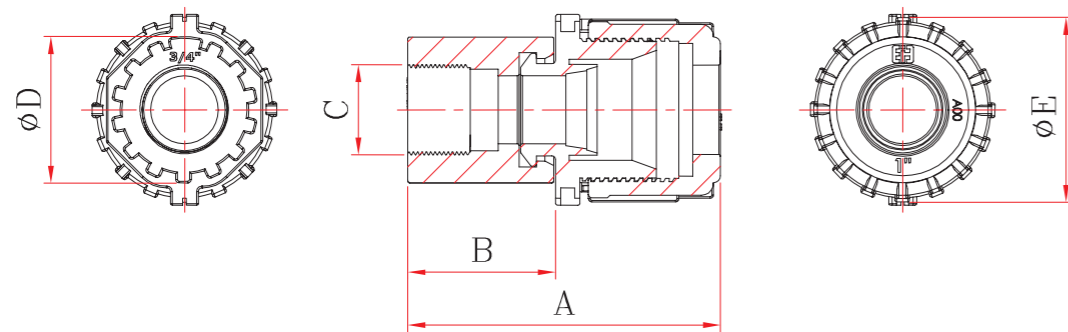
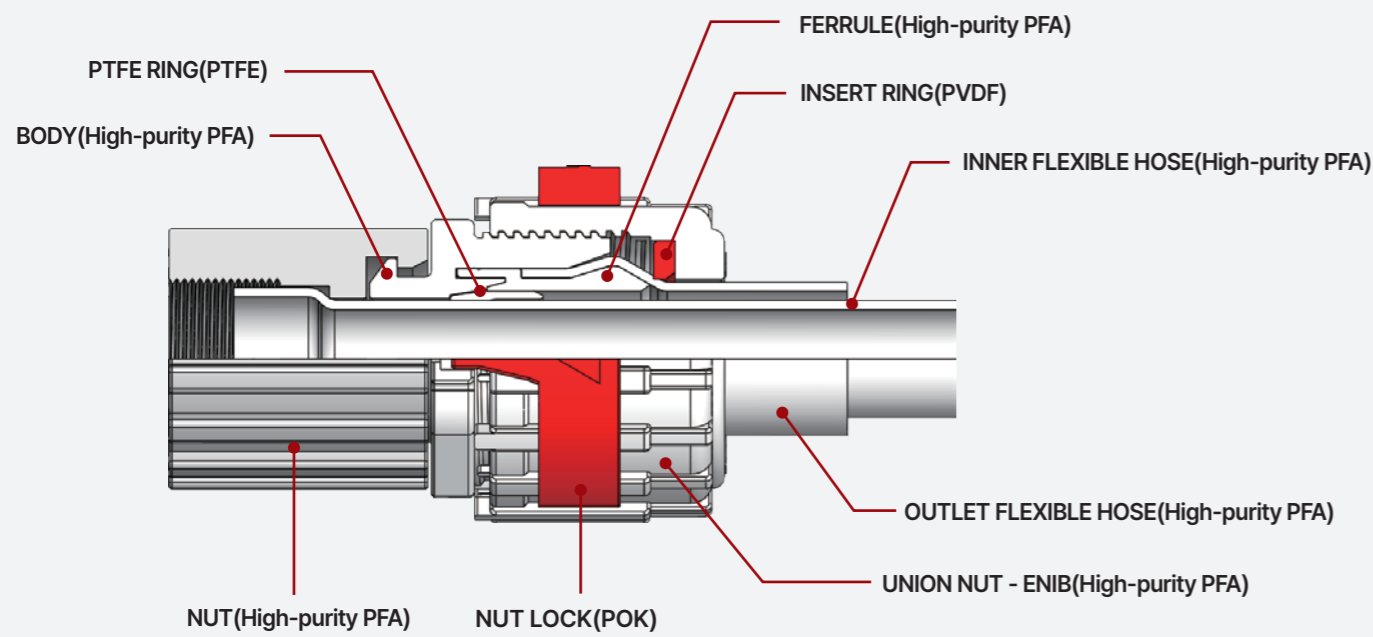
1. Port Connection & Port Size

CONNECTION TYPE	SIZE
Flare Type	1/4"~1"

2. Operating Specification

Operating Temperature	Maximum Operating Pressure
0~90 °C	6bar(0.6Mpa)

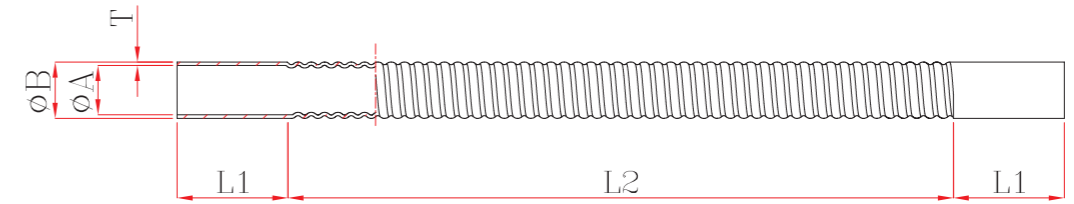
FLEXIBLE HOSE CONNECTION FITTING
MATERIAL CONSTRUCTION & DIMENSION TABLE



단위 : mm

SIZE	P/N	A	B	ØD	ØE
3/8"X1/4"	UF-FLEX-0604-EN-ETFT	66	35.5	24.2	28.4
1/2"X3/8"	UF-FLEX-0806-EN-ETFT	69	36	28.4	33.6
3/4"X1/2"	UF-FLEX-1208-EN-ETFT	77	38	33.6	42.2
1"X3/4"	UF-FLEX-1612-EN-ETFT	88	42	42.2	53.2
1-1/4"X1"	UF-FLEX-2016-EN-ETFT	109	52	52.5	70

Inner Flexible Hose Dimension (Spiral Type)

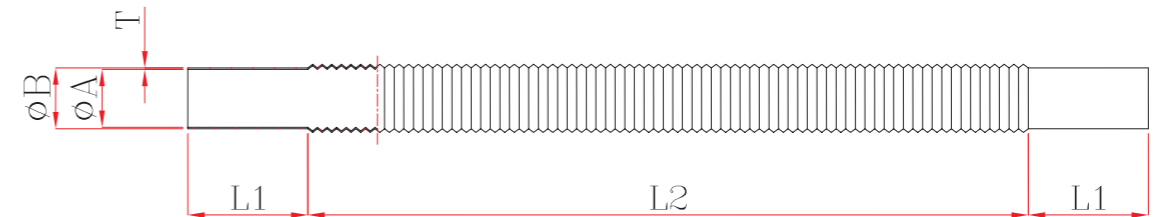


단위 : mm

SIZE	A(외경)	B(내경)	T	L1	L2	사용압력(bar)	파괴압력(bar)
1/4"	6.35	4.35	1	50	500	6	17.5
3/8"	9.5	6.39	1.57	50	500	6	17.2
1/2"	12.7	9.56	1.57	70	600	6	13
3/4"	19.05	15.91	1.57	70	600	6	9.5
1"	25.4	22.26	1.57	70	600	6	8.2

* L2 길이는 영업부 문의바랍니다.

Outer Flexible Hose Dimension (Bellows Type)



단위 : mm

SIZE	A(외경)	B(내경)	T	L1	L2	사용압력(bar)	파괴압력(bar)
3/8"	9.53	8.53	0.5	50	450	2	11
1/2"	12.7	11.7	0.5	50	450	2	8.2
3/4"	19.05	17.65	0.7	70	460	2	6.9
1"	25.4	23.4	1	80	440	2	6.2
1-1/4"	31.8	29.8	1	80	420	2	5.8

* L2 길이는 영업부 문의바랍니다.

PIPE FITTING

Fusible Type

PFA 배관 및 장치의 연결 접속관으로서 PFA PIPE FITTING (FUSIBLE FITTING)은 용융맞대기 용접으로 보다 안전하고 강력한 접속배관의 구성을 가능케 한다.

PFA PIPE Fittings (FUSIBLE FITTING) used on PFA pipings and equipment utilize a butt welding method, which results in more robust and secure connections.



TECHNICAL SPECIFICATIONS

1. Port Connection & Port Size

ENIB Pipe Weld
- 15A, 20A, 25A, 40A, 50A

2. Operating Specification

Operating Temperature	Maximum Operating Pressure
0~150°C	12kg/cm ² (1.2Mpa)

3. Material Construction

High purity PFA

ORDERING INFORMATION

PF - □□□ - □□

1. Product Name

PIPE Fitting

2. Code_Shape

PT : PIPE TEE
SPT : SHORT PIPE TEE
PRT : PIPE RED TEE
SPRT : SHORT PIPE RED TEE
PE : PIPE ELBOW
SPE : SHORT PIPE ELBOW
PRE : PIPE RED ELBOW
SPRE : SHORT PIPE RED ELBOW
PR : PIPE REDUCER
SPR : SHORT PIPE REDUCER
PTA : PIPE TEE ADAPTOR
SPTA : SHORT PIPE TEE ADAPTOR
SPTAS : SHORT PIPE TEE ADAPTOR SAVER
PFA : PIPE FLANGE ADAPTOR
SPFA : SHORT PIPE FLANGE ADAPTOR
PCAP : PIPE END CAP

3. Code_Size

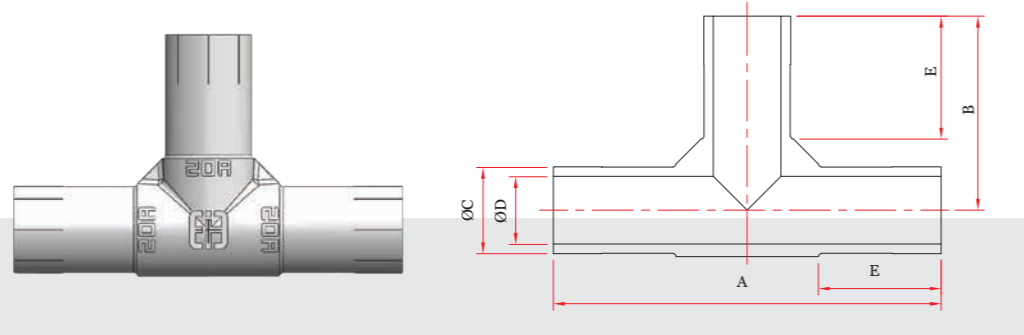
15 : 15A
20 : 20A
25 : 25A
40 : 40A
50 : 50A

EXAMPLE

PF-SPRT-251525

PF : Pipe Fitting
SPRT : Short Pipe Red Tee
251525 : 25A X 15A X 25A

PIPE TEE

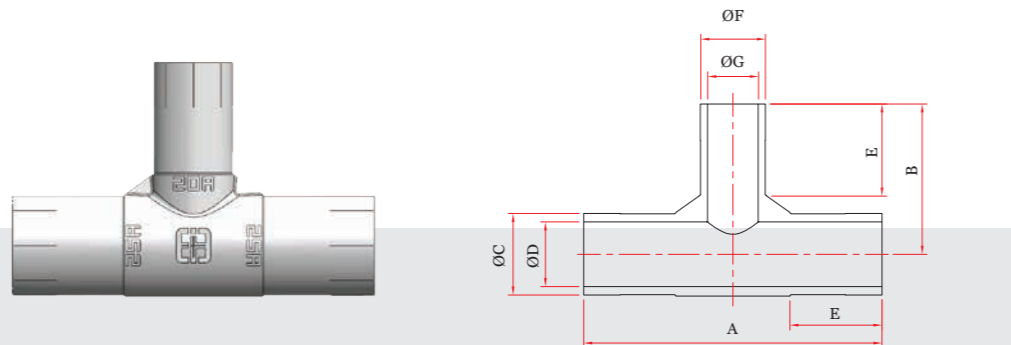


단위 : mm

SIZE	P/N	A	B	ØC	ØD	E
15A	PF-PT-15	120	60	21.34	15.8	38
20A	PF-PT-20	120	60	26.67	20.93	38
25A	PF-PT-25	124	62	33.4	26.64	38
40A	PF-PT-40	149	74.5	48.26	40.86	38
50A	PF-PT-50	166	83	60.33	52.5	38

*상기 사이즈 외에는 영업부 문의 바랍니다.

PIPE RED TEE

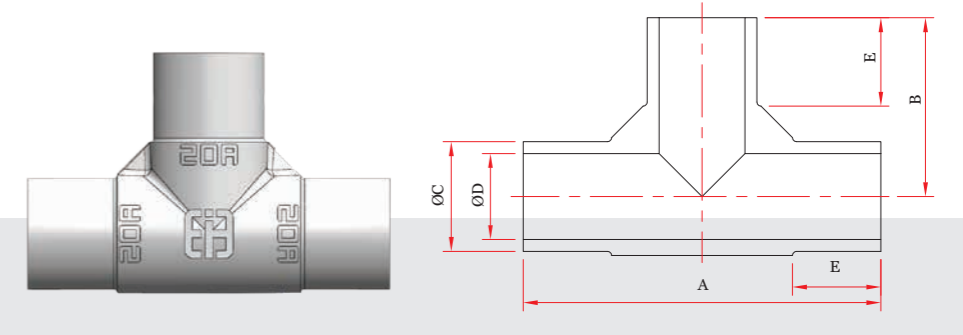


단위 : mm

SIZE	P/N	A	B	ØC	ØD	E	ØF	ØG
20AX15AX20A	PF-PRT-201520	119.5	60	26.67	20.93	38	21.34	15.8
25AX15AX25A	PF-PRT-251525	123	62	33.4	26.64	38	21.34	15.8
25AX20AX25A	PF-PRT-252025	123	62	33.4	26.64	38	26.67	20.93
40AX15AX40A	PF-PRT-401540	149	75	48.26	40.86	38	21.34	15.8
40AX20AX40A	PF-PRT-402040	149	75	48.26	40.86	38	26.67	20.93
40AX25AX40A	PF-PRT-402540	149	75	48.26	40.86	38	33.4	26.64
50AX15AX50A	PF-PRT-501550	166	84	60.33	52.5	38	21.34	15.8
50AX20AX50A	PF-PRT-502050	166	84	60.33	52.5	38	26.67	20.93
50AX25AX50A	PF-PRT-502550	166	84	60.33	52.5	38	33.4	26.64
50AX40AX50A	PF-PRT-504050	166	84	60.33	52.5	38	48.26	40.86

*상기 사이즈 외에는 영업부 문의 바랍니다.

SHORT PIPE TEE

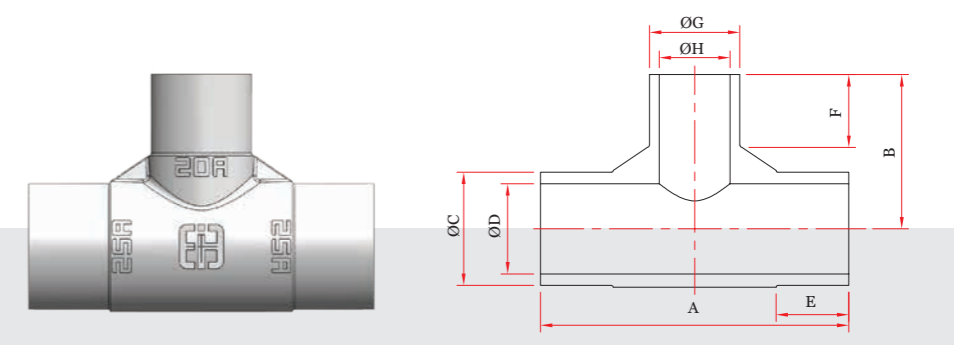


단위 : mm

SIZE	P/N	A	B	ØC	ØD	E
15A	PF-SPT-15	87	43.5	21.34	15.8	21.5
20A	PF-SPT-20	87	43.5	26.67	20.93	21.5
25A	PF-SPT-25	91	45.5	33.4	26.64	21.5
40A	PF-SPT-40	121	61	48.26	40.86	24
50A	PF-SPT-50	140.5	70.5	60.33	52.5	25

*상기 사이즈 외에는 영업부 문의 바랍니다.

SHORT PIPE RED TEE

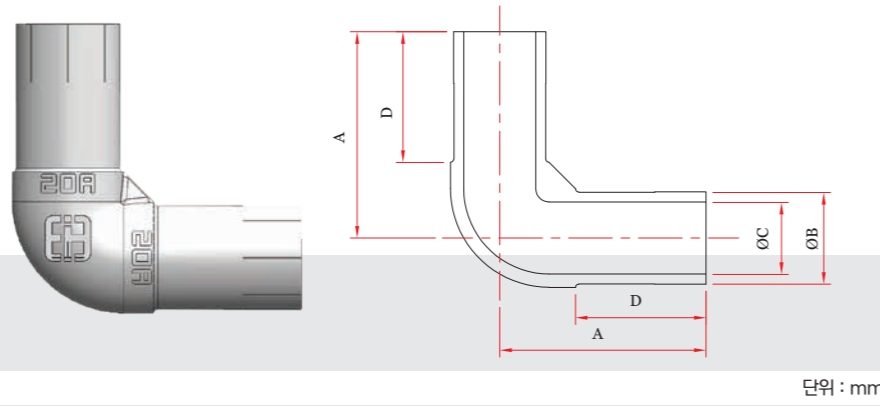


단위 : mm

SIZE	P/N	A	B	ØC	ØD	E	F	ØG	ØH
20AX15AX20A	PF-SPRT-201520	87	43.5	26.67	20.93	21.5	21.5	21.34	15.8
25AX15AX25A	PF-SPRT-251525	91	45.5	33.4	26.64	21.5	21.5	21.34	15.8
25AX20AX25A	PF-SPRT-252025	91	45.5	33.4	26.64	21.5	21.5	26.67	20.93
40AX15AX40A	PF-SPRT-401540	121	58.5	48.26	40.86	24	21.5	21.34	15.8
40AX20AX40A	PF-SPRT-402040	121	58.5	48.26	40.86	24	21.5	26.67	20.93
40AX25AX40A	PF-SPRT-402540	121	58.5	48.26	40.86	24	21.5	33.4	26.64
50AX15AX50A	PF-SPRT-501550	140.5	67.5	60.33	52.5	25	21.5	21.34	15.8
50AX20AX50A	PF-SPRT-502050	140.5	67.5	60.33	52.5	25	21.5	26.67	20.93
50AX25AX50A	PF-SPRT-502550	140.5	67.5	60.33	52.5	25	21.5	33.4	26.64
50AX40AX50A	PF-SPRT-504050	140.5	67.5	60.33	52.5	25	21.5	48.26	40.86

*상기 사이즈 외에는 영업부 문의 바랍니다.

PIPE ELBOW

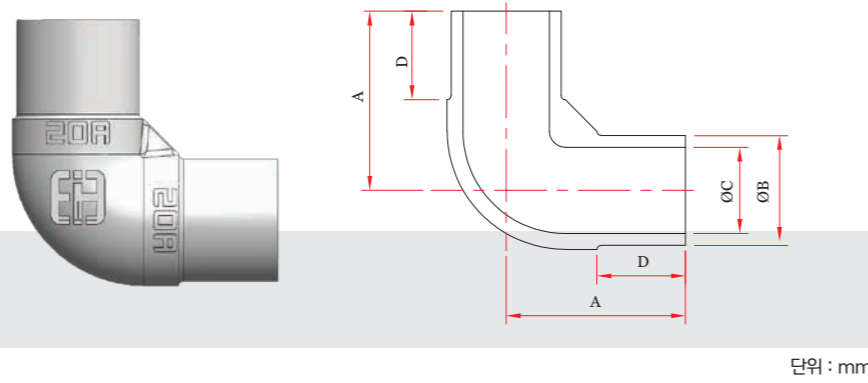


단위 : mm

SIZE	P/N	A	ØB	ØC	D
15A	PF-PE-15	60	21.34	15.8	38
20A	PF-PE-20	60	26.67	20.93	38
25A	PF-PE-25	62	33.4	26.64	38
40A	PF-PE-40	75	48.26	40.86	38
50A	PF-PE-50	83	60.33	52.5	38

*상기 사이즈 외에는 영업부 문의 바랍니다.

SHORT PIPE ELBOW

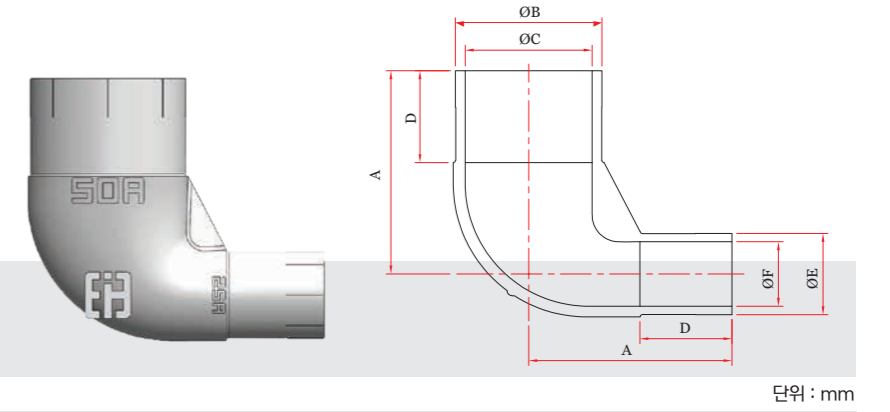


단위 : mm

SIZE	P/N	A	ØB	ØC	D
15A	PF-SPE-15	43.5	21.34	15.8	21.5
20A	PF-SPE-20	43.5	26.67	20.93	21.5
25A	PF-SPE-25	45.5	33.4	26.64	21.5
40A	PF-SPE-40	60.5	48.26	40.86	24
50A	PF-SPE-50	70.5	60.33	52.5	25

*상기 사이즈 외에는 영업부 문의 바랍니다.

PIPE RED ELBOW

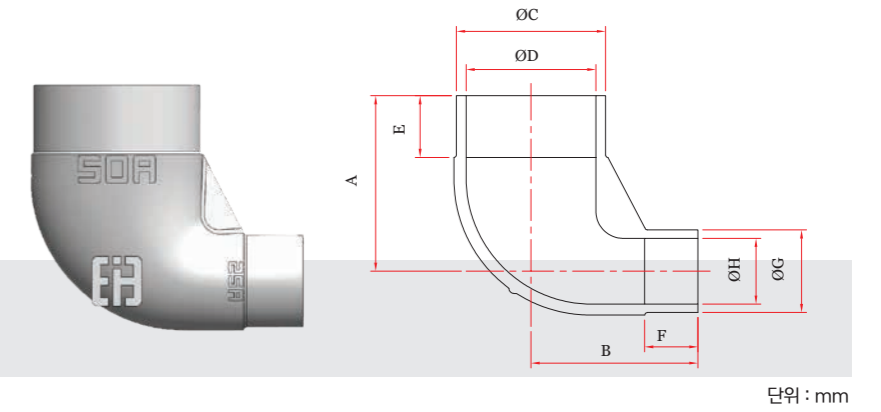


단위 : mm

SIZE	P/N	A	ØB	ØC	D	ØE	ØF
40AX25A	PF-PRE-4025	75	48.26	40.86	38	33.4	26.64
50AX25A	PF-PRE-5025	84	60.33	52.5	38	33.4	26.64

*상기 사이즈 외에는 영업부 문의 바랍니다.

SHORT PIPE RED ELBOW

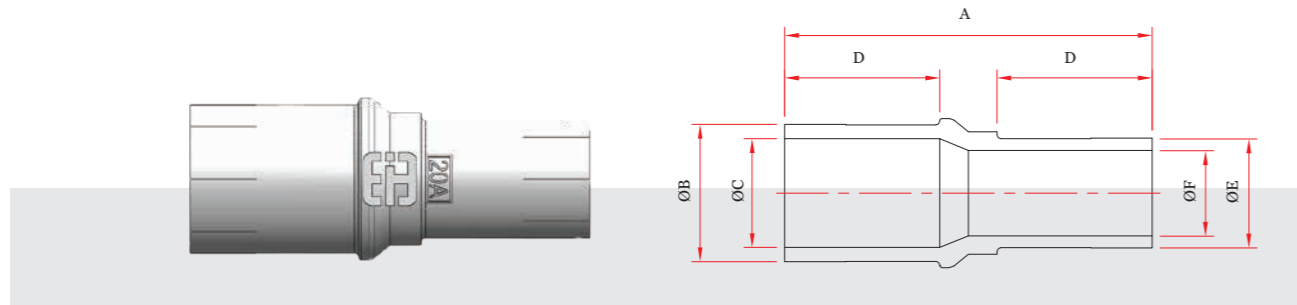


단위 : mm

SIZE	P/N	A	B	ØC	ØD	E	F	ØG	ØH
20AX15A	PF-SPRE-2015	43.5	43.5	26.67	20.93	21.5	21.5	21.34	15.8
25AX20A	PF-SPRE-2520	45.5	45.5	33.4	26.64	21.5	21.5	26.67	20.93
40AX25A	PF-SPRE-4025	61	58.5	48.26	40.86	24	21.5	33.4	26.64
50AX25A	PF-SPRE-5025	71	67.5	60.33	52.5	25	21.5	33.4	26.64

*상기 사이즈 외에는 영업부 문의 바랍니다.

PIPE REDUCER

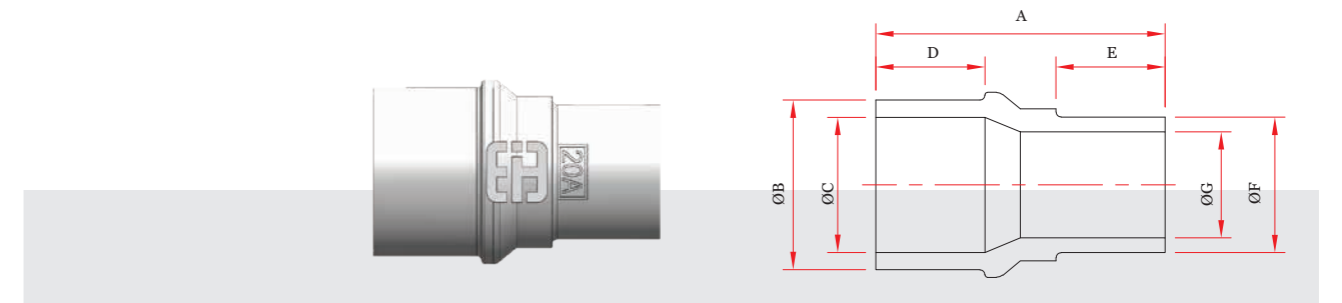


단위 : mm

SIZE	P/N	A	ØB	ØC	D	ØE	ØF
20AX15A	PF-PR-2015	90	26.67	20.93	38	21.34	15.8
25AX15A	PF-PR-2515	90	33.4	26.64	38	21.34	15.5
25AX20A	PF-PR-2520	90	33.4	26.64	38	26.67	20.93
40AX15A	PF-PR-4015	102	48.26	40.86	38	21.34	15.8
40AX20A	PF-PR-4020	102	48.26	40.86	38	26.67	20.93
40AX25A	PF-PR-4025	102	48.26	40.86	38	33.4	26.64
50AX15A	PF-PR-5015	111	60.33	52.5	38	21.34	15.8
50AX20A	PF-PR-5020	111	60.33	52.5	38	26.67	20.93
50AX25A	PF-PR-5025	111	60.33	52.5	38	33.4	26.64
50AX40A	PF-PR-5040	111	60.33	52.5	38	48.26	40.89

*상기 사이즈 외에는 영업부 문의 바랍니다.

SHORT PIPE REDUCER

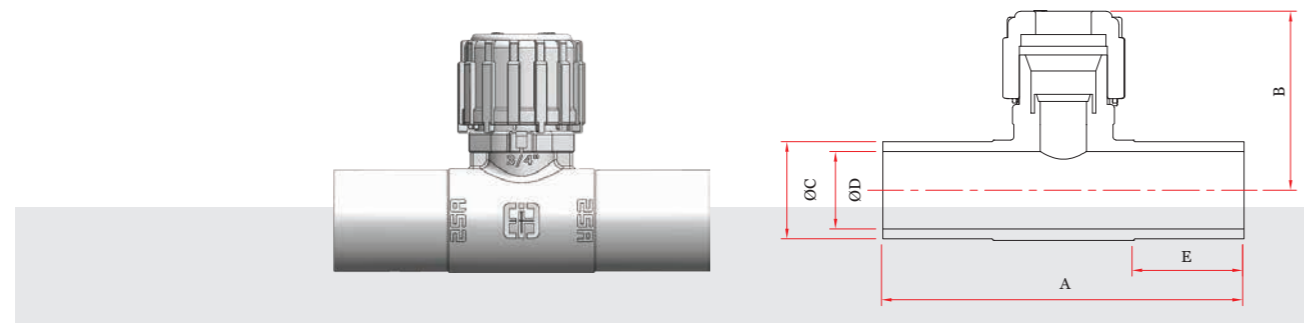


단위 : mm

SIZE	P/N	A	ØB	ØC	D	E	ØF	ØG
20AX15A	PF-SPR-2015	57	26.67	20.93	21.5	21.5	21.34	15.8
25AX15A	PF-SPR-2515	57	33.4	26.64	21.5	21.5	21.34	15.5
25AX20A	PF-SPR-2520	57	33.4	26.64	21.5	21.5	26.67	20.93
40AX15A	PF-SPR-4015	71.5	48.26	40.86	24	21.5	21.34	15.8
40AX20A	PF-SPR-4020	71.5	48.26	40.86	24	21.5	26.67	20.93
40AX25A	PF-SPR-4025	71.5	48.26	40.86	24	21.5	33.4	26.64
50AX15A	PF-SPR-5015	81.5	60.33	52.5	25	21.5	21.34	15.8
50AX20A	PF-SPR-5020	81.5	60.33	52.5	25	21.5	26.67	20.93
50AX25A	PF-SPR-5025	81.5	60.33	52.5	25	21.5	33.4	26.64
50AX40A	PF-SPR-5040	84	60.33	52.5	25	24	48.26	40.89

*상기 사이즈 외에는 영업부 문의 바랍니다.

PIPE TEE ADAPTOR

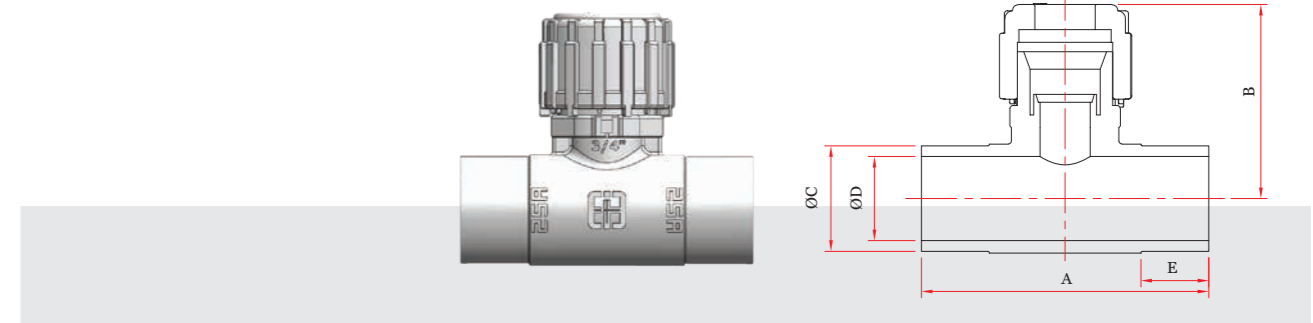


단위 : mm

SIZE	P/N	A	B	ØC	ØD	E
15AX1/4"X15A	PF-PTA-150415	120	42	21.34	15.8	38
15AX1/2"X15A	PF-PTA-150815	120	49.5	21.34	15.8	38
20AX1/4"X20A	PF-PTA-200420	120	45	26.67	20.93	38
20AX1/2"X20A	PF-PTA-200820	120	52.5	26.67	20.93	38
20AX3/4"X20A	PF-PTA-201220	120	58.5	26.67	20.93	38
20AX1"X20A	PF-PTA-201620	120	65.5	26.67	20.93	38
25AX1/4"X25A	PF-PTA-250425	124	48	33.4	26.64	38
25AX1/2"X25A	PF-PTA-250825	124	55.5	33.4	26.64	38
25AX3/4"X25A	PF-PTA-251225	124	61.5	33.4	26.64	38
25AX1"X25A	PF-PTA-251625	124	68.5	33.4	26.64	38
40AX1/4"X40A	PF-PTA-400440	149	55.5	48.26	40.86	38
40AX1/2"X40A	PF-PTA-400840	149	63	48.26	40.86	38
40AX3/4"X40A	PF-PTA-401240	149	69	48.26	40.86	38
40AX1"X40A	PF-PTA-401640	149	76	48.26	40.86	38
50AX1/4"X50A	PF-PTA-500450	166	61.5	60.33	52.5	38
50AX1/2"X50A	PF-PTA-500850	166	69	60.33	52.5	38
50AX3/4"X50A	PF-PTA-501250	166	75	60.33	52.5	38
50AX1"X50A	PF-PTA-501650	166	82	60.33	52.5	38
50AX1-1/2"X50A	PF-PTA-502450	166	94	60.33	52.5	38

* 상기 사이즈 외에는 영업부 문의 바랍니다.

SHORT PIPE TEE ADAPTOR

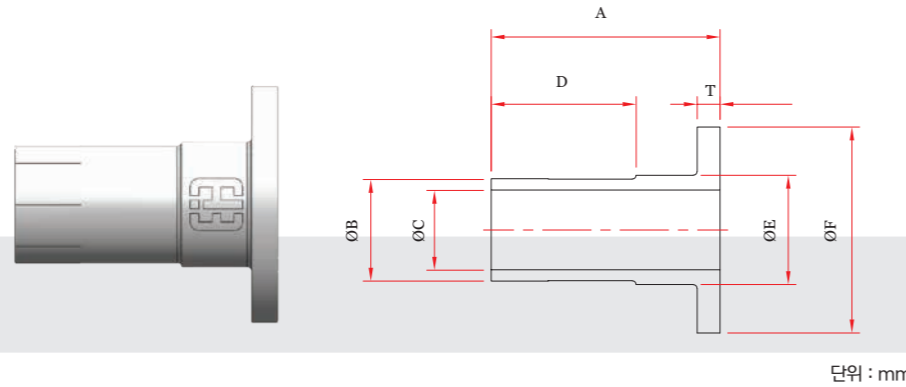


단위 : mm

SIZE	P/N	A	B	ØC	ØD	E
15AX1/4"X15A	PF-SPTA-150415	87	42	21.34	15.8	21.5
15AX1/2"X15A	PF-SPTA-150815	87	49.5	21.34	15.8	21.5
20AX1/4"X20A	PF-SPTA-200420	87	45	26.67	20.93	21.5
20AX1/2"X20A	PF-SPTA-200820	87	52.5	26.67	20.93	21.5
20AX3/4"X20A	PF-SPTA-201220	87	58.5	26.67	20.93	21.5
20AX1"X20A	PF-SPTA-201620	87	65.5	26.67	20.93	21.5
25AX1/4"X25A	PF-SPTA-250425	91	48	33.4	26.64	21.5
25AX1/2"X25A	PF-SPTA-250825	91	55.5	33.4	26.64	21.5
25AX3/4"X25A	PF-SPTA-251225	91	61.5	33.4	26.64	21.5
25AX1"X25A	PF-SPTA-251625	91	68.5	33.4	26.64	21.5
40AX1/4"X40A	PF-SPTA-400440	121	55.5	48.26	40.86	24
40AX1/2"X40A	PF-SPTA-400840	121	63	48.26	40.86	24
40AX3/4"X40A	PF-SPTA-401240	121	69	48.26	40.86	24
40AX1"X40A	PF-SPTA-401640	121	76	48.26	40.86	24
50AX1/4"X50A	PF-SPTA-500450	140.5	61.5	60.33	52.5	25
50AX1/2"X50A	PF-SPTA-500850	140.5	69	60.33	52.5	25
50AX3/4"X50A	PF-SPTA-501250	140.5	75	60.33	52.5	25
50AX1"X50A	PF-SPTA-501650	140.5	82	60.33	52.5	25
50AX1-1/2"X50A	PF-SPTA-502450	140.5	94	60.33	52.5	25

* 상기 사이즈 외에는 영업부 문의 바랍니다.

PIPE FLANGE ADAPTOR

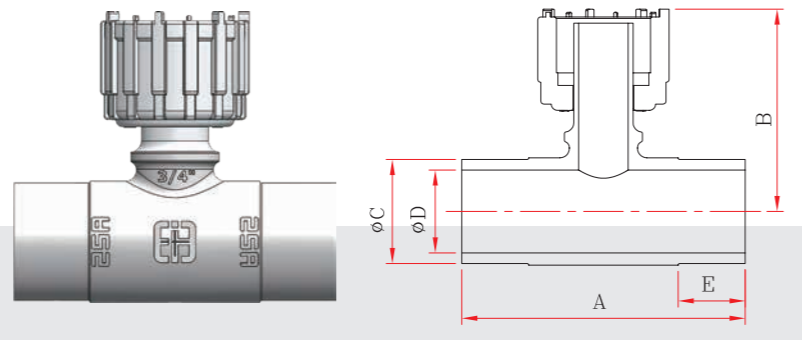


단위 : mm

SIZE	P/N	A	ØB	ØC	D	ØE	ØF	T
15A	PF-PFA-15J	60	21.34	15.80	38	23.34	49	6
20A	PF-PFA-20J	60	26.67	20.93	38	28.67	54	6
25A	PF-PFA-25J	60	33.4	26.64	38	35.4	64	6
40A	PF-PFA-40J	59	48.26	40.86	37.5	50.26	78	7
50A	PF-PFA-50J	59	60.33	52.50	37.5	61.5	88	7
1/2"	PF-PFA-15A	60	21.34	15.80	38	23.34	39	6
3/4"	PF-PFA-20A	60	26.67	20.93	38	28.67	49	6
1"	PF-PFA-25A	60	33.4	26.64	38	35.4	58	6
1-1/2"	PF-PFA-40A	59	48.26	40.86	37.5	50.26	78	7
2"	PF-PFA-50A	59	60.33	52.50	37.5	61.5	88	7

* 상기 사이즈 외에는 영업부 문의 바랍니다.

SHORT PIPE TEE ADAPTOR SAVER

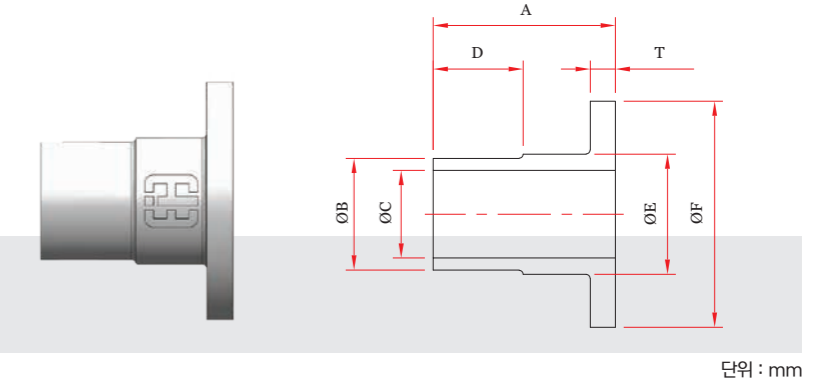


단위 : mm

SIZE	P/N	A	B	ØC	ØD	E
25AX1/2"(S)X25A	PF-SPTAS-2508S25	91	58.5	33.4	26.64	21.5
25AX3/4"(S)X25A	PF-SPTAS-2512S25	91	65	33.4	26.64	21.5
25AX1"(S)X25A	PF-SPTAS-2516S25	91	70.5	33.4	26.64	21.5

* 상기 사이즈 외에는 영업부 문의 바랍니다.

SHORT PIPE FLANGE ADAPTOR

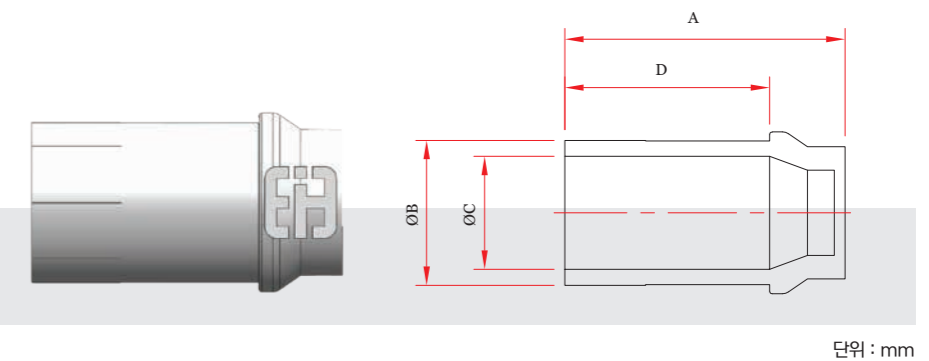


단위 : mm

SIZE	P/N	A	ØB	ØC	D	ØE	ØF	T
15A	PF-SPFA-15J	43.5	21.34	15.8	21.5	23.34	49	6
20A	PF-SPFA-20J	43.5	26.67	20.93	21.5	28.67	54	6
25A	PF-SPFA-25J	43.5	33.4	26.64	21.5	35.4	64	6
40A	PF-SPFA-40J	46	48.26	40.86	24	50.26	78	7
50A	PF-SPFA-50J	47	60.33	52.5	25	61.5	88	7
1/2"	PF-SPFA-15A	43.5	21.34	15.8	21.5	23.34	39	6
3/4"	PF-SPFA-20A	43.5	26.67	20.93	21.5	28.67	49	6
1"	PF-SPFA-25A	43.5	33.4	26.64	21.5	35.4	58	6
1-1/2"	PF-SPFA-40A	46	48.26	40.86	24	50.26	78	7
2"	PF-SPFA-50A	47	60.33	52.5	25	61.5	88	7

* 상기 사이즈 외에는 영업부 문의 바랍니다.

PIPE END CAP



단위 : mm

SIZE	P/N	A	ØB	ØC	D
20A	PF-PCAP-20	52	26.67	20.93	38
25A	PF-PCAP-25	52	33.4	26.64	38
40A	PF-PCAP-40	64	48.26	40.86	38
50A	PF-PCAP-50	73	60.33	52.5	38

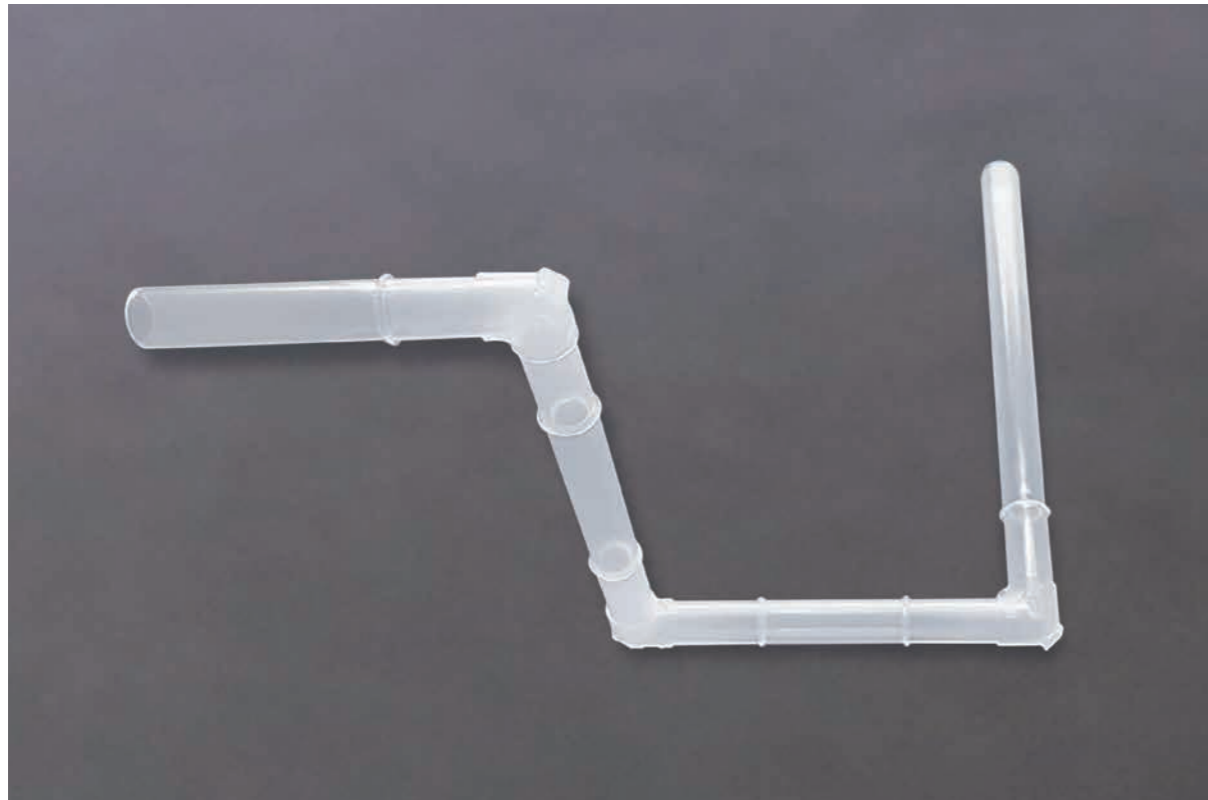
* 상기 사이즈 외에는 영업부 문의 바랍니다.

PFA WELD FITTING (용착피팅)

Tube Weld Type

PIPE FITTING에 사용되는 면대 면의 맞대기 용착 방식(Butt Welding)을 TUBE에 적용한 제품으로, 기존 TUBE FITTING 체결방식인 FLARE TYPE, FERRULE TYPE의 단점을 보완할 수 있다.

The welded tube fittings are constructed from butt-welding the inch tubes together, similar to pipe fittings. The design adds additional value compared to flare and ferrule-type fittings.



FEATURES

- 1. 용착 부위가 협소하므로, 공간 절약 및 좁은 공간에 간결한 배관 구성.
 - 2. 너트 풀림이 없으므로 누액(Leak) 및 누수로부터 안전.
 - 3. 확관피팅과 튜브 없이 체결가능(Saver 방식, 해당 확관피팅 用 Nut 필요)
- 1. Due to the reduced fusion width, additional space can be generated for precise weld configuration within a small space.
 - 2. No nuts to be loosened, preventing potential leakage.
 - 3. Connection possible without flaring tubes and fittings(Saver method requires a nut for flaring)

TECHNICAL DATA

단위 : Mpa

Tube Size	0°C	200°C
1/4"	1.5	0.72
3/8"	1.3	0.63
1/2"	1.0	0.50
3/4"	0.7	0.32
1"	0.6	0.25
1-1/4"	0.5	0.1
1-1/2"	0.5	0.1

최고사용압력
▶ 적용튜브 : 1/4" ~ 1"
▶ 사용온도 : -5°C~200°C
▶ 사용압력 : 좌측 도표 참조
▶ 재 질 : 반도체 Grade PFA 사용 (Daikin AP-211SH)

ORDERING INFORMATION

1. Product Name	CODE
PFA WELD FITTING	WF

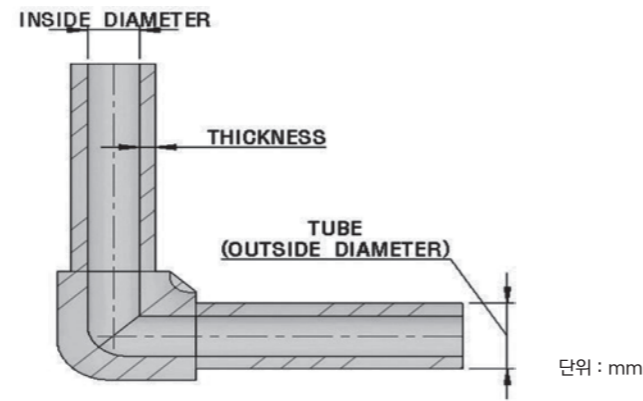
EXAMPLE

WT-WRT-060406
 WF : WELD FITTING
 WT : WELD TEE
 060406 : 3/8" x 1/4" x 3/8"

2. Code_Shape	
WT	WELD TEE
WRT	WELD RED TEE
WR	WELD REDUCER
WE	WELD ELBOW
WRE	WELD RED ELBOW
WCT	WELD CROSS TEE

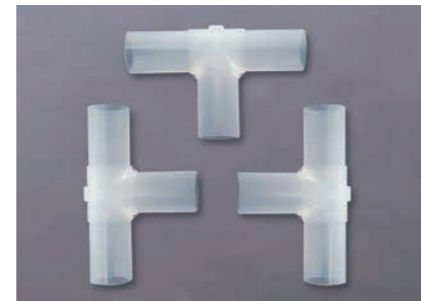
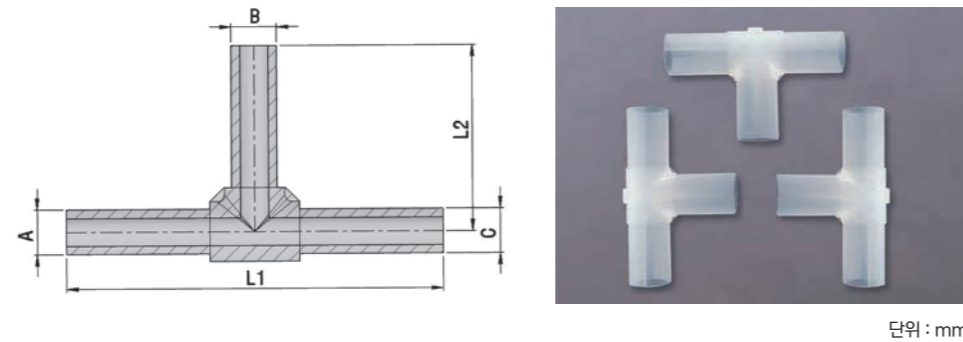
3. Code_Size	
04	1/4"
06	3/8"
08	1/2"
12	3/4"
16	1"
20	1-1/4"
24	1-1/2"

TUBE CONNECTION DIMENSIONS



Tube Size	Outside Diameter	Inside Diameter	Thickness
1/4"	6.35	3.97	1.2
3/8"	9.53	6.39	1.6
1/2"	12.70	9.56	1.6
3/4"	19.05	15.91	1.6
1"	25.40	22.26	1.6
1-1/4"	31.80	28.00	1.8
1-1/2"	38.10	33.74	2.18

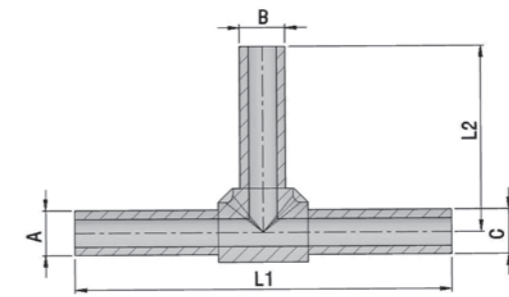
TEE



단위 : mm

PART No.	TUBE			LENGTH	
	A	B	C	L1	L2
WF-WT-04	1/4"	1/4"	1/4"	52	26.0
WF-WT-06	3/8"	3/8"	3/8"	73	36.5
WF-WT-08	1/2"	1/2"	1/2"	79	-
WF-WT-12	3/4"	3/4"	3/4"	99	49.5
WF-WT-16	1"	1"	1"	107	53.5
WF-WT-20	1-1/4"	1-1/4"	1-1/4"	145	74.5
WF-WT-24	1-1/2"	1-1/2"	1-1/2"	184	92.0

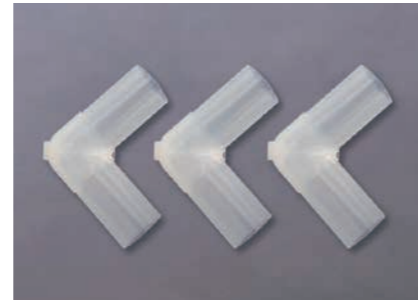
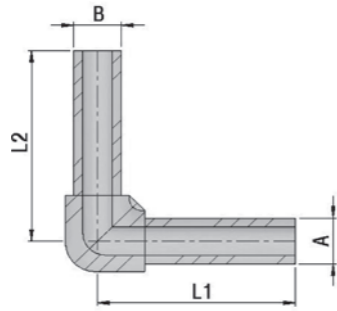
RED TEE



단위 : mm

PART No.	TUBE			LENGTH	
	A	B	C	L1	L2
WF-WRT-060406	3/8"	1/4"	3/8"	73	36.5
WF-WRT-080408	1/2"	1/4"	1/2"	79	30.5
WF-WRT-080608	1/2"	3/8"	1/2"	79	39.5
WF-WRT-120412	3/4"	1/4"	3/4"	99	35.0
WF-WRT-120612	3/4"	3/8"	3/4"	99	49.0
WF-WRT-120812	3/4"	1/2"	3/4"	99	39.5
WF-WRT-160416	1"	1/4"	1"	107	37.5
WF-WRT-160616	1"	3/8"	1"	108	47.0
WF-WRT-160816	1"	1/2"	1"	107	41.5
WF-WRT-161216	1"	3/4"	1"	107	46.5
WF-WRT-201220	1-1/4"	3/4"	1-1/4"	149	55.5
WF-WRT-201620	1-1/4"	1"	1-1/4"	151	58.0
WF-WRT-241224	1-1/2"	3/4"	1-1/2"	184	72.5
WF-WRT-241624	1-1/2"	1"	1-1/2"	184	65.0
WF-WRT-242024	1-1/2"	1-1/4"	1-1/2"	184	82.0

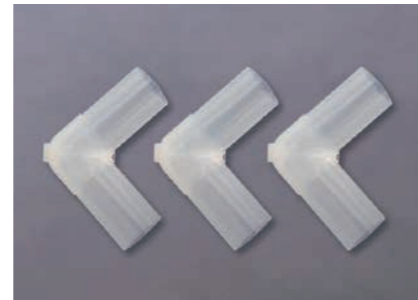
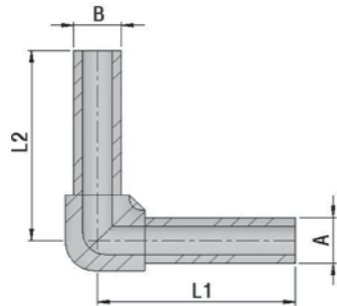
ELBOW



단위 : mm

PART No.	TUBE		LENGTH	
	A	B	L1	L2
WF-WE-04	1/4"	1/4"	26.0	26.0
WF-WE-06	3/8"	3/8"	36.5	36.5
WF-WE-08	1/2"	1/2"	39.5	39.5
WF-WE-12	3/4"	3/4"	44.5	44.5
WF-WE-16	1"	1"	53.5	53.5
WF-WE-20	1-1/4"	1-1/4"	74.5	74.5
WF-WE-24	1-1/2"	1-1/2"	92.0	92.0

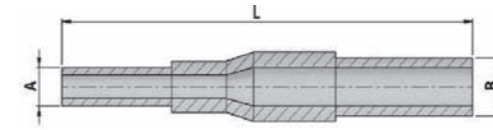
RED ELBOW



단위 : mm

PART No.	TUBE		LENGTH	
	A	B	L1	L2
WF-WRE-0604	3/8"	1/4"	27.5	37.0
WF-WRE-0804	1/2"	1/4"	29.5	39.5
WF-WRE-0806	1/2"	3/8"	39.5	39.5
WF-WRE-1204	3/4"	1/4"	35.5	44.5
WF-WRE-1208	3/4"	1/2"	44.0	39.0
WF-WRE-1604	1"	1/4"	38.0	52.5
WF-WRE-1606	1"	3/8"	48.0	52.5
WF-WRE-1608	1"	1/2"	53.5	39.0
WF-WRE-1612	1"	3/4"	53.0	46.5
WF-WRE-2412	1-1/2"	3/4"	65.5	92.0
WF-WRE-2416	1-1/2"	1"	73.0	92.0
WF-WRE-2420	1-1/2"	1-1/4"	82.5	92.0

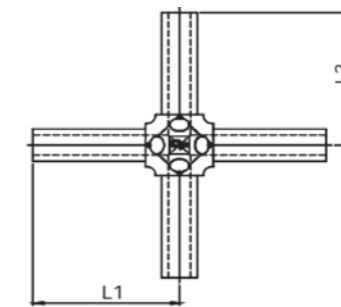
REDUCER



단위 : mm

PART No.	TUBE		LENGTH
	A	B	L
WF-WR-0604	3/8"	1/4"	75.0
WF-WR-0804	1/2"	1/4"	75.0
WF-WR-0806	1/2"	3/8"	78.5
WF-WR-1204	3/4"	1/4"	75.5
WF-WR-1206	3/4"	3/8"	78.5
WF-WR-1208	3/4"	1/2"	84.5
WF-WR-1604	1"	1/4"	85.0
WF-WR-1606	1"	3/8"	88.0
WF-WR-1608	1"	1/2"	91.5
WF-WR-1612	1"	3/4"	97.0
WF-WR-2012	1-1/4"	3/4"	124.5
WF-WR-2016	1-1/4"	1"	135.5
WF-WR-2412	1-1/2"	3/4"	137.5
WF-WR-2416	1-1/2"	1"	149.0
WF-WR-2420	1-1/2"	1-1/4"	155.0

CROSS TEE



단위 : mm

PART No.	TUBE		LENGTH	
	A	B	L1	L2
WF-CT-0404	1/4"	1/4"	26.0	26.0

PFA Pressure Vessel

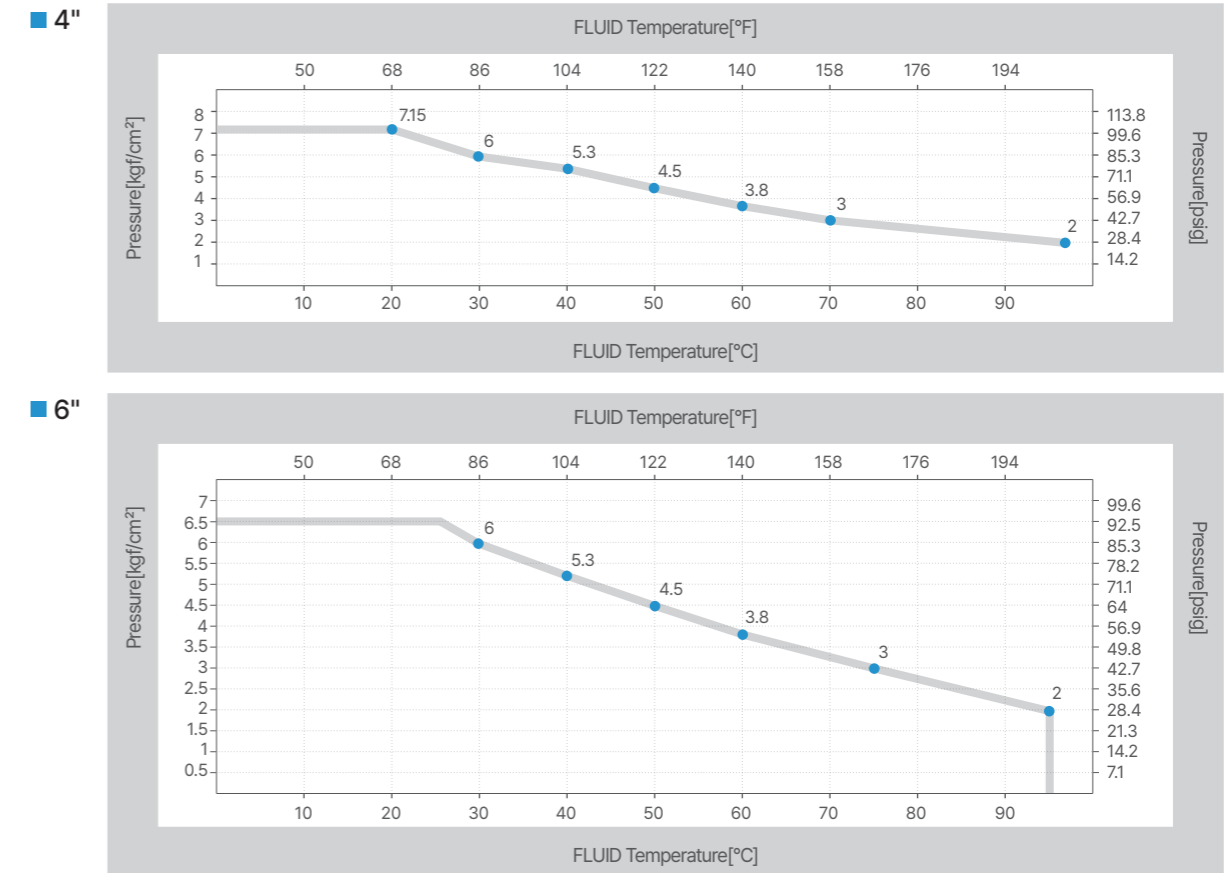
정밀화학용 Chemical 및 반도체 또는 LCD 공정에 사용되는 초 고순도 Chemical을 담기에 적합한 제품
 A product suitable for containing chemicals for fine chemicals and ultra-high purity chemicals used in semiconductor or LCD processes



제품 사양 SPECIFICATIONS

PRODUCT SIZE	4"	6"
Material	High Purity Grade PFA	High Purity Grade PFA
BODY Size (O.D)	Ø107.2	Ø168.1
BODY Thickness	7mm	9.3mm
CAP Option	1Port or 2Port	1Port or 2Port or 3Port
Operating Pressure	5 kgf/cm ²	5 kgf/cm ²
Operating Temperature	0 ~ 90°C	0 ~ 90°C
Product Capacity	1~10ℓ	1.5~25ℓ
Product Number	맞춤형 제품으로 별도문의 (Individual inquiry for customized products)	

사용온도 - 압력 그래프 OPERATING TEMPERATURE - PRESSURE GRAPH



제품 구성 및 사이즈 CONFIGURATION

4" CAP			6" CAP		
PORT	CAP	PRODUCT	PORT	CAP	PRODUCT
1PORT	20A		1PORT	20A or 25A	
	20A 20A		2PORT	20A 20A or 25A	
2PORT	20A 20A	3PORT	20A 20A or 25A 20A		

PFA Storage Vessel[A-Type]

Chemical 공급장비 내에 Drain 저장용기로 사용. (Aspirator를 장착하여 DIW 압력으로 약액을 강제 배출)

- 1) 장비 내에 Drain 약액이 많을 때 완충 역할
- 2) 필터 교체 또는 Drain시 역류 방지
- 3) 장비 Fail시 외부 Drain에 대한 안전장치 역할

Used as a drain storage container in chemical supply equipment. (Aspirator is installed to forcibly discharge the chemical by DIW pressure)

- 1) Buffer role when there is a lot of drain chemical in the equipment
- 2) Prevent backflow when replacing filter or draining
- 3) Acts as a safety device for external drain in case of equipment failure



제품 사양 SPECIFICATIONS

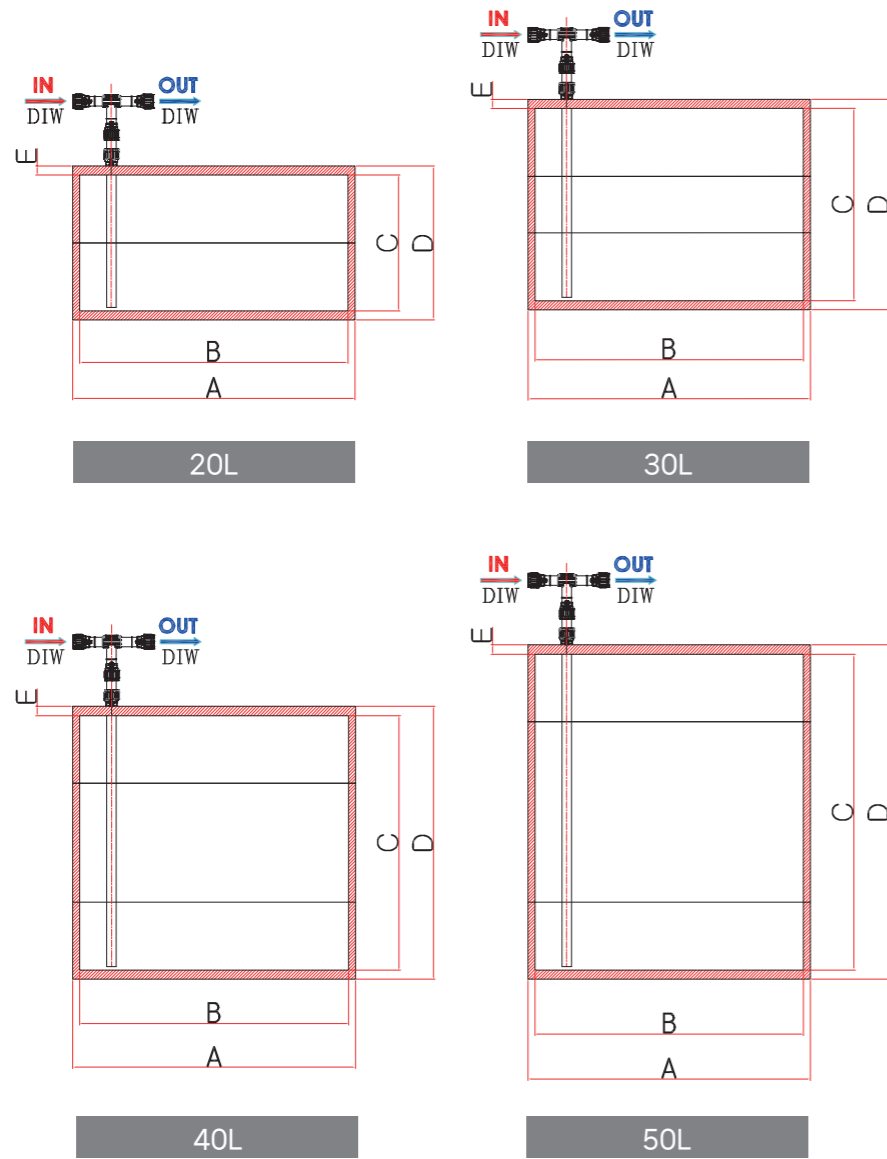
Material	High Purity Grade PFA
Operating Pressure	0.1kgf/cm ²
Operating Temperature	0~90°C
Product Capacity	20~120ℓ
	추가 용량은 별도 문의 바랍니다. (Individual inquiry for additional capacity)

제품 구성 CONFIGURATION

	Ø400 PFA STORAGE VESEEL (A TYPE)		Ø550 PFA STORAGE VESEEL (A TYPE)	
	BODY	PRODUCT	BODY	PRODUCT
TOP BODY				
MIDDLE BODY				
BOTTOM BODY				

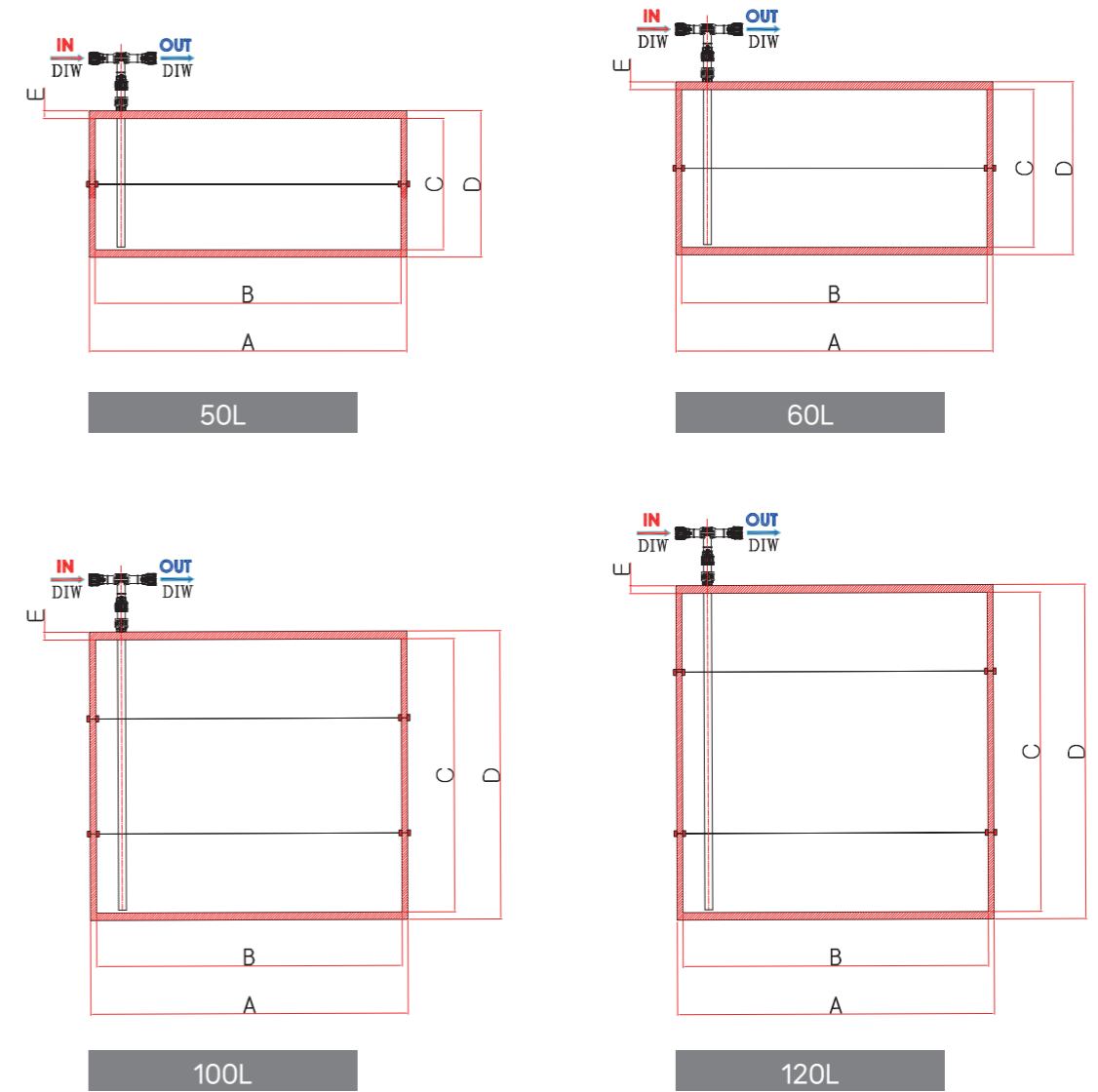
제품 치수 DIMENSION TABLE

■ Ø400 PFA STORAGE VESEEL (A TYPE)
 - ASPIRATOR 강제 배출용(For forced discharge of Aspirator)



Product Capacity	A(Ø)	B(Ø)	C	D	E	Fitting Position
20L	400	380	192	218	13	Customizing
30L	400	380	272	298	13	Customizing
40L	400	380	360	386	13	Customizing
50L	400	380	447	473	13	Customizing

■ Ø550 PFA STORAGE VESEEL (A TYPE)
 - ASPIRATOR 강제 배출용(For forced discharge of Aspirator)



Product Capacity	A(Ø)	B(Ø)	C	D	E	Fitting Position
50L	550	530	228	254	13	Customizing
60L	550	530	274	300	13	Customizing
100L	550	530	474	500	13	Customizing
120L	550	530	554	580	13	Customizing

PFA Storage Vessel[B-Type]

초 고순도 Chemical 저장 용기 (자연드레인 가능한 디자인 적용)
 Ultra high-purity chemical storage container (applied design that can drain naturally)



제품 사양 SPECIFICATIONS

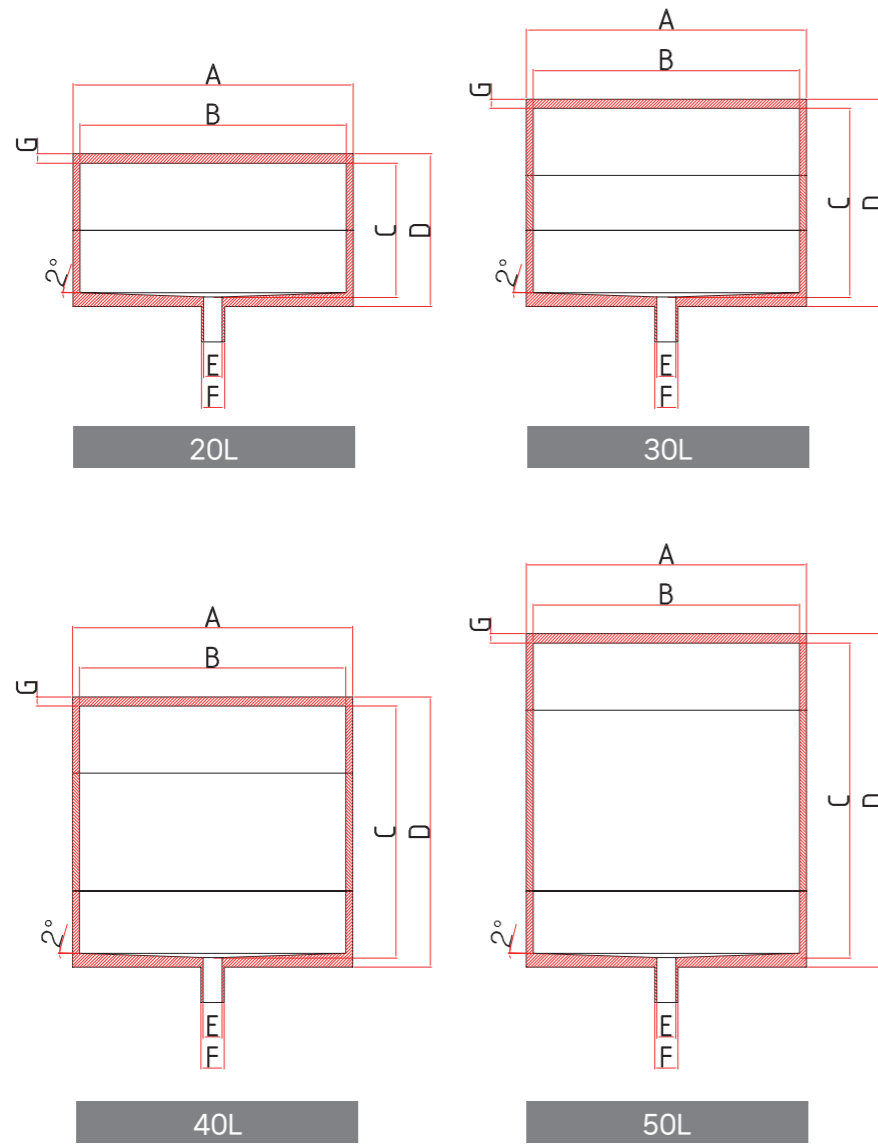
Material	High Purity Grade PFA
Operating Pressure	0.1kgf/cm ²
Operating Temperature	0~90°C
Product Capacity	20~120ℓ
	추가 용량은 별도 문의 바랍니다. (Individual inquiry for additional capacity)

제품 구성 CONFIGURATION

	Ø400 PFA STORAGE VESEEL (B TYPE)		Ø550 PFA STORAGE VESEEL (B TYPE)	
	BODY	PRODUCT	BODY	PRODUCT
TOP BODY				
MIDDLE BODY				
BOTTOM BODY				

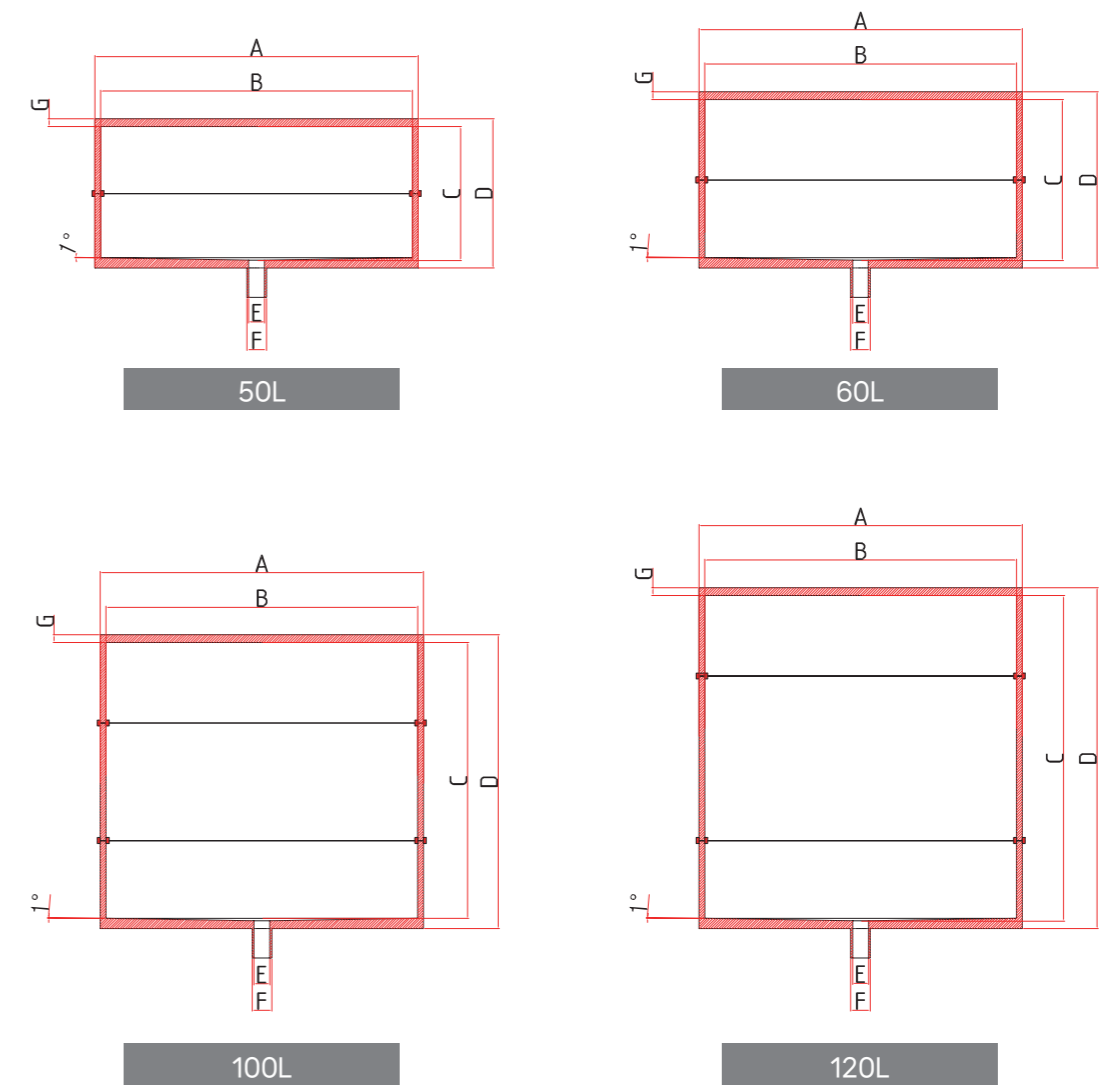
제품 치수 DIMENSION TABLE

■ Ø400 PFA STORAGE VESEEL (B TYPE)
- 자연 드레인용(for natural drain)



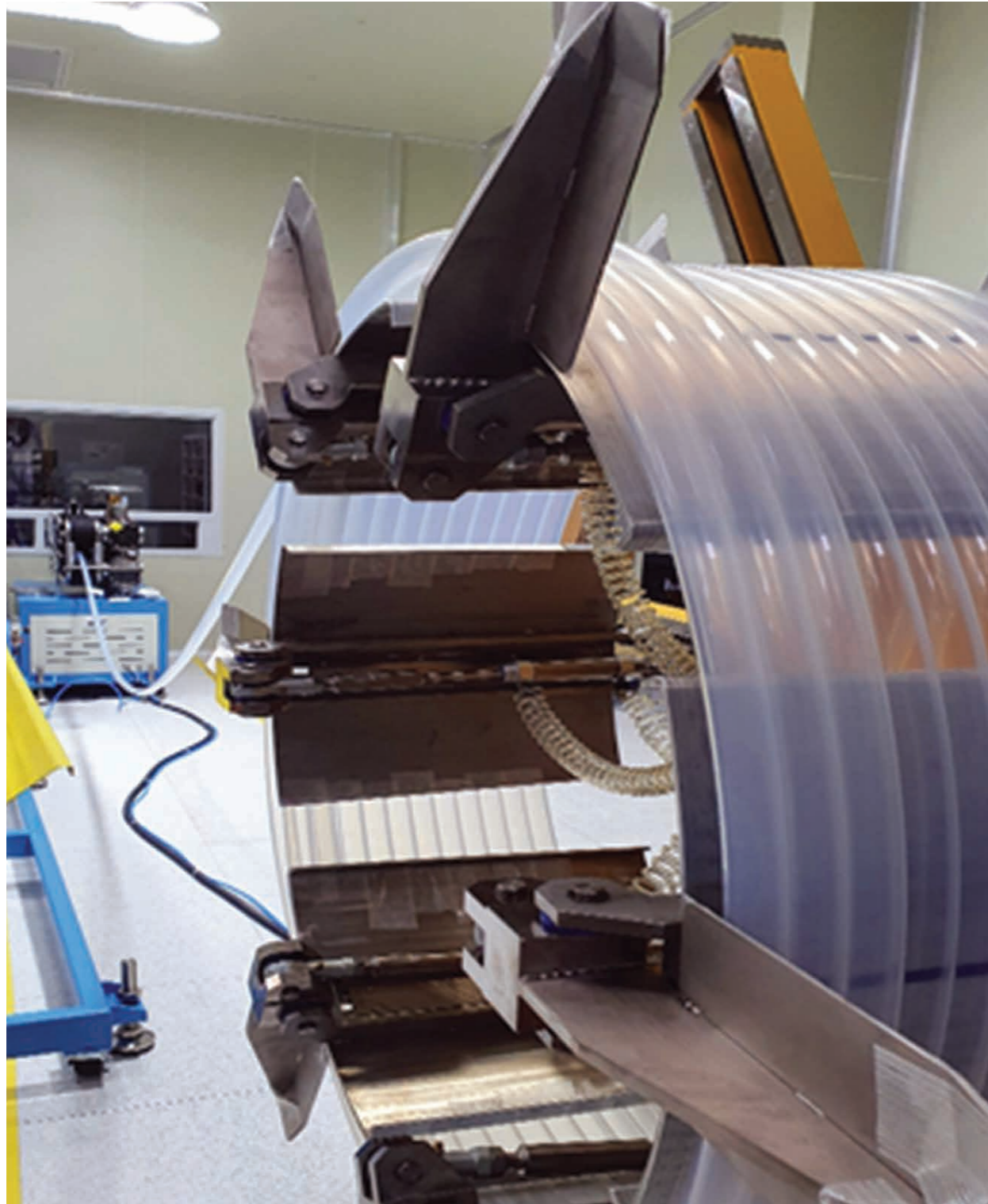
Product Capacity	A(Ø)	B(Ø)	C	D	E(Ø)	F(Ø)	G	Bottom Nozzle Size	Fitting Position
20L	400	380	192	218	26.64	33.4	13	25Ax1/4" ~ 25Ax1"	Customizing
30L	400	380	272	298	26.64	33.4	13	25Ax1/4" ~ 25Ax1"	Customizing
40L	400	380	360	386	26.64	33.4	13	25Ax1/4" ~ 25Ax1"	Customizing
50L	400	447	447	473	26.64	33.4	13	25Ax1/4" ~ 25Ax1"	Customizing

■ Ø550 PFA STORAGE VESEEL (B TYPE)
- 자연 드레인용(for natural drain)



Product Capacity	A(Ø)	B(Ø)	C	D	E(Ø)	F(Ø)	G	Bottom Nozzle Size	Fitting Position
50L	550	530	228	254	26.64	33.4	13	25Ax1/4" ~ 25Ax1"	Customizing
60L	550	530	274	300	26.64	33.4	13	25Ax1/4" ~ 25Ax1"	Customizing
100L	550	530	474	500	26.64	33.4	13	25Ax1/4" ~ 25Ax1"	Customizing
120L	550	530	554	580	26.64	33.4	13	25Ax1/4" ~ 25Ax1"	Customizing

PFA Ultrapure TUBE & PIPE



TECHNICAL SPECIFICATIONS

1. PFA Tube Size

1/4", 3/8", 1/2", 3/4", 1", 1-1/4", 1-1/2", 2"

2. PFA Pipe Size

15A, 20A, 25A, 40A, 50A

3. Operating Specification

	Operating Temperature	Maximum Operating Pressure
Tube	0~90°C	9kg/cm ² (0.9Mpa)
	90~150°C	7kg/cm ² (0.7Mpa)
	Over 150°C	Below 5kg/cm ² (0.5Mpa)
Pipe	0~150°C	12kg/cm ² (1.2Mpa)

4. Connection Type

Tube : Tube Flaring & Ferrule Type

Pipe : Fusible type

MAJOR FUNCTIONS AND FEATURES

가. 고순도 약품에 적용키 위한 압출설비의 구성으로 제품을 생산 합니다.
 나. 다양한 고순도 불소수지(High Purity Grade PFA) 의 적용이 가능합니다.
 다. 고객의 요구치수를 만족하는 성능의 제품을 생산하여 공급합니다.

- 1) 배관 규격의 호환성
- 2) 각종 규격의 피팅과 호환성
- 3) 고객의 요구치수 선택

A. Manufactured with the latest extrusion equipment and can support various high purity chemicals.

B. Many high-purity fluoropolymer resins (High Purity Grade PFA) are offered.

C. Produce and supply high-performance products that meet customer's requirements.

- 1) Compatible to piping standards
- 2) Compatible to various fitting standards
- 3) Product customization possible based on customer's requests

1. PFA materials offered

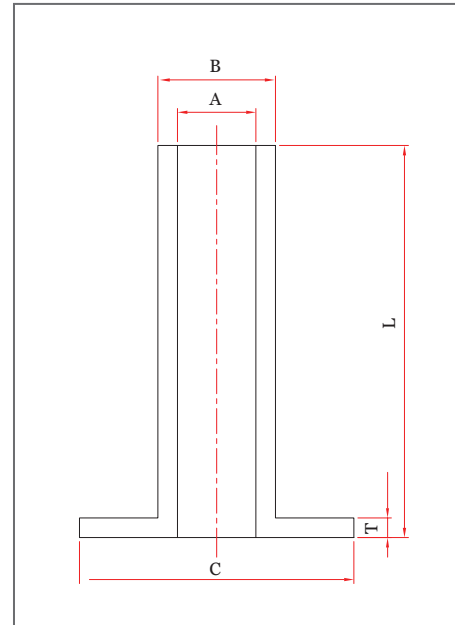
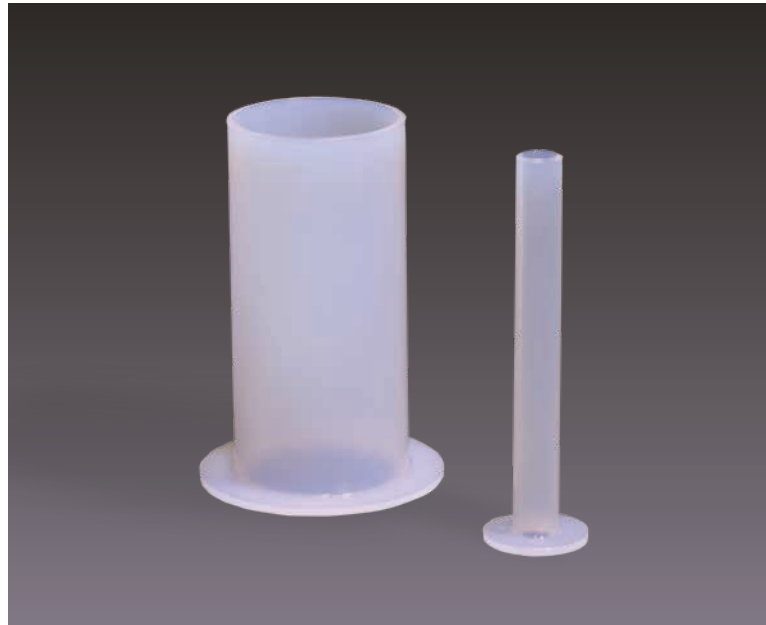
Daikin : AP 230, AP-231SH

Chemours : 450HP, 451HP, 951HP

3M : 6502T, 6502UHP

Other PFA Materials

PFA NOZZLE



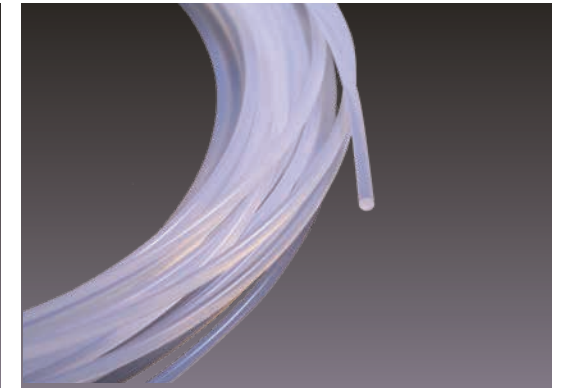
단위 : mm

SIZE	P/N	A(∅)	B(∅)	C(∅)	L	T
20A X 20A	NZ-2020-180	15	20.9	48	180	4.0
20A X 25A	NZ-2025-180	20.5	26.5	54	180	4.0
25A X 25A	NZ-2525-180	20.5	26.5	66	180	4.0
25A X 32A	NZ-2532-180	28.5	34.8	65	180	4.0
32A X 32A	NZ-3232-180	28.5	34.8	76.2	180	4.0
40A X 40A	NZ-4040-180	34.7	40.2	79.5	180	4.5
40A X 50A	NZ-4050-180	46	51.5	80	180	4.5
50A X 50A	NZ-5050-180	46	51.5	95.7	180	4.5
50A X 65A	NZ-5065-180	58.5	64.5	95	180	4.5
65A X 65A	NZ-6565-180	58.5	64.5	115	180	4.5
65A X 80A	NZ-6580-180	70	76.5	115	187	4.5
80A X 80A	NZ-8080-180	70	76.5	124	187	4.5
80A X 90A	NZ-8090-180	80	89	124	187	4.5
80A X 100A	NZ-80100-180	93.3	101.3	124	187	4.5
100A X 100A	NZ-100100-180	93.3	101.3	150	187	4.5
15A X 3/4"	NZ-1520-200-A	14	20	48	200	4.0
20A X 1"	NZ-2025-200-A	20	26	54	200	4.0
25A X 1-1/4"	NZ-2532-200-A	26.5	34	65	200	4.0
40A X 2"	NZ-4050-200-A	44	51.5	80	200	4.0
50A X 2-1/2"	NZ-5065-200-A	54	61.5	95	200	4.0

※ 상기 사이즈 외에는 영업부 문의 바랍니다.

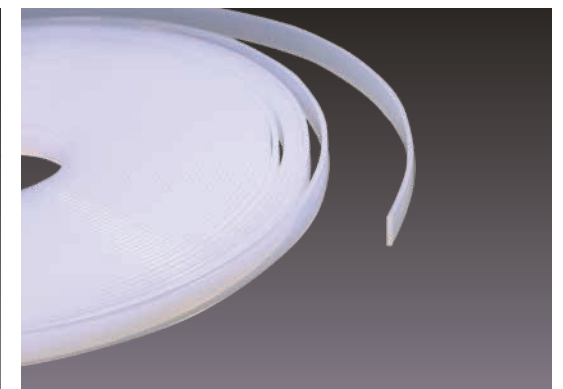
PFA ROD & BAND

ROD



Application standard		PFA Welding Rod		
Size		3∅	4∅	5∅
Outer diameter	mm	3.0	4.0	5.0
Outer diameter tolerance	mm +/-	0.3	0.3	0.3
Thickness	mm	3.0	4.0	5.0
Thickness tolerance	mm +/-	0.3	0.3	0.3
Standard length	M	100	100	100

BAND



Application standard		PFA Welding Band	
Size		14	14.7
Outer diameter	mm	14	14.7
Outer diameter tolerance	mm +/-	0.3	0.3
Thickness	mm	2.4	2.7
Thickness tolerance	mm +/-	0.2	0.2
Standard length	M	50	50