

▶ **납품 실적 / Customer List**



2011		PROJECT	
Hyunix 반도체(주) Hyunix Semiconductors	이천 M10 Hook-Up (A1-Joint Coating 배관공사) Icheon M10 Hook-Up (A1-Joint Coating pipe laying)		
LG 디스플레이(주) LG Display	파주 ASSET In-Let V/V Paju ASSET In-Let V/V		
삼성전자(주) 아산공장 Asan Tangeong Plant, Samsung Electronics	IN-LET V/V 납품 IN-LET V/V delivered		
매그나칩 반도체(주) MagnaChip Semiconductors	A1-Joint Coating 배관공사 A1-Joint Coating pipe laying construction		

2010		PROJECT	
Hyunix 반도체(주) Hyunix Semiconductors	- 경주 M8, M9, M11 Hook-Up (A1-Joint Coating 배관공사) - 이천 M10 Hook-Up (A1-Joint Coating 배관공사) - Cheongju M8, M9, M11 Hook-Up (A1-Joint Coating pipe laying construction) - Icheon M10 Hook-Up (A1-Joint Coating pipe laying construction)		
LG 디스플레이(주) LG Display	구미 P6, P8 H-Vacuum In-Let V/V Gumi P6, P8 H-Vacuum In-Let V/V		
매그나칩 반도체(주) MagnaChip Semiconductors	IF-5, SR-1 Hook-Up (A1-Joint Coating 배관공사) IF-5, SR-1 Hook-Up (A1-Joint Coating pipe laying)		

2009 이전 Up to 2009		PROJECT	
Hyunix 반도체(주) Hyunix Semiconductors	- 경주 M8, M9, M11 Hook-Up (A1-Joint Coating 배관공사) - 이천 M10 Hook-Up (A1-Joint Coating 배관공사) - Cheongju M8, M9, M11 Hook-Up (A1-Joint Coating pipe laying) - Icheon M10 Hook-Up (A1-Joint Coating pipe laying)		
매그나칩 반도체(주) MagnaChip Semiconductors	F-5, SR-1 Hook-Up (A1-Joint Coating 배관공사) F-5, SR-1 Hook-Up (A1-Joint Coating pipe laying)		
LG 디스플레이(주) LG Display	구미 P6, P8 H-Vacuum In-Let V/V Gumi P6, P8 H-Vacuum In-Let V/V		
매그나칩 반도체(주) MagnaChip Semiconductors	A1-Joint Coating 배관공사 A1-Joint Coating pipe laying		
넥솔론 Nexolon	익산공장 증축공사 H-Vacuum In-Let V/V Iksan plant expansion H-Vacuum In-Let V/V		
웅진 코웨이 Woongjin Coway	대전 공장 H-Vacuum In-Let V/V Daejeon plant H-Vacuum In-Let V/V		
삼성전자(주) Samsung Electronics	탕정지구 T8-Project Hook-Up 배관공사 Tangeong Area T8-Project Hook-Up pipe laying		

세인엔지니어링(주)
SEIN ENGINEERING CO., LTD

본사 & 공장: 충북 청원군 김위면 오송리 246-19
Tel 043-213-2546 / Fax 043-213-9118

Manufact. Factory: 246-19 Osong-ri, Gangoe-myeon, Cheongwon-gun, Chungbuk, Korea
Tel +82-43-213-2546 / Fax +82-43-213-9118

www.seineng.co.kr



KS A 9001 : 2001

ISO 9001 : 2000

Best Technology of LCD & Semiconductor

ASSEMBLY JOINT

Assemble Joint Product Introduction



세인엔지니어링(주)
SEIN ENGINEERING CO., LTD

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회사소개 / Corporation Profile

- 회사명 세인엔지니어링(주)
- 설립년도 1997년
- 대표이사 최종식
- 사업자등록번호 315-91-31694
- 업태 건설업, 제조, 도매
- 종국 반도체장비, 설비공사, 플랜트공사
- 본사 및 공장 충북 청원군 경의면 오산리 246-19
- 대표전화 Tel 043-213-2546 / Fax 043-213-9118

- Company Name : SEIN ENGINEERING CO.,LTD
- Establishment : 1997
- Name of Representative : Jong Seok Choi
- Business Registration Number : 315-91-31694
- Business Kind : Construction, Manufacturing, Wholesale
- Type of Business : Semiconductor Equipment, Facilities, Plant Construction
- Main Office & Plant : 246-19 Osong-ri, Gangoe-myeon, Cheongwon-gun, Chungbuk, Korea
- Main telephone : Tel +82-43-213-2546 / Fax +82-43-213-9118

회사연혁 / Company history

1995	세인엔지니어링 설립 / 충북 청원군 옥산면 오산리 247-1번지	SEIN Engineering established (247-1 Osan-ri, Oksan-myeon, Cheongwon-gun, Chungcheongbuk-do, Korea)
1997	사업장 이전 충북 청주시 흥덕구 복대동 1417-7번지	Place of business relocation (1417-7 Bokdae-dong, Heungdeok-gu, Cheongju-si, Chungcheongbuk-do, Korea)
1999	제조업 사업 확대 - 반도체 장비 제조업 - 크린룸 패널 제작 설치업 - 탱크 제작 및 설치업 - 상하수도 정비 공사업	Manufacturing business expansion - Semiconductor equipment manufacturing - Tank manufacturing & installation - Water and sewage facility construction
2003	사옥 준공식 및 사업장 이전	Building completion and place of business relocation
2005	Assemble Joint 생산공장 증축	Assemble Joint production plant enlargement
2007	KS A 9001 : 2001 / ISO 9001 : 2000 인증 획득	KS A 9001 : 2001 / ISO 9001 : 2000 Certification acquired
2009	본사 확장 이전(오송)	Main office expansion relocation (Osong)
2010	산학연협력 기업부설연구소 설립	Enterprise-Academy Cooperative Annex R&D Center established



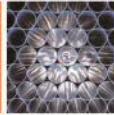
제품 / Product



인증서 / Certificates



Introduction

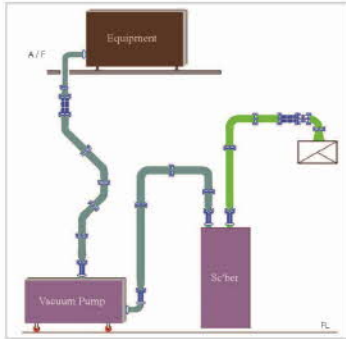


회사소개 / Information

세인엔지니어링은 1997년 반도체 설비공사 전문업체로 법인 설립 되었습니다. Clean Room Utility 공사를 주종으로 하여 UHP Chemical, UHP Gas, PCW 등 많은 Project를 성공적으로 수행하였습니다. 반도체, TFT-LCD, BIO, 첨단산업의 인프라 구축에 많은 참여와 연구를 기반으로 공사에 필요한 부속품을 기존 제품과 차별화하여 생산하고 있습니다.

SEIN Engineering Co., LTD was incorporated in 1997 as a semiconductor facility specializing company. Main business type consisted of Clean Room Utility construction and we successfully executed various projects like UHP Chemical, UHP Gas and PCW. Based on participation and research of semiconductors, TFT-LCD, BIO, infrastructure construction of high-tech industries, components distinguishable from existing products, but essential to construction are being produced.

적용범위 / Application scope



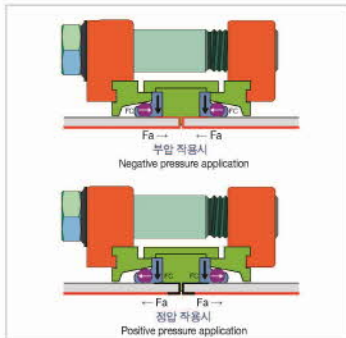
■ 非 코팅용 / Un-coated

- ① 진공 LINE
- ② 배기 LINE은 제살집이식 Clamp, A1-Joint 적용
- ① Vacuum Line
- ② Pipe Line uses Autogenous Folding Clamps and A1-Joints

■ 코팅용 / Coated

- ③ 부식 LINE은 같은 제품에 불소수지 코팅하여, 제살집이식 Clamp, A1-Joint 적용
- ③ Corrosion Line consists of the same products, but with fluorocarbon resin coating and uses Autogenous Folding Clamps and A1-Joints

구조적 원리 / Fundamental Structure



■ 초기체결 / Initial coupling

- 체결 시에 압축 링은 패킹과 내재된 압축하여 기밀과 이탈을 방지하게 됨
- Compression ring is compressed with the embedded stainless steel ball during coupling for air tightness and prevention of breakaway,

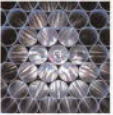
■ 부압작용 시 / During negative pressure application

- 1차적 밀림현상은 전개되고, 내재된 스텔 볼 및 질량관 Fc방향으로 패킹을 더욱 압박하여 강력한 진공효과를 얻을 수 있게 됨
- Primary suction pressure is transferred to the embedded stainless steel ball and intersection is further compressed on to the packing in Fc direction to achieve stronger vacuum effect,

■ 정압작용 시 / During positive pressure application

- 배관 내 압력 상승에 의해 관은 Fa 방향으로 벌어지게 되고, 패킹에 내재된 스텔 볼은 관과 압축링의 경사부에 박히는 췌기구조로 되어, 해진수축 경사부에 스텔볼이 더욱 더 박혀 체결력을 얻을 수 있게 됨
- Due to increased pressure, inner piping will fall in the Fa direction and the stainless steel ball embedded in packing and compression ring tends to have a wedge structure which will gain stronger coupling force as the stainless steel ball gets further jammed into the incision region,

Introduction



특징 및 효과 / Characteristics and Effects



3대 특징 / 3 Characteristics

- 1) 무 용 접 : 회기작업 / 용접기 / Purge Line 不必要
- 2) 무 가 공 : Cutter의 不必要
- 3) 조립식공법 : Spool 제작 / 가조립 不必要 고능력 기능공 不必要-배관사, 용접사)

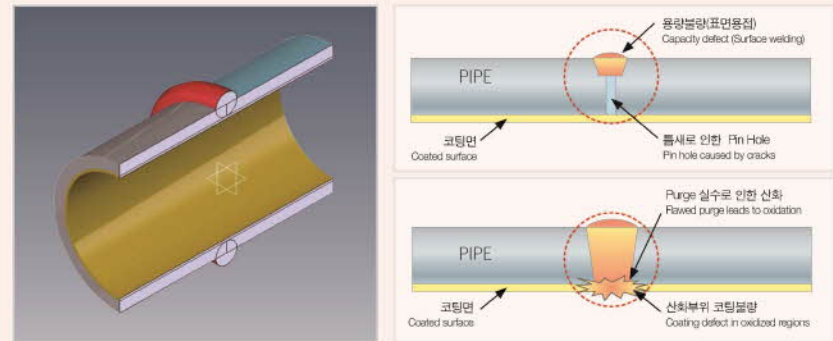
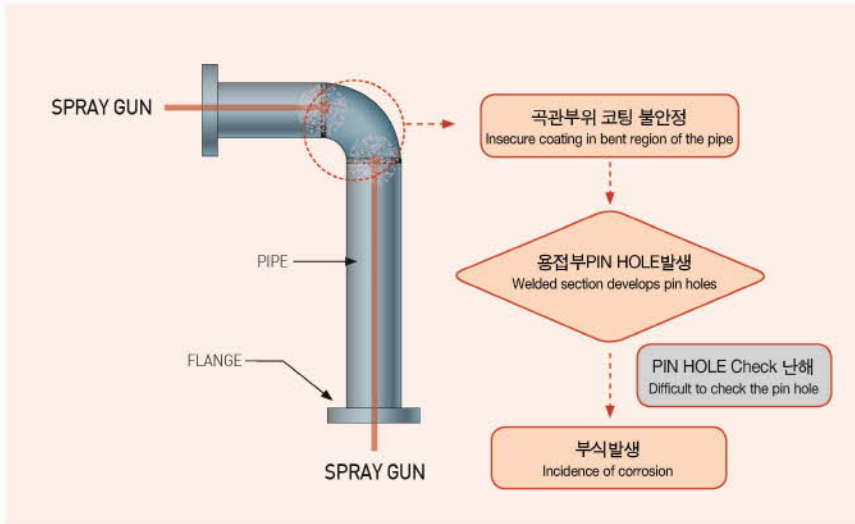
- 1) No welding: Heatless work / Welding machine / Purge Line unnecessary
- 2) No processing: Cutter unnecessary
- 3) Assembly method: Spool manufacturing / Temporary assembly unnecessary / Highly qualified technician unnecessary - (plumber, welder)

5대 효과 / 5 Effects

- 1) 공기 단 속 : 시공방법 간결/ 작업 동선 단거리/ 작업 준비물 간결
 - 2) 원 가 절 감 : PM 주기 연장/ 생산 장비 가동연장/ 조기 SET-UP
 - 3) 비회기작업 : 화재 불안 無/ 인화성 TIE-IN 완벽/ 회기 감시자 無
 - 4) 품질 향상 : 우수한 기밀성/ 내진 효과/ 진동 흡수
 - 5) 재 사 용 : Modify 대처/ Revision 대처/ 세정후 70% 재사용
- 1) Construction time shortened: Concise construction technique/ Short work distance/ Concise job readiness
 - 2) Cost reduction: PM cycle extension/ Extended production gear running time/ Initial set-up
 - 3) No heat required: No apprehension of fires/ Complete inflammability TIE-IN/ No personnel required to monitor heat
 - 4) Quality improvements: Excellent sealing/ Earthquake proof/ Vibration absorption
 - 5) Reusable: Modification capable/ Revision capable/ 70% reusable after wash

Types of Corrosion

코팅 제품의 부식원인 / corrosion cause of a coating product

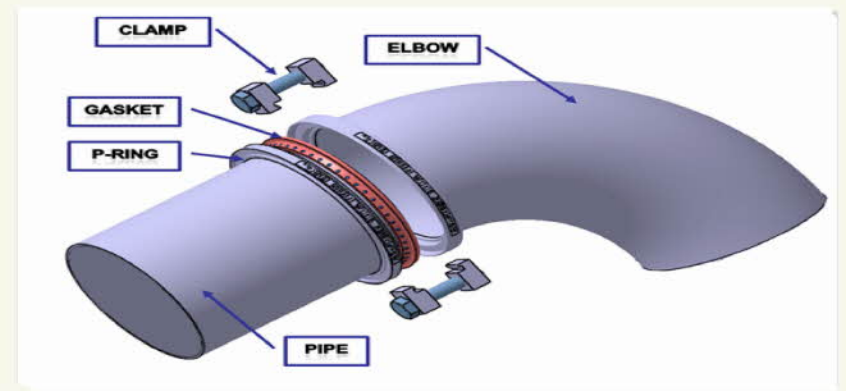


해결 / Resolution

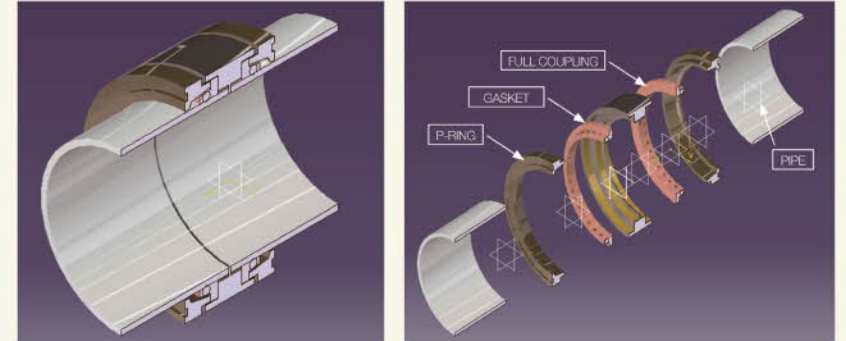
해결 / Resolution

SEIN Resolution

부식 현상 해결 / Resolution for Corrosion



- Gasket 안쪽에 삽입되어 있는 볼이 P-ring과 Pipe를 잡아주는 구조로 되어 있음
- 볼이 P-ring 부분의 경사면의 좁은 쪽으로 조립 되면서 박히게 되는 원리
- The ball inserted inside the gasket is structured to grasp the P-ring and Pipe
- Principle is that the ball is nudged on the narrow side of the incline of the P-ring when assembled

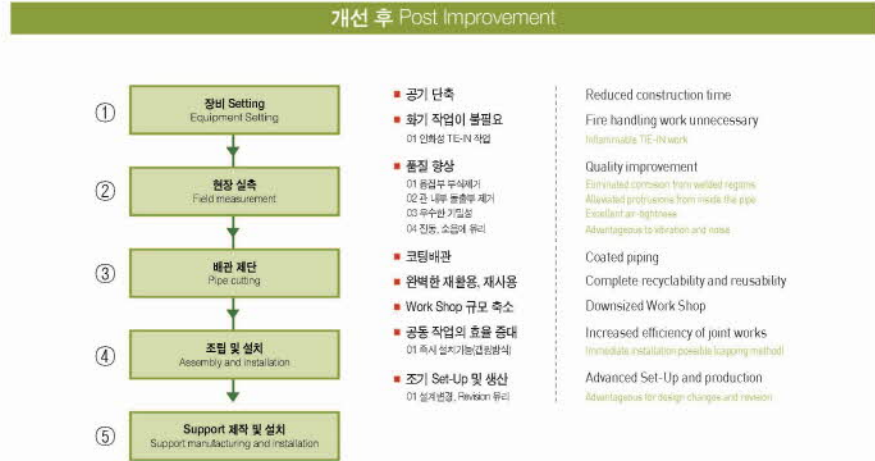
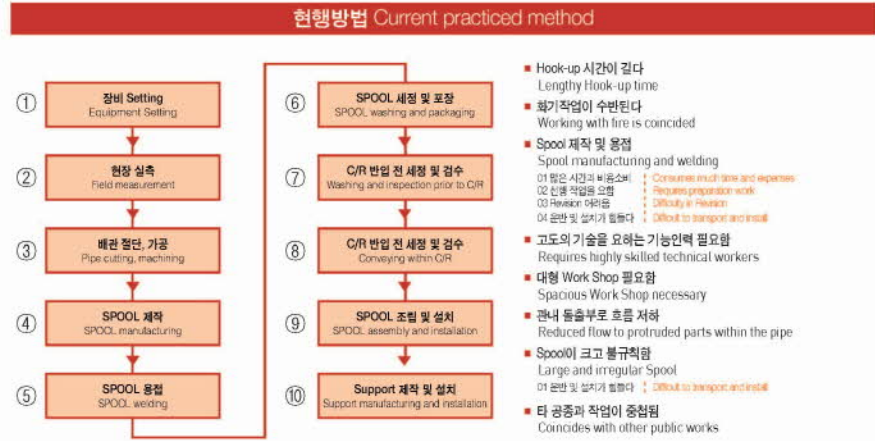


- ① 조립식 공법
- ② 무가공 / 무용접 방식으로 체결
- ① Assembly method
- ② No processing/ no welding mounting method

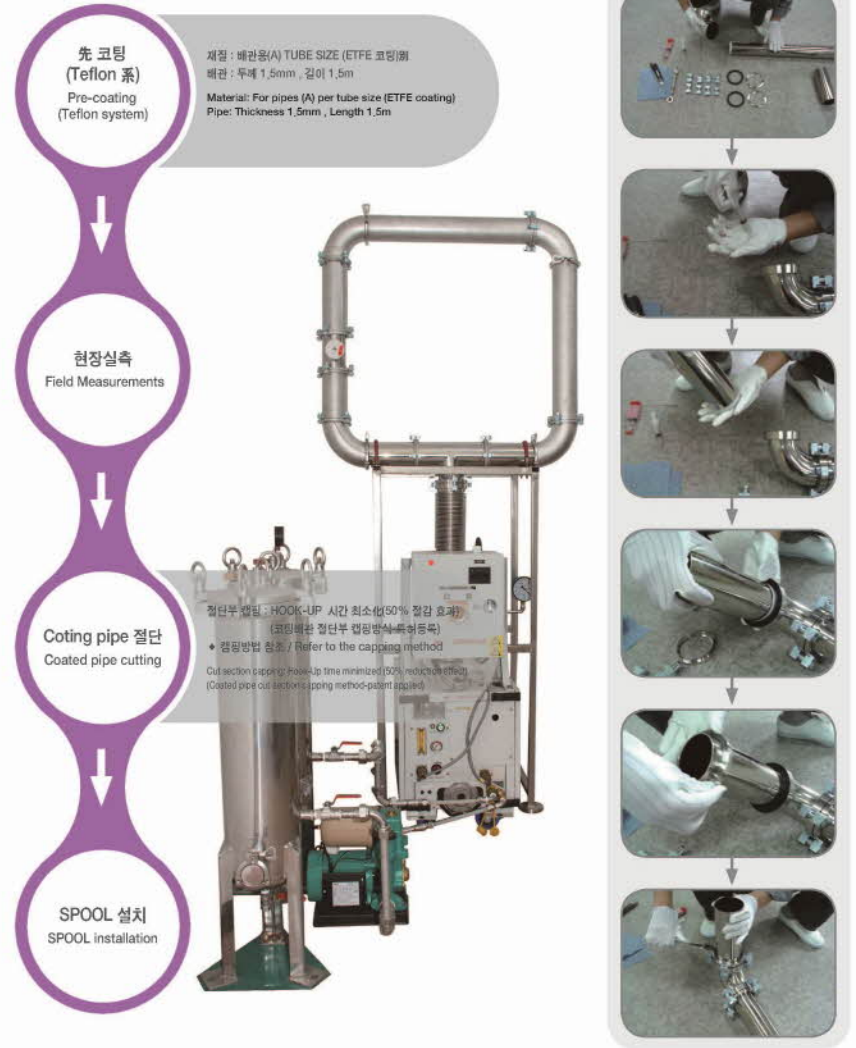
Installation Flow



현행공법 VS 개선공법 / Current Practiced Method VS. Proposed Improved Method



작업과정 / Work Process



A1 JOINT Proposal

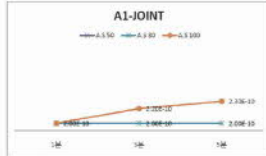
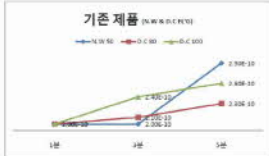


개요 / Overview

- 진공 및 배기 배관에 쓰이는 접합 공법으로, 기존기술의 한계인 접합부 가공이나 용접을 극복한 것으로 배관 단위 가공없이 절단후 바로 연결할 수 있고 사용후 재사용할 수 있는 배관 연결기술임
- 접합부 내식성이 우수하고, 연결이 간편하여 공기 단축 및 원가절감에 효과적임
- The assembly method used in vacuum and exhaust piping overcomes the limitation of existing technologies such as finishing or welding of joints and this pipe connecting technology enables immediate connecting without the need for cutting and can be reused repeatedly.
- Joints have an excellent resistance to corrosion and due to easy connectivity, highly effective in reducing construction time and cost.

시험결과 / Test Results

기존 제품 (N.W & D.C.F.L : G) Existing product	시료명 / Sample name	시험 결과(경과시간) / Sample name Test result (elapsed time)		
		1분 / 1 min	3분 / 3 min	5분 / 5 min
N.W 5	N.W 50	$\leq 2.0 \times 10^{-10}$	2.5×10^{-10}	2.9×10^{-10}
	D.C 80	$\leq 2.0 \times 10^{-10}$	2.1×10^{-10}	2.3×10^{-10}
	D.C 100	$\leq 2.0 \times 10^{-10}$	2.4×10^{-10}	2.6×10^{-10}
기존 제품 (N.W & D.C.F.L : G) Existing product	A.S 50	$\leq 2.0 \times 10^{-10}$	$\leq 2.0 \times 10^{-10}$	$\leq 2.0 \times 10^{-10}$
	A.S 80	$\leq 2.0 \times 10^{-10}$	$\leq 2.0 \times 10^{-10}$	$\leq 2.0 \times 10^{-10}$
	A.S 100	$\leq 2.0 \times 10^{-10}$	$\leq 2.2 \times 10^{-10}$	$\leq 2.3 \times 10^{-10}$



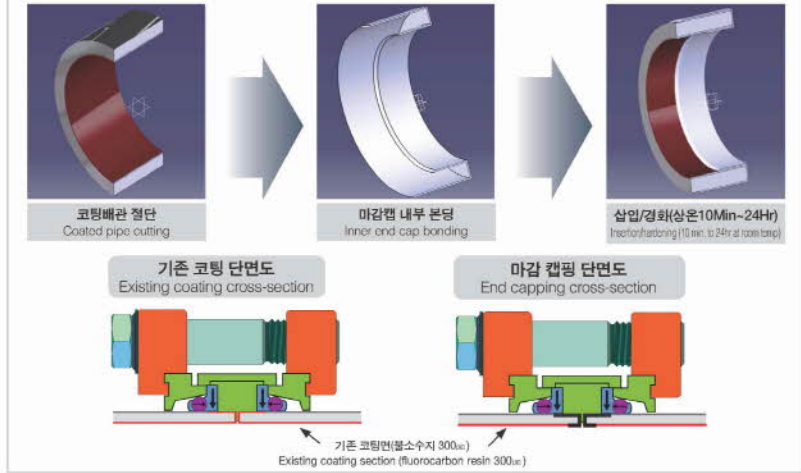
기존 제품보다 진공도가 탁월함.
Degree of vacuum seal is far more superior to existing products

비교분석 / Comparison Parser

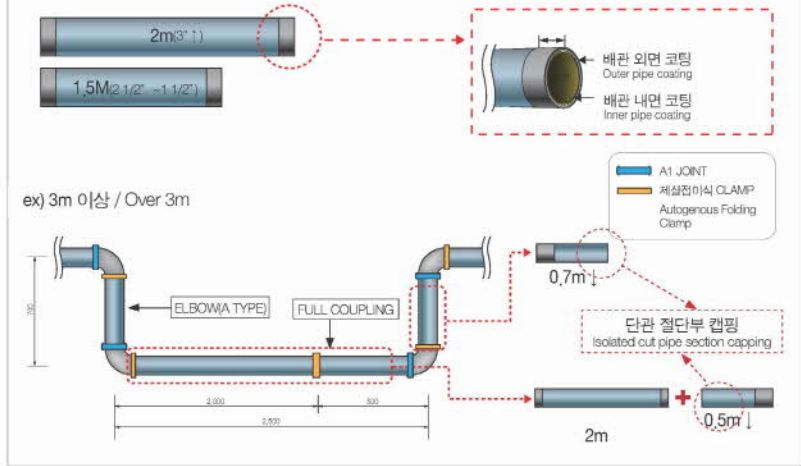
구분 Classification	작업순서 Work Flow	현행법 Current method	신공법 Improved method
GR 작업 GR work	현장실측 / Field measurement	0.3	0.3
SHOP 작업 / Shop work	Spool 제작 / Spool manufacturing	1	0.3
GR 작업 / Shop work	Spool 설치 / Spool installation	0.5	0.5
	Spool 찢기 / Spool tear down	0.2	-
SHOP 작업 / Shop work	Coating / Shop work	7	-
	Spool 반입 / Spool acceptance	0.1	-
SHOP 작업 / Shop work	Spool 재설치 / Spool re-installation	0.5	-
	Support 설치 / Support installation	0.3	0.3
	Turn-on / Shop work	0.1	0.1
총소요시간(일) / Total time consumed (in days)		10 day	1.5 day



작업방법 / Working Method



先 코팅 / Pre-coating



A2 JOINT Proposal



개요 / Overview



현재 반도체, 화학, LCD 배기 LINE 설치시 배관조립 방식으로 FLANGE 용접 방식을 사용하고 있다. 이러한 방법은 비용과 작업시간이 부담스러운 면이 있다. A2-JOINT는 자체비는 물론, 인건비의 절감 효과를 볼 수 있으며 작업시간의 단축으로 생산성이 높으며 유지보수를 쉽게 할 수 있다.

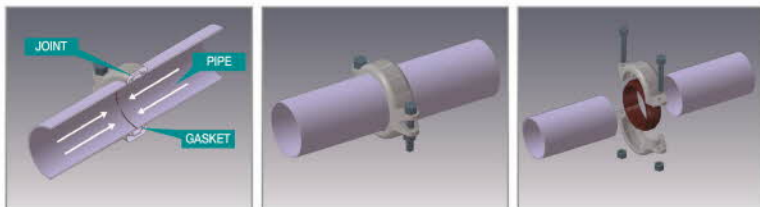
At present, the flange welding method is being practiced as a means to assemble piping for semiconductor, chemical, LCD ventilation line installation. However, the cost and work duration as a result of using this method is a burden. In contrast, A2-Joint is effective not only for the reduced labor cost, but also the material cost as well. In addition, because of the reduced work time, results in high productivity and easy maintenance

적용범위 / Scope

종류 Type	재질 Material	SUS	SPP	SPPW	Copper Pipe	PVC
진공배관 Vacuum pipe		O	O	O	O	O
배기 Ventilation		O	O	O	O	O
배수 Discharge		O	O	O	O	O
최대사용 압력 Maximum used pressure		정압 : 3kgf/cm ² 부압 : 2.0x10 ⁻¹⁵ torr				

- 안전성** Safety: 무용접 작업으로 화재사고 및 추락사고 방지
No welding prevents fires and falls
- 재사용** Reusable: 모든 자재 재사용 가능
All materials can be reused
- 비용절감** Cost reduction: 공기단축 및 고인력 불필요로 인한 인건비 절감 시공시 부대비용 절감효과
Reduced construction time and elimination of the need for highly skilled workers saves on labor costs and effective in reducing incidental expenses during construction
- 진동흡수** Vibration absorption: 관내 진동흡수의 효과를 볼 수 있게 설계되어 진동으로 인한 건물의 훼손 방지 및 장비의 수명 연장 효과
Expansion joint inside the pipe is designed to produce positive results such as prevention of building damage from vibration and prolonged equipment life cycle

적용방법 / Application Method



A3 JOINT Proposal



개요 / Overview



본 제품은 모든 설비배관에 적용 가능하며 시공이 간편하고, 재사용이 가능하므로 원가절감은 물론 환경 및 화기로부터의 안전에도 탁월한 효과를 볼 수 있다.

This product can be applied to all facility pipes. The construction is easy and it is reusable making it most effective in reducing costs, protecting the environment and providing protection from fires.

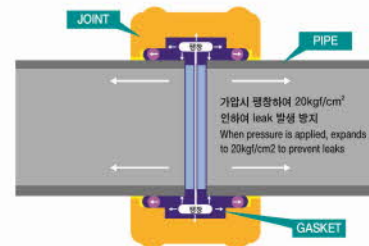
적용범위 / Scope

종류 Type	재질 Material	SUS	SPP	SPPW	Copper Pipe	PVC
급수 Water Supply		O	O	O	O	O
급탕 Hot Water		O	O	O	O	O
냉난방 Heating/Cooling		O	O	O	O	O
소방 배관 firefighting pipe		O	O	O	O	O
최대사용량 Maximum Usage		15kgf/cm ²			10kgf/cm ²	

효과 / Effect

- 안전성** Safety: 무용접 작업으로 화재사고 및 추락사고 방지
No welding prevents fires and falls
- 재사용** Reusable: 모든 자재 재사용 가능
All materials can be reused
- 비용절감** Cost reduction: 공기단축 및 고인력 불필요로 인한 인건비 절감 시공시 부대비용 절감효과
Reduced construction time and elimination of the need for highly skilled workers saves on labor costs and effective in reducing incidental expenses during construction
- 진동흡수** Vibration absorption: 관내 진동흡수의 효과를 볼 수 있게 설계되어 진동으로 인한 건물의 훼손방지 및 장비의 수명 연장 효과
Expansion joint inside the pipe is designed to produce positive results such as prevention of building damage from vibration and prolonged equipment life cycle

적용방법 및 구조 / Application Method and Structure

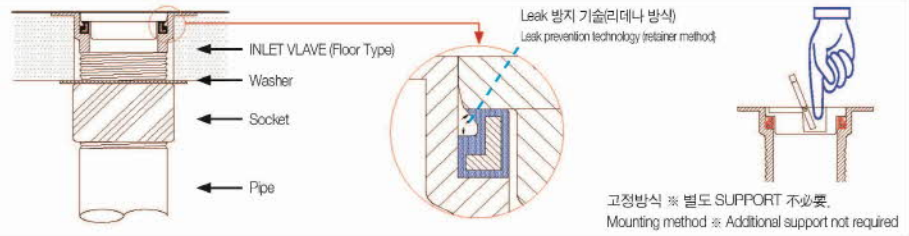


- 현장 실측 / Field measurement
- 배관 차단 / Pipe cutting
- 조립 설치 / Assembly

INLET VALVE

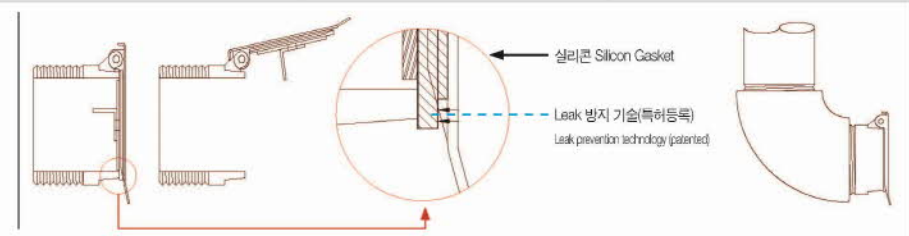


바닥형 / Floor type



설치 조립도(Access Floor 조립) / Installation assembly drawing (Access Floor assembly)

벽부형 / Wall type

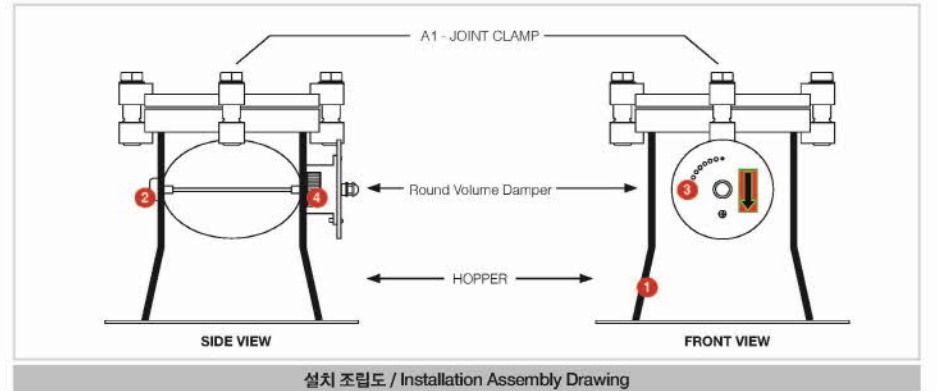


설치 조립도(Access Floor 조립) / Installation assembly drawing (Access Floor assembly)

ROUND VOLUME DAMPER(SUS)



개요 / Overview



- ① 제살로 확관. 용접 Point가 없고 Hopper 겸용
- ② 제살로 요철하여 용접 / Leak Point가 없다
- ③ Shut-) Open까지 8단계로 미세 조절이 가능하며 자동 잠금 장치로 오작동 해소
- ④ 내부 Packing 처리로 Leak가 없다

- ① Autogenous pipe expansion. No welding point and uses the hopper in conjunction
- ② Autogenous ribs eliminates welding and leak point
- ③ 8 stage exists from SHUT to OPEN, enabling fine adjustments, and auto locking device alleviates malfunctions
- ④ Inner packing process leads to no leaks

SEIN ENGINEERING Product



1. PIPE



제품군 Product Family	제품명 Product name	규격 Standard	재질 Quality	Application
A1	PIPE	50 / 60 / 80 / 100 125 / 150 / 200 / 250	SUS304	ETFE, COATING

2. TEE



제품군 Product Family	제품명 Product name	규격 Standard	재질 Quality	Application
A1	TEE	50 / 60 / 80 / 100 125 / 150 / 200 / 250	SUS304	ETFE, COATING

3. ELBOW (90°)



제품군 Product Family	제품명 Product name	규격 Standard	재질 Quality	Application
A1	ELBOW (90°)	50 / 60 / 80 / 100 125 / 150 / 200 / 250	SUS304	ETFE, COATING

4. ELBOW (45°)



제품군 Product Family	제품명 Product name	규격 Standard	재질 Quality	Application
A1	ELBOW (45°)	50 / 60 / 80 / 100 125 / 150 / 200 / 250	SUS304	ETFE, COATING

5. REDUCER



제품군 Product Family	제품명 Product name	규격 Standard	재질 Quality	Application
A1	REDUCER	50 / 60 / 80 / 100 125 / 150 / 200 / 250	SUS304	ETFE, COATING

6. BELLOWS



제품군 Product Family	제품명 Product name	규격 Standard	재질 Quality	Application
A1	BELLOWS	50 / 60 / 80 / 100 125 / 150 / 200 / 250	SUS304	ETFE, COATING

7. COUPLING



제품군 Product Family	제품명 Product name	규격 Standard	재질 Quality	Application
A1	COUPLING	50 / 60 / 80 / 100 125 / 150 / 200 / 250	SUS304	ETFE, COATING

8. GASKET



제품군 Product Family	제품명 Product name	규격 Standard	재질 Quality	Application
A1	GASKET	50 / 60 / 80 / 100 125 / 150 / 200 / 250	VITON EPDM EPDM+PTFE	

9. CLAMP



제품군 Product Family	제품명 Product name	규격 Standard	재질 Quality	Application
A1	CLAMP	50 / 60 / 80 / 100 125 / 150 / 200 / 250		아연도금 / Zinc Plating

10. ADAPTER (D.C)



제품군 Product Family	제품명 Product name	규격 Standard	재질 Quality	Application
A1	ADAPTER (D,C)	50 / 60 / 80 / 100 125 / 150 / 200 / 250	SUS304	ETFE, COATING

11. ADAPTER (N.W)



제품군 Product Family	제품명 Product name	규격 Standard	재질 Quality	Application
A1	ADAPTER (N,W)	50 / 60 / 80 / 100 125 / 150 / 200 / 250	SUS304	ETFE, COATING

11. A2-JOINT



제품군 Product Family	제품명 Product name	규격 Standard	재질 Quality	Application
A2	JOINT	50 / 60 / 80 / 100 125 / 150 / 200 / 250	SUS304	ETFE, COATING

Company Information | Product Information | Types of Corrosion | Resolution | Installation Flow | Products

SEIN ENGINEERING Product



1. A3-JOINT



제품군 Product Family	제품명 Product name	규격 Standard	재질 Quality	Application
A3	JOINT	50 / 60 / 80 / 100 125 / 150 / 200 / 250	SUS304	ETFE, COATING

2. 제살접이식 클램프 / Autogenous Folding Clamp



제품군 Product Family	제품명 Product name	규격 Standard	재질 Quality	Application
OTHER	JOINT	50 / 60 / 80 / 100 125 / 150 / 200 / 250	SUS304	

3. DAMPER



제품군 Product Family	제품명 Product name	규격 Standard	재질 Quality	Application
OTHER	DAMPER	50 / 60 / 80 / 100 125 / 150 / 200 / 250	SUS304	

4. DAMPER 제살접이식 / Damper Autogenous Folding Type



제품군 Product Family	제품명 Product name	규격 Standard	재질 Quality	Application
OTHER	DAMPER 제살접이식	50 / 60 / 80 / 100 125 / 150 / 200 / 250	SUS304	

5. DAMPER WELDING TYPE



제품군 Product Family	제품명 Product name	규격 Standard	재질 Quality	Application
OTHER	DAMPER	50 / 60 / 80 / 100 125 / 150 / 200 / 250	SUS304	

6. HOPPER



제품군 Product Family	제품명 Product name	규격 Standard	재질 Quality	Application
OTHER	HOPPER	50 / 60 / 80 / 100 125 / 150 / 200 / 250	SUS304	

7. PVC DAMPER 양쪽 FLANGE / PVC Damper Both End Flange



제품군 Product Family	제품명 Product name	규격 Standard	재질 Quality	Application
OTHER	PVC DAMPER 양쪽 FLANGE	50 / 60 / 80 / 100 125 / 150 / 200 / 250	PVC	

8. PVC DAMPER 한쪽 FLANGE / PVC Damper One End Flange



제품군 Product Family	제품명 Product name	규격 Standard	재질 Quality	Application
OTHER	PVC DAMPER 한쪽 FLANGE	50 / 60 / 80 / 100 125 / 150 / 200 / 250	PVC	

9. PVC DAMPER SOKET TYPE



제품군 Product Family	제품명 Product name	규격 Standard	재질 Quality	Application
OTHER	PVC DAMPER SOKET TYPE	50 / 60 / 80 / 100 125 / 150 / 200 / 250	PVC	

10. INLET VALVE(Wall Type)



제품군 Product Family	제품명 Product name	규격 Standard	재질 Quality	Application
IN-LET VALVE	WALL TYPE	50A	SUS304	

11. INLET VALVE(Floor Type)



제품군 Product Family	제품명 Product name	규격 Standard	재질 Quality	Application
IN-LET VALVE	FLOOR TYPE	50A	SUS304	

12. 청소용호스 SET / Cleaning Hose Set



제품군 Product Family	제품명 Product name	규격 Standard	재질 Quality	Application
청소용 호스셋 Cleaning-Hose Set	청소용 호스SET Cleaning-Hose Set	50A	SUS304	