

HAESUNG SANITARY

NO.1



스텐레스밸브 전문제작

식품 제약 화학 샘플 PLANT, SANITARY EQUIPMENT TANK 제작 및
위생 배관 시공



해성세니타리

HAESUNG SANITARY

<http://www.hssanitary.com>

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HAESUNG SANITARY



공기압 자동밸브 / PNEUMATIC VALVES



● **재 질** STS304, STS316, STS316L

● **일반사양**

1. 밸브

사용압력 : 5~10kgf 허용온도 : -20~130℃

2. 액츄에이터

작동방법 : 공압 주입시 열림(평시 닫힘)

최적 운전 압력 : 4~8kg/cm²

공압접속구 : 6Ø, 8Ø

● **표면거칠기**

내면 : Ra≤0.64μm, 외면 : Ra≤0.64μm

● **접속부의 형태**

메일, 웨일, 딘메일, 용접, 후렌지 등

● **가스켓** EPDM, SILICON, VITON

● **옵 션**

1. 리미트 스위치 부착
2. 솔레노이드 밸브 부착
3. 작동방법의 변경

● **검사 및 시험**

작동, 내압, 누수, 외관 : 전수검사

● **주문방법**

자동밸브를 주문하실 때는 밸브명, 재질, 규격, 수량과 사용용도, 그리고 배관에 연결되어지는 부분에 대해 알려 주시기 바랍니다.

● **Material** STS304, STS316, STS316L

● **Specification**

1. Valve

Operation Pressure : 5~10kgf

Allowance Temperature : -20~130℃

2. Actuator

Operation Method : Air to Open(Normal Close)

Operation Pressure : 4~8kg/cm²

Air Connection : 6Ø, 8Ø

● **Surface Roughness**

Inner Surface : Ra≤0.64μm, Outward Surface : Ra≤0.64μm

● **Type of Connection Part**

Male, Ferrule, Din Mail, Butt weld, Flange ect...

● **Gasket** EPDM, SILICON, VITON

● **Option**

1. Adhere Limit Switch
2. Adhere Solenoid Valve
3. Change operation method (normal open)

● **Inspection & Test**

Performance, Hydrostatic, Leakage, Proof of design test:
Applicable to each

● **When Ordering Valves**

When Ordering Valves, please specify their name, material, size, quantity and application, and the shape of a tube where they coupled

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PNEUMATIC VALVES

Standard Specifications

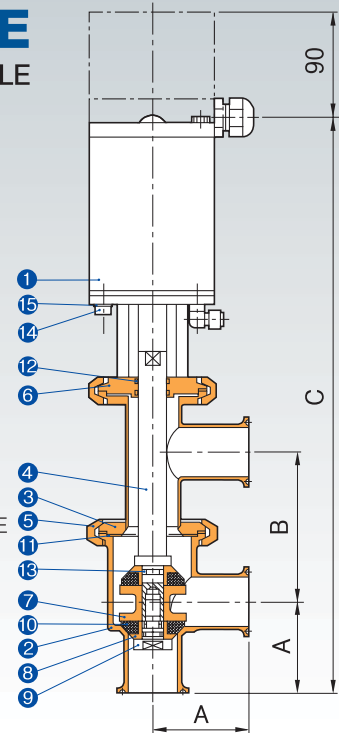
The valve bodies and other parts in contact with the liquid are SUS 304, 316, 316L, stainless steel
 Material of seals : PTEF+NBR+SILICON
 Fittings standards :
 IDF/ISO Male, Ferrule, Other
 Maximum fluid pressure :
 10kg^l/cm²
 Surface finish : precision ground (#320 to #400) for internal & external surface
 Operation air pressure :
 3~7kg^l/cm²



FE VALVE

HS-PNF-3FERRULE

1. CYLINDER
2. L-BODY
3. T-BODY
4. SHAFT
5. CLAMP BAND
6. YOKE
7. SEAT ADAPTER
8. PACKING PRESSURE
9. LOCK BOLT
10. SEAT GASKET
11. GASKET
12. O-RING
13. O-RING
14. WRENCH BOLT
15. SPRING WASHER

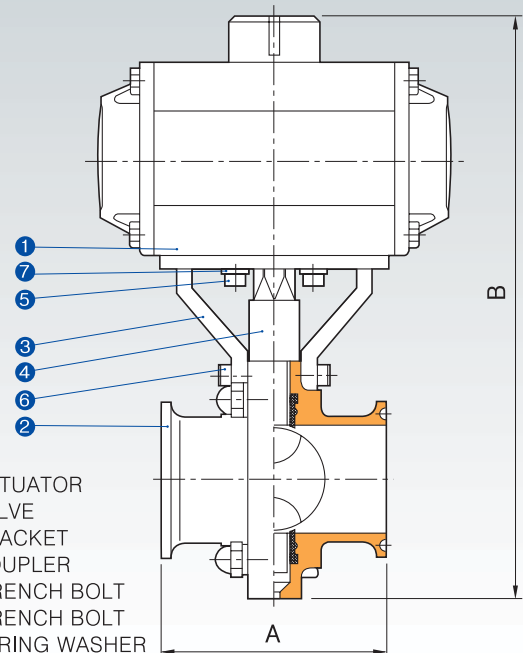


SIZE	1S	1.5S	2S	2.5S	3S
A		70	82	105	110
B		105	130	140	160
C		471	513	560	584

AUTO BUTTERFLY VALVE

HS-PBF-2FERRULE

1. ACTUATOR
2. VALVE
3. BRACKET
4. COUPLER
5. WRENCH BOLT
6. WRENCH BOLT
7. SPRING WASHER



SIZE	1S	1.5S	2S	2.5S	3S	4S
A	100	100	100	100	100	120
B		368	373	416	431	

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PNEUMATIC VALVES

Standard Specifications

The valve bodies and other parts in contact with the liquid are SUS 304, 316, 316L, stainless steel
 Material of seals : PTFE+NBR+SILICON
 Fittings standards : IDF/ISO Male, Ferrule, Other
 Maximum fluid pressure : 10kgf/cm²
 Surface finish : precision ground (#320 to #400) for internal & external surface
 Operation air pressure : 3~7kgf/cm²



L or T-Position (선택)
 PORT NO. 1 Standard

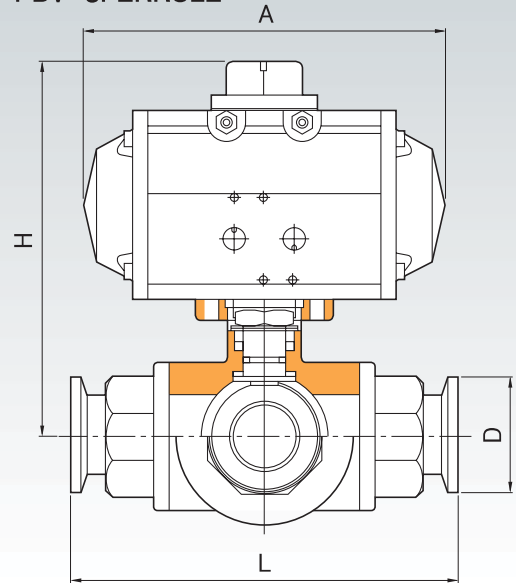
PORT	1	2	3	4
L	1 ⊕ 2 3	1 ⊕ 2 3	1 ⊕ 2 3	1 ⊕ 2 3
T	1 ⊕ 2 3	1 ⊕ 2 3	1 ⊕ 2 3	1 ⊕ 2 3



SIZE	L	A	D	H	ACTUATOR	WT(Kg)
1/2S	89	144	25.4	126	RP-050GD	1.5
3/4S	101	144	25.4	136	RP-050GD	1.7
1S	114	144	50.4	146.2	RP-050GD	2.8
1.5S	140	213	50.4	206.2	RP-075GD	5.1

AUTO 3WAY BALL VALVE

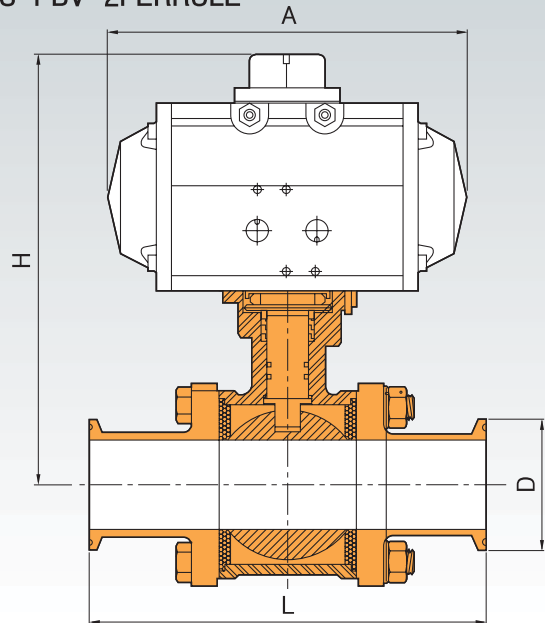
HS-PBV-3FERRULE



SIZE	L	A	D	H	ACTUATOR	WT(Kg)
1/2S	133	144	25.4	126.5	RP-050GD	1.9
3/4S	142	144	25.4	126.5	RP-050GD	1.9
1S	160	144	50.4	138	RP-050GD	2.8
1.5S	182	213	50.4	191	RP-075GD	6.5
2S	216	253	63.8	210	RP-088GD	8.8

AUTO 2WAY BALL VALVE

HS-PBV-2FERRULE



SIZE	L	A	D	H	ACTUATOR	WT(Kg)
2S	156	253	63.8	222.2	RP-088GD	7.0
2.5S	197	253	77.6	245.2	RP-088GD	12.2
3S	229	352	91	306.7	RP-125GD	19.6
4S	241	352	119	330.2	RP-125GD	28.6

수동밸브 / MANUAL ON/OFF VALVES



● **재 질** STS304, STS316, STS316L

● **일반사항**

사용압력 : 5~10kgf 허용온도 : -20~130℃

● **표면거칠기**

내면 : $Ra \leq 0.64 \mu m$, 외면 : $Ra \leq 0.64 \mu m$

● **접속부의 형태**

메일, 웨일, 딘메일, 용접, 후렌지 등

● **가스켓** EPDM, SILICON, VITON

● **검사 및 시험**

작동, 내압, 누수, 외관 : 전수검사

● **주문방법**

밸브를 주문하실 때는 밸브명, 재질, 규격, 수량과 사용용도, 그리고 배관에 연결되어지는 부분에 대해 알려 주시기 바랍니다.

● **선택사항** 3Way Ball인 경우 T형 / L형 중 선택

● **배관 접속부의 형상은 클램프 또는 나사, 유니온 등으로 규격화 되어 있습니다.**

- 버터플라이밸브 : 수동 버터플라이밸브는 오른쪽 또는 왼쪽으로 15°씩 핸들로 작동하므로 유량조절이 가능합니다.
- 코크밸브 : 하체식과 상체식 두가지 타입이 있습니다.
- 볼밸브 : 라운드너트로 밸브몸통의 분해조립이 쉽습니다.
- 체크밸브 : 이 밸브는 수직과 수평배관에 모두 설치가 가능합니다.
- 릴리프밸브 : 표준 압력 범위는 1~5kg/cm²이다.

● **Material** STS304, STS316, STS316L

● **Specification**

Operation Pressure : 5~10kgf
Allowance Temperature : -20~130℃

● **Surface Roughness**

Inner Surface : $Ra \leq 0.64 \mu m$, Outward Surface : $Ra \leq 0.64 \mu m$

● **Type of Connection Part**

Male, Ferrule, Din Mail, Butt weld, Flange ect...

● **Gasket** EPDM, SILICON, VITON

● **Inspection & Test**

Performance, Hydrostatic, Leakage, Proof of design test:
Applicable to each

● **When Ordering Valves**

When Ordering Valves, please specify their name, material, size, quantity and application, and the shape of a tube where they coupled

● **Option** In case of 3WAY Ball Valve, Could you choice T-port or L-port

● **The shape of the tube ends are clamp or male or union as standard**

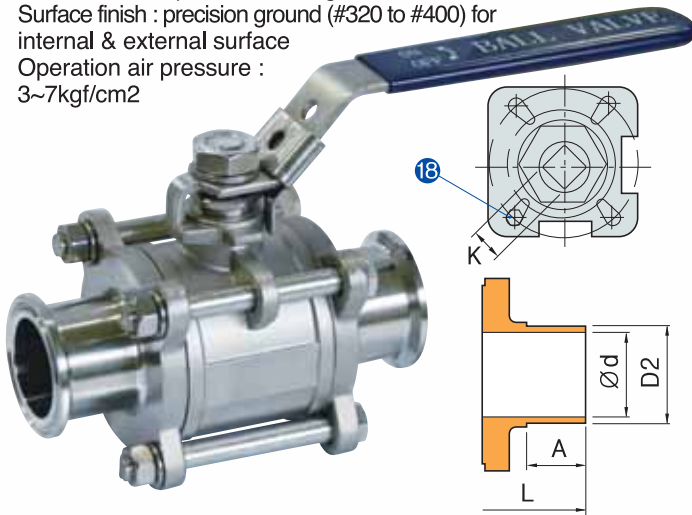
- Butterfly valve : Manual butterfly valve with operating right and left handle, stopper at each 15° to be controlled flow control
- Cock valve : Two types are available of lower and upper tightening type.
- Ball valve : The ROUND-NUT used for the connection of the valve body for easy assembling and disassembling.
- Check valve : This valve can be installed for both vertical and horizontal piping.
- Relief valve : The standard range of pressure setting is 1~5kg/cm²

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PNEUMATIC VALVES

Standard Specifications

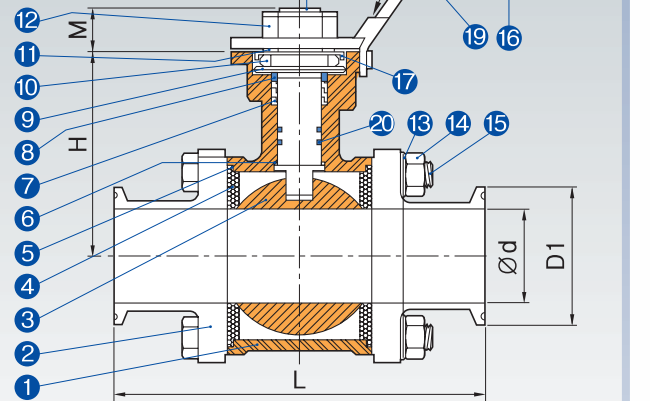
The valve bodies and other parts in contact with the liquid are SUS 304, 316, 316L, stainless steel
 Material of seals : PTFE+NBR+SILICON
 Fittings standards : IDF/ISO Male, Ferrule, Other
 Maximum fluid pressure : 10kgf/cm²
 Surface finish : precision ground (#320 to #400) for internal & external surface
 Operation air pressure : 3~7kgf/cm²



SIZE	Ød±0.5	L±2.0	H	M±2.0	ISO 5211	K	D1	D2	A	Torque(NM)
1/2"	9.5	89	37	9	F03/04	9	25.4	12.7	18	6.8
3/4"	15.9	101	47	9	F03/04	9	25.4	19.1	21	9.0
1"	22.2	114	57.2	11	F04/05	11	50.4	25.4	25	13.6
1.5"	35.0	140	78.2	14	F05/07	14	50.4	38.2	28	43.4

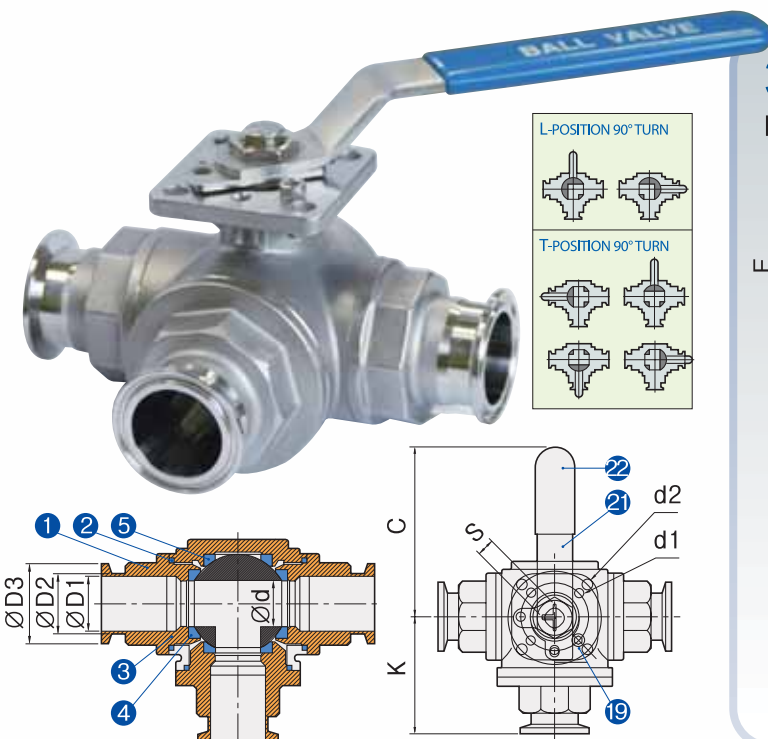
2WAY BALL VALVE

HS-MBV-2FERRULE



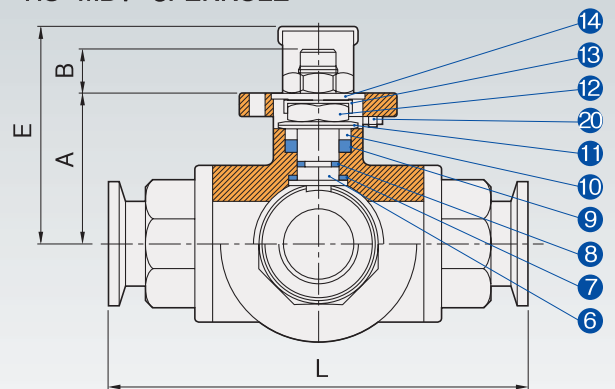
No.	Parts	Materials	Q'TY	No.	Parts	Materials	Q'TY
1	Body	A351-CF8M	1	11	Gland Nut	SS 304	1
2	Clamp End	A351-CF8M	2	12	Handle Nut	SS 304	1
3	Ball	A351-CF8M	1	13	Washer	SS 304	4
4	Seat	TFM-1600	2	14	Hex Nut	SS 304	4
5	Body Seal	TFM-1600	2	15	Bolts	SS 304	4
6	Thrust Packing	PTFE	1	16	Handle Cover	PLASTIC	1
7	Stemp Packing	PTFE	2	17	Stop Nut	SS 304	1
8	Lock Washer	SS 304	1	18	Stem	SS 316	1
9	Belleville Washer	SS 304	2	19	Handle	SS 304	1
10	Stem Nut	SS 304	1	20	O-Ring	VITON	2

SIZE	Ød±0.5	L±2.0	H	M±2.0	ISO 5211	K	D1	D2	A	Torque(NM)
2"	47.6	156	86.2	14	F05/07	14	63.8	50.8	25	73.2
2.5"	60.3	197	109.2	17	F07/10	17	77.6	63.5	35	84.1
3"	73.0	229	117.7	17	F07/10	17	91.0	76.2	43	165.4
4"	97.4	241	141.2	22	F10/12	22	119	100.6	37	184.4



3WAY BALL VALVE

HS-MBV-3FERRULE

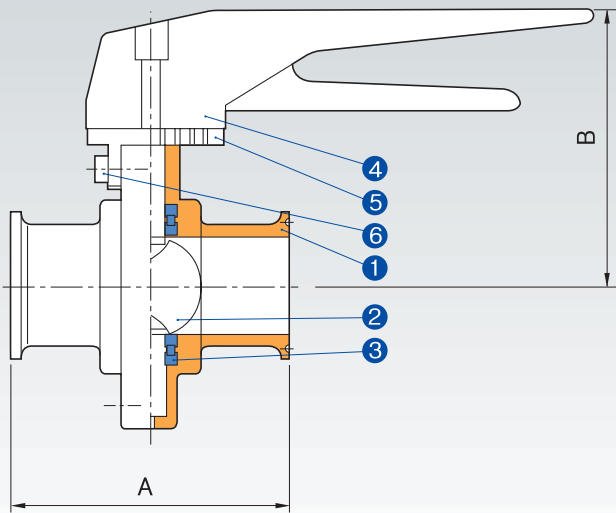


No.	Parts	Materials	No.	Parts	Materials
1	Clamp End	A351-CF8M	10	Gland	SS 304
2	Gasket	PTFE	11	Disk Washer	SS 304
3	Body	A351-CF8M	12	Stem Nut	SS 304
4	Ball	A351-CF8M	13	Nut Stop	SS 304
5	Seat	PTFE	14	Space Washer	SS 304
6	Stem	SS 316	19	Stopper	SS 304
7	Thrust Washer	RPTFE	20	Stop Pin Nut	SS 316
8	O-Ring	VITON	21	Handle	SS 304
9	Stem Packing	PTFE	22	Cover	PLASTIC

SIZE	Ød	L	A	B	E	K	C	D1	D2	D3	E	ISO 5211	S	d1	d2	Torque(NM)
1/2"	12	133	37.5	11	62	66.5	130	9.6	21.7	25.4	62	F03/04	9	6.0	6.0	6.5
3/4"	12	142	37.5	11	62	71	130	15.8	21.7	25.4	62	F03/04	9	6.0	6.0	8.0
1"	20	160	49	14	82	80	165	22.1	43.5	50.4	82	F04/05	11	6.0	7.1	10.0
1.5"	32	182	63	18	98	91	205	34.8	43.5	50.4	98	F05/07	14	7.1	9.2	32.0
2"	38	216	74	18	108	108	205	47.5	56.5	63.9	108	F05/07	14	7.1	9.2	35.0

BUTTERFLY VALVE

HS-MBF-2FERRULE

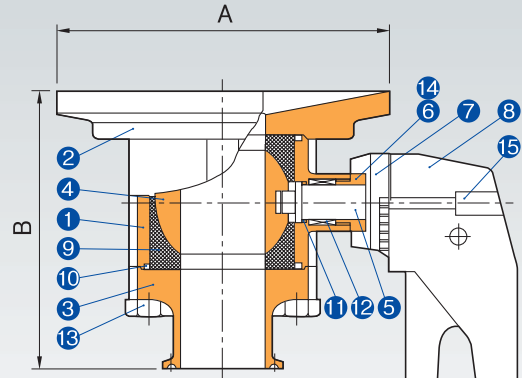


- 1. BODY
- 2. DISK
- 3. SEAT
- 4. HANDLE ASS'Y
- 5. STOPPER
- 6. BOLT

SIZE	1S	1.5S	2S	2.5S	3S	4S
A	100	100	100	100	100	120
B	90	100	105	110	115	140

FLUSH TANK BALL VALVE

HS-TAV-01

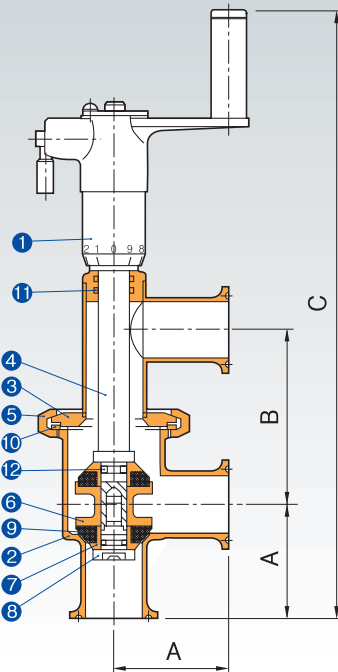


- 1. BODY
- 2. FLANGE BODY
- 3. ADAPTER
- 4. BALL
- 5. STEM
- 6. PRESSURE
- 7. STOPPER
- 8. HANDLE ASS'Y
- 9. SEAT GASKET
- 10. BODY GASKET
- 11. PACKING RING
- 12. V-PACKING
- 13. BOLT
- 14. WRENCH BOLT
- 15. WRENCH BOLT

SIZE	1S	1.5S	2S	2.5S	
A	97.5	117	135	148	
B	85	105	150	180	

F-HAND VALVE

HS-FHV-3F

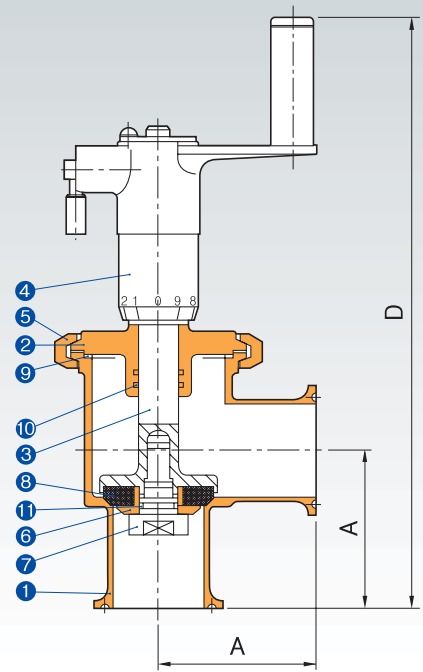


- 1. HANDLE
- 2. L-BODY
- 3. T-BODY
- 4. SHAFT
- 5. CLAMP BAND
- 6. SEAT ADAPTER
- 7. PACKING PRESSURE
- 8. LOCK BOLT
- 9. SEAT GASKET
- 10. GASKET
- 11. O-RING
- 12. O-RING

SIZE	1S	1.5S	2S	2.5S	3S
A		70	82	105	110
B		105	130	140	160

L-HAND VALVE

HS-LHV-2F



- 1. L-BODY
- 2. STEM GUIDE
- 3. SHAFT
- 4. HANDLE
- 5. CLAMP BAND
- 6. PACKING PRESSURE
- 7. LOCK BOLT
- 8. SEAT GASKET
- 9. GASKET
- 10. O-RING
- 11. O-RING

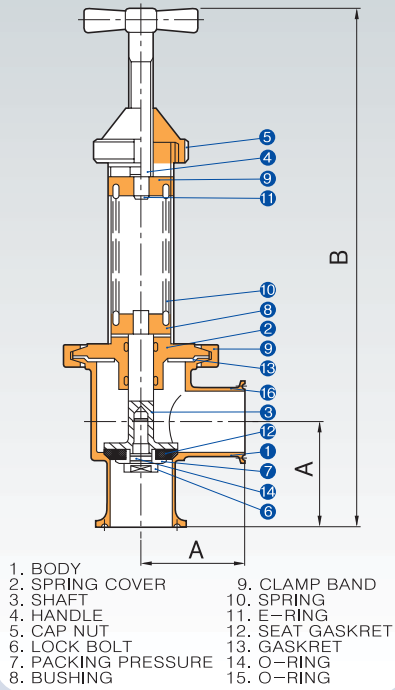
SIZE	1S	1.5S	2S	2.5S	3S
C		373	416	456	488
D		290	309	341	356

HAESLING

MANUAL VALVES

RELIEF VALVE(HANDLE)

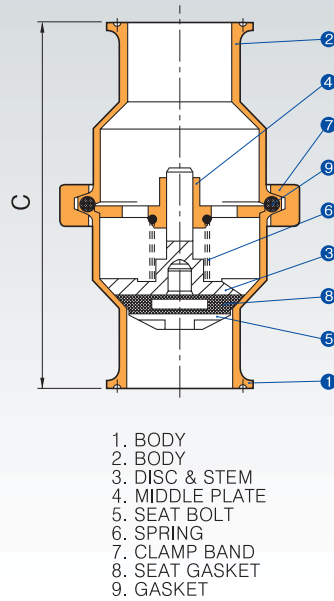
HS-RHV-2FERRULE



SIZE	1S	1.5S	2S	2.5S	3S	4S
A		70	82	105	110	—
B		70	82	105	110	150
C		209	230	265	288	395

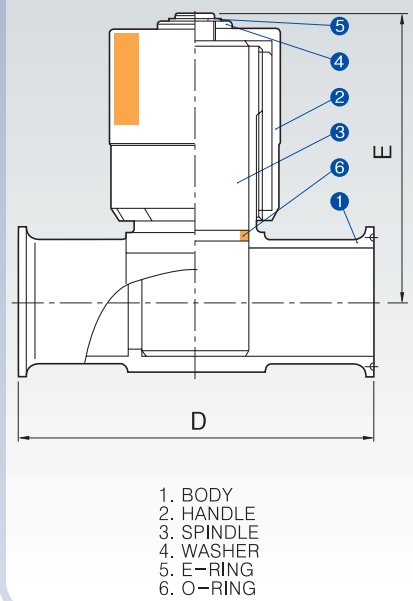
CHECK VALVE

HS-CHV-2FERRULE



MICRO VALVE

HS-MCV-2FERRULE

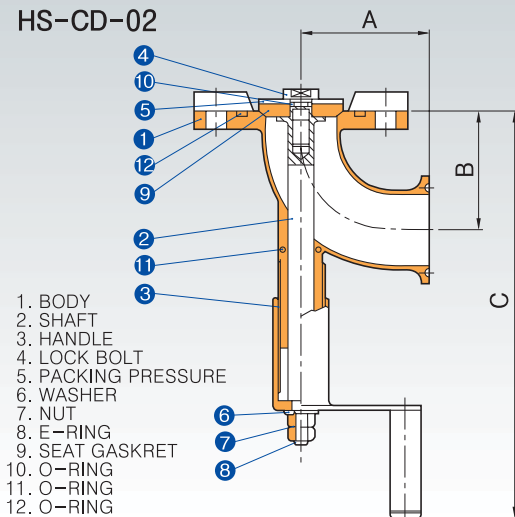


SIZE	1S	1.5S	2S	2.5S	3S	4S
D	130	137	165	195	200	240
E	130	140	164	190		

SEQUENCE VALVES

CD-TANK VALVE

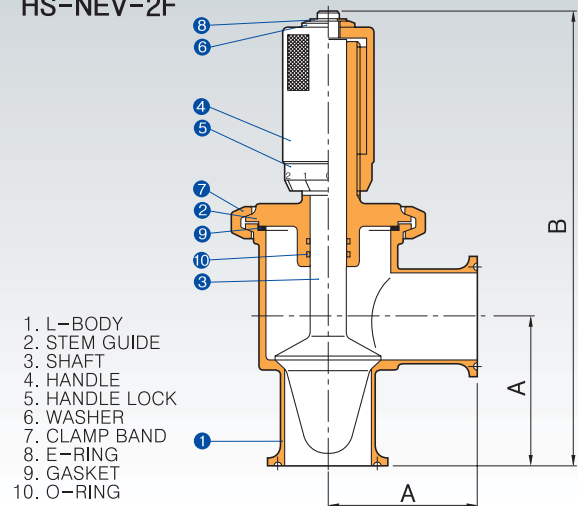
HS-CD-02



SIZE	1S	1.5S	2S	2.5S	3S	4S
A	55	70	82	105	110	—
B	44	61	71	92	95	—
C	284	302	330	392	427	—

NEEDLE VALVE

HS-NEV-2F



SIZE	1S	1.5S	2S	2.5S	3S	4S
A		70	82	105	110	150
B		209	230	265	288	395

위생배관 / SANITARY PIPING PIPES AND WELD FITTINGS



● **재 질** STS304, STS316, STS316L

● **표면거칠기**

내면 : $Ra \leq 0.64 \mu m$, 외면 : $Ra \leq 0.64 \mu m$

● **위생적 요건**

1. 용접형 배관부속을 제작하거나 사용함에 있어 부식을 일으킬 수 있는 스테인레스가 아닌 다른 재료의 제품과의 접촉이 없도록 생산합니다.
2. 용접형 배관부속 내부는 매끄럽고 깨끗해야 하며 유해한 흠이나 홀 등이 없도록 생산합니다.

● **용 도**

용접형 배관부속은 세네타리 파이프를 용접으로 연결할때 쓰입니다.

● **Material** STS304, STS316, STS316L

● **Surface Roughness**

Inner Surface : $Ra \leq 0.64 \mu m$, Outward Surface : $Ra \leq 0.64 \mu m$

● **Hygienic requirement**

1. Care shall be taken that any nonferrous metals or their alloys coming into contact with the bends and tees during manufacture do not leave deposits which will be harmful during subsequent fabrication and use.
2. The interior surface of the bends and tees shall be clean and smooth. It shall be free from surface defects. Inclusions and longitudinal grooving

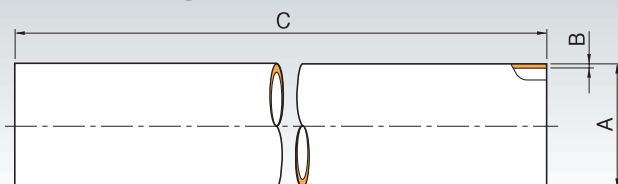
● **Applications**

The weld pipe fittings used for the weld connection of sanitary pipe.

PIPES AND WELD FITTINGS

SANITARY PIPES

HS-TBSP

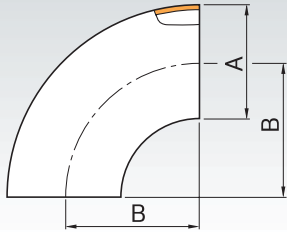


SIZE	A	B	C
1S	25.4	1.2	6000
1.5S	38.1	1.2	6000
2S	50.8	1.5	6000
2.5S	63.5	1.5	6000
3S	76.3	2	6000
4S	101.6	2	6000

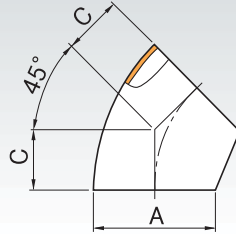
HAESUNG

PIPES AND WELD FITTINGS

90° ELBOW -WELD-
HS-90EL-W

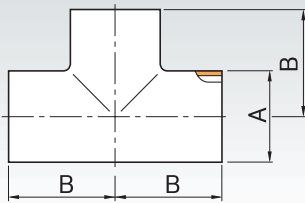


45° ELBOW -WELD-
HS-45EL-W

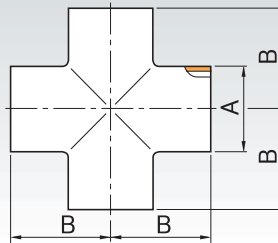


SIZE	A	B	C
1S	25.4	35	14.6
1.5S	38.1	50	20.7
2S	50.8	60	24.9
2.5S	63.5	79	32.7
3S	76.3	82	34
4S	101.6	134	55.7

TEE -WELD-
HS-TEE-W

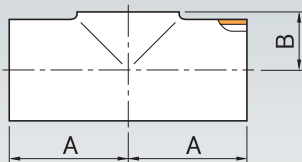


CROSS TEE -WELD-
HS-CRO-W

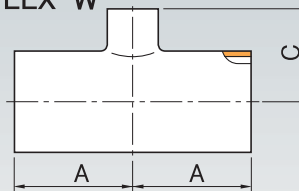


SIZE	A	B
1S	25.4	35
1.5S	38.1	50
2S	50.8	60
2.5S	63.5	79
3S	76.3	82
4S	101.6	134

LOW NECK TEE -WELD-
HS-NETTE-W

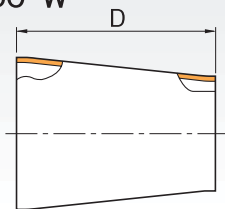


REDUCING TEE -WELD-
HS-TEEX-W

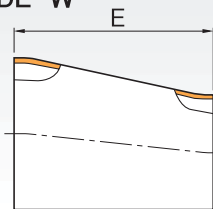


SIZE	A	B	C	D	E
1.5S×1S	50	21.6	40	67	63.7
2S×1S	60	27.9	47.6	67	70
2S×1.5S	60	27.9	58.6	67	62.5
2.5S×1S	79	34.3	52.3	67	71.5
2.5S×1.5S	79	34.3	63.3	67	70
2.5S×2S	79	34.3	69.3	67	61.3
3S×1.5S	82	40.7	70	67	71.5
3S×2S	82	40.7	76	67	70
3S×2.5S	82	40.7	90	67	60
4S×2S	134	53.3	97	103	108
4S×2.5S	134	53.3	113	103	106.5
4S×3S	134	53.3	116	103	91.4

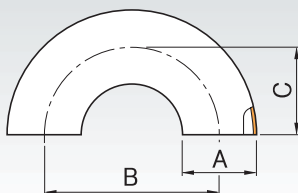
CONCENTRIC REDUCER -WELD-
HS-RDC-W



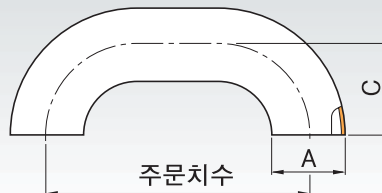
ECCENTRIC REDUCER -WELD-
HS-RDE-W



SWING BEND -WELD-
HS-TEE-W



STRAIGHT SWING BEND -WELD-
HS-CRO-W



SIZE	A	B	C
1S	25.4	70	35
1.5S	38.1	100	50
2S	50.8	120	60
2.5S	63.5	158	79
3S	76.3	164	82
4S	101.6	268	134

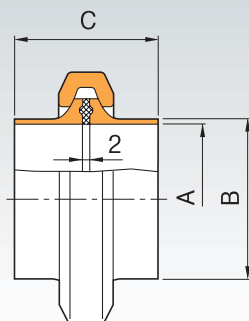
클램프형 배관부속 / CLAMP TYPE FITTING



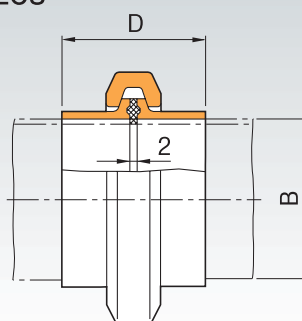
CLAMP TYPE FITTINGS(IDF/ISO)

- IDF/ISO standard clamp union joints are assembled by sandwiching and clamping the gasket between the ferrule.
- The welded clamped union is joined to the sanitary pipe by argon arc TIG welding.
Working pressure is 10kg/cm² or less.
- The expanded clamped union is used to expand a pipe by a tube expander for subsequent joining of the joint.
- Working pressure is 5kg/cm² or less.
The Fitting is tightened manually and no spanner is need.

CLAMP UNION -WELD- HS-WCU



CLAMP UNION -EXPAND- HS-ECU



SIZE	A	B	C	D
1/2S	9.4	12.75	28	28
3/4S	15.7	19.05	28	28
1S	23	25.4	42	42
1.5S	35.7	38.1	42	42
2S	47.8	50.8	46	46
2.5S	60.5	63.5	54	54
3S	72.3	76.3	58	58
4S	97.6	101.6	58	58

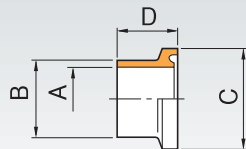
HAESUNG

CLAMP TYPE FITTINGS(IDF/ISO)

- IDF/ISO standard clamp union joints are assembled by sandwiching and clamping the gasket between the ferrule.
- The welded clamped union is joined to the sanitary pipe by argon arc TIG welding. Working pressure is 10kgf/cm² or less.
- The expanded clamped union is used to expand a pipe by a tube expander for subsequent joining of the joint.
- Working pressure is 5kgf/cm² or less. The Fitting is tightened manually and no spanner is need.

FERRULE -WELD-(1/2S~3/4S)

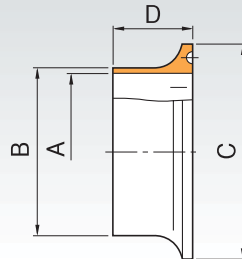
HS-CLF-C-02



SIZE	A	B	C	D
1/2S	9.4	12.7	25	12.7, 21.5, 28.6
3/4S	15.7	19	25	12.7, 21.5, 28.6

FERRULE -WELD-(1S~4S)

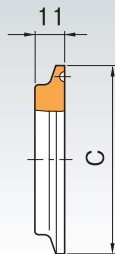
HS-CLF-W-01



SIZE	A	B	C	D
1S	23	25.4	50.5	20
1.5S	35.7	38.1	50.5	20
2S	47.8	50.8	64	22
2.5S	60.5	63.5	77.5	26
3S	72.3	76.3	91	28
4S	97.6	101.6	119	28

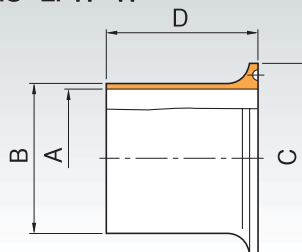
FERRULE BLANK

HS-CLF-C



LONG FERRULE -WELD-(1S~4S)

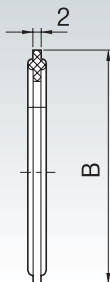
HS-LFW-W



SIZE	A	B	C	D
1/2S	9.4	12.7	25	28.6
3/4S	15.7	19	25	28.6
1S	23	25.4	50.5	50
1.5S	35.7	38.1	50.5	50
2S	47.8	50.8	64	50
2.5S	60.5	63.5	77.5	55
3S	72.3	76.3	91	55
4S	97.6	101.6	119	60

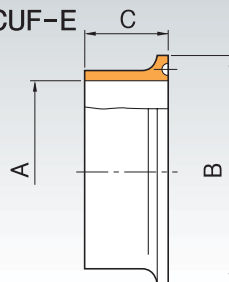
FERRULE GASKET

HS-GS-C



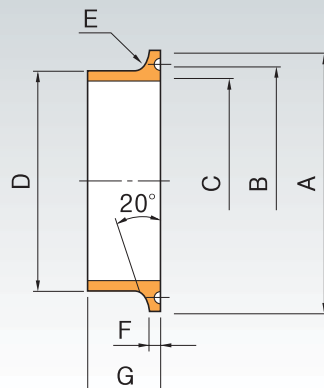
FERRULE -EXPAND-

HS-CUF-E



SIZE	A	B	C
1S	25.4	50.5	20
1.5S	38.3	50.5	20
2S	51	64	22
2.5S	63.8	77.5	26
3S	76.6	91	28
4S	102	119	28

SUS FERRULE -15A~300A-



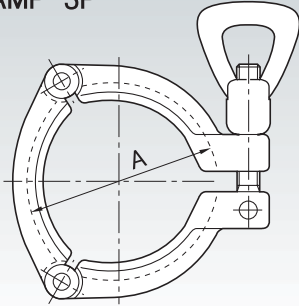
SIZE	A	B	C	D	E	F	G
15A	50.5	43.5	16.7	21.7	R5	2.8	20
20A	50.5	43.5	21.2	27.2	R6	2.8	20
25A	50.5	43.5	28	34	R4	2.8	20
32A	50.5	43.5	36.7	42.7	R1	2.8	20
40A	64	56.5	42.6	48.6	R4	2.8	20
50A	77.5	70.5	54.5	60.5	R4	2.8	22
65A	91	83.5	70.3	76.3	R4	2.8	28
80A	106	96.5	83.1	89.1	R4	2.8	28
100A	130	122	108.3	114.3	R4	2.8	28
125A	163.5	145.5	133.8	139.8	R3+	5.1	30
150A	185	174	159.2	165.2	R3+	5.6	30
200A	240	225	210.3	216.3	R3+	5.2	30
250A	296	275.7	259.4	267.4	R5	7.5	40
300A	325	325.7	309.5	318.5	R5	7.5	40

HAESUNG

CLAMP TYPE FITTINGS(IDF/ISO)

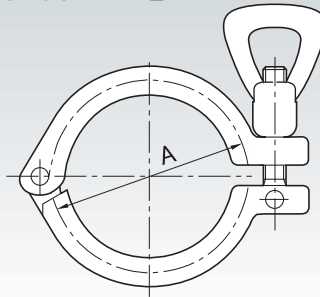
CLAMP BAND (3PCS)

HS-CLAMP-3P



CLAMP BAND (2PCS)

HS-CUAMP-2P

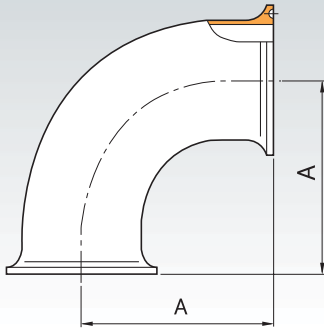


SIZE	A
1S	56
1.5S	56
2S	70
2.5S	84
3S	98
4S	126
4.5S	138
5S	172
6S	193
8S	248

★10S,12S 주문생산이 가능합니다.

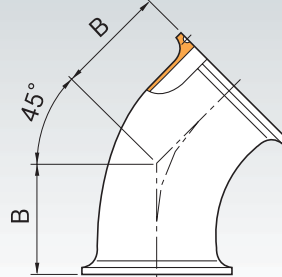
90° ELBOW -FERRULE-

HS-90EL-2F



45° ELBOW -FERRULE-

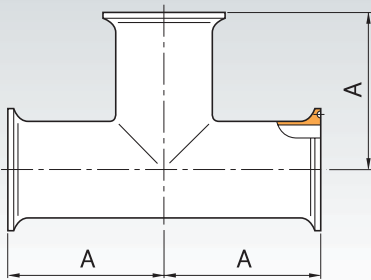
HS-45EL-2F



SIZE	A	B
1S	55	34.5
1.5S	70	40.7
2S	82	46.9
2.5S	105	58.7
3S	110	62
4S	162.5	83.7

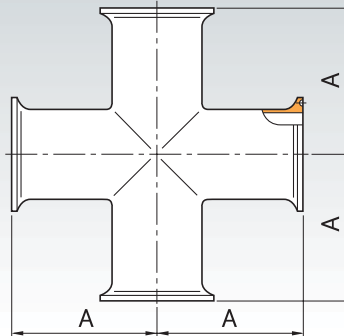
TEE -FERRULE-

HS-TEE-3F



CROSS -FERRULE-

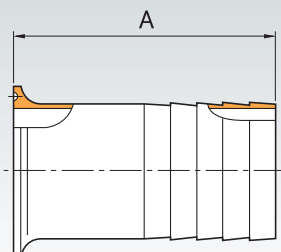
HS-CROS-4F



SIZE	A
1S	55
1.5S	70
2S	82
2.5S	105
3S	110
4S	162.5

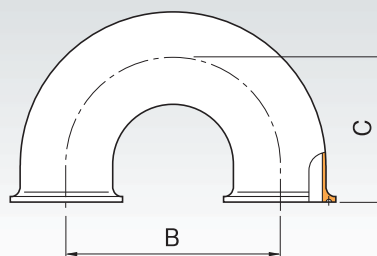
HOSE COUPLING -FERRULE-

HS-HOCG-1F



SWING BEND -FERRULE-

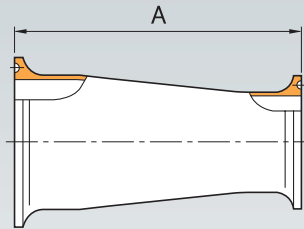
HS-180BEAN-2F



SIZE	A	B	C
1S	80	70	55
1.5S	100	100	70
2S	100	120	82
2.5S	100	158	105
3S	100	164	110
4S	120	269	162.5

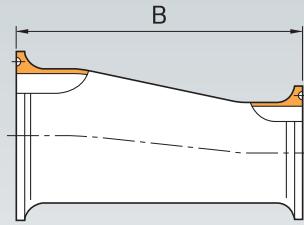
CONCENTRIC REDUCER -FERRULE-

HS-RDC-2F



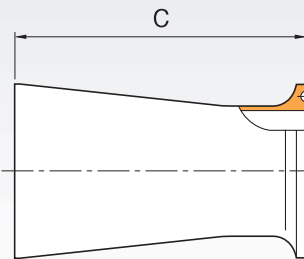
ECENTRIC REDUCER -FERRULE-

HS-RDE-2F



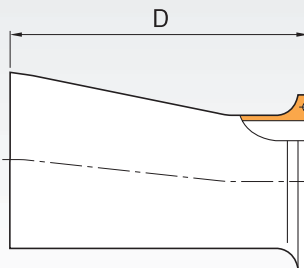
CONCENTRIC REDUCER -WELD FERRULE-

HS-RDC-1F



ECENTRIC REDUCER -WELD FERRULE-

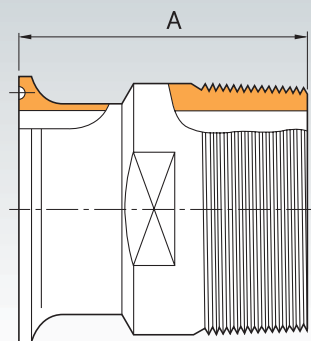
HS-RDE-1F



SIZE	A	B	C	D
1.5S×1S	107	103.7	87	83.7
2S×1S	109	112	87	90
2S×1.5S	109	104.5	87	82.5
2.5S×1S	113	117.5	87	91.5
2.5S×1.5S	113	116	87	90
2.5S×2S	115	109.3	89	83.3
3S×1.5S	115	119.5	87	93.5
3S×2S	117	120	89	92
3S×2.5S	121	114	93	86
4S×2S	153	158	125	125
4S×2.5S	157	160.5	129	132.5
4S×3S	159	147.4	131	119.4

FERRULE ADAPTER

HS-ADC-01

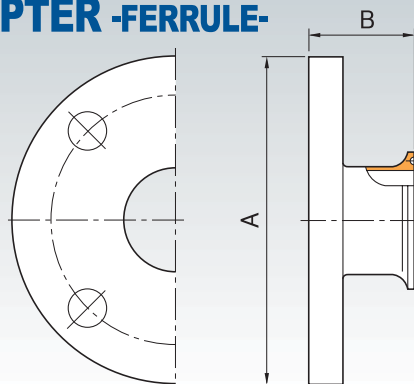


SIZE	A
1S×PT3/8"	45
1S×PT1"	45
1.5S×PT1"	45
1.5S×PT1 1/4"	45
1.5S×PT1 1/2"	45
2S×PT1 1/2"	55
2S×PT2"	55
2.5S×PT2"	60
3S×PT2 1/2"	60

★상기사양 외의 제품도 생산합니다

FLANGE ADAPTER -FERRULE-

HS-FAD-1F



SIZE	A	B
1S×20A	100	60
1.5S×32A	135	60
2S×40A	140	60
2.5S×50A	155	60
3S×65A	175	80
4S×100A	210	80

★상기사양 외의 제품도 생산합니다

나사형 배관부속 / THREADED COUPLINGS PIPE FITTINGS



● **재 질** STS304, STS316, STS316L

● **표면거칠기**

내면 : $Ra \leq 0.64 \mu m$, 외면 : $Ra \leq 0.64 \mu m$

● **제품특성**

1. 나사형 커플링인 메일과 라이너는 세니타리 파이프와 함께 사용할 수 있도록 생산됩니다.
2. 용접용과 확관용 두가지 종류가 있으며 파이프와의 연결은 아래와 같습니다.
 - 용접용 : 세니타리 파이프에 막대기 용접으로 연결한다.
 - 확관용 : 원칙적으로 세니타리 파이프를 메일이나 라이너에 집어 넣고 확관하여 연결하나 최근에는 용접을 하여 연결한다.
3. 사용압력은 $10kg/cm^2G$ 또는 그 이하입니다.
4. 전용스패너를 이용하여 체결합니다.
5. 가스켓 : NBR, SILICON, TEFLON, EPDM
6. 제품의 규격은 ISO(IDF), DIN, SMS, 3A, BSI등이 있습니다.

● **위생적 요건**

1. 귀사의 생산품과 닿는 나사형 파이프휘팅류들의 모든 표면은 자동세척 또는 분해하여 하는 수동세척에도 손쉽게 세척이 될 수 있도록 쉽게 분해되며 탈착되는 부위는 쉽게 떨어집니다.
2. 당사 휘팅의 내면에는 유해한 흠이나 홀 등이 없도록 생산합니다.

● **Material** STS304, STS316, STS316L

● **Surface Roughness**

Inner Surface : $Ra \leq 0.64 \mu m$, Outward Surface : $Ra \leq 0.64 \mu m$

● **Product Characteristic**

1. Male parts and liners in stainless steel threaded couplings for the food industry are manufacturing intended to be used with stainless steel tubes specified in ISO 2037.
2. This fittings has two types for the welded and expanding type.
 - Welded type : This fittings can be attached to the pipe ends by butt weleing.
 - Expanding : This fittings can be attached to the pipe ends by expanding. but, recentl it's can be attached to the life ends by welding.
3. Operating pressures is $10kg/cm^2G$ or lower.
4. This fittings tightening by use of a hexspanner.
5. Gasket : NBR, SILICON, TEFLON, EPDM
6. The standards of coupling has ISO(IDF), DIN, SMS, 3A, BSI, ETC...

● **Hygienic requirement**

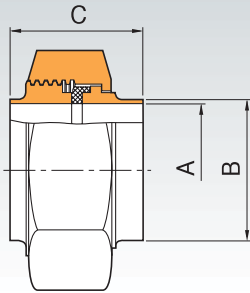
1. All surfaces of the coupling in contact with the foodstuff can be easily accessible for cleaning when disassembled. Removable parts can be readily demountable.
2. The interior surface of welded-type male parts and liners can be clean and smooth. It can be free from surface defects and inclusion.

HAESUNG

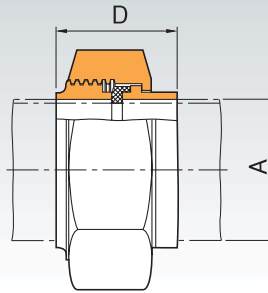
SCREW UNION FITTINGS(IDF/ISO)

- IDF/ISO standard threaded union joints use ACME threads.
The Fitting tightened by use of AI spanner
- The welded threaded union is joined to the sanitary pipe by argon arc TIG welding.
Working pressure is 10kg/cm² or less.
- The expanded threaded union is used to expand a pipe by a tube expander for subsequent joining of the joint.
Working pressure is 10kg/cm² or less.

HEX UNION -WELD-

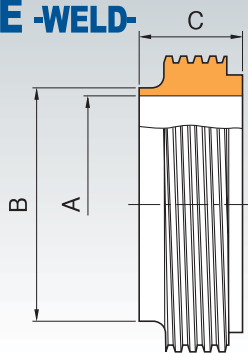


HEX UNION -EXPAND-

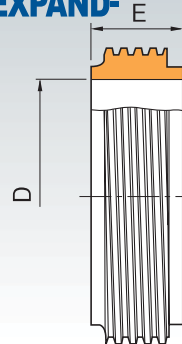


SIZE	A	B	C	D
1S	23	25.4	44	44
1.5S	35.7	38.1	44	44
2S	47.8	50.8	48	48
2.5S	60.5	63.5	56	56
3S	72.3	76.3	60	60
4S	97.6	101.6	60	60

MALE -WELD-

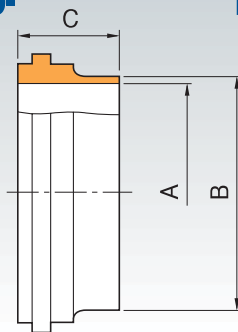


MALE -EXPAND-

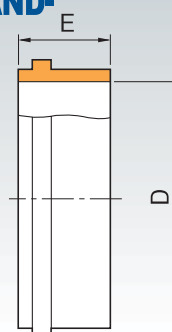


SIZE	A	B	C	D	E
1S	23	25.4	20	25.5	20
1.5S	35.7	38.1	20	38.3	20
2S	47.8	50.8	22	51	22
2.5S	60.5	63.5	26	63.8	25
3S	72.3	76.3	28	76.6	28
4S	97.6	101.6	28	102	28

LINER -WELD-

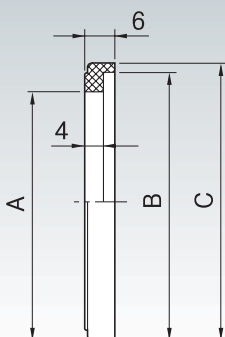


LINER -EXPAND-



SIZE	A	B	C	D	E
1S	23	25.4	20	25.5	20
1.5S	35.7	38.1	20	38.3	20
2S	47.8	50.8	22	51	22
2.5S	60.5	63.5	26	63.8	25
3S	72.3	76.3	28	76.6	28
4S	97.6	101.6	28	102	28

HEX GASKET



SIZE	A	B	C
1S	23	25.4	33
1.5S	35.7	38.1	46.5
2S	47.8	50.8	60
2.5S	60.5	63.5	74
3S	72.3	76.3	87
4S	97.6	101.6	114

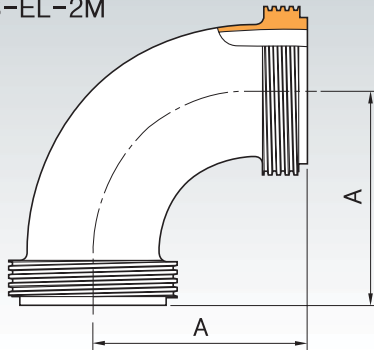
LINER BLANK



SIZE	A
1S	11
1.5S	11
2S	11
2.5S	11
3S	11
4S	12

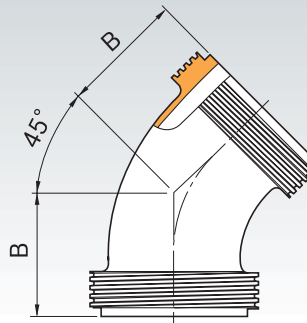
90° ELBOW -MALE-

HS-EL-2M



45° ELBOW -MALE-

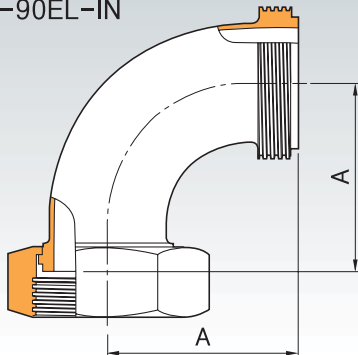
HS-45EL-2M



SIZE	A	B
1S	55	34.5
1.5S	70	40.7
2S	82	46.9
2.5S	105	58.7
3S	110	62
4S	162.5	83.7

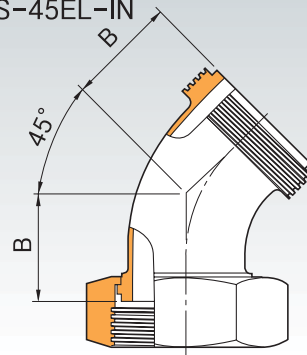
90° ELBOW -MALE, NUT-

HS-90EL-IN



45° ELBOW -MALE-

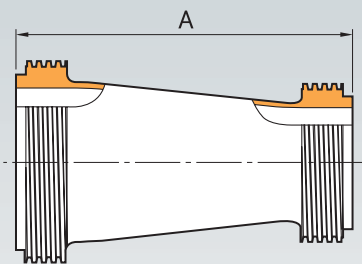
HS-45EL-IN



SIZE	A	B
1S	55	34.5
1.5S	70	40.7
2S	82	46.9
2.5S	105	58.7
3S	110	62
4S	162.5	83.7

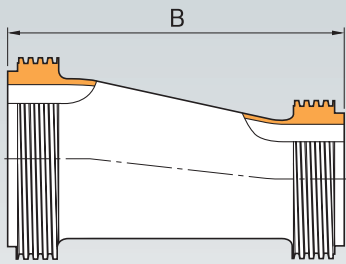
CONCENTRIC REDUCER -MALE-

HS-RDC-2MC



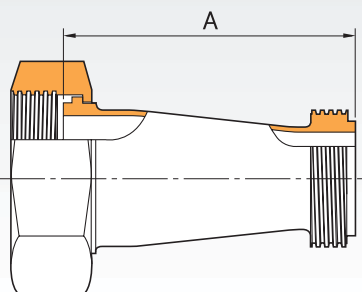
ECCENTRIC REDUCER -MALE-

HS-RDC-2ME



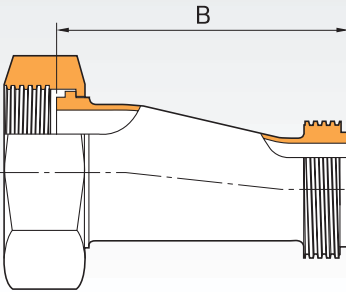
CONCENTRIC REDUCER -NUT, MALE-

HS-RDC-INC



ECCENTRIC REDUCER -NUT-

HS-RDC-INE



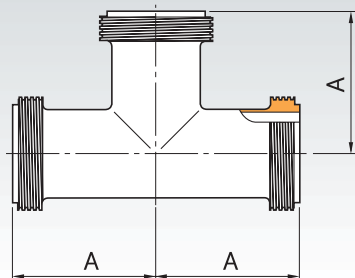
SIZE	A	B
1.5S×1S	107	103.7
2S×1S	109	112
2S×1.5S	109	104.5
2.5S×1S	113	117.5
2.5S×1.5S	113	116
2.5S×2S	115	109.3
3S×1.5S	115	119.5
3S×2S	117	120
3S×2.5S	121	114
4S×2S	153	158
4S×2.5S	157	160.5
4S×3S	159	147.4

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SCREW UNION FITTINGS(IDF/ISO)

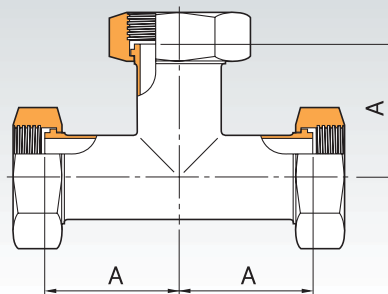
TEE -MALE-

HS-TEE-3M



TEE -NUT-

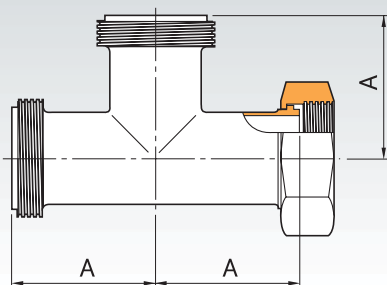
HS-TEE-3N



SIZE	A
1S	55
1.5S	70
2S	82
2.5S	105
3S	110
4S	162.5

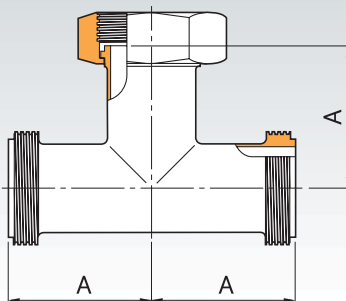
TEE -MALE, MALE, NUT-

HS-TEE-1N-01



TEE -MALE, NUT, MALE-

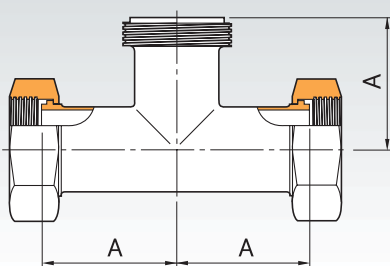
HS-TEE-1N-02



SIZE	A
1S	55
1.5S	70
2S	82
2.5S	105
3S	110
4S	162.5

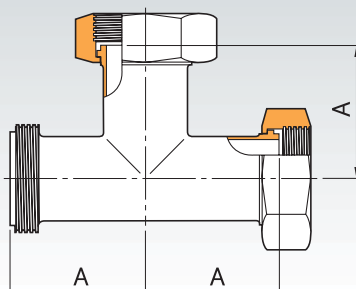
TEE -NUT, MALE, NUT-

HS-TEE-2N-01



TEE -MALE, NUT, NUT-

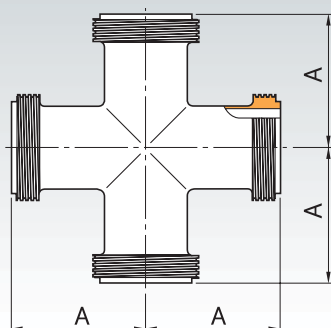
HS-TEE-2N-02



SIZE	A
1S	55
1.5S	70
2S	82
2.5S	105
3S	110
4S	162.5

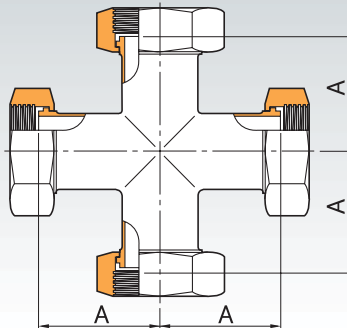
CROSS -MALE-

HS-TEE-4M



CROSS -NUT-

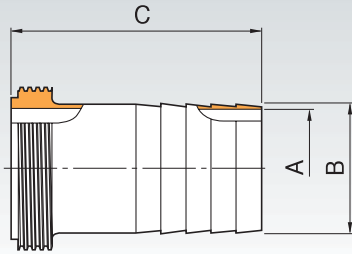
HS-TEE-4N



SIZE	A
1S	55
1.5S	70
2S	82
2.5S	105
3S	110
4S	162.5

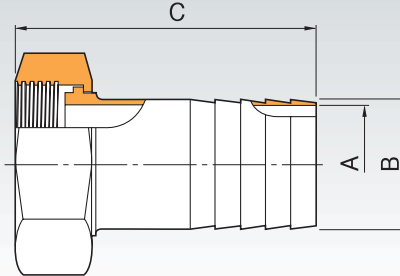
HOSE COPLING -MALE-

HS-HOC-IM



HOSE COPLING -NUT-

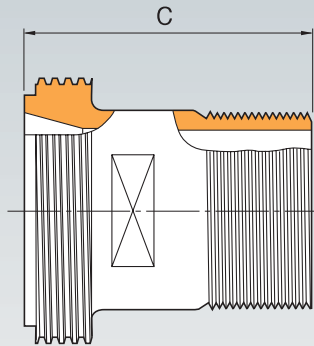
HS-HOC-IN



SIZE	A	B	C
1S	23	25.4	80
1.5S	35.7	38.1	100
2S	47.8	50.8	100
2.5S	60.5	63.5	100
3S	72.3	76.3	100
4S	97.6	101.6	120

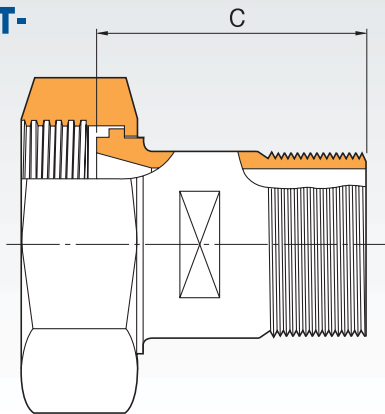
PIPE ADAPTER -MALE-

HS-ADT-IM-02



PIPE ADAPTER -NUT-

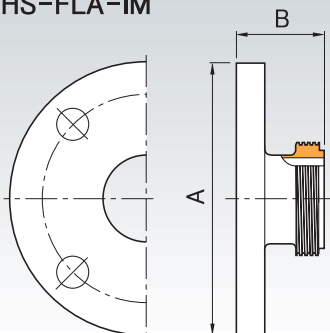
HS-ADT-IN-02



SIZE	A, B	C
1S×PT3/8"	B	50
1S×PT1"	A	50
1.5S×PT1"	B	50
1.5S×PT1 1/2"	A	50
2S×PT1 1/4"	B	60
2S×PT1 1/2"	B	60
2S×PT2"	A	60
2.5S×PT2"	B	70
3S×PT2 1/2"	B	70

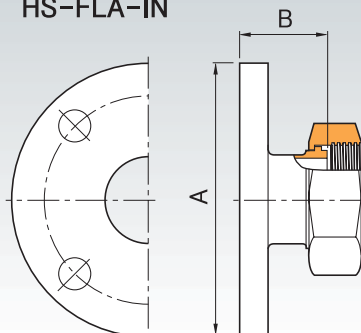
FLANGE ADAPTER -MALE-

HS-FLA-IM



FLANGE ADAPTER -NUT-

HS-FLA-IN

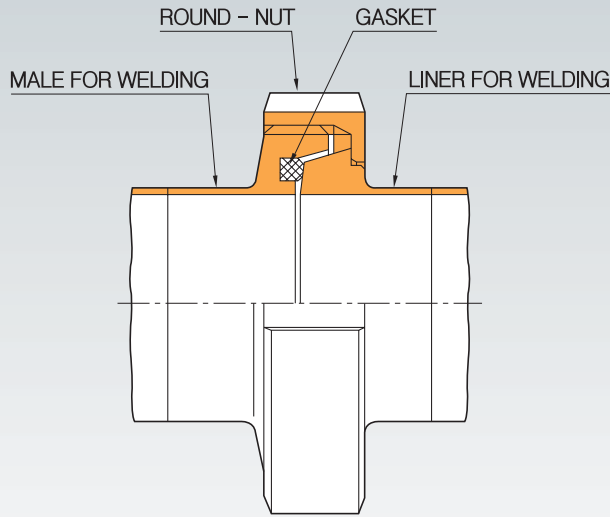


SIZE	A	B
1S×20A	100	60
1.5S×32A	135	60
2S×40A	140	60
2.5S×50A	155	60
3S×65A	175	60
4S×100A	210	60

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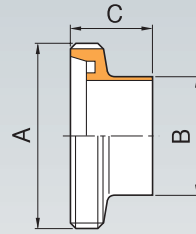
DIN UNION FITTINGS(IDF/ISO)

UNION FOR WELDING



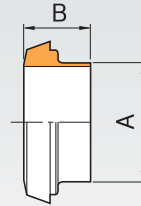
- DIN 유니온의 둥근나사와 원형너트로 이루어지며 Male과 Liner의 용접부위는 DIF pipe치수와 동일하게 제작됩니다. 주문에 의해 DIN pipe치수로도 제작됩니다.
- DIN union consisted with round nut and male of round threads. As well as, male and liner ends were manufacturing same as ISO(IDF) size. When ordering DIN size, we could manufacturing available of DIN pipe size.

MALE -WELD-



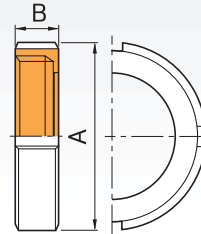
SIZE	A	B	C
1S	52×1/6	25.4	29
1.5S	65×1/6	38.1	29
2S	78×1/6	50.8	30
2.5S	95×1/6	63.5	30
3S	110×1/6	76.3	35
4S	130×1/4	101.6	35

LINER -WELD-



SIZE	A	B
1S	25.4	22
1.5S	38.1	26
2S	50.8	28
2.5S	63.5	30
3S	76.3	35
4S	101.6	35

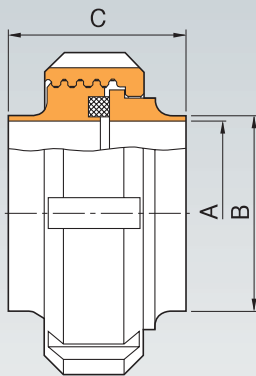
ROUND NET



SIZE	A	B
1S	63	21.5
1.5S	78	21.5
2S	92	21.5
2.5S	112	25.7
3S	127	30
4S	148	31

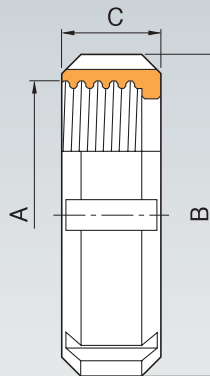
SCREW UNION FITTINGS(IDF/ISO)

SMS UNION -WELD-



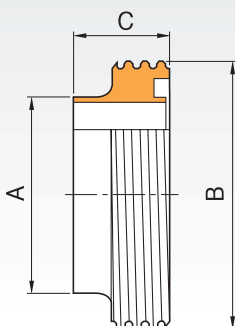
SIZE	A	B	C
1S	23	25.4	33.5
1.5S	35.7	38.1	41.5
2S	47.8	50.8	41.5
2.5S	60.5	63.5	50.5
3S	72.3	76.3	55.5
4S	97.6	101.6	71.5

SMS ROUND NET



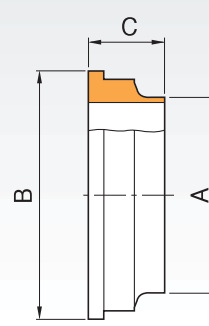
SIZE	A	B	C
1S	RD40-6	51	20
1.5S	RD60-6	74	25
2S	RD70-6	84	26
2.5S	RD85-6	100	30
3S	RD98-6	114	32
4S	RD132-6	154	45

SMS MALE -WELD-



SIZE	A	B	C
1S	25.4	RD40-6	15
1.5S	38.1	RD60-6	20
2S	50.8	RD70-6	20
2.5S	63.5	RD85-6	24
3S	76.3	RD98-6	24
4S	101.6	RD132-6	35

SMS LINER -WELD-



SIZE	A	B	C
1S	25.4	35.5	17
1.5S	38.1	55	20
2S	50.8	65	20
2.5S	63.5	80	25
3S	76.3	93	30
4S	101.6	127	35

악세서리 / SANITARY ACCESSORIES



● **재 질** STS304, STS316, STS316L

● **표면거칠기**

내면 : $Ra \leq 0.64 \mu m$, 외면 : $Ra \leq 0.64 \mu m$

● **제품특성**

1. 멀티웨이판넬
 - 이것은 복잡한 공정라인을 최소화하여 줍니다.
 - 공정라인과 자동세척라인을 적절하게 변환시켜 주는 것이 중요합니다.
 - 삽도된 규격형과 그외의 다른형도 주문에 의해 가능합니다.
2. 스트레이너
이것은 몸통 안쪽에 타공된 필터와 매쉬필터망으로 구성되어 있으며 매쉬필터망은 100매쉬보다 크거나 작게 할 수 있습니다.
3. 사이트 글래스
이것은 폭넓은 적용범위와 설치가 간편합니다.

● **위생적 요건**

1. 귀사의 생산품과 닿는 중앙부속 기기류 등의 모든 표면은 자동세척 또는 분해하여 하는 수동세척에도 손쉽게 세척이 될 수 있도록 쉽게 분해되며 탈착되는 부위는 쉽게 떨어집니다.
2. 당사 부속기기류의 내면에는 유해한 흠이나 홀 등이 없도록 생산합니다.

● **Material** STS304, STS316, STS316L

● **Surface Roughness**

Inner Surface : $Ra \leq 0.64 \mu m$, Outward Surface : $Ra \leq 0.64 \mu m$

● **Product Characteristic**

1. Multway panel
 - Multway panel minimizes the complication of a process line.
 - Panel is essential for proper change—over between the process line and the cip line.
 - Various tps of multiway panels are available other than illustrated standard and combination other.
2. Tube strainer
The stariner consisted of an inner cylinder with punched stainless steel sheet(round hole) and a filtering mesh, As well as, the mesh net is available in a range of grater or lower than 100 mesh.
3. Sight glass
Sight glass easily placed for multi purpose usage.

● **Hygienic requirement**

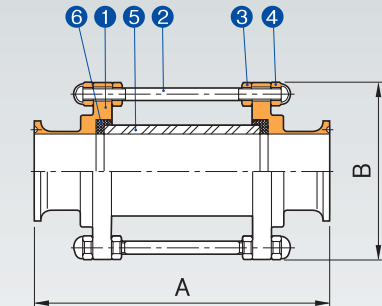
1. All surfaces of the JOONGANG's accessories in contact with the foodstuff can be easily accessible for cleaning, either by cleaning in place methods or by manual cleaning when disassembled. removable parts can be readily demountable.
2. The interior surface of JOONGANG's accessories can be clean and smooth. It can be free surface defects and inclusion.

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SANITARY ACCESSORIES

SIGHT GLASS

HS-SGS-2 FERRULE

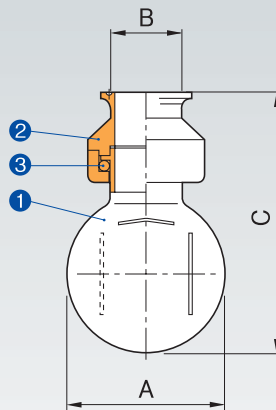


- 1 ADAPTER
- 2 BOLT
- 3 TUBE GLASS
- 4 GASKET
- 5 NUT

SIZE	A	B
1S	170	80
1.5S	170	95
2S	185	115
2.5S	185	130
3S	195	140
4S	195	165

SPRAY BALL

HS-SPB1 FERRULE

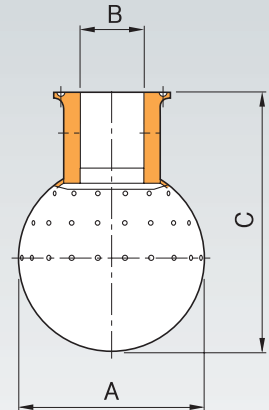


- 1 SPRAY BALL
- 2 BOSS
- 3 BALL

SIZE	A	B	C
1S	53	25.4	160
1.5S	53	38.1	170
2S	63	50.8	190

C.I.P BALL

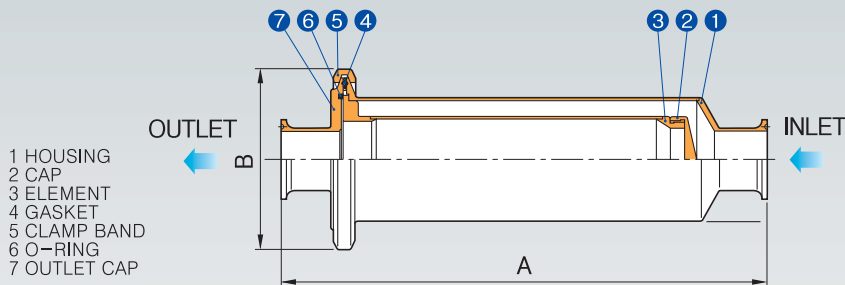
HS-C.I.P FERRULE



SIZE	A	B	C
1S	63	25.4	95
1.5S	75	38.1	100
2S	90	50.8	125
2.5S	105	63.5	140

TUBE STRAINER (SI-TYPE)

HS-TSS-2 FERRULE

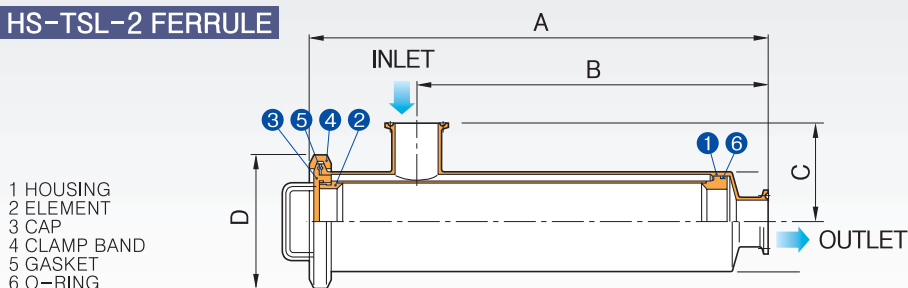


- 1 HOUSING
- 2 CAP
- 3 ELEMENT
- 4 GASKET
- 5 CLAMP BAND
- 6 O-RING
- 7 OUTLET CAP

SIZE	A	B
1S	300	121
1.5S	300	121
2S	400	145
2.5S	400	145
3S	500	145
4S	600	210

TUBE STRAINER (SL-TYPE)

HS-TSL-2 FERRULE



- 1 HOUSING
- 2 ELEMENT
- 3 CAP
- 4 CLAMP BAND
- 5 GASKET
- 6 O-RING

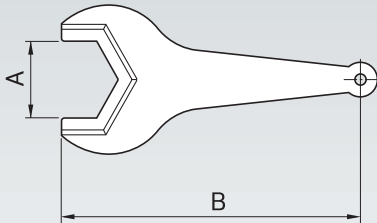
SIZE	A	B	C	D
1S	350	250	88	121
1.5S	350	250	88	121
2S	450	350	100	135
2.5S	500	400	117	145
3S	600	500	117	145
4S	650	550	142.6	210

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SANITARY ACCESSORIES

SPANNER -HEX NUT용-

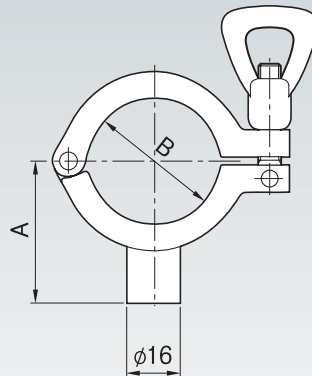
HS-HSPA



SIZE	A	B
1S	47	210
1.5S	58	290
2S	78	320
2.5S	93	340
3S	107	360
4S	132	400

PIPE HANGER

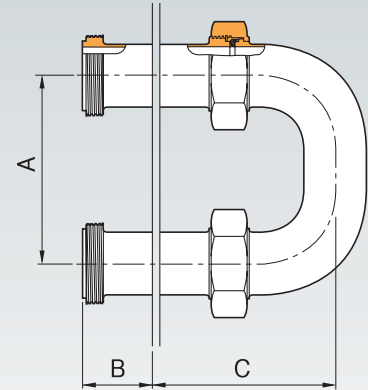
HS-HAN-01



SIZE	A	B
1S	40	25.4
1.5S	45	38
2S	53	51
2.5S	58	63.5
3S	65	76.5
4S	75	101.6

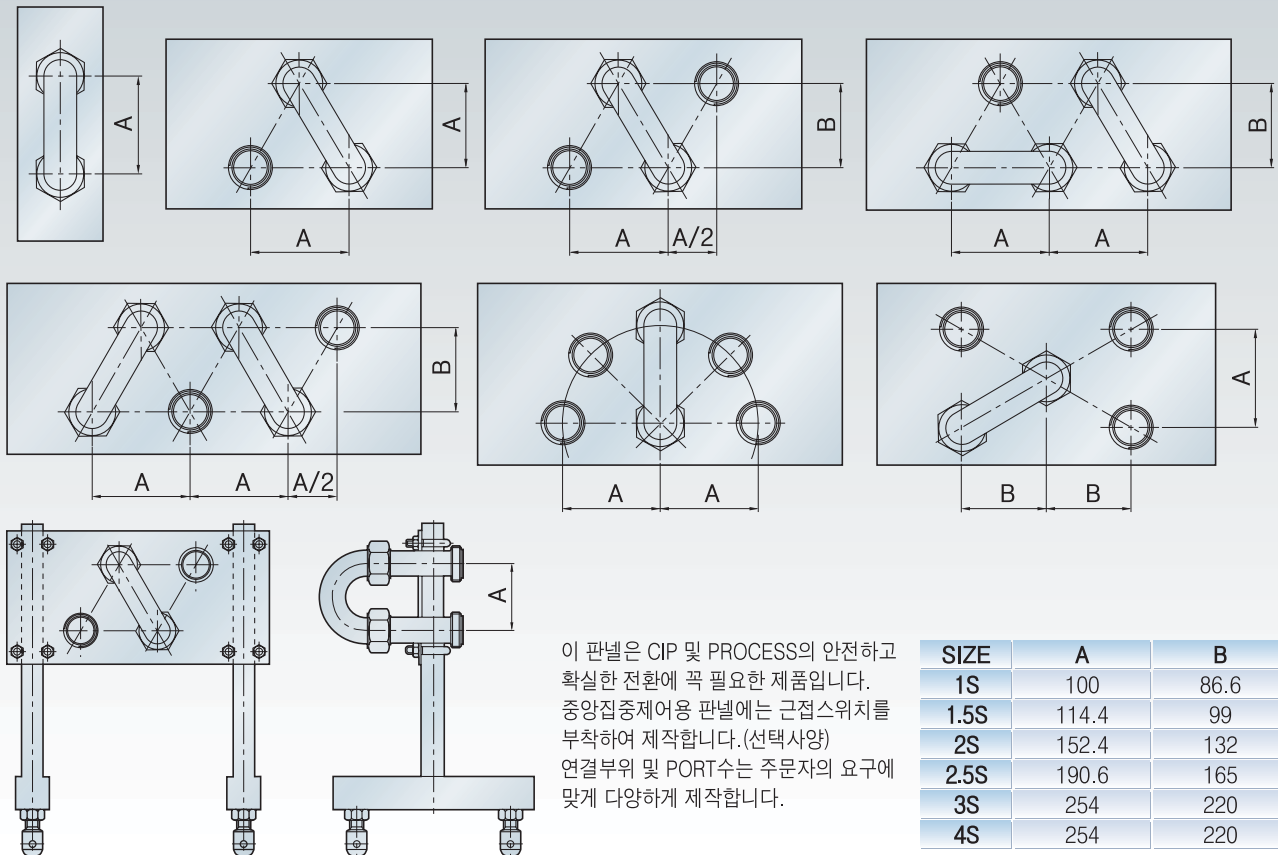
SWING BEND

HS-SWB-H형



SIZE	A	B	C
1S	100	60	119
1.5S	114.4	60	134
2S	152.4	60	146
2.5S	190.6	60	189
3S	254	60	174
4S	254	60	222

MULTIWAY PANEL

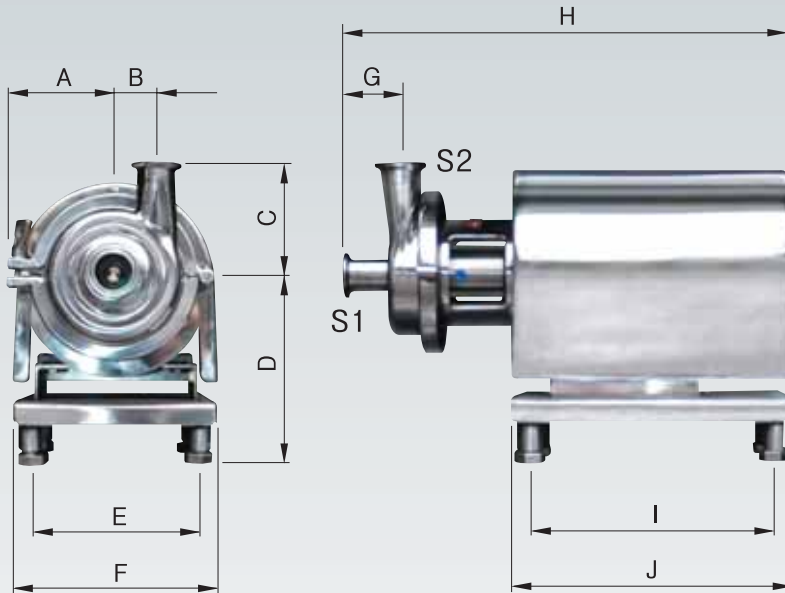


이 패널은 CIP 및 PROCESS의 안전하고 확실한 전환에 꼭 필요한 제품입니다. 중앙집중제어용 패널에는 근접스위치 부속하여 제작합니다.(선택사항) 연결부위 및 PORT수는 주문자의 요구에 맞게 다양하게 제작합니다.

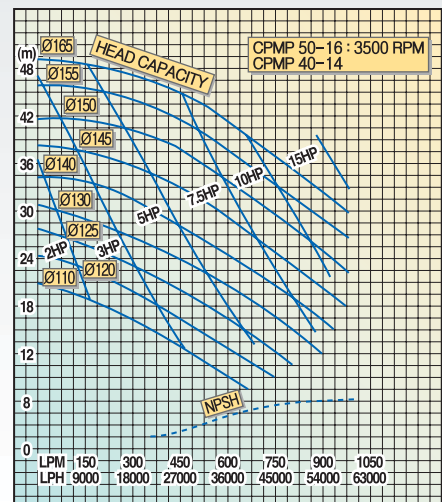
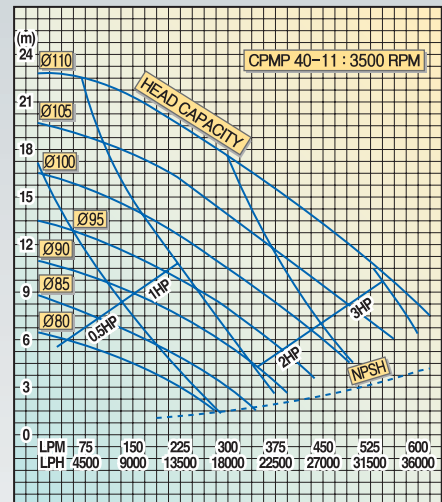
SIZE	A	B
1S	100	86.6
1.5S	114.4	99
2S	152.4	132
2.5S	190.6	165
3S	254	220
4S	254	220

FEED PUMPS

ARE836-PC

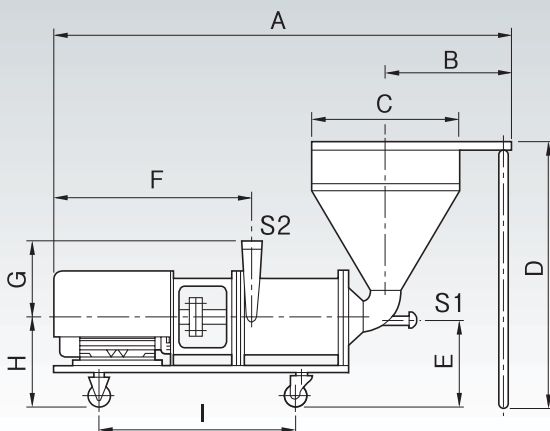


CHARACTERISTIC CURVES



TYPE	S1	S2	A	B	C	D	E	F	G	H	I	J	HP	R.P.M
													3500	1750
ARS-CPMP 40-11	38	38	172	75	130	162	125	185	75	646	180	230	0.5	0
	38	38	172	75	130	162	125	185	75	646	180	230	1	0
	38	38	188	75	130	172	140	200	75	646	205	255	2	0
	50	38	235	75	130	194	190	250	75	648	220	270	3	0
ARS-CPMP 40-14	38	38	188	75	130	172	140	200	75	646	205	255	2	0
	50	38	235	75	130	194	190	250	75	648	220	270	3	0
	50	38	235	80	170	194	190	250	80	653	220	270	5	0
	63.5	50	255	80	170	214	216	276	80	720	220	270	7.5	0
ARS-CPMP 50-16	63.5	50	255	80	170	214	216	276	80	720	220	270	7.5	0
	63.5	50	255	80	170	214	216	276	80	720	258	308	10	0

MIXING HOPPERS (HORIZONTAL TYPE)



TYPE	DIMENSION (UNIT:mm)											MOTOR (HP)	CAPACITY (L/H)
	S1	S2	A	B	C	D	E	F	G	H	I		
1-1	50	50	1880	640	400	1160	250	580	140	300	580	3	4000
1-2	50	50	1880	640	400	1160	250	580	140	300	580	5	8000
1-3	50	50	1950	640	400	1200	260	660	145	322	660	7.5	12000
1-4	63.5	63.5	2040	640	400	1250	260	705	170	322	705	10	15000
1-5	63.5	63.5	2200	700	450	1300	280	865	195	360	865	15	18000
1-6	63.5	63.5	2250	700	500	1300	280	920	220	360	920	20	20000



PLATE HEAT EXCHANGER

우유 및 유제품, 빙과류, 청량음료, 주류, 식용유, 간장, 당액류 등의 가열, 냉각, 살균, 멸균.



SPIRAL FLOW HEAT EXCHANGER

사과, 유자, 포도, 복숭아, 딸기



■ MESTING TANK



■ 육골, 약제, 추출, 농축, 플랜트



스텐레스밸브 전문제작

식품 제약 화학 샘플 PLANT, SANITARY EQUIPMENTS
TANK 제작 및 위생 배관 시공



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