



S-VALVE



Certificate of Registration

품질경영시스템인증서

(주)에스밸브

경기도 시흥시 정왕동 1258-2 101동 시화공단 2다 203호

아이씨알인증원은 상기업체의 품질경영시스템이
아래의 인증규격에 적합함을 인증합니다

ISO 9001:2008

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인증범위

식품, 제약, 화학산업 분야의 위생용 밸브, 파이프, 핏팅, 기기류의
생산 및 부가서비스

인증일자 : 30th May 2013

인증서 번호 : Q371610

유효기간 : 29th May 2016

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President



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제 R100601 - 00681 호

기술혁신형 중소기업(INNO-BIZ) 확인서

업 체 명 : 주식회사에스밸브

대 표 자 : 이장효

주 소 : 경기 시흥시 정왕2동 1258-2 (시화공단2다
203호)

등 급 : A

유효기간 : 2013. 4. 23 ~ 2016. 4. 22

위 업체는 기술혁신형 중소기업 발굴 육성사업에 의해 선정된 기술혁신형 중소기업(INNO-BIZ)임을 확인합니다.



2013년 4월 19일

중 소 기 업 청



PROGRESSIVE SANITARY VALVES

S-VALVE, We are The New Generation of Sanitary Valves

INTRODUCTION

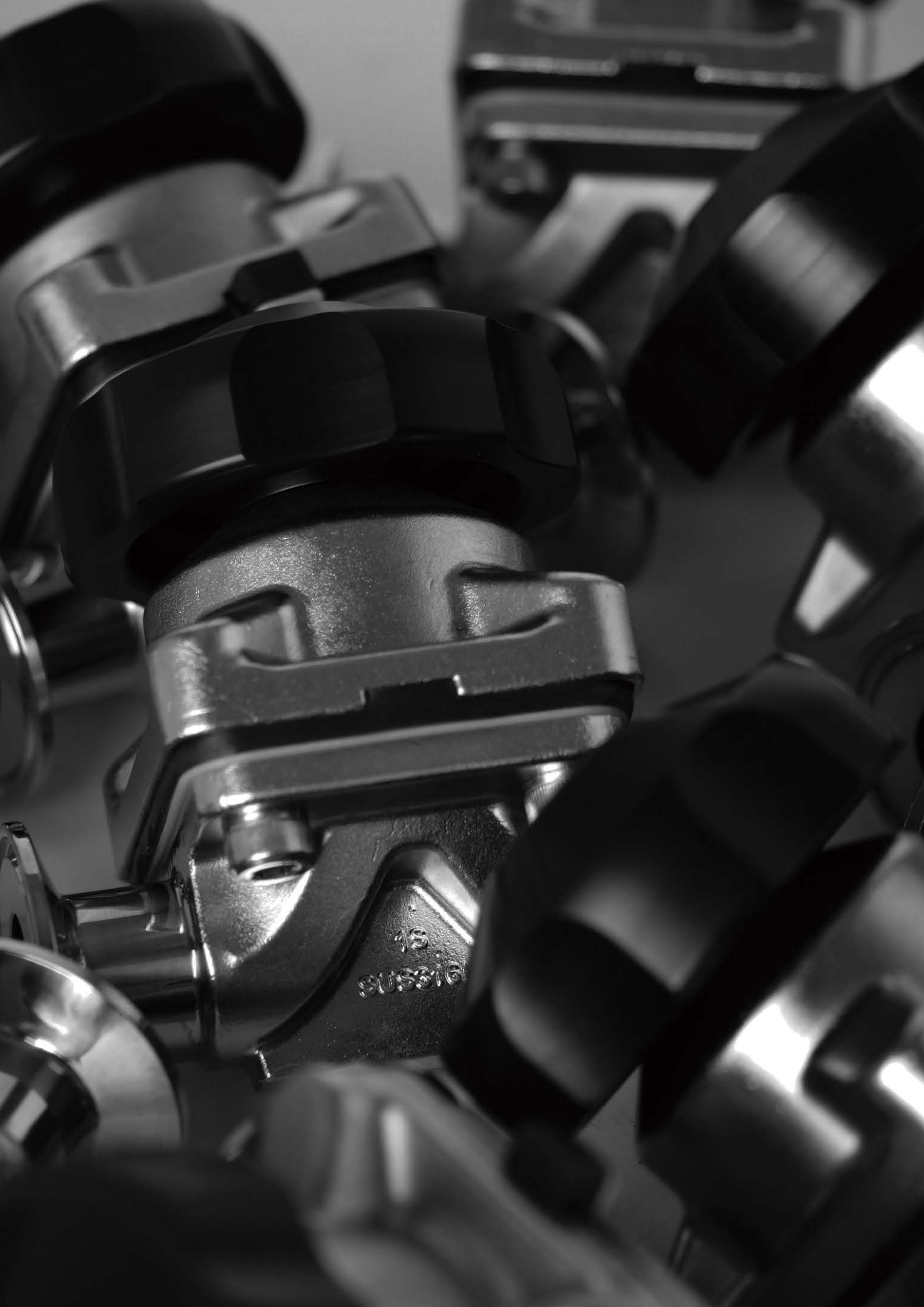
(주)에스밸브는 위생용 밸브 전문업체로서 SANITARY VALVES, FITTINGS, EQUIPMENTS를 전문적으로 생산하고 있습니다.

당사는 고객의 다양한 요구와 조건에 풍부한 경험과 높은 기술력으로 대응하여 고객 만족을 이끌어 내고 있습니다.

또한 점차 발전하고 있는 신기술과 시장의 요구상황에 언제나 부응할 수 있도록 연구개발에 힘쓰고 있습니다.

체계적인 기술 확립과 우수한 품질 관리를 바탕으로 최고의 제품을 생산, 공급해 고객과 함께 성장하고 신뢰받는 (주)에스밸브가 되도록 최선의 노력을 다하겠습니다.

S-VALVE



STANDARD & OPTION

Standard

•• 자동밸브류

작동방법	Pneumatic Actuator & Cylinder (Single & Double Acting)
작동범위	Actuator - 0° ~ 90° Cylinder - 0 ~ 45mm
Air 사용압력	4~7kgf/cm ²
Air 연결구	ø6
밸브형식	항시닫힘 (Normal Close) 항시열림 (Normal Open)

•• 수동밸브류

작동방법	Manual Handle
작동범위	레버형 Handle - 0° ~ 180° (22.5° 잠금장치) 회전형 Handle - 0 ~ 45mm
재질	모든 재질 STS304

•• 재질

Pipes	STS304 - KS D 3585 STS304TBS
	STS3316L - KS D 3585 STS316LTBS
Investment Castings	STS304 - KS D 4103 SSC13, ASTM A351 CF8
	STS316 - KS D 4103 SSC14, ASTM A351 CF8M
	STS316L - KS D 4103 SSC16, ASTM A351 CF3M
Seals	EPDM - 사용온도 : -40°C ~ 130°C
	N.B.R - 사용온도 : -25°C ~ 130°C
	SILICON - 사용온도 : -50°C ~ 200°C
	TEFLON - 사용온도 : -180°C ~ 260°C FDA, CFR 21 Section 177.1550
	TFM - 사용온도 : -180°C ~ 260°C FDA, CFR 21 Section 177.1550

•• 연결방식

WELD (KS D 3585)

HEX-UNION (ISO 2853)

CLAMP-UNION (ISO 2852)

DIN-UNION (DN 11851)

SMS-UNION 외

•• 표면조도측정

내면의 표면조도 $RA \leq 0.6 \mu m$

외면의 표면조도 $RA \leq 0.6 \mu m$

•• 검사 및 시험

밸브류 내압검사 수압 6kgf/cm^2

밸브류 작동검사 100회 이상 작동 검사

표면검사 표면조도 측정기 그래프 및 육안검사

Option

자동 및 수동밸브류 리미트스위치 또는 근접센서 부착

자동 및 수동밸브류 솔레노이드 밸브 부착

비례제어 UNIT 장착

특수재질 (하스텔로이-C외) 제작

전해연마

CONTENTS



DIAPHRAGM VALVES

CONTROL DIAPHRAGM VALVE	19
MANUAL DIAPHRAGM VALVE	20
PNEUMATIC DIAPHRAGM VALVE	23
ZERO STATE USE POINT VALVE	26
T-PATTERN DIAPHRAGM VALVE	28
TANK BOTTOM DIAPHRAGM VALVE	30

MANUAL VALVES

BUTTERFLY VALVE	34
2WAY BALL VALVE(개조형)	36
2WAY BALL VALVE	36
3PIECE BALL VALVE	37
3PIECE 2WAY BALL VALVE	37
3WAY BALL VALVE	38
FLUSH TANK BALL VALVE	38
L-HAND VALVE	39
F-HAND VALVE	39
TANK BOTTOM VALVE	40
RELIEF VALVE	40
MICRO VALVE	41
CHECK VALVE	41
SAMPLE COCK	42

PNEUMATIC VALVES

PNEUMATIC BUTTERFLY VALVE	44
PNEUMATIC 2WAY BALL VALVE	45
PNEUMATIC 3PIECE BALL VALVE	45
PNEUMATIC 3PIECE 2WAY BALL VALVE	46
PNEUMATIC 3WAY BALL VALVE	46
PNEUMATIC FLUSH TANK BALL VALVE	47
PNEUMATIC LE VALVE	47
PNEUMATIC FE VALVE	48
PNEUMATIC TANK BOTTOM VALVE	48

ACCESSORIES

49

FITTINGS

WELD FITTINGS	55
CLAMP UNION FITTINGS	64
HEX UNION FITTINGS	66
DIN UNION FITTINGS	70
SMS UNION FITTINGS	71

S - V A L V E P R O D U C T S C A T A L O G



S-VALVE PRODUCTS



ZERO DEAD LEG TEE & USE POINT

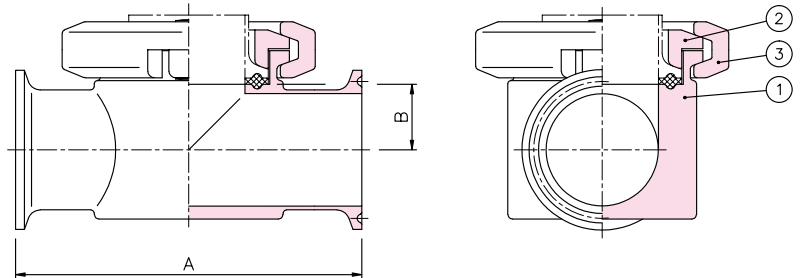
Features

Size	ISO 1/2S~4S
Connection	ISO Ferrule, Weld
Material	Body : Forging STS316L
Surface Treatment	Internal : Ra≤0.4μm External : Ra≤0.6μm



ZERO DEAD LEG TEE - 3F-

SVC238



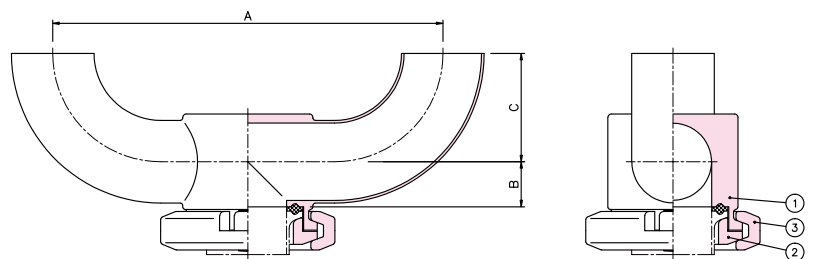
1 Body
2 Cover
3 Clamp Band

Dimension

	1S	1.5S	2S	2.5S	3S	4S
A	110	110	126	136	150	205
B	14.5	20.8	26.9	33	39	52.6

ZERO DEAD LEG USE POINT -1F -

SVC239



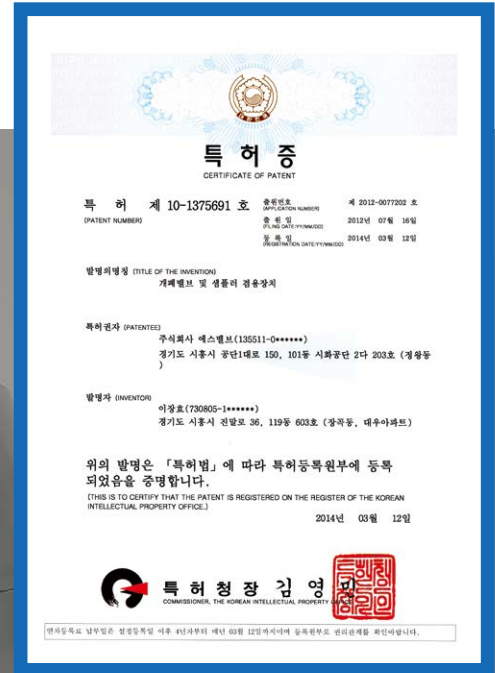
1 Body
2 Cover
3 Clamp Band

Dimension

	1S	1.5S	2S	2.5S	3S	4S
A	150	180	216	267	287	418
B	14.5	20.8	26.9	33	39	52.6
C	35	50	60	79	82	134.5



PNEUMATIC TANK BOTTOM DIAPHRAGM VALVE



PNEUMATIC TANK BOTTOM DIAPHRAGM VALVE (SAMPLING SYSTEM)

SVA119

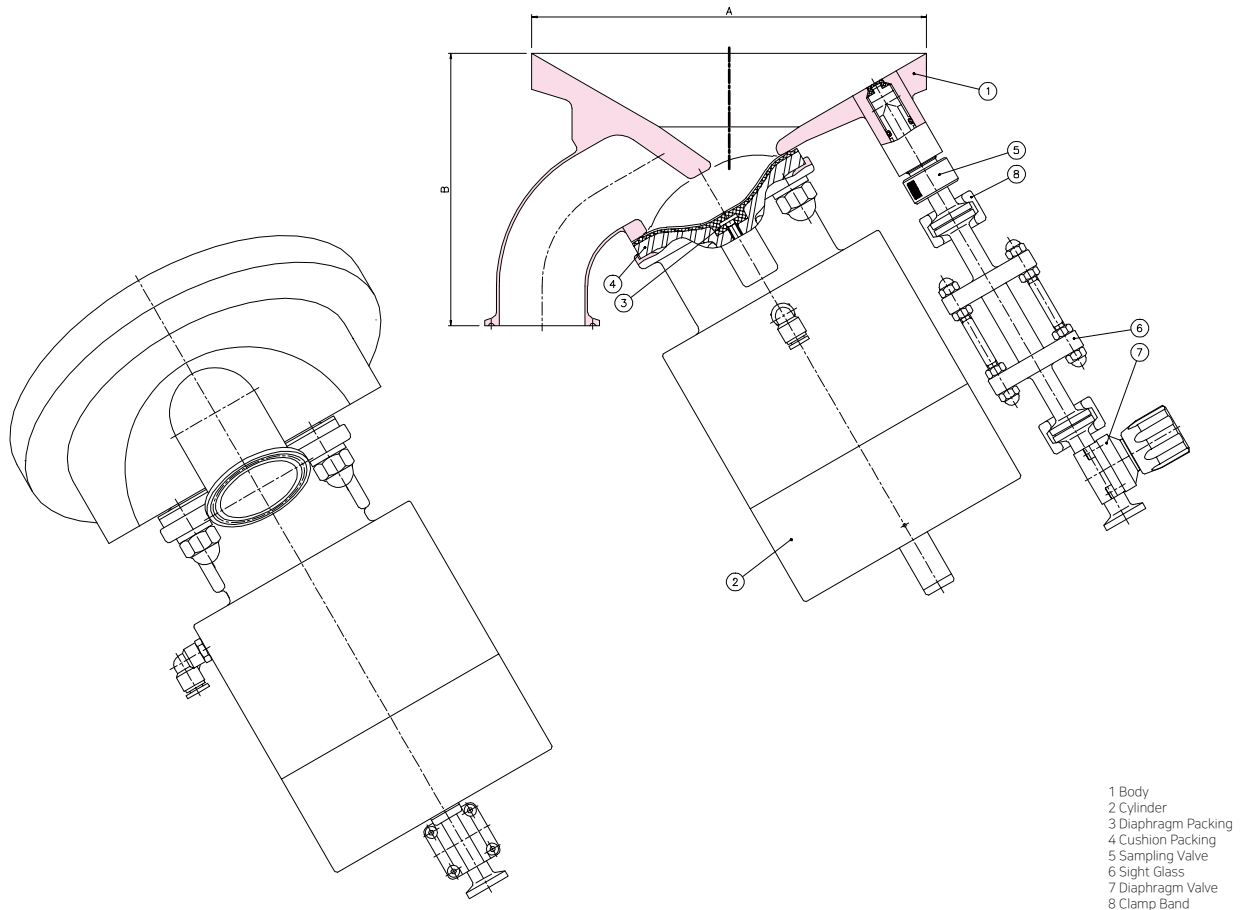


Features

Size	ISO 1.5S~3S
Connection	ISO Ferrule , Weld
Material	Body : Casting STS 316L Forging STS 316L Bonnet : Casting STS304 Cylinder : STS304
Diaphragm	TFM - FDA, Single TFM - FDA, Two piece CFR21 Section 177.1550
Surface Treatment	Internal : Ra≤0.4μm External : Ra≤0.6μm Other : Electrolytic Polishing
Working Temperature	-5°C~150°C
Working Pressure	6kg/cm ²
Operating Air Pressure	4~7kg/cm ²

Dimension

	1.5S	2S	3S
A	210	220	300
B	138	152	212



- 1 Body
- 2 Cylinder
- 3 Diaphragm Packing
- 4 Cushion Packing
- 5 Sampling Valve
- 6 Sight Glass
- 7 Diaphragm Valve
- 8 Clamp Band

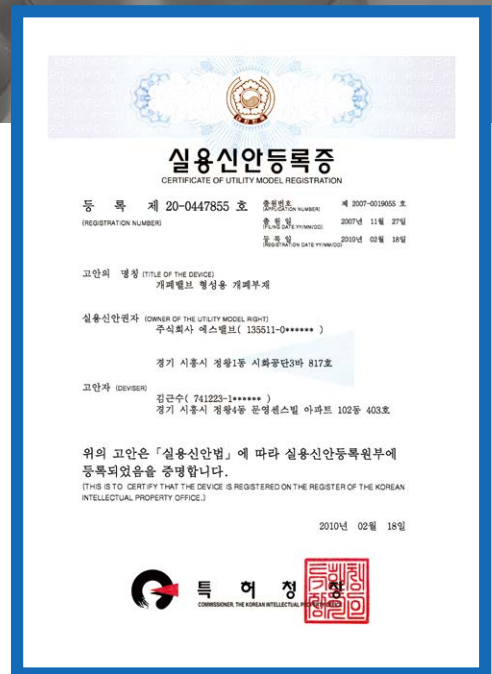


ASEPTIC VALVE



Features

Size	ISO 1/2S~2S
Connection	ISO Ferrule , Weld
Material	Body : Forging STS 316L Cylinder : STS304 Handwheel : M.C Nylon, STS304
Diaphragm	TFM - FDA, Two piece CFR21 Section 177.1550
Surface Treatment	Internal : Ra≤0.4μm External : Ra≤0.6μm Other : Electrolytic Polishing
Working Temperature	-5°C~150°C
Working Pressure	6kg/cm ²
Operating Air Pressure	4~7kg/cm ²

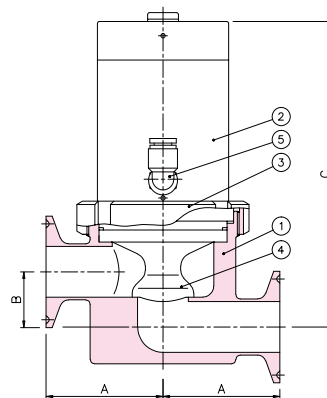


14

ASEPTIC VALVE

PNEUMATIC ASEPTIC VALVE

SVA124



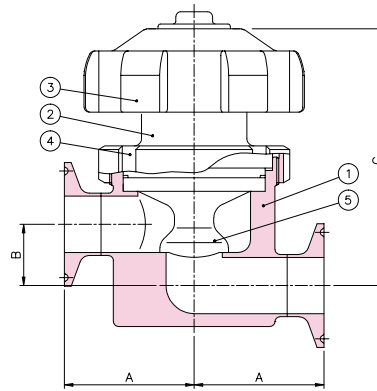
- 1 Body
- 2 Cylinder
- 3 Body Nut
- 4 Diaphragm
- 5 Air Connect

Dimension

	1/2S	3/4S	1S	1.5S	2S
A	41.5	41.5	53	75	85
B	12	17.5	25	38.2	50.3
C	97	100	139	176	209

ASEPTIC VALVE

SVM124



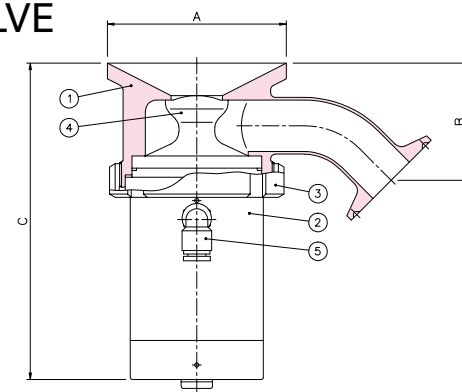
- 1 Body
- 2 Bonnet
- 3 Handwheel
- 4 Body Nut
- 5 Diaphragm

Dimension

	1/2S	3/4S	1S	1.5S	2S
A	41.5	41.5	53	75	85
B	12	17.5	25	38.2	50.3
C	87	89	102	148	185

PNEUMATIC ASEPTIC TANK BOTTOM VALVE

SVA125



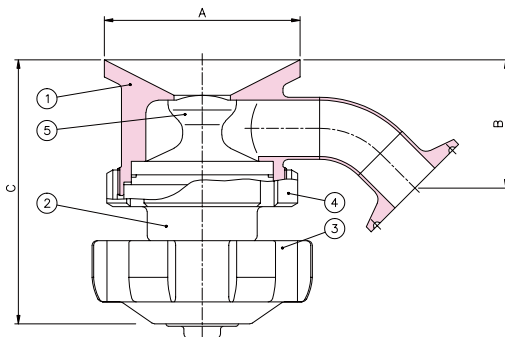
- 1 Body
- 2 Cylinder
- 3 Body Nut
- 4 Diaphragm
- 5 Air Connect

Dimension

	1/2S	3/4S	1S	1.5S	2S
A	60	60	80	100	150
B	46	41	52	69	93
C	105	105	142	178	219

ASEPTIC TANK BOTTOM VALVE

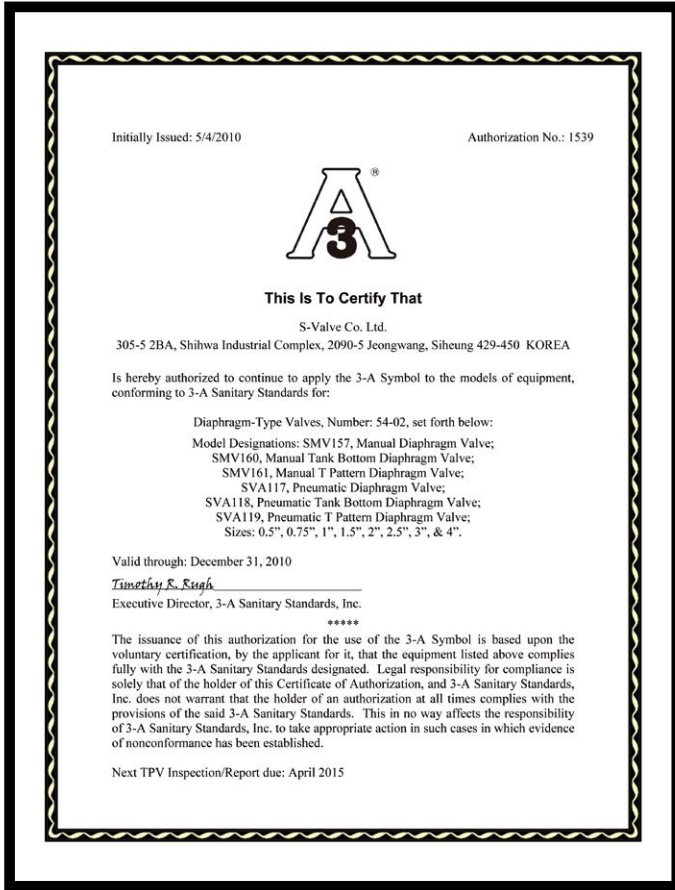
SVM125



- 1 Body
- 2 Bonnet
- 3 Handwheel
- 4 Body Nut
- 5 Diaphragm

Dimension

	1/2S	3/4S	1S	1.5S	2S
A	60	60	80	100	150
B	46	41	52	69	93
C	95	95	105	150	195



국내최초 3A인증 획득

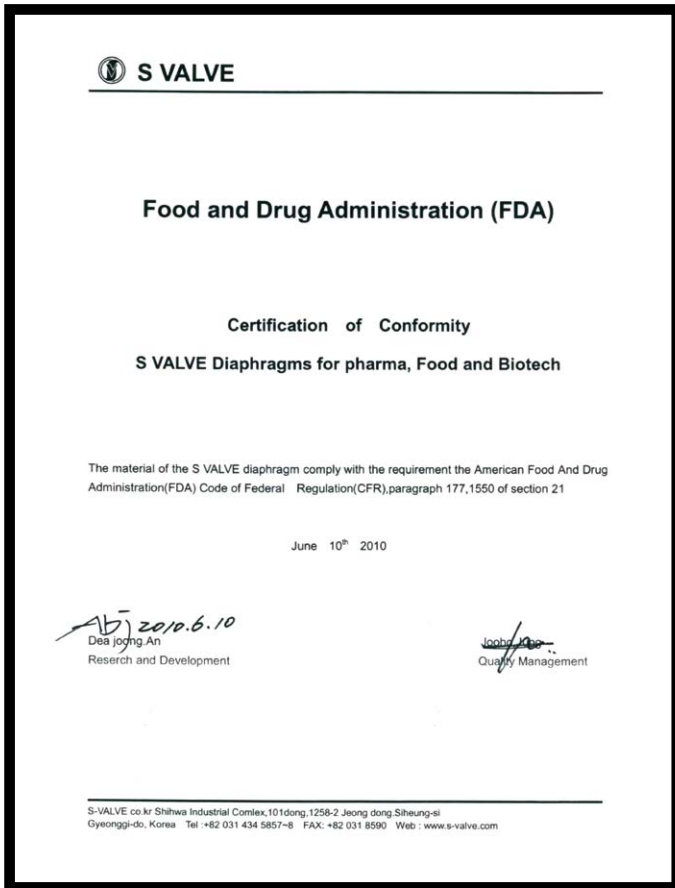
(주)에스밸브는 연구개발을 통해 독자적인 기술로 국내최초 3A인증을 획득하였습니다.

MODEL

Sanitary Manual Diaphragm Valve
 Sanitary Manual T Pattern Diaphragm Valve
 Sanitary Manual Tank Bottom Diaphragm Valve
 Sanitary Pneumatic Diaphragm Valve
 Sanitary Pneumatic T Pattern Diaphragm Valve
 Sanitary Pneumatic Tank Bottom Diaphragm Valve

SIZE

1/2S, 3/4S, 1S, 1.5S, 2S, 2.5S, 3S, 4S



국내 최초

다이아프램 테프론 시트 USP Class VI 기준 획득 (NAMSA-GLP Report-V0011-130)

MODEL

Sanitary Manual Diaphragm Valve
 Sanitary Manual T Pattern Diaphragm Valve
 Sanitary Manual Tank Bottom Diaphragm Valve
 Sanitary Pneumatic Diaphragm Valve
 Sanitary Pneumatic T Pattern Diaphragm Valve
 Sanitary Pneumatic Tank Bottom Diaphragm Valve

SIZE

1/2S, 3/4S, 1S, 1.5S, 2S, 2.5S, 3S, 4S



DIAPHRAGM VALVES

에스밸브 DIAPHRAGM VALVE 소개

에스밸브 DIAPHRAGM VALVE의 특징

1. 이송하려는 유체를 오염시키지 않으며 배관시스템에서 제품을 분리하지 않고도 손쉽게 조립이 가능하여 제품을 보수하는 시간을 줄여 줍니다.
2. 부피가 작아 공간을 많이 차지 하지 않으며 살균 및 멸균이 가능합니다.
3. 밸브 열림/닫힘의 외부표시로 현재의 개,폐 여부를 확인 할 수 있습니다.

● BODY

DIAPHRAGM과 접촉되는 부분은 유체의 흐름과 개,폐에 있어 가장 이상적인 곡선을 가지고 있으며 설치 각도에 따라 내부에 액체가 고이지 않고 배출되는 구조를 갖고 있습니다.

BODY의 재질은 STS316L이며 표면 조도 값은 $Ra \leq 0.64$ 이하로 유지 됩니다.

(고객의 요청에 의하여 E.P도 가능)

BODY의 연결 부는 ISO,DIN,SMS 중에 가능합니다.

● BONNET

BONNET은 STS304에 전해연마가 되어 있는 상태 입니다.

당사의 BONNET은 사용자의 요구에 따라 BONNET 측면에 PROXIMITY SENSOR를 부착하여 OPEN & CLOSE를 감지 할 수 있습니다.

BONNET과 HANDWHEEL은 하나의 WRENCH BOLT로 연결되어 있어 손쉬운 분해 조립이 가능합니다.

● CUSHION PACKING

당사의 CUSHION PACKING은 밸브의 작동에 원활한 최적의 고무경도를 적용 하였으며 제품의 수명을 결정짓는 보강전용 특수 천을 사용 함으로써 밸브의 품질을 높였습니다.

EPDM : 에치렌 , 프로필렌 , 다인 (Ethyne , Proplene , Dine)

EPM-EPDM 합성고무는 EPDM 계열이라 하며 고무상태로 약간 탄성이 있으며 내후와 내열성이 우수한 고무상태의 원료입니다.

내열 및 내한성이 우수하여 -50 ~ 150 까지 사용 가능합니다.

오존성 , 내후성 , 노화성이 우수합니다.

내약품성 , 극성 용제에 우수합니다.

수증기에 우수하나 접착성 및 부루민성이 나쁩니다.

● DIAPHRAGM PACKING

PTFE : 폴리테트라플루오에틸렌(Polytetrafluoroethylene)

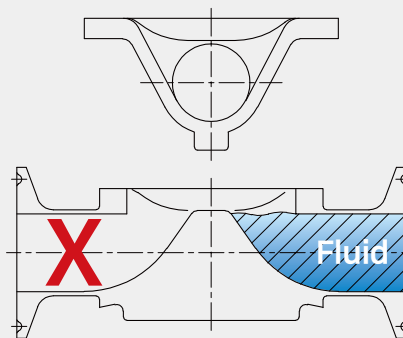
불소수지 PTFE를 최초로 합성하여 TEFLON이란 상품명으로 상용화하였으며, 미국 DUPONT사의 등록상표로서 다른 고분자 화합물이 갖지 못한 독특한 물리적,화학적 특징을 지닙니다.

PTFE은 내화학성, 내구성, 내열성이 뛰어나며 특히 상용온도 260도

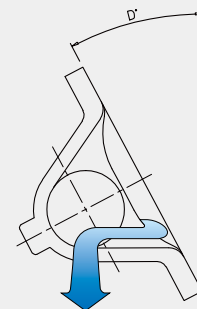
단시간에 300도 까지도 사용할 수 있습니다.

PTFE 단독으로서는 마모가 크기 때문에 각종 충전제를 배합하여 내마모성, 내하중성을 향상시키고 있습니다.

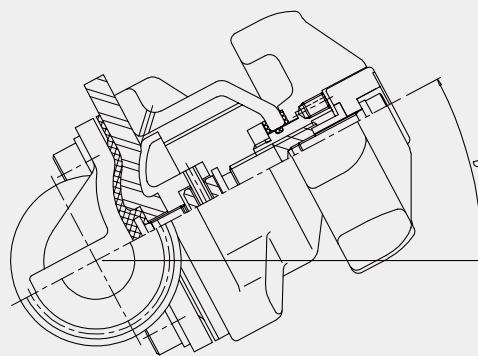
• SELF DRAIN ANGLES



수평설치
(X)



SELF DRAIN ANGLE
설치(O)



SELF DRAIN ANGLE

Valve Size	Angle
1/2S	-
3/4S	31°
1S	28°
1.5S	23°
2S	23°
2.5S	28°
3S	19°
4S	19°

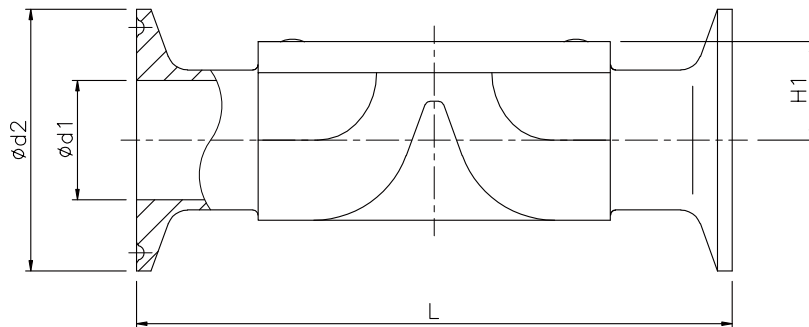
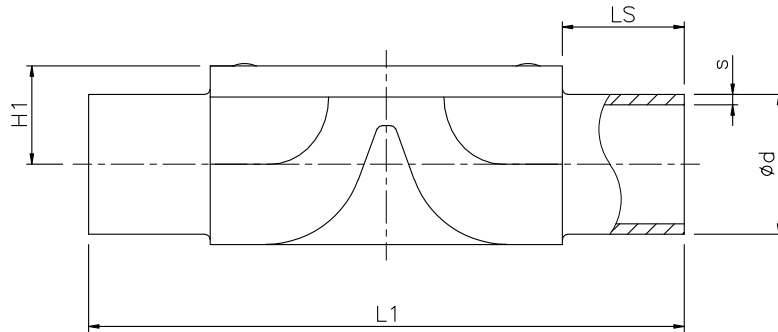
밸브를 배관과 수평으로 설치시 배관내부 유체의 SELF DRAIN이 자연스럽게 이루어지지 않습니다.

위 그림의 SELF DRAIN ANGLE로 설치하시면 액체가 고이지 않고 배출될 수 있는 최적의 DRAIN을 얻을수 있습니다.



※ VALVE 옆면에 SELF DRAIN ANGLE이 표기되어 있습니다.

SPEC SHEET



20

DIAPHRAGM VALVES

Dimension in mm

DN	NPS	MG	L	L1	LS(min)	H1	ϕ_{d1}	ϕ_{d2}	ISO	ASTM 269	JIS - G	DIN	DIN 11850			DIN	SMS	BS O.D	JIS - G
									Code 60	ASME BPE Code 59	3447 Code 35	Code 0	Series 1 Code 16	Series 2 Code 17	Series 3 Code 18	11886 Code 1A	3008 Code 37	4825 Code 55	3459 Code 36
10	3/8"	8	-	-	-	-	-	-	9.53x0.89	-	-	-	12x1.00	13x1.50	14x2.00	13x1.50	-	9.53x1.20	-
15	1/2"	25	60	120	25	7.5	9.4	25	21.3x1.60	12.70x1.65	-	18x1.50	18x1.00	19x1.50	20x2.00	19x1.50	-	12.70x1.20	21.7x2.10
20	3/4"	25	80	120	25	13	15.75	25	26.9x2.00	19.05x1.65	-	22x1.50	22x1.00	23x1.50	24x2.00	23x1.50	-	19.05x1.20	27.2x2.10
25	1"	25	115	120	25	19	21.7	50.5	33.7x2.00	25.40x1.65	25.4x1.20	28x1.50	28x1.00	29x1.50	30x2.00	29x1.50	25.0x1.20	-	34.0x2.80
32	1 1/4"	40	-	153	25	-	-	-	42.4x2.00	-	31.8x1.20	34x1.50	34x1.00	35x1.50	36x3.00	35x1.50	33.7x1.20	-	42.7x2.80
40	1 1/2"	40	140	153	25	28	34.8	50.5	48.3x2.00	38.10x1.65	38.1x1.20	40x1.50	40x1.00	41x1.50	42x2.00	41x1.50	38.0x1.20	-	48.6x2.80
50	2"	50	160	173	30	35	47.5	64	60.3x2.00	50.80x1.65	50.8x1.50	52x1.50	52x1.00	53x1.50	54x2.00	53x1.50	51.0x1.20	-	60.5x2.80
65	2 1/2"	80	215	216	30	39.1	60.2	77.5	76.1x2.00	63.5x1.65	63.5x2.00	-	-	70x2.00	-	70x2.00	63.5x1.60	-	76.3x3.00
80	3"	80	254	254	30	45	72.9	91	88.9x2.30	76.20x1.65	76.3x2.00	-	-	85x2.00	-	85x2.00	76.1x1.60	-	89.1x3.00
100	4"	100	300	305	30	59.5	97.38	119	114.3x2.30	101.60x2.11	101.6x2.00	-	-	104x2.00	-	104x2.00	101.6x2.00	-	114.3x3.00

MG = Diaphragm Valve Size



CONTROL DIAPHRAGM VALVES

CONTROL DIAPHRAGM VALVE

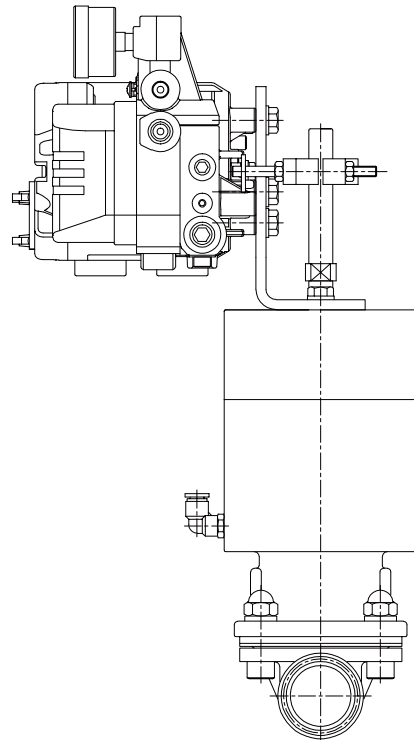
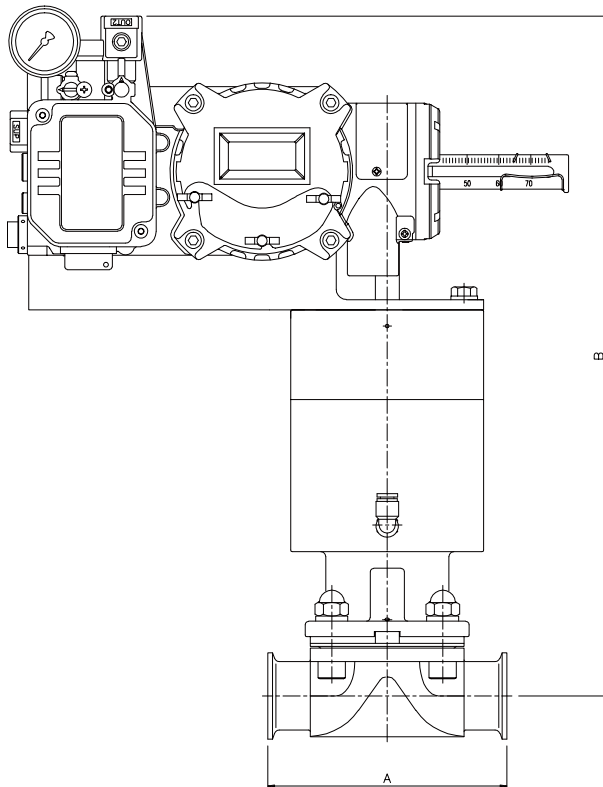
SVA118

Features

Size	ISO 1S~4S
Connection	ISO Ferrule, Male, Weld
Material	Body : Casting STS316L Forging STS316L
	Bonnet : Casting STS304
	Cylinder : STS304
Diaphragm	TFM - FDA, Single TFM - FDA, Two piece CFR21 Section 177.1550
Surface Treatment	Internal Ra≤0.4μm External Ra≤0.6μm Other : Electrolytic Polishing
Working Temperature	-5°C~150°C
Working Pressure	6kg/cm ²
Operating Air Pressure	4~7kg/cm ²

Dimension

	1S	1.5S	2S	2.5S	3S	4S
A	115	140	160	170	254	300
B	345	398	430	467	467	525



CONTROL DIAPHRAGM VALVE (MOTOR)

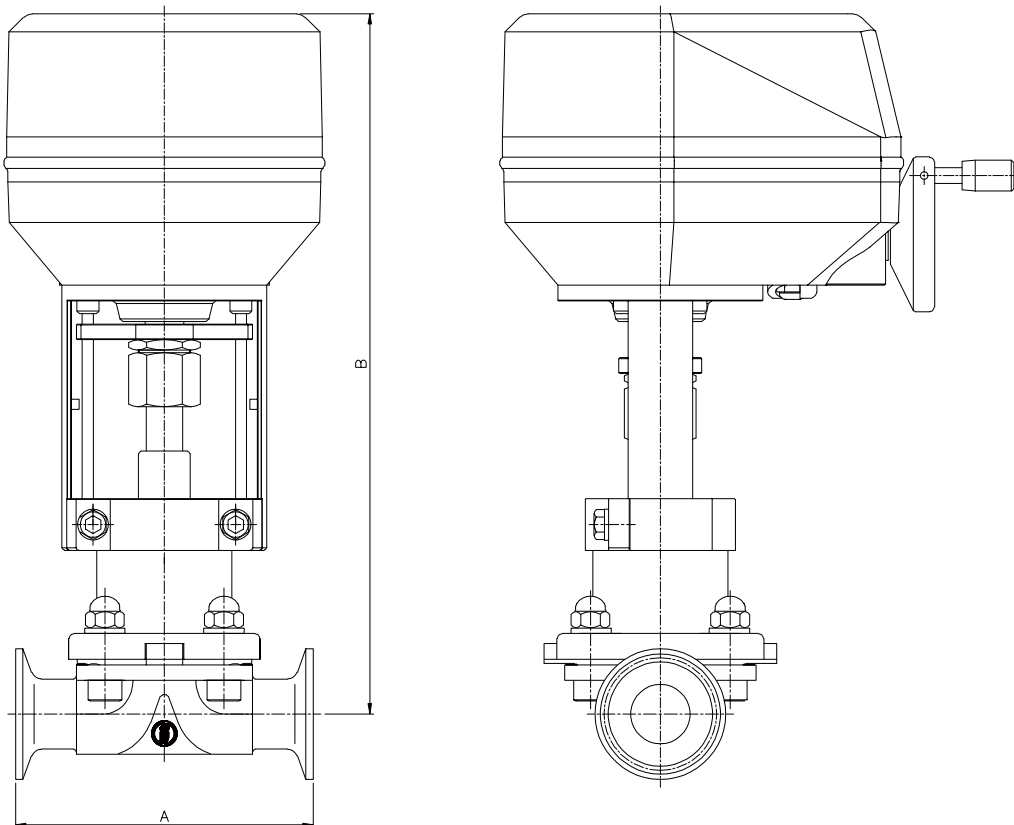
SVA300

Features

Size	ISO 1S~4S
Connection	ISO Ferrule, Male, Weld
Material	Body : Casting STS316L Forging STS316L
	Bonnet : Casting STS304
Motor	N : 2000 Operating time : 50sec Power : 220V ±10%, 60Hz
Diaphragm	TFM - FDA, Single TFM - FDA, Two piece CFR21 Section 177.1550
Surface Treatment	Internal Ra≤0.4μm External Ra≤0.6μm Other : Electrolytic Polishing
Working Temperature	-5°C~150°C
Working Pressure	6kg/cm ²

Dimension

	1S	1.5S	2S	2.5S	3S	4S
A	115	140	160	170	254	300
B	271	288	4296	300	337	360



PNEUMATIC DIAPHRAGM VALVE (MOTOR)

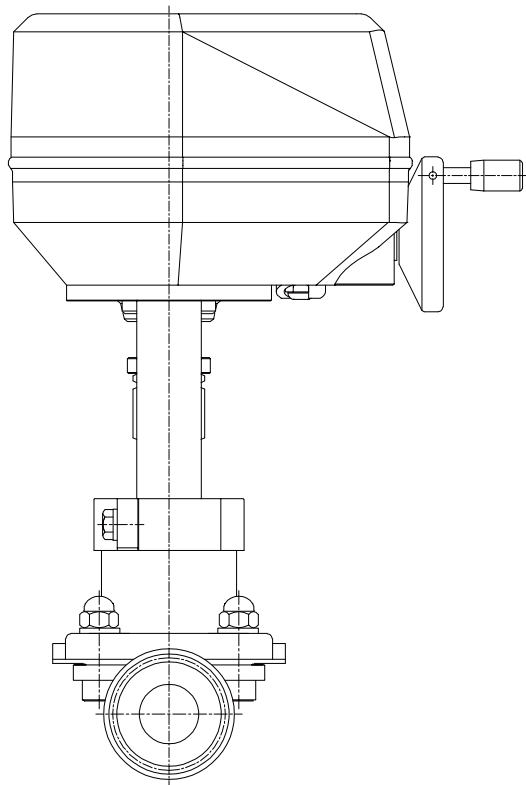
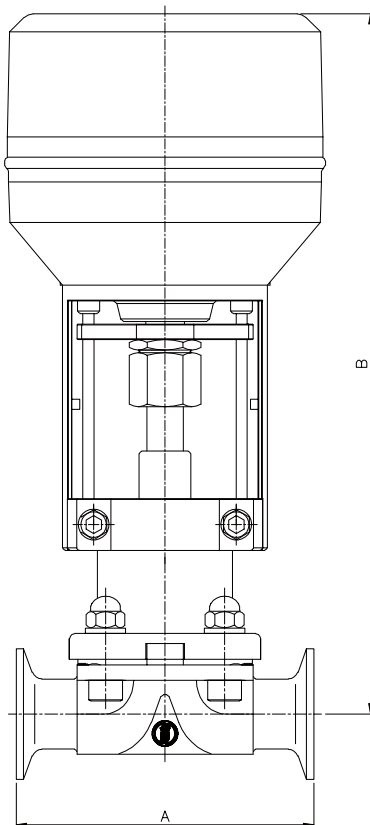
SVA310

Features

Size	ISO 15~4S
Connection	ISO Ferrule, Male, Weld
Material	Body : Casting STS316L Forging STS316L
	Bonnet : Casting STS304
Motor	N : 2000 Operating time : 50sec Power : 220V ±10%, 60Hz
Diaphragm	TFM - FDA, Single TFM - FDA, Two piece CFR21 Section 177.1550
Surface Treatment	Internal Ra≤0.4μm External Ra≤0.6μm Other : Electrolytic Polishing
Working Temperature	-5°C~150°C
Working Pressure	6kg/cm ²

Dimension

	1S	1.5S	2S	2.5S	3S	4S
A	115	140	160	170	254	300
B	271	288	4296	300	337	360





MANUAL DIAPHRAGM VALVES

Features

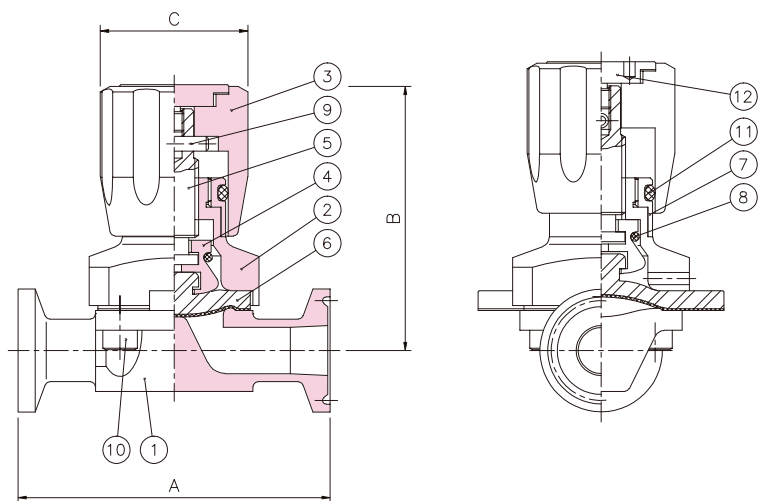
Size	ISO 1/2S~4S
Connection	ISO Ferrule, Male, Weld
Material	Body : Casting STS316L Forging STS316L Bonnet : Casting STS304 Handwheel : M.C Nylon, STS304
Diaphragm	TFM - FDA, Single TFM - FDA, Two piece CFR21 Section 177.1550
Surface Treatment	Internal Ra≤0.4μm External Ra≤0.6μm Other : Electrolytic Polishing
Working Temperature	-5°C~150°C
Working Pressure	6kg/cm ²

Dimension

	1/2S	3/4S	1S	1.5S	2S	2.5S	3S	4S
A	63.5	90	115	140	160	170	254	300
B	50	76	98	126	155	147	202	229
C	30	60	90	115	140	140	200	250

MANUAL DIAPHRAGM VALVE (1/2S)

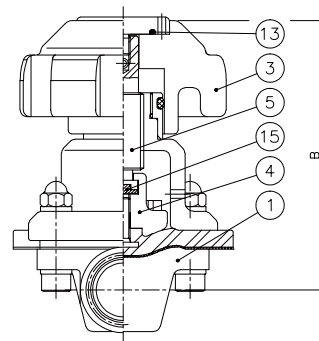
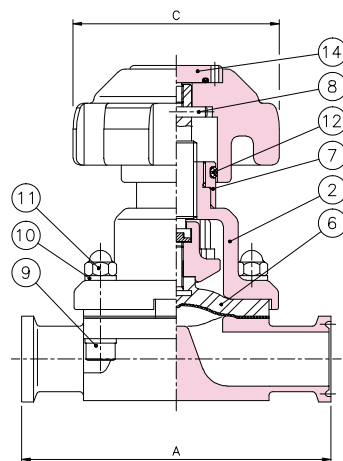
SVM157



- 1 Body
- 2 Bonnet
- 3 Handwheel
- 4 Compressor
- 5 Spindle
- 6 Diaphragm Packing
- 7 Indicator
- 8 O-Ring
- 9 Stop Pin
- 10 Wrench Bolt
- 11 O-Ring
- 12 Logo Cap

MANUAL DIAPHRAGM VALVE (3/4S)

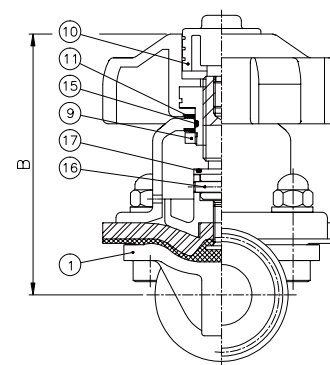
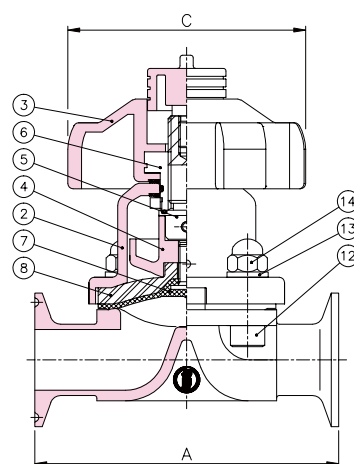
SVM157



- | | |
|---------------------|------------------|
| 1 Body | 9 Wrench Bolt |
| 2 Bonnet | 10 Spring Washer |
| 3 Handwheel | 11 Cap Nut |
| 4 Compressor | 12 O-Ring |
| 5 Spindle | 13 O-Ring |
| 6 Diaphragm Packing | 14 Logo Cap |
| 7 Indicator | 15 Spring Washer |
| 8 Stop Pin | |

MANUAL DIAPHRAGM VALVE (1S)

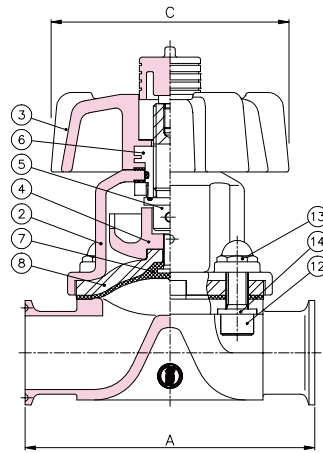
SVM157



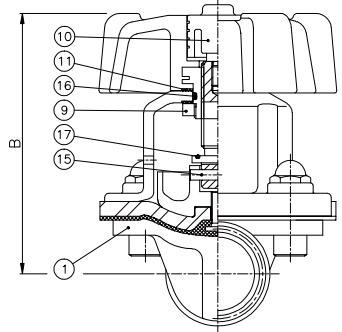
- | | |
|---------------------|-------------------|
| 1 Body | 10 Indicator |
| 2 Bonnet | 11 Spindle Washer |
| 3 Handwheel | 12 Wrench Bolt |
| 4 Compressor | 13 Spring Washer |
| 5 Spindle | 14 Cap Nut |
| 6 Spindle Bushing | 15 O-Ring |
| 7 Diaphragm Packing | 16 Stop Pin |
| 8 Cushion Packing | 17 O-Ring |
| 9 Lock Nut | |

MANUAL DIAPHRAGM VALVE (1.5S)

SVM157

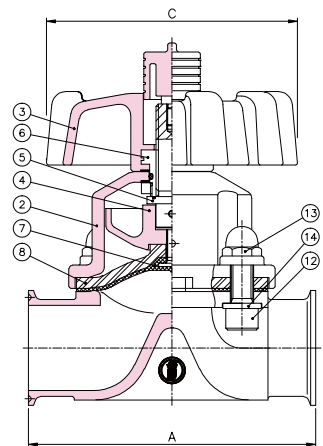


- | | |
|---------------------|-------------------|
| 1 Body | 10 Indicator |
| 2 Bonnet | 11 Spindle Washer |
| 3 Handwheel | 12 Wrench Bolt |
| 4 Compressor | 13 Cap Nut |
| 5 Spindle | 14 Spring Washer |
| 6 Spindle Bushing | 15 Stop Pin |
| 7 Diaphragm Packing | 16 O-Ring |
| 8 Cushion Packing | 17 O-Ring |
| 9 Lock Nut | |

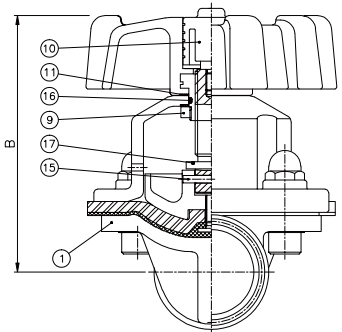


MANUAL DIAPHRAGM VALVE (2S)

SVM157

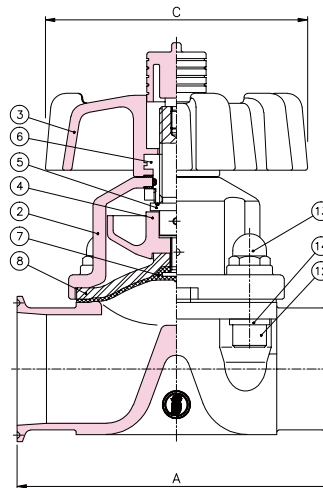


- | | |
|---------------------|-------------------|
| 1 Body | 10 Indicator |
| 2 Bonnet | 11 Spindle Washer |
| 3 Handwheel | 12 Wrench Bolt |
| 4 Compressor | 13 Cap Nut |
| 5 Spindle | 14 Spring Washer |
| 6 Spindle Bushing | 15 Stop Pin |
| 7 Diaphragm Packing | 16 O-Ring |
| 8 Cushion Packing | 17 O-Ring |
| 9 Lock Nut | |

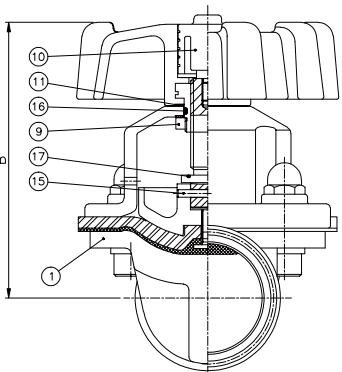


MANUAL DIAPHRAGM VALVE (2.5S)

SVM157

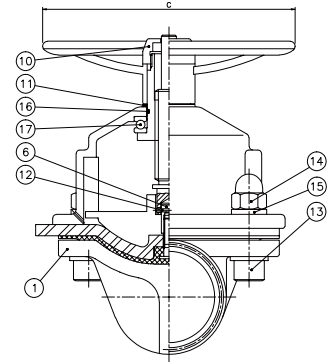
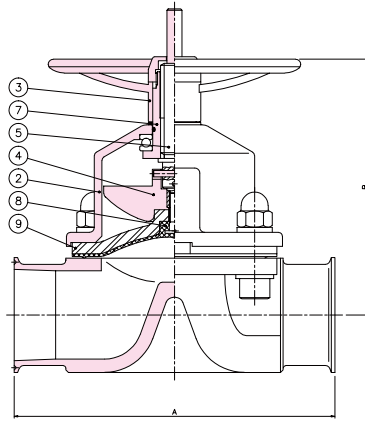


- | | |
|---------------------|-------------------|
| 1 Body | 10 Indicator |
| 2 Bonnet | 11 Spindle Washer |
| 3 Handwheel | 12 Wrench Bolt |
| 4 Compressor | 13 Cap Nut |
| 5 Spindle | 14 Spring Washer |
| 6 Spindle Bushing | 15 Stop Pin |
| 7 Diaphragm Packing | 16 O-Ring |
| 8 Cushion Packing | 17 O-Ring |
| 9 Lock Nut | |



MANUAL DIAPHRAGM VALVE (3S)

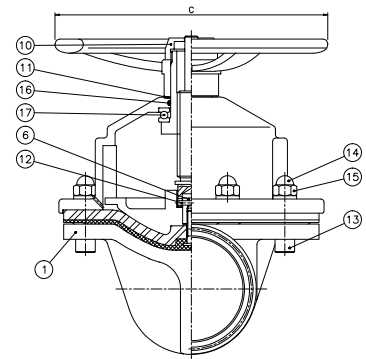
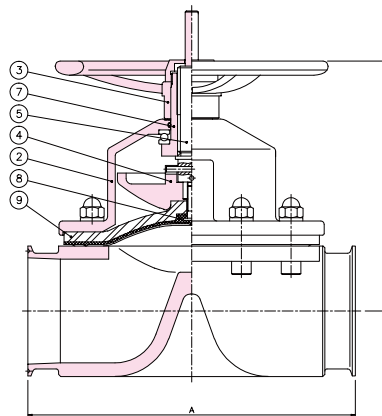
SVM157



- | | | | |
|--------------|---------------------|-------------------|------------|
| 1 Body | 6 Bolt Bushing | 11 Spindle Washer | 16 O-Ring |
| 2 Bonnet | 7 Spindle Bushing | 12 Stop Pin | 17 Bearing |
| 3 Handwheel | 8 Diaphragm Packing | 13 Wrench Bolt | |
| 4 Compressor | 9 Cushion Packing | 14 Cap Nut | |
| 5 Spindle | 10 Lock Nut | 15 Spring Washer | |

MANUAL DIAPHRAGM VALVE (4S)

SVM157



- | | | | |
|--------------|---------------------|-------------------|------------|
| 1 Body | 6 Bolt Bushing | 11 Spindle Washer | 16 O-Ring |
| 2 Bonnet | 7 Spindle Bushing | 12 Stop Pin | 17 Bearing |
| 3 Handwheel | 8 Diaphragm Packing | 13 Wrench Bolt | |
| 4 Compressor | 9 Cushion Packing | 14 Cap Nut | |
| 5 Spindle | 10 Lock Nut | 15 Spring Washer | |



PNEUMATIC DIAPHRAGM VALVES

Features

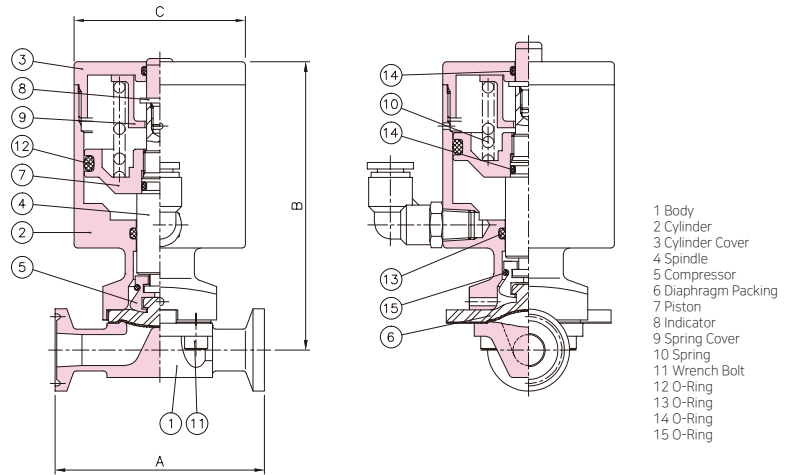
Size	ISO 1/2S~4S
Connection	ISO Ferrule, Male, Weld
Material	Body : Casting STS316L Forging STS316L Bonnet : Casting STS304 Cylinder : STS304
Diaphragm	TFM - FDA, Single TFM - FDA, Two piece CFR21 Section 177.1550
Surface Treatment	Internal Ra≤0.4μm External Ra≤0.6μm Other : Electrolytic Polishing
Working Temperature	-5°C~150°C
Working Pressure	6kg/cm ²
Operating Air Pressure	4~7kg/cm ²

Dimension

	1/2S	3/4S	1S	1.5S	2S	2.5S	3S	4S
A	63.5	90	115	140	160	170	254	300
B	87	126	173	223	247	251	295	352
C	52	60.5	87	113	139.8	139.8	214	264

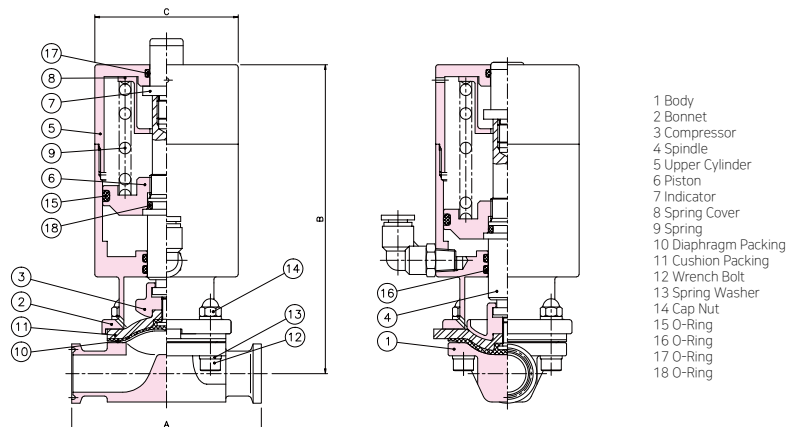
PNEUMATIC DIAPHRAGM VALVE (1/2S)

SVA117



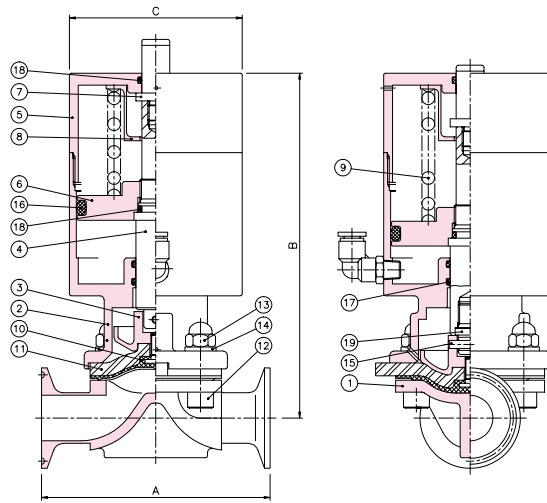
PNEUMATIC DIAPHRAGM VALVE (3/4S)

SVA117



PNEUMATIC DIAPHRAGM VALVE (1S)

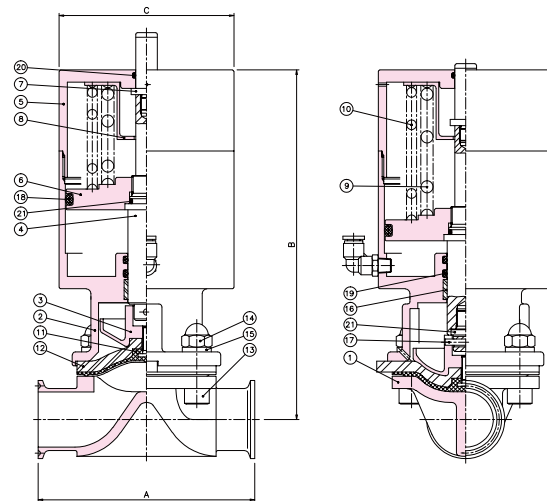
SVA117



- 1 Body
- 2 Bonnet
- 3 Compressor
- 4 Spindle
- 5 Upper Cylinder
- 6 Piston
- 7 Indicator
- 8 Spring Cover
- 9 Spring
- 10 Diaphragm Packing
- 11 Cushion Packing
- 12 Wrench Bolt
- 13 Cap Nut
- 14 Spring Washer
- 15 Stop Pin
- 16 O-Ring
- 17 O-Ring
- 18 O-Ring
- 19 Spindle Adapter

PNEUMATIC DIAPHRAGM VALVE (1.5S)

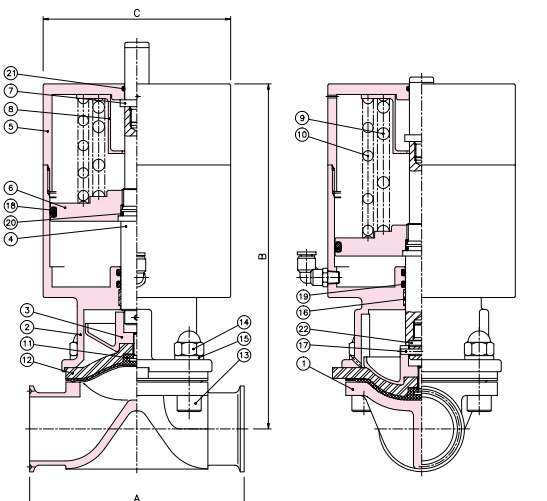
SVA117



- 1 Body
- 2 Bonnet
- 3 Compressor
- 4 Spindle
- 5 Upper Cylinder
- 6 Piston
- 7 Indicator
- 8 Spring Cover
- 9 Spring
- 10 Spring
- 11 Diaphragm Packing
- 12 Cushion Packing
- 13 Wrench Bolt
- 14 Cap Nut
- 15 Spring Washer
- 16 Spindle Ring
- 17 Stop Pin
- 18 O-Ring
- 19 O-Ring
- 20 O-Ring
- 21 O-Ring
- 22 Spindle Adapter

PNEUMATIC DIAPHRAGM VALVE (2S)

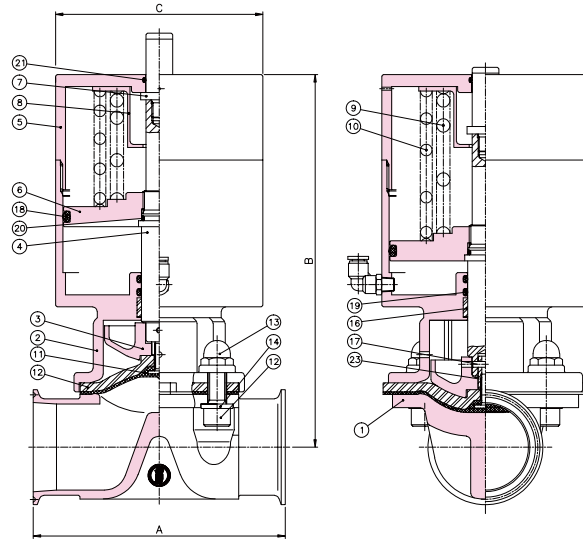
SVA117



- 1 Body
- 2 Bonnet
- 3 Compressor
- 4 Spindle
- 5 Upper Cylinder
- 6 Piston
- 7 Indicator
- 8 Spring Cover
- 9 Spring
- 10 Spring
- 11 Diaphragm Packing
- 12 Cushion Packing
- 13 Wrench Bolt
- 14 Cap Nut
- 15 Spring Washer
- 16 Spindle Ring
- 17 Pin
- 18 O-Ring
- 19 O-Ring
- 20 O-Ring
- 21 O-Ring
- 22 Spindle Adapter

PNEUMATIC DIAPHRAGM VALVE (2.5S)

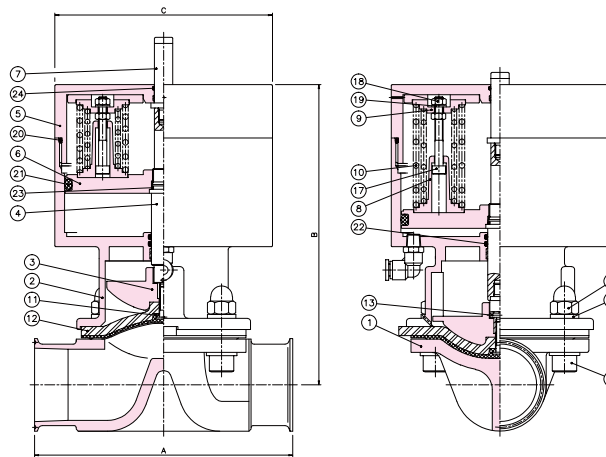
SVA117



- 1 Body
- 2 Bonnet
- 3 Compressor
- 4 Spindle
- 5 Upper Cylinder
- 6 Piston
- 7 Indicator
- 8 Spring Cover
- 9 Spring
- 10 Spring
- 11 Diaphragm Packing
- 12 Cushion Packing
- 13 Wrench Bolt
- 14 Cap Nut
- 15 Spring Washer
- 16 Spindle Ring
- 17 Pin
- 18 O-Ring
- 19 O-Ring
- 20 O-Ring
- 21 O-Ring
- 22 Joint Nut

PNEUMATIC DIAPHRAGM VALVE (3S)

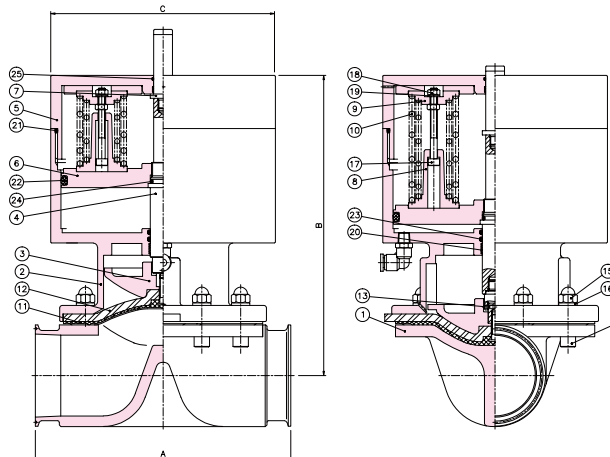
SVA117



- 1 Body
- 2 Bonnet
- 3 Compressor
- 4 Spindle
- 5 Upper Cylinder
- 6 Piston
- 7 Indicator
- 8 Spring Lower Block
- 9 Spring Upper Block
- 10 Spring
- 11 Diaphragm Packing
- 12 Cushion Packing
- 13 Pin
- 14 Wrench Bolt
- 15 Cap Nut
- 16 Spring Washer
- 17 Wrench Bolt
- 18 Nut
- 19 Spring Washer
- 20 O-Ring
- 21 O-Ring
- 22 O-Ring
- 23 O-Ring
- 24 O-Ring

PNEUMATIC DIAPHRAGM VALVE (4S)

SVA117



- 1 Body
- 2 Bonnet
- 3 Compressor
- 4 Spindle
- 5 Upper Cylinder
- 6 Piston
- 7 Indicator
- 8 Spring Lower Block
- 9 Spring Upper Block
- 10 Spring
- 11 Diaphragm Packing
- 12 Cushion Packing
- 13 Pin
- 14 Wrench Bolt
- 15 Cap Nut
- 16 Spring Washer
- 17 Wrench Bolt
- 18 Nut
- 19 Spring Washer
- 20 Guide Ring
- 21 O-Ring
- 22 O-Ring
- 23 O-Ring
- 24 O-Ring
- 25 O-Ring



ZERO STATE USE POINT VALVES

ZERO STATE USE POINT DIAPHRAGM VALVE

SVM161

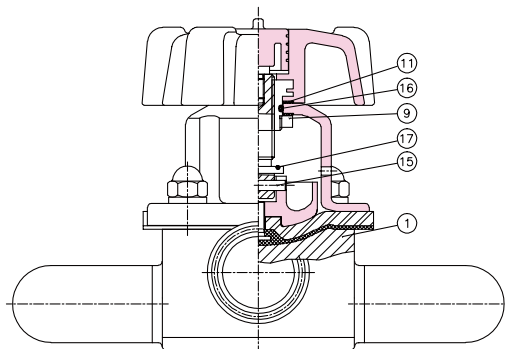
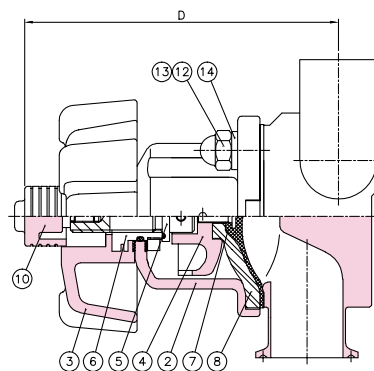
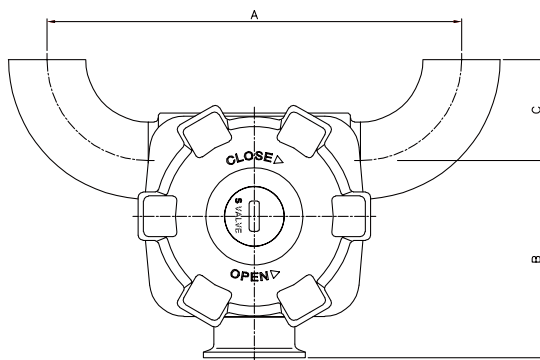


Features

Size	ISO 1S~3S
Connection	ISO Ferrule, Male, Weld
Material	Body : Forging STS 316L Bonnet : Casting STS304 Handwheel : M.C Nylon, STS304
Diaphragm	TFM - FDA, Single TFM - FDA, Two piece CFR21 Section 177.1550
Surface Treatment	Internal : Ra≤0.4μm External : Ra≤0.6μm Other : Electrolytic Polishing
Working Temperature	-5°C~150°C
Working Pressure	6kg/cm ²

Dimension

	1S	1.5S	2S	2.5S	3S
A	155	205	243	343	349
B	78	97	116	160	169
C	35	50	60	79	82
D	119	155	191	240	248



- 1 Body
- 2 Bonnet
- 3 Handwheel
- 4 Compressor
- 5 Spindle
- 6 Spindle Bushing
- 7 Diaphragm Packing
- 8 Cushion Packing
- 9 Lock Nut
- 10 Indicator
- 11 Sliding Washer
- 12 Stud Bolt
- 13 Cap Nut
- 14 Spring Washer
- 15 Stop Pin
- 16 O-Ring
- 17 O-Ring

PNEUMATIC ZERO STATE USE POINT DIAPHRAGM VALVE

SVA181

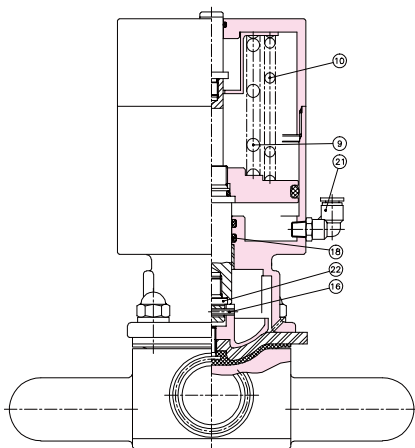
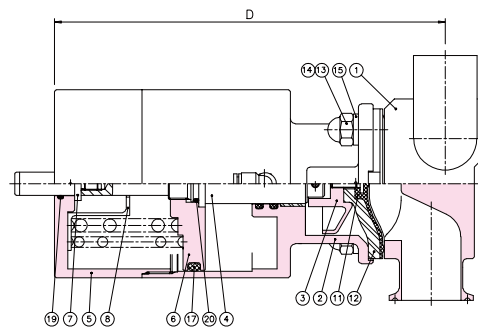
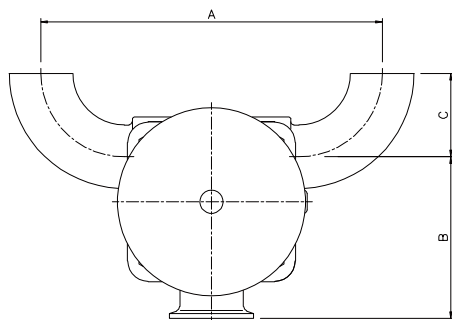


Features

Size	ISO 1S~3S
Connection	ISO Ferrule, Weld
Material	Body : Forging STS316L Bonnet : Casting STS304 Cylinder : STS304
Diaphragm	TFM - FDA, Single TFM - FDA, Two piece CFR21 Section 177.1550
Surface Treatment	Internal Ra≤0.4μm External Ra≤0.6μm Other : Electrolytic Polishing
Working Temperature	-5°C~150°C
Working Pressure	6kg/cm ²
Operating Air Pressure	4~7kg/cm ²

Dimension

	1S	1.5S	2S	2.5S	3S
A	155	205	243	343	349
B	78	97	116	160	169
C	35	50	60	79	82
D	183	235	270	310	318



- 1 Body
- 2 Bonnet
- 3 Compressor
- 4 Spindle
- 5 Upper Cylinder
- 6 Piston
- 7 Indicator
- 8 Spring
- 9 Spring
- 10 Spring
- 11 Diaphragm Packing
- 12 Cushion Packing
- 13 Stud Bolt
- 14 Cap Nut
- 15 Spring Washer
- 16 Stop Pin
- 17 O-Ring
- 18 O-Ring
- 19 O-Ring
- 20 O-Ring
- 21 Air Connector
- 22 Spindle Adapter



T-PATTERN DIAPHRAGM VALVE

T-PATTERN DIAPHRAGM VALVE

SVM162

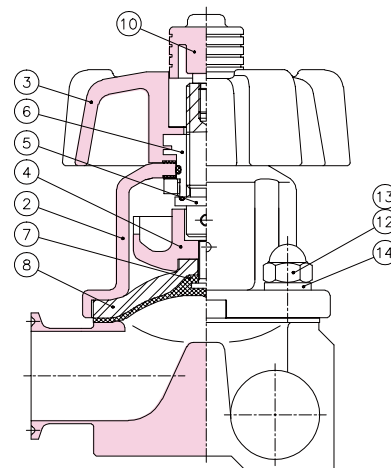
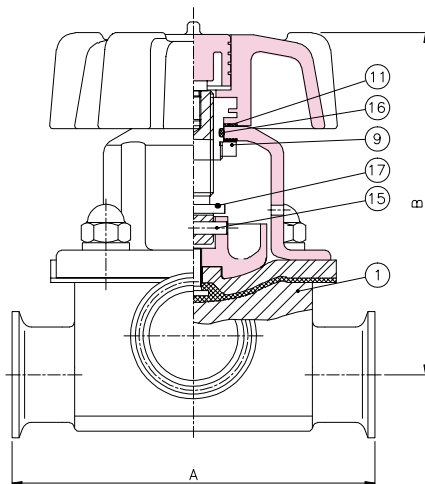
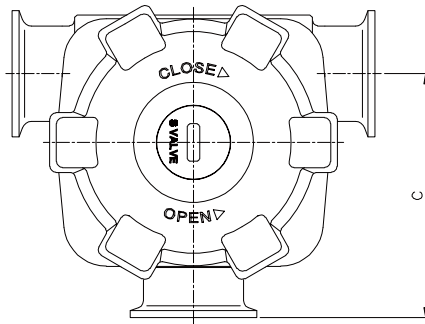


Features

Size	ISO 1/2S~3S
Connection	ISO Ferrule, Male, Weld
Material	Body : Forging STS 316L Bonnet : Casting STS304 Handwheel : M.C Nylon, STS304
Diaphragm	TFM - FDA, Single TFM - FDA, Two piece CFR21 Section 177.1550
Surface Treatment	Internal : Ra≤0.4μm External : Ra≤0.6μm Other : Electrolytic Polishing
Working Temperature	-5°C~150°C
Working Pressure	6kg/cm ²

Dimension

	1/2S	3/4S	1S	1.5S	2S	2.5S	3S
A	80	80	125	145	167	237	241
B	73	81	107	137	167	202	209
C	53.5	53.5	78	97	116	160	169



- 1 Body
- 2 Bonnet
- 3 Handwheel
- 4 Compressor
- 5 Spindle
- 6 Spindle Bushing
- 7 Diaphragm Packing
- 8 Cushion Packing
- 9 Lock Nut
- 10 Indicator
- 11 Sliding Washer
- 12 Stud Bolt
- 13 Cap Nut
- 14 Spring Washer
- 15 Stop Pin
- 16 O-Ring
- 17 O-Ring

PNEUMATIC T-PATTERN DIAPHRAGM VALVE

SVA182



Features

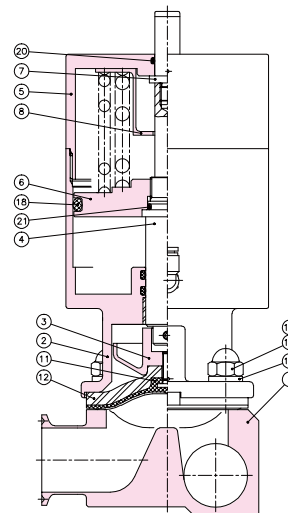
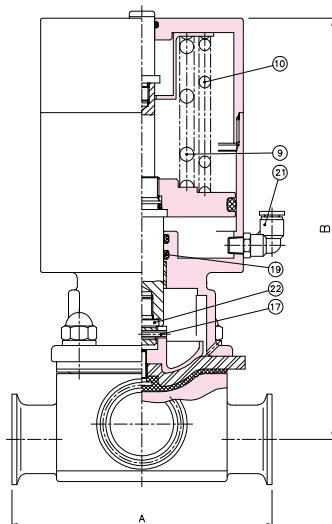
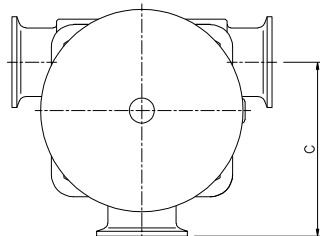
Size	ISO 1/2S~3S
Connection	ISO Ferrule, Male, Weld
Material	Body : Forging STS316L Bonnet : Casting STS304 Cylinder : STS304
Diaphragm	TFM - FDA, Single TFM - FDA, Two piece CFR21 Section 177.1550
Surface Treatment	Internal Ra≤0.4μm External Ra≤0.6μm Other : Electrolytic Polishing
Working Temperature	-5°C~150°C
Working Pressure	6kg/cm ²
Operating Air Pressure	4~7kg/cm ²

Dimension

	1/2S	3/4S	1S	1.5S	2S	2.5S	3S
A	80	80	125	145	167	237	241
B	127	135	183	235	270	310	318
C	53.5	53.5	78	97	116	160	169

34

DIAPHRAGM VALVES



- 1 Body
- 2 Bonnet
- 3 Compressor
- 4 Spindle
- 5 Upper Cylinder
- 6 Piston
- 7 Indicator
- 8 Spring
- 9 Spring
- 10 Spring
- 11 Diaphragm Packing
- 12 Cushion Packing
- 13 Stud Bolt
- 14 Cap Nut
- 15 Spring Washer
- 16 Stop Pin
- 17 O-Ring
- 18 O-Ring
- 19 O-Ring
- 20 O-Ring
- 21 Air Connector
- 22 Spindle Adapter



TANK BOTTOM DIAPHRAGM VALVE

TANK BOTTOM DIAPHRAGM VALVE

SVM160

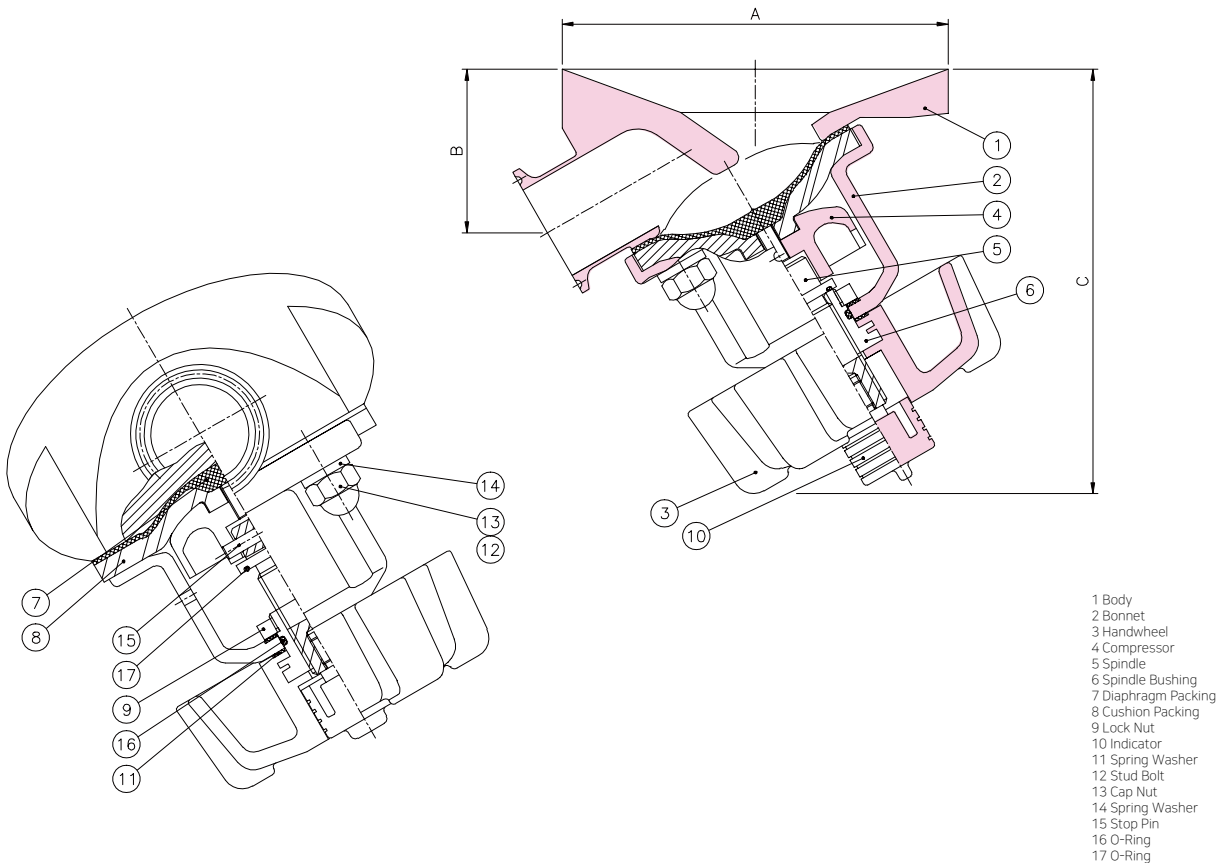


Features

Size	ISO 1/2S~3S
Connection	ISO Ferrule, Male, Weld
Material	Body : Forging STS 316L Bonnet : Casting STS304 Handwheel : M.C Nylon, STS304
Diaphragm	TFM - FDA, Single TFM - FDA, Two piece CFR21 Section 177.1550
Surface Treatment	Internal : Ra≤0.4μm External : Ra≤0.6μm Other : Electrolytic Polishing
Working Temperature	-5°C~150°C
Working Pressure	6kg/cm ²

Dimension

	1/2S	3/4S	1S	1.5S	2S	2.5S	3S
A	70	80	100	140	175	244	254
B	33.5	34.5	43	55	65.5	100	98
C	85	88	109	142	177	264	266



PNEUMATIC TANK BOTTOM DIAPHRAGM VALVE

SVA183

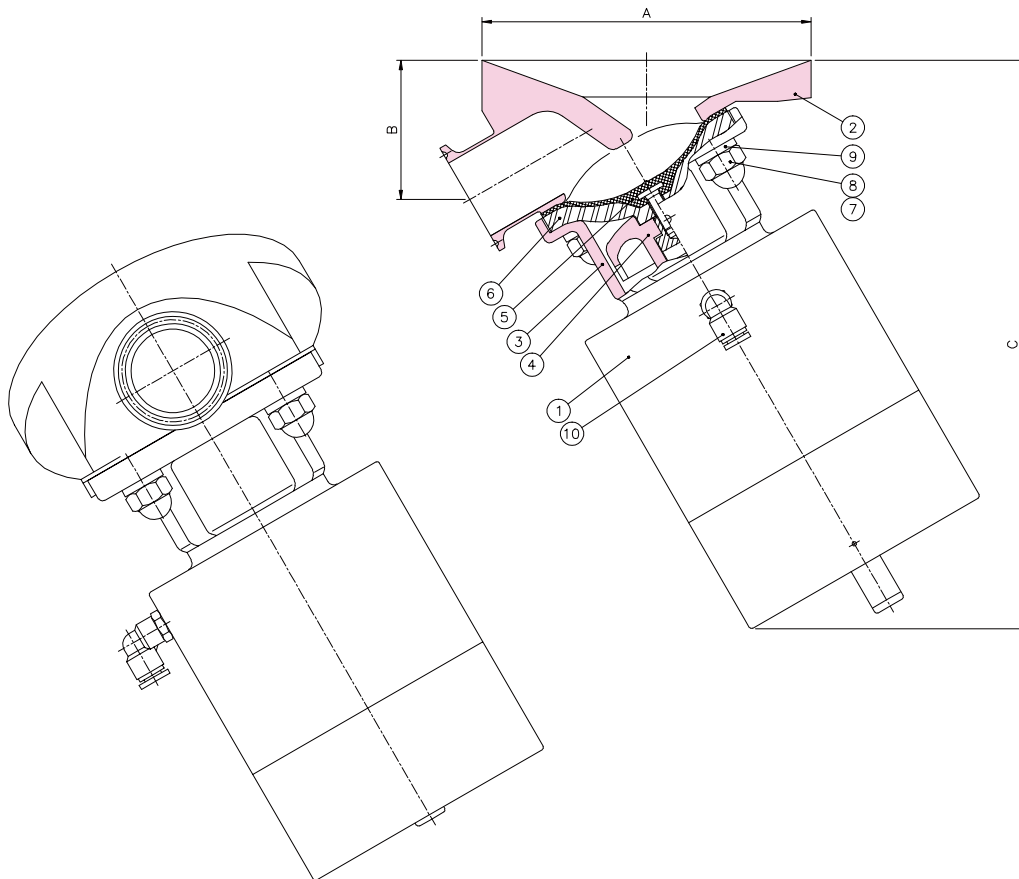


Features

Size	ISO 1/2S~3S
Connection	ISO Ferrule, Weld
Material	Body : Forging STS316L Bonnet : Casting STS304 Cylinder : STS304
Diaphragm	TFM - FDA, Single TFM - FDA, Two piece CFR21 Section 177.1550
Surface Treatment	Internal Ra≤0.4μm External Ra≤0.6μm Other : Electrolytic Polishing
Working Temperature	-5°C~150°C
Working Pressure	6kg/cm ²
Operating Air Pressure	4~7kg/cm ²

Dimension

	1/2S	3/4S	1S	1.5S	2S	2.5S	3S
A	70	80	100	140	175	244	254
B	33.5	34.5	43	55	65.5	100	98
C	138	141	187	243	283	349	351



- 1 Cylinder
- 2 Body
- 3 Bonnet
- 4 Compressor
- 5 Diaphragm Packing
- 6 Cushion Packing
- 7 Stud Bolt
- 8 Cap Nut
- 9 Spring Washer
- 10 Air Connector



MANUAL VALVES



BUTTERFLY VALVE

BUTTERFLY VALVE

SVM111

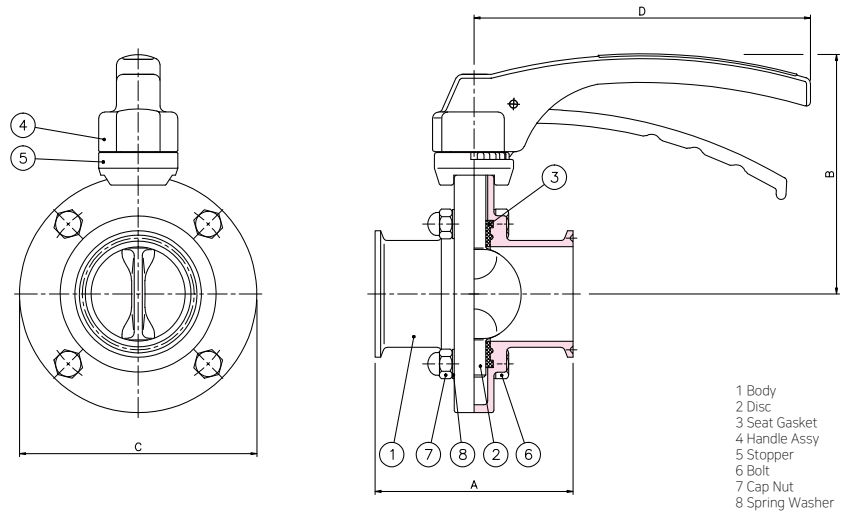


Features

Size	ISO 1S~4S
Connection	ISO Ferrule, Male, Weld
Material	Body : Casting STS316L, STS304 Handle : Casting STS304, Plastic
Seat	Silicon, EPDM
Surface Treatment	Internal $Ra \leq 0.4\mu m$ External $Ra \leq 0.6\mu m$ Other : Electrolytic Polishing
Working Temperature	-10°C~120°C
Working Pressure	6kg/cm ²

38

MANUAL VALVES

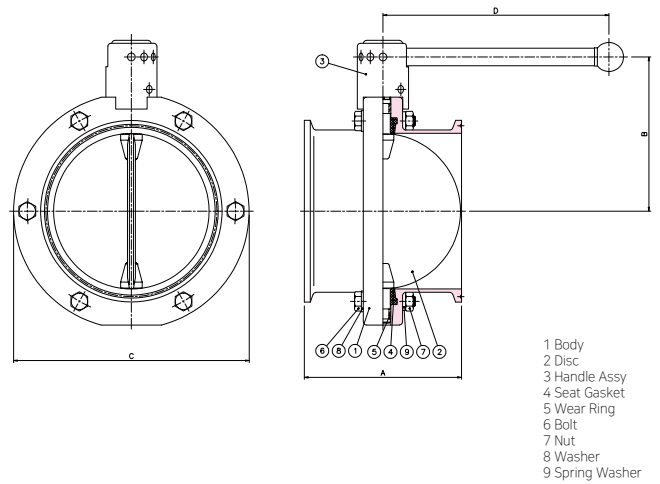


Dimension

	1S	1.5S	2S	2.5S	3S	4S
A	100	100	100	100	100	120
B	104	113	122	126	135	149
C	85	103	120	130	148	175
D	135	135	170	170	170	170

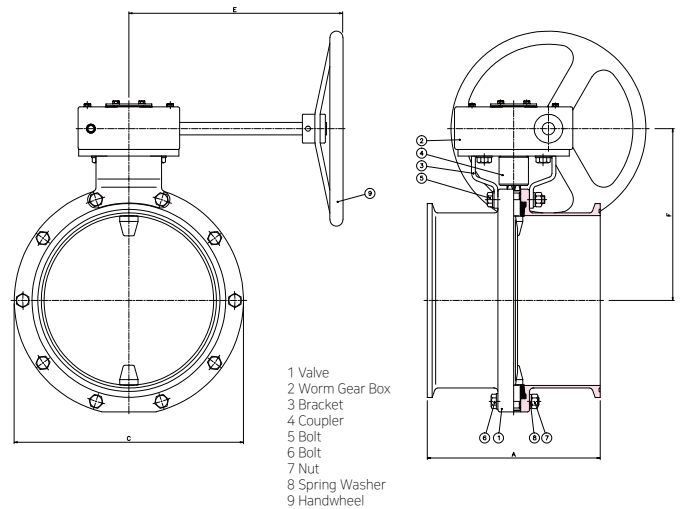
BUTTERFLY VALVE

SVM112A



BUTTERFLY VALVE - WORM GEAR TYPE

SVM112B



Features

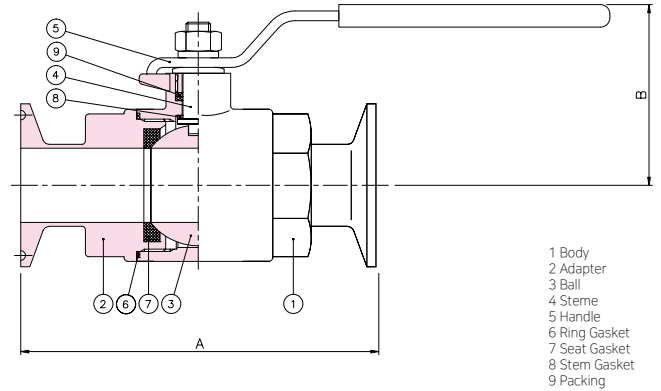
Size	ISO 5S~10S
Connection	ISO Ferrule, Male, Weld
Material	Body : Forging STS316L, STS304 Casting STS 316L, STS304 Handle : Casting STS304, Worm Gear
Seat	Silicon, EPDM
Surface Treatment	Internal Ra≤0.4μm External Ra≤0.6μm Other : Electrolytic Polishing
Working Temperature	-10°C~120°C
Working Pressure	6kg/cm ²

Dimension

	5S	6S	8S	10S
A	140	160	210	264
B	144.5	157	190.5	223
C	220	240	295	350
D	230	230	280	330
E	327	327	327	327
F	196	208	235	264

2WAY BALL VALVE (개조형)

SVM117A



- 1 Body
- 2 Adapter
- 3 Ball
- 4 Steme
- 5 Handle
- 6 Ring Gasket
- 7 Seat Gasket
- 8 Stem Gasket
- 9 Packing

Size	ISO 1S~2S
Connection	ISO Ferrule, Male, Weld
Material	Body : Casting STS 316L, STS304 Handle : STS304
Seat	Teflon
Surface Treatment	Internal Ra≤0.4μm External Ra≤0.6μm Other : Electrolytic Polishing
Working Temperature	-5°C~150°C
Working Pressure	6kg/cm ²

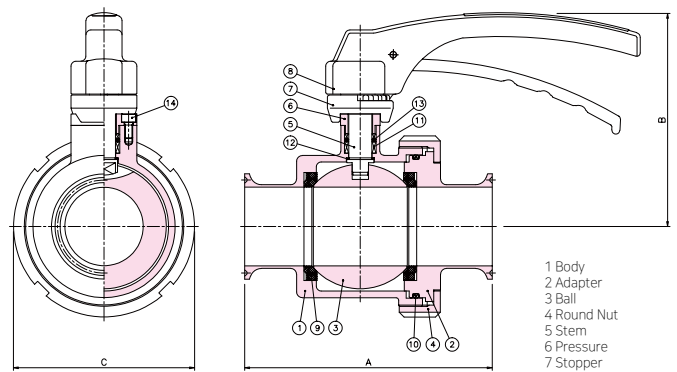
Dimension

	1S	1.5S	2S
A	110	140	165
B	56	77	90

40

2WAY BALL VALVE

SVM117



- 1 Body
- 2 Adapter
- 3 Ball
- 4 Round Nut
- 5 Stem
- 6 Pressure
- 7 Stopper
- 8 Handle Assy
- 9 Body Seat Gasket
- 10 O-Ring
- 11 V-Packing
- 12 Sleeve Packing
- 13 O-Ring
- 14 Wrench Bolt

Size	ISO 1S~2S
Connection	ISO Ferrule, Male, Weld
Material	Body : Casting STS 316L, STS304 Handle : STS304, Plastic
Seat	Teflon
Surface Treatment	Internal Ra≤0.4μm External Ra≤0.6μm Other : Electrolytic Polishing
Working Temperature	-5°C~150°C
Working Pressure	6kg/cm ²

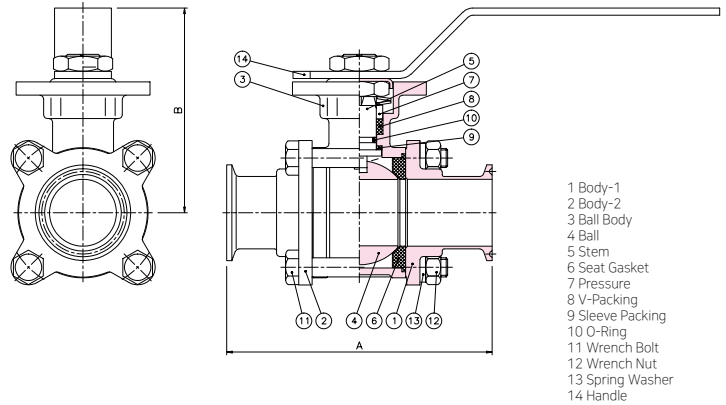
Dimension

	1S	1.5S	2S
A	120	140	150
B	119	123	130
C	85	98	110

MANUAL VALVES

3PIECE BALL VALVE

SVM171

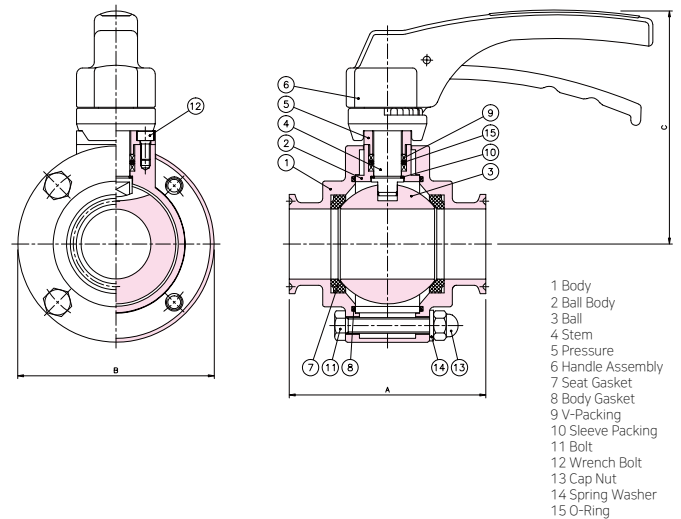


Size ISO 1/2S~4S
 Connection ISO Ferrule, Male, Weld
 Material Body : Casting STS 316L
 Handle : STS304
 Seat Teflon
 Surface Treatment Internal Ra≤0.4μm
 External Ra≤0.6μm
 Other : Electrolytic Polishing
 Working Temperature -5°C~150°C
 Working Pressure 6kg/cm²

Dimension								
	1/2S	3/4S	1S	1.5S	2S	2.5S	3S	4S
A	89	90	110	140	164	210	220	315
B	60	60	93	108	115	154	161	170

3PIECE 2WAY BALL VALVE

SVM165

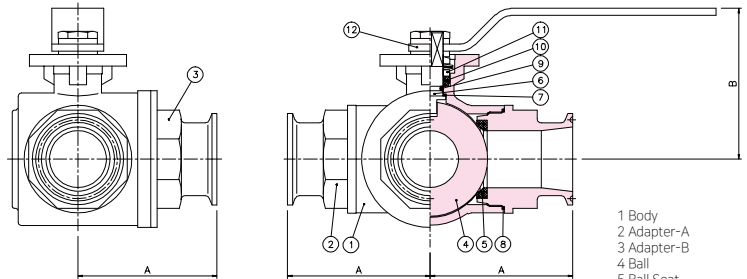


Size ISO 1S~2S
 Connection ISO Ferrule, Male, Weld
 Material Body : Casting STS 316L, STS304
 Handle : STS304, Plastic
 Seat Teflon
 Surface Treatment Internal Ra≤0.4μm
 External Ra≤0.6μm
 Other : Electrolytic Polishing
 Working Temperature -5°C~150°C
 Working Pressure 6kg/cm²

Dimension			
	1S	1.5S	2S
A	90	100	120
B	82	100	124
C	111	119	130

3WAY BALL VALVE

SVM122



- 1 Body
- 2 Adapter-A
- 3 Adapter-B
- 4 Ball
- 5 Ball Seat
- 6 Stem
- 7 Sleeve Pack
- 8 Adapter Ring
- 9 O-Ring
- 10 Stem Packing
- 11 Pressure
- 12 Handle

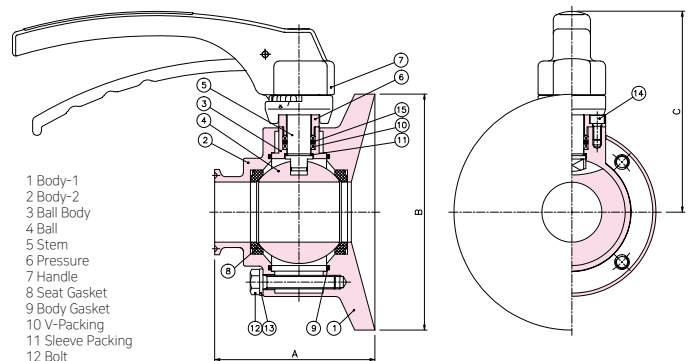
Size ISO 1/2S~2S
 Connection ISO Ferrule, Male, Weld
 Material Body : Casting STS316L, STS304
 Handle : STS304
 Seat Teflon
 Surface Treatment Internal Ra≤0.4μm
 External Ra≤0.6μm
 Other : Electrolytic Polishing
 Working Temperature -5°C~150°C
 Working Pressure 6kg/cm²

TYPE	From1	From2	From3	From4
L Port				
T Port				

Dimension					
	1/2S	3/4S	1S	1.5S	2S
A	51	56.5	62.5	75.5	87.5
B	62	64	82	98	108

FLUSH TANK BALL VALVE

SVM166



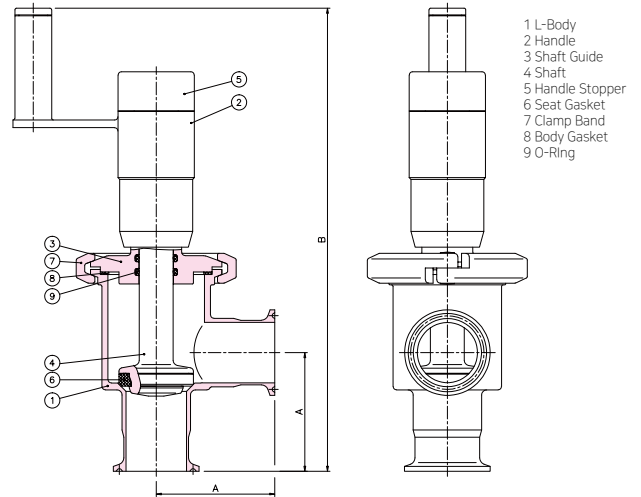
- 1 Body-1
- 2 Body-2
- 3 Ball Body
- 4 Ball
- 5 Stem
- 6 Pressure
- 7 Handle
- 8 Seat Gasket
- 9 Body Gasket
- 10 V-Packing
- 11 Sleeve Packing
- 12 Bolt
- 13 Spring Washer
- 14 Wrench Bolt
- 15 O-Ring

Size ISO 1S~2S
 Connection ISO Ferrule, Male, Weld
 Material Body : Casting STS 316L
 Handle : STS304, Plastic
 Seat Teflon
 Surface Treatment Internal Ra≤0.4μm
 External Ra≤0.6μm
 Other : Electrolytic Polishing
 Working Temperature -5°C~150°C
 Working Pressure 6kg/cm²

Dimension			
	1S	1.5S	2S
A	90	95	111
B	124	140	155
C	111	119	130

L - HAND VALVE

SVM132



- 1 L-Body
- 2 Handle
- 3 Shaft Guide
- 4 Shaft
- 5 Handle Stopper
- 6 Seat Gasket
- 7 Clamp Band
- 8 Body Gasket
- 9 O-Ring

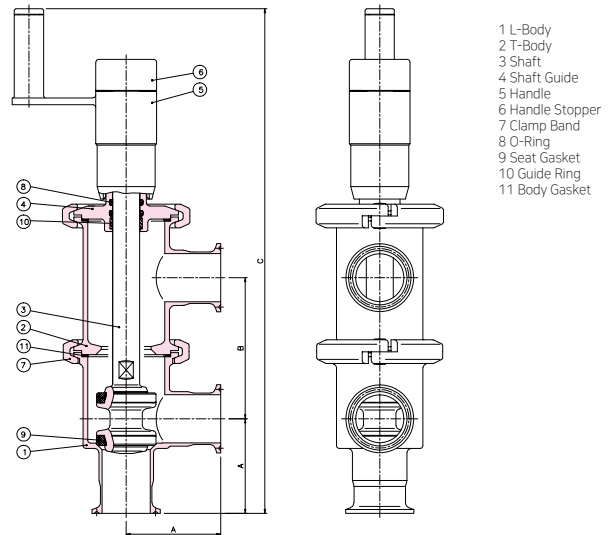
Size ISO 1S~4S
 Connection ISO Ferrule, Male, Weld
 Material Body : Casting STS 316L, 304
 Handle : STS304
 Seat Teflon
 Surface Treatment Internal Ra≤0.4μm
 External Ra≤0.6μm
 Other : Electrolytic Polishing
 Working Temperature -5°C~150°C
 Working Pressure 6kg/cm²

Dimension

	1S	1.5S	2S	2.5S	3S	4S
A	55	70	82	105	110	132.5
B	236	273	290	326	339	474

F - HAND VALVE

SVM140



- 1 L-Body
- 2 T-Body
- 3 Shaft
- 4 Shaft Guide
- 5 Handle
- 6 Handle Stopper
- 7 Clamp Band
- 8 O-Ring
- 9 Seat Gasket
- 10 Guide Ring
- 11 Body Gasket

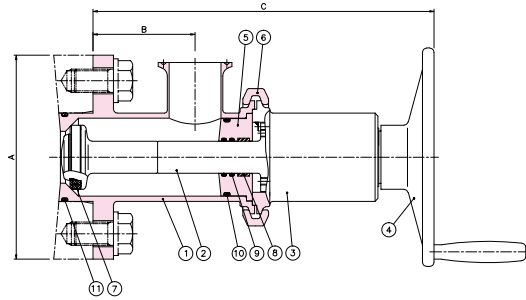
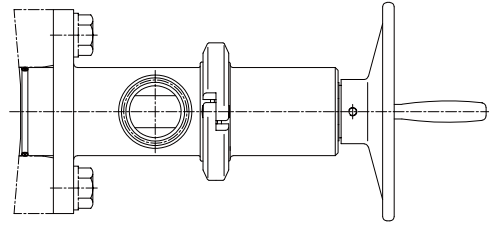
Size ISO 1S~4S
 Connection ISO Ferrule, Male, Weld
 Material Body : Casting STS 316L, 304
 Handle : STS304
 Seat Teflon
 Surface Treatment Internal Ra≤0.4μm
 External Ra≤0.6μm
 Other : Electrolytic Polishing
 Working Temperature -5°C~150°C
 Working Pressure 6kg/cm²

Dimension

	1S	1.5S	2S	2.5S	3S	4S
A	55	70	82	105	110	132.5
B	75	105	130	142	164	205
C	312	374	429	472	505	679

TANK BOTTOM VALVE

SVM162



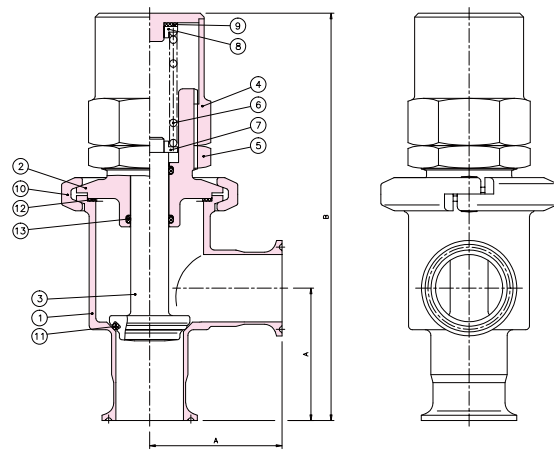
- 1 Body
- 2 Spindle
- 3 Bonnet
- 4 Handwheel
- 5 Spindle Guide
- 6 Clamp Band
- 7 Seat Gasket
- 8 Guide Ring
- 9 O-Ring
- 10 O-Ring
- 11 O-Ring

Size ISO 1S~3S
 Connection ISO Ferrule, Male, Weld
 Material Body : Forging STS 316L, 304
 Handle : STS304
 Seat Teflon
 Surface Treatment Internal Ra≤0.4μm
 External Ra≤0.6μm
 Other : Electrolytic Polishing
 Working Temperature -5°C~150°C
 Working Pressure 6kg/cm²

Dimension					
	1S	1.5S	2S	2.5S	3S
A	140	140	155	185	210
B	70	70	85	100	125
C	228	234	263	292	323

RELIEF VALVE

SVM167



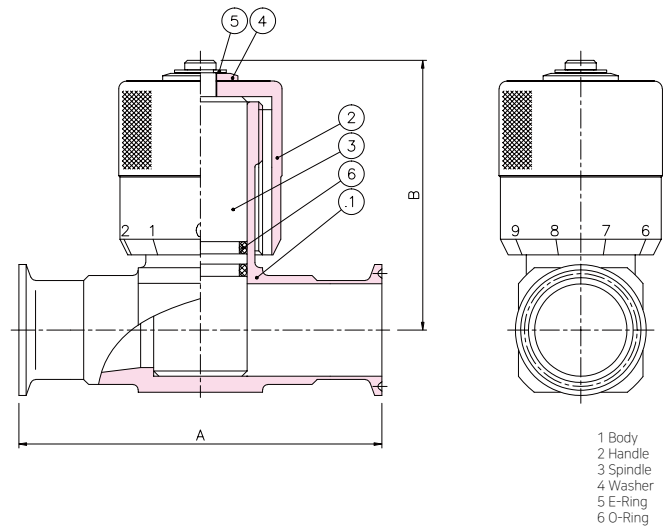
- 1 L-Body
- 2 Spring Cover Body
- 3 Shaft
- 4 Handwheel
- 5 Lock Nut
- 6 Spring
- 7 Lower Bushing
- 8 Upper Bushing
- 9 Slide
- 10 Clamp Band
- 11 O-Ring
- 12 Body Gasket
- 13 O-Ring

Size ISO 1S~3S
 Connection ISO Ferrule, Male, Weld
 Material Body : Casting STS 316L, 304
 Handle : STS304
 Seat Silicon, Teflon
 Surface Treatment Internal Ra≤0.4μm
 External Ra≤0.6μm
 Other : Electrolytic Polishing
 Working Temperature -5°C~150°C
 Working Pressure 2~10kg/cm²

Dimension					
	1S	1.5S	2S	2.5S	3S
A	55	70	82	105	110
B	164	216	228	291	303

MICRO VALVE

SVM163



- 1 Body
- 2 Handle
- 3 Spindle
- 4 Washer
- 5 E-Ring
- 6 O-Ring

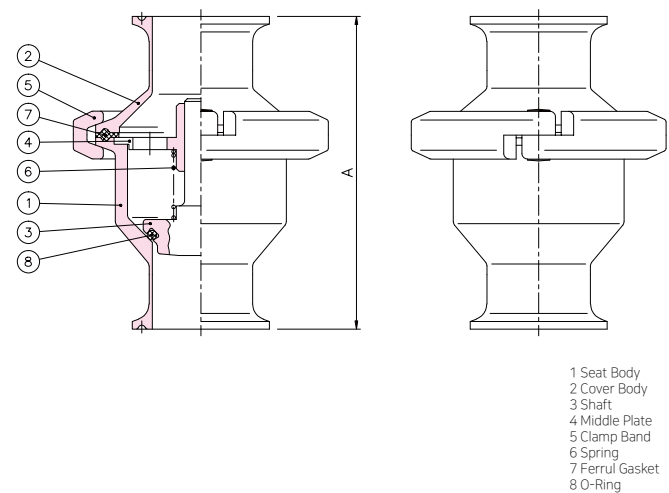
Size ISO 3/4S~3S
 Connection ISO Ferrule, Male, Weld
 Material Body : Forging STS316L, 304
 Handle : STS304
 Seat Silicon, EPDM
 Surface Treatment Internal Ra≤0.4μm
 External Ra≤0.6μm
 Other : Electrolytic Polishing
 Working Temperature -5°C~150°C
 Working Pressure 6kg/cm²

Dimension

	3/4S	1S	1.5S	2S	2.5S	3S
A	80	110	140	164	210	220
B	64	82	104	120	162	175

CHECK VALVE

SVM123



- 1 Seat Body
- 2 Cover Body
- 3 Shaft
- 4 Middle Plate
- 5 Clamp Band
- 6 Spring
- 7 Ferrul Gasket
- 8 O-Ring

Size ISO 3/4S~4S
 Connection ISO Ferrule, Male, Weld
 Material Body : Forging STS316L, 304
 Casting STS304
 Seat EPDM, Silicon, Teflon
 Surface Treatment Internal Ra≤0.4μm
 External Ra≤0.6μm
 Other : Electrolytic Polishing
 Working Temperature -5°C~150°C
 Working Pressure 2~6kg/cm²

Dimension

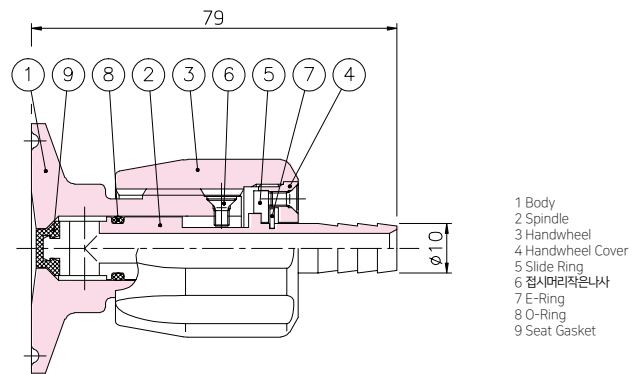
	3/4S	1S	1.5S	2S	2.5S	3S	4S
A	95	110	115	125	160	175	220

SAMPLE COCK

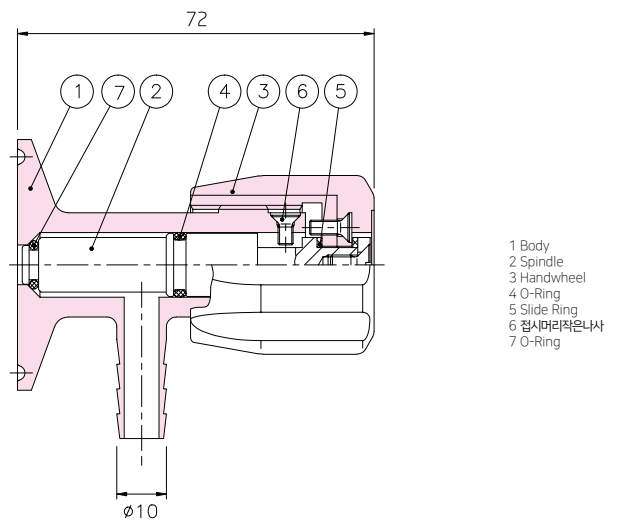
Features

Connection	ISO Ferrule, Male, etc KS PT Screw, etc
Material	Body : Forging STS316L, STS304 Handle : STS304, M.C Nylon
Seat	Viton, Teflon
Surface Treatment	Internal Ra≤0.64μm External Ra≤0.64μm
Working Temperature	-10°C~120°C
Working Pressure	6kg/cm ²

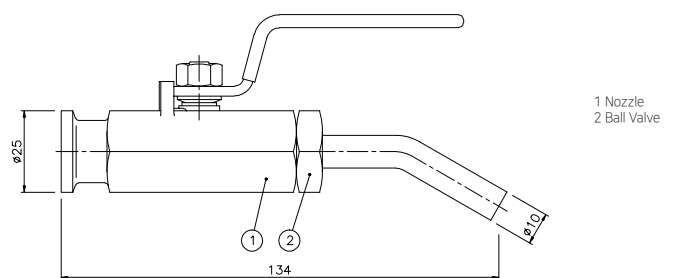
SAMPLE COCK - A
SVM155



SAMPLE COCK - L
SVM155L



SAMPLE COCK - B
SVM164



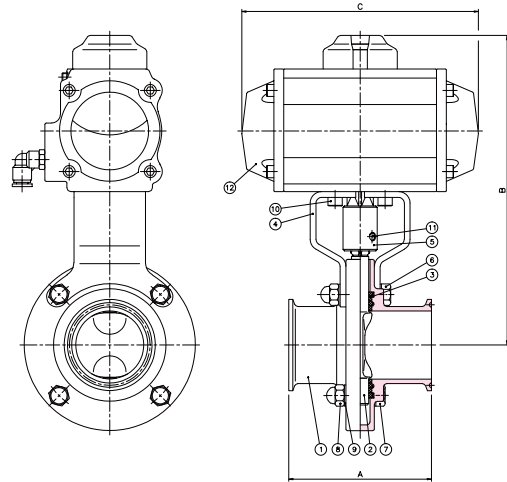
S - V A L V E P R O D U C T S C A T A L O G



PNEUMATIC VALVES

PNEUMATIC BUTTERFLY VALVE

SVA114



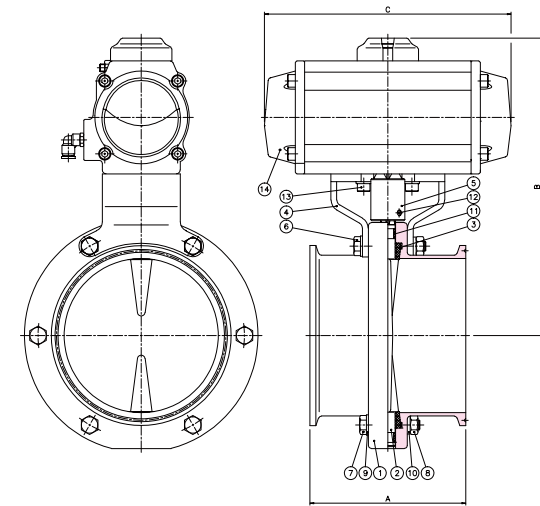
- 1 Body
- 2 Disc
- 3 Seat Gasket
- 4 Bracket
- 5 Coupler
- 6 Bolt
- 7 Bolt
- 8 Cap Nut
- 9 Spring Washer
- 10 Wrench Bolt
- 11 None Head Wrench Bolt
- 12 Actuator

Size ISO 1S~4S
 Connection ISO Ferrule, Male, Weld
 Material Body : Forging STS316L, 304
 Casting STS 316L, 304
 Actuator : AL
 Seat Silicon, EPDM
 Actuator AIR TORQUE
 Single Acting, Double Acting
 ISO Flange
 Surface Treatment Internal Ra≤0.4μm
 External Ra≤0.6μm
 Other : Electrolytic Polishing
 Working Temperature -10°C~120°C
 Working Pressure 6kg/cm²

Dimension						
	1S	1.5S	2S	2.5S	3S	4S
A	100	100	100	100	100	120
B	183	209	217	239	248	262
C	144	166	166	213	213	213

PNEUMATIC BUTTERFLY VALVE

SVA114A



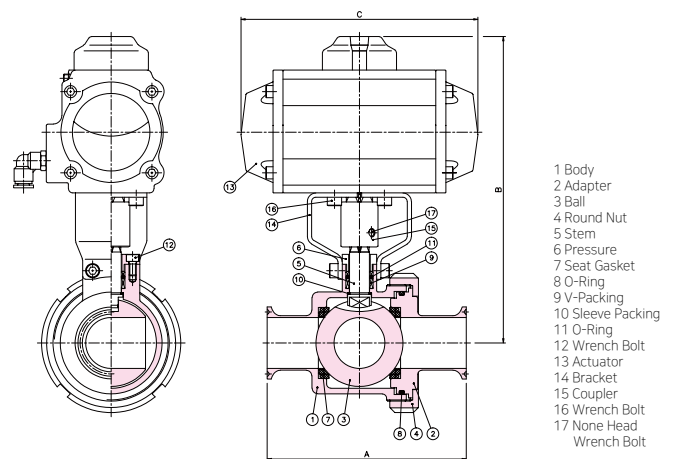
- 1 Body
- 2 Disc
- 3 Seat Gasket
- 4 Bracket
- 5 Coupler
- 6 Bolt
- 7 Bolt
- 8 Nut
- 9 Washer
- 10 Spring Washer
- 11 Wear Ring
- 12 None Head Wrench Bolt
- 13 Wrench Bolt
- 14 Actuator

Size ISO 5S~10S
 Connection ISO Ferrule, Male, Weld
 Material Body : Forging STS316L, 304
 Casting STS 316L, 304
 Actuator : AL
 Seat Silicon, EPDM
 Actuator AIR TORQUE
 Single Acting, Double Acting
 ISO Flange
 Surface Treatment Internal Ra≤0.4μm
 External Ra≤0.6μm
 Other : Electrolytic Polishing
 Working Temperature -10°C~120°C
 Working Pressure 6kg/cm²

Dimension				
	5S	6S	8S	10S
A	140	160	210	264
B	293	306	353	422
C	253	253	296	352

PNEUMATIC 2WAY BALL VALVE

SVA115A



- 1 Body
- 2 Adapter
- 3 Ball
- 4 Round Nut
- 5 Stem
- 6 Pressure
- 7 Seat Gasket
- 8 O-Ring
- 9 V-Packing
- 10 Sleeve Packing
- 11 O-Ring
- 12 Wrench Bolt
- 13 Actuator
- 14 Bracket
- 15 Coupler
- 16 Wrench Bolt
- 17 None Head Wrench Bolt

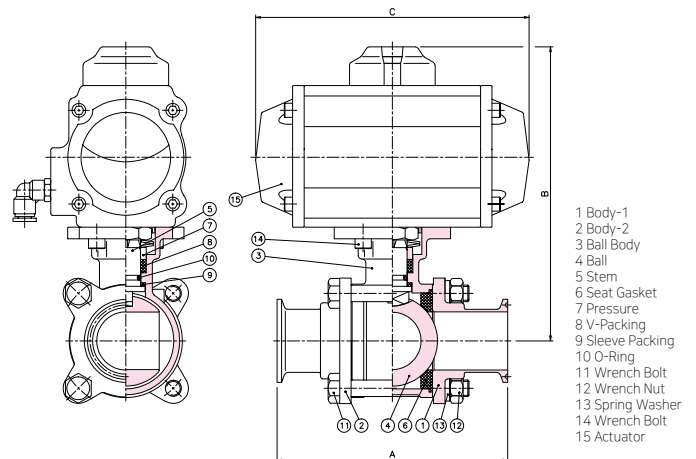
Size ISO 1S~2S
 Connection ISO Ferrule, Male, Weld
 Material Body : Casting STS 316L, 304
 Actuator : AL
 Seat Teflon
 Actuator AIR TORQUE
 Single Acting, Double Acting
 ISO Flange
 Surface Treatment Internal Ra≤0.4μm
 External Ra≤0.6μm
 Other : Electrolytic Polishing
 Working Temperature -5°C~150°C
 Working Pressure 6kg/cm²

Dimension

	1S	1.5S	2S
A	120	140	150
B	193	215	221
C	144	166	166

PNEUMATIC 3PIECE BALL VALVE

SVA115



- 1 Body-1
- 2 Body-2
- 3 Ball Body
- 4 Ball
- 5 Stem
- 6 Seat Gasket
- 7 Pressure
- 8 V-Packing
- 9 Sleeve Packing
- 10 O-Ring
- 11 Wrench Bolt
- 12 Wrench Nut
- 13 Spring Washer
- 14 Wrench Bolt
- 15 Actuator

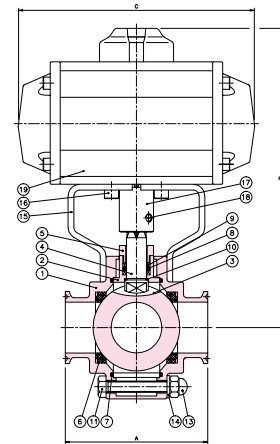
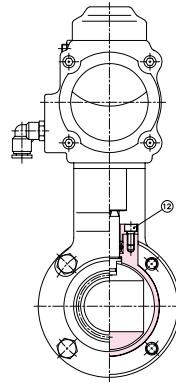
Size ISO 1/2S~4S
 Connection ISO Ferrule, Male, Weld
 Material Body : Casting STS 316L
 Actuator : AL
 Seat Teflon
 Actuator AIR TORQUE
 Single Acting, Double Acting
 ISO Flange
 Surface Treatment Internal Ra≤0.4μm
 External Ra≤0.6μm
 Other : Electrolytic Polishing
 Working Temperature -5°C~150°C
 Working Pressure 6kg/cm²

Dimension

	1/2S	3/4S	1S	1.5S	2S	2.5S	3S	4S
A	89	90	110	140	164	210	220	315
B	130	130	148	179	204	247	272	310
C	144	144	144	166	213	253	296	352

PNEUMATIC 3PIECE 2WAY BALL VALVE

SVA123



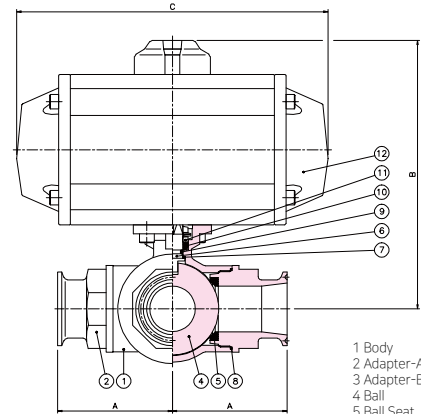
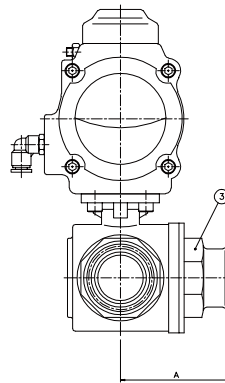
- 1 Body
- 2 Ball Body
- 3 Ball
- 4 Stem
- 5 Pressure
- 6 Seat Gasket
- 7 Body Gasket
- 8 O-Ring
- 9 V-Packing
- 10 Sleeve Packing
- 11 Bolt
- 12 Wrench Bolt
- 13 Cap Nut
- 14 Spring Washer
- 15 Bracket
- 16 Wrench Bolt
- 17 Coupler
- 18 None Head Wrench Bolt
- 19 Actuator

Size ISO 1S~2S
 Connection ISO Ferrule, Male, Weld
 Material Body : Casting STS 316L, 304
 Actuator : AL
 Seat Teflon
 Actuator AIR TORQUE
 Single Acting, Double Acting
 ISO Flange
 Surface Treatment Internal Ra≤0.4μm
 External Ra≤0.6μm
 Other : Electrolytic Polishing
 Working Temperature -5°C~150°C
 Working Pressure 6kg/cm²

	1S	1.5S	2S
A	90	100	120
B	202	210	238
C	166	166	213

PNEUMATIC 3WAY BALL VALVE

SVA116



- 1 Body
- 2 Adapter-A
- 3 Adapter-B
- 4 Ball
- 5 Ball Seat
- 6 Steme
- 7 Sleeve Packing
- 8 Adapter Ring
- 9 O-Ring
- 10 Stem Packing
- 11 Pressure
- 12 Actuator

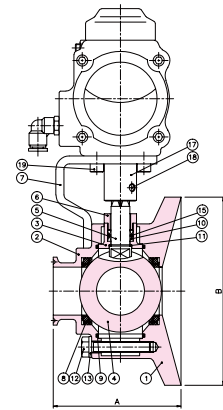
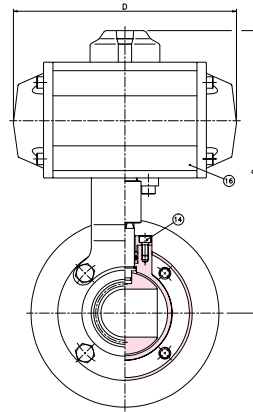
Size ISO 1/2S~2S
 Connection ISO Ferrule, Male, Weld
 Material Body : Casting STS 316L, 304
 Actuator : AL
 Seat Teflon
 Actuator AIR TORQUE
 Single Acting, Double Acting
 ISO Flange
 Surface Treatment Internal Ra≤0.4μm
 External Ra≤0.6μm
 Other : Electrolytic Polishing
 Working Temperature -5°C~150°C
 Working Pressure 6kg/cm²

TYPE	From1	From2	From3	From4
L Port				
T Port				

	1/2S	3/4S	1S	1.5S	2S
A	51	56.5	62.5	75.5	87.5
B	155	157	159	190	214
C	144	144	166	213	253

PNEUMATIC FLUSH TANK BALL VALVE

SVA112



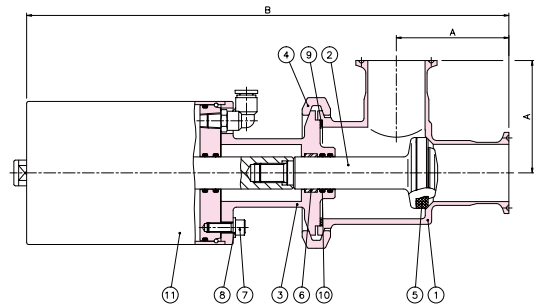
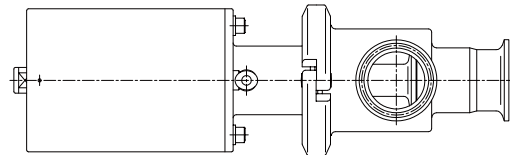
- 1 Body-1
- 2 Body-2
- 3 Ball Body
- 4 Ball
- 5 Stem
- 6 Pressure
- 7 Bracket
- 8 Seat Gasket
- 9 Body Gasket
- 10 V-Packing
- 11 Sleeve Packing
- 12 Bolt
- 13 Spring Washer
- 14 Wrench Bolt
- 15 O-Ring
- 16 Actuator
- 17 Coupler
- 18 None Head Wrench Bolt
- 19 Wrench Bolt

Size ISO 1S~2S
 Connection ISO Ferrule, Male, Weld
 Material Body : Casting STS 316L, 304
 Actuator : AL
 Seat Teflon
 Actuator AIR TORQUE
 Single Acting, Double Acting
 ISO Flange
 Surface Treatment Internal Ra≤0.4μm
 External Ra≤0.6μm
 Other : Electrolytic Polishing
 Working Temperature -5°C~150°C
 Working Pressure 6kg/cm²

Dimension			
	1S	1.5S	2S
A	90	95	111
B	124	140	155
C	202	210	243
D	166	166	213

PNEUMATIC LE VALVE

SVA111



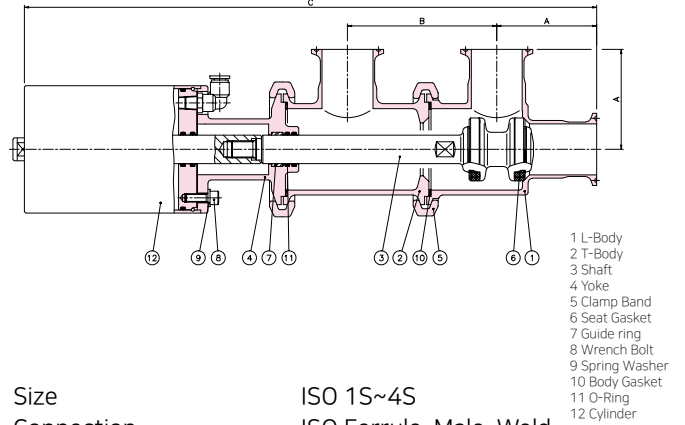
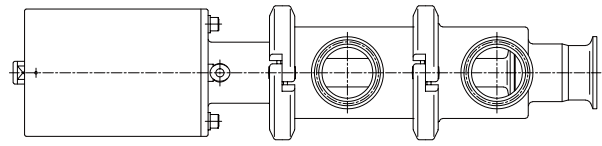
- 1 L-Body
- 2 Shaft
- 3 Yoke
- 4 Clamp Band
- 5 Seat Gasket
- 6 Guide ring
- 7 Wrench Bolt
- 8 Spring Washer
- 9 Body Gasket
- 10 O-Ring
- 11 Cylinder

Size ISO 1S~4S
 Connection ISO Ferrule, Male, Weld
 Material Body : Casting STS 316L, 304
 Cylinder : STS304
 Seat Teflon
 Surface Treatment Internal Ra≤0.4μm
 External Ra≤0.6μm
 Other : Electrolytic Polishing
 Working Temperature -5°C~150°C
 Working Pressure 6kg/cm²

Dimension						
	1S	1.5S	2S	2.5S	3S	4S
A	55	70	82	105	110	132.5
B	272	300	314	389	402	469

PNEUMATIC FE VALVE

SVA113



- 1 L-Body
- 2 T-Body
- 3 Shaft
- 4 Yoke
- 5 Clamp Band
- 6 Seat Gasket
- 7 Guide ring
- 8 Wrench Bolt
- 9 Spring Washer
- 10 Body Gasket
- 11 O-Ring
- 12 Cylinder

Size ISO 1S~4S
 Connection ISO Ferrule, Male, Weld
 Material Body : Casting STS 316L, 304
 Cylinder : STS304
 Seat Teflon
 Surface Treatment Internal Ra≤0.4μm
 External Ra≤0.6μm
 Other : Electrolytic Polishing
 Working Temperature -5°C~150°C
 Working Pressure 6kg/cm²

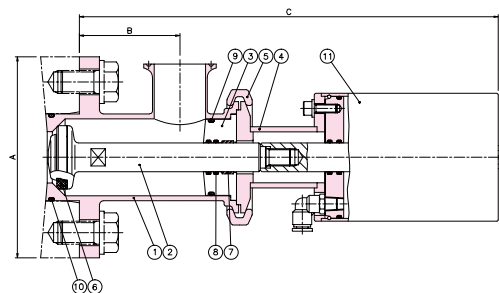
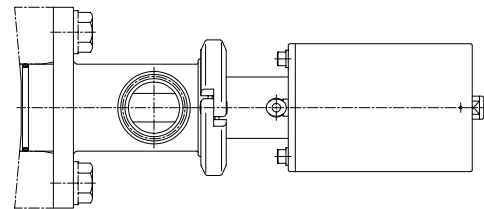
Dimension

	1S	1.5S	2S	2.5S	3S	4S
A	55	70	82	105	110	132.5
B	75	105	130	142	164	205
C	289	400	453	535	568	676

52

PNEUMATIC TANK BOTTOM VALVE

SVA121



- 1 Body
- 2 Shaft
- 3 Shaft Guide
- 4 Yoke
- 5 Clamp Band
- 6 Seat Gasket
- 7 Guide ring
- 8 O-Ring
- 9 O-Ring
- 10 O-Ring
- 11 Cylinder

Size ISO 1S~3S
 Connection ISO Ferrule, Male, Weld
 Material Body : Casting STS 316L, 304
 Cylinder : STS304
 Seat Teflon
 Surface Treatment Internal Ra≤0.4μm
 External Ra≤0.6μm
 Other : Electrolytic Polishing
 Working Temperature -5°C~150°C
 Working Pressure 6kg/cm²

Dimension

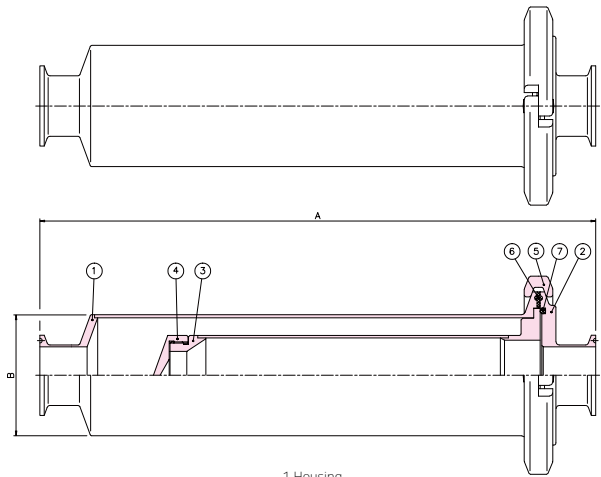
	1S	1.5S	2S	2.5S	3S
A	140	140	155	185	210
B	70	70	85	100	125
C	286	292	317	382	448

PNEUMATIC VALVES



ACCESSORIES

TUBE STRAINER - SI -
SVE117

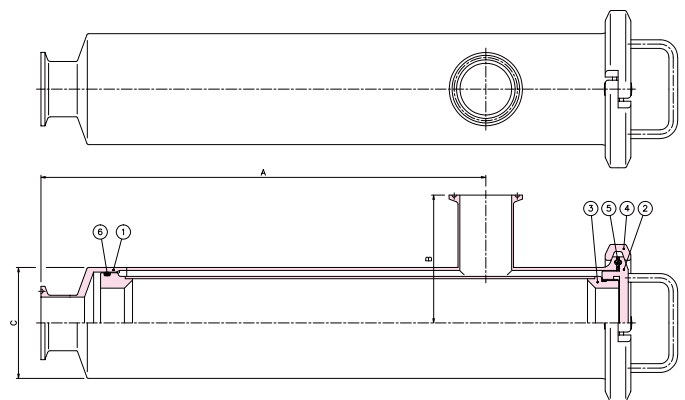


- 1 Housing
- 2 Outlet Cap
- 3 Element
- 4 Cap
- 5 Clamp Band
- 6 Ferrule Gasket
- 7 O-Ring

Dimension

	1S	1.5S	2S	2.5S	3S	4S
A	300	350	400	450	500	700
B	76.3	76.3	101.6	114.3	114.3	165.2

TUBE STRAINER - SL -
SVE116



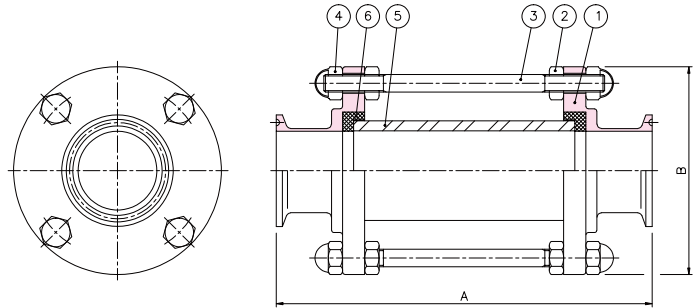
- 1 Housing
- 2 Cap
- 3 Element
- 4 Clamp Band
- 5 Ferrule Gasket
- 6 O-Ring

Dimension

	1S	1.5S	2S	2.5S	3S	4S
A	256	306	362	400	450	481
B	88	88	101	117	117	143
C	76.3	76.3	101.6	114.3	114.3	165.2

SIGHT GLASS -SI-

SVE133

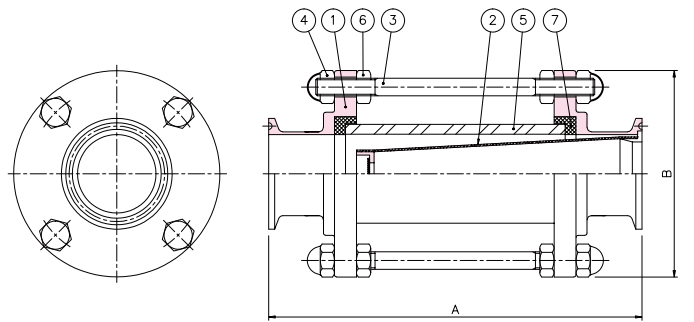


- 1 Body
- 2 Nut
- 3 Rod Bolt
- 4 Cap Nut
- 5 Glass
- 6 Gasket

	1/2S	3/4S	1S	1.5S	2S	2.5S	3S	4S
A	100	100	170	170	190	190	190	194
B	56	65	80	94	114	131	140	170

FILTER SIGHT GLASS -SI-

SVE111

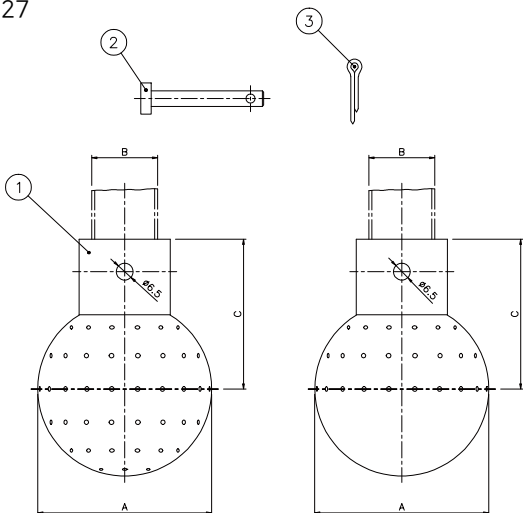


- 1 Body
- 2 Element
- 3 Rod Bolt
- 4 Cap Nut
- 5 Glass
- 6 Nut
- 7 Gasket

	1/2S	3/4S	1S	1.5S	2S	2.5S	3S	4S
A	100	100	170	170	190	190	190	194
B	56	65	80	94	114	131	140	170

SPRAY BALL (A) -FIX-

SVE127

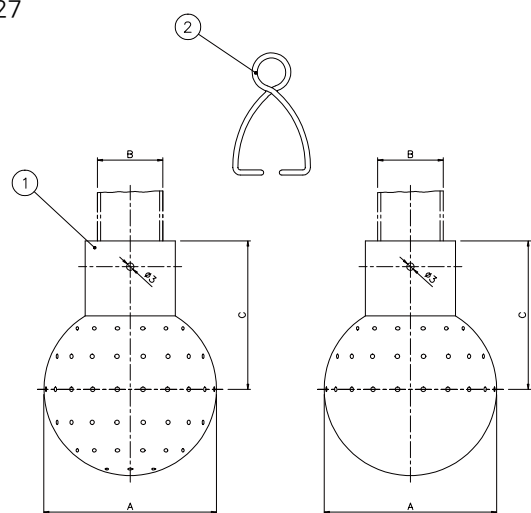


- 1 Clip Ball
- 2 Pin
- 3 Split Pin

	1S	1.5S	2S
A	90	100	100
B	25.4	38.1	50.8
C	65	75	75

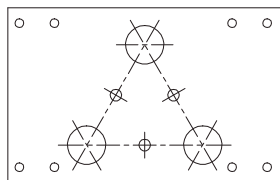
SPRAY BALL (B) -FIX-

SVE127

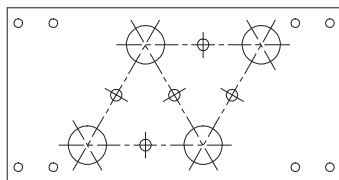


- 1 Clip
- 2 Clip Ball

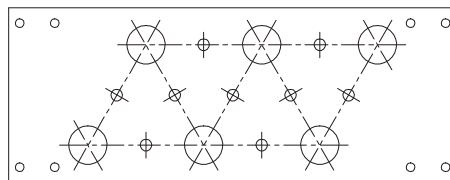
MULTIWAY PANELS



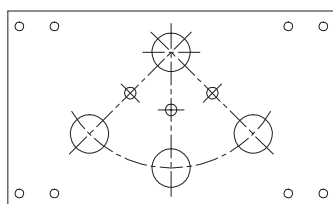
MP-A-3P



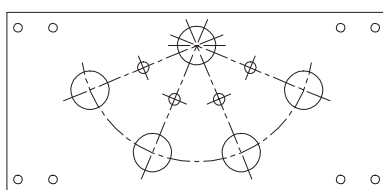
MP-A-4P



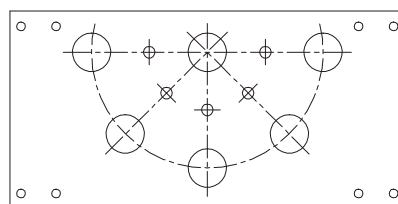
MP-A-6P



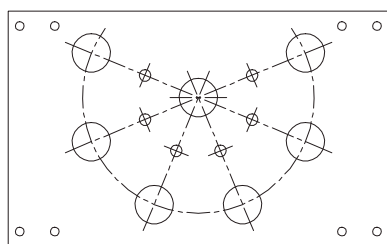
MP-B-4P



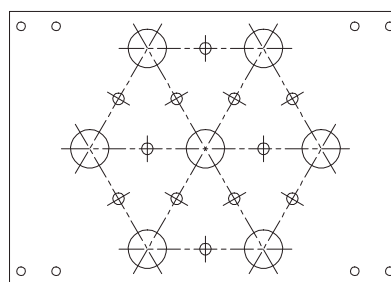
MP-B-5P



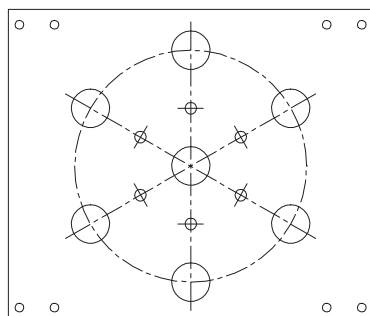
MP-B-6P



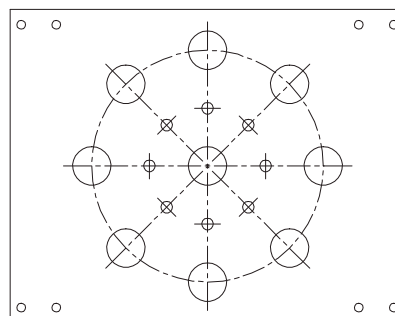
MP-C-7PA



MP-D-7P



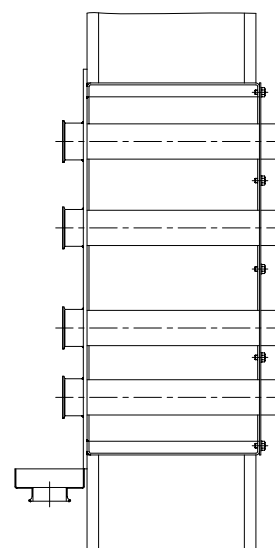
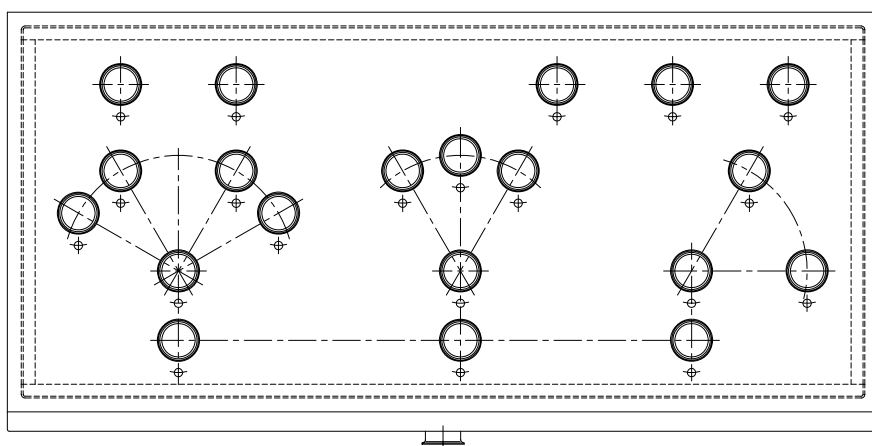
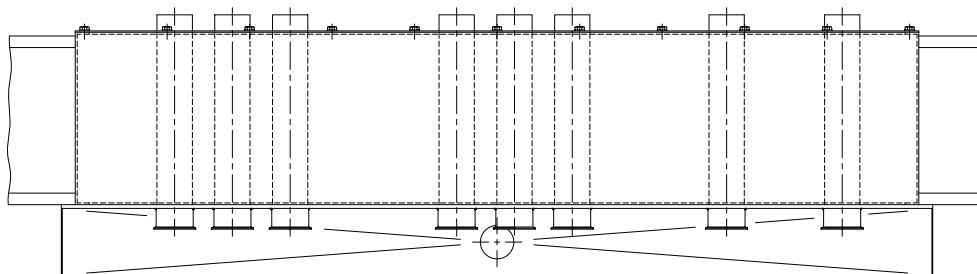
MP-C-7PB



MP-C-9P

TRANSFER PANEL ASSEMBLY

SVE122

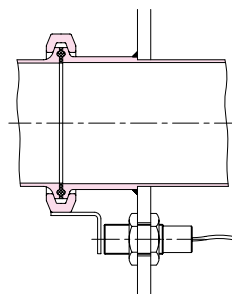


56

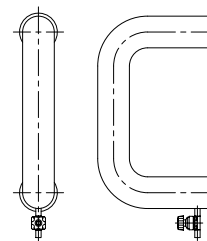
ACCESSORIES

Features

Size	ISO 1/2S~6S
Connection	ISO Ferrule, Weld, Flange etc Teflon, Epdm Gasket Available Clamp Band
Material	Pannel : STS316L Nozzle : STS316L Frame : STS304
Surface Treatment	Internal Ra≤0.4μm External Ra≤0.8~1μm
Option	Proximity Switch Electrolytic Polishing Diaphragm Valve In Jumper



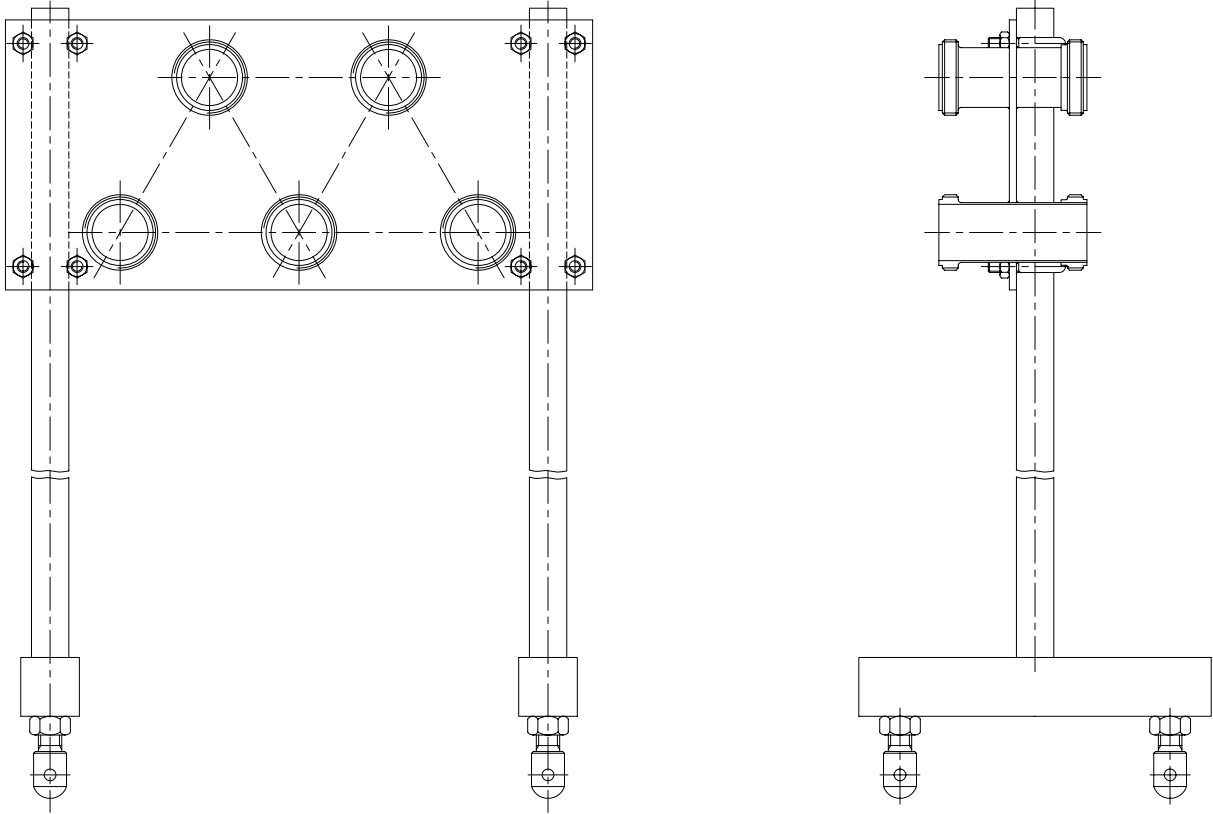
Sensor Point Detail



Jumper band Detail

MULTIWAY PANEL ASSEMBLY

SVE121

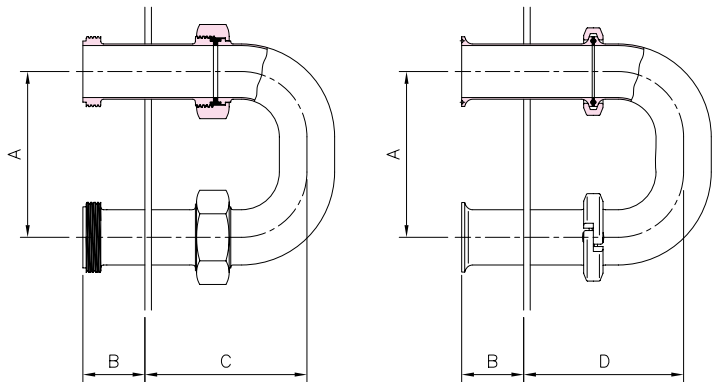


MULTIWAY PANEL U-BENE

SVE134

Dimension

	A	B	C	D
1S	100	60	119	117
1.5S	114.4	60	134	132
2S	152.4	60	146	144
2.5S	190.6	60	169	167
3S	254	60	174	172
4S	254	60	226.5	224.5

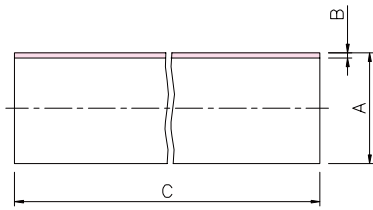




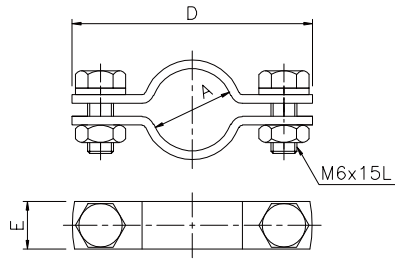
FITTINGS



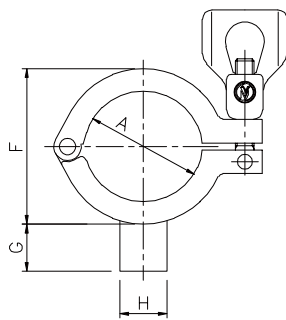
WELD FITTINGS



**PIPE
SVW111**

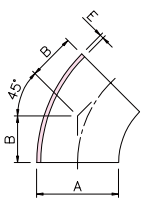


**PIPE HANGER - PLATE
SVW121-1**

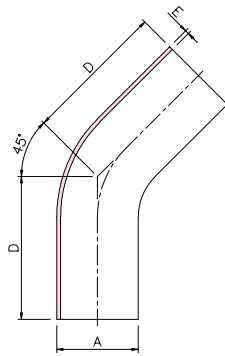


**PIPE HANGER
SVW121**

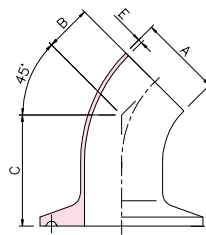
	A	B	C	D	E	F	G	H
1/2S	12.7	1.24	4000, 6000	48.9	20	22.5	19	10
3/4S	19.05	1.65	4000, 6000	55	20	28.9	19.6	10
1S	25.4	1.2	6000	-	-	41.6	17.6	17
1.5S	38.1	1.2	6000	-	-	54	19	17.2
2S	50.8	1.5	6000	-	-	66.7	20	17.2
2.5S	63.5	1.5	6000	-	-	81.3	20	17.2
3S	76.3	2	6000	-	-	94.4	20	17.2
4S	101.6	2	6000	-	-	119.2	20	17.2



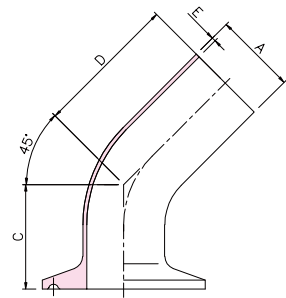
**45° ELBOW -W-
SVW112**



**LONG 45° ELBOW -W-
SVW122**

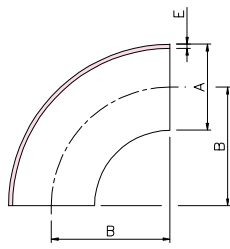


**45° ELBOW -1F-
SVW112-1**

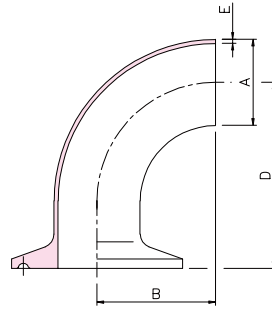


**LONG 45° ELBOW -1F-
SVW122-1**

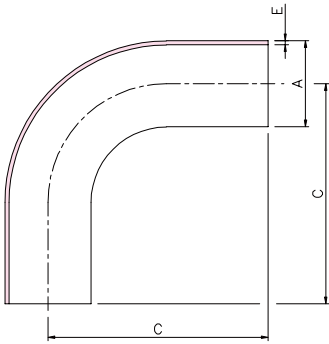
	A	B	C	D	E
1/2S	12.7	-	24	40	1.24
3/4S	19.05	-	30	49	1.65
1S	25.4	14.5	34.5	44.5	1.2
1.5S	38.1	20.7	40.7	55.7	1.2
2S	50.8	24.9	46.9	64.9	1.5
2.5S	63.5	32.7	58.7	72.7	1.5
3S	76.3	34	62	74	2
4S	101.6	55.7	83.7	95.7	2



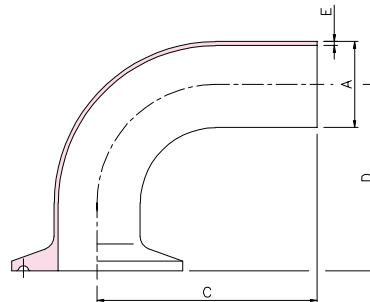
90° ELBOW -W-
SVW113



90° ELBOW -1F-
SVW113-1

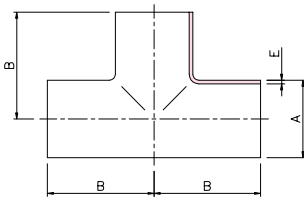


90° LONG ELBOW -W-
SVW123

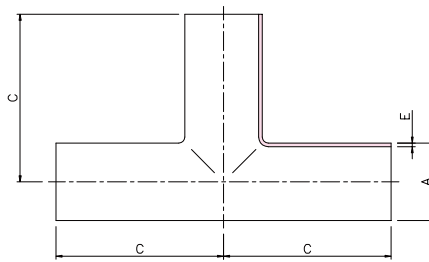


90° LONG ELBOW -1F-
SVW123-1

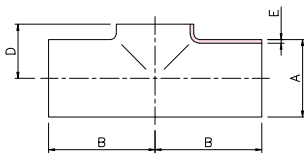
	A	B	C	D	E
1/2S	12.7	25	55	38.5	1.24
3/4S	19.05	28.5	67	43.5	1.65
1S	25.4	35	65	55	1.2
1.5S	38.1	50	85	70	1.2
2S	50.8	60	100	82	1.5
2.5S	63.5	79	119	105	1.5
3S	76.3	82	122	110	2
4S	101.6	134.5	174.5	162.5	2



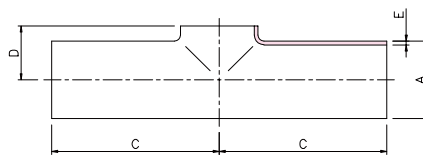
TEE -W-
SVW114



LONG TEE -W-
SVW124



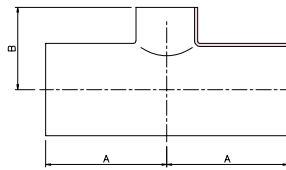
LOW NECK TEE -W-
SVW115



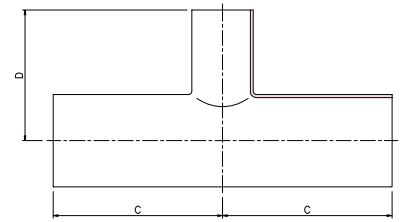
LOW NECK LONG TEE -W-
SVW125

	A	B	C	D	E
1/2S	12.7	35	35	8.3	1.24
3/4S	19.05	40	40	11	1.65
1S	25.4	35	55	14	1.2
1.5S	38.1	50	70	21	1.2
2S	50.8	60	80	29.5	1.5
2.5S	63.5	79	109	34.7	1.5
3S	76.3	82	112	41	2
4S	101.6	134.5	164.5	53.8	2

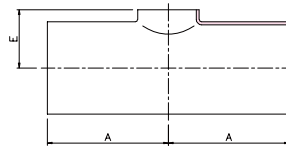
	A	B	C	D	E
1Sx1/2S	35	38	55	58	14.5
1Sx3/4S	35	38	55	58	14.5
1.5Sx1/2S	50	44	70	64	21
1.5Sx3/4S	50	44	70	64	21
1.5Sx1S	50	40	70	60	21
2Sx1/2S	60	50.5	80	70.5	29
2Sx3/4S	60	50.5	80	70.5	29
2Sx1S	60	48	80	68	29
2Sx1.5S	60	60	80	80	29
2.5Sx1/2S	79	57	109	77	36
2.5Sx3/4S	79	57	109	77	36
2.5Sx1S	79	52.5	109	72.5	36
2.5Sx1.5S	79	63.5	109	83.5	36
2.5Sx2S	79	69	109	89	36
3Sx1/2S	82	64	112	84	41.5
3Sx3/4S	82	64	112	84	41.5
3Sx1S	82	62	112	82	41.5
3Sx1.5S	82	69	112	89	41.5
3Sx2S	82	76	112	96	41.5
3Sx2.5S	82	90	112	120	41.5
4Sx1/2S	134.5	76	164.5	96	56
4Sx3/4S	134.5	76	164.5	96	56
4Sx1S	134.5	73.5	164.5	93.5	56
4Sx1.5S	134.5	82.5	164.5	102.5	56
4Sx2S	134.5	97	164.5	117	56
4Sx2.5S	134.5	113	164.5	143	56
4Sx3S	134.5	117	164.5	147	56



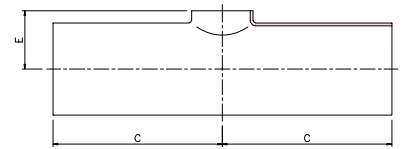
**REDUCING TEE -W-
SVW116**



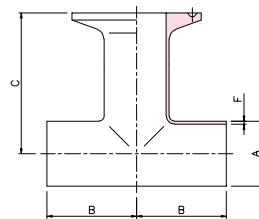
**LONG REDUCING TEE -W-
SVW126**



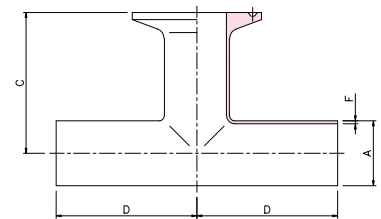
**LOW NECK
REDUCING TEE -W-
SVW117**



**LOW NECK
LONG REDUCING TEE -W-
SVW127**

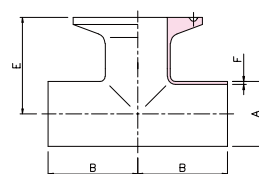


**TEE -WFW-
SVW114-1**

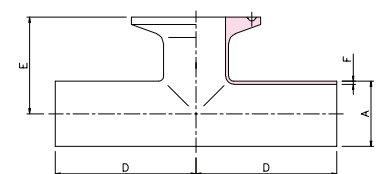


**LONG TEE -WFW-
SVW124-1**

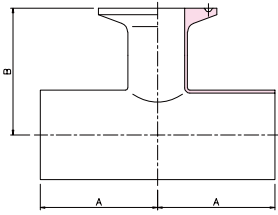
	A	B	C	D	E	F
1/2S	12.7	35	49	35	20	1.24
3/4S	19.05	40	54	40	23	1.65
1S	25.4	35	55	55	33	1.2
1.5S	38.1	50	70	70	41	1.2
2S	50.8	60	82	80	51	1.5
2.5S	63.5	79	105	109	60.7	1.5
3S	76.3	82	110	112	69	2
4S	101.6	134.5	162.5	164.5	81.8	2



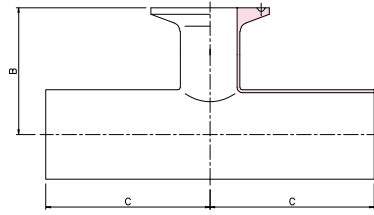
**LOW NECK TEE -WFW-
SVW115-1**



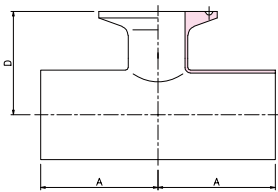
**LOW NECK LONG TEE -WFW-
SVW125-1**



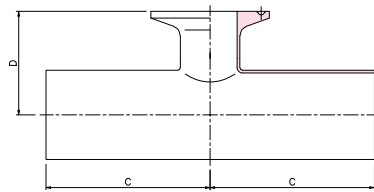
**REDUCING TEE -WFW-
SVW116-1**



**LONG REDUCING TEE -WFW-
SVW126-1**

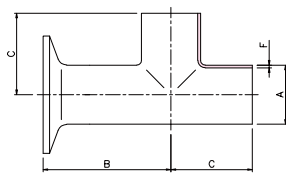


**LOW NECK
REDUCING TEE -WFW-
SVW117-1**

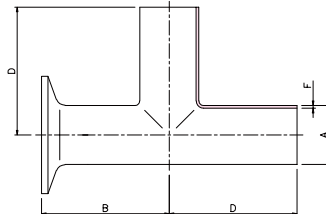


**LOW NECK LONG
REDUCING TEE -WFW-
SVW127-1**

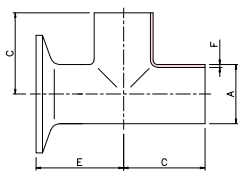
	A	B	C	D
1Sx1/2S	35	52	55	24.5
1Sx3/4S	35	52	55	22
1.5Sx1/2S	50	58	70	31.5
1.5Sx3/4S	50	58	70	30
1.5Sx1S	50	60	70	41
2Sx1/2S	60	64.5	80	38
2Sx3/4S	60	64.5	80	37
2Sx1S	60	68	80	48
2Sx1.5S	60	80	80	48
2.5Sx1/2S	79	71	109	45
2.5Sx3/4S	79	71	109	44
2.5Sx1S	79	72.5	109	56
2.5Sx1.5S	79	83.5	109	56
2.5Sx2S	79	91	109	58
3Sx1/2S	82	78	112	51
3Sx3/4S	82	78	112	51
3Sx1S	82	82	112	62.5
3Sx1.5S	82	89	112	62.5
3Sx2S	82	98	112	63.5
3Sx2.5S	82	116	112	67.5
4Sx1/2S	134.5	90	164.5	64
4Sx3/4S	134.5	90	164.5	64
4Sx1S	134.5	83.5	164.5	76
4Sx1.5S	134.5	102.5	164.5	76
4Sx2S	134.5	119	164.5	78
4Sx2.5S	134.5	139	164.5	82
4Sx3S	134.5	145	164.5	84



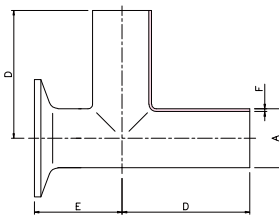
**TEE -FWW-
SVW114-2**



**LONG TEE -FWW-
SVW124-2**



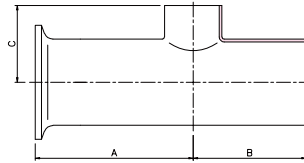
**LOW NECK TEE -FWW-
SVW115-2**



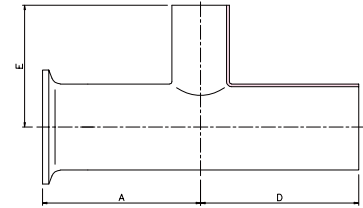
**LOW NECK LONG TEE -FWW-
SVW125-2**

	A	B	C	D	E	F
1/2S	12.7	49	35	35	20.3	1.24
3/4S	19.05	54	40	40	23.5	1.65
1S	25.4	55	35	55	32.7	1.2
1.5S	38.1	70	50	70	39	1.2
2S	50.8	82	60	80	47.4	1.5
2.5S	63.5	105	79	109	57.7	1.5
3S	76.3	110	82	112	66	2
4S	101.6	162.5	134.5	164.5	78.8	2

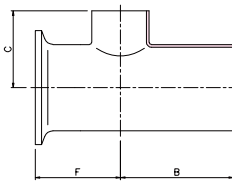
	A	B	C	D	E	F
1Sx1/2S	55	35	38	55	58	26.3
1Sx3/4S	55	35	38	55	58	29.5
1.5Sx1/2S	70	50	44	70	64	26.3
1.5Sx3/4S	70	50	44	70	64	29.5
1.5Sx1S	70	50	40	70	60	32.7
2Sx1/2S	82	60	50.5	80	70.5	28.3
2Sx3/4S	82	60	50.5	80	70.5	31.5
2Sx1S	82	60	48	80	68	34.7
2Sx1.5S	82	60	60	80	80	41
2.5Sx1/2S	105	79	57	109	77	32.3
2.5Sx3/4S	105	79	57	109	77	35.5
2.5Sx1S	105	79	52.5	109	72.5	38.7
2.5Sx1.5S	105	79	63.5	109	83.5	45
2.5Sx2S	105	79	69	109	89	51.4
3Sx1/2S	110	82	64	112	84	34.3
3Sx3/4S	110	82	64	112	84	37.5
3Sx1S	110	82	62	112	82	40.7
3Sx1.5S	110	82	69	112	89	47
3Sx2S	110	82	76	112	96	53.4
3Sx2.5S	110	82	90	112	120	59.7
4Sx1/2S	162.5	134.5	76	164.5	96	34.3
4Sx3/4S	162.5	134.5	76	164.5	96	37.5
4Sx1S	162.5	134.5	73.5	164.5	93.5	40.7
4Sx1.5S	162.5	134.5	82.5	164.5	102.5	47
4Sx2S	162.5	134.5	97	164.5	117	53.4
4Sx2.5S	162.5	134.5	113	164.5	143	59.7
4Sx3S	162.5	134.5	117	164.5	147	66



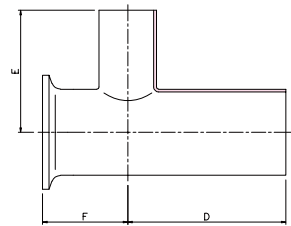
REDUCING TEE -FWW-
SVW116-2



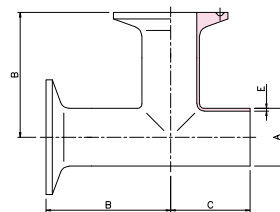
LONG REDUCING TEE -FWW-
SVW126-2



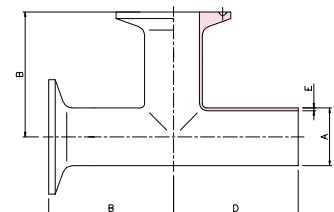
**LOW NECK
REDUCING TEE -FWW-**
SVW117-2



**LOW NECK
LONG REDUCING TEE -FWW-**
SVW127-2

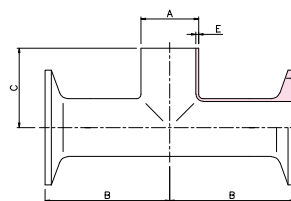


TEE -FFW-
SVW114-3

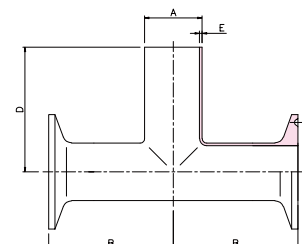


LONG TEE -FFW-
SVW124-3

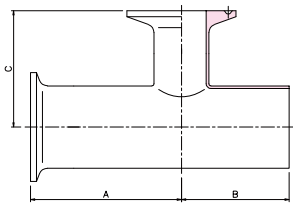
	A	B	C	D	E
1/2S	12.7	49	35	35	1.24
3/4S	19.05	54	40	40	1.65
1S	25.4	55	35	55	1.2
1.5S	38.1	70	50	70	1.2
2S	50.8	82	60	80	1.5
2.5S	63.5	105	79	109	1.5
3S	76.3	110	82	112	2
4S	101.6	162.5	134.5	164.5	2



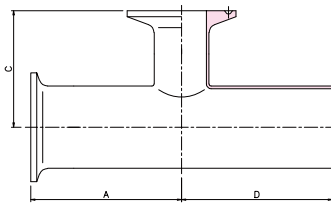
TEE -FWF-
SVW114-4



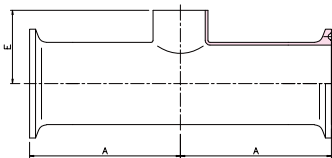
LONG TEE -FWF-
SVW124-4



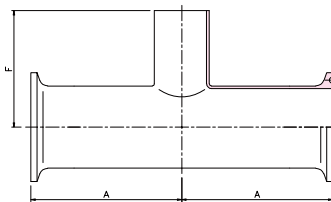
**REDUCING TEE -FFW-
SVW116-3**



**REDUCING TEE -FFW-
SVW126-3**

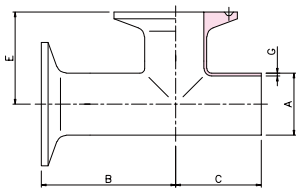


**REDUCING TEE -FWF-
SVW116-4**

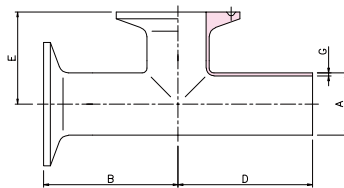


**LONG REDUCING TEE -FWF-
SVW126-4**

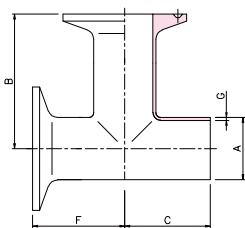
	A	B	C	D	E	F
1Sx1/2S	55	35	52	55	38	58
1Sx3/4S	55	35	52	55	38	58
1.5Sx1/2S	70	50	58	70	44	64
1.5Sx3/4S	70	50	58	70	44	64
1.5Sx1S	70	50	60	70	40	60
2Sx1/2S	82	60	64.5	80	50.5	70.5
2Sx3/4S	82	60	64.5	80	50.5	70.5
2Sx1S	82	60	68	80	48	68
2Sx1.5S	82	60	80	80	60	80
2.5Sx1/2S	105	79	71	109	57	77
2.5Sx3/4S	105	79	71	109	57	77
2.5Sx1S	105	79	72.5	109	52.5	72.5
2.5Sx1.5S	105	79	83.5	109	63.5	83.5
2.5Sx2S	105	79	91	109	69	89
3Sx1/2S	110	82	78	112	64	84
3Sx3/4S	110	82	78	112	64	84
3Sx1S	110	82	82	112	62	82
3Sx1.5S	110	82	89	112	69	89
3Sx2S	110	82	98	112	76	96
3Sx2.5S	110	82	116	112	90	120
4Sx1/2S	162.5	134.5	90	164.5	76	96
4Sx3/4S	162.5	134.5	90	164.5	76	96
4Sx1S	162.5	134.5	83.5	164.5	73.5	93.5
4Sx1.5S	162.5	134.5	102.5	164.5	82.5	102.5
4Sx2S	162.5	134.5	119	164.5	97	117
4Sx2.5S	162.5	134.5	139	164.5	113	143
4Sx3S	162.5	134.5	145	164.5	117	147



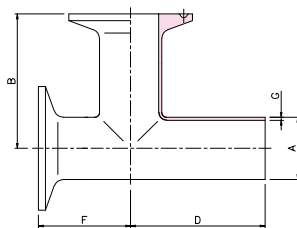
**LOW NECK TEE -FFW-
SVW115-3**



**LOW NECK TEE -FFW-
SVW125-3**



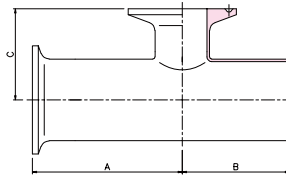
**LOW NECK TEE -FFW-
SVW115-4**



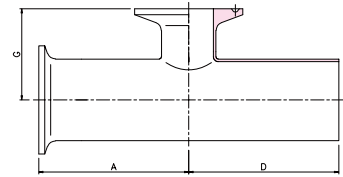
**LOW NECK LONG TEE -FFW-
SVW125-4**

	A	B	C	D	E	F	G
1/2S	12.7	49	35	35	20	20.3	1.24
3/4S	19.05	54	40	40	23	23.5	1.65
1S	25.4	55	35	55	33	32.7	1.2
1.5S	38.1	70	50	70	41	39	1.2
2S	50.8	82	60	80	51	47.4	1.5
2.5S	63.5	105	79	109	60.7	57.7	1.5
3S	76.3	110	82	112	69	66	2
4S	101.6	162.5	134.5	164.5	81.8	78.8	2

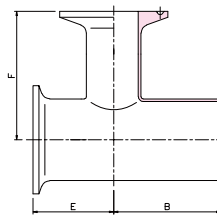
	A	B	C	D	E	F
1Sx1/2S	55	35	24.5	55	26.3	52
1Sx3/4S	55	35	22	55	29.5	52
1.5Sx1/2S	70	50	31.5	70	26.3	58
1.5Sx3/4S	70	50	30	70	29.5	58
1.5Sx1S	70	50	41	70	32.7	60
2Sx1/2S	82	60	38	80	28.3	64.5
2Sx3/4S	82	60	37	80	31.5	64.5
2Sx1S	82	60	48	80	34.7	68
2Sx1.5S	82	60	48	80	41	80
2.5Sx1/2S	105	79	45	109	32.3	71
2.5Sx3/4S	105	79	44	109	35.5	71
2.5Sx1S	105	79	56	109	38.7	72.5
2.5Sx1.5S	105	79	56	109	45	83.5
2.5Sx2S	105	79	58	109	51.4	91
3Sx1/2S	110	82	51	112	34.3	78
3Sx3/4S	110	82	51	112	37.5	78
3Sx1S	110	82	62.5	112	40.7	82
3Sx1.5S	110	82	62.5	112	47	89
3Sx2S	110	82	63.5	112	53.4	98
3Sx2.5S	110	82	67.5	112	59.7	116
4Sx1/2S	162.5	134.5	64	164.5	34.3	90
4Sx3/4S	162.5	134.5	64	164.5	37.5	90
4Sx1S	162.5	134.5	76	164.5	40.7	83.5
4Sx1.5S	162.5	134.5	76	164.5	47	102.5
4Sx2S	162.5	134.5	78	164.5	53.4	119
4Sx2.5S	162.5	134.5	82	164.5	59.7	139
4Sx3S	162.5	134.5	84	164.5	66	145



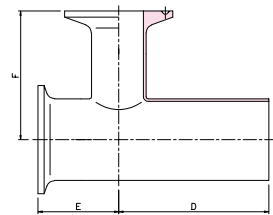
**LOW NECK
REDUCING TEE -FFW-
SVW117-3**



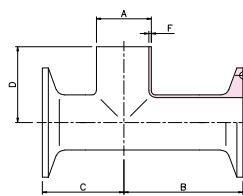
**LOW NECK
LONG REDUCING TEE -FFW-
SVW127-3**



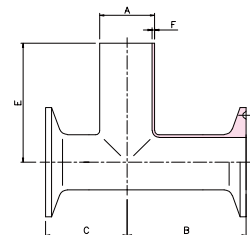
**LOW NECK
REDUCING TEE -FFW-
SVW117-4**



**LOW NECK
LONG REDUCING TEE -FFW-
SVW127-4**

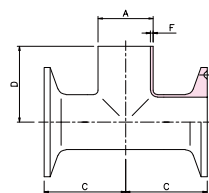


**LOW NECK TEE -FWF-
SVW115-5**

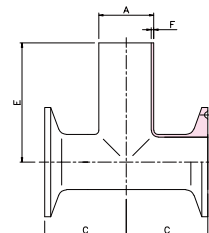


**LOW NECK
LONG TEE -FWF-
SVW125-5**

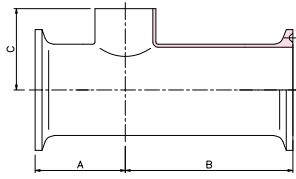
	A	B	C	D	E	F
1/2S	12.7	49	20.3	35	35	1.24
3/4S	19.05	54	23.5	40	40	1.65
1S	25.4	55	32.7	35	55	1.2
1.5S	38.1	70	39	50	70	1.2
2S	50.8	82	47.4	60	80	1.5
2.5S	63.5	105	57.7	79	109	1.5
3S	76.3	110	66	82	112	2
4S	101.6	162.5	78.8	134.5	164.5	2



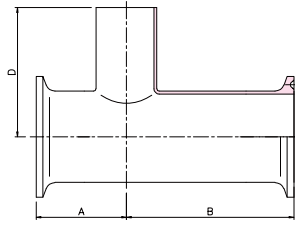
**LOW NECK TEE -FWF-
SVW115-6**



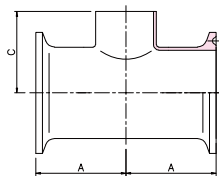
**LOW NECK
LONG TEE -FWF-
SVW125-6**



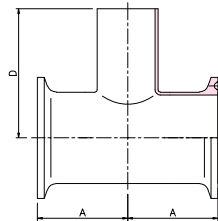
**LOW NECK
REDUCING TEE -FWF-
SVW117-5**



**LOW NECK LONG
REDUCING TEE -FWF-
SVW127-5**



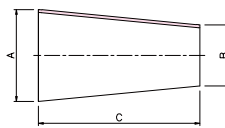
**LOW NECK
REDUCING TEE -FWF-
SVW117-6**



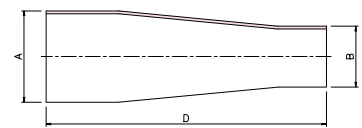
**LOW NECK LONG
REDUCING TEE -FWF-
SVW127-6**

	A	B	C	D
1Sx1/2S	26.3	55	38	58
1Sx3/4S	29.5	55	38	58
1.5Sx1/2S	26.3	70	44	64
1.5Sx3/4S	29.5	70	44	64
1.5Sx1S	32.7	70	40	60
2Sx1/2S	28.3	82	50.5	70.5
2Sx3/4S	31.5	82	50.5	70.5
2Sx1S	34.7	82	48	68
2Sx1.5S	41	82	60	80
2.5Sx1/2S	32.3	105	57	77
2.5Sx3/4S	35.5	105	57	77
2.5Sx1S	38.7	105	52.5	72.5
2.5Sx1.5S	45	105	63.5	83.5
2.5Sx2S	51.4	105	69	89
3Sx1/2S	34.3	110	64	84
3Sx3/4S	37.5	110	64	84
3Sx1S	40.7	110	62	82
3Sx1.5S	47	110	69	89
3Sx2S	53.4	110	76	96
3Sx2.5S	59.7	110	90	120
4Sx1/2S	34.3	162.5	76	96
4Sx3/4S	37.5	162.5	76	96
4Sx1S	40.7	162.5	73.5	93.5
4Sx1.5S	47	162.5	82.5	102.5
4Sx2S	53.4	162.5	97	117
4Sx2.5S	59.7	162.5	113	143
4Sx3S	66	162.5	117	147

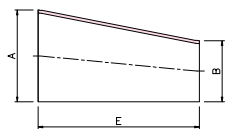
	A	B	C	D	E	F
1Sx1/2S	25.4	12.7	30	90	25	86
1Sx3/4S	25.4	19.05	30	90	22	82
1.5Sx1/2S	38.1	12.7	37	102	51	110
1.5Sx3/4S	38.1	19.05	37	102	52	117
1.5Sx1S	38.1	25.4	67	132	63.7	129
2Sx1/2S	50.8	12.7	54	124	90	160
2Sx3/4S	50.8	19.05	61.5	131.5	90	160
2Sx1S	50.8	25.4	67	137	70	140
2Sx1.5S	50.8	38.1	67	142	62.5	137.5
2.5Sx1S	63.5	25.4	67	137	71.5	141.5
2.5Sx1.5S	63.5	38.1	67	142	70	145
2.5Sx2S	63.5	50.8	67	147	61.3	141
3Sx1S	76.3	25.4	135	205	134	205
3Sx1.5S	76.3	38.1	67	142	71.5	141.5
3Sx2S	76.3	50.8	67	147	70	150
3Sx2.5S	76.3	63.5	67	147	60	140
4Sx1S	101.6	25.4	154	224	171	241
4Sx1.5S	101.6	38.1	172	247	171	246
4Sx2S	101.6	50.8	103	183	108	188
4Sx2.5S	101.6	63.5	103	183	106.5	186.5
4Sx3S	101.6	76.3	103	183	91.4	171



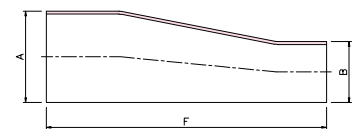
**CONCENTRIC REDUCER -W-
SVW118**



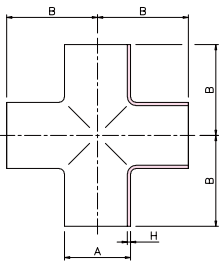
**CONCENTRIC REDUCER -W-
SVW128**



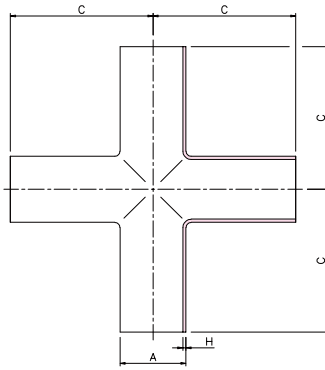
**ECCENTRIC REDUCER -W-
SVW119**



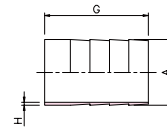
**ECCENTRIC REDUCER -W-
SVW129**



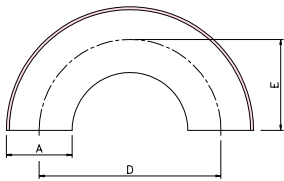
CROSS TEE -W-
SWW131



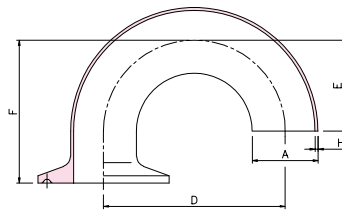
LONG CROSS TEE -W-
SWW141



HOSE COUPLING -W-
SWW132

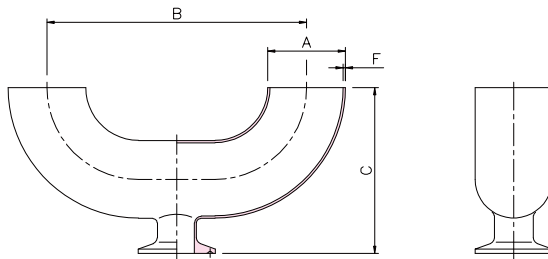


U-BAND -W-
SWW133

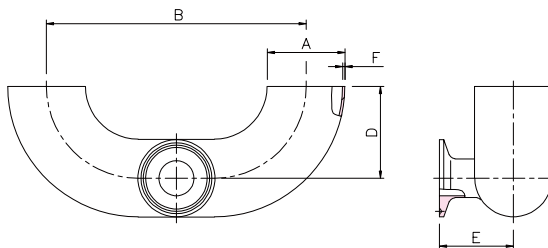


U-BAND -1F-
SWW143

	A	B	C	D	E	F	G	H
1/2S	12.7	35	35	50	25	39	40	1.24
3/4S	19.05	40	40	60	30	44	40	1.65
1S	25.4	35	55	70	35	55	40	1.2
1.5S	38.1	50	70	100	50	70	50	1.2
2S	50.8	60	80	120	60	82	58	1.5
2.5S	63.5	79	109	158	79	105	74	1.5
3S	76.3	82	112	164	82	110	72	2
4S	101.6	134.5	164.5	269	134.5	162.5	92	2



USE POINT -A-
SWW135

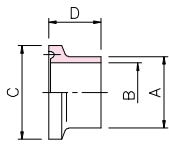


USE POINT -B-
SWW135

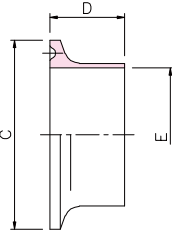
	A	B	C	D	E	F
1Sx1/2S	25.4	117	58.5	35	25	1.2
1Sx3/4S	25.4	117	56	35	22	1.2
1.5Sx1/2S	38.1	152	80	50	31.5	1.2
1.5Sx3/4S	38.1	152	78.5	50	30	1.2
1.5Sx1S	38.1	152	89	50	41	1.2
2Sx1/2S	50.8	178	96.9	60	38.5	1.5
2Sx3/4S	50.8	178	96	60	37.5	1.5
2Sx1S	50.8	178	102.9	60	48.5	1.5
2Sx1.5S	50.8	178	102.9	60	48.5	1.5
2.5Sx1/2S	63.5	228	122.2	79	45	1.5
2.5Sx3/4S	63.5	228	122.2	79	44	1.5
2.5Sx1S	63.5	228	128.2	79	56	1.5
2.5Sx1.5S	63.5	228	128.2	79	56	1.5
2.5Sx2S	63.5	228	128.2	79	58	1.5
3Sx3/4S	76.3	248	131.6	82	51	2
3Sx1S	76.3	248	137.6	82	62.5	2
3Sx1.5S	76.3	248	137.6	82	62.5	2
3Sx2S	76.3	248	137.6	82	63.5	2
3Sx2.5S	76.3	248	137.6	82	67.5	2
4Sx1S	101.6	356	198.3	130	76	2
4Sx1.5S	101.6	356	198.3	130	76	2
4Sx2S	101.6	356	198.3	130	78	2
4Sx2.5S	101.6	356	198.3	130	82	2
4Sx3S	101.6	356	198.3	130	84	2



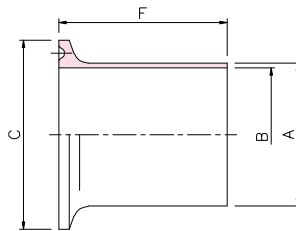
CLAMP UNION FITTINGS



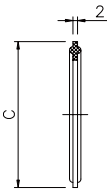
FERRULE -W-
SVC213



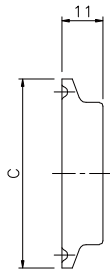
FERRULE -EX-
SVC238



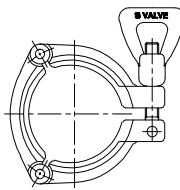
LONG FERRULE -W-
SVC228



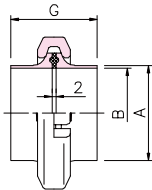
FERRULE GASKET
SVC230



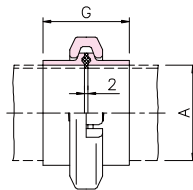
FERRULE BLANK
SVC215



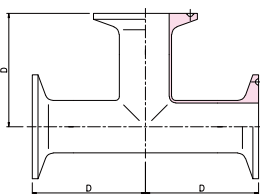
CLAMP BAND
SVC211



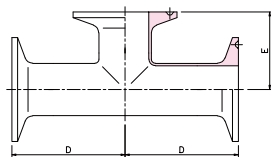
CLAMP UNION -W-
SVC214



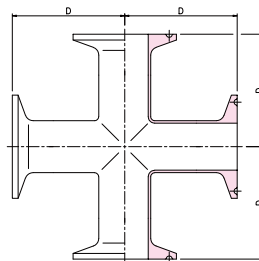
CLAMP UNION -EX-
SVC237



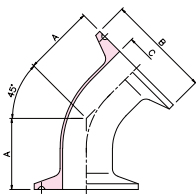
TEE -3F-
SVC218



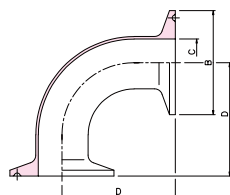
LOW NECK TEE -3F-
SVC240



CROSS TEE -4F-
SVC241



45° ELBOW -2F-
SVC239

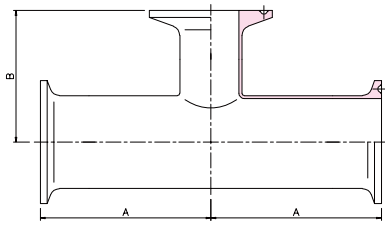


90° ELBOW -2F-
SVC216

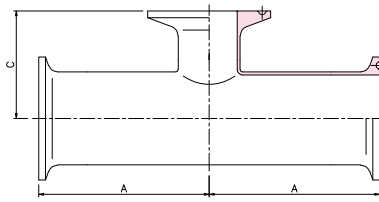
	A	B	C	D	E	F	G
1/2S	12.7	10.22	25	14	-	35	-
3/4S	19.05	15.7	25	14	-	35	-
1S	25.4	23	50.5	20	25.5	45	42
1.5S	38.1	35.7	50.5	20	38.3	45	42
2S	50.8	47.8	64	22	61	45	46
2.5S	63.5	60.5	77.5	26	63.8	55	54
3S	76.3	72.3	91	28	76.6	55	58
4S	101.6	97.6	119	28	102	60	58

	A	B	C	D
Ø34x8A	13.8	10.5	34	20
Ø34x10A	17.3	14	34	20
Ø34x15A	21.7	17.5	34	20
1Sx15A	21.7	17.5	50.5	20
1Sx20A	27.2	23	50.5	20
1.5Sx25A	34	28.4	50.5	20
1.5Sx32A	42.7	37.1	50.5	20
2Sx40A	48.6	43	64	22
2.5Sx50A	60.5	54.9	77.5	26
3Sx65A	76.3	70.3	91	28
3.5Sx80A	89.1	83.1	105	28
4.5Sx100A	114.3	108.3	130	28
5Sx125A	139.8	133.8	163.5	30
6Sx150A	165.2	159.2	185	30
8Sx200A	216.3	210.3	240	30
10Sx250A	267.4	261.4	296	40
12Sx300A	318.5	312.5	350	40

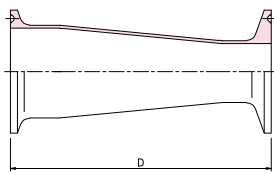
	A	B	C	D	E
1/2S	24	25	10.22	49	22
3/4S	30	25	15.75	54	25
1S	34.5	50.5	23	55	34
1.5S	40.7	50.5	35.7	70	41
2S	46.9	64	47.8	82	51.5
2.5S	58.7	77.5	60.5	105	60.7
3S	62	91	72.3	110	69
4S	83.7	119	97.6	162.5	81.8



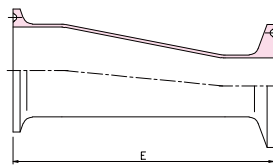
REDUCING TEE -3F-
SVC242



LOW NECK REDUCING TEE -3F-
SVC243

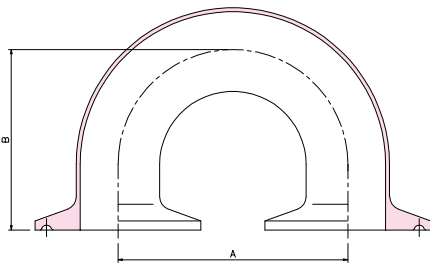


CONCENTRIC REDUCER -F-
SVC220

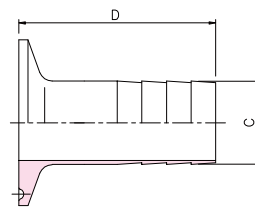


ECCENTRIC REDUCER -F-
SVC222

	A	B	C	D	E
1Sx1/2S	55	52	24.5	64	58.5
1Sx3/4S	55	52	22	64	55
1.5Sx1/2S	70	58	31.5	71	84
1.5Sx3/4S	70	58	30	71	84
1.5Sx1S	70	60	41	106	103
2Sx1/2S	82	64.5	38	89	126
2Sx3/4S	82	64.5	37	97	126
2Sx1S	82	68	48	108	109
2Sx1.5S	82	80	48	108	102
2.5Sx1/2S	105	71	45	-	-
2.5Sx3/4S	105	71	44	-	-
2.5Sx1S	105	72.5	56	112	117
2.5Sx1.5S	105	83.5	56	112	115
2.5Sx2S	105	91	58	114	108.5
3Sx1/2S	110	78	51	-	-
3Sx3/4S	110	78	51	-	-
3Sx1S	110	82	62.5	182	181
3Sx1.5S	110	89	62.5	114	118.5
3Sx2S	110	98	63.5	116	119
3Sx2.5S	110	116	67.5	120	113
4Sx1/2S	162.5	90	64	-	-
4Sx3/4S	162.5	90	64	-	-
4Sx1S	162.5	83.5	76	202	218
4Sx1.5S	162.5	102.5	76	219	218
4Sx2S	162.5	119	78	152	157
4Sx2.5S	162.5	139	82	156	159.5
4Sx3S	162.5	145	84	158	146.5

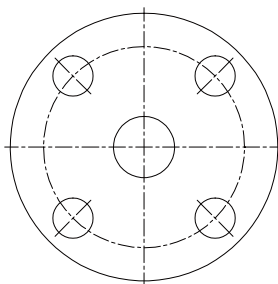


U-BAND -2F-
SVC226

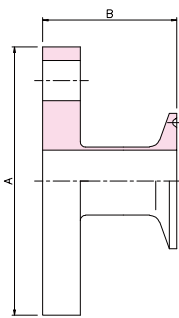


HOSE COUPLING -F-
SVC224

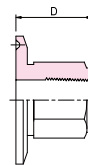
	A	B	C	D
1/2S	50	38	12.7	35
3/4S	60	43	19.05	35
1S	70	55	25.4	60
1.5S	100	70	38.1	70
2S	120	82	50.8	80
2.5S	158	105	63.5	100
3S	164	110	76.3	100
4S	269	162.5	101.6	120



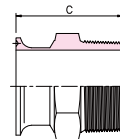
FLANGE ADAPTER -F-
SVC236



SOCKET ADAPTER -F-
SVC237



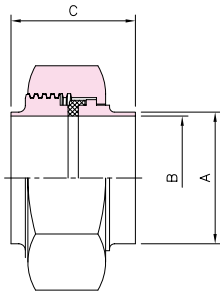
NIPPLE ADAPTER -F-
SVC235



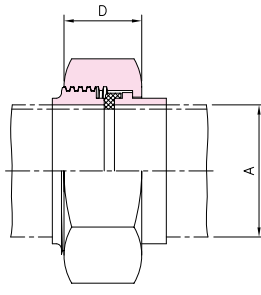
	A	B	C	D
10Ax1S	-	50	34.8	30
15Ax1S	95	50	43	30
20Ax1S	100	50	43	30
25Ax1.5S	125	50	43	30
32Ax1.5S	135	50	45	30
40Ax2S	140	50	48	40
50Ax2.5S	155	50	50	40
65Ax3S	175	50	52	40
80Ax3.5S	185	50	-	-
100Ax4S	210	50	-	-



HEX UNION FITTINGS

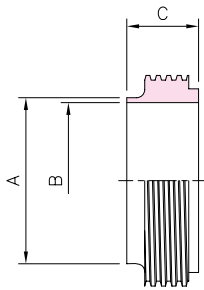


HEX UNION -W-
SVH314

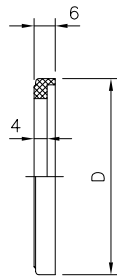


HEX UNION -EX-
SVH331

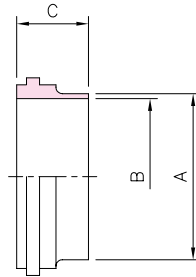
	A	B	C	D
1S	25.4	23	44	30
1.5S	38.1	35.7	44	30
2S	50.8	47.8	48	30
2.5S	63.5	60.5	56	30
3S	76.3	72.3	60	30
4S	101.6	97.6	60	35



MALE -W-
SVH312

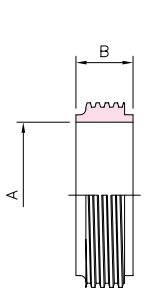


HEX GASKET
SVH329

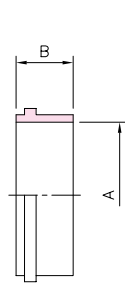


LINER -W-
SVH313

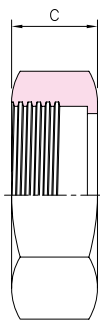
	A	B	C	D
1S	25.4	23	20	33
1.5S	38.1	35.7	20	46.5
2S	50.8	47.8	22	60
2.5S	63.5	60.5	26	74
3S	76.3	72.3	28	87
4S	101.6	97.6	28	114



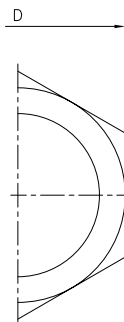
MALE -EX-
SVH332



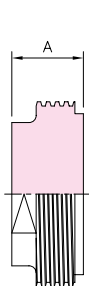
LINER -EX-
SVH333



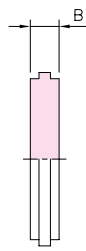
HEX NUT
SVH311



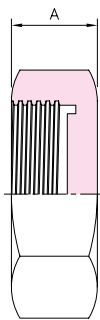
	A	B	C	D
1S	25.5	20	30	45
1.5S	38.3	20	30	56
2S	51	22	30	75
2.5S	63.8	25	30	90
3S	76.6	28	30	105
4S	102	28	35	130



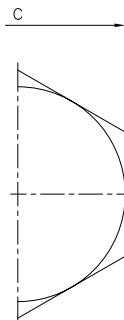
MALE BLANK
SVH334



LINER BLANK
SVH335

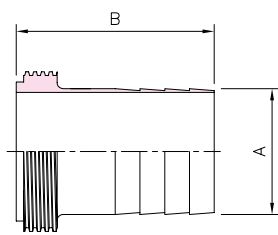


HEX CAP
SVH336

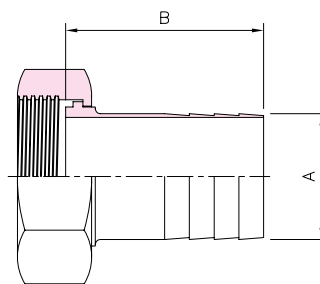


	A	B	C
1S	30	11	45
1.5S	30	11	56
2S	30	11	75
2.5S	30	11	90
3S	30	11	105
4S	35	12	130

	A	B
1S	25.4	60
1.5S	38.1	70
2S	50.8	80
2.5S	63.5	100
3S	76.3	100
4S	101.6	120



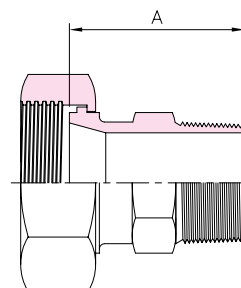
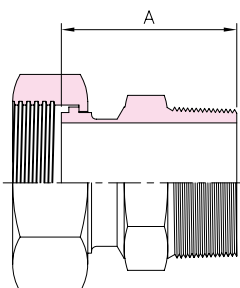
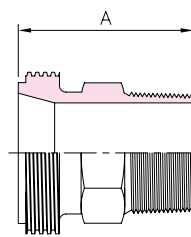
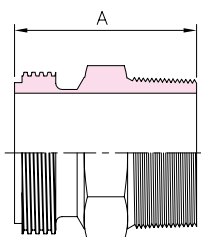
HOSE COUPLING -M-
SVH337



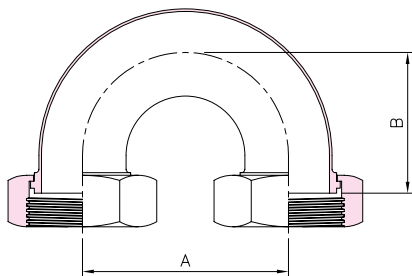
HOSE COUPLING -N-
SVH323

NIPPLE ADAPTER
SVH338

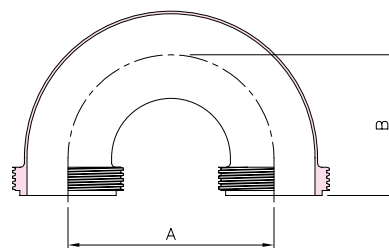
	A
1SxPT 3/8"	60
1SxPT 1"	60
1.5SxPT 1"	65
1.5SxPT 1 1/4"	65
1.5SxPT 1 1/2"	65
2SxPT 1 1/4"	70
2SxPT 1 1/2"	70
2SxPT 2"	70
2.5SxPT 2"	70
3SxPT 2 1/2"	100



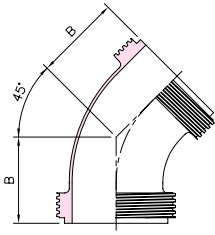
	A	B
1S	70	55
1.5S	100	70
2S	120	82
2.5S	158	105
3S	164	110
4S	269	162.5



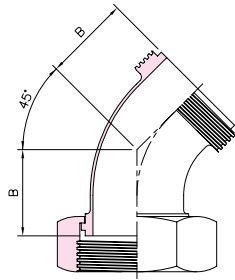
U-BEND -2N-
SVH325



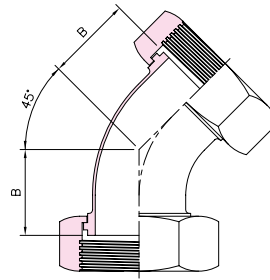
U-BEND -2M-
SVH344



45° ELBOW -2M-
SVH339

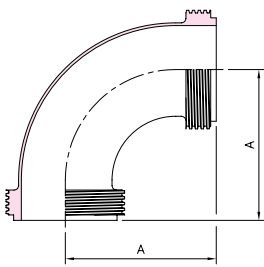


45° ELBOW -1NX1M-
SVH340

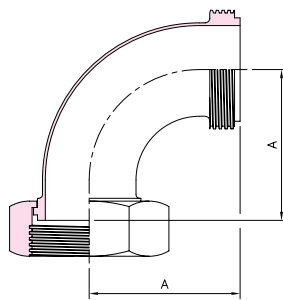


45° ELBOW -2N-
SVH341

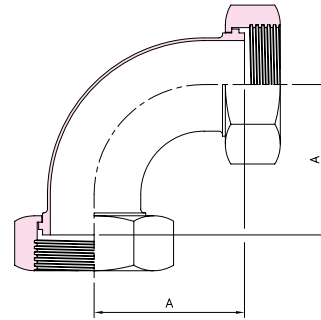
	A	B
1S	55	34.5
1.5S	70	40.7
2S	82	46.9
2.5S	105	58.7
3S	110	62
4S	162.5	83.7



90° ELBOW -2M-
SVH342



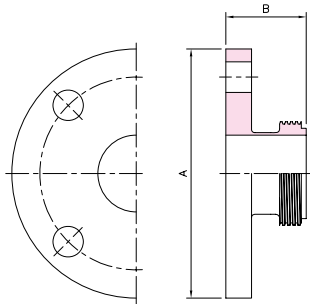
90° ELBOW -1MX1N-
SVH315



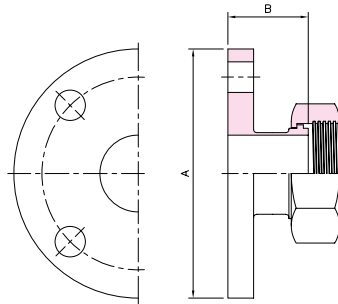
90° ELBOW -2N-
SVH343

72

HEX UNION FITTINGS

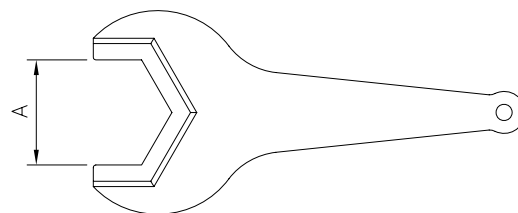


FLANGE ADAPTER -1M-
SVH358



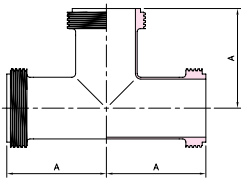
FLANGE ADAPTER -1N-
SVH359

	A	B
1Sx20A	100	50
1.5Sx32A	135	50
2Sx40A	140	50
2.5Sx50A	155	50
3Sx65A	175	50
4Sx100A	210	50

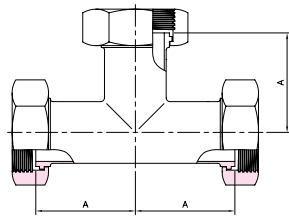


HEX SPANNER
SVH327

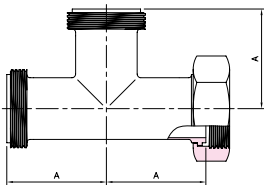
	A
1S	46
1.5S	57
2S	76
2.5S	91
3S	107
4S	132



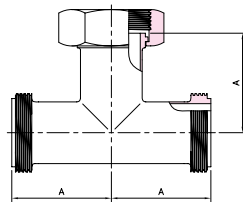
TEE -3M-
SVH345



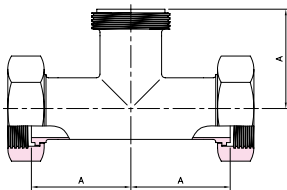
TEE -3N-
SVH346



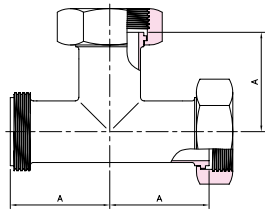
TEE -2MX1N-
SVH317



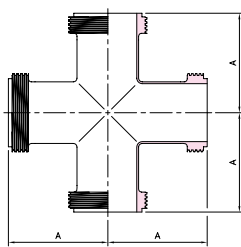
TEE -2MX1N-
SVH347



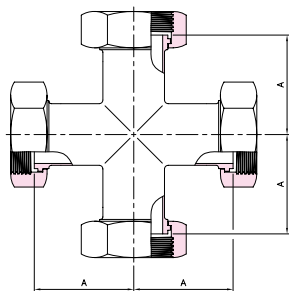
TEE -1MX2N-
SVH348



TEE -1MX2N-
SVH349



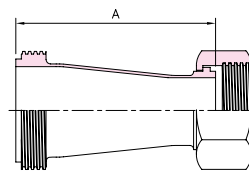
CROSS TEE -4M-
SVH350



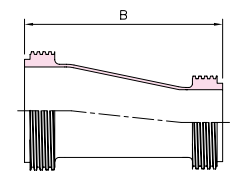
CROSS TEE -4N-
SVH351

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

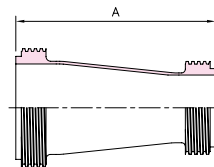
	A	B
1.5Sx1S	107	103.7
2Sx1S	109	112
2Sx1.5S	109	104.5
2.5Sx1S	113	117.5
2.5Sx1.5S	113	116
2.5Sx2S	115	109.3
3Sx1.5S	115	119.5
3Sx2S	117	120
3Sx2.5S	121	114
4Sx2S	153	158
4Sx2.5S	157	160.5
4Sx3S	159	147.4



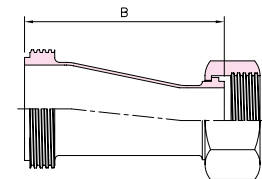
CONCENTRIC REDUCER -1MX1N-
SVH352



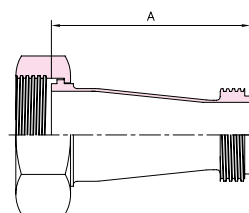
ECCENTRIC REDUCER -2M-
SVH355



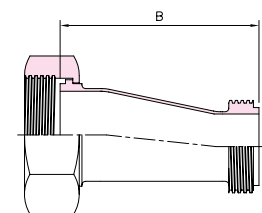
CONCENTRIC REDUCER -2M-
SVH319



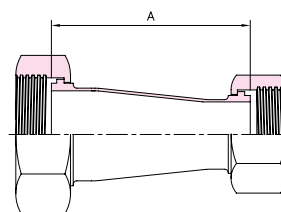
ECCENTRIC REDUCER -1MX1N-
SVH321



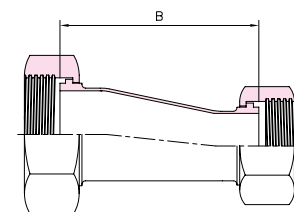
CONCENTRIC REDUCER -1NX1M-
SVH353



ECCENTRIC REDUCER -1NX1M-
SVH356



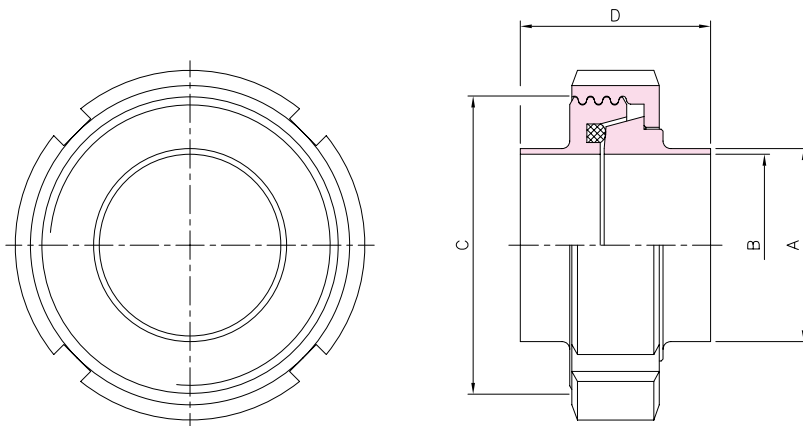
CONCENTRIC REDUCER -2N-
SVH354



ECCENTRIC REDUCER -2N-
SVH357

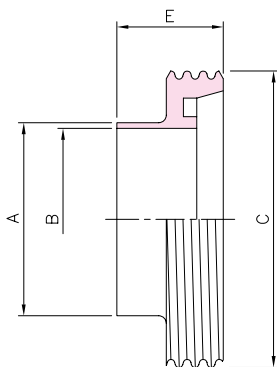


DIN UNION FITTINGS

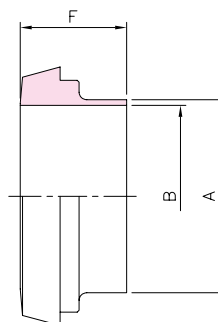


DIN UNION
SVD411

DIN	A	B	C	D	E
10	13	10	RD 28-8	34	21
15	19	16	RD 34-8	34	21
20	23	20	RD 44-6	36	24
25	29	26	RD 52-6	45	29
32	35	32	RD 58-6	51	32
40	41	38	RD 65-6	53	33
50	53	50	RD 78-6	57	35
65	70	66	RD 95-6	65	40
80	85	81	RD 110-4	75	45
100	104	100	RD 130-4	89	54
125	129	125	RD 160-4	70	46
150	154	150	RD 190-4	76	50

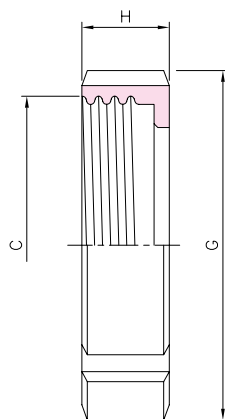


DIN MALE -W-
SVD412

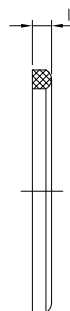


DIN LINER -W-
SVD413

DIN	F	G	H	I
10	17	38	18	4.5
15	17	44	18	4.5
20	18	54	20	4.5
25	22	63	21	5
32	25	70	21	5
40	26	78	21	5
50	28	92	22	5
65	32	112	25	5
80	37	127	29	5
100	44	148	31	6
125	34	178	35	7
150	37	210	40	7



DIN NUT
SVD414



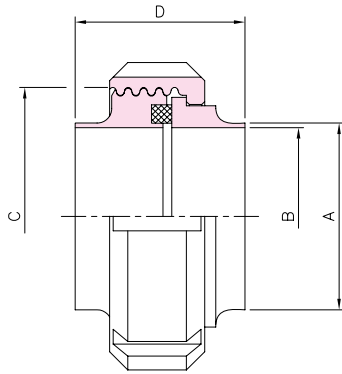
DIN GASKET
SVD430

	A	B	C	D	E
1S	25.4	23	RD 52-6	43	24.5
1.5S	38.1	35.7	RD 65-6	51.6	29
2S	50.8	47.8	RD 78-6	50.6	29
2.5S	63.5	60.5	RD 95-6	64.9	40
3S	76.3	72.3	RD 110-4	70.3	42
4S	101.6	97.6	RD 130-4	89.6	54

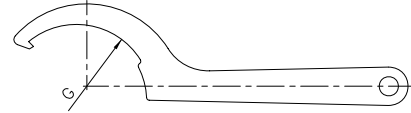
	F	G	H	I
1S	24	63	23	5
1.5S	28	78	23	5
2S	28	92	23	5
2.5S	32	112	26	5
3S	35	127	28	5
4S	44	148	31	6



SMS UNION FITTINGS



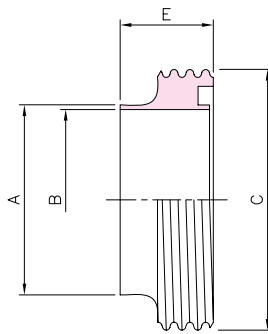
SMS UNION
SVS511



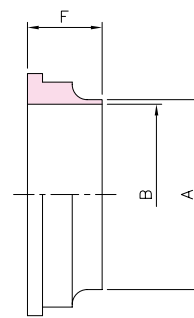
ROUND SPANNER
SVD431

	A	B	C	D
1S	25.4	23	RD 40-6	33.5
1.5S	38.1	35.7	RD 60-6	41.5
2S	50.8	47.8	RD 70-6	41.5
2.5S	63.5	60.5	RD 85-6	50.5
3S	76.3	72.3	RD 98-6	55.5
4S	101.6	97.6	RD 132-6	71.5

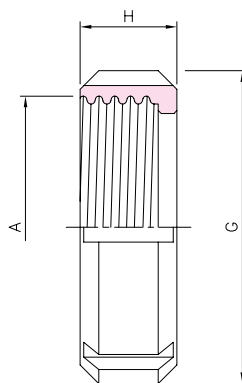
	E	F	G	H
1S	20	20	51	20
1.5S	20	20	74	25
2S	22	22	84	26
2.5S	26	26	100	30
3S	28	28	114	32
4S	28	28	154	40



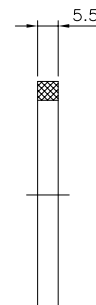
SMS MALE -W-
SVS512



SMS LINER -W-
SVS513



SMS NUT
SVS514



SMS GASKET
SVS530

S-VALVE

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