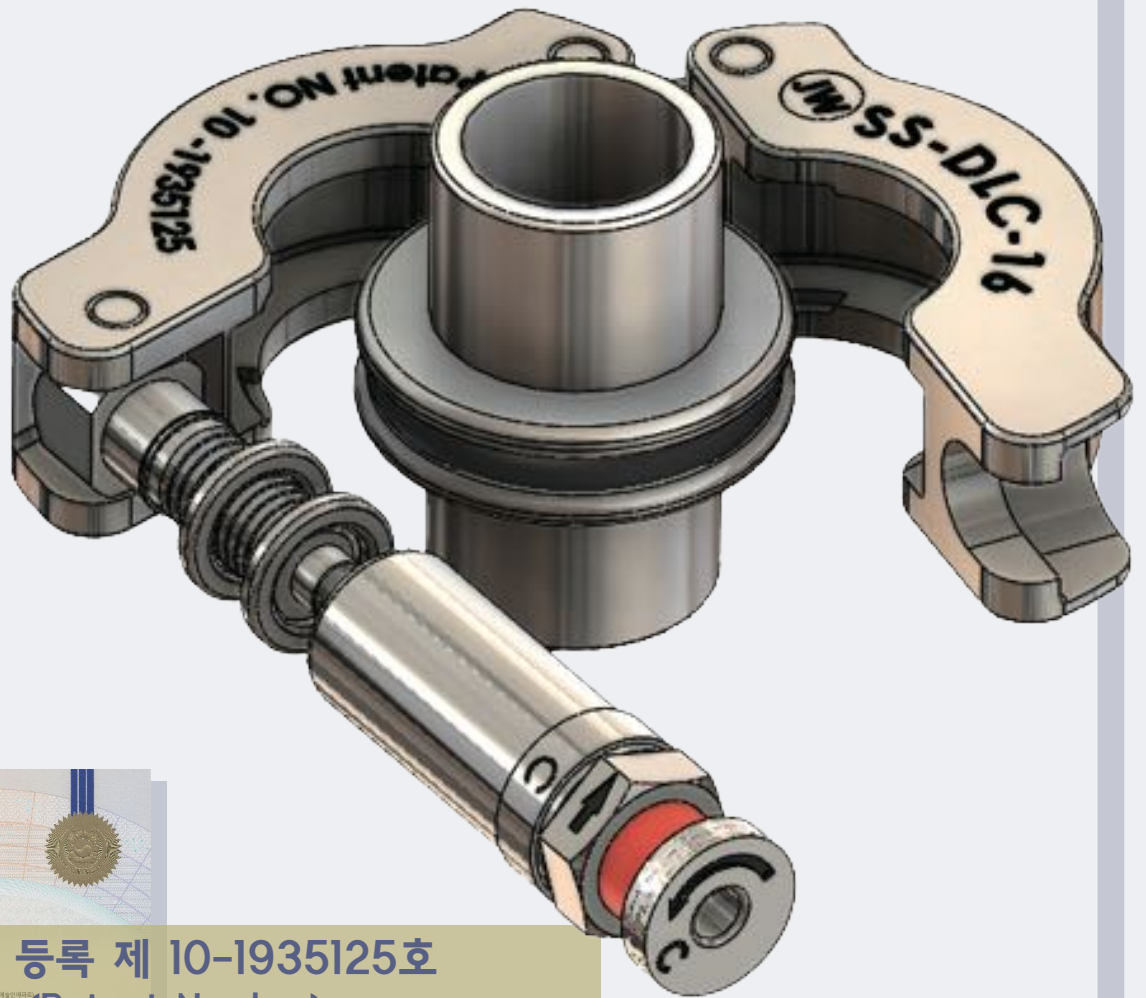




# 이중 잠금 클램프

Double Lock Clamp for Vacuum & Bio



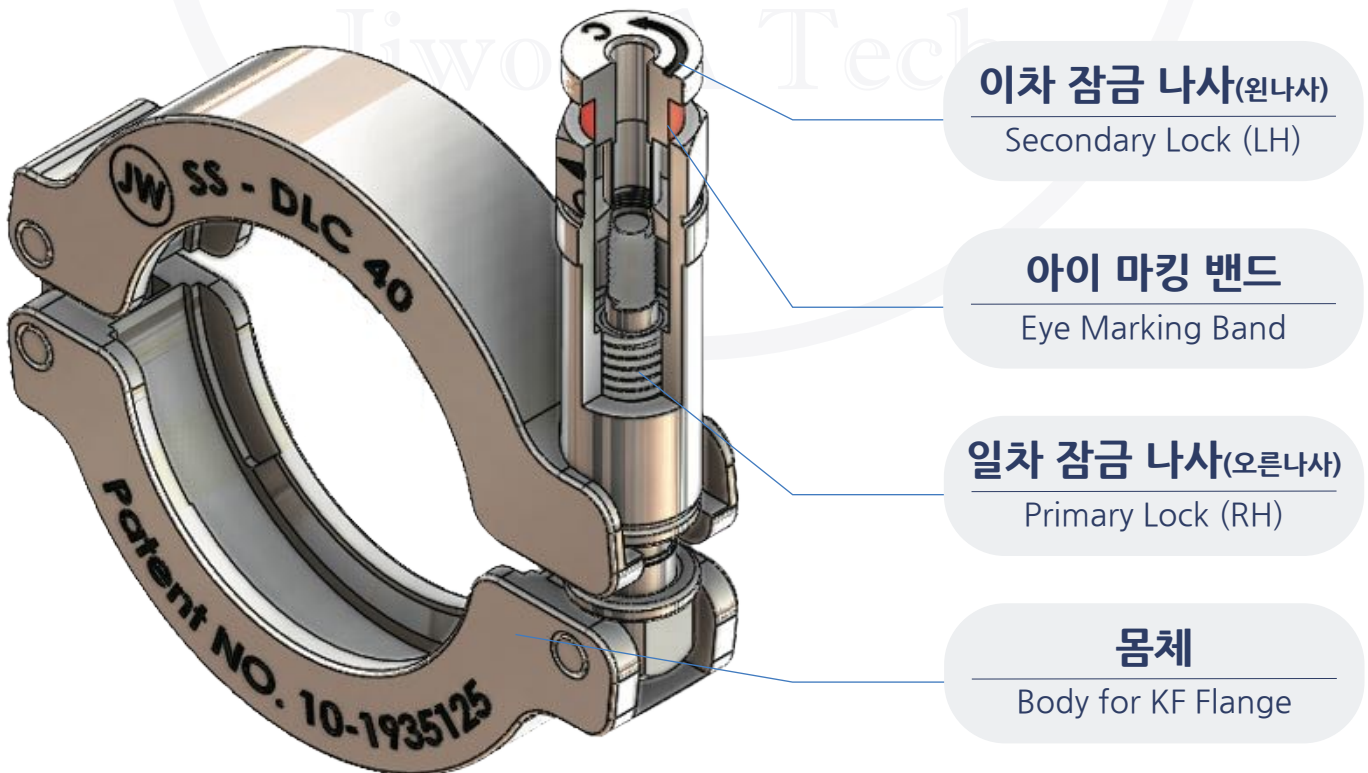
특허 등록 제 10-1935125호  
(Patent Number)

KF(NW), MF(DC) FLANGES & ASME BPE STANDARDS

## Assembly Instruction



## Locking Structure



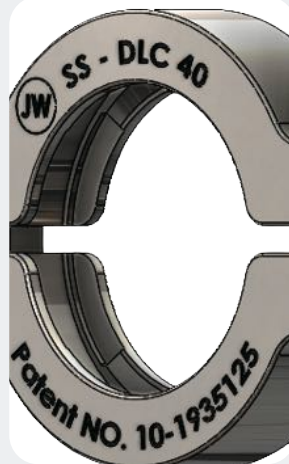
## Advantages



### 이중 잠금 장치 Double Lock System

A double locking device consisting of primary and secondary screws for complete sealing.

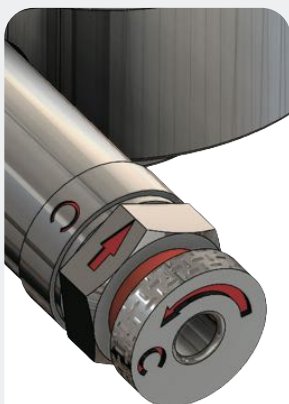
1차 나사와 2차 나사로 구성된 이중 잠금 장치가 장착되어 완전 밀폐가 가능



### 스테인리스 스틸 Stainless Steel

Stainless steel is used to prevent corrosion and external damage

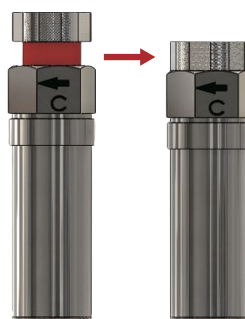
스테인리스 스틸 사용으로 부식 및 외부 충격 등으로 인한 손상 방지



### 잠금 방향 표시 Lock Direction Indication

Easily installable with the lock direction indication on the primary & secondary lock nuts.

1차 및 2차 잠금 나사에 잠금 방향 표시를 하여 쉽게 설치가 가능



### 잠금 확인 가능 Eye Marking Function

Easily check the lock status with the red mark on the secondary lock nut.

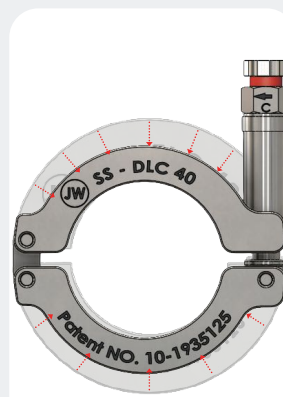
2차 잠금 너트에 빨강 표시를 하여 잠금 상태를 쉽게 확인 가능



### 미끄럼 방지 Knurled Handle

A knurled handle is applied to the secondary nut for easy hand assembly.

이차 나사에 Knurled Handle이 적용되어 손으로 쉽게 조립 가능



### 줄어든 부피/무게 Reduced Volume & Weight

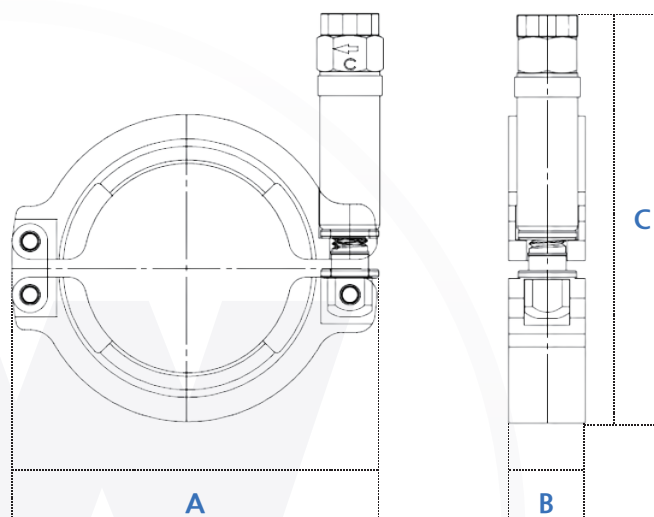
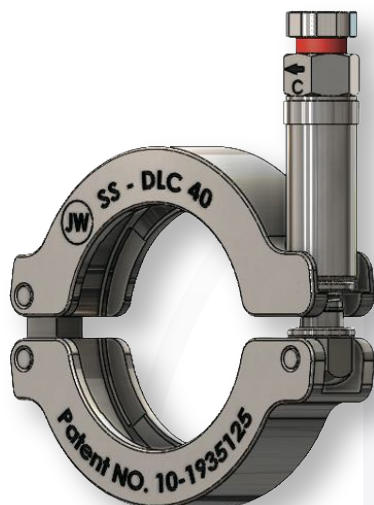
New processing reduces volume & weight by 30~40% compared to the previous design.

새로운 가공 방식으로 기존 대비 약 30~40% 가량 부피 및 무게가 감소

# Double Lock Clamps 이중 잠금 클램프

## General Clamp for KF(NW) Flanges

- Material : Stainless Steel
- Flange type : KF Flange (NW type)
- Flange size : NW 16 ~ 50
- Locking type : Double Locking



Material	Size	Part Number	Primary Lock		Secondary Lock		Length (mm)			Weight (g)
			Thread	Torque (Kgf.cm)	Thread	Torque (Kgf.cm)	A	B	C	
Stainless Steel	NW16	SS-DLC-16	M8/ 16-4/5	70±10	M5/5	20±5	57.56	17.00	69.50	174.0
	NW25	SS-DLC-25					67.87	17.00	74.50	204.0
	NW40	SS-DLC-40					83.05	17.00	91.50	254.0
	NW50	SS-DLC-50					103.25	17.00	101.50	325.0

\*\* Outering 미체결 조건 | Above information is the standard condition for not assembling a 'Outer-Ring'.

## Chain Clamp for KF(NW) Flanges

- Material : Stainless Steel / Aluminium (Chain)
- Flange type : KF Flange (NW type)
- Flange size : NW 63 ~ 150
- Locking type : Double Locking

	Size	Part Number
	NW63	SS-FLC-63-C
	NW80	SS-FLC-80-C
	NW100	SS-FLC-100-C
	NW125	SS-FLC-125-C
NW160	SS-FLC-160-C	

\*\* Outering 체결 조건 | Please use 'Outer-Ring' to meet the conditions below  
 Primary lock : Thread M10/21-1/2, 110±10 Kgf.cm  
 Secondary lock : Thread M6/10, 20±5 Kgf.cm

## DC Clamp for MF(DC) Flanges

- Material : Stainless Steel
- Flange type : MF Flange (Double Claw, DC type)
- Flange size : MF 63 ~ 600
- Locking type : Double Locking

	Part Number
	SS-DC-M10

\*\* Outering 체결 조건 | Please use 'Outer-Ring' to meet the conditions below  
 Primary lock : Thread M10/15-1/2, 110±10 Kgf.cm  
 Secondary lock : Thread M6/3-1/2, 20±5 Kgf.cm

## Bio Double Lock Clamp for ASME BPE Biopharm Fittings

- ◎ Material : 304 Stainless Steel
- ◎ Flange type : To suit ASME-BPE standard clamp fittings
- ◎ Flange size : 1.0S, 1.5S, 2.0S, 2.5S
- ◎ Locking type : Double Locking

### Specification

Material	Size	Part Number	Primary Lock		Secondary Lock		Length (mm)			Weight (g)
			Thread	Torque (Kgf.cm)	Thread	Torque (Kgf.cm)	A	B	C	
304 Stainless Steel	1.0~1.5S	SS-BPE-1015	M8/ 16-4/5	60±10	M5/5	20±5	52.50	80.10	17.00	238.0
	2.0S	SS-BPE-20					65.50	89.00	17.00	256.0
	2.5S	SS-BPE-25					79.00	105.20	17.00	283.0

\*\*The torque value may vary depending on the O-ring material.

### Certificates

**특허증**  
Certificate of Patent  
# 10-1935125

**디자인등록증**  
Certificate of Design Registration  
# 30-0888206

**진동 시험 성적서**  
Vibration Test Report  
2018.05.04

**2019 대한민국 우수특허 대상**  
Best Patent Awards 2019  
2019.07.11

## Single Lock Clamps 단일 잠금 클램프


### Vacuum KF(NW) Flange Clamp for General Installation | 설치용

- ⊙ Material : Stainless Steel
- ⊙ Flange type : KF Flange (NW type)
- ⊙ Flange size : NW16 ~ 50
- ⊙ Locking type : Single Locking

	Size	Part Number
	NW16	SS-NW16G
	NW25	SS-NW25G
	NW40	SS-NW40G
	NW50	SS-NW50G


### Vacuum KF(NW) Flange Clamp for Demolition Area | 철거용

- ⊙ Material : Stainless Steel
- ⊙ Flange type : KF Flange (NW type)
- ⊙ Flange size : NW16 ~ 50
- ⊙ Locking type : Single Locking

	Size	Part Number
	NW16	SS-NW16R
	NW25	SS-NW25R
	NW40	SS-NW40R
	NW50	SS-NW50R

### DC Clamp for MF(DC) Flanges

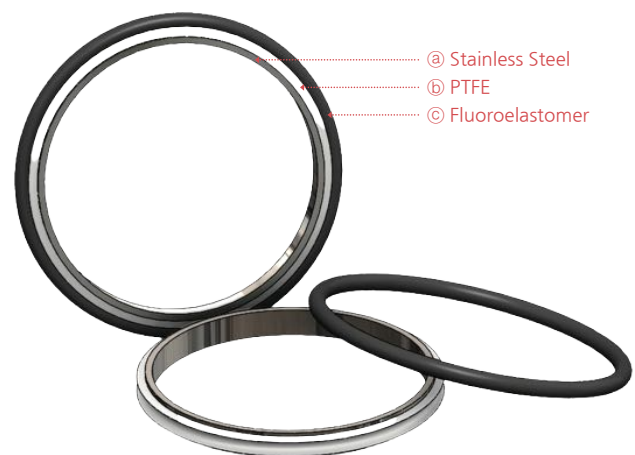
- ⊙ Material : Stainless Steel / Aluminium
- ⊙ Flange type : MF Flange (Double Claw, DC type)
- ⊙ Flange size : MF 63 ~ 600 / Thread size : M10
- ⊙ Locking type : Single Locking

	Mat'l	Part Number
	Aluminium	AL-DC-01
	Stainless Steel	SS-DC-01

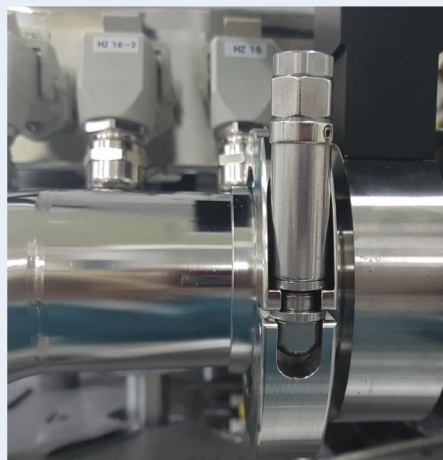
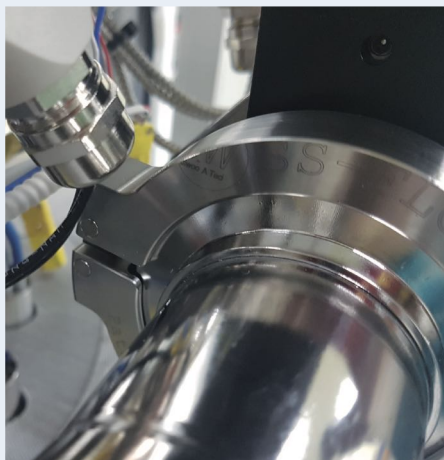
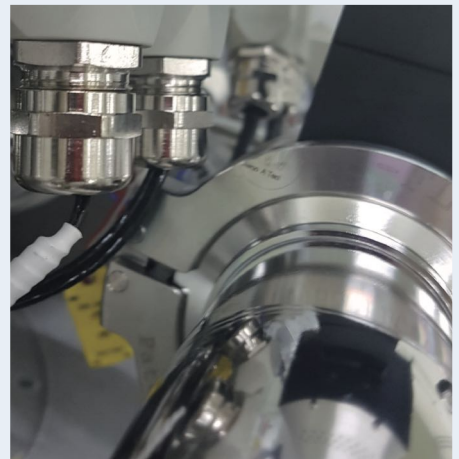
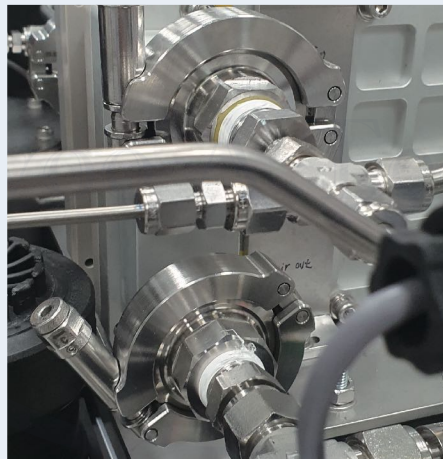
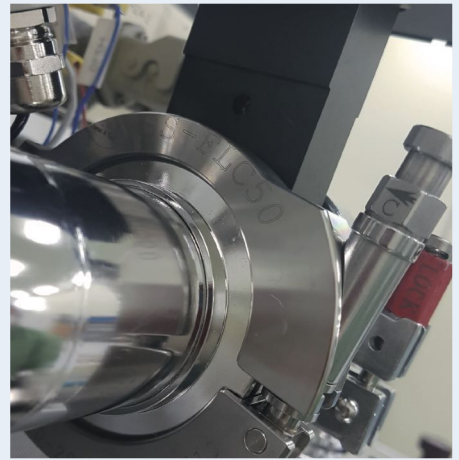
## Dual Sealing PTFE Centering 이중 밀폐 PTFE 센터링

- ⊙ Compatible with various standard KF(NW) Flanges
- ⊙ Material : ①Stainless Steel ②PTFE ③Fluoroelastomer
- ⊙ Working Temperature : -20 ~ 300℃

Size	Part Number	Size	Part Number
NW16	JW-CTR-16	NW80	JW-CTR-80
NW25	JW-CTR-25	NW100	JW-CTR-100
NW40	JW-CTR-40	NW125	JW-CTR-125
NW50	JW-CTR-50	NW160	JW-CTR-160
NW63	JW-CTR-63	NW200	JW-CTR-200



# EXAMPLES



Jiwoo A-Tech. (주)지우에이텍

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경기도 안양시 동안구 별말로 66, A동 1501호  
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*Double Lock Clamp & Fitting Lock Device*

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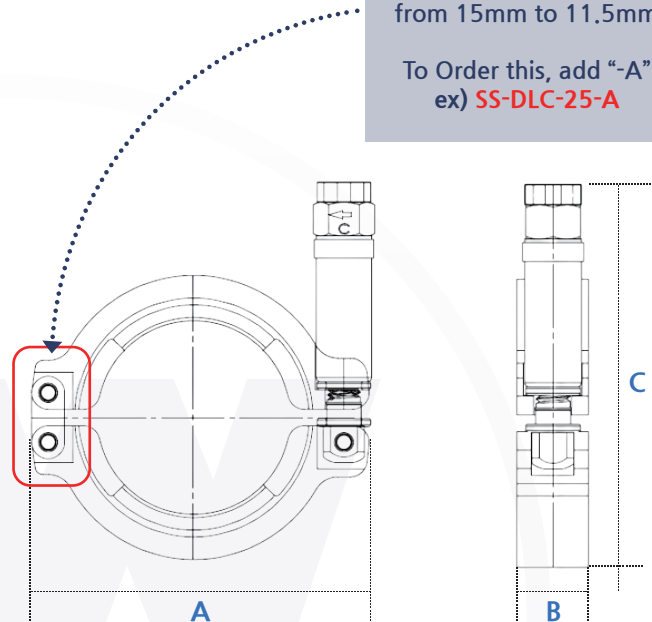
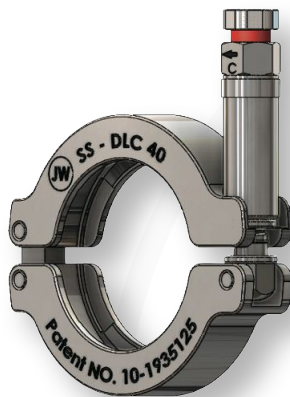
# Jiwoo A TECH DOUBLE LOCK CLAMPS

## Double Lock Clamps 이중 잠금 클램프

### General Double Lock Clamp for KF(NW) Flanges

- Material : Stainless Steel
- Flange type : KF Flange (NW type)
- Flange size : NW 16 ~ 50
- Locking type : Double Locking

Re-Design for ASM Only  
Hinge Dimension Changes from 15mm to 11.5mm  
To Order this, add "-A"  
ex) **SS-DLC-25-A**



Material	Size	Part Number	Primary Lock		Secondary Lock		Length (mm)			Weight (g)
			Thread	Torque (Kgf.cm)	Thread	Torque (Kgf.cm)	A	B	C	
Stainless Steel	NW16	SS-DLC-16	M8/ 16-4/5	70±10	M5/5	20±5	57.56	17.00	69.50	174.0
	NW25	SS-DLC-25					67.87	17.00	74.50	204.0
	NW40	SS-DLC-40					83.05	17.00	91.50	254.0
	NW50	SS-DLC-50					103.25	17.00	101.50	325.0

\*\* Outering 미체결 조건 | Above information is the standard condition for not assembling a 'Outer-Ring'.

### Fixed Lock Clamp / Previous Ver.

- Material : Stainless Steel
- Flange type : KF Flange (NW type)
- Flange size : NW 16 ~ 50
- Locking type : Double Locking

Size	Part Number
NW16	SS-FLC-16-R
NW25	SS-FLC-25-R
NW40	SS-FLC-40-R
NW50	SS-FLC-50-R
NW50 Half Type	SS-FLC-50-AR

\*\* Outering 체결 조건 | Please use 'Outer-Ring' to meet the conditions below  
Primary lock : Thread M8/16-4/5, 70±10 Kgf.cm  
Secondary lock : Thread M5/5, 20±5 Kgf.cm

### Chain Clamp for KF(NW) Flanges

- Material : Stainless Steel / Aluminium (Chain)
- Flange type : KF Flange (NW type)
- Flange size : NW 63 ~ 150
- Locking type : Double Locking

Size	Part Number
NW63	SS-FLC-63-C
NW80	SS-FLC-80-C
NW100	SS-FLC-100-C
NW125	SS-FLC-125-C
NW160	SS-FLC-160-C

\*\* Outering 체결 조건 | Please use 'Outer-Ring' to meet the conditions below  
Primary lock : Thread M10/21-1/2, 110±10 Kgf.cm  
Secondary lock : Thread M6/10, 20±5 Kgf.cm