

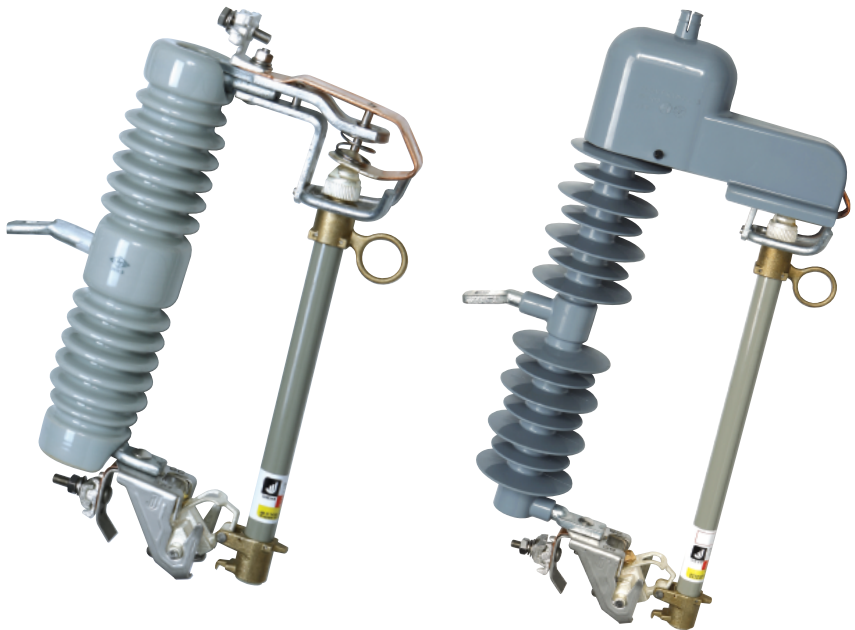


[www.joongwon.co.kr](http://www.joongwon.co.kr)



# 15kV ~ 38kV Cutouts for Overhead Distribution Line

Type of Cutouts : JW SQ



**JOONGWON Co., Ltd.**

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## Introduction

The Joongwon cutouts(JW SQ) are designed to meet increasing requirement of the electric utility industry, providing a safe, maintenance free, long life, economical device to perform overcurrent protection on overhead distribution lines. The cutouts are used on overhead distribution systems to provide overcurrent protection and visible indication of fuse operation. The cutouts provides a visible break sectionalizing point for maintenance personnel and is equipped with hooks for use with a portable loadbreak tool. This allows the cutouts to be used as a loadbreak switch to open the circuit with load current flowing.

Porcelain or silicone insulators, seacoast design and kickout spring options are available on certain models.

## Features

- Easy tube insertion
- Low contact resistance
- Positive alignment when closing
- Completely reliable dropout, regardless of fault-current level
- Silicon & porcelain insulation provides industry leading reliability

## Cutouts Design

### ● Mechanical construction of the JW SQ cutouts are rugged and strong

- It is designed to withstand the interruption forces of heavy fault currents and the typically forceful closing-in by linemen.

### ● Superb current transfer

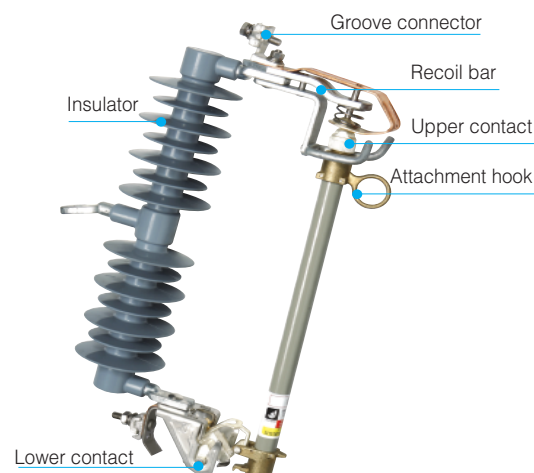
- minimum electrical resistance between the upper contact and the silver-clad fuse tube cap.
- The fuse tube is held at the upper contact by a self-aligning spring-loaded detent-type latch.

### ● No fuse link breakage

- The JW SQ cutouts have been engineered to prevent fuse-link breakage

### ● Interchangeability

- The JW cutouts are designed to be electrically and mechanically interchangeable with the S&C and Cooper fuse link and fuse holder.
- Cutouts perform by expelling gases during interruption from the bottom of the fuse tube. For the highest interrupting rating, a link extender rod is attached to the fuse tube cap, improving the efficiency of gas expulsion and arc interruption. Fuse tubes are clearly labeled to indicate interrupting capability.



## Ratings

### ● Ratings and technical data

ITEM	80445	80445-P	80445-P	80445-H	80442	80442-P	80442-G	80445-PG	80443	UNIT
RATED SYSTEM VOLTAGE	34.5	27/38		25.8			20		14.5	kV
MAXIMUM SYSTEM VOLTAGE	34.5	27/38		25.8			20		14.5	kV
RATED CONTINUOUS CURRENT	100									A
POWER FREQUENCY WITHSTAND VOLTAGE										
DRY (1MIN.)	60				42				36	kV
WET (10SEC.)	50				36				30	kV
LIGHTNING IMPULSE WITHSTAND VOLTAGE	170		150			125			95	kV
INTERRUPTING CURRENT										
ASYMMETRICAL	12						-		16	kA
SYMMETRICAL	8						7.2		10.6	
CREEP DISTANCE	660(26")				280(11")	580(11")	430	580	216	mm
INSULATOR	Porcelain	Silicone	silicone	Porcelain	Porcelain	silicone	Porcelain	silicone	Porcelain	
APPLIED STANDARD	IEEE C37.41 & C37.42									

Note : According to the user's demand, Joongwon can supply JW Cutouts with different ratings not indicated above.





## J & W PRODUCTS

### Switches

- 25.8kV Cutouts
- 25.8kV Pole Mounted SF<sub>6</sub> Gas Insulated Load Break Switch (Automatic-630/400A, Manual-400A)
- 25.8kV SF<sub>6</sub> Gas Insulated Load Break Switch For Underground (600A, 4W/4S-Automatic/Manual, 3W/3S-Manual)
- 25.8kV Auto Section Switch (200A, Automatic/Manual)
- 25.8kV Auto Section Switch (Indoor type) (200A, Automatic/Manual)
- 25.8kV Interrupter Switch (Single/Double)
- 24kV Load Break Switch (Indoor type)
- 25.8kV Disconnecting Switch
- 25.8kV Polymer Insulated Load Break Switch (630A, Automatic/Manual)

### Breakers

- 7.2kV 8kA Vacuum Circuit Breaker (400A)
- 7.2kV 12.5kA Vacuum Circuit Breaker (630A)
- 7.2kV 20kA Vacuum Circuit Breaker (630/1250A)
- 7.2kV 31.5kA Vacuum Circuit Breaker (630/1250/2000A)
- 15kV 25kA Vacuum Circuit Breaker (630/1250A/2000A)
- 24kV 12.5kA Vacuum Circuit Breaker (630/1250A)
- 24kV 25kA Vacuum Circuit Breaker (630/1250/2000A)
- 7.2/12/24kV 12.5kA Vacuum Circuit Breaker (630A)
  - Magnetic Actuator type
- 25.8kV 25kA MCSG Vacuum Circuit Breaker (630/1250A)

### Recloser

- 12/15/17.5kV 12.5/16kA Recloser (630A)
- 24/25.8/27kV 12.5/16kA Recloser (630A)
- 36/38kV 12.5/16kA Recloser (630A)

### Fuses

- 25.8kV Power Fuse (Outdoor type) (1~200K)
- 25.8kV Power Fuse (Indoor type) (1~200K, 300E, 400E)
- 25.8kV Power Fuse Unit (1~200K)
- 25.8kV Fuse Link (1~100K)
- Wire Fuse (38A, 50A)
- Low Voltage Current Limiting Fuse
- 24kV High Voltage Current Limiting Fuse
- 15.5kV Current Limiting Fuse
- 7.2kV Medium Voltage Current Limiting Fuse (1~100A)
- Current Limiting Fuse Holder (7.2/24kV)
- 24kV Fuses For Protection of PT (1A)

### Absorbers / Arresters

- Surge Arrester (4, 5, 9, 18kV-5kA)
- Polymer Lightning Arrester (6, 12, 18kV-5kA)
- Polymer Surge Absorber (3.6, 7.2, 18kV)

### Metering Out Fit

- 25.8kV Metering Out Fit (5/5A-400/5A)
- 25.8kV PT (25~200VA)
- 25.8kV GPT (25/50~100/200VA)

### Conductive Concrete

- Earthing Products

### Photo Etching



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