

## Brief Instructions

# Washer Gaskets, split WA.SP.\*

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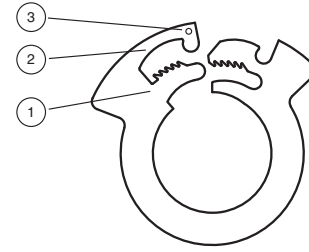
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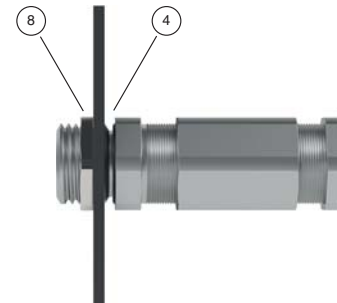
ENG

The split washer gasket consists of a ratched mechanism (1) and a retaining clip (2). The washer surface marked with the dot (3) on the retaining clip must be in contact with the cable gland sealing surface when installed.



### Installation if the enclosure has thru-holes:

The washer gasket must be installed with the surface marked with the dot (3) facing the cable gland sealing surface.

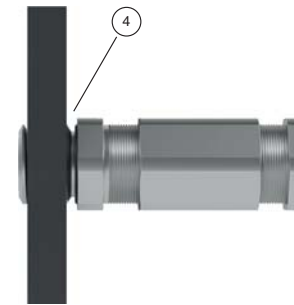


- Unscrew the cable gland and open a gap (4) of min. 3 mm between enclosure and cable gland sealing surface
- Select correct size of split washer gasket based on the entry size of the cable gland
- Inspect and clean both surfaces of the split washer gasket
- Do not use damaged split washer gaskets with scratches, cuts or other surface imperfections
- Apply a small amount of electrical insulating compound (Dow Corning 4 or similar) to both sides of the split washer gasket
- Insert the split washer gasket into the gap (4) and make sure it can freely rotate (5)
- Make sure the surface with the dot (3) is facing the cable gland sealing surface (5)
- Close the split washer gasket by pressing the ratched mechanism (1) together until all teeth are engaged and no gap is visible between the teeth (6)
- Close the retaining clip (2) until it is fully engaged (7)
- Tighten the locknut (8) on the inside of the enclosure by hand
- Tighten the locknut (8) on the inside of the enclosure half a turn with the appropriate tool



### Installation if the enclosure has threaded holes:

The washer gasket must be installed with the surface marked with the dot (3) facing the cable gland sealing surface.



- Unscrew the cable gland and open a gap (4) of min. 3 mm between enclosure and cable gland sealing surface
- Select correct size of split washer gasket based on the entry size of the cable gland
- Inspect and clean both surfaces of the split washer gasket
- Do not use damaged split washer gaskets with scratches, cuts or other surface imperfections
- Apply a small amount of electrical insulating compound (Dow Corning 4 or similar) to both sides of the split washer gasket
- Insert the split washer gasket into the gap (4) and make sure it can freely rotate (5)
- Make sure the surface with the dot (3) is facing the cable gland sealing surface (5)
- Close the split washer gasket by pressing the ratched mechanism (1) together until all teeth are engaged and no gap is visible between the teeth (6)
- Close the retaining clip (2) until it is fully engaged (7)
- Tighten the cable gland in the threaded hole of the enclosure by hand
- Tighten the cable gland half a turn with the appropriate tool
- Re-assemble the cable gland

## Validity

Specific processes and instructions in this instruction manual require special provisions to guarantee the safety of the operating personnel.

## Target Group, Personnel

Responsibility for planning, assembly, commissioning, operation, maintenance, and dismantling lies with the plant operator.

The personnel must be appropriately trained and qualified in order to carry out mounting, installation, commissioning, operation, maintenance, and dismantling of the device. The trained and qualified personnel must have read and understood the instruction manual.

## Reference to Further Documentation

Observe laws, standards, and directives applicable to the intended use and the operating location. Observe Directive 1999/92/EC in relation to hazardous areas.

The corresponding datasheets, manuals, declarations of conformity, EC-type-examination certificates, certificates, and control drawings if applicable (see datasheet) are an integral part of this document. You can find this information under [www.pepperl-fuchs.com](http://www.pepperl-fuchs.com).

## Intended Use

The Split Washer Gaskets enable repair to damaged or missing washers on existing installed cable entries without having to dismantle the affected cable glands. This split washer enables cost effective and efficient repairs by reducing the amount of people, materials and tasks involved compared to the standard repair process.

## Mounting and Installation

Observe the installation instructions according to IEC/EN 60079-14.

Observe IEC/EN 60079-19 for repair and overhaul.

Local / national or plant specific electrical, grounding, H&S or installation rules and regulations shall be taken into account during installation.

If you intend to install the device in areas that may be exposed to aggressive substances, ensure that the stated surface materials are compatible with these substances. If required, contact Pepperl+Fuchs for further information.

The installation process may require opening the enclosure. Make sure all required isolation measures are in place before opening the enclosure.

Before opening the enclosure make sure that the built-in components are de-energized.

When energized, the enclosure may only be opened for maintenance, if only intrinsically safe circuits are used inside the enclosure.

Before reassembly, make sure both gasket and sealing faces are in good and clean condition to assure the degree of protection.

Tighten all cable glands with the appropriate torque.

Close all unused cable glands with the appropriate sealing plugs.

Close all unused enclosure holes with the appropriate stopping plugs.

## Technical Specifications

General	
Types and variants	WA.SP.* - see type code table
Mechanical specifications	
Dimensions	see datasheet
Degree of protection	IP66 , IP68 (1 h @ 100 kPa)
Material	
Washer gasket	TPV thermoplastic vulcanizate / Santoprene
Finish	inherent color black
Ambient conditions	
Ambient temperature	-60 ... 135 °C (-76 ... 275 °F)

## Type Code / Model Number

1	2	3	4	5	6
WA	. SP	. *	. **	. **	. K**
WA	. SP	. M	. 20	. SA	. K10

Example: WA.SP.M20.SA.K10

Split washer gasket for thread size M20, material santoprene, 10 pieces

1	Series
WA	washer gasket
2	Type
SP	split
3	Thread type
M	metric ISO pitch 1.5
4	Thread size
n	see datasheet
5	Material
SA	TPV thermoplastic vulcanizate / Santoprene
6	Packaging unit
K10	10 units per package

## Delivery, Transport, Disposal

Disposing of device and packaging must be in compliance with the applicable laws and guidelines of the respective country.