

KFV / SFV



KFR



KGV / SGV



	Date	Name	Edition	1	2	3	4	5	6
Author	05.04.22	fs	Name	jvoss	fs				
Checked	22.04.25	jas	Date	23.07.24	16.04.25				

KGR / SGR



0304, 0304-1 / 0314, 0314-1



0306, 0306-1 / 0316, 0316-1



0305, 0305-1 / 0315, 0315-1



0307, 0307-1, 030798-1 / 0317, 0317-1, 031798-1



0308, 0308-1 / 0318, 0318-1



KFV C / SFV C



KGV C / SGV C



036297



0362 / 0363



Alteration description

[illegible]

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1. Product types

1.1. KVV / SFV

front mounting, with terminals for iron soldering, IP40



panel mount female
KVV acc. to data sheet 0301 01



panel mount male
SFV acc. to data sheet 0311 01

1.2. KFR

front mounting, with terminals for PC board soldering, IP40



panel mount female
KFR acc. to data sheet 0304 01

1.3. KGV / SGV

rear mounting, with terminals for iron soldering, IP40



panel mount female
KGV acc. to data sheet 0302 01



panel mount male
SGV acc. to data sheet 0312 01

1.4. KGR / SGR

rear mounting, with terminals for PC board soldering, IP40



panel mount female
KGR acc. to data sheet 0303 01



panel mount male
SGR acc. to data sheet 0313 01

1.5. 0304, 0304-1 / 0314, 0314-1

front mounting, with terminals for iron soldering, IP68



panel mount female
0304 acc. to data sheet 0304 10
0304-1 acc. to data sheet 0304 11



panel mount male
0314 acc. to data sheet 0314 10
0314-1 acc. to data sheet 0314 11

1.6. 0306, 0306-1 / 0316, 0316-1

front mounting, with terminals for PC board soldering, IP68



panel mount female
0306 acc. to data sheet 0306 10
0306-1 acc. to data sheet 0306 11



panel mount male
0316 acc. to data sheet 0316 10
0316-1 acc. to data sheet 0316 11

1.7. 0305, 0305-1 / 0315, 0315-1

rear mounting, with terminals for iron soldering, IP68



panel mount female

0305 acc. to data sheet 0305 10

0305-1 acc. to data sheet 0305 12



panel mount male

0315 acc. to data sheet 0315 10

0315-1 acc. to data sheet 0315 12

1.8. 0307, 0307-1, 030798-1 / 0317, 0317-1, 031798-1

rear mounting, with terminals for PC board soldering, IP68



panel mount female

0307 acc. to data sheet 0307 10

0307-1 acc. to data sheet 0307 11

030798-1 acc. to data sheet 030798 02



panel mount male

0317 acc. to data sheet 0317 10

0317-1 acc. to data sheet 0317 11

031798-1 acc. to data sheet 031798 02

1.9. 0308, 0308-1 / 0318, 0318-1

front mounting, with terminals for iron soldering, IP68



flange panel mount female

0308 acc. to data sheet 0308 13

0308-1 acc. to data sheet 0308 14



flange panel mount male

0318 acc. to data sheet 0318 15

0318-1 acc. to data sheet 0318 16

1.10. K FV C / S FV C

front mounting, empty housing for crimp contacts, IP40



panel mount female
K FV C acc. to data sheet 0301 03



panel mount male
S FV C acc. to data sheet 0311 03

1.11. KGV C / SGV C

front mounting, empty housing for crimp contacts, IP40



panel mount female
KGV C acc. to data sheet 0302 03



panel mount male
SGV C acc. to data sheet 0312 03

1.12. 036297

front mounting, empty housing for crimp contacts, IP68



flange panel mount female
036297 acc. to data sheet 0362 03

1.13. 0362 / 0363

empty housing for crimp contacts, IP68



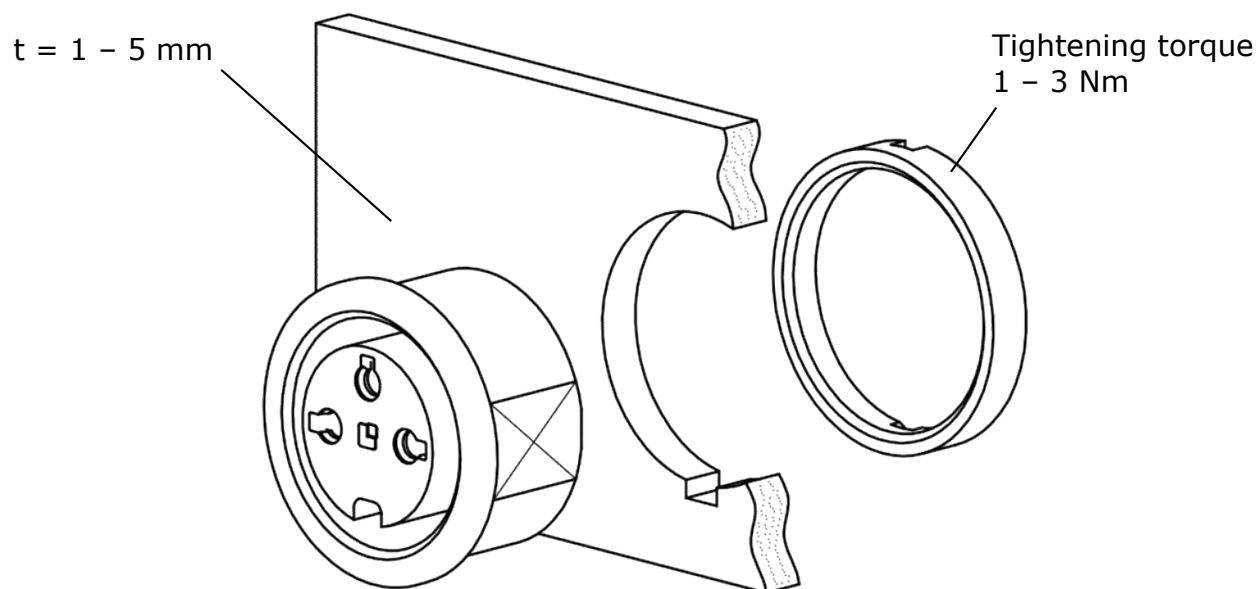
panel mount female
front mounting
0362 acc. to data sheet 0362 01



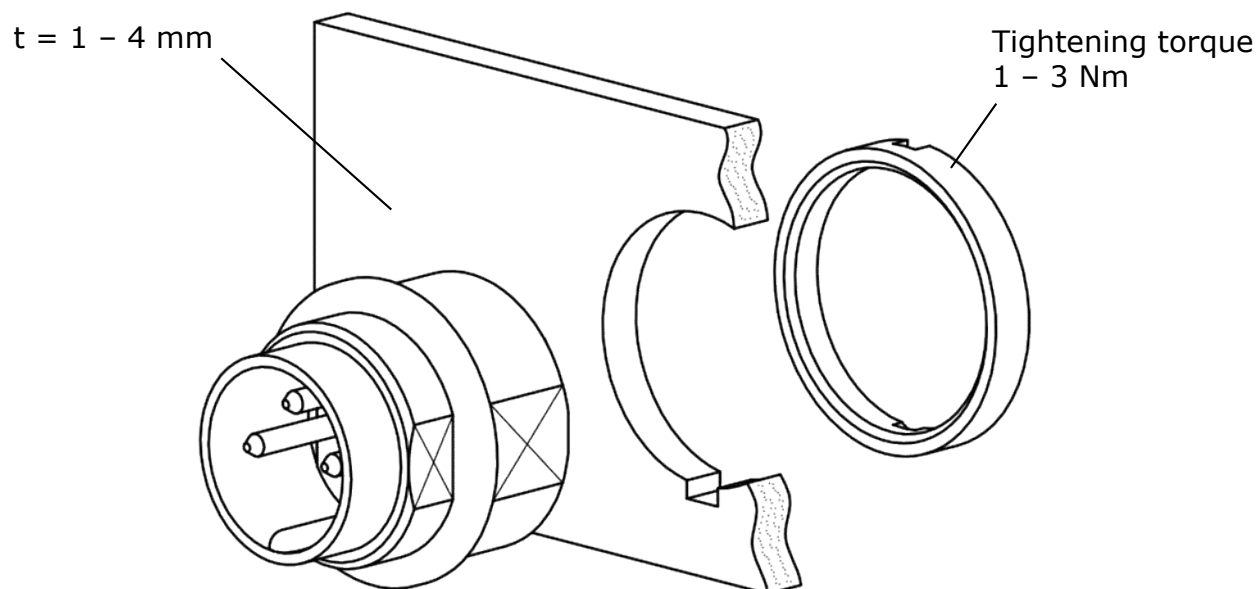
panel mount female
rear mounting
0363 acc. to data sheet 0363 01

2. Assembly instruction

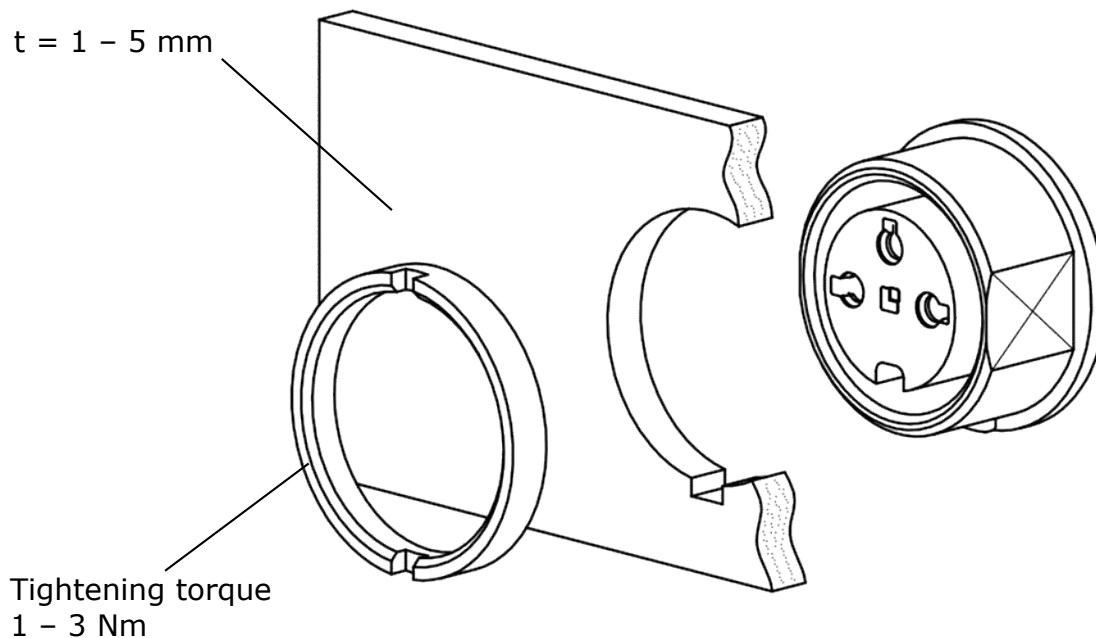
2.1. KFV, KFR, KFV C for front mounting



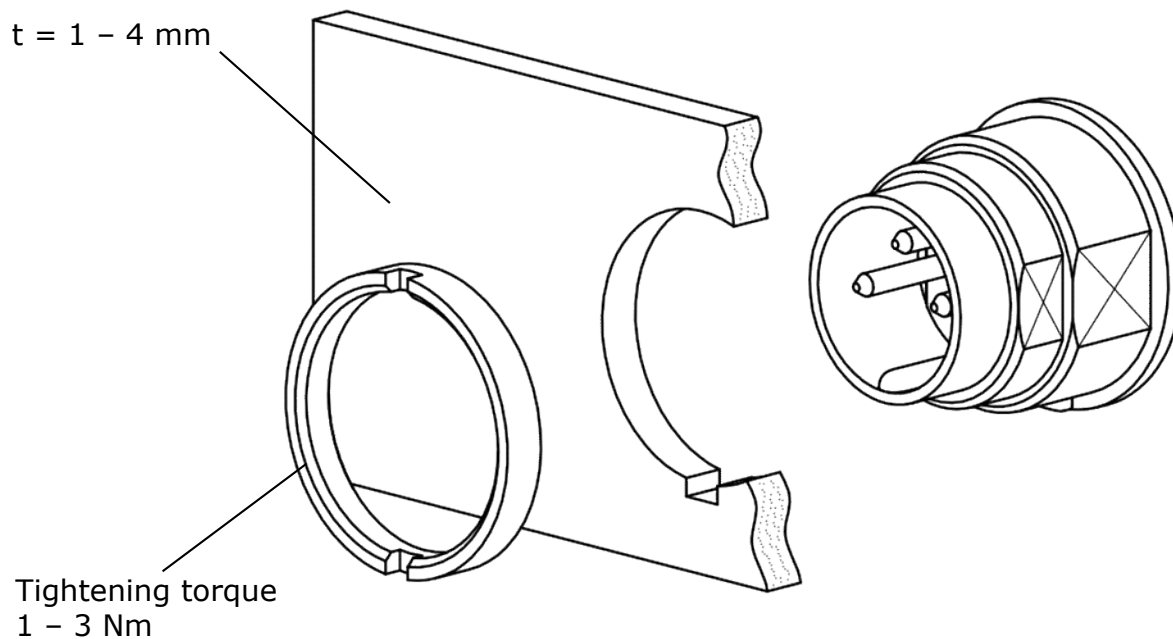
2.2. SFV, SFV C for front mounting



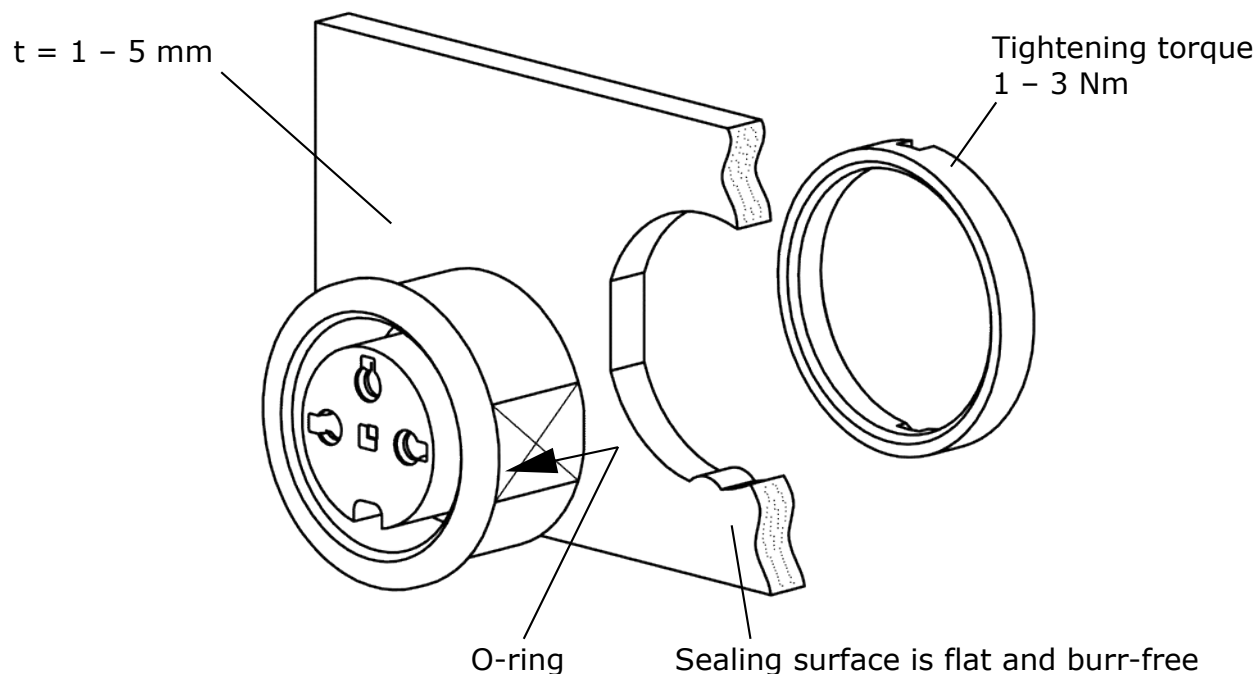
2.3. KGV, KGR, KGV C for rear mounting



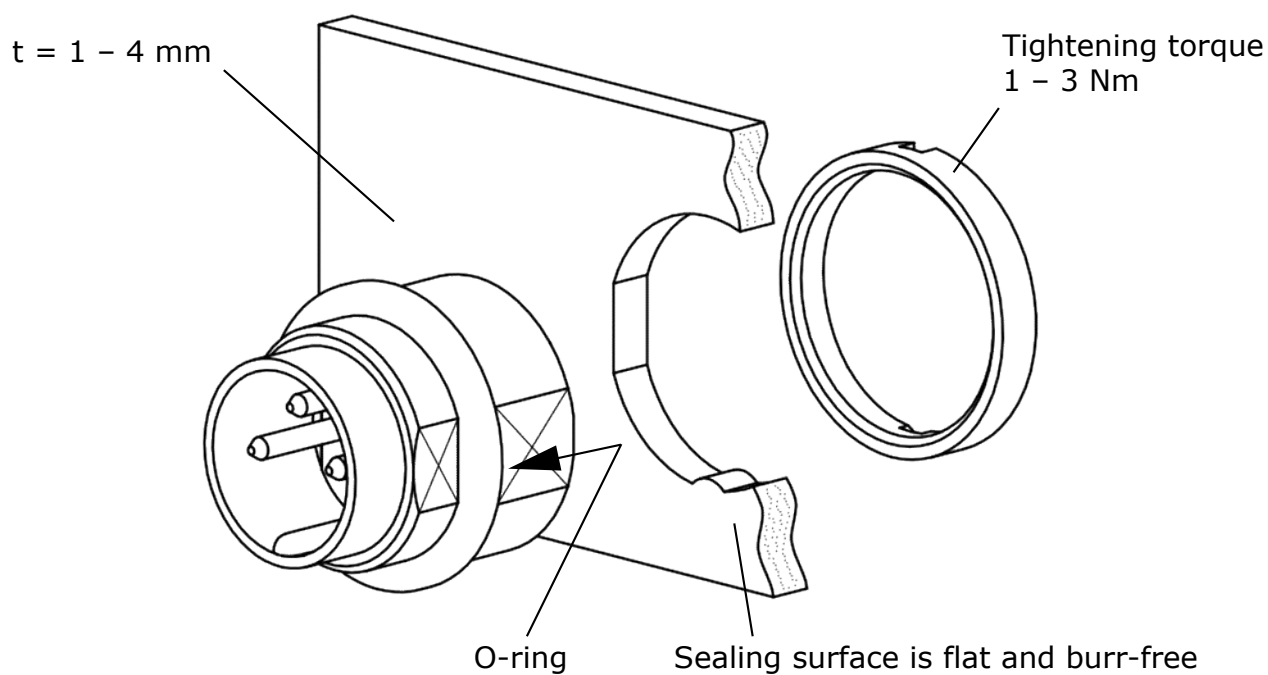
2.4. SGV, SGR, SGV C for rear mounting



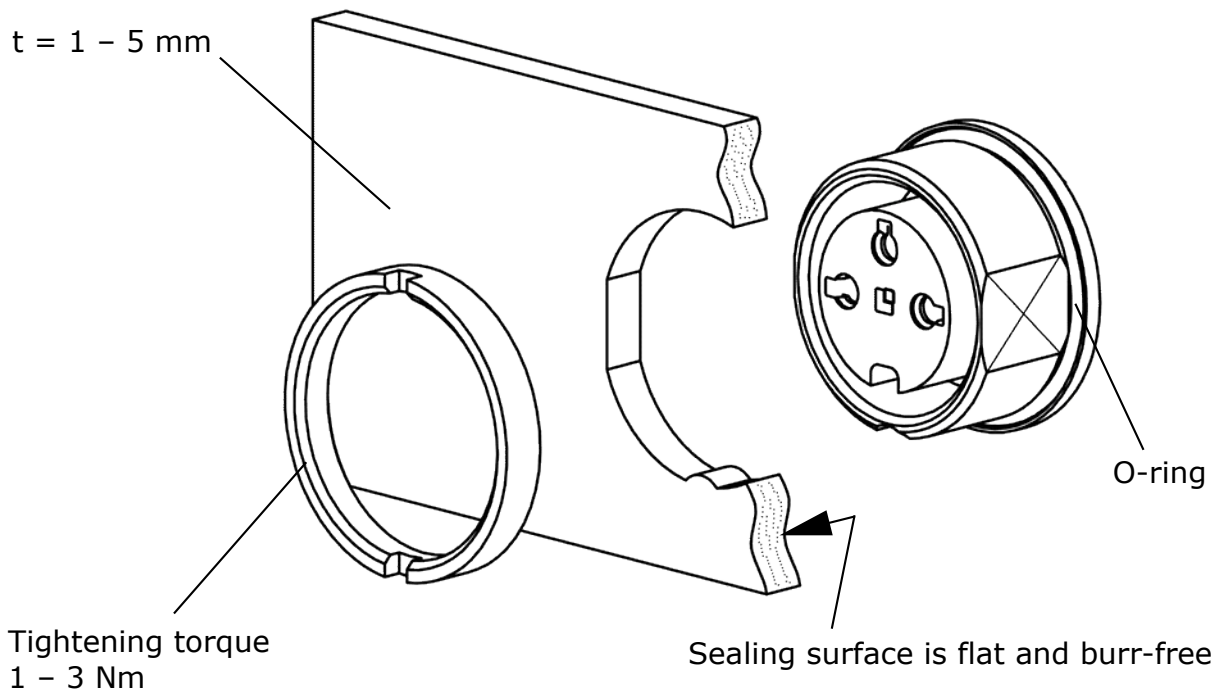
2.5. 0304, 0304-1, 0306, 0306-1, 0362 for front mounting



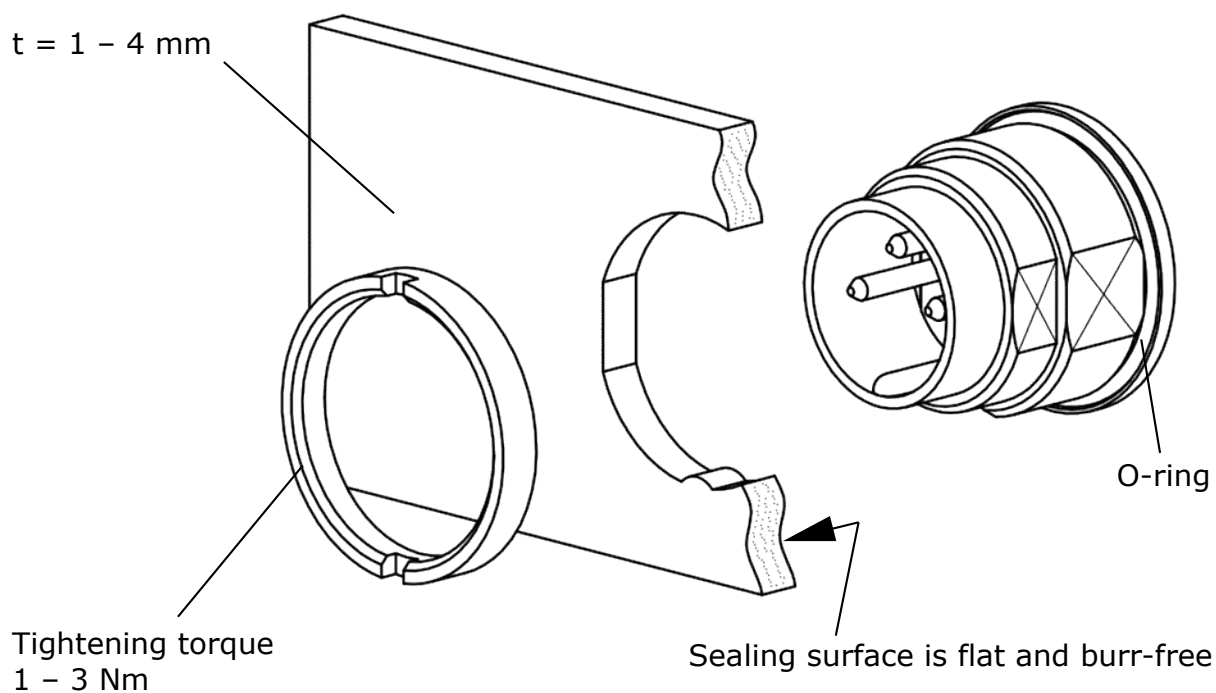
2.6. 0314, 0314-1, 0316, 0316-1 for front mounting



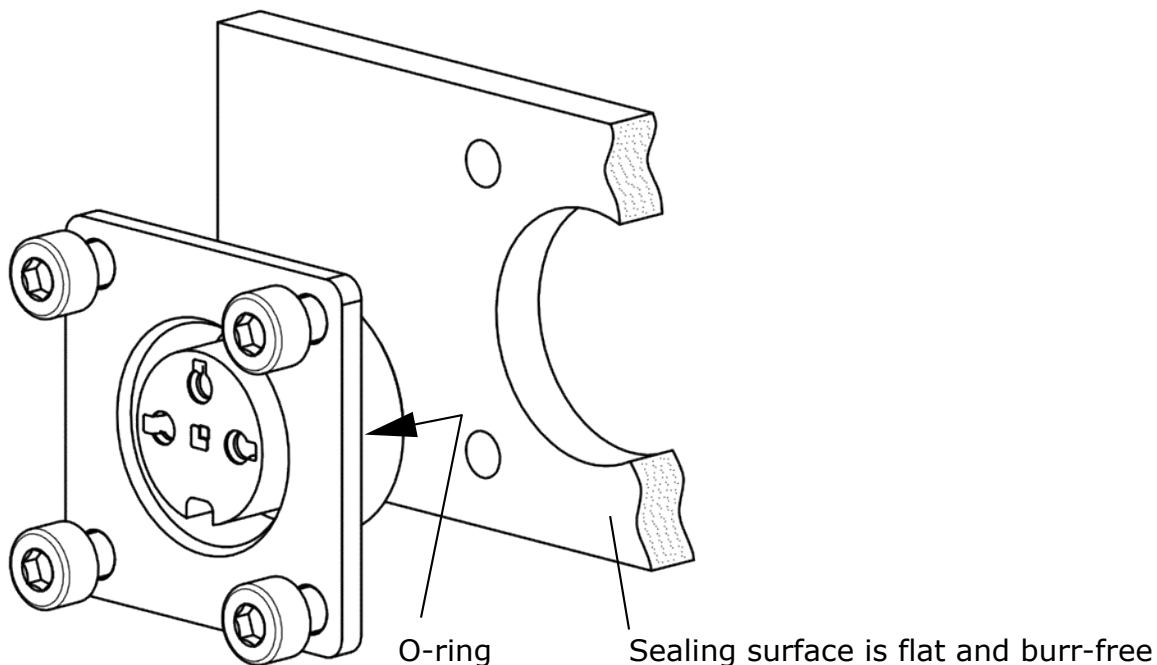
2.7. 0305, 0305-1, 0307, 0307-1, 030798-1, 0363 for rear mounting



2.8. 0315, 0315-1, 0317, 0317-1, 031798-1 for rear mounting

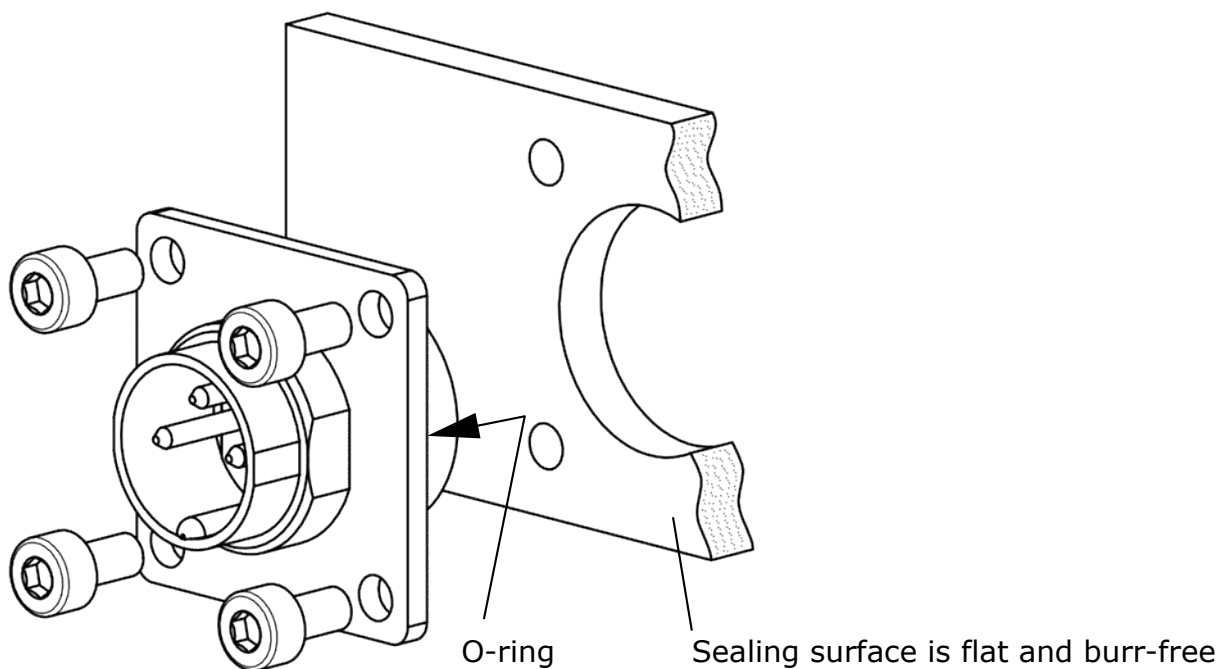


2.9. 0308, 0308-1, 036297 for front mounting



Suitable screw seals must be provided for the mounting holes (optionally with threads).

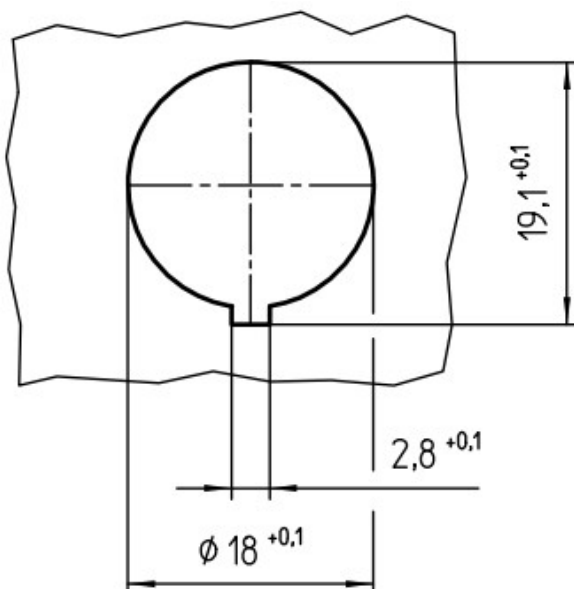
2.10. 0318, 0318-1 for front mounting



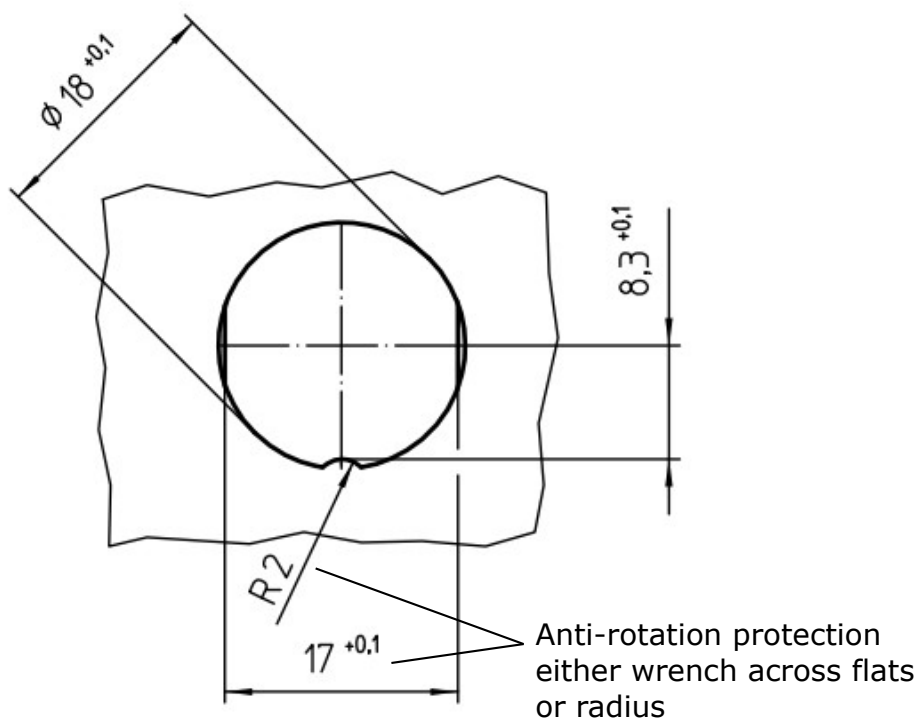
Suitable screw seals must be provided for the mounting holes (optionally with threads).

2.11. Dimensions of the chassis mounting port

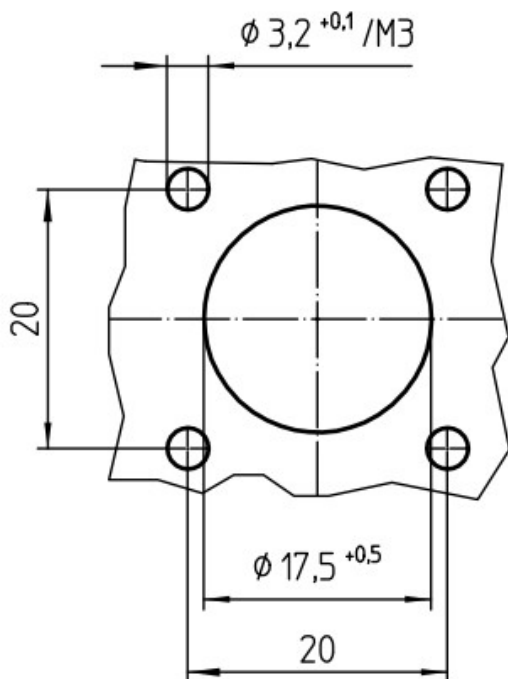
For product types IP40: KVV, KVV C, KFR, KGV, KGV C, KGR,
SFV, SFV C, SGV, SGV C, SGR



For product types IP68: 0304, 0304-1, 0305, 0305-1, 0306, 0306-1, 0307,
0307-1, 030798-1, 0362, 0363, 0314, 0314-1, 0315, 0315-1, 0316, 0316-1,
0317, 0317-1, 031798-1



For product types flange: 0308, 0308-1, 036297, 0318, 0318-1



Suitable screw seals must be provided for the mounting holes (optionally with threads).

2.12. Crimp contacts

For product types KfV C, KGV C, SFV C, SGV C, 0362, 0363, 036297



acc. to data sheet 0364 01



acc. to data sheet 0369 01

Lumberg's manual tongs or processing machines must be used for termination of crimp contacts.

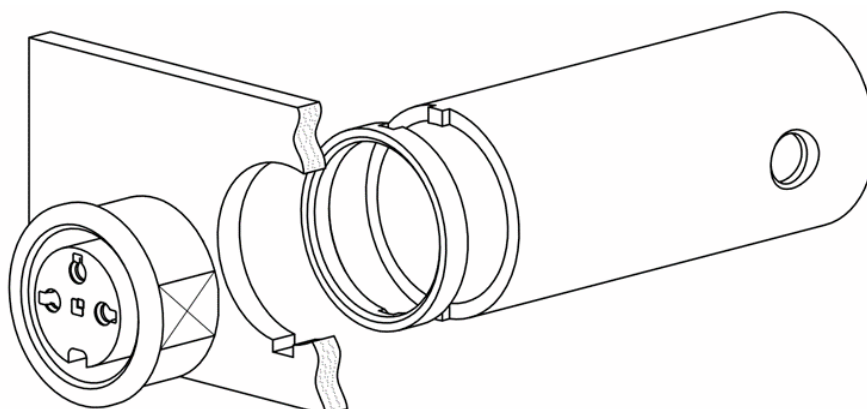
3. Tools

3.1. Mounting wrench

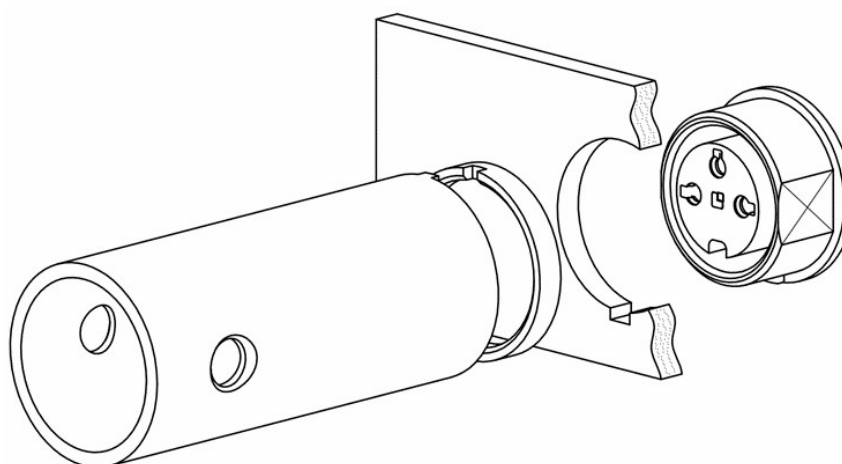
Lumberg recommends the ZMS 20 mounting wrench for mounting the M16 circular connector:



3.1.1. Front mounting



3.1.2. Rear mounting

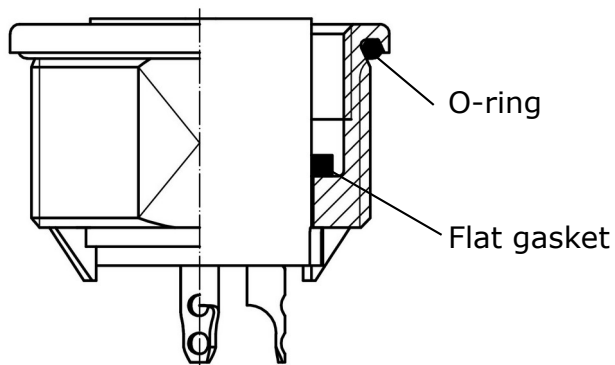


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4. Quality assurance For all working and processing steps and alterations (e.g. product launch, changes of the cable, changes of the tool or machine ...), which may affect the product quality, the responsible departments have to take care for appropriate quality assurance steps. 4.1. Quality features The following quality features must be taken into consideration: • Cable jacket stripping • Wire stripping • Wire soldering • Printed circuit board layout • Wire crimping • Seals for the panel mount female • Seals for the panel mount male • Condition of the chassis mounting port • Tightening torques 4.1.1. Cable jacket stripping The user must ensure that the insulation of the wires is not damaged during the stripping process. 4.1.2. Wire stripping The user must ensure that the individual wire strands are not damaged during the stripping process. Stripping length soldering: 3,5 ± 0,5 mm Stripping length crimping: 4,3 ± 0,5 mm 4.1.3. Wire soldering It is important to ensure that the individual wire strands do not stick out and cause a short circuit. Furthermore it is not allowed to reduce spacing between electrical conducting elements e.g. by protruding tin solder. 4.1.4. Printed circuit board layout The printed circuit board layout can be found in the corresponding technical data sheet. 4.1.5. Wire crimping For production of crimping termination Lumberg manual tongs or processing machines have to be used.		

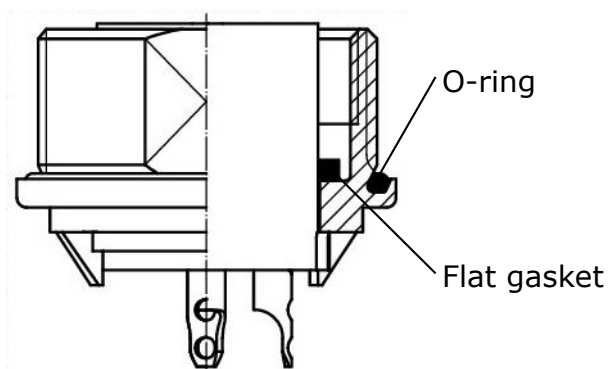
4.1.6. Seals for the panel mount female

Make sure that the seals are in place during the mounting process.
Valid for the IP68-variant panel mount females.

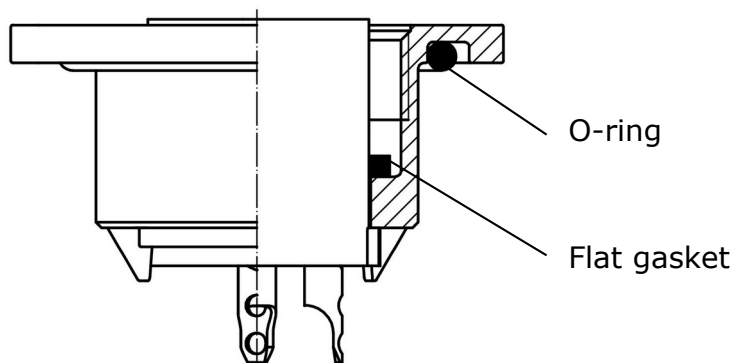
Type front mounting



Type rear mounting



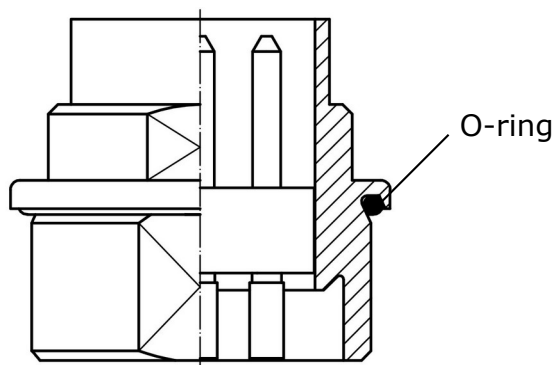
Type flange mounting



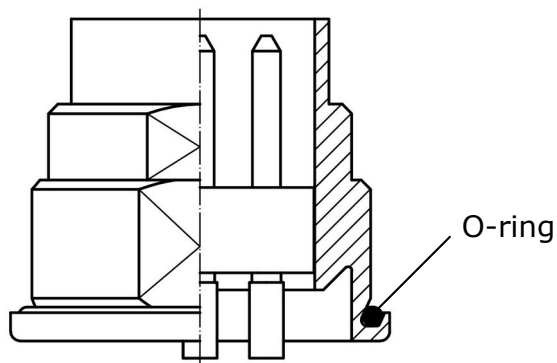
4.1.7. Seals for the panel mount male

Make sure that the seals are in place during the mounting process.
Valid for the IP68-variant panel mount males.

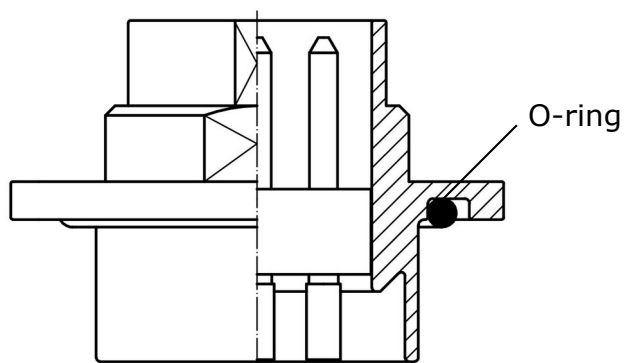
Type front mounting



Type rear mounting



Type flange mounting



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4.1.8. Condition of the chassis mounting port

The sealing surface of the chassis mounting port must be flat and burr-free.
For the flange variants, suitable screw seals must be provided for the mounting holes.

4.1.9. Tightening torques

Tightening torque M16:	1-3 Nm
Tightening torque ring nut M18:	1-3 Nm

4.2. Important recommendations and notices

Any use of auxiliary substances (lubricants, oils, fats, etc.) during the assembly is not permitted. Any type of contamination during assembly (from dust, moisture, etc.), will have a negative impact on the lifespan and functionality of the system. Thus, it is very important to carry out the assembly in clean surroundings.

5. Terms of storage

The general terms and conditions of storage are available on the internet under Downloads at www.lumberg.com. The specified terms of storage must be complied with.