

TEST REPORT

IP69 test of LED light model 57260

Sse A/S

Report no.: 126-28314-1

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2 appendices



TEST Reg. no. 19

Task manager

Jens Schoustrup-Thomsen
2026-09-04

Digitally signed by Jens Schoustrup-Thomsen
jst@forcetechnology.com
Technician

Responsible

Kristian Kolbye Jensen
2026-09-04

Digitally signed by Kristian Kolbye Jensen
krj@forcetechnology.com
Specialist

OVERVIEW

Title	IP69 test of LED light model 57260	
Test objects	2 pcs. LED light model 57260 Detailed information is given in Section 2 The test object was received 7 August 2026	
Task no.	126-28314	
Report no.	126-28314-1	
Test period	12 August 2026 - 14 August 2026	
Client	Sse A/S Mariendalsvej 28 DK-8800 Viborg Tel: +45 86 64 55 65	
Contact person	Loi Pham lp@sse-as.dk	
Manufacturer	Sse A/S	
Specifications	IEC 60529:2013 Edition 2.2 "Degrees of protection provided by enclosures (IP Code)"	
Results	See Section 1, Summary of test and Section 4, results	
Revisions	Initial version	
Test site	Venlighedsvej 4, 2970 Hørsholm, Denmark	
Test personnel	Jens Schoustrup-Thomsen	Kristian Kolbye Jensen

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1 Summary of test

1.1 Test requirements

The following tests were carried out as agreed with the client.

Test	Test method
Dust protection, IP6X	IEC 60529:2013
Enclosure protection, IPX9	IEC 60529:2013

The test results relate only to the objects tested.

1.2 Introduction

Tightness tests have been performed on 2 pcs. LED light model 57260 in order to evaluate the degree of protection against dust and water provided by the enclosure.

One LED light was tested for ingress of dust according to IEC 60529:2013 Edition 2.2, IP6X. The test was performed as Category 1: See Section 4.1.

The LED light was tested for penetration according to IEC 60529:2013 Edition 2.2, IP6X. The test wire of 1.0 mm is pushed against or inserted through any openings of the enclosure with the specified force. See Section 4.1.

One LED light was tested for ingress of water according to IEC 60529:2013 Edition 2.2, IPX9. See Section 4.2.

The test results relate to the tested objects only.

The test objects were not energised during exposures.

1.3 Conclusion

The visual inspection performed after the IP6X test revealed no dust inside the enclosure.
The probe could not enter the enclosure, and clearance was kept to any hazardous parts.
See photo no.8 to 12 in section 4.1.

The visual inspection performed after the IPX9 test revealed water inside the enclosure.
According to the client "water accumulated inside the housing is acceptable provided it does not interfere with correct operation of the equipment or basic safety". See details in Appendix 2.

2 Test objects

2.1 Test objects

Name of test object	LED Light
Model / type	Model 57260
Serial no.	N/A
Manufacturer	Sse A/S
Supply voltage	None
Comments	–

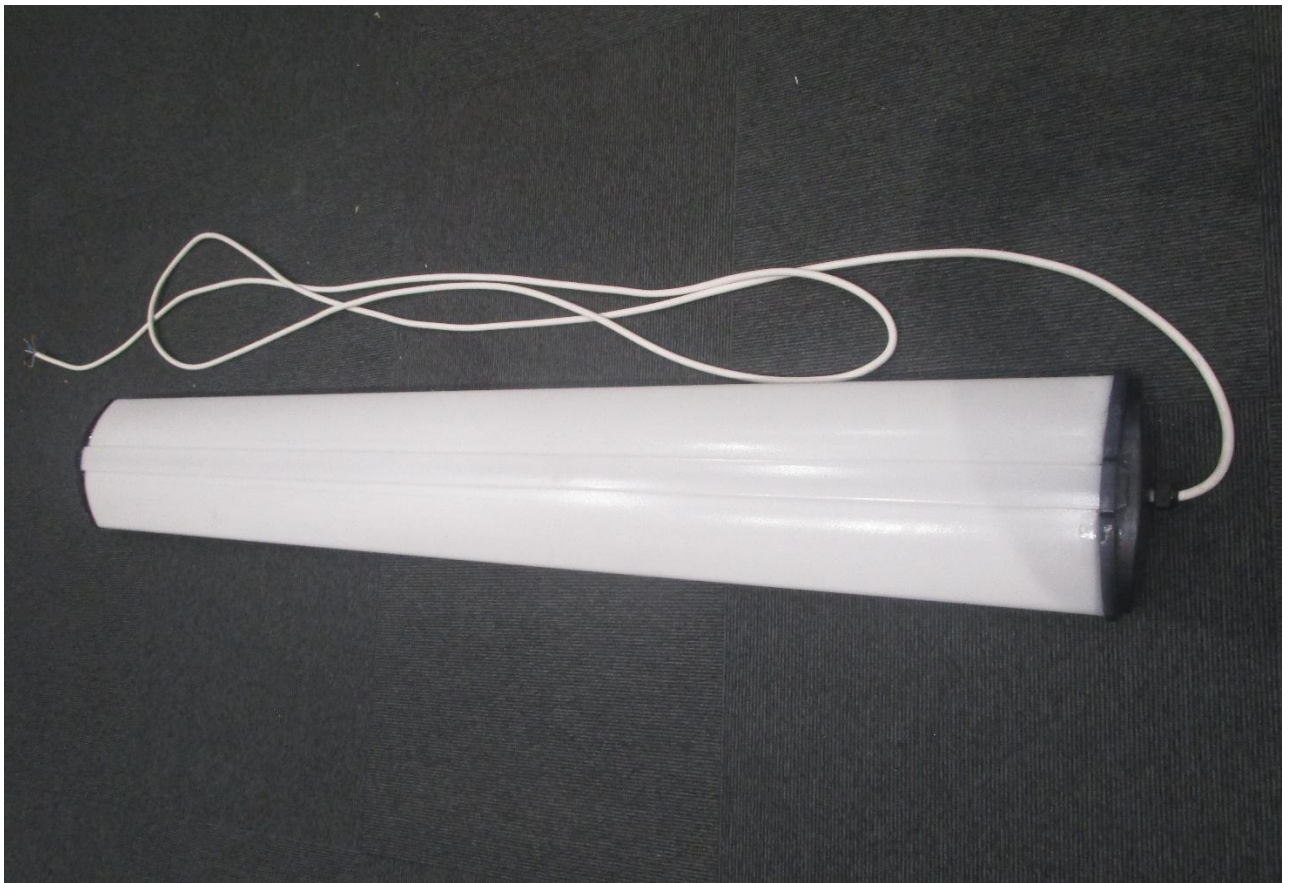


Photo 1 Test object. IP69

3 General test conditions

3.1 Test set-up

Photos of the test set-up is enclosed in Section 4.

3.2 Visual inspection

A visual inspection was carried out by Force Technology after each test. The inspection included opening the test object and looking for ingress of dust and water.

3.3 Standard environment

Normal environmental condition:

Temperature	:	15 °C - 35 °C
Humidity	:	25 %rh - 75 %rh
Air pressure	:	86 kPa - 106 kPa (860 mbar - 1060 mbar)
Power supply voltage	:	$U_{nom} \pm 3 \%$

4 Test and results

4.1 Dust protection, IP6X

Test specification and Test method

IEC 60529:2013 Degrees of protection provided by enclosures (IP Code)

Severity

IP6X (dust-tight):

Category	:	1 (air pressure reduction)
Dust medium	:	Talcum
Air pressure	:	2 kPa (20 mbar) below normal air pressure
Duration	:	8 h

Procedure

The test object is de-energised during the exposure.

The test object is placed inside the dust test chamber in a position as would be expected during normal use. Hereafter, it is exposed to swirling dust conditions as described in the reference specification.

After the exposure, the test object is brushed down on all external surfaces. It is then carefully opened and visually inspected for ingress of dust. Special attention is paid to dust accumulated on parts critical to the functionality of the test object.

Acceptance condition for first characteristic number 6

The protection is satisfactory if, on inspection, no ingress of dust is observed.

Results

The test was performed as specified. A visual inspection showed that there was no ingress of dust inside the enclosure. Furthermore, an $\varnothing$ 1.0 mm test wire could not enter through any holes or openings, and adequate clearance was kept between the test wire and hazardous parts.



Photo 2 Before exposure, IP6X.



Photo 3 After exposure, IP6X.



Photo 4 Visual inspection. IP6X. No dust observed inside enclosure.

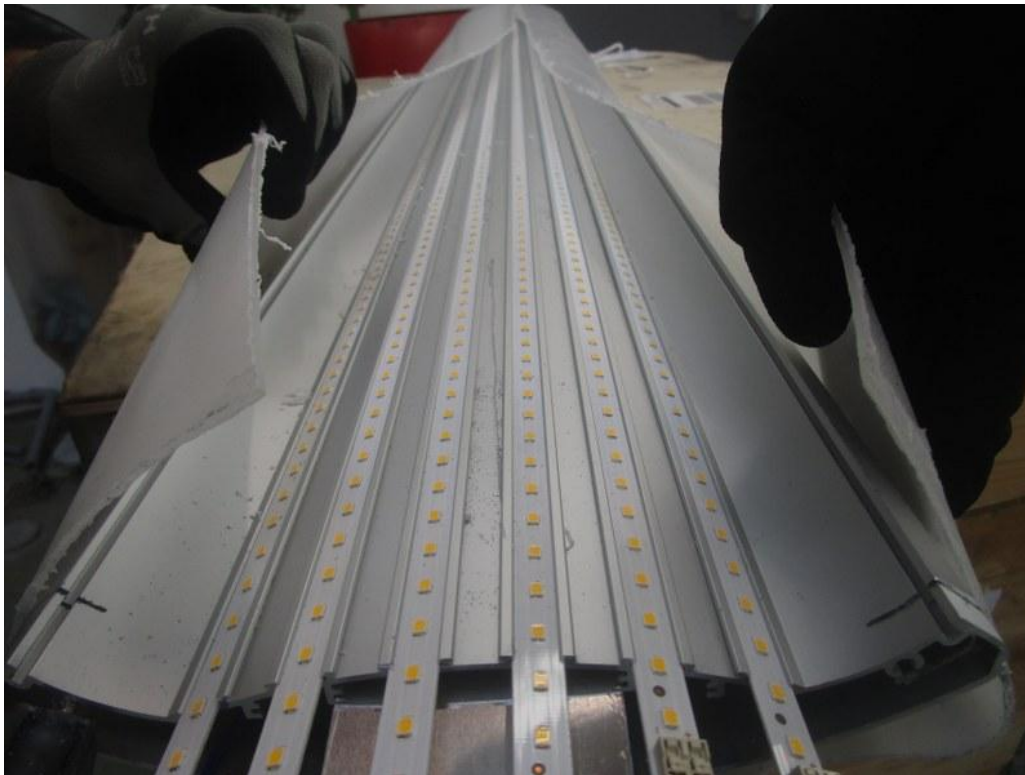


Photo 5 Visual inspection. IP6X. No dust observed inside enclosure.



Photo 6 Visual inspection. IP6X. No dust observed inside enclosure.



Photo 7 Visual inspection. IP6X. No dust observed inside enclosure.

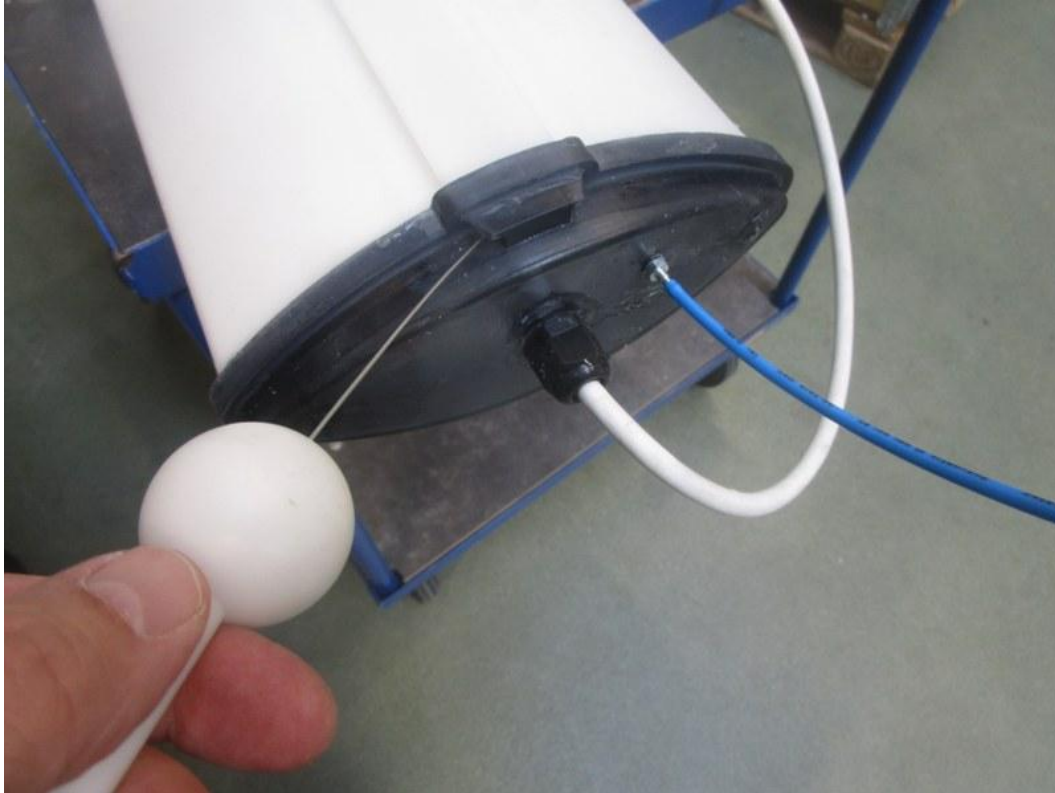


Photo 8 Enclosure protection IP5X. Ø1.0 mm probe could not enter the enclosure and clearance was kept.

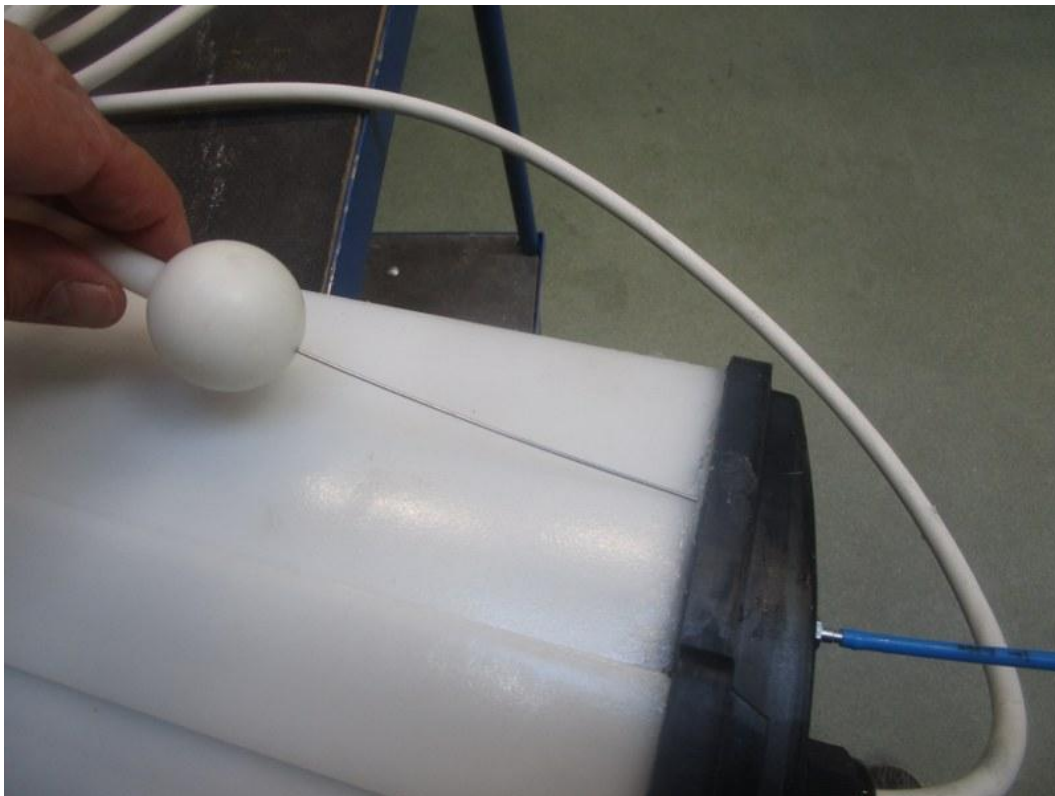


Photo 9 Visual inspection.



Photo 10 Enclosure protection IP5X. Ø1.0 mm probe could not enter the enclosure and clearance was kept.

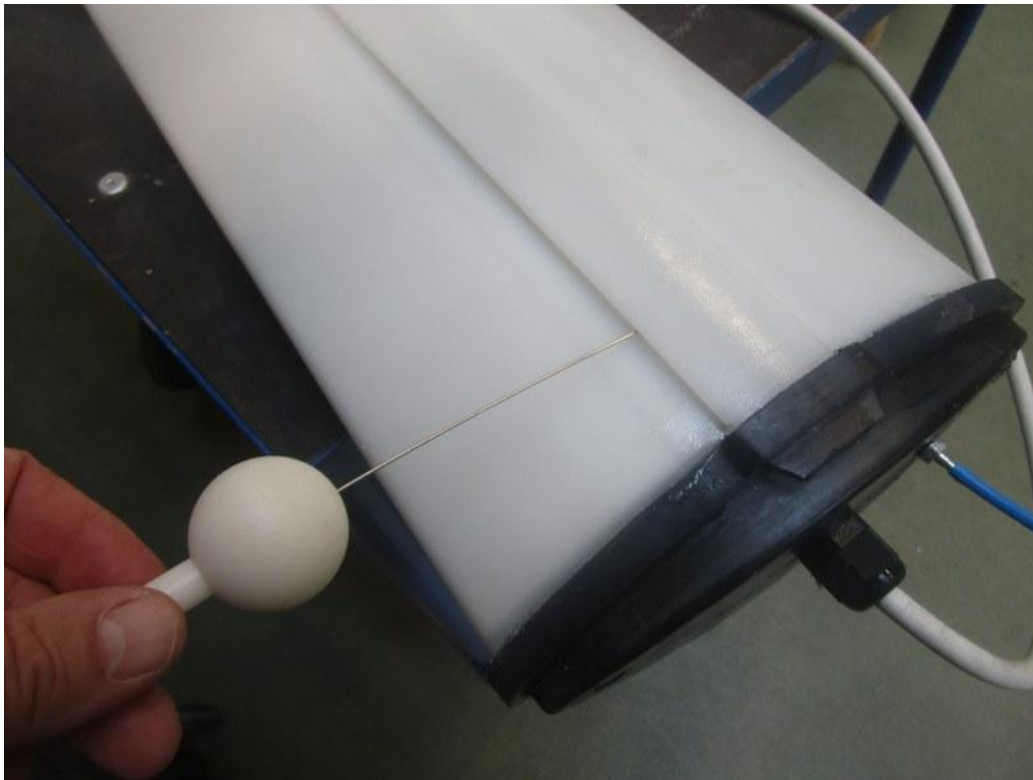


Photo 11 Visual inspection.



Photo 12 Enclosure protection IP5X. Ø1.0 mm probe could not enter the enclosure and clearance was kept.

4.2 Enclosure protection, IPX9

Test specification and Test method

IEC 60529:2013 Degrees of protection provided by enclosures (IP Code)

Severity

IPX9: (Protection against high pressure and temperature water jetting)

Procedure	:	Large enclosure, largest dimension greater than 250 mm
Water pressure	:	Minimum 0.9 – 1.2 N
Water temperature	:	80 °C ±5 °C
Distance from nozzle to object	:	150 - 200 mm
Test duration	:	1 min per m ² , 3 min minimum.

Procedure

The test object is de-energised during the exposure.

The test object is subjected to the high-pressure jets for the specified duration from all practical directions.

After the test, the test object is wiped off on all external surfaces, and an internal visual inspection is performed.

Acceptance condition for second characteristic number 9

In general, if any water has entered, it shall not be sufficient to interfere with the correct operation of the equipment or impair safety.

Results

The test was performed as specified. The visual inspection showed ingress of water inside the enclosure.



Photo 13 Before exposure, IPX9.



Photo 14 During exposure, IPX9.



Photo 15 During exposure, IPX9.



Photo 16 During exposure, IPX9.



Photo 17 Visual inspection. Water observed behind the end cap. Not visible at photo.



Photo 18 Visual inspection. Water observed behind the end cap. Not visible at photo.

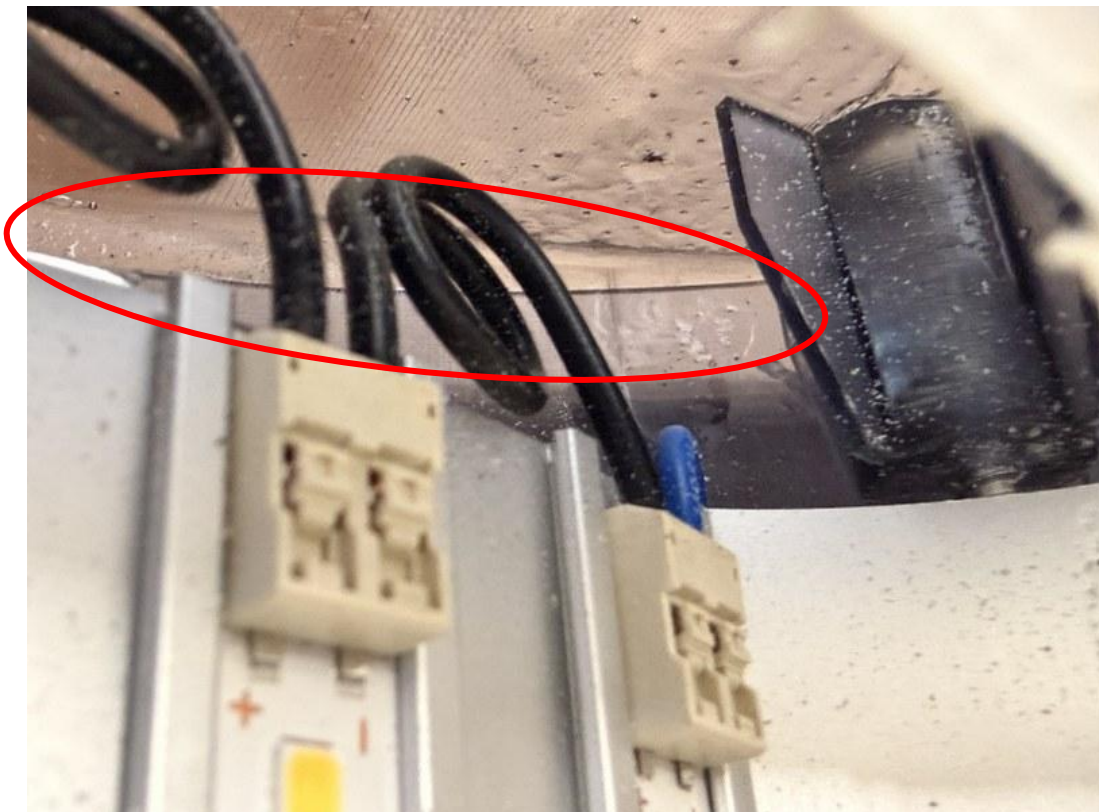


Photo 19 Visual inspection. Closeup photo at end cap. Water observed.

APPENDIX

Appendix 1 List of instruments

NO.	DESCRIPTION	MANUFACTURER	TYPE NO.
IP6X test:			
EVFGT-49	IP-Dust chamber	Weiss	ST20000
43239	IP Probe test kit	ED&D	A,B,C,D,E,F,G
43298	Leakage tester	Wöhler	LT 600
IPX9 test:			
EVFGT-34	Wet Room	DELTA	IP Water
43367	Tape Measure	Stanley	5m / 300-696
43280	Flow Instrument	Eberhardt/IOSIL	MS 501-T20-1A1A1A
43371	Spray nozzle	Delta	IPX9
43299	Thermometer	Elma	711
43344	Stopwatch	RS	RS PRO
43327	Humidity Logger	Elma	DT-172

Appendix 2 Statement from Client
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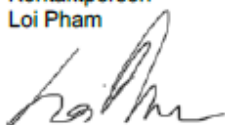
STATEMENT OF WATER INGRESS

The water-sensitive components of the product are the PCB-mounted connectors. However, as only a negligible amount of water has entered, this will not affect the operation or safety of the product. As a further preventive measure, two additional rubber gaskets will be fitted at the connector interface.

Best Regards,

SSE A/S

Kontaktperson
Loi Pham



Email: info@ecofoss.dk
WWW: www.ecofoss.dk
Address: Mariendalsvej 28 - 8800 Viborg DK