

Manual

Installation Manual for Benarx Epoxy Box

Installation Manual for Benarx Epoxy Box

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0.1	21.03.2018	Thomas P. Hansen	Document prepared.
0.2	04.04.2018	O V Moldesæther	Added Scope of Work section
1.0	18.09.2019	STIOYE	Republished
2.0	19.10.2021	BN / TU	Added manhole description, installation sequence and optional sealant

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1 Introduction

1.1 Field of application

The purpose of this document is to give instructions how to install Benarx Epoxy Boxes in accordance with the manufacturers, Beerenberg, guidelines. These are the generic procedures and there might be specific requirements/details in relevant Purchase Orders which will require qualification of this manual.

Qualification of the installation manual for operational use shall be executed by Beerenberg Technology & Development department.

Special attention shall be directed towards section 3.2 Risk Assessment, especially Hazard description/Failure mode and their mitigating actions. Its important to understand the purpose of these mitigating actions and why they are included in the installation procedure.

1.2 Installation manual changes

Only Technology & Development Department by Benarx Solutions AS is entitled to make changes to this document. For this manual the following assembly models have been used:

- 2001569
- 100276
- 100722

1.3 Installation responsible

To install a Benarx Epoxy it is expected that worker have the necessary skills and training. Every person performing modification work is responsible for maintaining the box' integrity on his/her own reputation and risk.

1.4 Definitions and abbreviations

PFP – Passive Fire Protection

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1.5 Start-up check

Product check:

Make a visual check before start up and verify that there are no damages or cracks on the product. Verify that all eccentric locks are fully intact and that all the parts of the Benarx Epoxy Box are present. Make sure there are tag numbers for all the parts of the box and verify that the tag number match the equipment to be insulated. Make sure that correct tools and materials are on site before installation starts.

If any damages are detected, Beerenberg is to be contacted for information on how to correctly proceed. All repair work shall be approved by Beerenberg before initiation.

Equipment check:

Make a visual check of the flange or valve and ensure that the equipment is prepared for and ready for the installation of the Benarx Epoxy Box. If there are any kind of equipment damages like loose bolts, unfastened heat tracing or similar, these issues must be solved first.

1.6 Modification work

If any modification of Benarx Epoxy Box is required, guidelines for this work is given in Modification Procedure for Benarx Epoxy Box (document number TECH-MA21-00569).

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2 Tools, Materials and Protective Equipment

The following tools, materials and equipment is recommended for installation of Benarx Epoxy Box.

2.1 Tools

Item no.	Item
1	Hammer (rubber-head)
2	Hammer
3	Vice grip (pliers)
4	Drill
5	Marker pen (type Pilot)
6	Metric measure (3 m)
7	Knife (type Mora)
8	Sheet metal shears (right hand)
9	Jig saw
10	Caulking gun
11	Inch ruler (2 m)
12	Bit set
13	Allen key set
14	Pop tong (manual TT55)
15	Pop plier (machine)
16	Hole saw 22mm (for drain plug)
17	Stanley knife
18	Compass
19	Protractor

2.2 Materials

Item no.	Item
1	Pop rivets, A4/A4 16x4.8mm (stainless steel, quality A4)
2	Pop rivets, A4/A4 8x3.2mm (stainless steel, quality A4)
3	Locking pins for eccentric locks (stainless steel, quality A4)
4	Drill bits, Ø 3.3mm (type Dormer)
5	Drill bits, Ø 4.9mm (type Dormer)
6	Nitoseal SC N (white colour)
7	ROKU Strip 1.5 x 20mm (roll à 25 metres)
8	Fire tested and approved drain plug / Benarx Drain Plug (stainless steel, quality A4)
9	Jig saw blade (Bosch T 123X, 14 TPI)

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2.3 Protective equipment

Item no.	Item
1	Dust mask (P2 filter) Only required for chip forming processes
2	Gloves (cut secure)
3	Safety overall
4	Safety eye wear
5	Safety shoes
6	Helmet
7	Nitrile gloves, (disposable one-time-use)

Note: Protective equipment shall be used in accordance with applicable health, safety and environmental requirements specified for the work place.

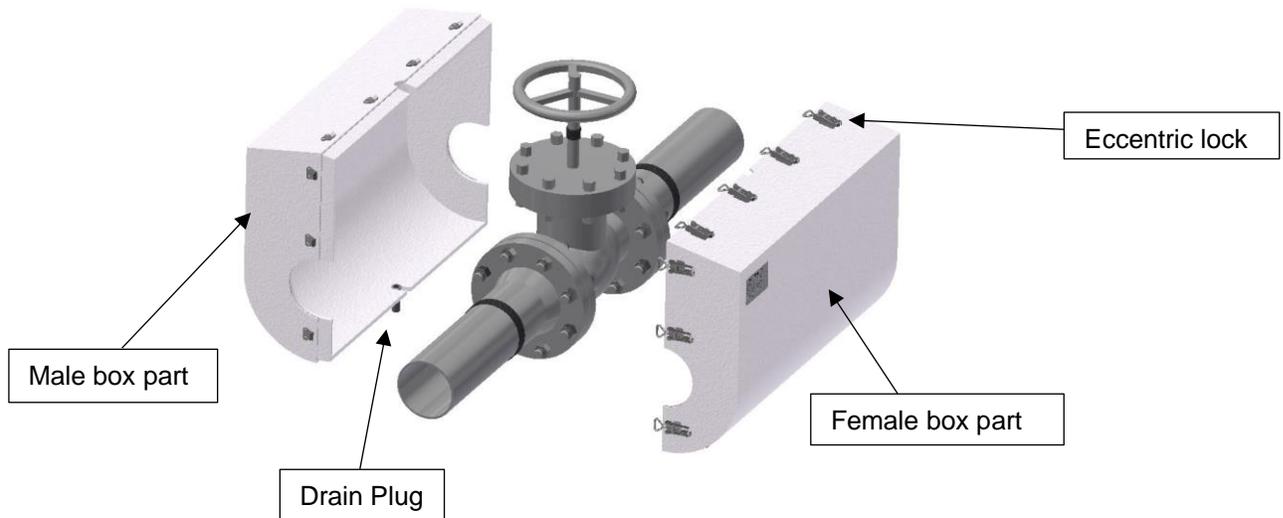
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3 Scope of work

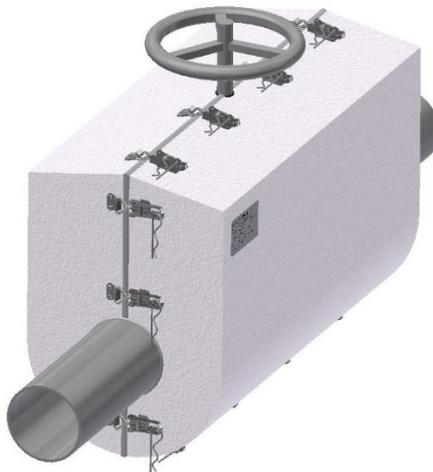
3.1 Overview

The scope of work included in this installation manual is as illustrated below.

Before installation:



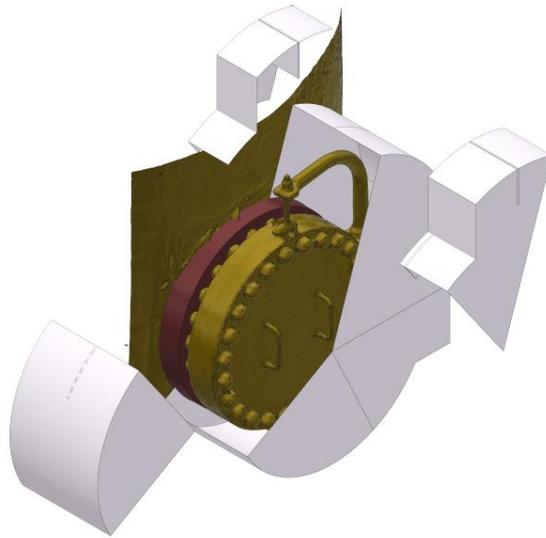
After successful installation:



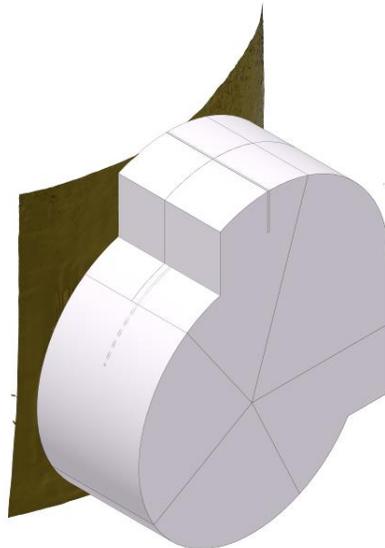
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3.2 Benarx Epoxy Box on manway

Parts partially installed



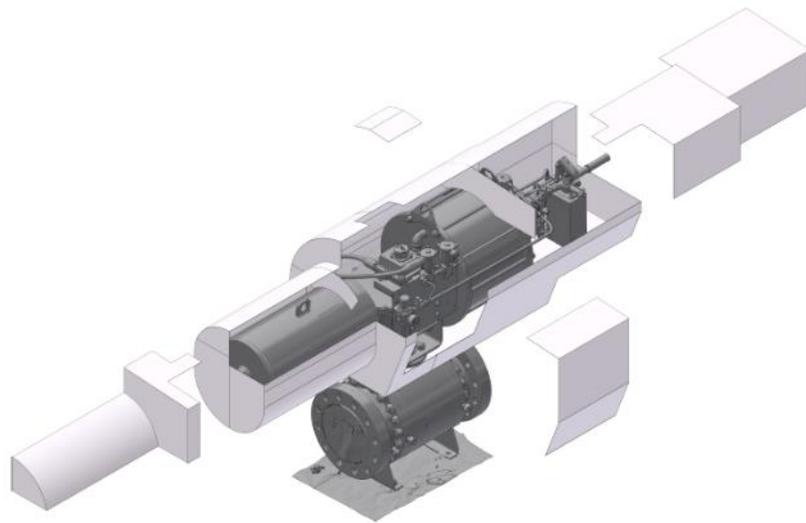
Parts installed



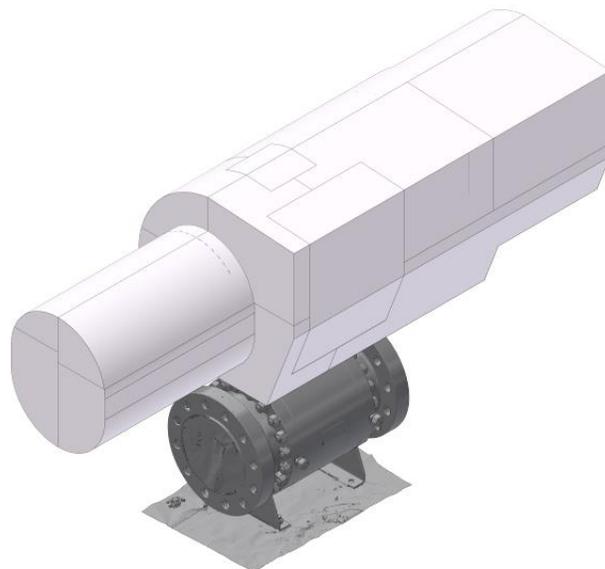
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3.3 Installation of Benarx Epoxy Box on actuator

Parts partially installed



Parts installed



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3.4 Risk assessment

The following risk-evaluation and list of mitigating actions have been carried out as a basis for the installation steps described in this procedure. Its therefore important to pay special attention to these risk-mitigating steps, to understand the purpose of the mitigating-steps described in the manual.

Consequence is defined as 1 (small) to 5 (extreme)

Probability is defined as 1 (not likely) to 5 (very likely)

Risk is defined as the product of Consequence and Probability ranging from 5 to 25.

Acceptance criterion is Risk less than or equal to 5.

Risk assessment							
Product		Benarx Epoxy Box					
Main function		Fire protection of process equipment and similar, mainly valves and flanges by creating a thermal barrier during fire					
Item	Hazard description/Failure mode	Consequence	Probability	Risk	Mitigating action	Section ref	Updated risk
1.0	Technical hazards						
1.1a	Loss of thermal barrier	4 - very high	2	8	Ensuring a tight fit	4.1	4
1.1b		4 - very high	2	8	Apply fire gasket at cut-outs	4.4	4
1.2	CUI	3 - high	3	9	Install drainage	4.5	3
1.3	Water ingress (proper drain provided)	1 - low	5	5	Sealing of joints for water ingress	4.7	2
1.4	Unwanted dismantling during explosion or general operation	4 - very high	2	8	Proper adjusting of eccentric locks and Installation of safety pins	4.8 & 4.9	4
2.0	HSE hazards						
2.1a	Dust inhalation during cutting			Unacceptable	Dust mask to be used during cutting	4.1	Acceptable
2.1b	Inhalation of hazardous fumes during cutting			Unacceptable	Always use fresh jig saw blades to prevent unwanted temperature rise and smoke release		Acceptable
2.2a	Falling objects			Unacceptable	Objects shall always be secured to prevent them from falling	All	Acceptable
2.2b				Unacceptable	Hard hats shall be used at all times	All	Acceptable
2.3	Cuts			Unacceptable	Gloves shall be used during all installation work	All	Acceptable
Comments:		The result from item 1.3 states that the hazard from water ingress is acceptable provided that proper drain is installed. Thus, sealing of joints is optional as an additional barrier.					

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4 Installation description illustrated

In this chapter the installation process is described step by step.

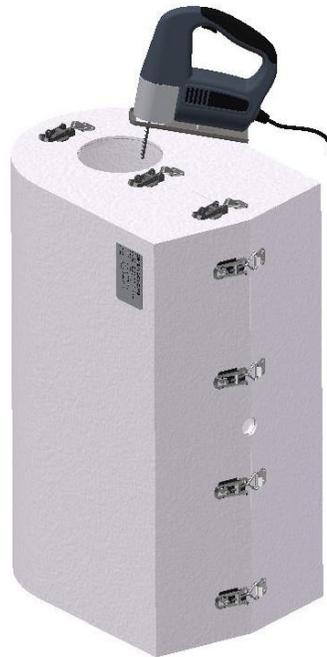
4.1 Making cut-outs in Epoxy Box

1.

Make cut-outs by using a jig saw.

Note:

- Add appropriate allowance for fire gasket.
- Always use fresh jig saw blades. Worn blades will generate unwanted temperature rise and smoke release due to friction.



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4.2 Pre-installation of Epoxy Box

1.

Pre-install the fire box to ensure that it fits.

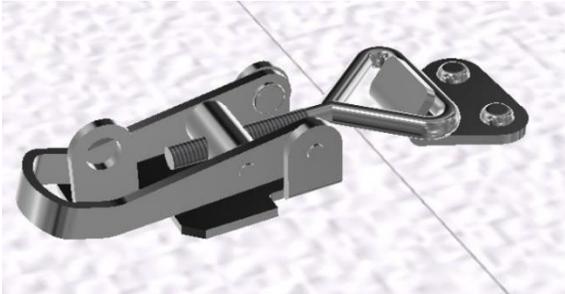
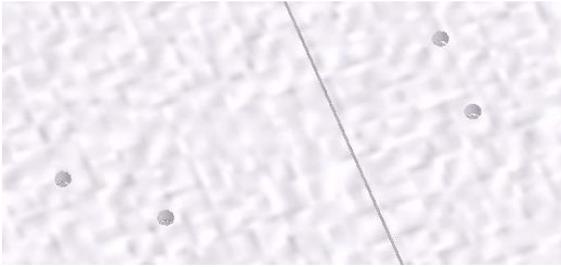
Note:

- Make sure no sharp edges is present in cut-outs, to prevent damage to any underlaying painted surface.



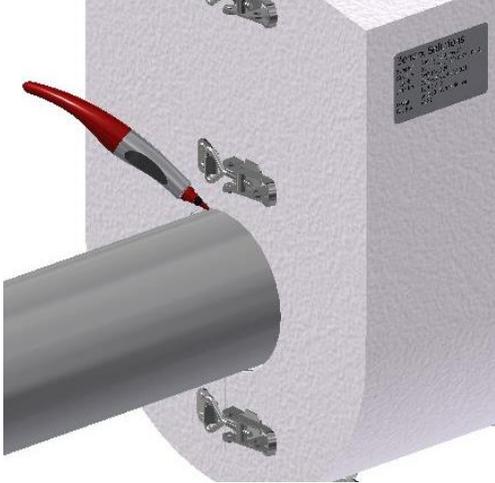
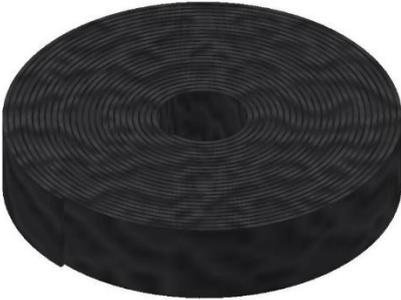
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4.3 Removal of adjustable eccentric lock

<p>1.</p> <p>If adjustable eccentric lock must be removed due to obstructions, drill out the pop rivets attached to the two locks parts (hook and loop).</p>	
<p>2.</p> <p>Drill out pop rivets, leaving open holes.</p> <p>Apply Nitoseal SC N (white colour) in all holes.</p>	
<p>3.</p> <p>Install pop rivets in all open holes.</p> <p><u>Note:</u></p> <ul style="list-style-type: none"> • Use pop rivets with same diameter as original. • Length of new pop rivets shall as minimum be 15mm more than the insulation thickness, to ensure proper anchoring. 	

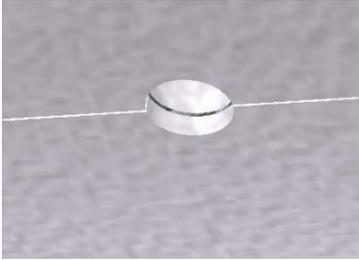
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4.4 Application of fire gasket

<p>1.</p> <p>Mark up the box' landing places, by using a marker pen, and thereafter apply RUKO Strip fire gasket where indicated by the marker pen.</p> <p>If the box does not fit – see Modification Procedure for Benarx Epoxy Box.</p> <p><u>Note:</u></p> <ul style="list-style-type: none"> It is of importance that the ROKU Strip is placed in between the fire box and the protruding object. 	
<p>2a.</p> <p>The purpose with the gasket is to seal gaps between box and protruding objects if fire occur. During a fire, it will expand under the influence of rising temperature and form a fire-sealing char.</p> <p>Only ROKU Strips purchased from James Walker Norge AS will be accepted.</p>	
<p>2b.</p> <p>Quantity of fire gasket: Apply 1 or 2 layers – to close air gap between fire box and pipe entirely.</p>	

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4.5 Install Drainage

<p>1.</p> <p>To prevent water from accumulating inside the box drainage should be provided. Location of drain shall account for box geometry and installation position such that the most efficient drainage is provided.</p> <p>Only fire tested drain plugs are approved for use (Benarx Drain Plug or similar).</p>	
<p>2.</p> <p>Drill a hole in the bottom of Epoxy Box by using a 22 mm hole saw.</p>	

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3.

Apply Nitoseal SC N (white colour) between drain plug and box drain hole.



4.

Install drain plug and tighten nut by hand as shown on picture.

The sealant shall then be pushed out through trough openings.

This will ensure proper locking of washers and prevent water ingress between drain hole and drain plug.

Notes:

Threaded cylinder shall protrude as little as possible (maximum 5mm) into the box to allow for effective water drainage.



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5.

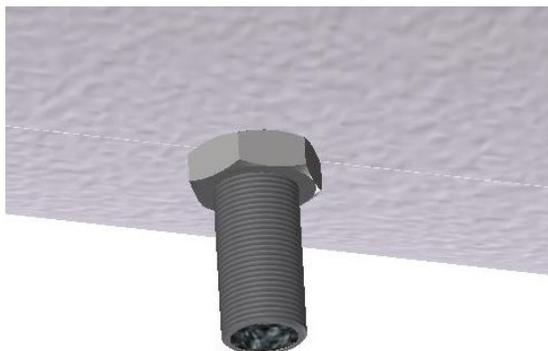
Tighten the outside nut by using a wrench until a firm grip is obtained.

Be careful not to overtightening the nut, resulting in cracks in surface protection and PFP.

Smooth out excess sealant, ensuring no sealant is covering the drain hole.

Notes:

Number of drainage holes will depend on the box size: 1 to 5 holes is sufficient.



6.

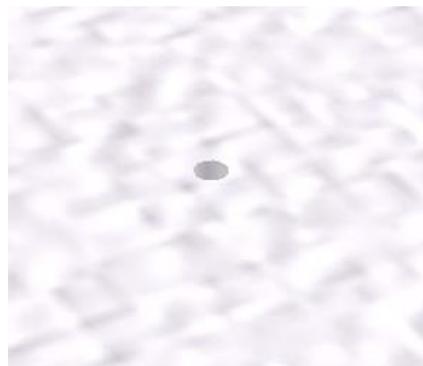
Alternative drainage solution:

Drill a hole in the bottom of box by using a 3,3 mm drill bit.

Notes:

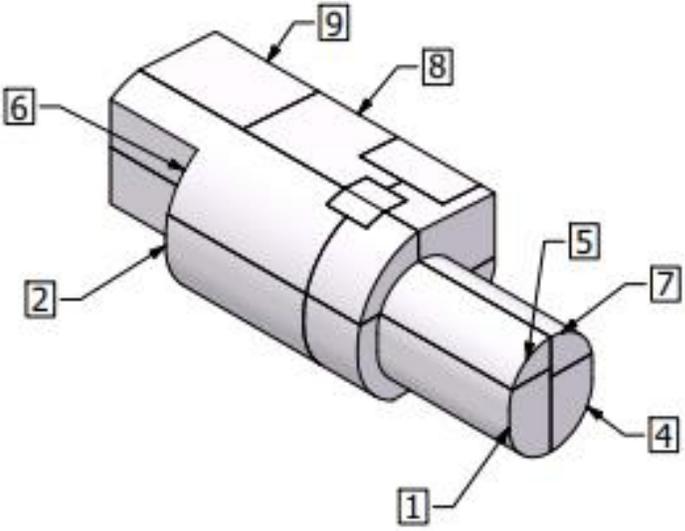
Number of drainage holes will depend on the box size: 1 to 5 holes is sufficient.

Larger drain holes than Ø3,4 mm is not allowed.



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4.6 Epoxy Box installation

<p>1a.</p> <p>Installation should in general start with the male part.</p> <p>Note: For boxes requiring special installation sequence, this will be described in the boxes' accompanying documentation.</p>	
<p>1b.</p> <p>Example of specific installation sequence.</p>	

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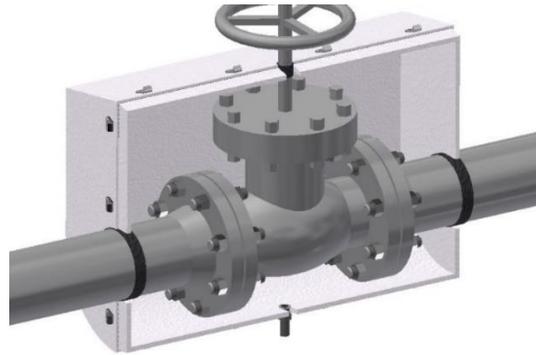
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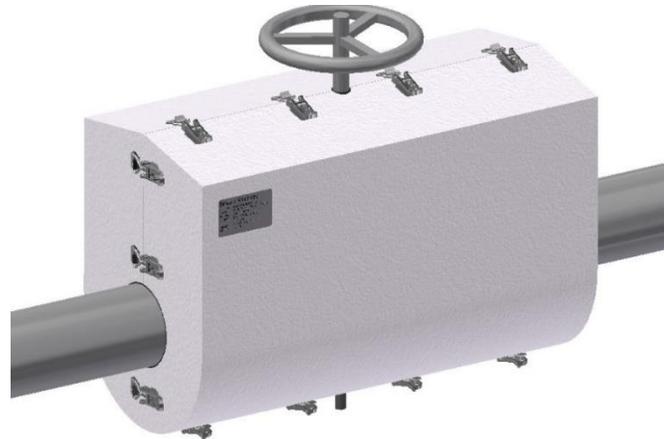
Install box part (1 of 2).

Ensure cut-outs are placed firmly on
top of the gaskets.

3.

Install box part (2 of 2).

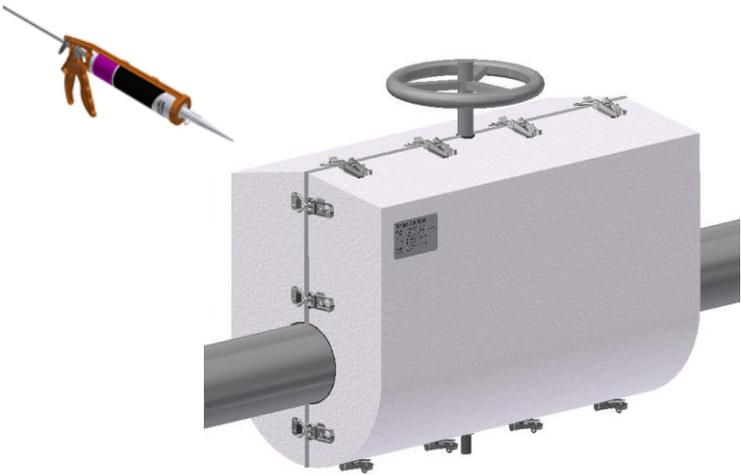
Installed box.

Box landing on ROKU Strip is now
ready for application of silicone
sealant around all cut outs and
overlapping box parts.**NOTE:****For boxes where sealing is not
applicable it is still a requirement to
apply sealant on all cut outs.**

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4.7 Sealing of joints (IF APPLICABLE)

4.7.1 Alternativ 1: Standard sealant (Nitoseal SC N)

<p>1.</p> <p>In order to ensure that the Benarx Epoxy Box provides a water tight barrier, all joints and cut-outs shall be sealed with sealat</p> <p>Note: Sealant should be applied before completely tightening the locks to allow the sealant to get in between the outer joints</p>	
<p>2.</p> <p>Silicone sealant Nitoseal SC N (white colour) can be used to prevent water and moisture intrusion.</p> <p>Silicone sealant shall be applied around all cut outs and overlapping box parts.</p> <p>Notes: This type of silicone sealant is the only accepted by Benarx Epoxy Box for use. Temperature range is -40°C to +150°C (after curing).</p>	

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2a.

Application of sealant in outer joints.
(Sealant indicated with red color)

The outer joint should be filled with
sealant to achieve a water-tight
system.



2b.

Incorrect application of sealant.
(Sealant indicated with red color)

This will cause the Epoxy Box to be
impossible to disassemble!

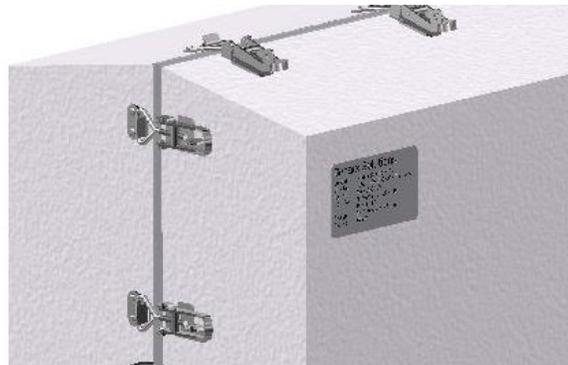


3.

Smoothen the sealant to a nice finish
by using a plastic sealant card or
equivalent.

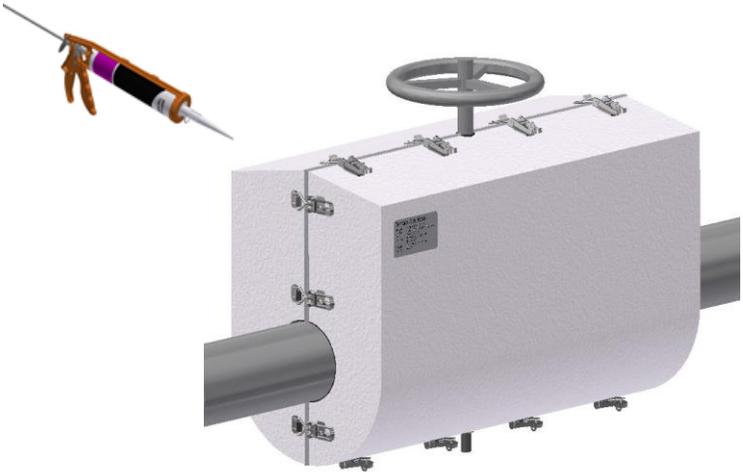
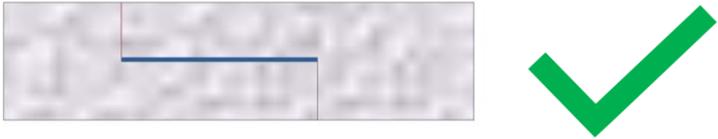
Notes:

The only type of silicone sealant
approved for Benarx Epoxy Box is
Nitoseal SC N.



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4.7.2 Alternativ 2: Cold Spil sealant

<p>1.</p> <p>Cryogenic spill sealant: 95-50 Foster Flextra Sealant. The purpose of this sealant is to remain flexible at cryogenic temperatures (down to -164°C), this is to protect the fire insulation from ingress in the case of accidental LNG spills and to prevent the underlying coated steel structure from cooling below its brittle transition temperature.</p>	
<p>2.</p> <p>Foster Flextra Sealant (white colour). Temperature range is -163°C to + 93°C (after curing) can be used to prevent water and moisture intrusion.</p> <p>Sealant shall be applied around all overlapping box parts.</p>	
<p>2a.</p> <p>Application of sealant in outer joints. (Sealant indicated with blue color)</p>	

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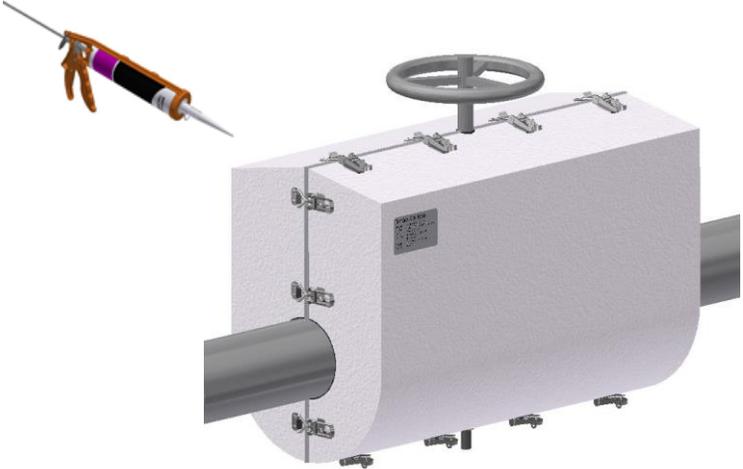
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2b.

Incorrect application of sealant.
(Sealant indicated with red color)

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4.7.3 Alternativ 2: Combined solution for sealant

<p>1.</p> <p>In order to ensure that the Benarx Epoxy Box provides a water tight barrier, all joints and cut-outs shall be sealed with sealant and to prevent liquid cryogenic spillage to enter between joints during a cryogenic spill scenario.</p> <p>Note: Sealant should be applied before completely tightening the locks to allow the sealant to get in between the outer joints</p>	
<p>2a.</p> <p>Silicone sealant Nitoseal SC N (white colour) can be used to prevent water and moisture intrusion.</p> <p>Silicone sealant shall be applied around all cut outs and overlapping box parts.</p> <p>Notes: This type of silicone sealant is the only accepted by Benarx Epoxy Box for use. Temperature range is -40°C to +150°C (after curing).</p>	

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2b

Foster Flextra Sealant (white colour). Temperature range is -163°C to + 93°C (after curing) can be used to prevent water and moisture intrusion.

Sealant shall be applied around all overlapping box parts.



3a.

Application of 95-50 Foster Flextra Sealant in joints. (Sealant indicated with blue color)

Application of Nitoseal SC N sealant in joints. (Sealant indicated with red color) applied as an exterior UV protection.

The outer joint should be filled with Nitoseal SC N sealant to achieve a water-tight system.



3b.

Incorrect application of sealant. (Sealant indicated with red color)

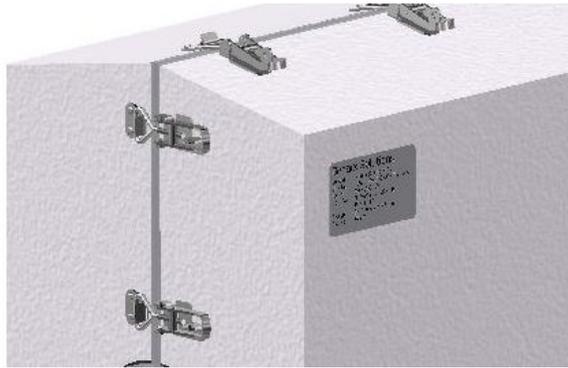
This will cause the Epoxy Box to be impossible to disassemble!



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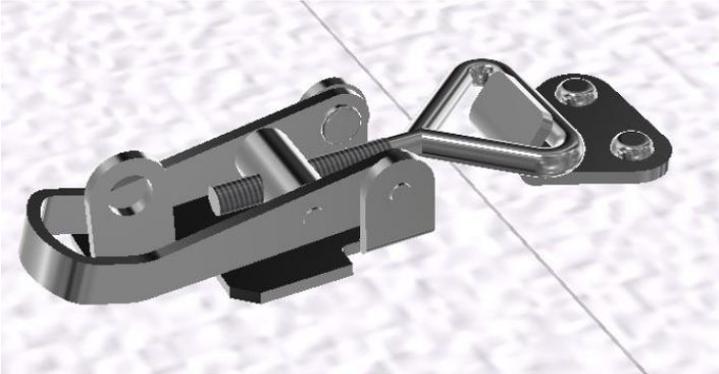
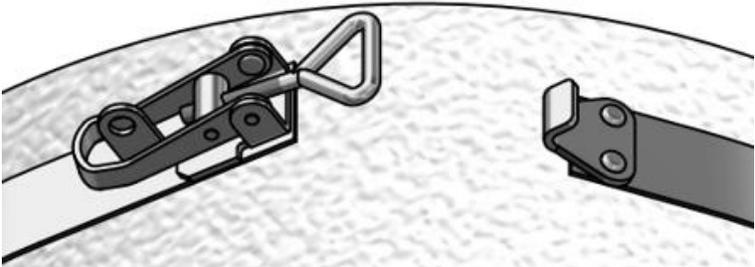
4.

Smoothen the Nitoseal SC N sealant to a nice finish by using a plastic sealant card or equivalent.



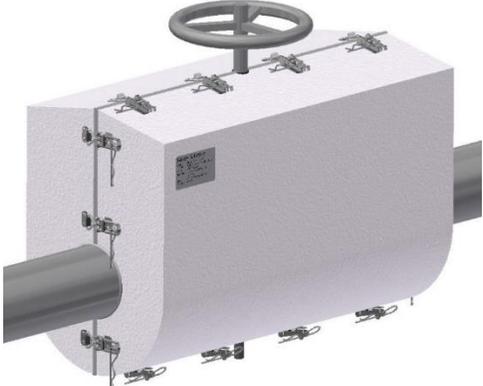
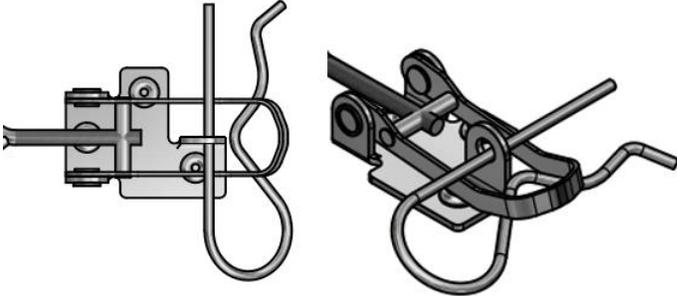
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4.8 Tightening by use of adjustable eccentric locks

<p>1.</p> <p>Tightening of the fire box is performed by using pre-fitted adjustable eccentric locks. The fire box shall be firmly clamped against protruding object(s). The fire box' parts shall fit well towards each other.</p> <p><u>Note:</u> Tighten by turning the loop on its spindle. Show precaution.</p> <ul style="list-style-type: none"> • Avoid using too much force as this can cause PFP damages • Use of impact force for installation is not allowed 	
<p>2.</p> <p>Where lack of <u>space</u>:</p> <p>Tightening band can be wrapped around the box. (The bands can be prefabricated on-site for perfect fit)</p> <p><u>Note:</u></p> <ul style="list-style-type: none"> • To protect the surface coating of the box from the sharp edges on the tightening bands, fiberglass tape shall be used in between. Fiberglass tape shall be fastened to the tightening bands • All rivets shall be flattened on the backside, to avoid damaging the box's surface coating. 	

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4.9 Installing locking pins and tag plate

<p>1.</p> <p>Install locking pins on all locks.</p> <p>Install tag plates on all box parts. Ensure that the correct tag plate is attached to its correct box part.</p> <p>Note: Minimum one tag plate shall be clearly visible from natural access point.</p>	
<p>2.</p> <p>Locking pins shall be installed as shown on the illustration to the right.</p>	
<p>3.</p> <p>Instrument and equipment numbers (tag numbers) shall be attached the fire box. Tag plate is glued to box by use of Nitoseal SC N</p> <p>Note:</p> <ul style="list-style-type: none"> • Check that tag plate is firmly mounted. • Tag shall be clearly visible from access way. • All tags shall be attached to its specific box part. 	<div style="background-color: #cccccc; padding: 10px;"> <p>Benarx Solutions</p> <p>Supplier Benarx Solutions AS Line No. 0150-ZPV-13-0333-KA2-03-A Tag No. WG-13-0229 Item No. OSD-WG-13-0229-001 Part 1 of 2 Design Jet 350 KW/m² 60 min Fab No. 67951</p> </div>