



nVent RAYCHEM E-100-L-E End Seal with Indicator Light Instructions

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nVent RAYCHEM E-100-L-E End Seal with Indicator Light



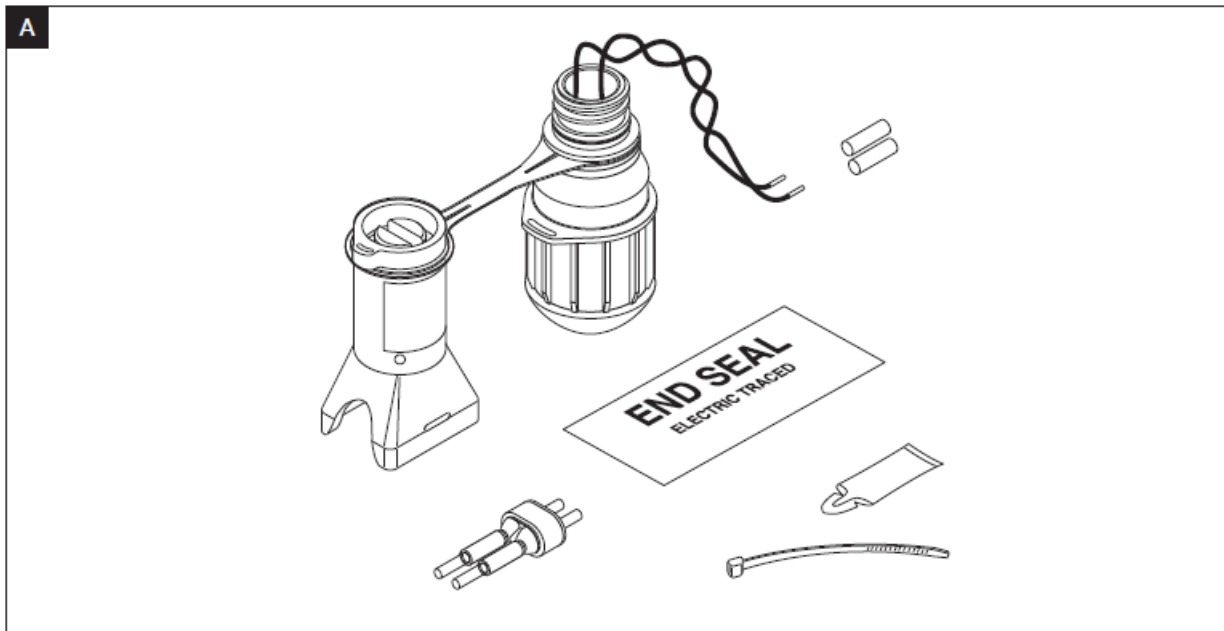
Product Information

The E-100-L-E is an end seal kit designed for use with all nVent RAYCHEM BTV, QTVR, XTV(R), KTV, HTV, and VPL heating cables. It has a rating of II 2 G Ex eb mb IIC T* Gb and is certified by Sira 14ATEX3015X, CSAE 21UKEX3716X, and IECEx SIR14.0007X. The end seal has a rated voltage of 277 V and an IP66 rating. It is suitable for use in hazardous locations classified as Class I, Div. 2, Groups A,B,C,D; Class II, Div. 1 and 2, Groups E,F,G; and Class III. The maximum surface temperature is directly related to the associated process temperature and heat tracing cable with which it is assembled.

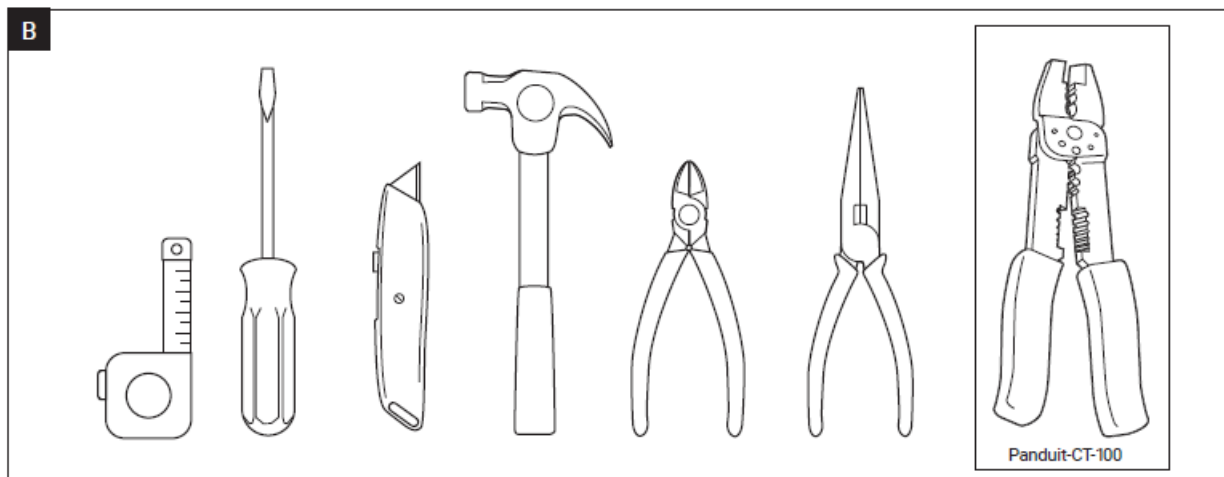
Product Usage Instructions

1. Read the installation instructions completely before installing the product.
2. To prevent electrical shock, short circuit or arcing, the product must be installed correctly and water ingress must be avoided before and during the installation.
3. Avoid skin and eye contact with sealing grease. Consult Material safety data sheet VEN 0033 (INSTALL027).
4. Do not disconnect while the circuit is live or unless the area is free of ignitable concentrations.
5. The user should ensure that the equipment is not installed in a location where it may be subjected to external conditions (such as high-pressure steam) which might cause a build-up of electrostatic charges on non-conducting surfaces.
6. Cleaning of the equipment should be done with a damp cloth that is being used.
7. The supply circuit shall be protected by a fuse capable of withstanding a prospective short current of 1500A.
8. The Lighted End Seals must be pipe mounted in a single orientation, with the gland entry adjacent to the process pipe, as per the manufacturer's installation instructions.
9. Refer to the heating system certificate IECEx PTB 21.0007X; PTB 21 ATEX 1003X (a) for HTV heating cable with E-100-L-E.
10. For the system Temperature Code, see the heating cable or design documentation.

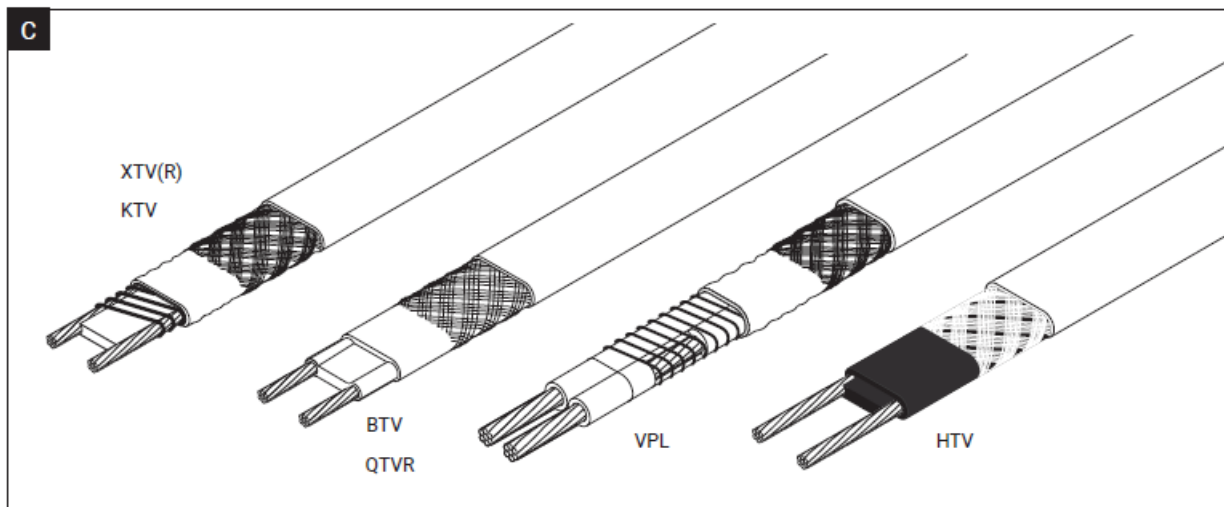
WHAT INBOX



TOOLS REQUIRED



WIRING



E-100-L-E

- Sira 14ATEX3015X

- II 2 D Ex tb IIIC T***°C Db
- II 2 G Ex eb mb IIC T* Gb

• **CSAE 21UKEX3716X**

- IP66
- Ta = -40°C to +40°C

• **IECEX SIR14.0007X**

• **Rated Voltage:** 277 V

- Ex eb mb IIC T* Gb
- Ex tb IIIC T***°C Db

For HTV heating cable with E-100-L-E; refer to heating system certificate IECEX PTB 21.0007X; PTB 21 ATEX 1003X (a)



- RU C-BE.MЮ62.B.00054/18
- Ex e mb IIC Gb U Ex tb mb IIIC Db U
- Ta -55°C...+40°C IP66



1. Ex eb mb IIC T* Gb
2. Ex mb tb IIIC T*°C Db



- Ex eb mb IIC T* Gb
- Ex tb IIIC T*°C Db IP66

• IEx 15.0089X

Hazardous Locations



- Class I, Div. 2, Groups A,B,C,D
- Class II, Div. 1 and 2, Groups E,F,G
- Class III

• Type 4X Temp Code T*



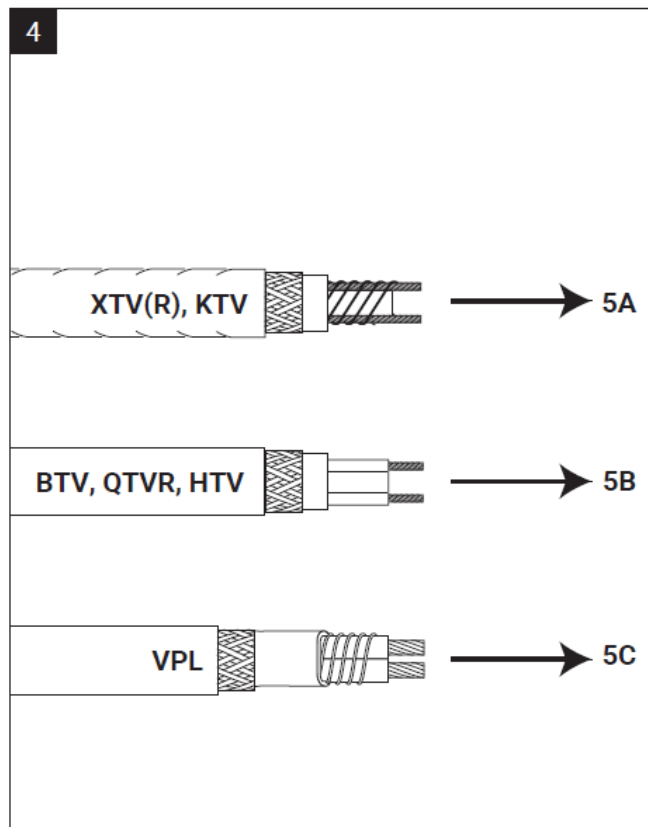
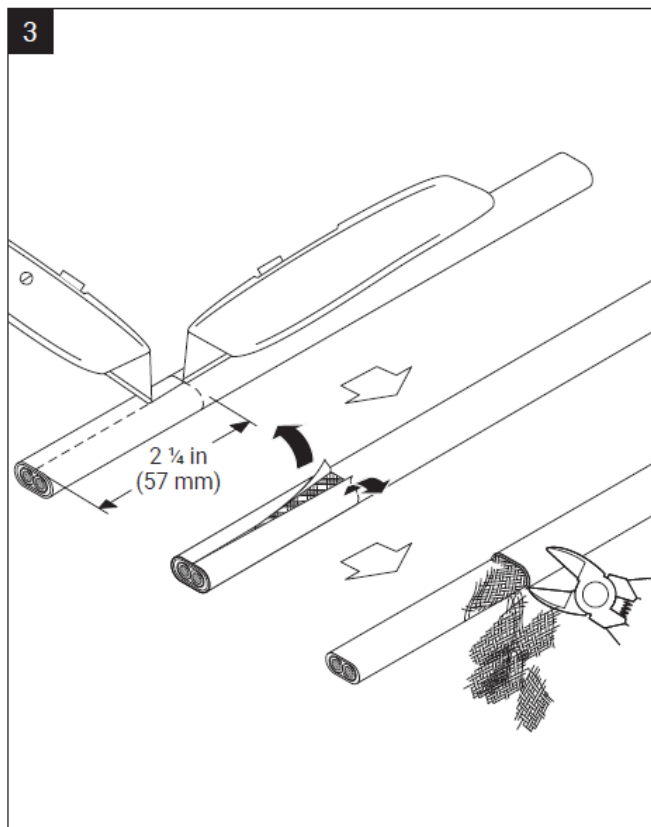
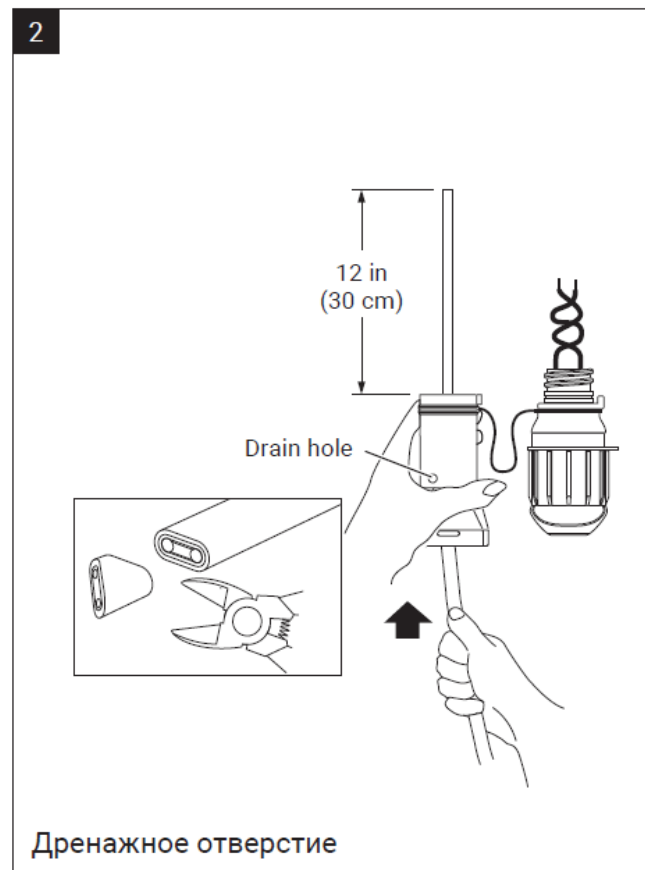
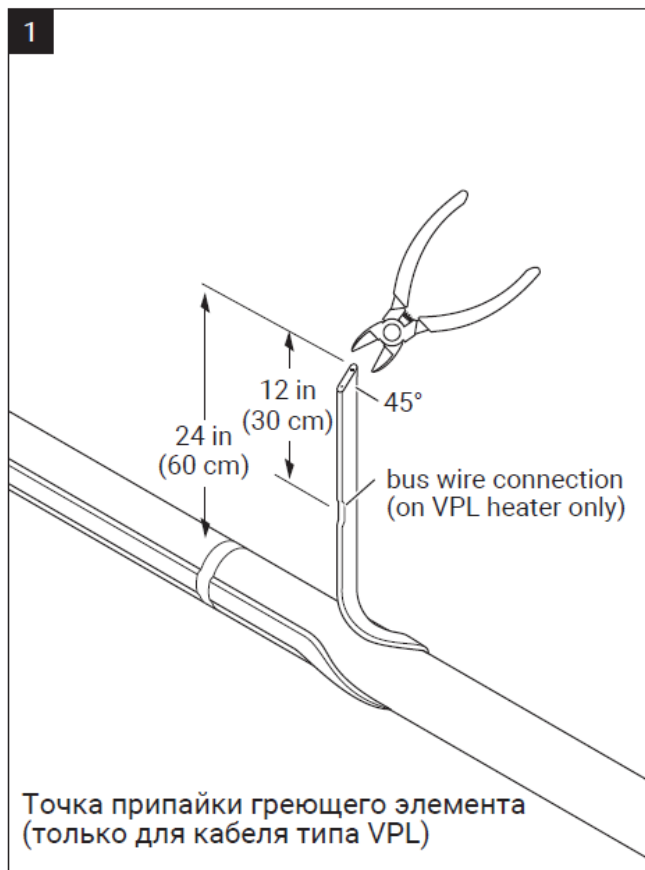
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2. Class I, Div. 2, Groups A,B,C,D
3. Class II, Div. 1 and 2, Groups E,F,G
4. Class III



5. Type 4X Temp Code T*

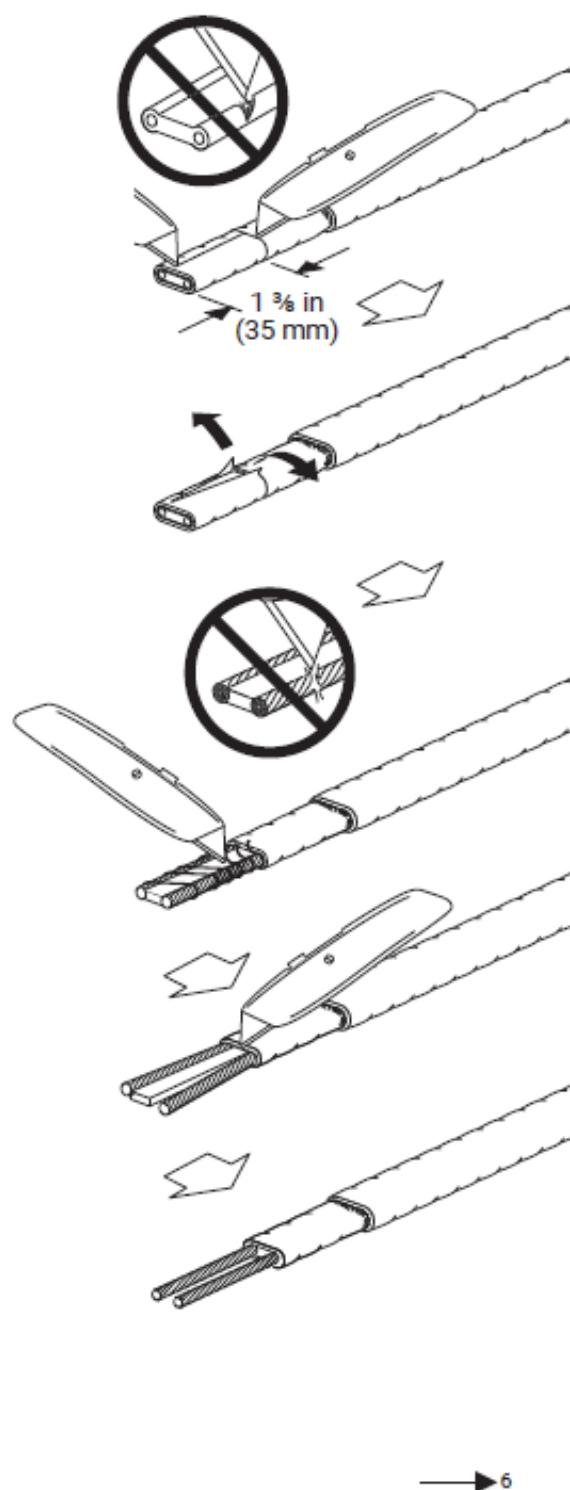
(a) IECEX PTB 21.0007X, PTB 21 ATEX 1003X : Für HTV-Heizkabel mit E-100-L-E / Pour le câble chauffant HTV avec E-100-L-E / Voor HTV-verwarmingskabel met E-100-L-E / For HTV varmekabel med E-100-L-E / För HTV värmekabel med E-100-L-E / For HTV-varmekabel med E-100-L-E / HTV lämpökaapeli yhdessä E-100-L-E loppupäätteen kanssa / Per il cavo scaldante HTV con E-100-L-E / Para el cable calefactor HTV con E-100-L-E / Dla przewodów grzejnych HTV i zestawów zakończeniowych E-100-L-E / Данные о греющем кабеле

ASSEMBLING



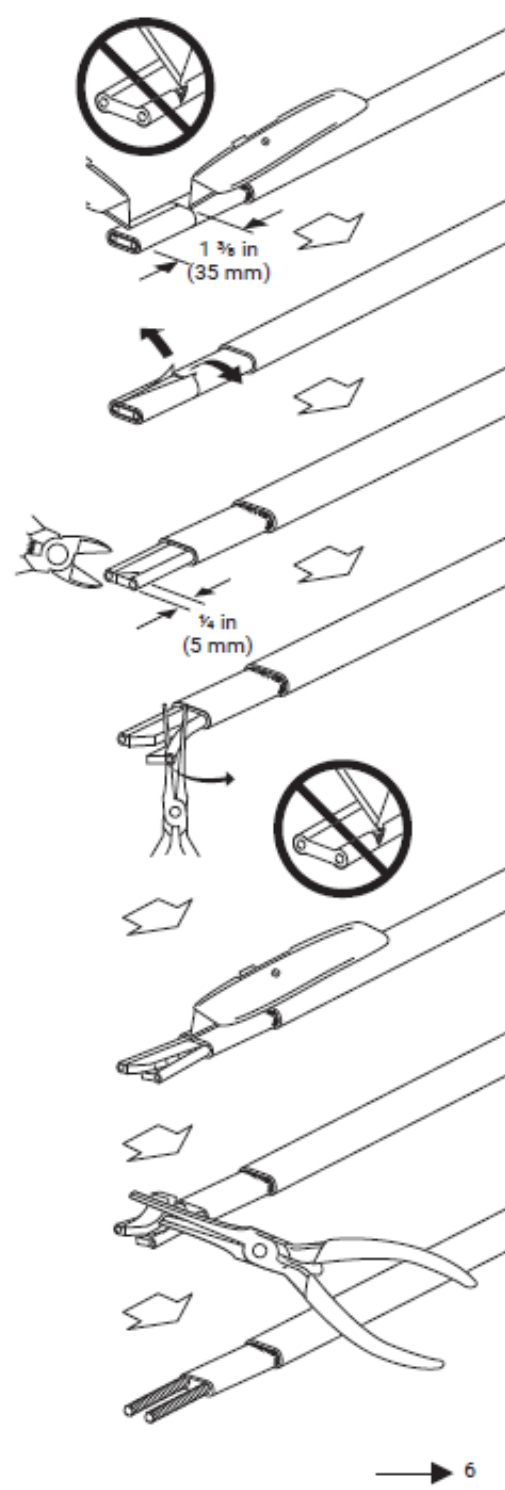
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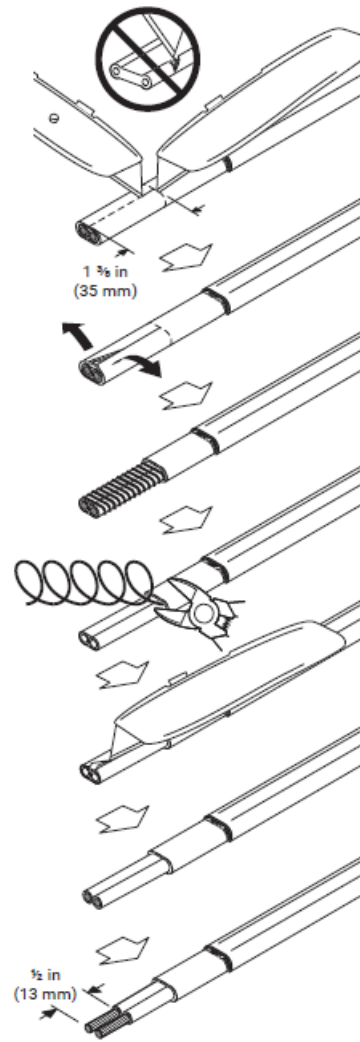
XTV(R), KTV



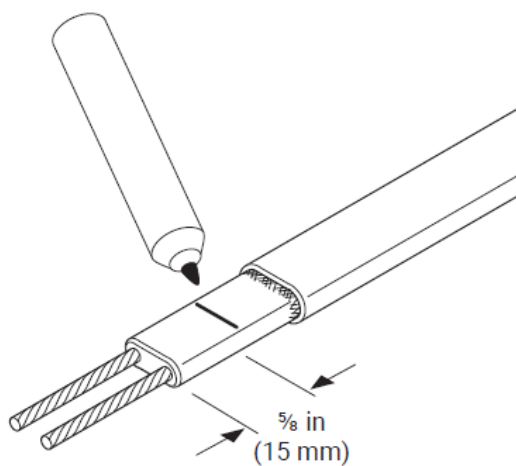
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BTV, QTVR, HTV

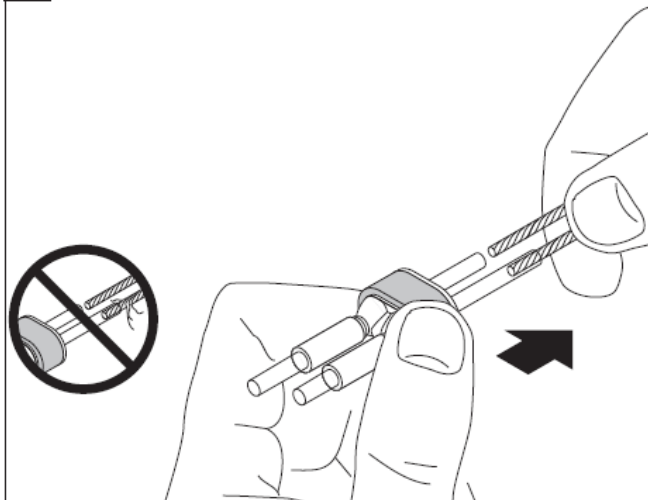




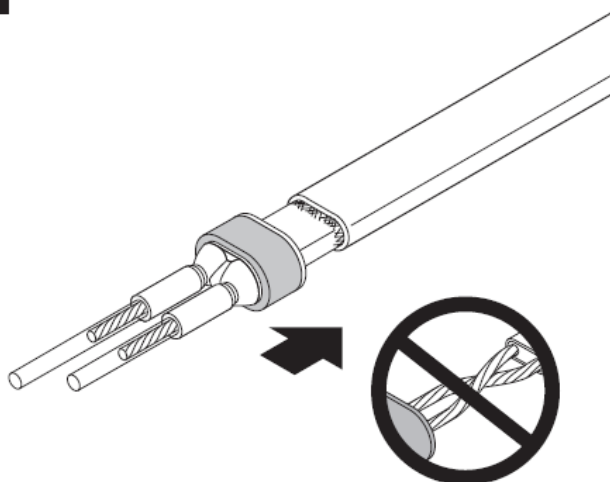
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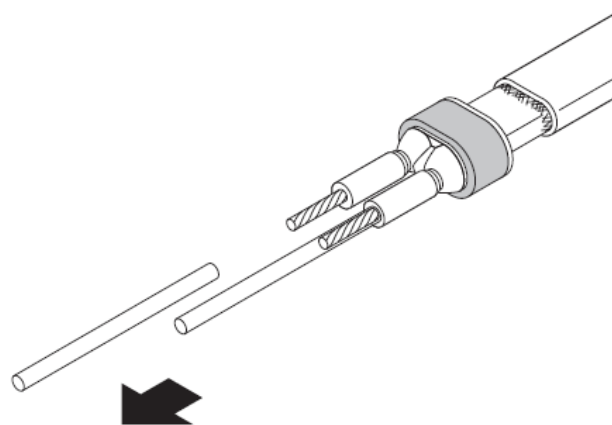
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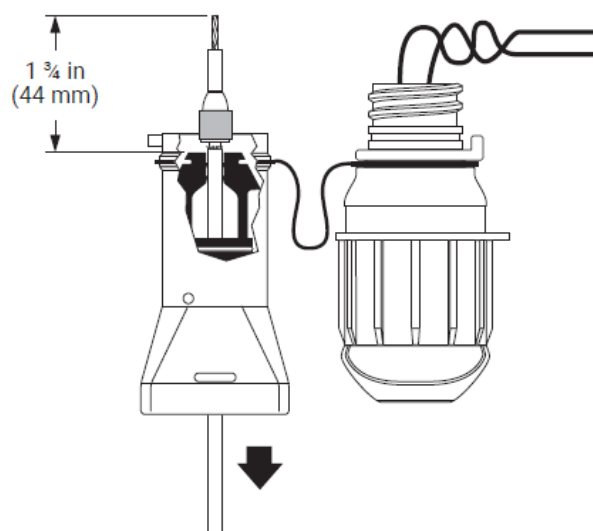
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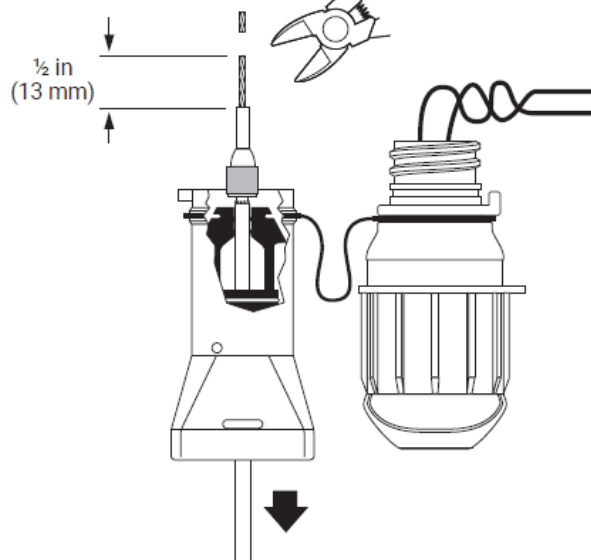
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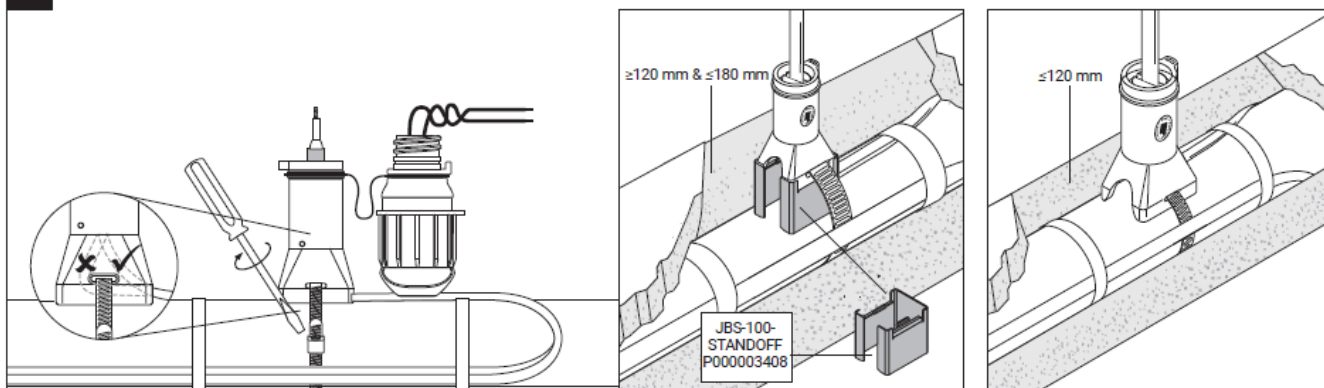
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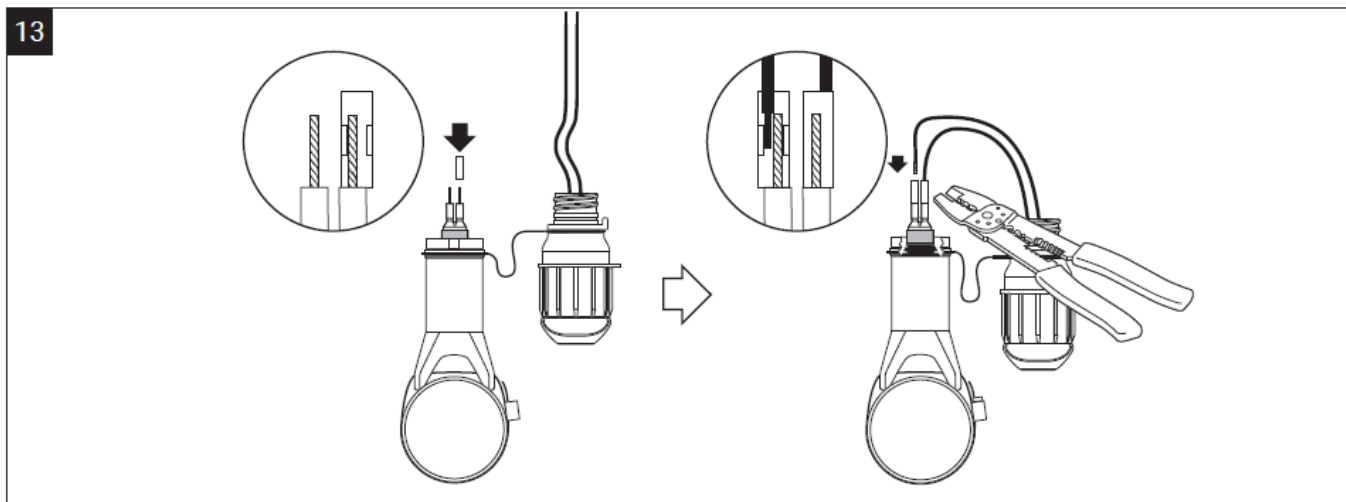
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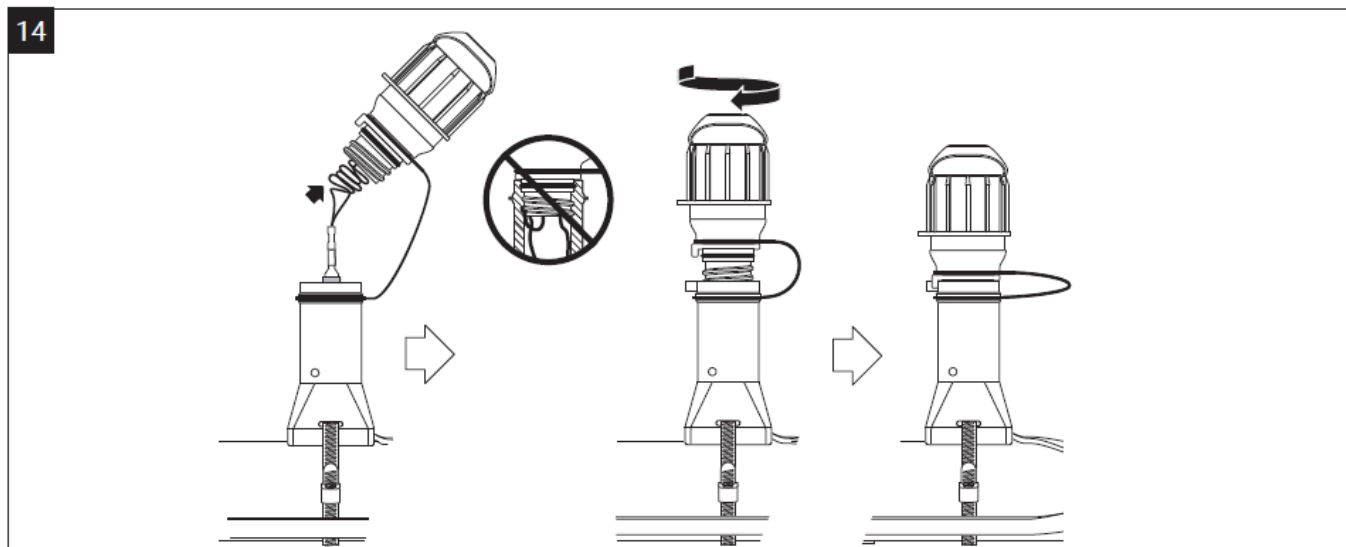
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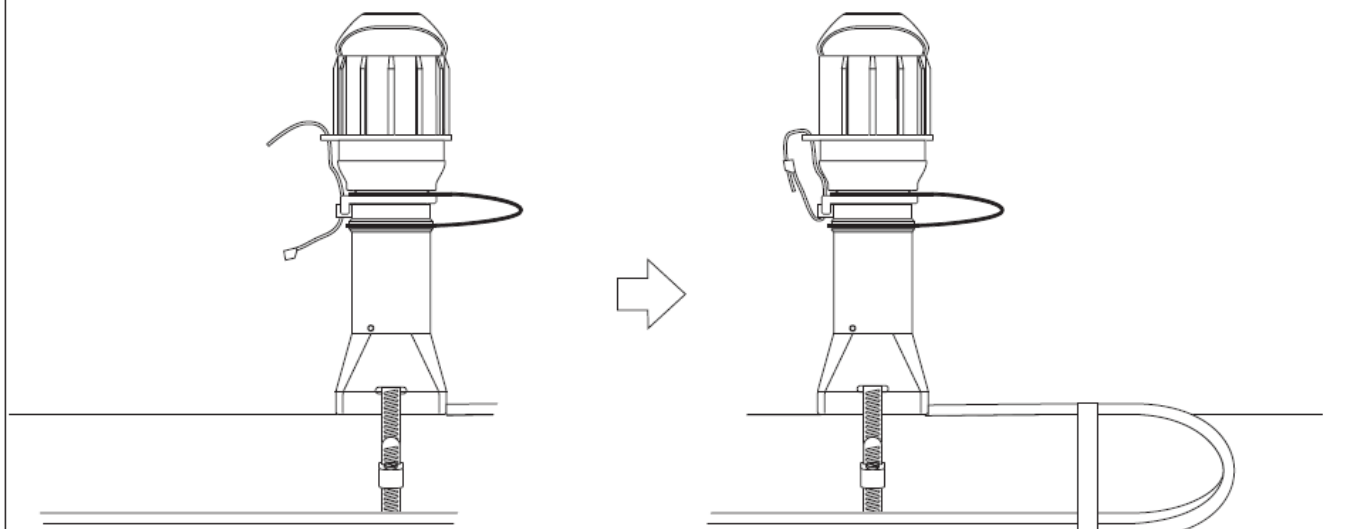
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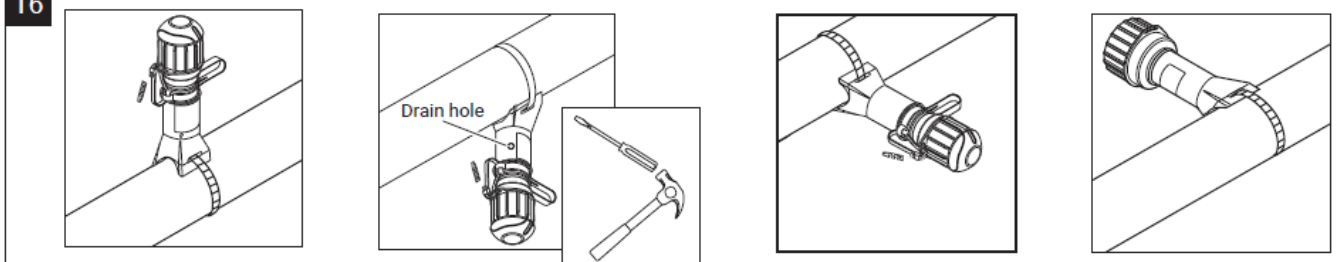
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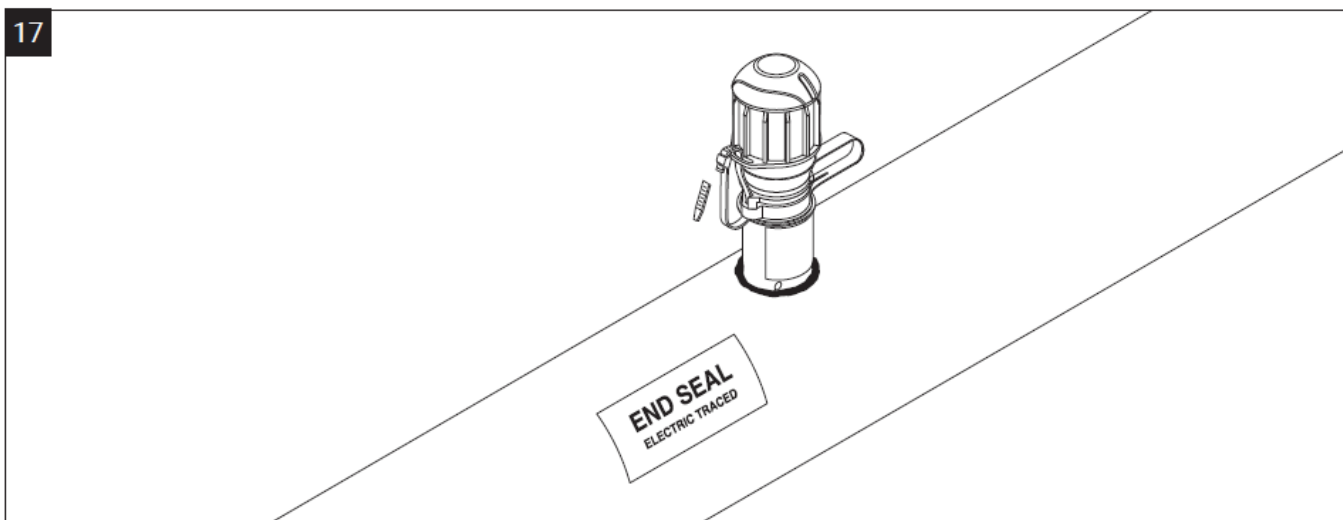
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Hazardous locations

The temperature class/maximum surface temperature is directly related to the associated process temperature and heat tracing cable with which it is assembled, refer to Conditions of Manufacture for the appropriate equipment marking. For system Temperature Code, see heating cable or design documentation.

Behalve

1. HTV
2. KTV

Warning:

- To prevent electrical shock, short circuit or arcing, this product must be installed correctly and water ingress must be avoided before and during the installation.
- Avoid skin and eye contact with sealing grease. Consult Material safety data sheet VEN 0033 (INSTALL027).
- Before installing this product, read the installation instructions completely.

Warning: Explosion and shock hazard.

- Do not disconnect while the circuit is live or unless the area is free of ignitable concentrations

Specific Conditions of Use

1. Some external parts of the system are non-conducting and may generate an ignition-capable level of electrostatic charges under certain extreme conditions. The user should ensure that the equipment is not installed in a location where it may be subjected to external conditions (such as high-pressure steam) which might cause a build-up of electrostatic charges on non-conducting surfaces. Additionally, cleaning of the equipment should be done with a damp cloth
2. The maximum process temperature of the Lighted End Seals is limited to 150°C; this may be further limited by the type of heating cable that is being used. When fitting the Lighted End Seals, the user/installer shall take into account any restrictions that are applicable to the cable
3. The supply circuit shall be protected by a fuse capable of withstanding a prospective short current of 1500A
4. The Lighted End Seals must be pipe mounted in a single orientation, with the gland entry adjacent to the process pipe, as per the manufacturer's installation instructions

Maximum pipe temperature:

Heater type	Tmax continuous	Tmax intermittent 1000h cumulative *	Tmax power off
BTV	65°C	85°C	—
QTVR	110°C	110°C	—
XTV	121°C	250°C	—
XTVR	150°C	250°C	—
KTV	150°C	250°C	—
HTV	205°C	260°C	—
VPL	See tables below	—	250°C

Cable	110 V	Cable	230 V	254 V
5VPL1-CT	235°C	5VPL2-CT	230°C	225°C
10VPL1-CT	215°C	10VPL2-CT	210°C	200°C
15VPL1-CT	190°C	15VPL2-CT	180°C	145°C
20VPL1-CT	150°C	20VPL2-CT	150°C	Not allowed

Ambient Temperature: ATEX/IECEX –40°C to +40°C; EAC: –55°C to +40°C

Installation instructions for nVent RAYCHEM E-100-L-E end seal kit. For use with all nVent RAYCHEM BTV, QTVR, XTV(R), KTV, HTV and VPL heating cables. 2000h XTVR and HTV

Apply end seal label to insulation. Apply insulation and cladding. Weather seal the stand entry.
Leave these instructions with the end user for future reference

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Documents / Resources

	nVent RAYCHEM E-100-L-E End Seal with Indicator Light [pdf] Instructions E-100-L-E, XTV R KTV, BTV VPL, QTVR, Panduit-CT-100 HTV, E-100-L-E End Seal with Indicator Light, E-100-L-E End Seal, End Seal with Indicator Light, Indicator Light, End Seal, Seal
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References

- [🔥 Electrical Heat Tracing | Heat Tracing | nVent RAYCHEM](#)

[Manuals+](#)