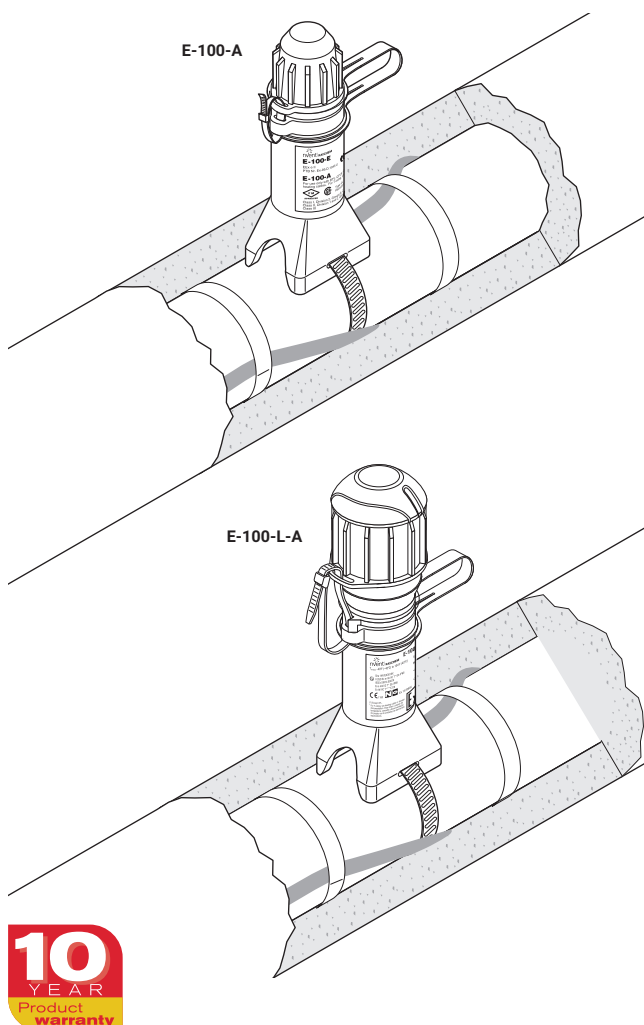


## End seal and lighted end seal kits

### PRODUCT OVERVIEW



The Raychem E-100-A and E-100-L-A serve as above-insulation end seal kits for Raychem brand BTV, QTVR, XTVR, HTV or VPL heating cables. They are approved for use in hazardous locations.

Both the E-100-A and the E-100-L-A are mounted on the pipe and project through the thermal insulation and cladding for ease of maintenance. The E-100-L-A end seal with signal light uses an array of bright LEDs for exceptional visibility and long product life.

These rugged end seals are made from high-performance engineering polymer and resist impact, high temperature, and chemical and UV exposure. The stand allows for up to four inches (100 mm) of thermal insulation. The encapsulated light and boot reliably prevent moisture and dust ingress. The industrial-grade electronics used in the E-100-L-A are encapsulated.

Both the E-100-A and E-100-L-A are re-enterable, allowing easy access for testing. Voltage and continuity checks can be done by simply unscrewing the E-100-A cap and removing the reusable sealing boot. The E-100-L-A makes maintenance even easier by allowing for visual inspection of heating circuit continuity. The light module is replaceable.

The kits contain all the necessary materials for a complete installation except for one pipe strap, which must be ordered separately.



### DESCRIPTION

|  | E-100-A                                 | E-100-L-A   |
|--|---|---|
|  | Above-insulation end seal, cold-applied | Above-insulation end seal with red indicator light, cold-applied<br>*Not for use with 480 V VPL |











### KIT CONTENTS

|  |            |                                     |
|--|------------|-------------------------------------|
|  | 1 end seal | 1 end seal with red indicator light |
|--|------------|-------------------------------------|

**Note:** Order appropriate pipe strap separately (one per kit)

## APPROVALS

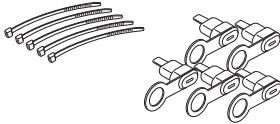
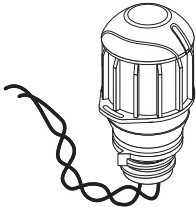
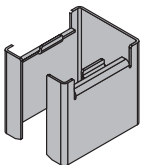
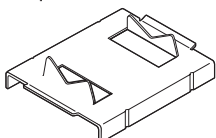
### Hazardous Locations

|  | E-100-A   | E-100-L-A   |
|--|---|---|
|  |   Class I, Div. 2, Groups A, B, C, D<br>Class II, Div. 2, Groups F, G<br>Class III                            |   Class I, Div. 2, Groups A, B, C, D<br>Class II, Div. 2, Groups F, G<br>Class III  |
|  |  Ex eb IIC T* Gb<br>Class I Zone 1 AEx eb IIC T* Gb  |  Ex eb mb IIC T* Gb<br>Class I Zone 1 AEx eb mb IIC T* Gb  |
|  |  Ex eb IIC T* Gb   |  Ex eb mb IIC T* Gb<br>Ex tb IIIC T***°C Db<br>IP66  |
|  | <b>IECEX</b><br>IECEX PTB 09.0038U<br>Ex eb IIC Gb<br>Ex tb IIC Db<br>E-100-A is IECEX certified for use with:<br>BTV-CR/<br>BTV-CT: IECEX BAS 20.0011X<br>QTVR-CT: IECEX BAS 20.0013X<br>XTV-CT: IECEX BAS 20.0012X<br>VPL-CT: IECEX BAS 20.008X<br>HTV-CT: IECEX PTB 21.0007X | <b>IECEX</b><br>IECEX SIR 14.0007X<br>Ex eb mb IIC T* Gb<br>Ex tb IIIC T***°C Db<br>IP66<br>E-100-L-A is IECEX certified for use with:<br>BTV-CR/<br>BTV-CT: IECEX BAS 20.0011X<br>QTVR-CT: IECEX BAS 20.0013X<br>XTV-CT: IECEX BAS 20.0012X<br>VPL-CT: IECEX BAS 20.008X<br>HTV-CT: IECEX PTB 21.0007X |
|  |  Class I Division 2 (Zone 2**), Groups A, B, C, D<br>Class I Zone 2 IIC  |  Class I Division 2 (Zone 2**), Groups A, B, C, D<br>Class I Zone 2 IIC  |
|  | ** For system Temperature Code, see heating cable or design documentation.<br>(1) Except HTV<br>(2) For HTV-CT only<br>** Per CE Code Table 18.   | ** For system Temperature Code, see heating cable or design documentation.<br>(1) Except HTV<br>(2) For HTV-CT only<br>** Per CE Code Table 18.   |

## PRODUCT SPECIFICATIONS

|                                  | E-100-A  | E-100-L-A  |
|----------------------------------|--|--|
| Heating cable capability         | BTV-CR, BTV-CT, QTVR-CT, XTVR-CT, HTV-CT and VPL-CT                |  |
| Ingress protection               | NEMA 4X (IP66)   | NEMA 4X (IP66)                                   |
| Minimum installation temperature | -67°F (-55°C)  | -40°F (-40°C)                                    |
| Maximum ambient temperature      | 132°F (56°C)   | 104°F (40°C)                                     |
| Maximum pipe temperature         | 500°F (260°C)  | 500°F (260°C)                                    |
| Maximum operating voltage        | 480 Vac  | 277 Vac  |
| Overall height                   | 7 in (175 mm)  | 8 in (200 mm)                                    |
| Outer diameter at insulation     | 2 in (50 mm)<br>Usable with up to 4 in (100 mm) thermal insulation | 3 in (75 mm)                                     |
| Materials                        | High-performance glass-filled engineered polymer                   | High-performance glass-filled engineered polymer |
| <b>Light source</b>              |  | Super-bright light-emitting diodes (LEDs), red   |
| Light source power supply        | Not applicable   | Linear (nonswitching)                            |
| Power consumption                | N/A  | < 2 W  |

## ORDERING DETAILS

|   | E-100-A                                       | E-100-L-A               |
|---|---|-------------------------|
| <b>End seal</b>   |   |                         |
| Catalog number  | E-100-A (100–480 Vac)                         | E-100-L-A (100–277 Vac) |
| Part number   | 046567-000                                    | P000001582              |
| Weight  | 0.6 lb (272 g)                                | 0.65 lb (295 g)         |
| <b>Spare boot pack for E-100</b>  |   |                         |
|    |   |                         |
| Catalog number  | E-100-BOOT-5-PACK                             |                         |
| Part number   | 281053-000                                    |                         |
| Pack weight   | 0.25 lb (140 g)                               |                         |
| Pack contents   | Five sealant-filled boots and five cable ties |                         |
| <b>Replacement indicator light E-100-LR-A</b>                                       |   |                         |
|    |   |                         |
| Catalog number  | E-100-LR-A (100–277 Vac)                      |                         |
| Part number   | P000001584                                    |                         |
| Weight  | 0.33 lb (150 g)                               |                         |
| <b>Junction box standoff</b>  |   |                         |
| For insulation thickness $\geq 120$ mm & $\leq 180$ m*                              |   |                         |
|  |   |                         |
| Catalog number  | JBS-100-STANDOFF                              |                         |
| Part Number   | P000003408                                    |                         |
| Weight  | 0.297 lb / 135 g                              |                         |
| * Consider extra pipe strap length 6-9" (150-225 mm) for attachment                 |   |                         |
| <b>Small pipe adapter</b>   |   |                         |
| Required for stand on pipes $\leq 1$ "  |   |                         |
|  |   |                         |
| Catalog number  | JBS-SPA                                       |                         |
| Part Number   | E90515-000                                    |                         |
| Weight  | 0.408 lb / 185 g (Bag of 5 adaptors)          |                         |

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**Raychem Tracer Pyrotenax Nuheat**

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