

# Integrated Junction Box for Direct Connection of PI cables



nVent RAYCHEM JBx-PI-E(P) junction boxes are used for direct connection of XPI(-S) heating cables to a power supply, without the need of a cold lead, or for splicing. They come with an integrated pipe stand, an earth plate and external earth stud. There are 3 variations: two (2) are used for power connection (JBS-PI-EP, JBM-PI-EP); one (1) is used for splicing (JB-SPLICE-PI-E). They support monophase and triphase configurations, up to 45A operational current (depending on heating cable and temperature), and the design is integrated in TraceCalc Pro. Suitable for use in hazardous area.

## FEATURES

Simplified BOM (no cold lead, no support bracket, no insulation entry kit)

Simplified & faster installation (no hot-cold connections / no special tools / connection with cage clamp terminals)

Hazardous area approved

Different versions (supporting multiple configurations)

Design validated through nVent design software TraceCalc Pro

## SPECIFICATIONS

|                                     |                                |
|-------------------------------------|--------------------------------|
| <b>For Ex-Zone Gas:</b>             | 1, 2                           |
| <b>Max Conductor Cross Section:</b> | 16 mm <sup>2</sup>             |
| <b>For Ex-Zone Dust:</b>            | 21, 22                         |
| <b>Connection Type:</b>             | Cold Applied                   |
| <b>Material:</b>                    | Glass Fiber Reinforced Polymer |
| <b>Area Classification:</b>         | Non-Hazardous; Hazardous       |
| <b>IP Rating:</b>                   | IP66                           |
| <b>Knockouts Included:</b>          | No                             |
| <b>Below Insulation:</b>            | No                             |
| <b>Mounting:</b>                    | On Pipe                        |
| <b>Cover Attachment:</b>            | Screwed                        |
| <b>Halogen Free:</b>                | Yes                            |
| <b>Ambient Temperature:</b>         | -55 to 56 °C                   |

Table 1/2

| Catalog Number | Item Name      | Inlet Quantity | Cable Entry | Connection Clamp Quantity | Height | Width  |
|----------------|----------------|----------------|-------------|---------------------------|--------|--------|
| P000004430     | JB-SPLICE-PI-E | 0              | N.A.        | 5                         | 160 mm | 260 mm |
| P000004429     | JBM-PI-EP      | 1              | M32         | 5                         | 120 mm | 220 mm |
| P000004428     | JBS-PI-EP      | 1              | M25         | 3                         | 120 mm | 122 mm |

Table 2/2

| Catalog Number | Item Name      | Depth | Earth Plate Included |
|----------------|----------------|-------|----------------------|
| P000004430     | JB-SPLICE-PI-E | 90 mm | No                   |
| P000004429     | JBM-PI-EP      | 90 mm | Yes                  |
| P000004428     | JBS-PI-EP      | 90 mm | Yes                  |

## WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at [www.nvent.com](http://www.nvent.com) and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

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