

# Multiple-Entry Power/Tee Connection with Polymer Junction Box



nVent RAYCHEM JBM-100 is a modular junction box used to connect power to up to three nVent RAYCHEM BTV, QTVR, XTVR, HTV or VPL industrial parallel heating cables and integrates the functions of both connection kits and insulation entries. Offered in three versions, customized for local installation practices, each are also available with a power indicator. JBM-100-E, JBM-100-L-E; JBM-100-EP, JBM-100-L-EP; JBM-100-A, JBM-100-L-A.

## FEATURES

Simple and fast to install, spacious boxes with front access, captive lid screws and robust spring type terminals for secure fixing

Part of a modular component system, providing maximum flexibility

One range for all nVent RAYCHEM industrial parallel heating cables

Simplified design in hazardous area, integral part of system approval

Cold-applied: core sealing boot with non-curing sealant; no heat gun, no hot work permit needed

Reliable during long life: 10 year extended product warranty available, maintenance free

## SPECIFICATIONS

|                                     |                                |
|-------------------------------------|--------------------------------|
| <b>For Ex-Zone Gas:</b>             | 1, 2                           |
| <b>Inlet Quantity:</b>              | 2                              |
| <b>Connection Clamp Quantity:</b>   | 6                              |
| <b>Max Conductor Cross Section:</b> | 10 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>Cable Entry:</b>                 | M25                            |
| <b>Knockouts Included:</b>          | No                             |
| <b>Mounting:</b>                    | On Pipe                        |
| <b>Cover Attachment:</b>            | Screwed                        |

**Halogen Free:**

Yes

Table 1/2

| Catalog Number | Item Name    | Ambient Temperature | Height | Width  | Depth | Light Indication Included |
|----------------|--------------|---------------------|--------|--------|-------|---------------------------|
| 300273-000     | JBM-100-L-EP | -40 to 40 °C        | 240 mm | 220 mm | 90 mm | Yes                       |
| 395855-000     | JBM-100-L-E  | -40 to 40 °C        | 240 mm | 220 mm | 90 mm | Yes                       |
| 831519-000     | JBM-100-E    | -55 to 56 °C        | 240 mm | 220 mm | 90 mm | No                        |
| 986415-000     | JBM-100-EP   | -55 to 56 °C        | 240 mm | 220 mm | 90 mm | No                        |

Table 2/2

| Catalog Number | Item Name    | Earth Plate Included | Modular | Below Insulation |
|----------------|--------------|----------------------|---------|------------------|
| 300273-000     | JBM-100-L-EP | Yes                  | No      | No               |
| 395855-000     | JBM-100-L-E  | No                   | No      | No               |
| 831519-000     | JBM-100-E    | No                   | No      | No               |
| 986415-000     | JBM-100-EP   | Yes                  | No      | No               |

## ADDITIONAL PRODUCT DETAILS

Localized versions may exist with limited approvals and different part numbers. Contact your local sales representative.

## 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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