

# ATX™ JBEP Series Undrilled and Pre-Drilled, FRP Empty Junction Boxes

## Fiberglass Reinforced Polyester. Increased Safety. For Field Drilling and Customization.

**NEC/CEC:**  
Class I, Zone 1, AEx e IIC, T5 or T6  
Ex e IIC, T5 or T6  
IP66

**ATEX/IECEX:**  
Zone 1 and 2 – 21 and 22  
Ⓢ II 2 GD  
IP66 – IK10

### Applications

- Designed for Zones 1 or 2 areas, where flammable gases or vapors are present either continuously, often or accidentally such as:
  - Petroleum
  - Chemical
  - Refineries
  - Other industrial process facilities
- Ideal for indoor/outdoor use with wet or corrosive atmospheres.
- Designed for use in Zones 21 or 22 areas where flammable dusts (conductive and non conductive) are present either continuously, often or accidentally such as:
  - Food processing
  - Dairy
  - Brewing
  - Other industrial process facilities
- Designed for Zone 0 and Zone 20 Intrinsically Safe applications when used with rated terminals.

### Features

- Available in a wide range of sizes:
  - For armored, unarmored or armored lead sheathed cable
  - For use with Mantle Clamping (Pillar Terminals) for use as instrumentation, electrical or power terminals
  - For use with a variety of connection and earth terminals
- Optional external hinged enclosures:
  - Reversible door opening 120°.
  - Door with double bar lock.
  - Key locking facility.
- Refer to the technical guide to determine permitted and sizes of terminals and cables entries for self arrangement.

### Standard materials

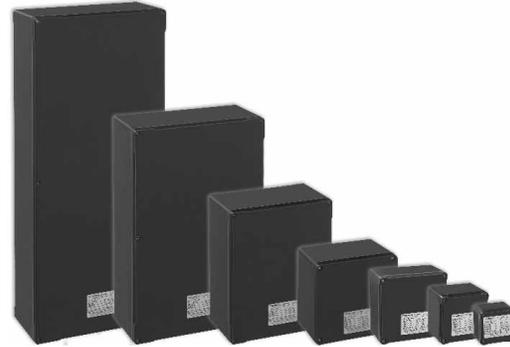
- Enclosures: Static resistant carbon filled fiberglass reinforced polyester (FRP)
- Hardware: stainless steel
- Gasket for sizes 85 x 85, 120 x 120: silicone
- Gasket for other sizes: EPDM (ethylene propylene diene monomer rubber)

### Options

- External hinges are available on the following sizes:
  - 500 x 320 x 150
  - 500 x 320 x 230
  - 750 x 320 x 150
  - 750 x 320 x 230
- Silicone gasket available for sizes 170 x 170 and 200 x 215
- Removable glands plates
- Nameplates
- Mounting pan
- Terminal rail
- Inside pocket for document
- Consult factory for custom drilling and assembly requirements.

### NEC/CEC Certifications and Compliances

- UL Standard: UL 60079-0; 60079-7
- CSA Standard: C22.2 No. 60079-0; 11; 60079-7; 12
- cCSAus Certified: 2625458
- CSA Listed: 013017



### ATEX/IECEX Certifications and Compliances

- Certification Type JBEP
  - Gas, Zones 1 and 2:
    - Conforming to ATEX 94/9/EC: Ⓢ IIG
    - Conforming to IECEx: EPL Gb
    - Type of Protection: Ex eb IIC, Ex eb ia IIC, Ex eb ib IIC, Ex ib IIC
    - Temperature Class: T6 for  $T_a \leq +40\text{ °C}$  (+104 °F), T5 for  $T_a \leq +60\text{ °C}$  (+140 °F) and T3 for  $T_a \leq +90\text{ °C}$  (+194 °F) for sizes 85 x 85, 120 x 120
  - Dusts, Zones 21 and 22:
    - Conforming to ATEX: Ⓢ IID
    - Conforming to IECEx: EPL Db
    - Type of Protection: Ex tb IIIC
    - Surface Temperature : T60 °C (T140 °F) for  $T_a \leq +40\text{ °C}$  (+104 °F), T90 °C (T194 °F) for  $T_a \leq +60\text{ °C}$  (+140 °F) and T110 °C (T230 °F) for  $T_a \leq +90\text{ °C}$  (+194 °F) for sizes 85 x 85, 120 x 120
  - Gas, Zone 0:
    - Conforming to ATEX 94/9/EC: Ⓢ II 1G
    - Conforming to IECEx : EPL Ga
    - Type of Protection: Ex ia IIC
    - T Rating: T6 for  $T_a \leq +40\text{ °C}$  (+104 °F) and T5 for  $T_a \leq +60\text{ °C}$  (+140 °F) and T3 for  $T_a \leq +90\text{ °C}$  (+194 °F) for sizes 85 x 85, 120 x 120
  - Dusts, Zones 20:
    - Conforming to ATEX: Ⓢ II 1D
    - Conforming to IECEx: EPL Da
    - Type of Protection: Ex ia IIIC
    - Surface Temperature : T60 °C (T140 °F) for  $T_a \leq +40\text{ °C}$  (+104 °F), T90 °C (T194 °F) for  $T_a \leq +60\text{ °C}$  (+140 °F) and T110 °C (T230 °F) for  $T_a \leq +90\text{ °C}$  (+194 °F) for sizes 85 x 85, 120 x 120
- ATEX Certificate: LCIE 12 ATEX 3037X
- EC Declaration of Conformity : 50291
- IECEX Certificate: IECEx LCIE 13.0003X
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance: IK10

### EURASEC Certification

- EURASEC N° TC RU C-FR.Г505.B.00911

### Other Certification

- INMETRO Certificate: BVC 13.3238 - X Ⓢ

Ⓢ INMETRO certification available on special request only. Contact your local sales representative for more information.

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Self Adhesive Pocket for Drawings — Set of 5, A4 Size			
	External Dimension – mm (in)	Internal Dimensions – mm (in)	Catalog Number
	260 x 165 (10 x 6)	230 x 130 x 18 (9 x 5 x 1)	JBEPSAP
	Set of 5 — Self adhesive plastic protective sleeve, Size A4.		JBEPSAPS
Laminated Plastic Nameplate for Engraving ①			
	Description	Size – mm (in)	Catalog Number
	White color with black lettering, two (2) mounting rivets included	65 x 18 (2.56 x 0.709)	NPW
	Yellow color with black lettering, two (2) mounting rivets included	65 x 18 (2.56 x 0.709)	NPY
Feed-Thru Earth/Ground Terminal			
	Description	Size	Catalog Number
	Stainless steel, complete with gasket washer, lock washers, nuts for internal and external cable connections	M8	JBEPET
	Set of 10 — Press fit, brass expansion insert	M5	JBPEPEXI

① Due to the size of JBEP0808060, optional Laminated Plastic Nameplate for Engraving is not recommended for this enclosure.  
The 85 x 85 x 60 mm (3.35 x 3.35 x 2.36 in) dimensions do not allow for mounting space beyond the factory adhered product label.