

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

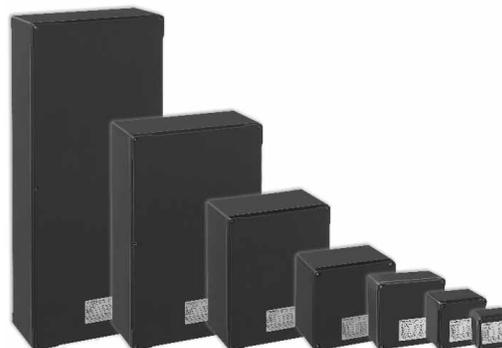
- Enclosures: Static resistant carbon filled fiberglass reinforced polyester (FRP)
- Hardware: stainless steel
- Gasket for sizes 85 x 85, 120 x 120: silicone
- Gasket for other sizes: EPDM (ethylene propylene diene monomer rubber)

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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Catalog Numbering Guide - JBEP Undrilled and Pre-Drilled, Empty Junction Boxes

<p>JBE</p> <p>Series: JBE - NEC/CEC and ATEX/ IECEX Certified Junction Box</p>	<p>P</p> <p>Material: P - Polyester</p>	<p>08</p> <p>Dimensions Height mm (in): 08 - 85 (3.35) 12 - 120 (4.72) 17 - 170 (6.69) 20 - 200 (7.87) 21 - 215 (8.46) 23 - 230 (9.05) 25 - 250 (9.84) 32 - 320 (12.60) 50 - 500 (19.69) 75 - 750 (29.53)</p>	<p>08</p> <p>Dimensions Width mm (in): 08 - 85 (3.35) 12 - 120 (4.72) 17 - 170 (6.69) 20 - 200 (7.87) 21 - 215 (8.46) 25 - 250 (9.84) 32 - 320 (12.60) 50 - 500 (19.69) 75 - 750 (29.53)</p>	<p>06</p> <p>Dimensions Depth mm (in): 06 - 61 (2.36) 07 - 66 (2.60) 09 - 91 (3.58) 09S - 91 (3.58) ① 11 - 116 (4.57) 15 - 150 (5.91) 23 - 230 (9.06)</p>	<p>0</p> <p>Gland Plates <i>(for location see chart below):</i> 0 - No Gland Plate 1 - Bottom, Plastic 2 - Top and Bottom, Plastic 3 - Bottom and Sides, Plastic 4 - All Sides Plastic, 5 - Bottom, Brass 6 - Top and Bottom, Brass 7 - Bottom and Sides, Brass 8 - All Sides, Brass</p>	<p>G</p> <p>Options: <i>(Options must be listed alphabetically)</i> A - Earth continuity Brass Plate G - Cable Glands M - Mounting Pan H - Hinges for sizes 500 or 750 x 320 x 150 or 230 mm (19.69" or 29.53" x 9.06" x 5.91" or 9.06") HR - Horizontal DIN-Rail VR - Vertical DIN-Rail # - Customized at Factory</p>
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① 09S Internal dimensions are 0.9 mm (0.035 in) less than the 09 internal dimensions.