EJB junction boxes

Applications:
EJB junction boxes are used in threaded rigid conduit systems in hazardous areas:
- As a junction or pull box
- To provide enclosures for splices and branch circuit taps
- For housing terminal blocks, relays and other electrical devices
- Indoors or outdoors in damp, wet, dusty, corrosive, hazardous locations
- Where exposure to frequent or heavy rain, water, spray, moisture and humidity is common, such as: offshore drilling facilities, cooling towers, coal preparation and handling facilities and sewage and waste water treatment
- In areas which are hazardous due to the presence of hydrogen or gases and vapors of equivalent hazard such as found in process industries, missile bases and gas manufacturing plants

Features:
- Style C boxes provided with aluminum plate cover as standard, allowing for field addition of cover device holes
- Stainless steel cover bolts (Style C only)
- Ground joint cover opening provides maximum opening for pulling wires or mounting equipment
- Walls of bodies may be drilled and tapped for conduit entries as shown in listings
- Stud bolts in diagonally opposite corners of body aid in aligning cover to body during installation (not furnished with hinged covers)
- All Style C bodies are provided with captive, triple lead, quick release hex head stainless steel bolts with spring loaded action which provides clear indication that cover bolts are fully retracted from the body
- External flange design – wide unobstructed cover opening provides a completely accessible interior for wiring and electrical equipment
- Square corners of enclosure body provide maximum interior space and area for conduit openings
- Internal grounding lug provides a means to ground enclosed equipment
- Special neoprene cover gasket provides a watertight seal to meet NEMA 4 requirements, and provides superior protection for enclosed equipment against water/corrosion
- IEC rated when ordered with ATEX suffix
- Enclosures are machined for field installed mounting plates
- Detachable mounting feet provide mounting flexibility; no need to replace enclosure if mounting feet are broken.
- Optional stainless steel hinges provide convenient and easy access for inspection, maintenance and systems changes
- Enclosures are machined to accept field installed hinges

Features:
- EJB121208 with optional hinged cover
- EJB121208 with optional hinged cover and standard neoprene cover gasket

Certifications and compliances:
NEC/CEC:
- Class I, Divisions 1 & 2, Groups B, C, D
- Class II, Div 1, Groups E, F, G
- Class II, Div 2, Groups F, G
- Class III
- NEMA 3, 4, 4X, 7, 9

CSA standard:
- cUL to CSA standard C22.2 No. 30

ATEX:
- Ex d IIB + H2 T6, IP66
- ATEX certificate: IT508ATEX15797U

IEC standards:
- EN:60079-0 and EN:60079-1
- IECEx certificate: IECEx ETL 13.0040U

Environmental ratings:
- Enclosure type 3, 3R, 4, 4X, 7BCD, 9EFG

Standard materials:
- Body and cover – copper-free aluminum (suffix SA items and all Style C); Feraloy iron alloy (Style D)
- Gasket – neoprene
- Cover bolts – stainless steel (Style C); steel (Style D)
- Hinges – stainless steel

Standard finishes:
- Copper-free aluminum – natural
- Feraloy iron alloy – electrogalvanized and aluminum acrylic paint
- Steel – electrogalvanized
- Extruded aluminum – natural

Options:
- Hinged covers...........................................S598
  Hinges mounted on left (short side)
- Available on all Style C and the following Style D enclosures: EJB100806-SA, EJB120804, EJB120804-SA, EJB120808-SA and EJB141006-SA
- ATEX certified ............................................ATEX
- Hinge kits for field installation (no field machining required):
  - EJB100806 through EJB361208
  - EJB120808-SA, EJB120808-SA and EJB141006-SA
- Factory installed mounting plates for relays, terminal blocks, electrical devices, etc.:
  - Aluminum mounting plate kit ..........MP
  - For field installation
  - Kit includes: aluminum mounting plate, pillars and mounting hardware
  - No field machining required
  - See ordering information on following page
  - Factory installed terminal blocks ............Information available upon request

Options:
- EJB100806 through EJB361208
  - EJB100806 (2 hinges)..............................EJB KIT 1
  - EJB120808-SA (3 hinges).........................EJB KIT 3
  - EJB362408 (4 hinges)..............................EJB KIT 4
  - For EJB101008-SA, EJB120804, EJB120804-SA, EJB120808-SA and EJB141006-SA (2 hinges).................EJB KIT 5

Options:
- EJB361208, 361808, 362408 and all Style D enclosures require sealing fittings within 18” of enclosure for each conduit run for Group D locations.
- Style D enclosures require sealing fittings within 18” of enclosure for each conduit run for Group D locations.

Options:
- For Group B, install sealing fitting in each conduit run within 18” of the enclosure. To meet 4X requirement, add suffix S752 or S753.
- EJB361208, 361808, 362408 and all Style D enclosures require sealing fittings within 18” of enclosure for each conduit run for Group C locations.
- For conduit liner ordering information, see Section 6E.
EJB junction boxes

Ordering information:
Junction boxes listed can be furnished with drilled and tapped openings, subject to material required and the limitations of maximum size and number of openings as well as spacing, as shown in Tables 1 and 2.

To order:
Step 1
Select the box required from photos at right, listings and dimensional drawings on following pages.

Step 2
Select standard conduit arrangement from Table 1 and maximum size conduit opening required from Table 2.

Step 3
Select appropriate symbol for required drilled and tapped opening from Table 3.

Example:
- Step 1 – box required: EJB080806
- Step 2 – arrangement: 2
- Step 3 – openings: two 1” drilled and tapped holes in top and bottom and two 2” drilled and tapped holes on each side.
- Step 4 – symbols are substituted and written in clockwise order starting with “a.” When no opening is required at a particular location, use symbol “0” (zero).
- For this example: CC, GG, CC, GG

Complete catalog number is made up of three parts: Part 1 – box number; Part 2 – arrangement number; Part 3 – symbols for conduit openings. For this example: EJB080806-2-CC-GG-CC-GG

If none of the standard arrangements meet requirements, send a sketch showing junction box number with size and location of each conduit opening desired

Gasket detail:

Cross section of cover; gasket extends beyond flange surface by .05"

Bolted cover and body assembled; compressed gasket forms watertight seal

Cl. I, Div. 1 & 2, Groups B, C, D
Cl. II, Div. 1, Groups E, F, G
Cl. II, Div. 2, Groups F, G
Cl. III
NEMA 3, 4, 4X, 7, 9
Ex d IIB + H2 T6, IP66
Dust-ignitionproof
Raintight
Wet locations

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Gasket detail:

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Bolted cover and body assembled; compressed gasket forms watertight seal
**Table 1**
Conduit arrangement diagrams

![Conduit arrangement diagrams](image)

**Table 2**
Conduit arrangements – Style D

<table>
<thead>
<tr>
<th>Cat. #</th>
<th>Top and bottom (bb)</th>
<th>Sides (aa)</th>
<th>Spacing dimensions</th>
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*Top and bottom are longer dimensions on enclosures which are not square.*

Conduit seals are required in all conduit entrances for Class I, Division 1, Group B hazardous areas, and for EJB361208, EJB361808, EJB361810, EJB362408 and all Style D enclosures when used in Class I, Division 1, Group C hazardous areas. For other sealing requirements, consult the National Electrical Code. Where standard arrangements are not adequate, special drilling and tapping can be ordered, or instructions can be provided for field drilling and tapping. Breathers and drains must be ordered separately. Maximum trade size for Group B application is 4".
## Ordering information reference tables (continued):

### Table 2 (continued)

#### Conduit arrangements – Style C drilled and tapped openings – Groups B, C, D

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### Table 3

#### Symbols for openings

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Maximum trade size for Group B applications is 4".
Top and bottom are longer dimensions on enclosures which are not square.
Spacing dimensions for Group B boxes are based on use of EYS11-EYS101 sealing fitting in conduit.
Conduit seals are required in all conduit entrances for Class I, Division 1, Group B hazardous areas, and for EJB361208, EJB361810, EJB362408 and all Style D enclosures when used in Class I, Division 1, Group C hazardous areas. For other sealing requirements, consult the National Electrical Code. Where standard arrangements are not adequate, special drilling and tapping can be ordered, or instructions can be provided for field drilling and tapping. Breathers and drains must be ordered separately. Maximum trade size for Group B application is 4".
For conduit liner ordering information, see Section 6E.
Dimensions (in inches):

Table 4

Outside dimensions

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For conduit liner ordering information, see Section 6E.
### Table 5
Mounting plate dimensions – Style C

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*Plate has no center hole.

For conduit liner ordering information, see Section 6E.
EJB602212 junction box

Applications:
The EJB602212 junction box is used in threaded rigid conduit systems in hazardous areas:
- As a junction or pull box
- As an enclosure for splices and branch circuit taps
- For housing terminal blocks, relays and other electrical devices
- As a mounting box for multi-device control panels with EMP barrel assemblies (see section 5C)
- Indoors or outdoors in damp, wet, dusty, corrosive locations
- Where exposure to frequent or heavy rain, water, spray, moisture and humidity is common, such as: offshore drilling facilities, cooling towers, coal preparation and handling facilities, and sewage and wastewater treatment plants
- Which are hazardous due to the presence of gases or vapors, such as those found in process industries, missile bases and gas manufacturing plants

Features:
- Ground joint cover opening provides maximum opening for pulling wires or mounting equipment
- Walls of enclosure may be drilled and tapped for conduit entries as shown in Table 2
- External flange design – wide unobstructed cover opening provides a completely accessible interior for wiring and electrical equipment
- Square corners of enclosure body provide maximum interior space and area for conduit openings
- Flat cover provides maximum space for mounting a greater number of control devices
- Internal grounding lug provides a means to ground enclosed equipment
- Special neoprene cover gasket provides a watertight seal to meet UL Type 4 (NEMA 4) requirements, and provides superior protection for enclosed equipment against water/corrosion
- Stainless steel cover bolts provide superior corrosion protection
- Enclosure is machined for field installed mounting plates
- Detachable mounting channels provide mounting flexibility; no need to replace enclosure if mounting channel is broken
- Aluminum hinges provide convenient and easy access for inspection, maintenance and systems changes
- Safety chain attached to body and cover prevents accidental damage to hinges

Certifications and compliances:
- NEC:
  - Class I, Divisions 1 & 2, Groups C, D
  - Class II, Division 1, Groups E, F, G
  - Class II, Division 2, Groups F, G
  - Class III
  - NEMA 3, 4, 7CD, 9EFG
- Explosionproof
- Dust-ignitionproof
- Raintight
- Wet locations

Standard materials:
- Body and cover – copper-free aluminum
- Gasket – neoprene
- Cover bolts – stainless steel
- Hinges – extruded aluminum

Standard finishes:
- Copper-free aluminum – natural
- Extruded aluminum – natural
- Stainless steel – natural
- Neoprene – natural

Options:
- Mounting plate kit.................. EJB-MP6022
  For field installation
  Kit includes: aluminum mounting plate, pillars and mounting hardware
  Factory installed aluminum mounting plate..............................................MP
  For relays, terminal blocks, electrical devices, etc.

Ordering information:
EJB602212 can be furnished with drilled and tapped openings, subject to the limitations of maximum size and number of openings as well as spacing, as shown in Tables 1 and 2.

To order:

Step 1
Specify box catalog number – EJB602212.

Step 2
Select standard conduit arrangement from Table 1 and maximum allowable size conduit opening from Table 2.

Step 3
Select appropriate symbol for required drilled and tapped opening from Table 3.

Example:
- Step 1 – box catalog number: EJB602212
- Step 2 – arrangement: 2
- Step 3 – openings: two 2” drilled and tapped holes in top and bottom and two 2½” drilled and tapped holes evenly spaced on each side.
- Step 4 – symbols are substituted and written in clockwise order starting with “a.” When no opening is required at a particular location, use symbol “0” (zero).
- For this example: GG-0H0H0-GG-0H0H0
- Complete catalog number is made up of three parts: Part 1 – box number; Part 2 – arrangement number; Part 3 – symbols for conduit openings. For this example: EJB602212-2-GG-0H0H0-GG-0H0H0.

For conduit liner ordering information, see Section 6E.
EJB602212 junction box

Cl. I, Div. 1 & 2, Groups C, D
Cl. II, Div. 1, Groups E, F, G
Cl. II, Div. 2, Groups F, G
Cl. III
NEMA 3, 4, 7CD, 9EFG

Explosionproof
Dust-ignitionproof
Raintight
Wet locations

Ordering information reference tables:

Table 1
Conduit arrangement diagrams

Table 2
Conduit arrangements

Table 3
Symbols for openings

Dimensions (in inches):

Nominal inside dimensions:

Conduit sealing fittings are required on all conduit entrances (within 18" of the enclosure) when used in Class I, Division 1, Group C hazardous areas. For other sealing requirements, consult the National Electrical Code.

For conduit liner ordering information, see Section 6E.