

EXB Cast Iron Junction Boxes

Explosionproof, Dust-Ignitionproof. Integrally Cast Mounting Feet

Drilled and tapped openings 1/2" thru 6" as specified.

NEC/CEC:

- Class I, Division 1 and 2, Group D
- Class II, Division 1 and 2 Groups E, F, G
- Class III

Features

- Wide selection of sizes and locations for drilled and tapped openings.
- Extra wide, accurately ground mating surfaces with closely spaced stainless steel hex head cap screws assure a flame-tight joint.
- Provided with mounting lugs.

Standard Materials

- Bodies and covers: cast iron

Standard Finishes

- Hot-dip galvanized

Options

- For factory installed hinges, add suffix **-HNG**.
- For factory installed mounting plate, add suffix **-WYM**
- Refer to *Junction Box Mounting Plate Information* for complete listing of available mounting plates.

NEC/CEC Certifications and Compliances

- UL Standard: UL 886 (UL 1203)
- UL Listed: E10444
- CSA Standard: C22.2 No. 25, C22.2 No. 30
- CSA Certified: 020945



| Nominal Inside Dimensions L x W x D mm (in) | Approximate Side Wall Thickness mm (in) | Maximum Conduit Size (Inches) | Catalog Number ① |
|---|---|-------------------------------|------------------|
| 101.6 x 101.6 x 101.6 (4 x 4 x 4) | 11.9 (0.47) | 2 | EXB040404 |
| 152.4 x 152.4 x 101.6 (6 x 6 x 4) | 16.0 (0.63) | 2 | EXB060604 |
| 203.2 x 152.4 x 101.6 (8 x 6 x 4) | 16.0 (0.63) | 2 | EXB080604 |
| 203.2 x 152.4 x 152.4 (8 x 6 x 6) | 16.0 (0.63) | 3-1/2 | EXB080606 |
| 203.2 x 203.2 x 101.6 (8 x 8 x 4) | 16.0 (0.63) | 2 | EXB080804 |
| 203.2 x 203.2 x 152.4 (8 x 8 x 6) | 16.0 (0.63) | 3-1/2 | EXB080806 |
| 245.0 x 203.2 x 152.4 (10 x 8 x 6) | 16.0 (0.63) | 3-1/2 | EXB100806 |
| 254.0 x 254.0 x 152.4 (10 x 10 x 6) | 16.0 (0.63) | 3-1/2 | EXB101006 |
| 304.8 x 203.2 x 101.6 (12 x 8 x 4) | 16.0 (0.63) | 2 | EXB120804 |
| 304.8 x 304.8 x 152.4 (12 x 12 x 6) | 17.5 (0.69) | 3-1/2 | EXB121206 |
| 304.8 x 304.8 x 203.2 (12 x 12 x 8) | 17.5 (0.69) | 5 | EXB121208 |
| 304.8 x 304.8 x 304.8 (12 x 12 x 12) | 17.5 (0.69) | 6 | EXB121212 |

① See EXB Ordering Information page for drilling and tapping options.

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Class I, Division 1 and 2, Group D
 Class II, Division 1 and 2 Groups E, F, G
 Class III

| Nom. Inside Dimensions LxWxD mm (in) | Approximate Side Wall Thickness mm (in) | Maximum Conduit Size | Catalog Number ① |
|--------------------------------------|---|----------------------|------------------|
| 457.2 x 304.8 x 152.4 (18 x 12 x 6) | 20.6 (0.81) | 3-1/2 | EXB181206 |
| 457.2 x 304.8 x 203.2 (18 x 12 x 8) | 20.6 (0.81) | 5 | EXB181208 |
| 457.2 x 457.2 x 152.4 (18 x 18 x 6) | 20.6 (0.81) | 3-1/2 | EXB181806 |
| 457.2 x 457.2 x 203.2 (18 x 18 x 8) | 20.6 (0.81) | 5 | EXB181808 |
| 609.9 x 457.2 x 203.2 (24 x 18 x 8) | 23.9 (0.94) | 6 | EXB241808 |

Hinges (Malleable Iron, Hot Dip Galvanized)

| EXB Box Size in mm (in) | Catalog Number | Number of Hinges per set |
|-------------------------------------|----------------|--------------------------|
| Up to 304.8 x 304.8 (12 x 12) | AHNG-22G | 2 |
| Up to 609.9 x 457.2 (24 x 18) | AHNG-23G | 2 |
| Up to 762.0 x 304.8 (30 x 12) | AHNG-24G | 2 |
| Larger than 762.0 x 304.8 (30 x 12) | AHNG-34G | 3 |

① See EXB Ordering Information page for drilling and tapping options.

EXB Series Junction Box Mounting Plate Information

Dust-Ignitionproof, Watertight

Cast iron box and cover for surface mounting. Cast aluminum box and cover for surface mounting.

NEC/CEC:

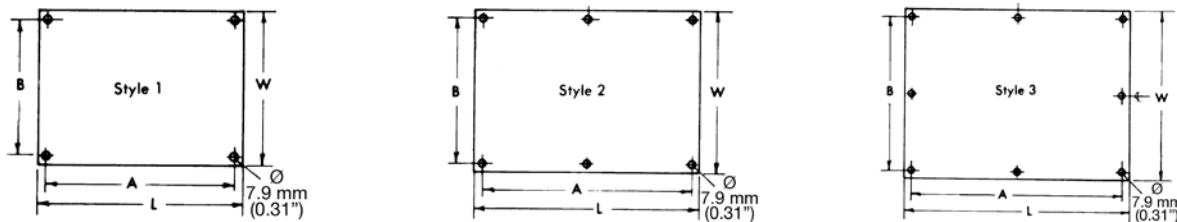
Class I, Division 1 and 2, Group D
 Class II, Division 1 and 2 Groups E, F, G
 Class III

Mounting plates are used for mounting equipment up off the back of an enclosure. Steel Plates are all 3.3 mm (0.13") thick hot dip galvanized material. Aluminum plates are 3.3 mm (0.13") thick material up to and including 304.8 x 304.8 mm (12 x 12") size. All larger sizes are constructed of 4.8 mm (0.19") thick aluminum plate. The catalog numbers shown in the table below include the mounting buttons.

Select mounting plates based on inside length and width of box. Order as a separate item immediately following the catalog number of the box as follows:

Example: Line 1 **EXB181204**
 Line 2 **WYM-1812-1**

For mounting plates in smaller boxes than listed, use similar catalog number logic. Example: A steel mounting plate for a **EXB040404** box would be **WYM-0404-1**. Pricing will be based upon a **WYM-0808-1** price.



| Inside Length and Width of Junction Box in mm (in) | Catalog Number | | Style | L | Dimension in Millimeters (Inches) | | |
|--|-------------------|--------------------|-------|---------------|-----------------------------------|---------------|---------------|
| | Steel Plates | Aluminum Plates | | | W | A | B |
| 203.2 x 203.2 (8 x 8) | WYM-0808-1 | WYM-0808-1A | 1 | 171.5 (6.75) | 171.5 (6.75) | 152.4 (6.00) | 152.4 (6.00) |
| 254.0 x 203.2 (10 x 8) | WYM-1008-1 | WYM-1008-1A | 1 | 222.3 (8.75) | 171.5 (6.75) | 203.2 (8.00) | 203.2 (8.00) |
| 254.0 x 254.0 (10 x 10) | WYM-1010-1 | WYM-1010-1A | 1 | 222.3 (8.75) | 222.3 (8.75) | 203.2 (8.00) | 203.2 (8.00) |
| 304.8 x 203.2 (12 x 8) | WYM-1208-1 | WYM-1208-1A | 1 | 273.1 (10.75) | 171.5 (6.75) | 254.0 (10.00) | 152.4 (6.00) |
| 304.8 x 304.8 (12 x 12) | WYM-1212-1 | WYM-1212-1A | 1 | 273.1 (10.75) | 273.1 (10.75) | 254.0 (10.00) | 254.0 (10.00) |
| 457.2 x 304.8 (18 x 12) | WYM-1812-1 | WYM-1812-1A | 1 | 171.5 (6.75) | 273.1 (10.75) | 152.4 (6.00) | 254.0 (10.00) |
| 457.2 x 457.2 (18 x 18) | WYM-1818-1 | WYM-1818-1A | 1 | 171.5 (6.75) | 171.5 (6.75) | 152.4 (6.00) | 152.4 (6.00) |
| 609.6 x 457.2 (24.00 x 18.00) | WYM-2418-1 | WYM-2418-1A | 2 | 552.5 (21.75) | 400.1 (15.75) | 533.4 (21.00) | 381.0 (15.00) |

ENCLOSURES AND JUNCTION BOXES: NEC/CEC EXPLOSIONPROOF ENCLOSURES

APPLETON™

EXB Cast Iron Junction Box Blank Bodies for Drilling and Tapping

Explosionproof, Dust-Ignitionproof. Integrally Cast Mounting Feet

Drilled and tapped openings 1/2" thru 6" as specified.

NEC/CEC:

Class I, Division 1 and 2, Group D
Class II, Division 1 and 2 Groups E, F, G
Class III

Determine catalog number as follows:

- (1) Select EXB junction box catalog number
- (2) Select "Conduit Opening Arrangement Diagram" number
- (3) Select symbols that represent conduit opening sizes from "Symbol Table."

Where no opening is required, the symbol 0 must be inserted. Add suffix for other optional features. The various divisions of the complete catalog number should be separated by dashes.

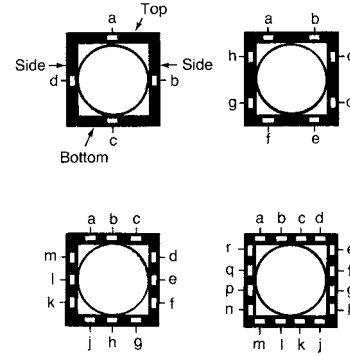
Example:

The junction box selected is **EXB181208** with steel mounting plate and the "Conduit Opening Arrangement" is diagram #1. Opening "a" is to be 1/2"; "b", 1-1/4"; "c", no opening needed; and "d", 1-1/2". In this example, the complete catalog number is:

EXB181208-1-AD0E-WYM-1812-1

Standard Conduit Opening Arrangement Diagrams

Opening "a" is always TOP of box



All Conduit Openings will be located in centerline of walls and evenly spaced unless otherwise specified. If a "Standard Conduit Opening Arrangement" is not suitable for the application, or when openings are to be more accurately spaced, submit Drill and Tap Schedule.

Symbol Table

| Drilling and Tapping (Five Threads Minimum) | | | |
|---|-------|--------|-------|
| Symbol | Size | Symbol | Size |
| O | Blank | F | 2 |
| A | 1/2 | G | 2-1/2 |
| B | 3/4 | H | 3 |
| C | 1 | J | 3-1/2 |
| D | 1-1/4 | K | 4 |
| E | 1-1/2 | L | 5 |
| | | M | 6 |

Minimum Recommended Spacing Between Conduit Openings

Allowance made for clearance over bushings. When unions or seals are used, additional space must be allowed.

Table shows minimum distances between conduit-opening centerlines in various size combinations. For example, if 1-1/2" and 3/4" openings are to be drilled and tapped into one side of box, the minimum spacing between centerlines would be 54.1 mm (2.13").

| Conduit Size Inches | Minimum space between conduit opening centerlines in Millimeters (Inches) | | | | | | | | | |
|------------------------|---|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 1/2 | 3/4 | 1 | 1-1/4 | 1-1/2 | 2 | 2-1/2 | 3 | 3-1/2 | 4 |
| 1/2 | 31.8 (1.25) | | | | | | | | | |
| 3/4 | 35.1 (1.38) | 38.1 (1.50) | | | | | | | | |
| 1 | 39.6 (1.56) | 42.9 (1.69) | 47.8 (1.88) | | | | | | | |
| 1-1/4 | 47.8 (1.88) | 50.8 (2.00) | 55.6 (2.19) | 62.0 (2.44) | | | | | | |
| 1-1/2 | 50.8 (2.00) | 54.1 (2.13) | 58.7 (2.31) | 66.8 (2.63) | 69.9 (2.75) | | | | | |
| 2 | 60.5 (2.38) | 63.5 (2.50) | 68.3 (2.69) | 74.7 (2.94) | 79.5 (3.13) | 87.4 (3.44) | | | | |
| 2-1/2 | 63.5 (2.50) | 66.8 (2.63) | 71.4 (2.81) | 79.5 (3.13) | 82.6 (3.25) | 92.2 (3.63) | 95.3 (3.75) | | | |
| 3 | 73.2 (2.88) | 76.2 (3.00) | 81.0 (3.19) | 87.4 (3.44) | 92.2 (3.63) | 100.1 (3.94) | 104.9 (4.13) | 112.8 (4.44) | | |
| 3-1/2 | 79.5 (3.13) | 82.6 (3.25) | 87.4 (3.44) | 95.3 (3.75) | 98.6 (3.88) | 108.0 (4.25) | 111.3 (4.38) | 120.7 (4.75) | 127.0 (5.00) | |
| 4 | 87.4 (3.44) | 90.4 (3.56) | 95.3 (3.75) | 102.9 (4.05) | 106.4 (4.19) | 115.8 (4.56) | 119.1 (4.69) | 128.5 (5.06) | 134.9 (5.31) | 143.0 (5.63) |

Diameters of Bushings, Unions, Conduit and Seals, in Millimeters (Inches)

| Conduit Size Inches | Diameters of Fittings for 1/2" through 4" Conduit | | | | | | | | | |
|---------------------------------|---|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|
| | 1/2 | 3/4 | 1 | 1-1/4 | 1-1/2 | 2 | 2-1/2 | 3 | 3-1/2 | 4 |
| BBU Bushing | 26.9 (1.06) | 33.3 (1.31) | 39.6 (1.56) | 49.3 (1.94) | 55.6 (2.19) | 68.3 (2.69) | 81.0 (3.19) | 98.6 (3.88) | 111.3 (4.38) | 124.0 (4.88) |
| BU Bushing | 28.7 (1.13) | 31.8 (1.25) | 41.4 (1.63) | 52.3 (2.06) | 58.7 (2.31) | 74.7 (2.94) | 82.6 (3.25) | 98.6 (3.88) | 115.8 (4.56) | 128.5 (5.06) |
| UNY/UNF (R) Union | 38.1 (1.50) | 44.5 (1.75) | 50.8 (2.00) | 71.4 (2.81) | 77.7 (3.06) | 95.3 (3.75) | 125.5 (4.94) | 138.2 (5.44) | 150.9 (5.94) | 165.1 (6.50) |
| Conduit | 22.4 (0.88) | 26.9 (1.06) | 35.1 (1.38) | 42.9 (1.69) | 49.3 (1.94) | 60.5 (2.38) | 73.2 (2.88) | 88.9 (3.50) | 101.6 (4.00) | 114.3 (4.50) |
| EYM-EYF Seals Turning Radius | 26.9 (1.06) | 30.2 (1.19) | 35.1 (1.38) | 44.5 (1.75) | 52.3 (2.06) | 58.7 (2.31) | 68.3 (2.69) | 79.5 (3.13) | 87.4 (3.44) | 93.7 (3.69) |

EXB Series Junction Box Drill and Tap Schedule

Dust-Ignitionproof, Watertight

Cast iron box and cover for surface mounting. Cast aluminum box and cover for surface mounting.

NEC/CEC:
 Class I, Division 1 and 2, Group D
 Class II, Division 1 and 2 Groups E, F, G
 Class III

ENCLOSURES AND JUNCTION BOXES: NEC/CEC EXPLOSIONPROOF ENCLOSURES

APPLETON

| CONDUIT POSITION | CHECK ONLY IF FACTORY IS TO LOCATE | | | METAL PLUGS |
|------------------|------------------------------------|--------|--------|-------------|
| | CONDUIT SIZE | X DIM. | D DIM. | |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
| 10 | | | | |
| 11 | | | | |
| 12 | | | | |
| 13 | | | | |
| 14 | | | | |
| 15 | | | | |
| 16 | | | | |
| 17 | | | | |
| 18 | | | | |
| 19 | | | | |
| 20 | | | | |
| 21 | | | | |
| 22 | | | | |
| 23 | | | | |
| 24 | | | | |

* = B&D LOC.

VIEW LOOKING INTO BOX
WITH SIDES LAID DOWN

CHECK LIST

ARE INDICATED CONDUIT SIZES WITHIN THE CATALOG PUBLISHED MAXIMUM ON PAGES K-40 AND K-43?

CHECK FOR MINIMUM SPACING BETWEEN CONDUIT OPENINGS PER CONDUIT SPACING TABLE, ON PAGE K-41.

SIGN NAME TO DWG.

NAME _____

DATE _____

ENCLOSURE FIGURE

ENCLOSURE

* = BREATHER/DRAIN LOC. 1/2" NPT REQUIRED. LOCATION MAY BE SPECIFIED ON THE CHART OR IF BOX IS CHECKED, FACTORY WILL LOCATE IN SIDES A & C.

DIM. X = DISTANCE FROM CENTERLINE TO CENTER OF CONDUIT OPENING.
 DIM. D = DISTANCE FROM MTG. SURFACE TO CENTER OF CONDUIT OPENING.

HINGED ENCLOSURES WILL BE HINGED ON SIDE "D" AS STANDARD.

CAUTION: IN PLANNING CONDUIT ARRANGEMENTS, REFER TO "USABLE CONDUIT AREA", SHOWN ON THE APPROPRIATE PRODUCT OUTLINE DRAWINGS AND TO THE CONDUIT SPACING CHARTS.

| | |
|----------------------|-----------|
| CONDUIT D&T SCHEDULE | |
| CAT. NO. _____ | REV _____ |