

# EXB Cast Iron Junction Boxes

Explosionproof, Dust-Ignitionproof. Integrally Cast Mounting Feet

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

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.

## Certifications and Compliances

- UL Standard: UL 886 (UL 1203)
- UL Listed: E10444



Nominal Inside Dimensions L x W x D Inches/Millimeters	Approximate Side Wall Thickness Inches/Millimeters	Maximum Conduit Size (Inches)	Catalog Number †
4 x 4 x 4 / 101.6 x 101.6 x 101.6	0.47/11.9	2	EXB040404
6 x 6 x 4 / 152.4 x 152.4 x 101.6	0.63/16.0	2	EXB060604
6 x 6 x 6 / 152.4 x 152.4 x 152.4	0.63/16.0	3-1/2	EXB060606
8 x 4 x 4 / 203.2 x 101.6 x 101.6	0.63/16.0	2	EXB080404
8 x 6 x 4 / 203.2 x 152.4 x 101.6	0.63/16.0	2	EXB080604
8 x 6 x 6 / 203.2 x 152.4 x 152.4	0.63/16.0	3-1/2	EXB080606
8 x 8 x 4 / 203.2 x 203.2 x 101.6	0.63/16.0	2	EXB080804
8 x 8 x 6 / 203.2 x 203.2 x 152.4	0.63/16.0	3-1/2	EXB080806
8 x 8 x 8 / 203.2 x 203.2 x 203.2	0.63/16.0	5	EXB080808
10 x 8 x 4 / 254.0 x 203.2 x 101.6	0.63/16.0	2	EXB100804
10 x 8 x 6 / 245.0 x 203.2 x 152.4	0.63/16.0	3-1/2	EXB100806
10 x 8 x 8 / 254.0 x 203.2 x 203.2	0.63/16.0	5	EXB100808
10 x 10 x 4 / 254.0 x 254.0 x 101.6	0.63/16.0	2	EXB101004
10 x 10 x 6 / 254.0 x 254.0 x 152.4	0.63/16.0	3-1/2	EXB101006
10 x 10 x 8 / 254.0 x 254.0 x 203.2	0.63/16.0	5	EXB101008
12 x 8 x 4 / 304.8 x 203.2 x 101.6	0.63/16.0	2	EXB120804
12 x 12 x 4 / 304.8 x 304.8 x 101.6	0.69/17.5	2	EXB121204
12 x 12 x 6 / 304.8 x 304.8 x 152.4	0.69/17.5	3-1/2	EXB121206
12 x 12 x 8 / 304.8 x 304.8 x 203.2	0.69/17.5	5	EXB121208
12 x 12 x 10 / 304.8 x 304.8 x 254.0	0.69/17.5	6	EXB121210
12 x 12 x 12 / 304.8 x 304.8 x 304.8	0.69/17.5	6	EXB121212

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

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Class I, Division 1 and 2, Group D  
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Class III

Nom. Inside Dimensions LxWxD Inches/Millimeters	Approximate Side Wall Thickness Inches/Millimeters	Maximum Conduit Size	Catalog Number †
18 x 12 x 4 / 457.2 x 304.8 x 101.6	0.81/20.6	2	EXB181204
18 x 12 x 6 / 457.2 x 304.8 x 152.4	0.81/20.6	3-1/2	EXB181206
18 x 12 x 8 / 457.2 x 304.8 x 203.2	0.81/20.6	5	EXB181208
18 x 12 x 12 / 457.2 x 304.8 x 304.8	0.81/20.6	6	EXB181212
18 x 18 x 6 / 457.2 x 457.2 x 152.4	0.81/20.6	3-1/2	EXB181806
18 x 18 x 8 / 457.2 x 457.2 x 203.2	0.81/20.6	5	EXB181808
18 x 18 x 12 / 457.2 x 457.2 x 304.8	0.81/20.6	6	EXB181812
24 x 12 x 8 / 609.9 x 304.8 x 203.2	0.81/20.6	5	EXB241208
24 x 12 x 10 / 609.9 x 304.8 x 245.0	0.81/20.6	6	EXB241210
24 x 12 x 12 / 609.9 x 304.8 x 304.8	0.81/20.6	6	EXB241212
24 x 18 x 6 / 609.9 x 457.2 x 152.4	0.94/23.9	3	EXB241806
24 x 18 x 8 / 609.9 x 457.2 x 203.2	0.94/23.9	6	EXB241808
24 x 18 x 10 / 609.9 x 457.2 x 245.0	0.94/23.9	6	EXB241810
24 x 18 x 12 / 609.9 x 457.2 x 304.8	0.94/23.9	6	EXB241812
24 x 24 x 8 / 609.9 x 609.9 x 203.2	0.94/23.9	5	EXB242408
24 x 24 x 12 / 609.9 x 609.9 x 304.8	0.94/23.9	6	EXB242412
30 x 12 x 10 / 762.0 x 304.8 x 245.0	1.06/26.9	6	EXB301210
30 x 24 x 8 / 762.0 x 609.9 x 203.2	1.06/26.9	5	EXB302408
30 x 24 x 10 / 762.0 x 609.9 x 245.0	1.06/26.9	6	EXB302410
30 x 24 x 12 / 762.0 x 609.9 x 304.8	1.06/26.9	6	EXB302412

### Hinges (Malleable Iron, Hot Dip Galvanized)

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

† 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.

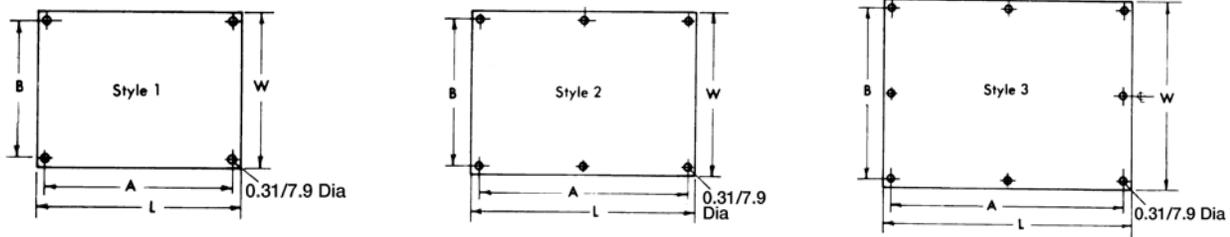
Class I, Division 1 and 2, Group D  
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Mounting plates are used for mounting equipment up off the back of an enclosure. Steel Plates are all 0.13"/3.3mm thick hot dip galvanized material. Aluminum plates are 0.13"/3.3 mm thick material up to and including 12 x 12" / 304.8 x 304.8 mm size. All larger sizes are constructed of 0.19"/4.8mm 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 & Width of Junction Box in in/mm	Catalog Number		Style	Dimension in Inches/Millimeters			
	Steel Plates	Aluminum Plates		L	W	A	B
8 x 8/203.2 x 203.2	<b>WYM-0808-1</b>	<b>WYM-0808-1A</b>	1	6.75/171.5	6.75/171.5	6.00/152.4	6.00/152.4
10 x 8/254.0 x 203.2	<b>WYM-1008-1</b>	<b>WYM-1008-1A</b>	1	8.75/222.3	6.75/171.5	8.00/203.2	8.00/203.2
10 x 10/254.0 x 254.0	<b>WYM-1010-1</b>	<b>WYM-1010-1A</b>	1	8.75/222.3	8.75/222.3	8.00/203.2	8.00/203.2
12 x 8/304.8 x 203.2	<b>WYM-1208-1</b>	<b>WYM-1208-1A</b>	1	10.75/273.1	6.75/171.5	10.00/254.0	6.00/152.4
12 x 10/304.8 x 254.0	<b>WYM-1210-1</b>	<b>WYM-1210-1A</b>	1	10.75/273.1	8.75/222.3	10.00/254.0	8.00/203.2
12 x 12/304.8 x 304.8	<b>WYM-1212-1</b>	<b>WYM-1212-1A</b>	1	10.75/273.1	10.75/273.1	10.00/254.0	10.00/254.0
14 x 8/355.6 x 203.2	<b>WYM-1408-1</b>	<b>WYM-1408-1A</b>	1	12.75/323.9	6.75/171.5	12.00/304.8	6.00/152.4
14 x 14/355.6 x 355.6	<b>WYM-1414-1</b>	<b>WYM-1414-1A</b>	1	12.75/323.9	12.75/323.9	12.00/304.8	12.00/304.8
16 x 8/406.4 x 203.2	<b>WYM-1608-1</b>	<b>WYM-1608-1A</b>	1	14.75/374.7	6.75/171.5	14.00/355.6	6.00/152.4
16 x 12/406.4 x 304.8	<b>WYM-1612-1</b>	<b>WYM-1612-1A</b>	1	14.75/374.7	10.75/273.1	14.00/355.6	10.00/254.0
16 x 16/406.4 x 406.4	<b>WYM-1616-1</b>	<b>WYM-1616-1A</b>	1	14.75/374.7	14.75/374.7	14.00/355.6	14.00/355.6
18 x 8/457.2 x 203.2	<b>WYM-1808-1</b>	<b>WYM-1808-1A</b>	1	16.75/171.5	6.75/171.5	16.00/152.4	6.00/152.4
18 x 10/457.2 x 254.0	<b>WYM-1810-1</b>	<b>WYM-1810-1A</b>	1	16.75/171.5	8.75/222.3	16.00/152.4	8.00/203.2
18 x 12/457.2 x 304.8	<b>WYM-1812-1</b>	<b>WYM-1812-1A</b>	1	16.75/171.5	10.75/273.1	16.00/152.4	10.00/254.0
18 x 14/457.2 x 355.6	<b>WYM-1814-1</b>	<b>WYM-1814-1A</b>	1	16.75/171.5	12.75/323.9	16.00/152.4	12.00/304.8
18 x 16/457.2 x 406.4	—	—	—	—	—	—	—
18 x 18/457.2 x 457.2	<b>WYM-1818-1</b>	<b>WYM-1818-1A</b>	1	16.75/171.5	16.75/171.5	16.00/152.4	16.00/152.4
20 x 10/508.0 x 254.0	<b>WYM-2010-1</b>	<b>WYM-2010-1A</b>	1	18.75/222.3	8.75/222.3	18.00/203.2	8.00/203.2
24.00 x 12.00/609.6 x 304.8	<b>WYM-2412-1</b>	<b>WYM-2412-1A</b>	2	21.75/552.5	9.75/247.7	21.00/533.4	9.00/228.6
24.00 x 18.00/609.6 x 457.2	<b>WYM-2418-1</b>	<b>WYM-2418-1A</b>	2	21.75/552.5	15.75/400.1	21.00/533.4	15.00/381.0
24.00 x 24.00/609.6 x 609.6	<b>WYM-2424-1</b>	<b>WYM-2424-1A</b>	3	21.75/552.5	21.75/552.5	21.00/533.4	21.00/533.4
28.00 x 12.00/711.2 x 304.8	<b>WYM-2812-1</b>	<b>WYM-2812-1A</b>	2	25.75/654.1	9.75/247.7	25.00/635.0	9.00/228.6
30.00 x 12.00/762.0 x 304.8	<b>WYM-3012-1</b>	<b>WYM-3012-1A</b>	2	27.75/704.9	9.75/247.7	27.00/685.8	9.00/228.6
30.00 x 18.00/762.0 x 457.2	<b>WYM-3018-1</b>	<b>WYM-3018-1A</b>	2	27.75/704.9	15.75/400.1	27.00/685.8	15.00/381.0
30.00 x 24.00/762.0 x 609.6	<b>WYM-3024-1</b>	<b>WYM-3024-1A</b>	3	27.75/704.9	21.75/552.5	27.00/685.8	21.00/533.4
36.00 x 12.00/914.4 x 304.8	<b>WYM-3612-1</b>	<b>WYM-3612-1A</b>	2	33.75/857.3	9.75/247.7	33.00/838.2	9.00/228.6
36.00 x 18.00/914.4 x 457.2	<b>WYM-3618-1</b>	<b>WYM-3618-1A</b>	2	33.75/857.3	15.75/400.1	33.00/838.2	15.00/381.0
36.00 x 24.00/914.4 x 609.6	<b>WYM-3624-1</b>	<b>WYM-3624-1A</b>	3	33.75/857.3	21.75/552.5	33.00/838.2	21.00/533.4
36.00 x 30.00/914.4 x 762.0	<b>WYM-3630-1</b>	<b>WYM-3630-1A</b>	3	33.75/857.3	27.75/704.9	33.00/838.2	27.00/685.8
36.00 x 36.00/914.4 x 914.4	<b>WYM-3636-1</b>	<b>WYM-3636-1A</b>	3	33.75/857.3	33.75/857.3	33.00/838.2	33.00/838.2

Enclosures and Junction Boxes

ENCLOSURES AND JUNCTION BOXES: HAZARDOUS JUNCTION BOXES

# EXB Cast Iron Junction Box Blank Bodies for Drilling and Tapping

## Explosionproof, Dust-Ignitionproof. Integrally Cast Mounting Feet

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Class I, Division 1 and 2, Group D  
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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.

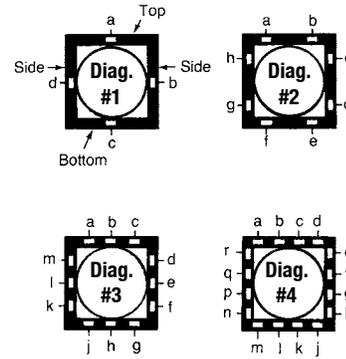
**Example:**

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
<b>O</b>	Blank	<b>F</b>	2
<b>A</b>	1/2	<b>G</b>	2-1/2
<b>B</b>	3/4	<b>H</b>	3
<b>C</b>	1	<b>J</b>	3-1/2
<b>D</b>	1-1/4	<b>K</b>	4
<b>E</b>	1-1/2	<b>L</b>	5
		<b>M</b>	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 2.13"/54.1mm.

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

### Diameters of Bushings, Unions, Conduit and Seals, Inches/Millimeters

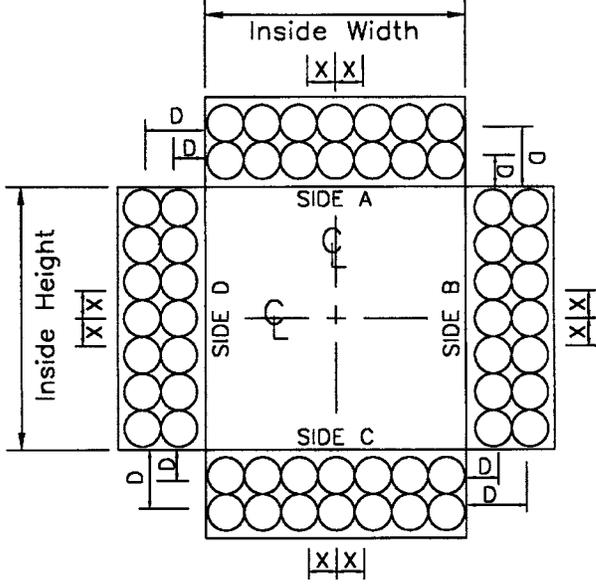
Conduit Size Inches	Diameters of Fittings for 1/2" through 4" Conduit									
	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
BBU Bushing	1.06/26.9	1.31/33.3	1.56/39.6	1.94/49.3	2.19/55.6	2.69/68.3	3.19/81.0	3.88/98.6	4.38/111.3	4.88/124.0
BU Bushing	1.13/28.7	1.25/31.8	1.63/41.4	2.06/52.3	2.31/58.7	2.94/74.7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

# EXB Series Junction Box Drill and Tap Schedule

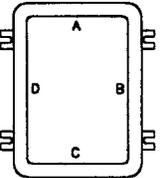
## Dust-Ignitionproof, Watertight

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

### Ordering Information

CONDUIT POSITION	CHECK ONLY IF FACTORY IS TO LOCATE			METAL PLUGS	<p>* = B&amp;D LOC.</p> 	<h3>CHECK LIST</h3> <p>ARE INDICATED CONDUIT SIZES WITHIN THE CATALOG PUBLISHED MAXIMUM ON PAGES K-40 AND K-43?</p> <p>CHECK FOR MINIMUM SPACING BETWEEN CONDUIT OPENINGS PER CONDUIT SPACING TABLE, ON PAGE K-41.</p> <input type="checkbox"/> SIGN NAME TO DWG.
	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						

**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 \_\_\_\_\_

Enclosures and Junction Boxes

ENCLOSURES AND JUNCTION BOXES: HAZARDOUS JUNCTION BOXES