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: E85310
- 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 x152.4 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 203.2 x 203.2 (10 x 8 x 8)	16.0 (0.63)	5	**EXB100808**
254.0 x 254.0 x 152.4 (10 x 10 x 6)	16.0 (0.63)	3-1/2	**EXB101006**
254.0 x 254.0 x 203.2 (10 x 10 x 8)	16.0 (0.63)	5	**EXB101008**
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.*

EXB Cast Iron Junction Box Blank Bodies for Drilling and Tapping

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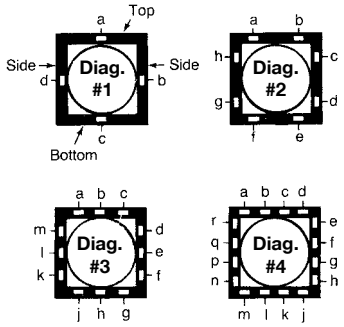
Determine catalog number as follows:

(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**
0	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

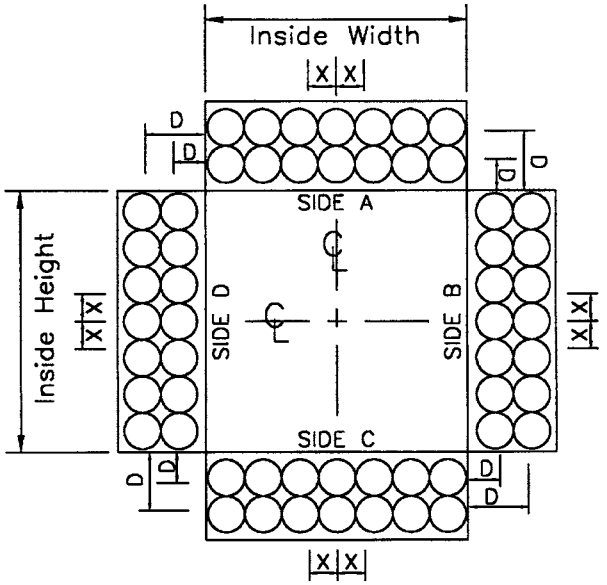
CONDUIT POSITION	CONDUIT SIZE	X DIM.	D DIM.	METAL PLUGS
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				

CHECK ONLY IF FACTORY IS TO LOCATE

☐ DRAIN ONLY, SIDE ___

☐ BREATHER & DRAIN SIDES ___ & ___

✳ = 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?

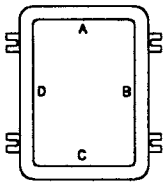
CHECK FOR MINIMUM SPACING BETWEEN CONDUIT OPENINGS PER CONDUIT SPACING TABLE, ON PAGE K–41.

☐ 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