

# DTX Series Junction Boxes

## Dust-Ignitionproof, Watertight

Cast iron box and cover for surface mounting.

### NEC:

Class II, Division 1 and 2, Groups E, F, G

Class III

NEMA 4, 9EFG

### Applications

- DTX dust tight and watertight boxes are specially designed and constructed for hazardous locations where ignitable dusts, fibers or flyings are present such as:
- Grain elevators
- Grain storage areas
- Paper mills
- Coal storage facilities
- Textile factories

### Features

- Provided with mounting lugs.
- Mechanically attached gaskets.

### Standard Materials

- Bodies and covers: cast iron
- Gasket: vellumoid
- Cover bolts: stainless steel

### Standard Finishes

- Cast iron bodies and covers: hot dip galvanized finish

### Optional Materials

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

### NEC Certifications and Compliances

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



# DTX Series Junction Boxes

## Dust-Ignitionproof, Watertight

Cast iron box and cover for surface mounting.

NEC:  
Class II, Division 1 and 2, Groups E, F, G  
Class III  
NEMA 4, 9EFG

ENCLOSURES AND JUNCTION BOXES: NEC/CEC WEATHERPROOF/DUSTPROOF JUNCTION AND OUTLET BOXES

Approximate Thickness Side Walls mm (in)	Maximum Conduit Size (In.-NPT)	Inside Dim. in Millimeters (Inches)				Weight kg (lb)	Catalog Number ①	
		L	x	W	x			D
7.1 (0.28)	3/4	406.4 (16.00)	x	304.8 (12.00)	x	203.2 (8.00)	36.7 (81.00)	<b>DTX-161208</b>
7.1 (0.28)	3/4	457.2 (18.00)	x	203.2 (8.00)	x	152.4 (6.00)	25.9 (57.00)	<b>DTX-180806</b>
7.1 (0.28)	3/4	457.2 (18.00)	x	304.8 (12.00)	x	152.4 (6.00)	37.2 (82.00)	<b>DTX-181206</b>
7.9 (0.31)	2	457.2 (18.00)	x	304.8 (12.00)	x	254.0 (10.00)	48.5 (107.00)	<b>DTX-181210</b>
7.9 (0.31)	2	457.2 (18.00)	x	457.2 (18.00)	x	152.4 (6.00)	59.0 (130.00)	<b>DTX-181806</b>
7.9 (0.31)	2	609.6 (24.00)	x	304.8 (12.00)	x	203.2 (8.00)	56.7 (125.00)	<b>DTX-241208</b>
7.9 (0.31)	2	609.6 (24.00)	x	304.8 (12.00)	x	304.8 (12.00)	72.6 (160.00)	<b>DTX-241212</b>
8.6 (0.34)	2	609.6 (24.00)	x	457.2 (18.00)	x	304.8 (12.00)	106.6 (235.00)	<b>DTX-241812</b>
11.2 (0.44)	6	914.4 (36.00)	x	914.4 (36.00)	x	304.8 (12.00)	240.4 (530.00)	<b>DTX-363612</b>

① Type DTX boxes must have a minimum of 3-1/2 full threads at all conduit entrances. The "Max. Conduit Size" listed herein indicates the maximum drilled and tapped conduit entrance which can be machined into the four unbossed sides of a given box to provide these 3-1/2 full threads. If larger conduit openings than those listed herein are required, bosses can be supplied by us at an additional cost to provide the minimum 3-1/2 full thread requirement. In addition to the minimum 3-1/2 full thread requirement, the length of thread at conduit entrances must also be at least 1/4". A 3/8" conduit entrance therefore requires a minimum of a 6.4 mm (0.25") wall thickness. For aluminum box and cover, add suffix -A.

# DTX Series Junction Box Drill and Tap Schedule

Dust-Ignitionproof, Watertight

Cast iron box and cover for surface mounting.

NEC:  
 Class II, Division 1 and 2, Groups E, F, G  
 Class III  
 NEMA 4, 9EFG

ENCLOSURES AND JUNCTION BOXES: NEC/CEC WEATHERPROOF/DUSTPROOF JUNCTION AND OUTLET BOXES

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 _____

# DTX Series Junction Box

## Dust-Ignitionproof, Watertight

Cast iron box and cover for surface mounting.

**NEC:**

Class II, Division 1 and 2, Groups E, F, G

Class III

NEMA 4, 9EFG

### Outside Flange Dimensional Data in Millimeters (Inches)

Overall Enclosure				Mounting Enclosure			Mount Thickness	Depth	Conduit Area				Clear Opening		Wall Thickness			Catalog Number
A	B	C	D	E	F	G	J	K	L	M	N	P	S	T	X	Y	Z	
538.20 (21.19)	690.60 (27.19)	170.70 (6.72)	161.00 (6.34)	524.00 (20.63)	482.60 (19.00)	14.20 (0.56)	9.70 (0.38)	152.40 (6.00)	590.60 (23.25)	124.00 (4.88)	438.20 (17.25)	19.10 (0.75)	457.20 (18.00)	609.60 (24.00)	7.90 (0.31)	9.70 (0.38)	8.60 (0.34)	DTX-241806
538.20 (21.19)	690.60 (27.19)	323.10 (12.72)	313.40 (12.34)	524.00 (20.63)	482.60 (19.00)	14.20 (0.56)	9.70 (0.38)	304.80 (12.00)	584.20 (23.00)	276.40 (10.88)	431.80 (17.00)	19.10 (0.75)	457.20 (18.00)	609.60 (24.00)	8.60 (0.34)	9.70 (0.38)	8.60 (0.34)	DTX-241812
690.60 (27.19)	690.60 (27.19)	44.50 (1.75)	314.50 (12.38)	682.80 (26.88)	482.60 (19.00)	14.20 (0.56)	9.70 (0.38)	304.80 (12.00)	584.20 (23.00)	276.40 (10.88)	584.20 (23.00)	19.10 (0.75)	609.60 (24.00)	609.60 (24.00)	9.70 (0.38)	9.70 (0.38)	9.70 (0.38)	DTX-242412
990.60 (39.00)	990.60 (39.00)	327.20 (12.88)	327.20 (12.88)	987.60 (38.88)	762.00 (30.00)	14.20 (0.56)	9.70 (0.38)	304.80 (12.00)	914.40 (36.00)	273.10 (10.75)	914.40 (36.00)	20.60 (0.81)	914.40 (36.00)	914.40 (36.00)	11.20 (0.44)	11.20 (0.44)	11.20 (0.44)	DTX-363612

ENCLOSURES AND JUNCTION BOXES: NEC/CEC WEATHERPROOF/DUSTPROOF JUNCTION AND OUTLET BOXES

**APPLETON™**