

AJBEW Cast Junction Boxes

Explosionproof, Dust-Ignitionproof

Zones 1 & 2 – 21 & 22
Gas (G) and Dust (D)

Application

- Explosionproof junction boxes are used where hazardous materials are handled or stored. These enclosures may be used for:
 - Terminals
 - Splicing wires
 - Pull boxes
 - Bus boxes

Features

- Precision machined flame path between box and cover.
- Bolt on stainless steel slotted mounting feet for horizontal or vertical mounting.
- Flexible hinge mounting either left or right side is standard on all boxes 12 x 12 x 06 and larger.
- External flange maximizes internal space.
- Wall thickness suitable for minimum of five full threads.
- Provision for mounting pan.
- Wide range of drilled and tapped outlets.
- Ground lug package and installation instructions for termination of ground wires enclosed.
- O-ring gasket insures watertight integrity.

Standard Materials

- Bodies and covers: sand cast copperfree (4/10 of 1% max.) aluminum
- Cover bolts: stainless steel
- O-ring: neoprene
- Hinges: stainless steel
- Mounting pan: galvanized steel

Standard Finishes

- Bodies and covers: shot blast finish standard

Options

- Custom drilling and tapping.
- ATEX U component certification add suffix **-XU**.

Certifications and Compliances

◆ATEX/IECEx Certification

- **Certification Type JBEW**
 - Gas, Zones 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 G
 - Type of Protection: Ex d IIB+H2 Gb
 - Dust, Zones 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓔ II 2 D
 - Type of Protection: Ex t Db
 - Ambient Temperature: -40 °C to +55 °C
 - CE Declaration of Conformity: 5C239
 - ATEX Certificate: LCIE 07 ATEX 6069X
 - IECEx Certificate: IECEx LCI 07.0018X
 - Internal Volume: > 2 dm³ (2 liters)
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK10

◆EURASEC Certification

- **Certification Type JBEW**
 - EURASEC N° TC RU C-FR.Г505.B.00911



AJBEW Cast Junction Boxes

Explosionproof, Dust-Ignitionproof

Zones 1 & 2 – 21 & 22
Gas (G) and Dust (D)

Dimensions in Millimeters													
Catalog Number	Overall Dimensions			Mounting Dimensions				Inside Dimensions				Ship Weight kg	
	F	E	G	A	AA	B	BB	W	H	Db	Dc		K
AJBEW101006X	376.2	376.2	231.9	165.1	273.8	330.2	114.3	260.4	260.4	146.1	38.1	85.9	20.00
AJBEW101408X	368.3	469.9	244.6	N/A	330.2	N/A	270	254.0	355.6	196.9	19.1	112.8	27.2
AJBEW141408X	492.3	492.3	293.6	247.7	450.9	450.9	247.7	374.7	374.7	196.9	35.1	101.6	47.6
AJBEW161812X	543.1	593.9	382.5	304.8	482.6	533.4	355.6	412.8	463.6	301.8	9.7	177.8	68.0
AJBEW181808X	593.9	593.9	303.3	330.2	552.5	552.5	330.2	463.6	463.6	196.9	38.1	114.3	89.8
AJBEW182410X	608.1	762.0	360.2	409.7	552.5	704.9	466.9	463.6	614.4	247.7	38.1	146.1	106.6
AJBEW183610X	596.9	1060.5	363.5	279.4	552.5	1003.3	736.6	463.6	927.1	247.7	38.1	139.7	122.5
AJBEW242408X	746.3	746.3	312.7	466.9	711.2	711.2	466.9	622.3	622.3	196.9	38.1	127.0	102.1
AJBEW243610X	781.1	1092.2	382.5	463.6	711.2	1016.0	736.6	616.0	920.8	247.7	41.4	152.4	204.1
AJBEW303808X	914.4	1117.6	349.3	N/A	889.0	N/A	736.6	762.0	965.2	196.9	50.8	155.7	272.2

Mounting Pans

Mounting Pan Catalog Number	Junction Box Catalog Number	Overall Dimensions in Millimeters	
		W	H
AZ-10104/6	AJBEW101006X	190.5	190.5
AZ-10146/8	AJBEW101408X	228.6	330.2
AZ-14146/8	AJBEW141408X	311.2	311.2
AZ-161812	AJBEW161812X	381.0	406.4
AZ-18186/8	AJBEW181808X	406.4	406.4
AZ-18248/10	AJBEW182410 X	406.4	558.8
AZ-18368/10	AJBEW183610X	431.8	882.7
AZ-24248/10	AJBEW242408X	558.8	558.8
AZ-24368/10	AJBEW243610X	558.8	863.6
AZ-30388	AJBEW303808X	711.2	914.4

AJBEW Cast Junction Box Dimensions and Drilling and Tapping Guidelines

Explosionproof, Dust-Ignitionproof

Dimensions — See Catalog Number Tables

