

Junction Boxes & Enclosures

JBDA and JBDF – ECDA, ECDF and ACSEW Series: Customized Enclosures – Flameproof



CF40B



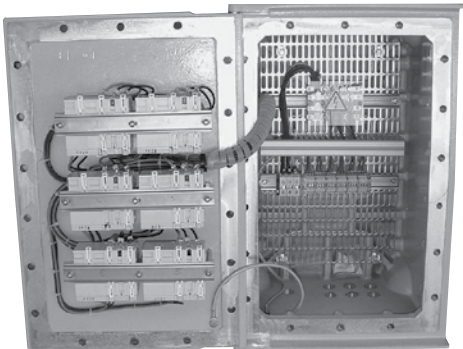
JBEW



CF50C



CF1E



Customized Enclosures



CF2C

Compliance Data:

ATEX - IEC:

Zone 1 & 2 – 21 & 22	ATEX	II 2 GD	IEC	CE
Ex d IIB and IIC	T6 to T2	Ex tD A21	T80°C to T290°C	IP66 – IK10

Operating Temperatures:

-20°C to +55°C; -50°C to +55°C
-40°C to +55°C



Junction Boxes & Enclosures

JBDA and JBDF – ECDA, ECDF and ACSEW Series: Customized Enclosures – Flameproof

Zone 1 & 2 – 21 & 22

Ex II 2 GD

ATEX / IEC

IP66 – IK10

Applications:

- Designed for use in Zones 1, 2, 21 and 22 in the oil and gas industry; i.e. petroleum, chemical, refineries and other industrial process facilities.
- Junction box applications:
JBD series enclosures may be customized to house terminal blocks.
- Enclosure and control applications:
ECD series enclosures may be customized to house a large range of components; i.e. control units, breakers, starters, relays, meters, etc.

Features:

- Enclosures are available in a wide range of sizes.
- Precision machined flameproof joint between body and cover.
- Wall thickness suitable for all sizes of cable entries.
- External fixing lugs.
- Internal mounting pan.

- Square and round windows available in a wide range of sizes.
- Machining and drilling must be completed in our workshops.
- Power dissipated calculation including cables must be completed according to each size of certified enclosure.

Standard Materials:

- Gray painted cast iron and marine grade aluminum alloy enclosures.
- Stainless steel hardware.

Options:

- Indirect cable entries available through Ex e connection enclosure.
- Factory assembled and wired.
- Switch rack assembly.
- Empty enclosure with Ex "U" component marking for re-certification by notified body (CF10B to CF70B & JBEW).

Catalog Number Logic:

JBDA	X	XX XX XX	X
Series ATEX / IEC Certified: JB = Junction Box EC = Enclosure & Controls D = Flameproof A = Aluminum F = Cast Iron	Classification: B = IIB C = IIC	Dimensions (mm): Length x Width x Depth (see ordering information below)	Options: Options must be listed alphabetically U = Component Certification U # = Customized Enclosure
#: 6 Digit number will be assigned at time of order placement.			

Ordering Information:

Type	Dimensions L x W x D (mm)	Hinged Door	Weight (kg)	Volume (dm ³)	JBD Series Catalog Number	ECD Series Catalog Number	Old Catalog Number
Ex d IIB Enclosure in Cast Iron with Flanged Flameproof Joint							
 CF2C	130 x 130 x 90 mm	–	4	3	JBDFB 131309_	ECDFB 131309_	095310
CF2A	205 x 145 x 127 mm	–	9.4	3	JBDFB 201413_	ECDFB 201413_	095311
CF2B	270 x 190 x 120 mm	–	12.6	7	JBDFB 271912_	ECDFB 271912_	095313
Ex d IIB Enclosure in Cast Aluminum with Flanged Flameproof Joint							
 CF10B	260 x 270 x 208 mm	–	9	17	JBDAB 262720_	ECDAB 262720_	095403
CF20B	370 x 270 x 208 mm	–	13	24	JBDAB 372720_	ECDAB 372720_	095405
CF30B	340 x 320 x 230 mm	Yes	29	68	JBDAB 343223_	ECDAB 343223_	095406
CF40B	455 x 320 x 347 mm	Yes	50	126	JBDAB 453234_	ECDAB 453234_	095407
CF50B	455 x 440 x 347 mm	Yes	65	240	JBDAB 454434_	ECDAB 454434_	095409
CF60B	680 x 440 x 413 mm	Yes	106	378	JBDAB 684441_	ECDAB 684441_	095410
CF70B	680 x 640 x 413 mm	Yes	130	382	JBDAB 686441_	ECDAB 686441_	095412

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Zone 1 & 2 – 21 & 22

Ex II 2 GD

ATEX / IEC

IP66 – IK10

Class 1, Div. 1

Group B, C, D

NEMA 4X



Type	L	Overall Dimensions W	D	Hinged Door	Approximate Weight (kg)	Catalog Number	
	Ex d IIB+H2 Tri-Rated Enclosure in Cast Aluminum with Flanged Flameproof Joint						
	JBEW	343	227	156	–	10	ACSEW050903*
	JBEW	234	245	159	–	10	ACSEW060604*
	JBEW	315	264	165	–	9	ACSEW060804*
	JBEW	387	270	172	–	12	ACSEW061004*
	JBEW	422	270	162	–	11	ACSEW061204*
	JBEW	521	279	175	–	15	ACSEW061604*
	JBEW	403	311	254	–	16	ACSEW071106*
	JBEW	311	311	210	–	14	ACSEW080806*
	JBEW	368	318	216	–	16	ACSEW081006*
	JBEW	443	318	264	–	14	ACSEW081307*
	JBEW	394	353	221	–	10	ACSEW091105*
	JBEW	519	362	216	–	15	ACSEW091504*
	JBEW	376	376	232	–	20	ACSEW101006*
	JBEW	470	368	214	–	25	ACSEW101406*
	JBEW	470	368	245	–	27	ACSEW101408*
	JBEW	638	416	191	–	39	ACSEW112005*
	JBEW	746	400	259	–	33	ACSEW112406*
	JBEW	889	416	260	–	51	ACSEW113006*
	JBEW	442	442	235	Yes	29	ACSEW121206*
	JBEW	442	442	292	Yes	32	ACSEW121208*
	JBEW	584	432	232	Yes	41	ACSEW121806*
	JBEW	584	432	283	Yes	46	ACSEW121808*
	JBEW	730	425	283	Yes	63	ACSEW122408*
	JBEW	1080	457	265	Yes	86	ACSEW133806*
	JBEW	492	492	243	Yes	44	ACSEW141406*
	JBEW	492	492	294	Yes	48	ACSEW141408*
	JBEW	1092	540	306	Yes	113	ACSEW153707*
	JBEW	533	533	249	Yes	132	ACSEW161606*
	JBEW	533	533	315	Yes	60	ACSEW161608*
	JBEW	593	543	383	Yes	68	ACSEW161812*
	JBEW	711	533	308	Yes	82	ACSEW162408*
	JBEW	594	594	253	Yes	85	ACSEW181806*
	JBEW	594	594	303	Yes	90	ACSEW181808*
JBEW	762	608	309	Yes	102	ACSEW182408*	
JBEW	762	608	360	Yes	107	ACSEW182410*	
JBEW	880	575	308	Yes	120	ACSEW183008*	
JBEW	1061	597	313	Yes	68	ACSEW183608*	
JBEW	1061	597	364	Yes	122	ACSEW183610*	
JBEW	1216	607	302	Yes	141	ACSEW184207*	
JBEW	746	746	313	Yes	102	ACSEW242408*	
JBEW	889	737	330	Yes	191	ACSEW243008*	
JBEW	1092	781	332	Yes	191	ACSEW243608*	
JBEW	1092	781	332	Yes	204	ACSEW243610*	
JBEW	1118	914	349	Yes	272	ACSEW303808*	
JBEW	1118	914	510	Yes	363	ACSEW303816*	

* ATEX complete product certification will bear an X suffix.
ATEX U Component certification will bear an XU suffix.

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Ex II 2 GD

ATEX / IEC

IP66 – IK10

Ordering Information – Continued:

Type	Dimensions L x W x D (mm)	Hinged Door	Weight (kg)	Volume (dm ³)	JBD Series Catalog Number	ECD Series Catalog Number	Old Catalog Number
Ex d IIC Enclosure in Cast Aluminum with Spigot Flameproof Joint							
CF1E	140 x 162 x 100 mm	–	1.5	2.2	JBDAC 141610_	ECDAC 141610_	095306
CF1B	210 x 230 x 125 mm	–	4	5.5	JBDAC 212312_	ECDAC 212312_	095301
CF1A	295 x 265 x 195 mm	–	10	9.6	JBDAC 292619_	ECDAC 292619_	095303
CF1D	360 x 335 x 200 mm	–	10	14.6	JBDAC 363320_	ECDAC 363320_	095304



Ex d IIC Enclosure in Cast Aluminum with Screwed Flameproof Joint							
CF10C	230 x 215 x 238 mm	–	12	16	JBDAC 232124_	ECDAC 232124_	095402
CF30C	320 x 340 x 234 mm	–	28	68	JBDAC 323423_	ECDAC 323423_	095404
CF50C	440 x 455 x 345 mm	–	64	245	JBDAC 444534_	ECDAC 444534_	095408



Ex d IIC Enclosure in Cast Iron with Screwed Flameproof Joint

CF70C	680 x 640 x 450 mm	Yes	310	382	JBDFC 686445_	ECDFC 686445_	095411
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Options:
Component Certification “U” and/or Customized Enclosure
add digits as per examples:
JBDA 2627203 #
JBDA 2627203 U #

Compliances:

Hazardous Area	Gas	Dust
Certification Type	CF2/A/B/C	
Zones	1–2	21–22
Conforming to ATEX 94/9/CE	CE 0081 Ex II 2 G	CE 0081 Ex II 2 D
Symbol of Protection ATEX	Ex d IIB	Ex tD A21
Symbol of Protection IEC		
T Rating	T6 to T2	NA
Surface Temperature	NA	T95°C to T290°C
Ambient Temperature	-40°C to +55°C	
CE Declaration of Conformity	50254	
ATEX Certificate	LCIE 03 ATEX 6061X	
IEC Certificate	LCIE Ex 03.006X	
Other Certifications	GOST	
Index of Protection (solid and liquid)	IP66	
Impact resistance (shock)	IK10	
Internal Volume	≤ 2 dm ³ (2 liters)	

Hazardous Area	Gas	Dust
Certification Type	CF10B to CF70B CF10C to CF70C	
Zones	1–2	21–22
Conforming to ATEX 94/9/CE	CE 0081 Ex II 2 G	CE 0081 Ex II 2 D
Symbol of Protection ATEX	Ex d IIB (CF10B to CF70B)	Ex tD A21
Symbol of Protection IEC	Ex d IIC (CF10C to CF70C)	
T Rating	T6 to T4	NA
Surface Temperature	NA	T80°C to T130°C
Ambient Temperature	-20°C to +55°C (CF30B, CF70B, CF70C) -40°C to +55°C (CF10B, CF20B, CF40B, CF50B, CF10C, CF30C, CF50C) -50°C to +55°C (CF60B)	
CE Declaration of Conformity	50229	
ATEX Certificate	LCIE 02 ATEX 6057X	
IECEX Certificate	IECEX LCI 08.0023X	
Other Certifications	GOST	
Index of Protection (solid and liquid)	IP66	
Impact Resistance (shock)	IK10	
Internal Volume	> 2 dm ³ (2 liters)	

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Zone 1 & 2 – 21 & 22

II 2 GD

ATEX / IEC

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Compliances – Continued:

Hazardous Area	Gas	Dust
Certification Type	CF1A/B/D/E	
Zones	1–2	21–22
Conforming to ATEX 94/9/CE	CE 0081 II 2 G	CE 0081 II2 D
Symbol of Protection ATEX	Ex d IIB	Ex tD A21
Symbol of Protection IEC		
T Rating	T6 to T2	NA
Surface Temperature	NA	T95°C to T290°C
Ambient Temperature	-40°C to +55°C	
CE Declaration of Conformity	50257	
ATEX Certificate	LCIE 03 ATEX 6044X	
IEC Certificate	LCIE Ex 03.003X	
Other Certifications	GOST	
Index of Protection (solid and liquid)	IP66	
Impact resistance (shock)	IK10	
Internal Volume	> 2 dm ³ (2 liters) — CF1A/B/D ≤ 2 dm ³ (2 liters) — CF1E	

Hazardous Area	Gas	Dust
Certification Type	JBEW	
Zones	1–2	21–22
Conforming to ATEX 94/9/CE	CE 0081 II 2 G	CE 0081 II2 D
Symbol of Protection ATEX	Ex d IIB + H ₂	Ex tD A21
Symbol of Protection IEC		
T Rating	T6 to T4	NA
Surface Temperature	NA	T80°C to T130°C
Ambient Temperature	-40°C to +55°C	
CE Declaration of Conformity	50279	
ATEX Certificate	LCIE 07 ATEX 6069X	
IEC Certificate	–	
Other Certifications	–	
Index of Protection (solid and liquid)	IP66	
Impact resistance (shock)	IK10	
Internal Volume	> 2 dm ³ (2 liters)	

Hazardous Area	Gas	Dust
Certification Type	CF10BU to CF70BU	
Zones	1–2	21–22
Conforming to ATEX 94/9/CE	0081 II 2 G	0081 II2 D
Symbol of Protection ATEX	Ex d IIB	Ex tD A21
Symbol of Protection IEC		
T Rating	NA	NA
Surface Temperature	NA	NA
Ambient Temperature	-20°C to +55°C (CF30BU, CF60BU, CF70BU) -40°C to +55°C (CF10BU, CF20BU, CF40BU, CF50B)	
CE Declaration of Conformity	5C238	
ATEX Certificate	LCIE 07 ATEX 0005U	
IEC Certificate	–	
Other Certifications	–	
Index of Protection (solid and liquid)	IP66	
Impact Resistance (shock)	IK10	
Internal Volume	> 2 dm ³ (2 liters)	

Hazardous Area	Gas	Dust	
Certification Type	JBEW U2		
Zones	1–2	21–22	
Conforming to ATEX 94/9/CE	0081ⓈII 2 G	0081ⓈII2 D	
Symbol of Protection ATEX	Ex d IIB + H ₂	Ex tD A21	
Symbol of Protection IEC			
T Rating	NA		
Surface Temperature	NA		
Ambient Temperature	-40°C to +55°C		
CE Declaration of Conformity	5C239		
ATEX Certificate	LCIE 06 ATEX 0010U		
IEC Certificate	LCIE Ex 08.001U		
Other Certifications	–		
Index of Protection (solid and liquid)	IP66		
Impact Resistance (shock)	IK10		
Internal Volume	> 2 dm ³ (2 liters)		

Standards:

Ex Standards	EN / IEC 60079-0; 60079-1; 61241-0; 61241-1
Product Standards	–
EMC Standards	–
Other Standards	EN / IEC 60529 (IP); 62262 (IK)

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Zone 1 & 2 – 21 & 22

II 2 GD

ATEX / IEC

IP66 – IK10

Technical Data:

A

D (L)

(W)

C

B

Type	Dimensions L x W x D (mm)	A M20	Maximum Quantity of Threaded Entries Per Side			Max. Size (1)	Rail Length Capacity for Terminal Block (L) (W)	
		B M20	C M20	D M20				
Ex d IIB Enclosure in Cast Iron								
CF2C	130 x 130 x 90 mm	1	2	1	2	M25	64 mm	
CF2A	205 x 145 x 127 mm	1	3	1	1	M32	120 mm	
CF2B	270 x 190 x 120 mm	2	4	2	4	M50	162 mm	
Ex d IIB Enclosure in Cast Aluminum								
CF10B	260 x 270 x 208 mm	8	6	8	6	M75	155 mm	148 mm
CF20B	370 x 270 x 208 mm	6	12	6	12	M75	260 mm	148 mm
CF30B	340 x 320 x 230 mm	8	8	8	8	M75	260 mm	218 mm
CF40B	455 x 320 x 347 mm	16	28	16	28	M75	330 mm	200 mm
CF50B	455 x 440 x 347 mm	26	26	26	26	M75	295 mm	330 mm
CF60B	680 x 440 x 413 mm	26	51	26	51	M100	540 mm	300 mm
CF70B	680 x 640 x 413 mm	38	42	38	42	M100	530 mm	530 mm
Ex d IIC Enclosure in Cast Iron								
CF1E	140 x 162 x 100 mm	1	2	1	2	M32		99 mm
CF1B	210 x 230 x 125 mm	1	3	2	3	M32		155 mm
CF1A	295 x 265 x 195 mm	6	6	5	6	M63	190 mm	190 mm
CF1D	360 x 335 x 200 mm	16	17	15	17	M63	180 mm	250 mm
Ex d IIC Enclosure in Cast Aluminum								
CF10C	230 x 215 x 238 mm	5	5	5	5	M75	120 mm	105 mm
CF30C	320 x 340 x 234 mm	8	8	8	8	M75	260 mm	215 mm
CF50C	440 x 455 x 345 mm	26	26	26	26	M75	295 mm	330 mm

(1) Please consult us for quantity.

Dimensions (mm):

CF2C Type

CF2A & CF2B Type

Type	A	B	C	D	E	F	G	H	K	Ø
CF2A	202	144	96	156	154	65.5	98	156	10	7
CF2B	267	187	115	202	200	81	122	202	12	7

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Zone 1 & 2 – 21 & 22

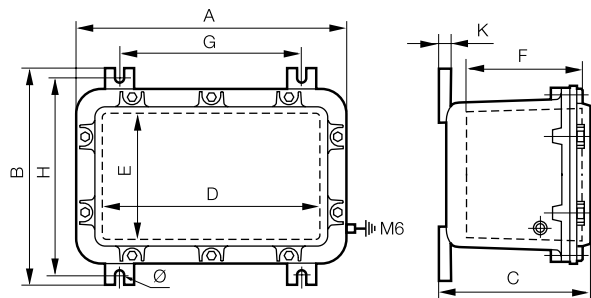
Ex II 2 GD

ATEX / IEC

IP66 – IK10

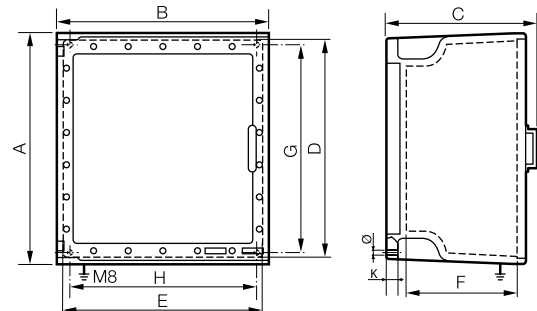
Dimensions (mm) – Continued:

CF10B & CF20B Type



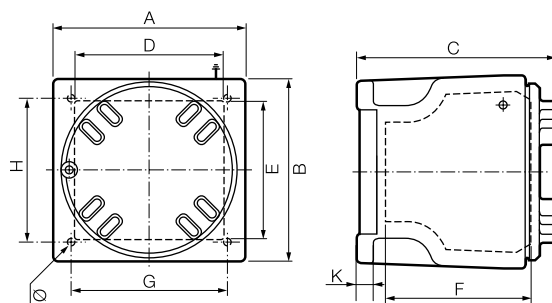
Type	A	B	C	D	E	F	G	H	K	Ø
CF10B	259	270	207	190	175	161	140	245	15	11
CF20B	369	270	207	300	175	161	250	245	15	11

CF30B & CF70B Type



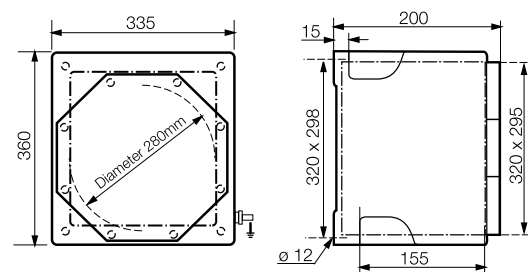
Type	A	B	C	D	E	F	G	H	K	Ø
CF30B	340	320	238	285	265	164	298	278	20	9
CF40B	455	320	377	395	256	253	391	256	25	11
CF50B	455	440	380	400	376	253	391	376	25	11
CF60B	680	440	445	610	376	292	616	376	25	14
CF70B	680	640	445	610	576	292	616	576	25	14

CF10C to CF70C Type



Type	A	B	C	D	E	F	G	H	K	Ø
CF10C	230	215	238	180	165	175	188	173	20	9
CF30C	320	340	234	271	290	154	278	298	20	9
CF50C	440	455	345	386	401	241	376	391	25	11
CF70C	680	640	450	616	576	290	616	576	25	14

CF1D Type



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Zone 1 & 2 – 21 & 22

II 2 GD

ATEX / IEC

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JBEW Type:

Catalog Number	Mounting Dimensions				Inside Dimensions			
	A	B	C	D	E	F	G	I
ACSEW050903	102	N/A	279	N/A	129	241	89	51
ACSEW060604	N/A	222	N/A	308	152	152	101	61
ACSEW060804	116	232	268	114	152	203	95	64
ACSEW061004	140	N/A	334	N/A	156	273	97	51
ACSEW061204	N/A	232	N/A	216	156	308	103	57
ACSEW061604	152	N/A	457	N/A	165	406	105	59
ACSEW071106	162	N/A	343	N/A	188	289	149	86
ACSEW080806	114	N/A	273	N/A	203	203	146	83
ACSEW081006	178	273	318	165	203	254	146	89
ACSEW081307	N/A	254	N/A	216	203	332	89	70
ACSEW091105	184	300	334	217	238	283	122	83
ACSEW091504	184	300	454	338	241	395	121	76
ACSEW101006	165	N/A	330	N/A	260	260	146	86
ACSEW101406	178	330	422	270	254	356	149	80
ACSEW101408	N/A	330	N/A	270	254	356	197	113
ACSEW112005	260	368	575	429	289	508	124	89
ACSEW112406	216	359	689	508	273	619	152	102
ACSEW113006	241	384	835	692	286	759	157	106
ACSEW121206	219	397	397	219	311	311	146	95
ACSEW121208	219	397	397	219	311	311	197	121
ACSEW121806	N/A	400	N/A	359	311	464	146	89
ACSEW121808	N/A	400	N/A	359	311	464	222	108
ACSEW122408	N/A	400	N/A	467	305	610	197	108
ACSEW133806	410	302	1035	857	346	962	156	110
ACSEW141406	248	451	451	248	375	375	146	99
ACSEW141408	248	451	451	248	375	375	197	102
ACSEW153707	349	508	1057	813	397	946	189	133
ACSEW161606	279	502	502	279	419	419	146	99
ACSEW161608	279	502	502	279	419	419	213	124
ACSEW161812	305	483	533	356	413	464	302	178
ACSEW162408	N/A	502	N/A	467	413	616	210	135
ACSEW181806	330	553	553	330	464	464	146	105
ACSEW181808	330	553	553	330	464	464	197	114
ACSEW182408	410	553	705	467	464	614	197	129
ACSEW182410	410	553	705	467	464	614	248	146
ACSEW183008	N/A	553	N/A	584	464	769	197	121
ACSEW183608	279	553	1003	737	464	927	197	121
ACSEW183610	279	553	1003	737	464	927	248	139
ACSEW184207	406	584	1153	975	473	1073	178	127
ACSEW242408	467	711	711	467	622	622	197	127
ACSEW243008	457	711	864	584	610	762	203	133
ACSEW243608	464	711	1016	737	616	921	197	130
ACSEW243610	464	711	1016	737	616	921	248	152
ACSEW303808	N/A	889	N/A	736	762	965	197	156
ACSEW303816	N/A	889	N/A	736	762	965	197	156

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Zone 1 & 2 – 21 & 22

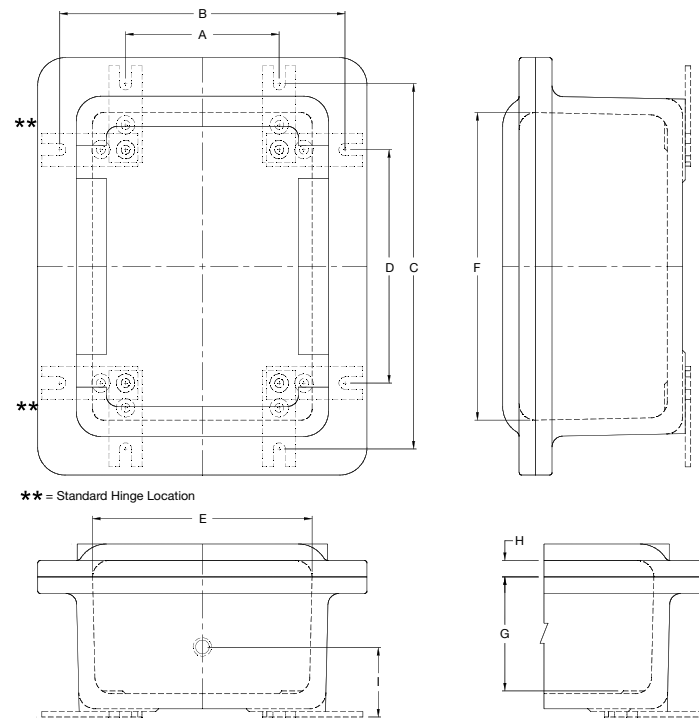
Ex II 2 GD

ATEX / IEC

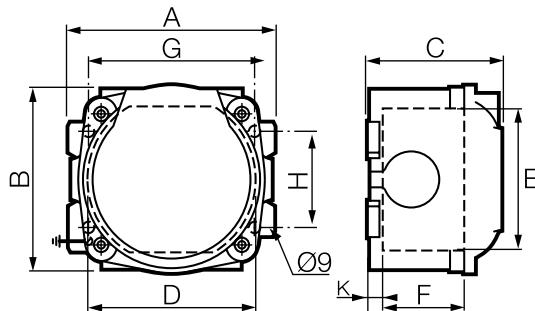
IP66 – IK10

Dimensions (mm) – Continued:

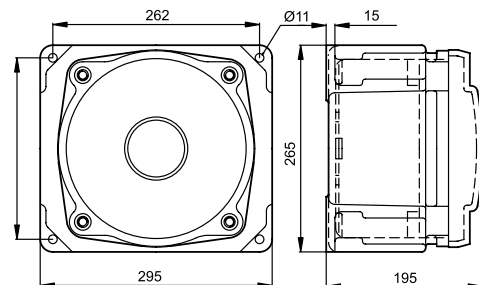
JBEW Type



CF1B & CF1E Type



CF1A Type



Type	A	B	C	D	E	F	G	H	K	Ø
CF1B	230	210	125	175	175	90	210	100	15	9
CF1E	140	162	121	120	120	80	120	120	12	9