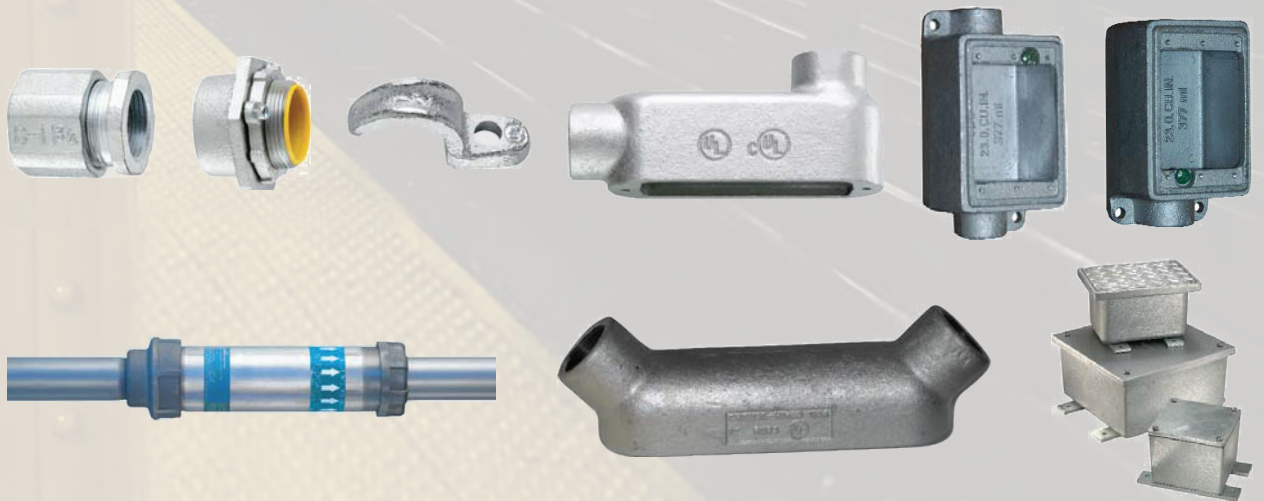


# Hot dip galvanized products

Designed to provide superior corrosion protection from the harshest environments.



*Powering Business Worldwide*



# Hot Dipped Galvanized Products

Designed to provide superior corrosion protection from harsh environmental conditions.

Superior corrosion resistance hot dipped galvanized products provide another corrosion resistant option (in addition to stainless steel, epoxy coating, etc.) to our current offering, allowing Eaton's Crouse-Hinds to further expand our corrosion resistant capabilities.

## Hot dipped galvanized finish:

Hot dip galvanizing is a form of galvanization. It is the technology of coating by passing the product through a molten bath of zinc at high temperature. The process of hot-dip galvanizing results in a metallurgical bond between zinc and steel with a series of distinct iron-zinc alloys. The hot dip zinc coating produces a much thicker, durable coating which prevents corrosion of the protected product by forming a physical barrier and by acting as a sacrificial anode if this barrier is damaged.

## Application process:

The product is skimmed (to remove surface oils), run through an acid wash, water washed, run through a dip fluxing solvent (to enhance the coating adhesion), dry preheated (typically 120°C-180°C), hot dip galvanized (typically 450°C-480°C), water cooled and then passivated.

## Certifications & compliances:

- Conforms to finish thickness per ASTM A123/A123M
- UL514B
- NEMA FB1

## Hot dipped galvanized products are used/installed:

- To provide corrosion protection against road salt and other harsh environmental factors.
- To meet Department of Transportation, mass transit or other project specifications.
- For infrastructure projects, including bridges, subways, railways, and other modes of transportation. Many U.S. roads, bridges, and tollways are decades old and in need of repair. Many of these rework/rebuild projects require hot dip galvanized products.
- For governmental use (many government projects, federal and/or state require the use of hot dipped galvanized products).

# Form 5 conduit outlet bodies, covers & gaskets

## Applications:

**Form 5 malleable iron conduit bodies are used in conduit systems to:**

- Act as pull outlets for conductors being installed
- Provide openings for making splices and taps in conductors
- Act as mounting outlets for lighting fixtures and wiring devices
- Connect conduit sections
- Provide taps for branch conduit runs
- Make 90 degree bends in conduit runs
- Provide for access to conductors for maintenance and future system changes

## Features:

- Interchangeable with Appleton Form 35 conduit bodies
- Built-in rollers on 1¼" to 4" C and LB bodies to facilitate wire pulling
- Smooth and rounded integral bushings for protection of wire insulation
- Solid neoprene gaskets may be converted to open type by pulling out perforated center section
- Stainless steel cover screws
- Domed sheet steel covers provide additional cubic capacity
- Integral gasket cover provides NEMA 4 rating

Form 35 is a registered trademark of Appleton Electric/EGS.

## Certifications and compliances:

- UL File No. E-15022
- UL Standard 514B
- cUL to CSA Standard C22.2 No. 18

## Standard materials:

- Bodies – malleable iron
- Gaskets – neoprene
- Covers – sheet steel or malleable
- Cover screws – stainless steel

## Standard finishes:

- Malleable iron – hot dip galvanized
- Neoprene – natural
- Sheet steel – electrogalvanized
- Stainless steel – natural





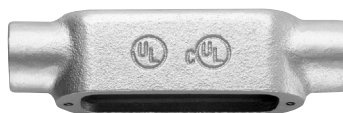
# Form 5



**Type LB**

Cat. #	Size	Internal vol. in cu. in.	Unit qty.	Wt. lbs. per 100	Max. no. of conductors
LB50M HDG	½"	4.5	10	71	N/A
LB75M HDG	¾"	7.5	10	97	3 #6 AWG
LB100M HDG	1"	12.5	10	143	3 #4 XHHW
LB125M HDG*	1¼"	32.0	5	287	3 #2 XHHW
LB150M HDG*	1½"	35.3	5	331	3 #1/0 XHHW
LB200M HDG*	2"	73.0	1	534	3 #4/0 XHHW
LB250M HDG*	2½"	142.0	1	1105	3 #300MCM XHHW
LB300M HDG*	3"	173.0	1	1160	3 #400MCM XHHW
LB350M HDG*	3½"	292.0	1	1989	3 #500MCM XHHW
LB400M HDG*	4"	324.0	1	2099	3 #500MCM XHHW

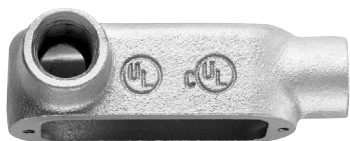
\*1¼" - 4" LB and C bodies supplied with built-in rollers to facilitate wire pulling.



**Type C**

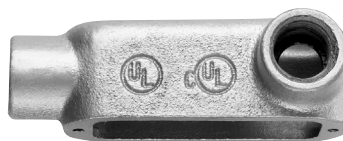
Cat. #	Size	Internal vol. in cu. in.	Unit qty.	Wt. lbs. per 100	Max. no. of conductors
C50M HDG	½"	4.5	10	98	N/A
C75M HDG	¾"	7.5	10	118	3 #6 AWG
C100M HDG	1"	12.5	10	170	3 #4 XHHW
C125M HDG*	1¼"	35.0	5	309	3 #2 XHHW
C150M HDG*	1½"	35.3	5	368	3 #1/0 XHHW
C200M HDG*	2"	75.0	1	552	3 #4/0 XHHW
C250M HDG*	2½"	153.0	1	1216	3 #300MCM XHHW
C300M HDG*	3"	181.0	1	1437	3 #300MCM XHHW
C350M HDG*	3½"	290.0	1	2210	3 #350MCM XHHW
C400M HDG*	4"	320.0	1	2321	3 #350MCM XHHW

\*1¼" - 4" LB and C bodies supplied with built-in rollers to facilitate wire pulling.



**Type LL**

Cat. #	Size	Internal vol. in cu. in.	Unit qty.	Wt. lbs. per 100	Max. no. of conductors
LL50M HDG	½"	4.5	10	76	N/A
LL75M HDG	¾"	7.5	10	95	3 #6 AWG
LL100M HDG	1"	12.5	10	138	3 #4 XHHW
LL125M HDG	1¼"	32.0	5	309	3 #2 XHHW
LL150M HDG	1½"	33.0	5	332	3 #2 XHHW
LL200M HDG	2"	68.0	1	497	3 #4/0 XHHW
LL250M HDG	2½"	142.0	1	1105	3 #300MCM XHHW
LL300M HDG	3"	173.0	1	1437	3 #350MCM XHHW
LL350M HDG	3½"	292.0	1	2321	3 #350MCM XHHW
LL400M HDG	4"	324.0	1	2431	3 #350MCM XHHW



**Type LR**

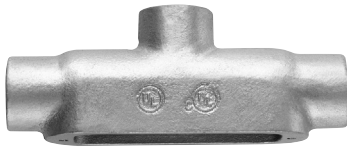
Cat. #	Size	Internal vol. in cu. in.	Unit qty.	Wt. lbs. per 100	Max. no. of conductors
LR50M HDG	½"	4.5	10	71	N/A
LR75M HDG	¾"	7.5	10	100	3 #6 AWG
LR100M HDG	1"	12.5	10	157	3 #4 XHHW
LR125M HDG	1¼"	32.0	5	332	3 #2 XHHW
LR150M HDG	1½"	35.3	5	345	3 #2 XHHW
LR200M HDG	2"	68.0	1	626	3 #4/0 XHHW
LR250M HDG	2½"	142.0	1	1105	3 #300MCM XHHW
LR300M HDG	3"	173.0	1	1437	3 #350MCM XHHW
LR350M HDG	3½"	292.0	1	2321	3 #350MCM XHHW
LR400M HDG	4"	324.0	1	2500	3 #350MCM XHHW



**Type T**

Cat. #	Size	Internal vol. in cu. in.	Unit qty.	Wt. lbs. per 100	Max. no. of conductors
T50M HDG	½"	6.0	10	111	N/A
T75M HDG	¾"	9.5	10	137	3 #6 AWG
T100M HDG	1"	15.0	10	196	3 #4 XHHW
T125M HDG	1¼"	33.0	5	332	3 #2 XHHW
T150M HDG	1½"	36.0	5	368	3 #1 XHHW
T200M HDG	2"	76.0	1	663	3 #2/0 XHHW
T250M HDG	2½"	142.0	1	1271	3 #300MCM XHHW
T300M HDG	3"	173.0	1	1547	3 #300MCM XHHW
T350M HDG	3½"	292.0	1	2542	3 #350MCM XHHW
T400M HDG	4"	324.0	1	2542	3 #350MCM XHHW

# Form 5



## Type TB

Cat. #	Size	Internal vol. in cu. in.	Unit qty.	Wt. lbs. per 100	Max. no. of conductors
TB50M HDG	½"	6.0	10	88	N/A
TB75M HDG	¾"	9.5	10	120	3 #6 AWG
TB100M HDG	1"	15.0	10	197	3 #6 AWG
TB125M HDG	1¼"	33.0	5	342	3 #6 AWG
TB150M HDG	1½"	36.0	5	420	3 #4 XHHW
TB200M HDG	2"	76.0	1	691	3 #1/0 XHHW



## Type X

Cat. #	Size	Internal vol. in cu. in.	Unit qty.	Wt. lbs. per 100	Max. no. of conductors
X50M HDG	½"	6.0	10	139	N/A
X75M HDG	¾"	9.5	10	172	3 #6 AWG
X100M HDG	1"	15.0	10	247	3 #4 XHHW
X125M HDG	1¼"	33.0	5	416	3 #2 XHHW
X150M HDG	1½"	36.0	5	463	3 #1/0 XHHW
X200M HDG	2"	76.0	1	833	3 #2/0 XHHW



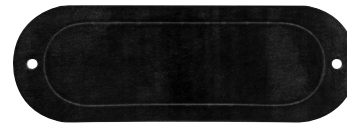
## Sheet steel covers

Cat. #	Size	Unit qty.	Wt. lbs. per 100
K50S	½"	50	9
K75S	¾"	50	13
K100S	1"	25	19
K125S	1¼" and 1½"	20	31
K200S	2"	5	50
K250S	2½" and 3"	5	94
K350S	3½" and 4"	5	138



## Cast iron covers

Cat. #	Size	Unit qty.	Wt. lbs. per 100
K50CM HDG	½"	50	23
K75CM HDG	¾"	50	31
K100CM HDG	1"	25	41
K125CM HDG	1¼" and 1½"	20	91
K200CM HDG	2"	5	208
K250CM HDG	2½" and 3"	5	358
K350CM HDG	3½" and 4"	5	550



## Neoprene gaskets – perforated center

Cat. #	Size	Unit qty.	Wt. lbs. per 100
GK50N	½"	100	2.0
GK75N	¾"	100	2.0
GK100N	1"	50	2.9
GK125N	1¼" and 1½"	25	5.0
GK200N	2"	25	8.0
GK250N	2½" and 3"	25	16.0
GK350N	3½" and 4"	25	26.4



## Integral gasket cover – sheet steel

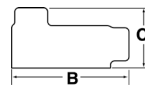
Cat. #	Size	Unit qty.	Wt. lbs. per 100
K50SG	½"	50	14
K75SG	¾"	50	16
K100SG	1"	25	46
K125SG	1¼" and 1½"	20	62
K200SG	2"	5	70
K250SG	2½" and 3"	5	190
K350SG	3½" and 4"	5	340

# Form 5

Dimensions (in inches):

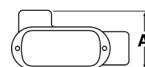
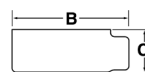
## Type LB

Size	½	¾	1	1¼	1½	2	2½	3	3½	4
A	1.34	1.50	1.80	2.60	2.60	3.12	4.31	4.31	5.62	5.62
B	4.68	5.37	6.20	8.12	8.12	10.50	13.60	13.87	16.25	16.60
C	2.05	2.25	2.65	2.75	2.83	4.42	5.40	5.90	6.90	7.21



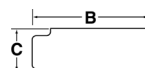
## Type LL

Size	½	¾	1	1¼	1½	2	2½	3	3½	4
A	2.05	2.25	2.65	2.75	3.50	4.12	5.71	5.87	7.13	7.13
B	4.68	5.37	6.20	8.12	8.12	10.50	13.60	13.87	16.50	16.50
C	1.37	1.70	1.90	2.75	2.83	3.31	3.90	4.75	6.81	7.19



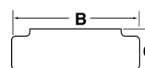
## Type LR

Size	½	¾	1	1¼	1½	2	2½	3	3½	4
A	2.05	2.25	2.65	2.75	3.50	4.12	5.71	5.87	6.10	6.95
B	4.68	5.37	6.20	8.12	8.12	10.50	13.60	13.87	6.25	16.25
C	1.37	1.70	1.90	2.75	2.83	3.31	3.90	4.75	5.62	5.62



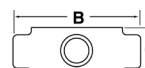
## Type C

Size	½	¾	1	1¼	1½	2	2½	3	3½	4
A	1.34	1.50	1.80	2.60	2.60	3.12	4.31	4.31	4.88	4.88
B	5.38	6.00	7.05	9.00	9.00	11.50	15.00	15.12	18.13	18.13
C	1.37	1.70	1.90	2.75	2.83	3.31	3.90	4.75	5.19	5.56



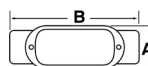
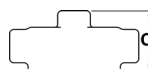
## Type T

Size	½	¾	1	1¼	1½	2	2½	3	3½	4
A	2.05	2.25	2.65	2.75	3.50	4.12	5.71	5.87	6.81	7.15
B	5.38	6.00	7.05	9.00	9.00	11.50	15.00	15.12	18.13	18.13
C	1.34	1.50	1.80	2.60	2.60	3.12	4.31	4.31	5.19	5.56



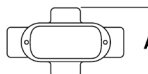
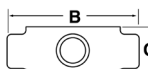
## Type TB

Size	½	¾	1	1¼	1½	2
A	1.34	1.50	1.80	2.60	2.60	3.12
B	5.38	6.00	7.05	9.00	9.00	11.50
C	2.05	2.25	2.65	2.75	2.83	4.42



## Type X

Size	½	¾	1	1¼	1½	2
A	2.79	2.93	3.56	4.43	4.43	5.40
B	5.41	6.08	7.10	9.10	9.10	11.75
C	1.75	1.97	2.25	2.55	2.75	3.45



# Mogul bodies, covers and gaskets – hot dip galvanized

## Applications:

- Mogul bodies are installed in conduit systems to:
- Act as pull outlets for conductors that are stiff, due to large size or type of insulation
- Provide the longer openings needed when pulling large conductors
- Prevent sharp bends and kinks in large conductors (protects insulation during installation)
- Provide ample openings for splices and taps
- Provide access to wiring for maintenance and future system changes

## Features:

Mogul bodies have:

- Long openings
- Provision for easy bends
- Taper tapped hubs with integral bushings
- Stainless steel cover screws
- Covers with integral gasket are provided with bodies
- Pre-installed rollers on select shapes and sizes (LB and C shapes, 1½" to 4") to aid in wire pulling

## BUBXL moguls:

- Larger internal volume provides additional space for bending and pulling large conductors (complies with the 6X wire bending rule)
- Rollers improve the ability to pull larger conductors and protect the insulation when the wire is being pulled, greatly reducing cut cable incidents
- Cover design takes less time to install and can be used as a solid or with the center removed for more internal volume
- Covers with integral gasket are provided with bodies

## Certifications and compliances:

UL standard: 514B

Fed. Spec.: W-C-586d

CSA standard: C22.2 No. 18

## Standard material:

Feraloy iron alloy

## Standard finish:

Feraloy – hot dip galvanized

## Ordering information:



### BC

Hub size	Cat. #
1"	BC3 HDG CG
1¼"	BC4 HDG CG
1½"	BC5 HDG WR CG
2"	BC6 HDG WR CG
2½"	BC7 HDG WR CG
3"	BC8 HDG WR CG
3½"	BC9 HDG WR CG
4"	BC10 HDG WR CG



### BLB\*

Hub size	Cat. #
1"	BLB3 HDG CG
1¼"	BLB4 HDG CG
1½"	BLB5 HDG WR CG
2"	BLB6 HDG WR CG
2½"	BLB7 HDG WR CG
3"	BLB8 HDG WR CG
3½"	BLB9 HDG WR CG
4"	BLB10 HDG WR CG



### BUB

Hub size	Cat. #
1"	BUB3 HDG CG
1¼"	BUB4 HDG CG
1½"	BUB5 HDG CG
2"	BUB6 HDG CG
2½"	BUB7 HDG CG
3"	BUB8 HDG CG
3½"	BUB9 HDG CG
4"	BUB10 HDG CG



### BT

Hub size	Cat. #
1"	BT3 HDG CG
1¼"	BT4 HDG CG
1½"	BT5 HDG CG
2"	BT6 HDG CG
2½"	BT7 HDG CG
3"	BT8 HDG CG
3½"	BT9 HDG CG
4"	BT10 HDG CG



### BUBXL (extra large) with cover and gasket

Hub size	Cat. #
2"	BUBXL6 HDG
3"	BUBXL8 HDG



### Blank replacement covers Feraloy iron alloy (all B series moguls except BUBXL)

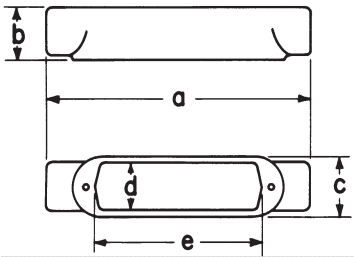
Size	Cat. # With round neoprene gasket
1" or 1¼"	BG48 HDG
1½" or 2"	BG68 HDG
2½" or 3"	BG88 HDG
3½" or 4"	BG98 HDG

\*For 5" size, use catalog number LBD012. For 6" size, use catalog number LBD014.

# Mogul bodies, covers and gaskets – hot dip galvanized

## Dimensions (in inches):

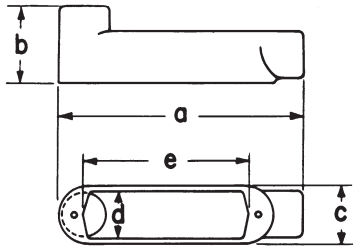
BC



BC

Size	1"	1¼"	1½"	2"	2½"	3"	3½"	4"
a	9 <sup>9</sup> / <sub>16</sub>	9 <sup>9</sup> / <sub>16</sub>	13 <sup>3</sup> / <sub>4</sub>	13 <sup>3</sup> / <sub>4</sub>	18 <sup>3</sup> / <sub>8</sub>	18 <sup>3</sup> / <sub>8</sub>	23 <sup>3</sup> / <sub>4</sub>	23 <sup>3</sup> / <sub>4</sub>
b	1 <sup>7</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>16</sub>	2 <sup>9</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>8</sub>	3 <sup>5</sup> / <sub>8</sub>	4 <sup>3</sup> / <sub>8</sub>	4 <sup>7</sup> / <sub>8</sub>	5 <sup>3</sup> / <sub>8</sub>
c	2 <sup>3</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>16</sub>	3	3	4 <sup>1</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>4</sub>
d	1 <sup>7</sup> / <sub>8</sub>	1 <sup>7</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>8</sub>	3 <sup>13</sup> / <sub>16</sub>	3 <sup>13</sup> / <sub>16</sub>	4 <sup>3</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>
e	6	6	10	10	15	15	20	20

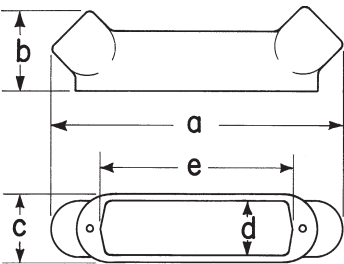
BLB



BLB

Hub size	1"	1¼"	1½"	2"	2½"	3"	3½"	4"
a	8 <sup>19</sup> / <sub>32</sub>	8 <sup>19</sup> / <sub>32</sub>	12 <sup>11</sup> / <sub>16</sub>	12 <sup>11</sup> / <sub>16</sub>	16 <sup>29</sup> / <sub>32</sub>	16 <sup>29</sup> / <sub>32</sub>	22 <sup>1</sup> / <sub>8</sub>	22 <sup>1</sup> / <sub>8</sub>
b	2 <sup>27</sup> / <sub>32</sub>	3 <sup>9</sup> / <sub>32</sub>	3 <sup>5</sup> / <sub>8</sub>	4 <sup>3</sup> / <sub>16</sub>	5 <sup>3</sup> / <sub>32</sub>	5 <sup>27</sup> / <sub>32</sub>	6 <sup>1</sup> / <sub>2</sub>	7
c	2 <sup>3</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>16</sub>	3	3	4 <sup>1</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>4</sub>
d	1 <sup>7</sup> / <sub>8</sub>	1 <sup>7</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>8</sub>	3 <sup>13</sup> / <sub>16</sub>	3 <sup>13</sup> / <sub>16</sub>	4 <sup>3</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>
e	6	6	10	10	15	15	20	20

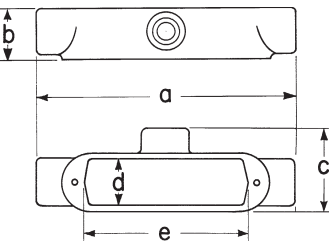
BUB



BUB

Size	1	1¼	1½	2	2½	3	3½	4
a	9 <sup>9</sup> / <sub>16</sub>	9 <sup>5</sup> / <sub>16</sub>	13 <sup>1</sup> / <sub>2</sub>	13 <sup>1</sup> / <sub>2</sub>	17 <sup>3</sup> / <sub>4</sub>	17 <sup>7</sup> / <sub>8</sub>	23 <sup>3</sup> / <sub>8</sub>	23 <sup>1</sup> / <sub>4</sub>
b	2 <sup>11</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>8</sub>	4 <sup>13</sup> / <sub>16</sub>	5 <sup>5</sup> / <sub>8</sub>	6 <sup>3</sup> / <sub>8</sub>	6 <sup>13</sup> / <sub>16</sub>
c	2 <sup>3</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>16</sub>	3	3	4 <sup>1</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>4</sub>
d	1 <sup>7</sup> / <sub>8</sub>	1 <sup>7</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>8</sub>	3 <sup>13</sup> / <sub>16</sub>	3 <sup>13</sup> / <sub>16</sub>	4 <sup>3</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>
e	6	6	10	10	15	15	20	20

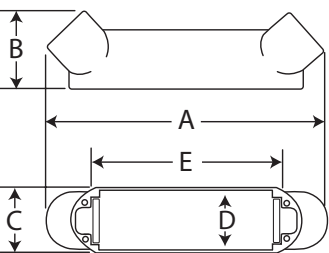
BT



BT

Size	1	1¼	1½	2	2½	3	3½	4
a	9 <sup>9</sup> / <sub>16</sub>	9 <sup>9</sup> / <sub>16</sub>	13 <sup>3</sup> / <sub>4</sub>	13 <sup>3</sup> / <sub>4</sub>	18 <sup>3</sup> / <sub>8</sub>	18 <sup>3</sup> / <sub>8</sub>	23 <sup>3</sup> / <sub>4</sub>	23 <sup>3</sup> / <sub>4</sub>
b	1 <sup>7</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>16</sub>	2 <sup>9</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>8</sub>	3 <sup>5</sup> / <sub>8</sub>	4 <sup>3</sup> / <sub>8</sub>	4 <sup>7</sup> / <sub>8</sub>	5 <sup>3</sup> / <sub>8</sub>
c	3 <sup>5</sup> / <sub>32</sub>	3 <sup>5</sup> / <sub>32</sub>	4 <sup>1</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>16</sub>	5 <sup>19</sup> / <sub>32</sub>	5 <sup>23</sup> / <sub>32</sub>	6 <sup>7</sup> / <sub>8</sub>	6 <sup>7</sup> / <sub>8</sub>
d	1 <sup>7</sup> / <sub>8</sub>	1 <sup>7</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>8</sub>	3 <sup>13</sup> / <sub>16</sub>	3 <sup>13</sup> / <sub>16</sub>	4 <sup>3</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>
e	6	6	10	10	15	15	20	20

BUBXL



BUBXL

Size	2"	3"
a	15 <sup>5</sup> / <sub>25</sub>	22 <sup>17</sup> / <sub>20</sub>
b	4 <sup>7</sup> / <sub>100</sub>	5 <sup>29</sup> / <sub>50</sub>
c	3	4 <sup>1</sup> / <sub>4</sub>
d	2 <sup>1</sup> / <sub>4</sub>	3 <sup>19</sup> / <sub>50</sub>
e	12 <sup>1</sup> / <sub>4</sub>	15 <sup>1</sup> / <sub>4</sub>



# Three-piece couplings, clampbacks & clamps

## Three-piece conduit couplings – hot dip galvanized malleable iron

### Applications:

- Used to join two lengths of threaded conduit; couples conduit when conduit cannot be turned

### Standard material:

- Malleable iron

### Standard finish:

- Hot dip galvanized

### Malleable iron (concrete tight)

UL File No. E-19189

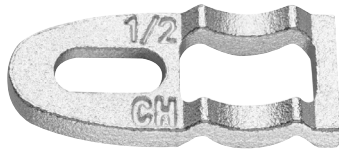


## Clampbacks/spacers – hot dip galvanized iron

### Applications:

- To provide space between conduit and mounting surface

UL File No. E-184283



## Clamps – hot dip galvanized iron

### Applications:

- To support rigid conduit and IMC to mounting surface

UL File No. E-184283



### Three-piece conduit coupling

Cat. #	Size	Unit qty.	Wt. lbs. per 100
190M HDG	½"	25	23
191 HDG	¾"	25	35
192 HDG	1"	10	60
193 HDG	1¼"	5	91
194 HDG	1½"	5	167
195 HDG	2"	5	215
196 HDG	2½"	2	430
197 HDG	3"	1	463
198 HDG	3½"	1	655
199 HDG	4"	1	800
188 HDG*	5"	1	1200
189 HDG*	6"	1	2100

\*Not UL listed.



### Clampback/spacers

Cat. #	Size	Unit qty.	Wt. lbs. per 100
CB1 HDG	½"	25	8
CB2 HDG	¾"	25	10
CB3 HDG	1"	25	12
CB4 HDG	1¼"	25	21
CB5 HDG	1½"	25	42
CB6 HDG	2"	10	40
CB7 HDG	2½"	10	49
CB8 HDG	3"	10	62
CB9 HDG	3½"	10	91
CB10 HDG	4"	10	110
CB11 HDG*	5"	5	135
CB12 HDG*	6"	5	225

\*Not UL listed.



### Clamps

Cat. #	Size	Unit qty.	Wt. lbs. per 100
510 HDG	½"	100	6
511 HDG	¾"	50	8
512 HDG	1"	50	13
513 HDG	1¼"	25	20
514 HDG	1½"	20	30
515 HDG	2"	10	64
516 HDG†	2½"	5	104
517 HDG†	3"	2	120
518 HDG†	3½"	2	150
519 HDG†	4"	2	220
520 HDG*	5"	1	380
521 HDG*	6"	1	690

\*Not UL listed.

†Also for use with thin wall (EMT) conduit.

# Three-piece couplings, clampbacks & clamps

## Conduit clamps – right angle type – hot dip galvanized iron

### Applications:

- Right angle – to attach the conduit run at a 90° angle to a beam or structural member
- Parallel type – to attach the conduit run parallel to a beam or structural member



### Conduit clamps

Cat. #	Size	Unit qty.	Wt. lbs. per 100
RAC50HD	½"	30	37
RAC75HD	¾"	50	40
RAC100HD	1"	60	42
RAC125HD	1¼"	75	49
RAC150HD	1½"	80	54
RAC200HD	2"	100	71
RAC250HD	2 ½"	125	95
RAC300HD	3"	165	107
RAC350HD	3½"	200	120
RAC400HD	4"	330	131

## Conduit hubs



### Conduit hubs

Cat. #	Size	Unit qty.	Wt. lbs. per 100
MHUB1 HDG	½"	25	18
MHUB2 HDG	¾"	25	25
MHUB3 HDG	1"	5	50
MHUB4 HDG	1¼"	5	25
MHUB5 HDG	1½"	2	20
MHUB6 HDG	2"	1	10
MHUB7 HDG	2½"	1	10
MHUB8 HDG	3"	1	5
MHUB9 HDG	3½"	1	5
MHUB10 HDG	4"	1	2
MHUB11 HDG	5"	1	1
MHUB12 HDG	6"	1	1

## Conduit hubs – mechanically galvanized malleable iron

### Applications:

- Ideal for terminating electrical conduit through the walls of enclosures
- Designed for use indoors or outdoors with rigid conduit and IMC, specific applications include food processing plants, distilleries, breweries, sewage disposal plants, chemical plants, paper processing mills and refineries

### Features:

- Male thread type
- Tapered female thread for rigid conduit and IMC
- Recessed o-ring gasket assures raintight and secure environmental connections
- Insulated throat provides smooth pulling surface
- Locking screw on the nut doubles as a grounding screw for added safety
- Complete size range from ½" to 6"
- Hubs fit standard knockouts; no special tools required

### Standard material:

- Malleable iron

### Standard finish:

- Mechanically galvanized

### Certifications and compliances:

- Class I, Division 2
- Class II, Divisions 1 & 2
- Class III, Divisions 1 & 2
- UL Standard 514B
- UL Listed – Certified by UL to CSA Standard C22.2 No. 18
- NEMA: FB-1
- Suitable for wet locations

# FD boxes & covers

## Applications:

- Cast device boxes are installed to:
- Accommodate wiring devices
- Act as pull boxes for conductors in a conduit system
- Provide openings to make splices and taps in conductors
- Use indoors and outdoors
- Use in applications where boxes may be subjected to rough use

## Features:

- Green ground screw is located on the flange of the box for easy ground wire termination and is standard on boxes
- Suitable for use in wet locations when used with gasket and flat blank covers
- Mounting lugs standard
- Tapered threaded hubs (NPT) with integral bushing
- Available as shallow (FS) or deep (FD) configuration
- Ample wiring room provided in either FS or FD configuration
- Wide selection of surface or flush covers available in three materials (sheet malleable, steel, aluminum)
- Malleable iron construction provides high tensile strength for strong, dependable service
- Covers are individually bagged and supplied with screws

## Certifications and compliances:

- cULus
- cCSAus

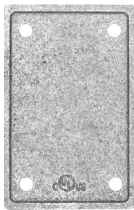
## Standard material:

- Malleable iron

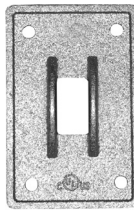
## Standard finish:

- Hot dip galvanized

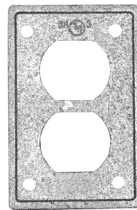
## FD Covers – malleable



FBCM1 HDG



SWCM1 HDG



RCM1 HDG

Cat. #	Description	Unit qty.	Wt. lbs. per 100
<b>FBCM1 HDG</b>	Malleable iron flat blank cover	25	56
<b>SWCM1 HDG</b>	Malleable iron switch cover	25	63
<b>RCM1 HDG</b>	Malleable iron duplex receptacle cover	25	55

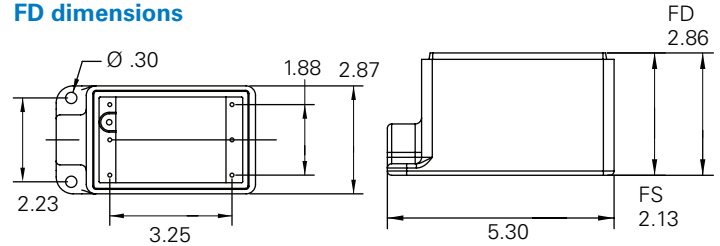
## FD boxes



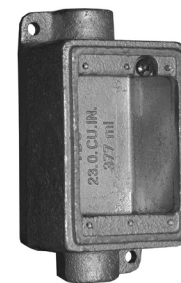
FDM1 HDG

Cat. #	Size	Unit qty.	Wt. lbs. per 100
<b>FDM1 HDG</b>	½"	2	278
<b>FDM2 HDG</b>	¾"	2	273
<b>FDM3 HDG</b>	1"	2	284

## FD dimensions



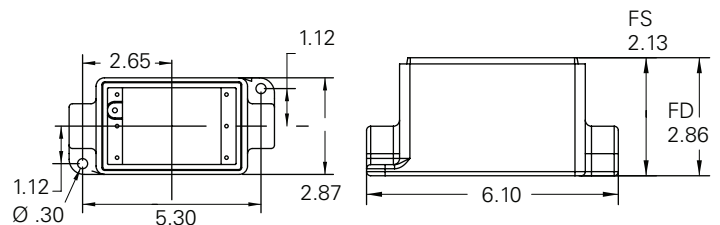
## FDC boxes



FDCM1 HDG

Cat. #	Size	Unit qty.	Wt. lbs. per 100
<b>FDCM1 HDG</b>	½"	2	313
<b>FDCM2 HDG</b>	¾"	2	294
<b>FDCM3 HDG</b>	1"	2	306

## FDC dimensions



# XJG expansion couplings

## Applications:

**XJG expansion couplings are used with rigid metal conduit and IMC:**

- To couple together two sections of conduit subject to longitudinal movement
- In conduit runs to prevent damage to conduit supports such as in a building or on a bridge
- Indoors or outdoors in long conduit runs to permit linear movement caused by thermal expansion and contraction
- In conduit runs that cross structural joints
- On long conduit runs to prevent conduit from buckling and ensuing circuit failures

## Features:

- Weatherproof and approved for use indoors or outdoors without an external bonding jumper
- Available in ½" through 6" trade sizes
- For use with rigid metal and IMC conduit
- Available in 4" and 8" maximum conduit movement
- Internal bonding springs and metallic bushings create high integrity internal ground connection and eliminate need for external bonding jumpers and clamps (up to 4" trade size)
- Optional redundant tinned copper bonding jumpers (BJ series – ordered separately)
- UL Listed for use in wet locations
- Patented design

## Certifications and compliances:

- UL Standard 514B
- CSA 22.2 No. 18 3-12
- NEMA FB1
- Wet locations
- Third party certified as an effective grounding means (i.e. the path to ground is permanent and continuous), for two sections of conduit subject to expansion or contraction

## Options:

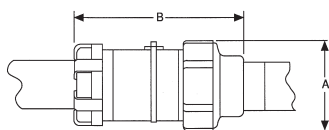
### Description

- Available with redundant bonding jumper for visible indication of bonding (BJ series)\*

### Suffix

(order separately)

## Dimensions (in inches):



**XJG shown with optional bonding jumper Bonding jumper width: 0.188"; height: 0.875"**



## Standard materials and finishes:

### Body

Steel – electrogalvanized  
Copper-free aluminum – natural  
*Feraloy*® iron alloy – electrogalvanized (5" and 6" only)

### Reducer & gland nut

½" through 1": steel – hot dip galvanized

1¼" through 6": *Feraloy* iron alloy – hot dip galvanized

Copper-free aluminum – natural

### Packing

PTFE composite

### Washer & bushing

Steel – electrogalvanized

### Gasket

Vellum

### Ground springs

Phosphor bronze – electrogalvanized

### Ground strap

Braided tinned copper

### U-bolts

Malleable iron – electrogalvanized

Conduit size	Max. conduit movement	Cat. #	Optional bonding jumper*	A dia.	B length	Bonding jumper length
½"	4	<b>XJG14 HDG</b>	BJ14	1.75	6.75	20"
	8	<b>XJG18 HDG</b>	BJ18	1.75	10.75	30"
¾"	4	<b>XJG24 HDG</b>	BJ24	2.12	6.75	20"
	8	<b>XJG28 HDG</b>	BJ28	2.12	10.75	30"
1"	4	<b>XJG34 HDG</b>	BJ34	2.43	7.25	20"
	8	<b>XJG38 HDG</b>	BJ38	2.43	11.25	30"
1¼"	4	<b>XJG44 HDG</b>	BJ44	3.19	7.56	24"
	8	<b>XJG48 HDG</b>	BJ48	3.19	11.56	30"
1½"	4	<b>XJG54 HDG</b>	BJ54	3.68	7.87	24"
	8	<b>XJG58 HDG</b>	BJ58	3.68	11.87	30"
2"	4	<b>XJG64 HDG</b>	BJ64	4.75	8.25	24"
	8	<b>XJG68 HDG</b>	BJ68	4.75	12.25	30"
2½"	4	<b>XJG74 HDG</b>	BJ74	4.87	9.31	24"
	8	<b>XJG78 HDG</b>	BJ78	4.87	13.31	36"
3"	4	<b>XJG84 HDG</b>	BJ84	5.37	10.00	30"
	8	<b>XJG88 HDG</b>	BJ88	5.37	14.00	36"
3½"	4	<b>XJG94 HDG</b>	BJ94	6.62	9.81	30"
	8	<b>XJG98 HDG</b>	BJ98	6.62	13.81	36"
4"	4	<b>XJG104 HDG</b>	BJ104	6.62	9.81	30"
	8	<b>XJG108 HDG</b>	BJ108	6.62	13.81	36"
5"	8	<b>XJ128 HDG†</b>	-	7.64	15.50	-
6"	8	<b>XJ148 HDG†</b>	-	9.56	16.00	-

\* XJG expansion couplings use a metallic bushing and ground springs to create a high integrity internal ground connection. External ground straps offer a redundant ground path and easy visible indication of ground.

† XJ128 HDG and XJ148 HDG are not internally grounded. A pair of 36" bonding jumpers are provided with fitting.

# XD deflection couplings

## Applications:

XD couplings can be installed indoors, outdoors, buried underground or embedded in concrete in non-hazardous areas. XDs are used with standard rigid conduit or PVC rigid conduit. (PVC requires rigid metal conduit nipples and rigid metal-to-PVC conduit adapters). XDs provide a flexible and watertight connection for protection of conduit wiring systems from damage due to movement.

## Typical applications include:

- Underground conduit feeder runs
- Runs between sections of concrete subject to relative movement
- Runs between fixed structures
- Conduit entrances in high rise buildings
- Bridges
- Marinas, docks, piers

## Features:

- XD couplings accommodate the following movements without collapsing or fracturing the conduit, and damaging the wires it contains:
  1. Axial expansion or contraction up to  $\frac{3}{4}$ "
  2. Angular misalignment of the axes of the coupled conduit runs in any direction to  $30^\circ$
  3. Parallel misalignment of the axes of coupled conduit runs in any direction to  $\frac{3}{4}$ "
- Inner sleeve maintains constant I.D. in any position and provides a smooth insulated wireway for protection of wire insulation
- Watertight flexible neoprene outer jacket is corrosion-resistant and protects the grounding strap and the attachment points of the hubs
- Tinned copper flexible braid grounding straps assure grounding continuity
- Stainless steel jacket clamps for strength and corrosion resistance
- Standard tapered electrical threads fit standard rigid conduit
- Integral hub bushing protects insulation of conductors

## Certifications and compliances:

- UL Standard 514B
- CSA 22.2 No. 18 3-12
- Wet locations

## Size ranges:

1" to 6" (smaller sizes can be obtained by using reducing bushings)

Conduit size	Cat. #	A dia.	B length
1"	<b>XD3 HDG</b>	7	$3\frac{15}{16}$
1 $\frac{1}{4}$ "	<b>XD4 HDG</b>	$7\frac{3}{8}$	$4\frac{1}{4}$
1 $\frac{1}{2}$ "	<b>XD5 HDG</b>	$7\frac{1}{4}$	$4\frac{1}{2}$
2"	<b>XD6 HDG</b>	$7\frac{1}{4}$	$4\frac{15}{16}$
2 $\frac{1}{2}$ "	<b>XD7 HDG</b>	$7\frac{1}{2}$	$5\frac{5}{16}$
3"	<b>XD8 HDG</b>	$7\frac{5}{8}$	$5\frac{15}{16}$
3 $\frac{1}{2}$ "	<b>XD9 HDG</b>	$7\frac{3}{4}$	$6\frac{1}{2}$
4"	<b>XD010 HDG</b>	$7\frac{7}{8}$	$6\frac{15}{16}$
5"	<b>XD012 HDG</b>	$7\frac{3}{4}$	8
6"	<b>XD014 HDG</b>	$8\frac{3}{8}$	9

\* $\frac{3}{4}$ " trade size can be created using third party certified 1" -  $\frac{3}{4}$ " reducing bushings.



## Standard materials and finishes:

### Hubs:

- Feraloy® iron alloy – hot dip galvanized

### Outer jacket:

- Molded neoprene – natural (black)

### Jacket clamps:

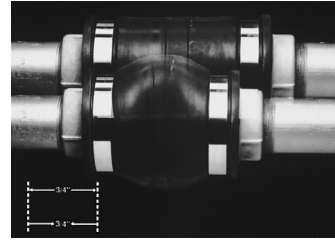
- Stainless steel – natural

### Inner sleeve:

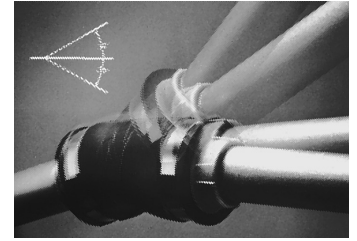
- Molded plastic – natural (brown)

### Bonding strap:

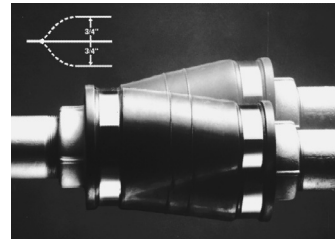
- Braided tinned copper



1. Axial expansion/contraction

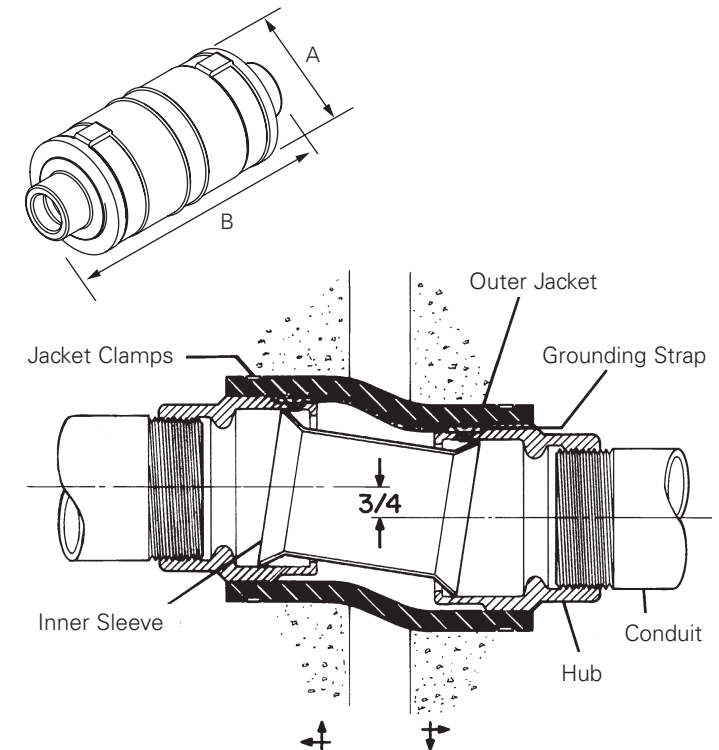


2. Angular misalignment



3. Parallel misalignment

## Dimensions (in inches):



3/4 Expansion & 3/4 Deflection from relaxed position



# W-series junction boxes

## Applications:

**Junction boxes, designed for hazardous and non-hazardous locations, are used in a variety of industries to perform the following functions:**

- As a pull box
- To provide enclosures for splices and taps
- As a mounting box for multi-device control stations
- For housing apparatus, instruments and other devices

## Considerations for selection:

- Environmental location – the physical location of the junction box will call for proper construction of the box to meet National Electrical Code requirements and will affect the material and finish needed to meet weather and corrosive conditions, if present.
- Number and size of conductors – combined with the function to be performed (i.e. splicing, pull box), determines the amount of space needed, and therefore, the required physical dimensions of the box.
- Conduit layout – determines the number, size and location of the conduit openings in the box. It will also determine the type of mounting required (i.e. flush or surface positioning of the box).
- Flexibility required – if changes in the electrical system are anticipated, the box chosen should be easily adaptable, either by construction or size to the future system.

## Options and accessories:

A wide variety of options and accessories for special application are available for the various junction box families. These can be selected once the type of junction box has been determined. These options are shown on the individual pages. Some of the options available include:

- Special covers
- Materials and finishes
- Equipment mounting plates
- Conduit or device openings

## Quick selector chart

Junction box	Environmental capability/type designation	Size range* L, W, D inside	Max. conduit opening size	Mtg.	Cover type	Cover material
<b>WAB</b>	Raintight/Type 3, 4 Dusttight/Type 12	4 x 4 x 2 to 8 x 8 x 6	4	Surface	Surface	Steel
<b>WJB</b>	Raintight/Type 3 Watertight/Type 4	4 x 4 x 4 to 36 x 24 x 18	6	Surface	Surface	Steel
<b>WJBF</b>	Raintight/Type 3 Watertight/Type 4	4 x 4 x 4 to 36 x 24 x 24	6	Flush	External flanged recessed sidewalk	Steel (checkered)

\*Length and width are inside dimensions. Depth is inside dimension without cover.

## Drilled & tapped conduit openings or slip holes:

All W-series cast iron junction boxes may be ordered with drilled and tapped conduit openings or slip holes – subject to minimum spacing limitations.

To order a box from the factory with conduit openings, consult factory.

# WJBF junction boxes

## Applications:

**WJBF junction boxes are primarily designed for surface mounting. These heavy duty boxes are installed in conduit systems to:**

- Act as pull box for conductors
- Provide openings and space for making splices and taps in conductors
- Provide for branch conduit runs
- Provide access to conductors for maintenance and future system changes
- Enclose and protect electrical equipment

## Features:

- Covers are suitable for vehicular traffic (H20 loading)
- Neoprene gasket cemented to cover
- Wide range of drilled and tapped conduit entrance sizes and locations permits extreme flexibility of use in conduit system
- Internal equipment mounting pads may be drilled and tapped for 1/4"-20 mounting screws
- Blind tapped into internal mounting pads
- Mounting straps are standard on smaller sized boxes up to 8" x 8" x 6"; for larger sizes, consult factory

## Certifications and compliances:

- Weatherproof
- Watertight
- NEMA 3, 4, 5
- NEMA 250
- CEC\* :
  - Class II, Division 1, Groups E, F, G
  - Class III
  - Encl. 3, 4, 5
- H20 Vehicle Load Rating†

\*UL certified for sizes up to 8" x 8" x 6".

†Self-certify to H20 vehicle load rating equivalent to 16,000 lbs. on cover center.

## Standard materials:

- Body – iron alloy
- Cover and mounting straps – heavy gauge steel (checkered)
- Gaskets – neoprene
- Cover screws – stainless steel

## Standard finish:

- Iron alloy and heavy gauge steel – hot dip galvanized

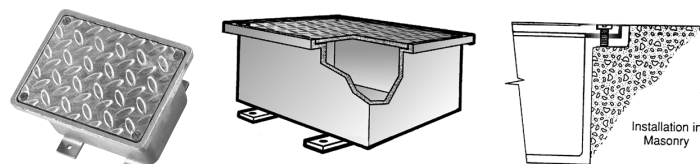
## Options:

### Description

- Factory installed mounting plate
- Drilled and tapped conduit holes and slip holes

### Suffix

- MP**
- Consult factory**



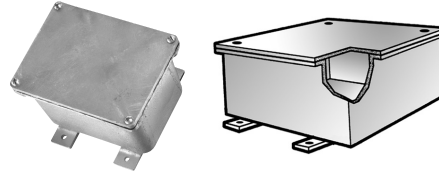
Cat. #	Wall thickness (in.)	Length (in.)	Width (in.)	Depth (in.)
WJBF040404	1/4	4	4	4
WJBF060404	1/4	6	4	4
WJBF060604	1/4	6	6	4
WJBF060606	1/4	6	6	6
WJBF080604	1/4	8	6	4
WJBF080804	1/4	8	8	4
WJBF080806	1/4	8	8	6
WJBF080808	1/4	8	8	8
WJBF100806	1/4	10	8	6
WJBF101008	1/4	10	10	8
WJBF120806	1/4	12	8	6
WJBF120808	1/4	12	8	8
WJBF121206	1/4	12	12	6
WJBF121208	1/4	12	12	8
WJBF121212	5/16	12	12	12
WJBF140806	1/4	14	8	6
WJBF141410	5/16	14	14	10
WJBF161206	1/4	16	12	6
WJBF161208	1/4	16	12	8
WJBF161606	1/4	16	16	6
WJBF180806	1/4	18	8	6
WJBF180808	1/4	18	8	8
WJBF181006	5/16	18	10	6
WJBF181206	5/16	18	12	6
WJBF181208	5/16	18	12	8
WJBF181210	3/8	18	12	10
WJBF241208	3/8	24	12	8
WJBF241212	3/8	24	12	12
WJBF241808	3/8	24	18	8
WJBF242412	3/8	24	24	12
WJBF242418	3/8	24	24	18
WJBF242424	3/8	24	24	24
WJBF362418	3/8	36	24	18
WJBF362424	3/8	36	24	24

# WJB junction boxes

## Applications:

**WJB junction boxes are primarily designed for surface mounting. These heavy duty boxes are installed in conduit systems to:**

- Act as pull box for conductors
- Provide openings and space for making splices and taps in conductors
- Provide for branch conduit runs
- Provide access to conductors for maintenance and future system changes
- Enclose and protect electrical equipment



## Features:

- Covers are suitable for vehicular traffic (H2O loading)
- Neoprene cover gasket
- Wide range of drilled and tapped conduit entrance sizes and locations permits extreme flexibility of use in conduit system
- Internal equipment mounting pads may be drilled and tapped for 1/4"-20 mounting screws
- Blind tapped into internal mounting pads
- Mounting straps are standard on smaller sized boxes up to 8" x 8" x 6"; for larger sizes, consult factory

## Certifications and compliances:

- Weatherproof
- Watertight
- NEMA 3, 4, 5
- NEMA 250
- CEC:
  - Class II, Groups E, F, G
  - Class III
  - Encl. 3, 4, 5

UL certified for sizes up to 8" x 8" x 6"

## Standard materials:

- Body – iron alloy
- Cover and mounting straps – heavy gauge steel
- Gaskets – neoprene
- Cover screws – stainless steel
- Standard finish:
- Iron alloy and heavy gauge steel – hot dip galvanized

## Options:

### Description

Factory installed mounting plate

Drilled and tapped conduit holes and slip holes

### Suffix

**MP**

**Consult factory**

Cat. #	Wall thickness (in.)	Length (in.)	Width (in.)	Depth (in.)
WJBF040404	1/4	4	4	4
WJBF060404	1/4	6	4	4
WJBF060604	1/4	6	6	4
WJBF060606	1/4	6	6	6
WJBF080604	1/4	8	6	4
WJBF080804	1/4	8	8	4
WJBF080806	1/4	8	8	6
WJBF080808	1/4	8	8	8
WJBF100806	1/4	10	8	6
WJBF101008	1/4	10	10	8
WJBF120806	1/4	12	8	6
WJBF120808	1/4	12	8	8
WJBF121206	1/4	12	12	6
WJBF121208	1/4	12	12	8
WJBF121212	5/16	12	12	12
WJBF140806	1/4	14	8	6
WJBF141410	5/16	14	14	10
WJBF161206	1/4	16	12	6
WJBF161208	1/4	16	12	8
WJBF161606	1/4	16	16	6
WJBF180806	1/4	18	8	6
WJBF180808	1/4	18	8	8
WJBF181006	5/16	18	10	6
WJBF181206	5/16	18	12	6
WJBF181208	5/16	18	12	8
WJBF181210	3/8	18	12	10
WJBF241208	3/8	24	12	8
WJBF241212	3/8	24	12	12
WJBF241808	3/8	24	18	8
WJBF242412	3/8	24	24	12
WJBF242418	3/8	24	24	18
WJBF242424	3/8	24	24	24
WJBF362418	3/8	36	24	18

# WAB junction boxes

## Applications:

Where a heavy duty dustproof, weatherproof enclosure is desired, WAB junction boxes are installed in conduit systems to:

- Act as pull box for conductors
- Provide openings and space for making splices and taps in conductors
- Provide for branch conduit runs
- Provide access to conductors for maintenance and future system changes
- Enclose and protect electrical devices

## Features:

- Flat neoprene cover gasket
- Wide range of drilled and tapped and slip hole conduit entrance sizes and locations permits extreme flexibility of use in conduit system
- Internal equipment mounting pads available blind tapped for  $\frac{1}{4}$ "-20 mounting screws
- Blind tapped into internal mounting pads
- Mounting straps are standard on smaller sized boxes up to 8" x 8" x 6"; for larger sizes, consult factory

## Certifications and compliances:

- Dusttight
- Weatherproof
- NEMA 3, 4, 12
- NEMA 250

## Standard materials:

- Body – iron alloy
- Cover – heavy gauge steel
- Gaskets – neoprene
- Cover screws – stainless steel
- Mounting straps – steel

## Standard finish:

- Iron alloy and heavy gauge steel – hot dip galvanized

## Options:

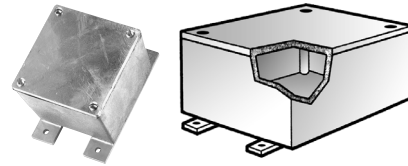
### Description

- Factory installed mounting plate
- Drilled and tapped conduit holes and slip holes

### Suffix

**MP**

**Consult factory**



Cat. #	Wall thickness (in.)	Length (in.)	Width (in.)	Depth (in.)
<b>WAB040402</b>	$\frac{5}{32}$	4	4	2
<b>WAB040403</b>	$\frac{3}{16}$	4	4	3
<b>WAB040404</b>	$\frac{1}{4}$	4	4	4
<b>WAB060604</b>	$\frac{3}{16}$	6	6	4
<b>WAB060606</b>	$\frac{9}{32}$	6	6	6
<b>WAB080606</b>	$\frac{5}{16}$	8	6	6
<b>WAB080804</b>	$\frac{5}{16}$	8	8	4
<b>WAB080806</b>	$\frac{5}{16}$	8	8	6

## Notes

This image shows a full page of blank white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page, providing a template for writing or drawing. There are no margins, text, or other markings present.



## Notes

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