

ECP Series Explosionproof Enclosures  
for OEM Applications

CROUSE-HINDS  
SERIES

A photograph of an industrial facility, likely a power plant or refinery, featuring a large orange cylindrical tank and a complex network of blue pipes and yellow railings. The scene is set against a clear blue sky. The foreground shows a blue metal structure, possibly an enclosure, with a staircase leading up to it.

Optimized design,  
extensive sizes, and fast lead times.

**EATON**

*Powering Business Worldwide*



**ECP Series**  
**Explosionproof Enclosures,**  
the latest addition to our portfolio of  
**electrical products for OEMs.**

# ECP Explosionproof Enclosures

Featuring an optimized design and fast lead times for OEMs, ECP Enclosures are available in 40 standard sizes with optional conduit and device drilling and tapping.

## Certifications:

### NEC, CEC and CSA:

- Class I, Division 1 & 2, Groups B, C, D
- Class II, Division 1 & 2, Groups E, F, G
- Class III
- UL Standard 1203
- cUL to CSA C22.2 No. 30, No. 25
- NEMA Type 3, 3R, 4, 7BCD, 9EFG
- Enclosure Type 4X (requires selecting 4X option)

### IECEX:

- Ex db IIB+H2 Gb
- Ex tb III C Db IP66
- $-20^{\circ}\text{C} \leq \text{Ta} \leq +60^{\circ}\text{C}$
- IECEX ETL 13.0022U

### ATEX:

- II 2 G D Ex db IIB+H2 Gb
- Ex tb IIIC Db IP66
- $-20^{\circ}\text{C} \leq \text{Ta} \leq +60^{\circ}\text{C}$
- ITS13ATEX17813U certified

### Standard Materials:

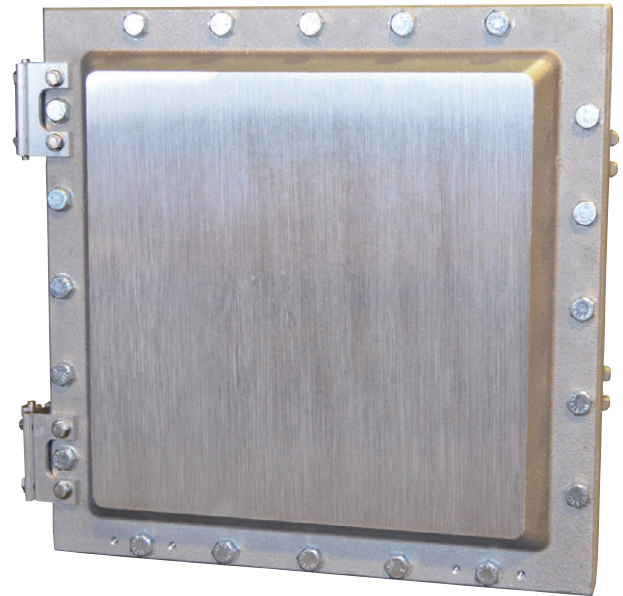
- Body and cover - Copper free aluminum
- Gasket - Neoprene
- Cover bolts - Steel
- Hinges - Aluminum

### Options (add to end of catalog number):

- PLT<sup>†</sup> - Flat aluminum plate cover
- MP - Aluminum mounting plate installed
- S752 - Epoxy powder coat finish on exterior only
- S753 - Epoxy powder coat finish on interior and exterior
- S391 - Stainless steel cover bolts and hinges
- S756V - Breather and drain
- 4X - Stainless steel cover bolts, hinges, and external epoxy powder coat
- ATEX - ATEX & IECEX certified

<sup>†</sup> Available for sizes 12x12 and larger

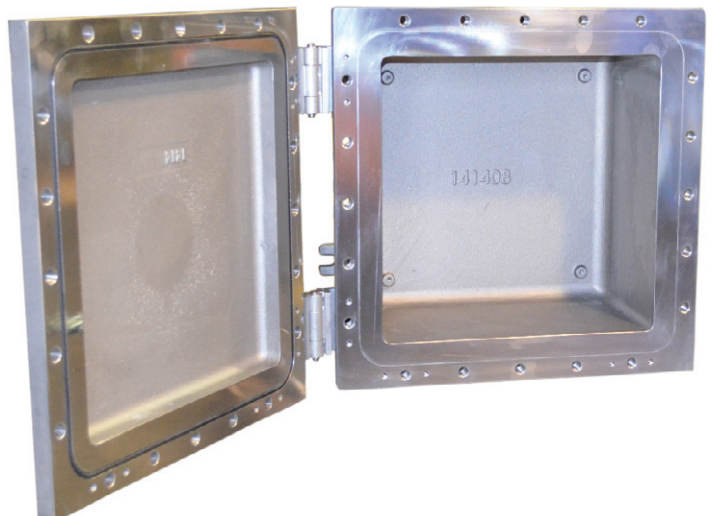
**See your Crouse-Hinds representative for a full list of available options.**



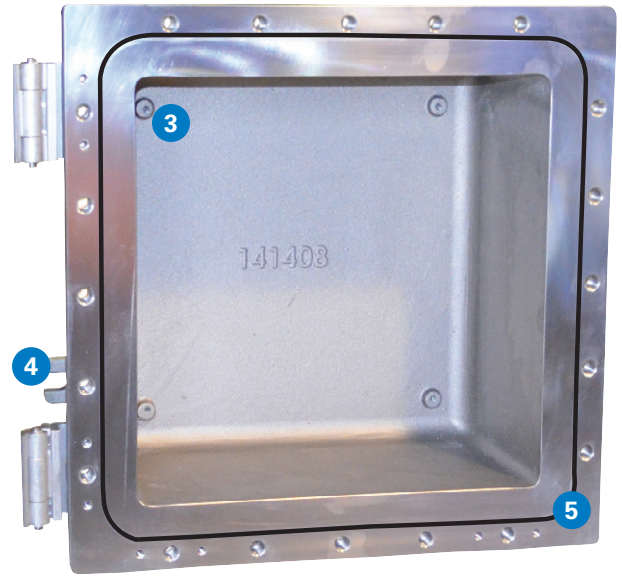
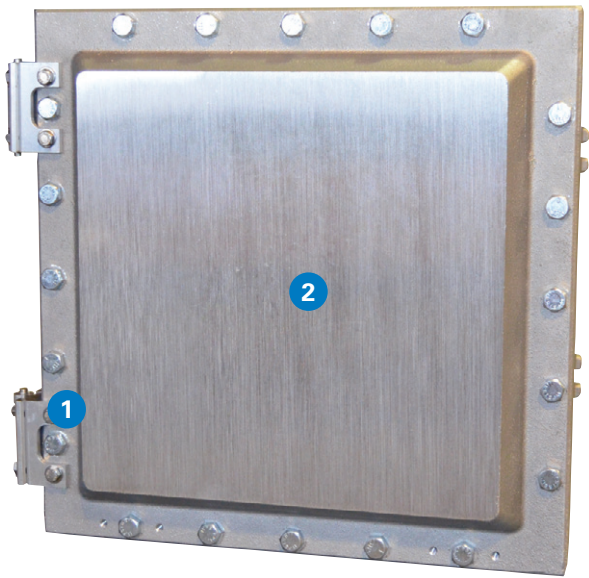
## Cover Devices:

- Pilot Lights
- Push Buttons
- Selector Switches
- Circuit Breaker Handles
- PLT Cover Allows for Window

ECP Size (W x L)	Max. No. of Cover Devices	Device Layout
04 x 06	2	1 x 2
04 x 16	5	1 x 5
06 x 08	6	2 x 3
06 x 12	8	2 x 4
08 x 08	9	3 x 3
08 x 10	9	3 x 3
08 x 12	12	3 x 4
10 x 10	9	3 x 3
12 x 12	16	4 x 4
12 x 18	24	6 x 4
14 x 14	25	5 x 5
16 x 16	36	6 x 6
16 x 24	54	9 x 6
18 x 30	66	11 x 6
24 x 30	99	11 x 9
24 x 36	117	13 x 9



# ECP Features and Benefits



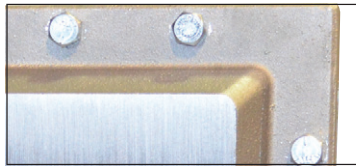
## 1 Standard Aluminum Hinge

- Aluminum hinges standard on sizes 121204 and larger, and available on sizes 081006 through 101406 by adding S598.
- Stainless cover bolts and hinges are available by adding S391.



## 2 Stroke-sanded Finish

- Stroke-sanding creates smooth surface for installation of push button / pilot light operators.
- Optional epoxy coat finish available for NEMA 4X requirements.



## 3 Standard Internal Mounting Pads

- Factory drilled and tapped, internal mounting pads enable the installer to add a mounting plate in the field.
- Standard on all sizes.



## 4 Bolt-on / Tap-in Mounting Feet

- Allows for easy field-replacement in case mounting feet are damaged or broken.



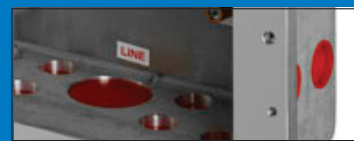
## 5 Standard Neoprene Gasket

- Comes standard in all sizes.
- Provides NEMA 4 rating for enclosure.



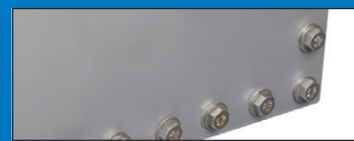
## Entries Up To 3" In Diameter

- Factory-machined, drilled and tapped entries up to 3" in diameter.
- UL / cUL certified for field addition of drilled and tapped entries on sides, top, bottom, or back of the enclosure.



## Optional Aluminum Plate Cover

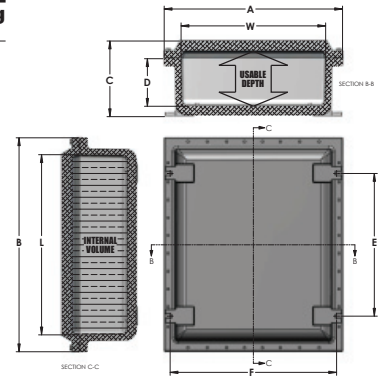
- Provides greater surface area for installation of push button / pilot light operators.
- Allows for installation of windows in plate cover.
- Strong, durable, non-porous material.



# Enclosure Ordering Information and Dimensions

Catalog Number	Inside Nominal Dimensions			Overall Dimensions			Mounting			Weight [LB]	Weight [KG]	Mounting Plate
	W	L	D	Usable Depth*	A	B	C	E	F			
ECP040604	04	06	04	4-5/8	8-11/32	10-11/32	6-1/8	5	7-1/2	16	7	MP0406
ECP041604	04	16	04	4-5/8	8-1/2	20-1/2	6-5/32	15	7-1/8	33	15	MP0416
ECP060804	06	08	04	4-5/8	10-15/32	12-15/32	6-3/16	7	9-1/8	24	11	MP0608
ECP060806	06	08	06	6-5/8	10-15/32	12-15/32	8-3/16	7	9-1/8	32	15	MP0608
ECP061204	06	12	04	4-5/8	10-1/2	16-1/2	6-3/16	11	9-1/8	32	15	MP0612
ECP080806	08	08	06	6-5/8	12-15/32	12-15/32	8-7/32	7	11-1/8	37	17	MP0808
ECP081006	08	10	06	6-3/4	12-21/32	14-21/32	8-9/16	9	11-1/8	45	20	MP0810
ECP081204	08	12	04	4-5/8	12-1/2	16-1/2	6-3/8	11	11-1/8	39	18	MP0812
ECP081206	08	12	06	6-3/4	12-21/32	16-1/2	8-9/16	11	11-1/8	53	24	MP0812
ECP081208	08	12	08	8-5/8	12-1/2	16-1/2	10-3/8	11	11-1/8	56	25	MP0812
ECP101006	10	10	06	6-5/8	14-21/32	14-21/32	8-9/16	9	13-1/8	52	24	MP1010
ECP101008	10	10	08	8-5/8	14-21/32	14-21/32	10-3/8	9	13-1/8	59	27	MP1010
ECP101406	10	14	06	6-5/8	14-21/32	18-21/32	8-15/32	13	13-1/8	66	30	MP1014
ECP121204	12	12	04	4-63/64	16-57/64	16-57/64	7-3/16	7	14-15/16	62	28	MP1212
ECP121206	12	12	06	7	16-27/32	16-27/32	9-1/8	7	15-5/16	68	31	MP1212
ECP121208	12	12	08	9	16-27/32	16-27/32	11-1/8	7	15-5/16	74	34	MP1212
ECP121806	12	18	06	6-25/32	17-1/8	23-1/8	8-31/32	12	14-15/16	102	46	MP1218
ECP121808	12	18	08	8-25/32	17-1/8	23-1/8	11-1/8	12	14-15/16	110	50	MP1218
ECP122408	12	24	08	8-15/16	17-1/4	29-1/4	11-5/8	18	14-15/16	149	68	MP1224
ECP122410	12	24	10	10-15/16	17-1/4	29-1/4	13-5/8	18	14-15/16	158	72	MP1224
ECP123608	12	36	08	8-15/16	17	41-3/64	11-59/64	30	14-15/16	247	112	MP1236
ECP141406	14	14	06	7	18-7/8	18-7/8	9-3/8	9	17-5/16	93	42	MP1414
ECP141408	14	14	08	9	18-7/8	18-7/8	11-3/8	9	17-5/16	101	46	MP1414
ECP141410	14	14	10	11	18-7/8	18-7/8	13-3/8	9	17-5/16	108	49	MP1414
ECP161606	16	16	06	7-9/16	20-61/64	20-61/64	9-51/64	10	18-15/16	117	53	MP1616
ECP161608	16	16	08	9-9/16	20-61/64	20-61/64	11-51/64	10	18-15/16	125	57	MP1616
ECP162408	16	24	08	9-3/8	20-7/8	28-7/8	12-11/16	18	20	195	89	MP1624
ECP181806	18	18	06	7-3/8	22-7/8	22-7/8	10-7/16	12	21-9/16	153	70	MP1818
ECP181808	18	18	08	9-1/4	22-7/8	22-7/8	12-7/16	12	21-9/16	164	74	MP1818
ECP181810	18	18	10	10-15/16	22-7/8	22-7/8	14-7/16	12	21-9/16	175	79	MP1818
ECP182408	18	24	08	9-7/16	23-13/32	29-13/32	12-5/16	18	22-3/8	223	101	MP1824
ECP182410	18	24	10	11-7/16	23-13/32	29-13/32	14-5/16	18	22-3/8	235	107	MP1824
ECP183008	18	30	08	9-3/8	24	36	12-5/8	24	22	304	138	MP1830
ECP183608	18	36	08	9-11/32	23-21/32	41-21/32	12-39/64	30	22-3/8	355	161	MP1836
ECP183610	18	36	10	11-21/64	23-21/32	41-21/32	14-57/64	30	22-3/8	376	171	MP1836
ECP242408	24	24	08	9-7/16	29-21/64	29-21/64	12-17/32	18	28-3/8	279	127	MP2424
ECP242410	24	24	10	11-7/16	29-21/64	29-21/64	14-17/32	18	28-3/8	301	137	MP2424
ECP243008	24	30	08	9-1/4	30	36	13-1/8	24	28	428	194	MP2430
ECP243608	24	36	08	9-1/4	29-15/16	41-15/16	13-1/4	30	29-1/2	481	218	MP2436
ECP243610	24	36	10	11-1/4	29-55/64	41-55/64	15-1/8	30	29	533	242	MP2436

\*Usable depth is reduced by 1/2" when adding a mounting plate.



ECP Series Enclosures are furnished with or without drilled and tapped openings. Drilling and tapping of conduit openings and device openings in the cover and body are subject to the limitations of maximum size and number of openings as well as spacings. All machining must be done prior to installation.

## Drilling and Tapping for Entries

The location, quantity, and maximum sizes must be in accordance with the following tables:

**Drilled and Tapped Conduit Openings  
Minimum Center-to-Center Distance (In.)**

Conduit Size	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3
1/2	1-1/2							
3/4	1-5/8	1-3/4						
1	1-3/4	1-7/8	2					
1-1/4	2	2-1/8	2-1/4	2-1/2				
1-1/2	2-1/8	2-1/4	2-3/8	2-5/8	2-3/4			
2	2-3/8	2-1/2	2-5/8	2-7/8	3	3-1/4		
2-1/2	2-3/4	2-7/8	3-1/8	3-1/4	3-3/8	3-5/8	3-7/8	
3	3-1/8	3-1/4	3-3/8	3-1/2	3-5/8	4	4-1/4	4-5/8

Minimum clearance for unions only.

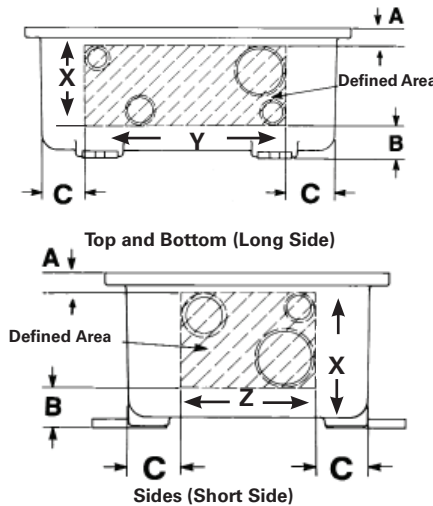
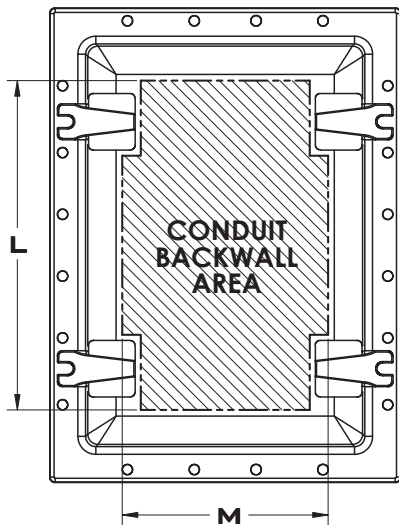
**Metric Equivalents**

NPT Conduit Size	Metric Opening
1/2	M16 X 1.5
3/4	M20 X 1.5
1	M25 X 1.5
1-1/4	M32 X 1.5
1-1/2	M40 X 1.5
2	M50 X 1.5
2-1/2	M63 X 1.5
3	M75 X 1.5

# Defined Area Dimensions - Sidewall and Backwall

The number of entries is limited by the total removed area of the entries. To calculate, add up all individual entry areas and cross-check with the total removed area allowed in the tables below.

Catalog Number	Defined Area - Sidewall						Defined Area - Backwall		Total Removed Area Per Enclosure Allowed Allowable Area to Remove			
	A	B	C	X	Y	Z	L	M	Catalog Number	Long Side, Inch <sup>2</sup>	Short Side, Inch <sup>2</sup>	Back Inch <sup>2</sup>
ECP040604	1.00	1.58	1.19	2.38	4.75	2.75	N/A	N/A	ECP040604	3.87	3.87	N/A
ECP041604	1.00	1.58	1.19	2.41	14.75	2.75	N/A	N/A	ECP041604	15.48	3.87	N/A
ECP060804	1.00	1.54	1.19	2.44	6.75	4.75	N/A	N/A	ECP060804	7.74	3.87	N/A
ECP060806	1.00	1.54	1.44	4.44	6.75	4.75	N/A	N/A	ECP060806	11.22	11.22	N/A
ECP061204	1.00	1.44	1.19	2.44	10.75	4.75	N/A	N/A	ECP061204	11.61	3.87	N/A
ECP080806	1.00	1.53	1.44	4.47	6.75	6.75	N/A	N/A	ECP080806	11.22	11.22	N/A
ECP081006	1.00	1.53	1.44	4.73	8.75	6.75	N/A	N/A	ECP081006	16.95	11.22	N/A
ECP081204	1.00	1.44	1.19	2.61	10.75	6.75	N/A	N/A	ECP081204	11.61	7.74	N/A
ECP081206	1.00	1.53	1.44	4.61	10.75	6.75	N/A	N/A	ECP081206	22.44	11.22	N/A
ECP081208	1.00	1.44	1.44	6.61	10.75	6.75	N/A	N/A	ECP081208	29.04	14.52	N/A
ECP101006	1.13	1.53	1.44	4.49	8.75	8.75	N/A	N/A	ECP101006	16.95	16.95	N/A
ECP101008	1.13	1.44	1.44	6.49	8.75	8.75	N/A	N/A	ECP101008	14.52	14.52	N/A
ECP101406	1.13	1.44	1.44	4.96	12.75	8.75	N/A	N/A	ECP101406	25.43	16.95	N/A
ECP121204	1.13	2.08	1.25	2.10	11.31	11.31	9.85	9.85	ECP121204	9.50	9.50	21.81
ECP121206	1.09	2.00	1.25	4.20	10.88	10.88	9.85	9.85	ECP121206	18.27	18.27	21.81
ECP121208	1.19	2.09	1.25	6.04	10.85	10.85	9.85	9.85	ECP121208	26.21	26.21	21.81
ECP121806	1.11	1.92	1.25	4.05	16.50	10.50	15.85	9.85	ECP121806	26.73	17.01	35.09
ECP121808	1.13	2.15	1.25	5.97	16.85	10.85	15.85	9.85	ECP121808	40.24	25.91	35.09
ECP122408	1.44	2.19	1.38	5.81	23.43	11.43	21.88	9.88	ECP122408	54.45	26.56	48.44
ECP122410	1.44	2.19	1.38	7.81	23.36	11.36	21.88	9.88	ECP122410	72.98	35.49	48.44
ECP123608	1.42	2.42	1.38	5.77	34.97	10.97	33.67	9.88	ECP123608	80.71	25.32	74.55
ECP141406	1.13	2.13	1.25	4.00	12.85	12.85	11.53	11.53	ECP141406	20.56	20.56	51.22
ECP141408	1.13	2.13	1.25	6.00	12.85	12.85	11.53	11.53	ECP141408	30.84	30.84	51.22
ECP141410	1.13	2.13	1.25	8.00	12.85	12.85	11.53	11.53	ECP141410	41.12	41.12	51.22
ECP161606	1.13	1.98	1.25	3.93	15.13	15.13	13.66	13.66	ECP161606	23.78	23.78	46.64
ECP161608	1.19	1.98	1.25	5.87	15.06	15.06	13.66	13.66	ECP161608	35.36	35.36	46.64
ECP162408	1.50	2.75	1.38	5.38	22.81	14.81	21.05	13.05	ECP162408	49.04	31.84	81.15
ECP181806	1.38	2.25	1.38	3.75	16.80	16.80	15.72	15.72	ECP181806	25.20	25.20	83.40
ECP181808	1.38	2.25	1.38	5.75	16.80	16.80	15.72	15.72	ECP181808	38.64	38.64	83.40
ECP181810	1.38	2.25	1.38	7.75	16.80	16.80	15.72	15.72	ECP181810	52.08	52.08	83.40
ECP182408	1.44	2.56	1.38	5.50	22.72	16.72	21.79	15.79	ECP182408	49.98	36.78	82.50
ECP182410	1.44	2.63	1.38	7.43	23.01	17.01	21.79	15.79	ECP182410	68.39	50.55	82.50
ECP183008	1.63	2.88	1.38	5.25	29.05	17.05	27.30	15.30	ECP183008	61.01	35.81	127.20
ECP183608	1.44	2.88	1.38	5.40	35.08	17.08	33.78	15.78	ECP183608	75.77	36.89	127.89
ECP183610	1.44	2.81	1.63	7.76	35.40	17.40	33.78	15.78	ECP183610	109.88	54.01	127.89
ECP242408	1.44	2.72	1.38	5.43	22.73	22.73	20.73	20.73	ECP242408	49.37	49.37	115.80
ECP242410	1.44	2.72	1.38	7.43	22.73	22.73	20.73	20.73	ECP242410	67.55	67.55	115.80
ECP243008	1.75	3.25	1.50	5.13	29.04	23.04	27.03	21.03	ECP243008	59.53	47.23	169.60
ECP243608	1.50	3.38	2.00	5.37	35.05	23.05	33.19	21.19	ECP243608	75.29	49.51	196.75
ECP243610	1.75	3.25	1.50	7.13	35.20	23.20	33.19	21.19	ECP243610	100.32	66.12	203.52



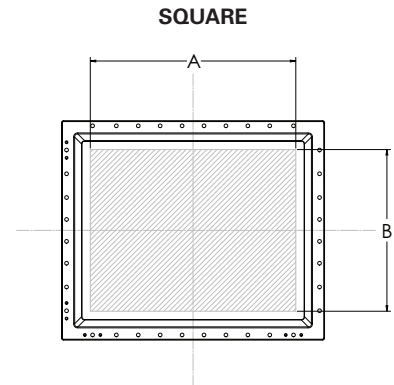
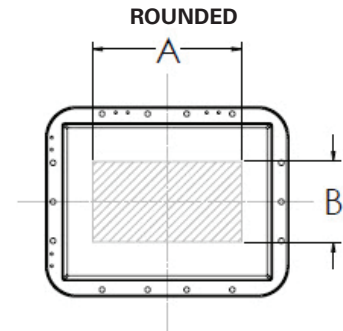
Conduit Size	1 Hole	2 Holes	3 Holes	4 Holes
1/2	0.41	0.81	1.22	1.62
3/4	0.69	1.38	2.07	2.76
1	1.08	2.16	3.24	4.31
1-1/4	1.77	3.53	5.30	7.07
1-1/2	2.41	4.81	7.22	9.62
2	3.87	7.74	11.61	15.48
2-1/2	5.41	10.82	16.24	21.65
3	8.48	16.95	25.43	33.90

# Defined Area Dimensions and Removal Rules - Cover

The number of entries is limited by the total removed area of the entries. To calculate, add up all individual entry areas and cross-check with the total removed area allowed in the tables below.

**Defined Area - Cover**

Catalog Number	Cover Style	Mounting Feet	A	B	Allowable Area to Remove - Cover (in <sup>2</sup> )
ECP040604	Rounded	Bolt-on	3.58	0.95	1.43
ECP041604	Rounded	Bolt-on	11.45	0.95	3.57
ECP060804	Rounded	Bolt-on	6.20	3.58	4.28
ECP060806	Rounded	Bolt-on	6.20	3.58	4.28
ECP061204	Rounded	Bolt-on	8.83	3.58	5.71
ECP080806	Rounded	Bolt-on	6.20	6.20	6.42
ECP081006	Rounded	Bolt-on	6.20	6.20	6.42
ECP081204	Rounded	Bolt-on	8.83	6.20	8.56
ECP081206	Rounded	Bolt-on	8.83	6.20	8.56
ECP081208	Rounded	Bolt-on	8.83	6.20	8.56
ECP101006	Rounded	Bolt-on	6.20	6.20	6.42
ECP101008	Rounded	Bolt-on	6.20	6.20	6.42
ECP101406	Rounded	Bolt-on	11.45	6.20	10.70
ECP121204	Square	Tap-in	10.13	10.13	11.42
ECP121206	Square	Tap-in	10.13	10.13	11.42
ECP121208	Square	Tap-in	10.13	10.13	11.42
ECP121806	Square	Tap-in	16.13	10.13	17.12
ECP121808	Square	Tap-in	16.13	10.13	17.12
ECP122408	Square	Tap-in	22.50	10.50	25.69
ECP122410	Square	Tap-in	22.50	10.50	25.69
ECP123608	Square	Tap-in	34.00	10.00	37.10
ECP141406	Square	Tap-in	12.13	12.13	17.84
ECP141408	Square	Tap-in	12.13	12.13	17.84
ECP141410	Square	Tap-in	12.13	12.13	17.84
ECP161606	Square	Tap-in	14.13	14.13	25.69
ECP161608	Square	Tap-in	14.13	14.13	25.69
ECP162408	Square	Tap-in	22.13	14.13	38.53
ECP181806	Square	Tap-in	16.13	16.13	25.69
ECP181808	Square	Tap-in	16.13	16.13	25.69
ECP181810	Square	Tap-in	16.13	16.13	25.69
ECP182408	Square	Tap-in	22.13	16.13	38.53
ECP182410	Square	Tap-in	22.13	16.13	38.53
ECP183008	Square	Tap-in	28.13	16.13	47.09
ECP183608	Square	Tap-in	34.13	16.13	55.65
ECP183610	Square	Tap-in	34.13	16.13	55.65
ECP242408	Square	Tap-in	22.13	22.13	57.79
ECP242410	Square	Tap-in	22.13	22.13	57.79
ECP243008	Square	Tap-in	28.13	22.13	70.64
ECP243608	Square	Tap-in	34.00	22.00	83.48
ECP243610	Square	Tap-in	34.00	22.00	83.48



**Surface Area Removed Per Threaded Operator (in<sup>2</sup>)**

Thread Size and Type	Area Removed Per Device
3/4" - 14 NPSM	0.713
3/4" - 20 NEF	0.388
7/8" - 20 NEF	0.539
5/8" - 18 UNF	0.249

Example: A quantity of 22, 3/4" - 14 NPSM devices would utilize 15.686 inches<sup>2</sup>, meaning the ECP1212 would not accommodate this number of operators.

## 3D Models Available!

3D models for ECP enclosures are now available online for direct integration into your design software.

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