

# Powers™ Controls

## CP 567 Control Cabinets

### Description

CP 567 Control Cabinets are designed to conveniently group control system components (Figure 1). Control components can be mounted on the door or mounted within the cabinet enclosure using the perforated mounting plate. Cabinets are available in three sizes: small, medium, and large. The cabinet enclosure, door, and perforated mounting plate may be ordered separately. The small cabinet enclosure is available in a flush mount version. See Table 1 for product numbers and dimensions.

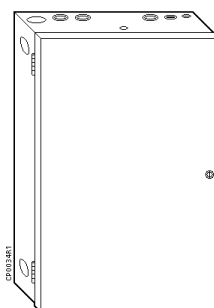


Figure 1. CP 567 Control Cabinet.

Table 1. Product Numbers.

Description		Order Number		Dimensions Inches (mm) H x W x D
		No Cutouts In Door	With Cutouts In Door	
Cabinet Assembly:	Small	567-351	567-351A	19-1/2 (495) x 16-3/8 (416) x 5-3/4 (146)
	Medium	567-352	567-352A	24-5/16 (617) x 24-3/8 (619) x 9-3/8 (238)
	Large	567-353	567-353A	36-1/2 (927) x 24-3/8 (619) x 9-3/8 (238)
Cabinet Door:	Small	567-361	567-361A	See Figure 4
	Medium	567-362	567-362A	See Figure 4
	Large	567-363	567-363A	See Figure 4
Cabinet Enclosure:	Small	567-371	—	See Figures 4 and 5
	Flush Mount	567-391	—	See Figure 7
	Medium	567-372	—	See Figures 4 and 5
	Large	567-373	—	See Figures 4 and 5
Flush Mount Kit		567-390	—	See Figure 8
Mounting Plate:	Small	567-381	—	—
	Medium	567-382	—	—
	Large	567-383	—	—

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## Application

CP 567 Control Cabinets provide a convenient central location for equipment mounting, termination of piping, adjustment, and calibration.

The door and mounting plate can be separated from the cabinet enclosure. The empty cabinet enclosure can be installed at the job to permit early rough-in of conduit.

Controls may be mounted to the door and mounting plate either at the job site or at the office and attached to the cabinet enclosure at your convenience. After reassembly, final connections are made.

Cabinets may be used with pneumatic systems employing either copper or polyethylene tubing for transmission lines, with wired electric/electronic systems, or with a combination of both. Pneumatic tubing within the cabinet enclosure should be polyethylene for a flexible connection to hinged door components and for easy installation and arrangement.

For information on how to layout a control cabinet door, see *Technical Bulletin TB-197* (155-224P25).

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## Features

- Cabinets are symmetrical; therefore, they can be mounted with the door hinge on the left or right hand side.
- Door is removable.
- Attractive gray finish permits use in occupied areas.
- Removable perforated mounting plate permits mounting controls inside the cabinet without drilling holes.
- All cabinets can be wall or floor mounted.
- Support kits are available for floor mounting (medium and large cabinets only).
- Knockouts are provided for electrical or pneumatic piping.
- Cabinets are listed under UL 508 Industrial Control Panel Enclosures.
- CSA approved file LR84214.
- NEMA TYPE 1 style of enclosure.
- Height and width dimensions and cabinet color are the same for automation and pneumatic cabinets for a uniform look and mounting.

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## Specifications

Cabinet Sizes	See Table 1
Dimensions:	
Cabinet, Door, Subpanel	See Figures 4 through 8 and Tables 6 and 7
Supports	See Figure 6
Mounting:	
Wall	See Figure 4 and Table 6
Floor	See Figure 5
Flush (in wall)	See Figures 7 and 8 and Table 7

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**Specifications,  
Continued**

<b>Knockouts-Electrical Conduit Size:</b>		
<b>Small and Flush Mount Cabinets</b>		
Top	(3) 1-1/4 or 1-1/2, (1) 3/4 or 1, (2) 1/2 or 3/4, (1) 7/16	
Bottom	(3) 1-1/4 or 1-1/2, (1) 3/4 or 1, (2) 1/2 or 3/4, (1) 7/16	
Right Side	(2) 2	
Left Side	(2) 2	
<b>Medium and Large Cabinets</b>		
Top	(1) 2, (3) 1-1/4 or 1-1/2, (1) 3/4 or 1, (1) 1/2 or 3/4, (1) 7/16	
Bottom	(1) 2, (3) 1-1/4 or 1-1/2, (1) 3/4 or 1, (1) 1/2 or 3/4, (1) 7/16	
Right Side	(2) 2	
Left Side	(2) 2	
<b>Material (Steel):</b>		
Cabinet (Small Med., Flush Mt.)	16 gal 0.0598 (1.5 mm)	
Door (Small, Med., Flush Mt.)	16 gal 0.0598 (1.5 mm)	
Cabinet (Large)	14 gal 0.0747 (1.9 mm)	
Door (Large)	14 gal 0.0747 (1.9 mm)	
Mounting Plate	16 gal 0.0598 (1.5 mm)	
Supports	14 gal 0.0747 (1.9 mm)	
<b>Finish</b>	Gray	
<b>Door Cutouts</b>	See <i>TB 196</i> (155-223P25)	
<b>Door Layout</b>	See <i>TB 197</i> (155-224P25)	
<b>Weight:</b>		
Small Cabinet Assembly	20 lb (9 kg)	
Medium Cabinet Assembly	39 lb (18 kg)	
Large Cabinet Assembly	72 lb (33 kg)	
Flush Mount Enclosure	20 lb (9 kg)	
Flush Mount Kit	8 lb (3.6 kg)	
Support Legs	See Table 2	
<b>Accessories</b>	Replacement Door Lock and Key Assembly	567-225
	Floor Mount Support Kit (2 supports, hardware)	See Table 2
	Touch-up Spray Paint, 16 oz Can	
	Gray	544-459
	Blue	534-500
	Cabinet Light	See I.D. Number 3296 of the Field Purchasing Guide

**Table 2. Floor Mount Support Kit.**

Cabinet Size to be Supported	Support Size		Order Number
	Height	Weight	
Medium	49 inches (1245 mm)	40 lb (18 kg)	567-335
Large	37 inches (940 mm)	30 lb (14 kg)	567-334

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## Door Layout

**NOTE:** Controls cannot be mounted to the door of the flush mount cabinet.

Perform the following steps when preparing to lay out a cabinet door:

1. Determine controls to be mounted on the door.
2. Determine if there is space available for the controls by using the layout sheet for the door described in TB-197 (155-224P25).
3. Determine if the controls mounted in the door will clear the mounting plate when tubing or wires are attached. See Figure 3 and Table 5 for dimensions. Table 4 provides the approximate space requirements for controls frequently mounted in the door.
4. Determine if the total weight of the controls, (see Table 4) to be mounted on the door are within the maximum weight limitations shown in Table 3. If weight limitations are exceeded, the door might sag and prevent proper closure.

**Table 3. Weight Limitations.**

Cabinet Size	Maximum Weight of Controls That Can Be Mounted on Door lb (Kg)	Maximum Number of Selector Switches That Can Be Mounted on Door
Small	21 (9.5)	14
Medium	30 (14)	20
Large	93 (42)	62

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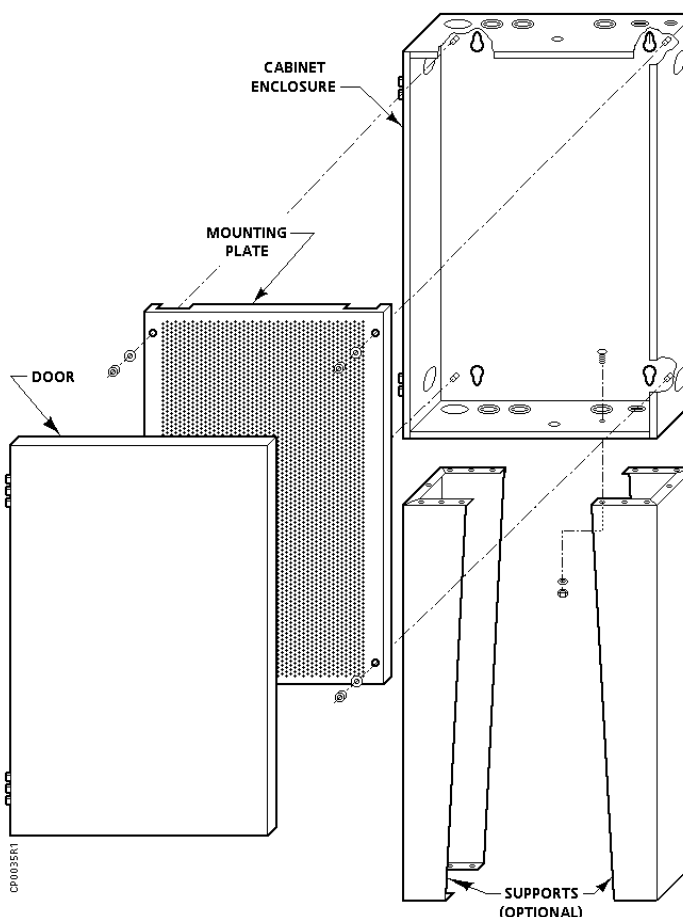
## Installation of Cabinet (Small, Medium, Large)

1. There are four keyhole mounting holes in the back surface of the cabinet. Their sizes and locations are shown in Figure 5. Use wall anchors that are suitable to support the weight of the cabinet and its contents.
2. If more than one cabinet is to be mounted in the same location, allow at least 2 inches (51 mm) between cabinets to provide space for doors to open properly.
3. The cabinets are symmetrical before cutouts have been made, so the door can be mounted with the hinge on the left or right side.
4. Determine the size of the knockouts required for the number and size of pneumatic tubes and wires to be brought into the cabinet.
5. If more than one knockout is required, divide the tubes and wires for easy connection to the controls.
6. If a cabinet light is required, order per instructions under accessories. The recommended mini work light has a 2-inch (51 mm) diameter by 4-inch (102 mm) long bulb holder on a 15-inch (381 mm) long flexible metal arm.
  - a. Remove the plug and mounting bracket from the light.
  - b. Punch out the 7/16-inch (11 mm) diameter knockout in the center of the top of the cabinet.
  - c. Attach the light using the nut and washer provided with it.
  - d. Wire the light cord in compliance with local electrical codes.

## Installation of Controls

**NOTE:** It might be easier to remove the door from the cabinet and then mount the controls onto the door or the mounting plate.

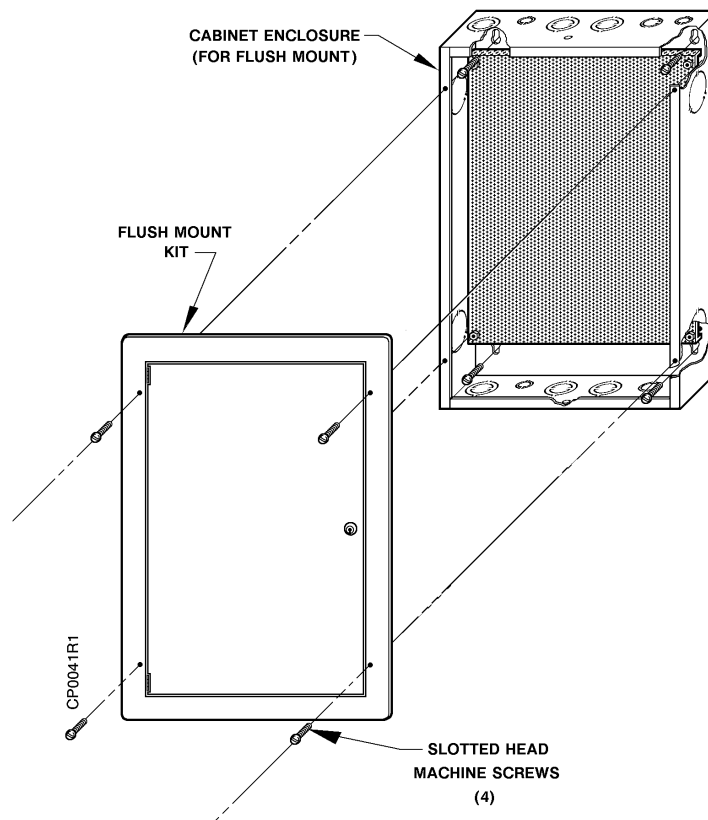
1. The space required for the controls mounted in the door or the mounting plate is shown in Table 4. Space available between the door and the mounting plate is shown in Figure 4, Table 5, and Table 6.
2. Arrange the controls on the mounting plate to avoid interference with the controls on the door. Arrange the controls in logical groupings for easy access to fitting and wiring terminals. Table 4 shows the approximate space required for controls frequently mounted on the mounting plate in the cabinet.
3. In some cases it might be easier to remove the mounting plate to mount the controls.
4. Mount the controls to the perforated mounting plate with standard sheet metal screws.
5. When routing tubing or wires from the controls mounted on the door, allow sufficient slack to prevent excessive stress.
6. Bundle and tie tubing and wires separately.



**Figure 2. Wall Mount Cabinet Components.**

## Installation of Flush Mount Cabinet

1. Mount the cabinet in a wall at least 6 inches (15.2 cm) deep. There are four keyhole mounting holes in the back surface of the cabinet. Their sizes and locations are shown in Figure 5. Use wall anchors that are suitable to support the weight of the cabinet and its contents.
2. Determine the size of the knockouts required for the number and size of pneumatic tubes and wires to be brought into the cabinet.
3. The cabinets are symmetrical before cutouts have been made, so the door can be mounted with the hinge on the left or right side.
4. If more than one knockout is required, divide the tubes and wires for easy connection to the controls.
5. If a cabinet light is required, order per instructions under accessories. The recommended mini work light has a 2-inch (51 mm) diameter by 4-inch (102 mm) long bulb holder on a 15-inch (381 mm) long flexible metal arm.
  - a. Remove the plug and mounting bracket from the light.
  - b. Punch out the 7/16-inch (11 mm) diameter knockout in the center of the top of the cabinet.
  - c. Attach the light using the nut and washer provided with it.
  - d. Wire the light cord in compliance with local electrical codes.



**Figure 3. Flush Mount Cabinet Components.**

**Table 4. Approximate Panel Space Requirements (Includes Fitting and Clearances).**

Equipment	Door Mounting Depth Inches (mm)	Equipment Weight Pounds (kg) (See Note 3)	Mounting Plate Depth Inches (mm)	Inside Area Required Inches <sup>2</sup> (cm <sup>2</sup> )
6 Input Sig. Selector	—	—	4 (102)	12 (77)
656 Pilot Valve	—	—	3 (76)	100 (645)
ARG 61.00 Wall Mount Case	—	—	8.52 (216.4)	13.10 (84.5)
ARG 61.01 Panel Mount Case	7.52 (191)	1.65 (0.750)	—	11.28 (72.8)
Clock (Bracket) SW 222	—	—	3 (76)	80 (516)
Clock SW 143	—	—	2-1/2 (64)	25 (161)
D.P. Switch	—	—	3 (76)	45 (290)
Diff. Press. Reg.	—	—	3 (76)	35 (226) (See Note 1)
E.P.	—	—	1-1/4 (32)	30 (194)
Electric Relay	—	—	4 (102)	30 (194)
Enthalpy Comparator	—	—	3-1/2 (89)	30 (194)
FZA 21 Remote Setting Unit	0.87 (22)	0.11 (0.05)	—	1.98 (12.76)
FZA 61 Remote Setting Unit	1.10 (28)	0.15 (0.07)	—	3.00 (19.36)
Gauges 1-1/2"	2 (51)	0.2 (0.09)	1-1/2 (38)	4 (26) (See Note 2)
Gauges 2-1/2"	2-1/2 (64)	0.5 (0.22)	—	—
Gauges 3-1/2"	2-1/2 (64)	0.6 (0.27)	—	—
Min (PRV)	3 (76)	0.5 (0.22)	2 (51)	10 (65)
MP, BR, Analog Relays	4-1/2 (114)	2 (0.91)	2-1/2 or 5 (64 or 127)	42 (271)
P.E. (Dual or D/N)	—	—	3-1/2 (89)	42 (271)
P.E. (Single)	—	—	3-1/2 (89)	28 (181)
Positioning/Selector Switch	3 (76)	2 (0.91)	5 (127)	10 (65) (See Note 2)
PRV (Powers)	—	—	5-1/2 (140)	100 (645)
RC 195	—	—	3-1/2 (89)	60 (387)
RZM 61.7 Analog Meter	1.77 (45)	0.22 (0.1)	—	3.14 (20.25)
Series 200	3 (76)	13 (5.9)	4 (102)	110 (710)
Static Pressure Reg.	—	—	4 (102)	30 (194)
Switching Relay	—	—	2-1/2 (64)	65 (419)

**NOTES:**

1. Normally not mounted inside of the cabinet.
2. If mounted inside of the cabinet.
3. Weights are given for door mounted devices only.

Table 5. Usability.

Product Numbers	Cabinet Enclosure	Inside Depth Door to Mounting Plate Inches (mm)	Maximum Usable Area Inches <sup>2</sup> (cm <sup>2</sup> )	Maximum Number Of RC-195 Per Cabinet
567-351 567-351A	Small	5 (127)	172 (1109)	3
567-391	Flush Mount	4-5/8 (117)	172 (1109)	3
567-352 567-352A	Medium	8-1/2 (216)	380 (2451)	6
567-353 567-353A	Large	8-1/2 (216)	615 (3967)	10

## Dimensions

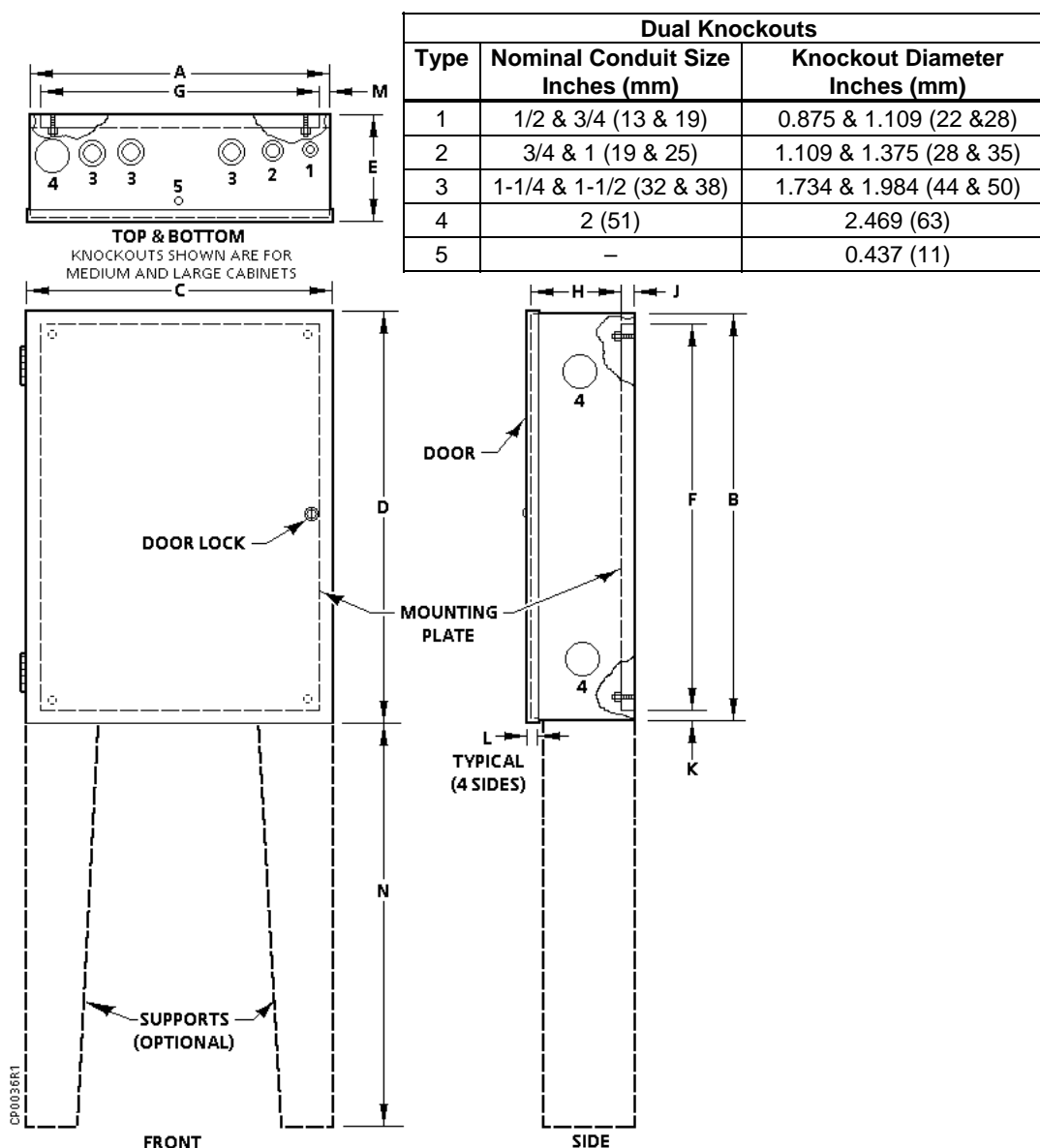
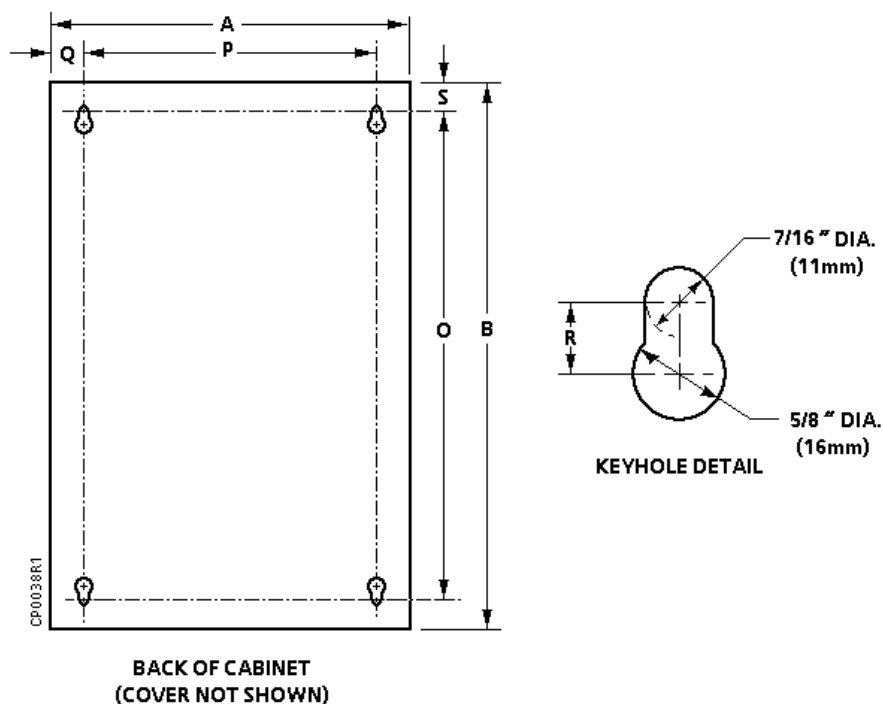


Figure 4. Cabinet and Support Dimensions (See Table 5 and Figure 9).

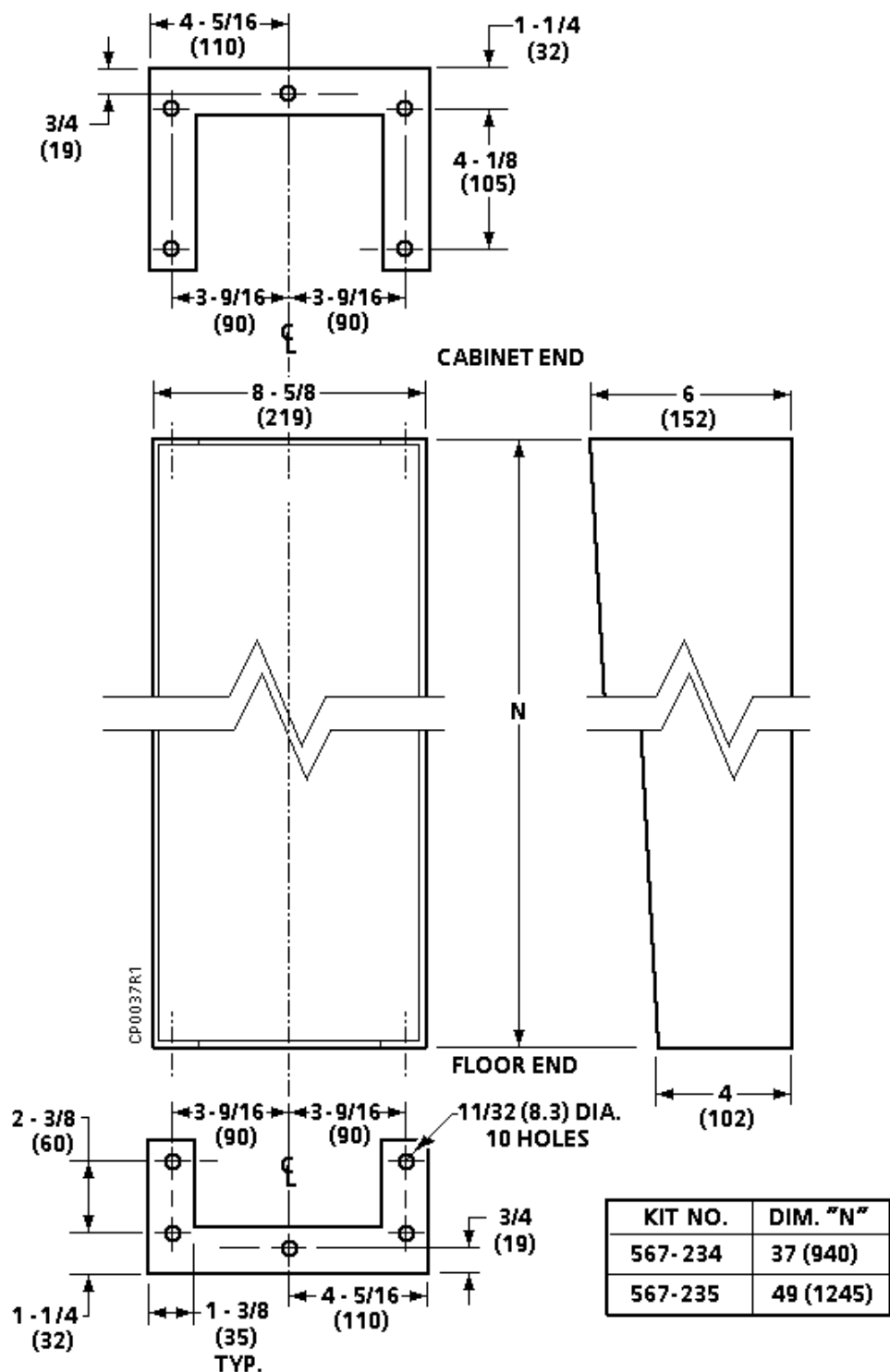


**Dimensions,  
Continued****Figure 5. Rear View of Cabinet (See Table 6).****Table 6. Cabinet Assembly Dimensions (See Figures 4, 5, and 6).**

<b>Cabinet Assembly</b>		<b>Dimensions</b>									
<b>Product Number</b>	<b>Size</b>	<b>Inches (mm)</b>									
		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>I</b>	<b>J</b>
567-351	Small	16 (406)	19 (483)	16-3/8 (416)	19-1/2 (495)	5-3/4 (146)	14-1/2 (368)	14-3/4 (375)	5 (127)	5-11/16 (145)	1/2 (13)
567-352	Medium	24 (610)	24 (610)	24-3/8 (619)	24-5/16 (617)	9-3/8 (238)	19-1/4 (489)	23 (584)	8-1/2 (216)	9-1/4 (235)	1/2 (13)
567-353	Large	24 (610)	36 (914)	24-3/8 (619)	36-1/2 (927)	9-3/8 (238)	31-1/2 (800)	22 (559)	8-1/2 (216)	9-1/4 (235)	1/2 (13)
<b>Product Number</b>	<b>Size</b>	<b>K</b>	<b>L</b>	<b>M</b>	<b>N</b>	<b>O</b>	<b>P</b>	<b>Q</b>	<b>R</b>	<b>S</b>	<b>—</b>
567-351	Small	2-1/4 (57)	3/4 (19)	5/8 (16)	*	16-1/2 (419)	13-1/2 (343)	1-1/4 (32)	1/2 (13)	1-1/4 (32)	—
567-352	Medium	2-1/4 (57)	3/4 (19)	1/2 (13)	49 (1245)	21 (533)	16 (406)	4 (102)	1/2 (13)	1-1/2 (38)	—
567-353	Large	2-1/4 (57)	3/4 (19)	1 (25)	37 (940)	33-1/2 (851)	16-3/4 (425)	3-5/8 (92)	1/2 (13)	1-1/4 (32)	—

\* See Figure 5 for dimensions of "N"

## Dimensions, Continued



DIMENSIONS ARE IN INCHES. MILLIMETERS (mm) ARE SHOWN IN PARENTHESES.

Figure 6. Floor Mount Support Legs Kit.

Dimensions,  
Continued

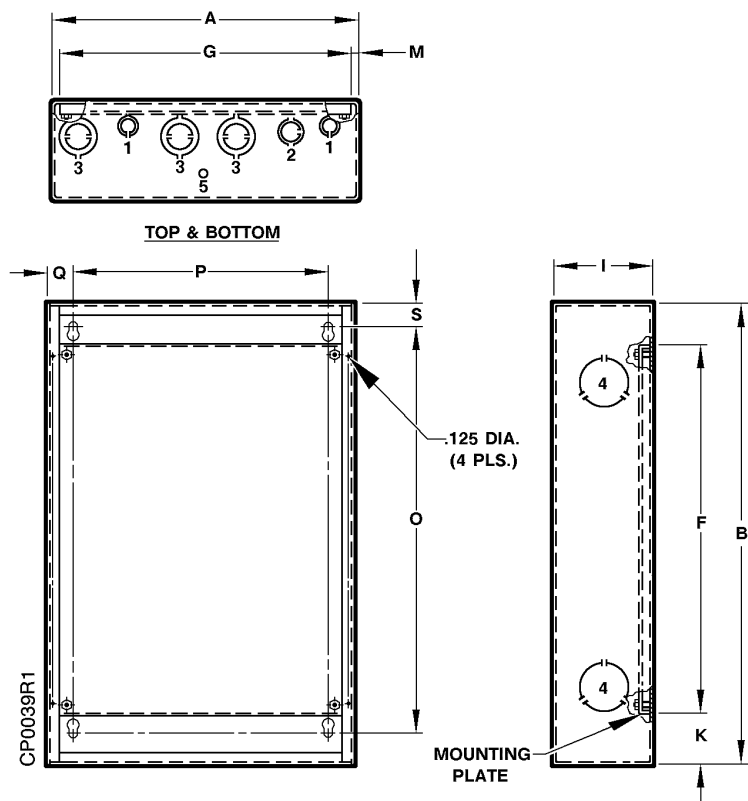


Figure 7. Flush Mount Cabinet Dimensions (See Table 7).

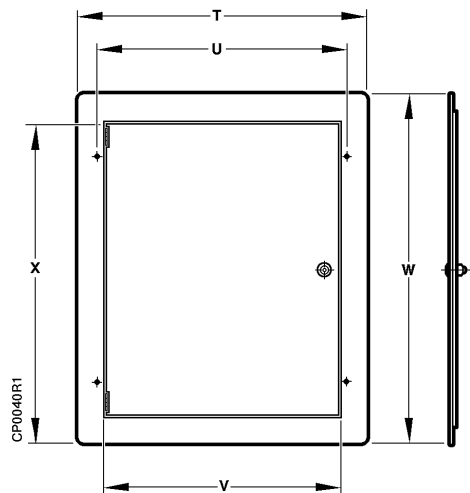


Figure 8. Flush Mount Door Dimensions  
(See Table 7).

Table 7. Flush Mount Cabinet & Door Dimensions.

Dimensions Inches (mm)							
A*	B*	F	G	I	K	M	O
16-1/8 (410)	19-1/2 (495)	13-1/2 (343)	14-3/4 (375)	5-1/8 (130)	1-1/2 (38)	1-11/16 (43)	16-1/2 (419)
P	Q	S	T*	U	V	W*	X
13-1/2 (343)	1-1/4 (32)	1-1/4 (32)	18 (457)	15-7/16 (392)	14-3/4 (375)	21-3/8 (543)	18-1/8 (460)

\* Cutout dimensions; make cutout at least the size of dimensions A & B (cabinet size) but no larger than T & W (door size).

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