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NCAT22 RevB

# Welcome To AD Products



## Who Is AD Products?

*AD Products Headquarters, in Cleveland, Ohio*

AD Products is a division of Scott Fetzer, a subsidiary company of Berkshire Hathaway Inc. (NYSE: BRK.A, BRK.B). At the end of 2000, the Berkshire Hathaway conglomeration of companies had an asset value of \$135 billion. Since 1964, under the leadership of Warren Buffet, Berkshire Hathaway shareholders have enjoyed an average annual gain of twice that of the S&P 500.

## What Does AD Products Do?

AD Products is a web-based distributor specializing in industrial electrical enclosures and enclosure accessories.

We currently offer over 300 models of industrial enclosures made from powder-coated carbon steel, 304 stainless steel, 5032-H32 aluminum and fiberglass-reinforced polyester.

Now, we're happy to introduce five new groups of accessories for enclosures: Control Concept industrial pilot devices, PowerSpec® connectors, Sky-Tie™ clamps, Remke cord grips, and Kooltronic™ fans and air conditioners.



*Powder Coated  
Carbon Steel*



*Stainless Steel*



*Aluminum*



*Fiberglass*



*Control Concept  
Industrial Pilot Devices*



*PowerSpec®  
Connectors*



*Sky-Tie™ Clamps*



*Remke Cord Grips*



*Kooltronic™ Fans &  
Air Conditioners*





### **How Fast Does AD Products Ship?**

We carry a substantial inventory of stainless steel, fiberglass and carbon steel enclosures, allowing us to feature same-day shipment on most orders. Aluminum enclosures are available on a made-to-order basis with standard lead times of 15 working days after receipt of order.

### **Can AD Products Help Me Select Products?**

Of course! Our customer service and technical support team has decades of experience working with industrial electrical enclosures and their accessories. We're also current on the ever-changing status of electrical certifications.



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## What Certifications Are Available?

All enclosures sold by AD Products, except the carbon steel, are NEMA 4X rated. All of these enclosures are listed by Underwriters Laboratories for the United States (UL) and Canada (cUL).

The carbon steel enclosures are manufactured by Ralston Metal Products, an ISO 9002 certified company, and are listed by Underwriters Laboratories (UL) and the Canadian Standards Association (CSA). These enclosures are NEMA 4 and NEMA 12 rated. The stainless steel and aluminum enclosures are manufactured by Adalet, an ISO 9001 certified company. The fiberglass enclosures are manufactured to AD Products design specifications.



## What Are Your Warranties?

All products are backed by a 30-day replacement warranty against any manufacturing defects. (See the "Ordering" section for complete details.)



## How Do I Order?

It's very simple to order from AD Products. All you need to do follow our step-by-step instructions provided at [www.adproductsco.com](http://www.adproductsco.com). Or, if you wish, you can order by phone, fax or email.

## Is The AD Products Site Secure?

We understand that the security of your personal and corporate information is important to you. When you order from AD Products, your transactions are protected by secure, state-of-the-art SSL technology provided by VeriSign®, the leader in Internet security.





*The AD Products Team represents decades of combined experience in industrial enclosure applications. The AD Products Team is organized by Sales Engineering, Standards & Certifications, Information Technology, Connector Specialties, and Quality Assurance.*

## Customer Comments

**"AD Products is a great shipper...keep it up."**

ELECTRICAL SYSTEMS INTEGRATOR

**"You have always been able to promptly answer my technical questions. Thank you!"**

INDUSTRIAL ELECTRICAL CONTRACTOR

**"I like being able to place orders at any time, night or day, even on the weekends."**

POPCORN MACHINE MANUFACTURER

**"AD Products is a very easy way for me to get the enclosures I need for special projects."**

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AutoCAD drawings available upon request.








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# Industry Standards and Definitions

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	NEMA Designation	Underwriters Laboratories Inc. UL 50 and UL 508	Canadian Standards Association CSA Standard C22.2 No 94
<b>Type 1</b>	Indoor use to provide a degree of protection against contact with the enclosed equipment; in locations where unusual service conditions do not exist	Indoor use to provide a degree of protection against contact with the enclosed equipment and against a limited amount of falling dirt	General purpose enclosure; protects against accidental contact with live parts
<b>Type 2</b>	Indoor use to provide a degree of protection against contact with the enclosed equipment and against limited amounts of falling water and dirt	Indoor use to provide a degree of protection against limited amounts of falling water and dirt	Drip proof enclosure same as Type 1; indoor use to provide a degree of protection against dripping and light splashing of non-corrosive liquids and falling dirt
<b>Type 3</b>	Indoor or outdoor use to provide a degree of protection against windblown dust, rain and sleet; undamaged by the formation of ice on the enclosure (not sleet proof)	Indoor or outdoor use to provide a degree of protection against windblown dust, rain and sleet; undamaged by the formation of ice on the enclosure	Weatherproof enclosure; indoor or outdoor use to provide a degree of protection against rain, snow and blown dust; undamaged by the external formation of ice on the enclosure
<b>Type 3R</b>	Indoor or outdoor use to provide a degree of protection against falling rain and sleet; undamaged by the formation of ice on the enclosure	Indoor or outdoor use to provide a degree of protection against falling rain and sleet; undamaged by the formation of ice on the enclosure	Weatherproof enclosure; indoor or outdoor use to provide a degree of protection against rain or snow; undamaged by the external formation of ice on the enclosure (CSA does not specify sleet resist)
<b>Type 3S</b>	Indoor or outdoor use to provide a degree of protection against windblown dust, rain and sleet; provides for operation of external mechanisms when ice laden	Indoor or outdoor use to provide a degree of protection against windblown dust, rain and sleet; external mechanisms remain operable while ice laden	Weatherproof enclosure; indoor or outdoor use to provide a degree of protection against rain or snow; undamaged by the external formation of ice on the enclosure surface (CSA does not specify sleet proof)
<b>Type 4</b>	Indoor or outdoor use to protect the enclosed equipment against splashing water, seepage of water, falling or hose-directed water, and severe external condensation; these enclosures are sleet resistant but not sleet proof	Indoor or outdoor use to provide a degree of protection against splashing water, windblown dust and rain, and hose directed water; undamaged by the formation of ice on the enclosure	Watertight enclosure; indoor or outdoor use to provide a degree of protection against rain, snow, blown dust, splashing and hose directed water; undamaged by the external formation of ice on the enclosure





# Industry Standards and Definitions

	<b>NEMA Designation</b>	<b>Underwriters Laboratories Inc. UL 50 and UL 508</b>	<b>Canadian Standards Association CSA Standard C22.2 No 94</b>
<b>Type 4X</b>	Indoor or outdoor use to provide a degree of protection against corrosion, windblown dust and rain, splashing water, and hose-directed water; undamaged by the formation of ice on the enclosure	Indoor or outdoor use to provide a degree of protection against splashing water, windblown dust and rain, and hose directed water; undamaged by the formation of ice on the enclosure; resists corrosion	Watertight enclosure; indoor or outdoor use to provide a degree of protection against rain, snow, blown dust, splashing and hose directed water; undamaged by the external formation of ice on the enclosure; resists corrosion
<b>Type 6</b>	Indoor or outdoor use to provide a degree of protection against the entry of water during occasional temporary submersion at a limited depth	Indoor or outdoor use to provide a degree of protection against the entry of water during temporary submersion at a limited depth; undamaged by the formation of ice on the enclosure	No CSA equivalent
<b>Type 6P</b>	Indoor or outdoor use to provide a degree of protection against the entry of water during prolonged submersion at a limited depth	Indoor or outdoor use to provide a degree of protection against the entry of water during prolonged submersion at a limited depth	No CSA equivalent
<b>Type 12</b>	Indoor use to provide a degree of protection against dust, falling dirt and dripping non-corrosive liquids No knockouts	Indoor use to provide a degree of protection against dust, falling dirt and dripping non-corrosive liquids No knockouts	Indoor use to provide a degree of protection against circulating dust, lint, fibers, dripping and light splashes of non-corrosive liquids
<b>Type 13</b>	Indoor use to provide a degree of protection against lint, dust, seepage, external condensation and spraying of water, oil and non-corrosive coolant	Indoor use to provide a degree of protection against dust and spraying of water, oil and non-corrosive coolants	Indoor use to provide a degree of protection against circulating dust, lint, fibers, seepage and spraying of non-corrosive liquids including oils and coolants

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## Stainless Steel (Type 304)

### Characteristics

A highly corrosion resistant iron-based alloy containing between 18% and 20% chromium. Stainless steel is the strongest of the corrosion resistant materials. It exhibits many of the same resistances attributed to fiberglass materials.

### Application

Type 304 stainless steel is recommended for indoor and outdoor use. It is ideally suited for use in food processing areas, dairies, breweries or any wet area. It also works well in areas where caustic elements or alkalis are present.



## Aluminum (Type 5052-H32)

### Characteristics

A lightweight metal that has a protective oxide layer which shields its surface from most corrosive elements. 5052 is the strongest non-heat treatable aluminum alloy. Aluminum also has a lower relative cost when compared to stainless steel.

### Mechanical Description

Adalet's aluminum enclosures have both the continuous hinge and mounting feet fastened to the box by a method of material joining called mechanical clinching. Mechanical clinching minimizes the amount of welding done, which enhances the overall appearance of the enclosure.

### Application

Aluminum enclosures are recommended for indoor or outdoor use, particularly in marine environments. It is also an excellent choice for enclosures exposed to solvents, petrochemicals and most sulfates and nitrates. Aluminum is not recommended for areas exposed to most acids and alkalis. It is a good choice for applications where weight is a consideration.





## Fiberglass

### Characteristics

These enclosures are molded under heat and pressure with fiberglass reinforced polyester resin to produce superior chemical resistance in corrosive applications. The glass fiber reinforcement increases impact resistance, produces a superior range of temperature limits, increases ability to withstand additional tensile loads and exhibits excellent electrical properties. Fiberglass has a service temperature range of -40°F (-40°C) to 250°F (121°C). Relative cost is low versus other materials while providing average physical strength.

### Application

Fiberglass enclosures are recommended for indoor or outdoor use and are ideally suited for extreme temperatures. This is in direct contrast to polycarbonate enclosures, which are not recommended for long term exposure to direct sunlight nor environments with organic solvents. Fiberglass is also ideal for salt and chemical environments or any continuously wet or corrosive area. Fiberglass is frequently specified for use in petrochemical plants, sewage processing plants and food processing areas.



## Powder-Coated Carbon Steel

### Characteristics

Made from cold rolled steel which is a low-carbon, cold-finished steel produced by passing bar stock through a set of rolls. After phosphatizing to remove dirt and oil from the steel, polyester powder paint is applied which is a thermosetting enamel and has application and performance properties similar to those of epoxy powder coatings. However, polyester powder is designed to give significantly better resistance to chalking and color change for exterior exposure and better resistance to color change from aging. A single coat on phosphatized cold rolled steel also offers good hardness and chip resistance and chemical and stain resistance.

### Application

Powder-coated carbon steel is recommended for general indoor or outdoor use. It is not recommended for environments containing alkalis, acids or where severe corrosion problems exist. Powder-coated carbon steel is suitable however for areas containing solvents.



# NEMA Type 4X JIC Stainless Steel Enclosures – Continuous Hinge Cover

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## Application

Adalet's JN4XHSS stainless steel wall-mounted enclosure can be used indoors or outdoors to provide protection against dust, dirt, oil and water for items such as hydraulic or pneumatic instruments, transformers, and junction wiring. These enclosures are suitable for applications in petrochemical plants, dairies, breweries, food processing areas and similar environments where they can be subject to frequent high pressure hosing and generally wet conditions. They are also for use in areas where severe corrosion problems exist. (Not submersible.)

## Construction

Adalet's JN4XHSS enclosures are available in Type 304 stainless steel with a brushed finish. The enclosure has continuously welded seams ground to a smooth finish. It also comes complete with four 10-32 weld nuts (for mounting optional panels). Grounding studs are provided on the inside of the box and door. Wall mounting back brackets are welded on the top and bottom outside. The JN4XHSS cover is sealed with a one-piece neoprene gasket and is secured to the enclosure with a continuous stainless steel piano hinge on one side and stainless steel door clamping hardware on three sides. There are no knock-outs or holes in the cover or body. A hardware kit is included.

## Panels

Optional panels are available. Panels are fabricated from 14 ga. cold rolled steel and are powder-coated white.

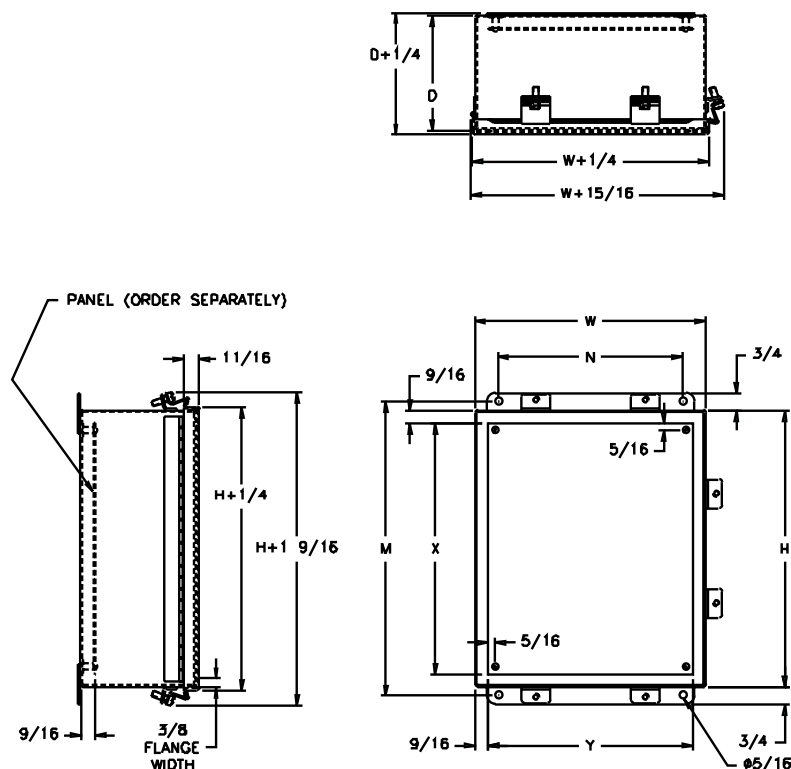
## Standards

All JN4XHSS enclosures conform to the National Electrical Manufacturers Association (NEMA) standard for Type 3 (Dusttight, Raintight and Sleet / Ice Resistant), Type 3R (Rainproof and Sleet / Ice Resistant), Type 4 (Watertight and Dusttight), Type 4X (Watertight, Dusttight and Corrosion Resistant), Type 12 (Dusttight) and Type 13 (Oiltight and Dusttight) enclosures. These enclosures conform to the Joint Industry Council (JIC) standard EGP-1-1967. They are listed by Underwriters Laboratories, Inc. (UL) for Canada and the United States.





# NEMA Type 4X JIC Stainless Steel Enclosures – Continuous Hinge Cover



Item No.	Catalog No.	Dimensions (in) H x W x D	Material Thickness Box / Cover	Hold Downs H side W side	Mounting Dim. (in) M N	Weight (lbs)	Panel Catalog No.	Panel Size (in) X x Y
M10304	JN4XHSS-060404	6 x 4 x 4	16 / 16	1 1	6.75 2.00	5.5	06P04	4.88 x 2.88
M10305	JN4XHSS-060604	6 x 6 x 4	16 / 16	1 1	6.75 4.00	6.5	06P06	4.88 x 4.88
M10302	JN4XHSS-080604	8 x 6 x 4	14 / 14	1 1	8.75 4.00	9.4	08P06	6.88 x 4.88
M10307	JN4XHSS-100804	10 x 8 x 4	14 / 14	2 1	10.75 6.00	12.3	10P08	8.88 x 6.88
M10310	JN4XHSS-121005	12 x 10 x 5	14 / 14	2 2	12.75 8.00	17.9	12P10	10.88 x 8.88
M10313	JN4XHSS-100806	10 x 8 x 6	14 / 14	2 1	10.75 6.00	16.6	10P08	8.88 x 6.88
M10315	JN4XHSS-121206	12 x 12 x 6	14 / 14	2 2	12.75 10.00	22.5	12P12	10.88 x 10.88
M10317	JN4XHSS-141206	14 x 12 x 6	14 / 14	2 2	14.75 10.00	24.6	14P12	12.88 x 10.88
M10320	JN4XHSS-161406	16 x 14 x 6	14 / 14	3 2	16.75 12.00	29.2	16P14	14.88 x 12.88
M10322	JN4XHSS-121008	12 x 10 x 8	14 / 14	2 2	12.75 8.00	21.8	12P10	10.88 x 8.88
M10323	JN4XHSS-141208	14 x 12 x 8	14 / 14	2 2	14.75 10.00	30.5	14P12	12.88 x 10.88

All dimensions in inches



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# NEMA Type 4X Victory Series Stainless Steel Enclosures

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## Application

Adalet's AVSS stainless steel enclosure can be used indoors or outdoors to house items such as electronic or electrical controls, instrumentation systems, and hydraulic, pneumatic and machine tool controls. These enclosures are designed to protect against dust, dirt, oil and water. They are for applications in petrochemical plants, dairies, breweries, food processing areas and similar environments where they can be subject to frequent high pressure hosing and generally wet conditions. They are also for use in areas where severe corrosion problems exist. (Not submersible.)

## Construction

Adalet's AVSS enclosures are available in Type 304 stainless steel with brushed finish. The enclosure has continuously welded seams ground to a smooth finish. It also has an angle formed lip around the door opening to provide complete and maximum gasket contact, along with the prevention of liquids dripping into the enclosure when the door is open. Each enclosure comes complete with a 1/4-20 grounding stud, 3/8 collar studs (for mounting optional panels). Each enclosure door is equipped with a neoprene gasket, 1/4-20 grounding stud and slotted quarter-turn latches to secure the door. 180 degree removal hinges are standard. A hardware kit is included.

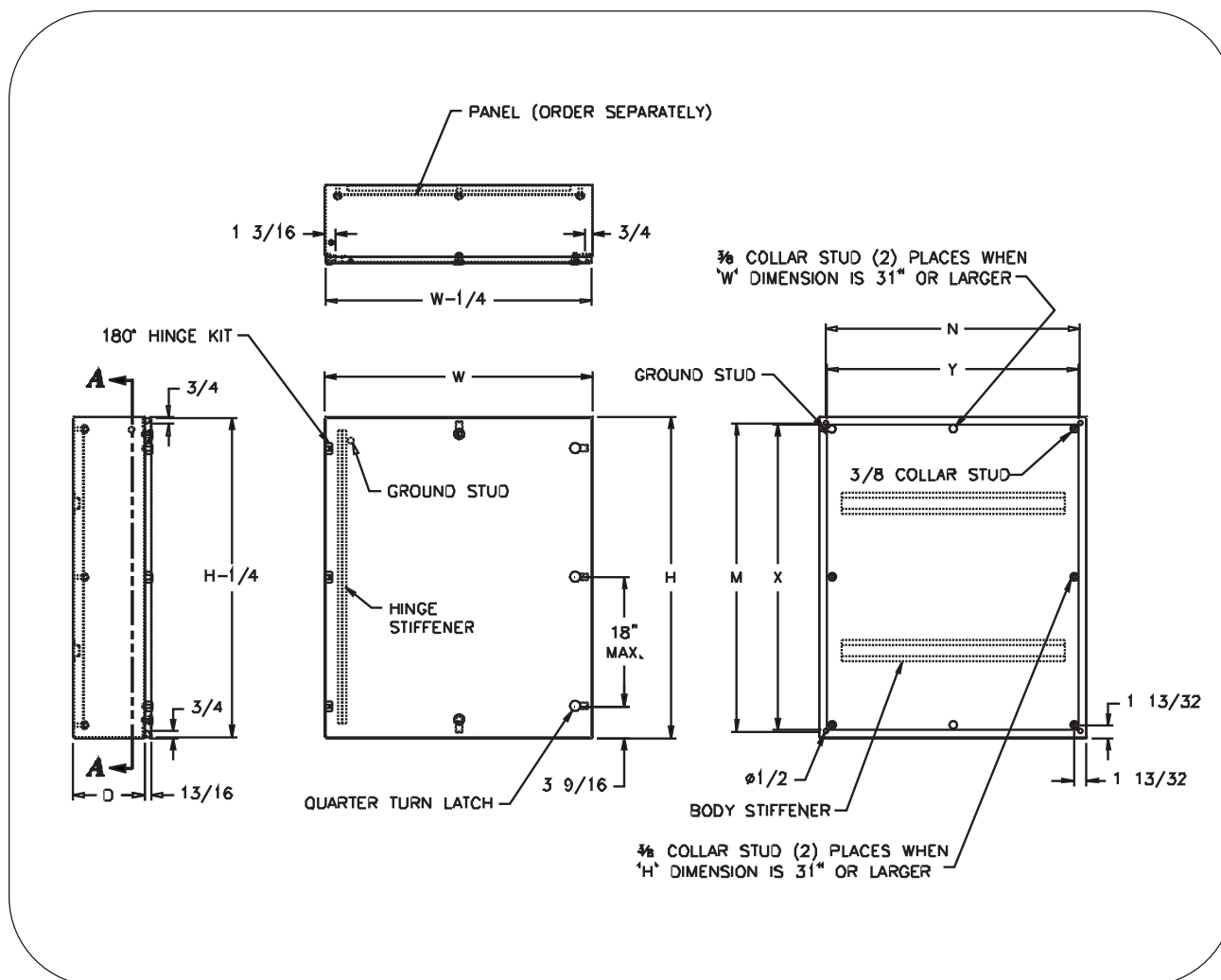
## Panels

Optional panels are available. Panels are fabricated from 12 ga. cold rolled steel and are powder coated white.

## Standards

All AVSS enclosures conform to the National Electrical Manufacturers Association (NEMA) standard for Type 3 (Dusttight, Raintight and Sleet / Ice Resistant), Type 3R (Rainproof and Sleet / Ice Resistant), Type 4 (Watertight and Dusttight), Type 4X (Watertight, Dusttight and Corrosion Resistant), Type 12 (Dusttight) and Type 13 (Oiltight and Dusttight) enclosures. These enclosures conform to the Joint Industry Council (JIC) standard EGP-1-1967. They are listed by Underwriters Laboratories, Inc. (UL) for Canada and the United States.





Item No.	Catalog No.	Dimensions (in)	Material Thickness	No. of Door Latches		Mounting Dim. (in)		Weight (lbs)	Panel Catalog No.	Panel Size (in)
		H x W x D	Box / Cover	H side	W side	M	N			X x Y
M10000	AVSS-121206	12 x 12 x 6	16 / 16	1	0	10.5	10.5	20.0	V1212	9.00 x 9.00
M10001	AVSS-161206	16 x 12 x 6	16 / 16	1	0	14.5	10.5	23.5	V1612	13.00 x 9.00
M10012	AVSS-201608	20 x 16 x 8	16 / 16	2	0	18.5	14.5	37.8	V2016	17.00 x 13.00
M10013	AVSS-202008	20 x 20 x 8	16 / 16	2	0	18.5	18.5	42.9	V2020	17.00 x 17.00
M10016	AVSS-242008	24 x 20 x 8	16 / 16	2	0	22.5	18.5	48.1	V2420	21.00 x 17.00
M10017	AVSS-242408	24 x 24 x 8	16 / 14	2	1	22.5	22.5	57.4	V2424	21.00 x 21.00
M10020	AVSS-302408	30 x 24 x 8	16 / 14	3	1	28.5	22.5	67.0	V3024	27.00 x 21.00
M10021	AVSS-303008	30 x 30 x 8	14 / 14	3	1	28.5	28.5	90.9	V3030	27.00 x 27.00
M10023	AVSS-363008	36 x 30 x 8	14 / 14	3	1	34.5	28.5	103.8	V3630	33.00 x 27.00
M10031	AVSS-363012	36 x 30 x 12	14 / 14	3	1	34.5	28.5	127.0	V3630	33.00 x 27.00
M10036	AVSS-483612	48 x 36 x 12	14 / 14	4	2	46.5	34.5	174.0	V4836	45.00 x 33.00

*All dimensions in inches*



# NEMA Type 4X Stainless Steel Single Door Enclosures

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Sky-Tie™ Clamps

Remke Cord Grips

Kooltronic™ Cooling

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## NEED IT FAST? WE HAVE IT IN STOCK!

Because AD Products specializes in enclosures and related products, we carry a large inventory of Stainless Steel, Carbon Steel and Fiberglass enclosures that are ready when you need them. Most orders ship the same day or next day they are placed so you don't have to wait.

## Application

Adalet's N4X stainless steel single door wall-mount enclosure can be used indoors or outdoors to house items such as pilot devices, electronic or electrical controls, instrumentation systems, and hydraulic, pneumatic and machine tool controls. These enclosures are designed to protect against dust, dirt, oil and water. They are for applications in petrochemical plants, dairies, breweries, food processing areas and similar environments where they can be subject to frequent high pressure hosing and generally wet conditions. They are also for use in areas where severe corrosion problems exist. (Not submersible.)

## Construction

Adalet's N4X enclosures are available in Type 304 stainless steel with a brushed finish. The enclosure has continuously welded seams ground to a smooth finish. Around the door opening it has a folded lip consisting of multiple 90 degree bends. This provides complete and maximum gasket contact, and prevents liquids from dripping into the enclosure when the door is open. Each enclosure comes complete with 3/8 collar studs (for mounting optional panels), 1/4-20 grounding studs, padlock hasp & staple. Covers feature heavy gauge stainless steel continuous hinge and a neoprene gasket. A hardware kit is included.

## Panels

Optional panels are available. Panels are fabricated from 12 ga. cold rolled steel and are powder coated white.

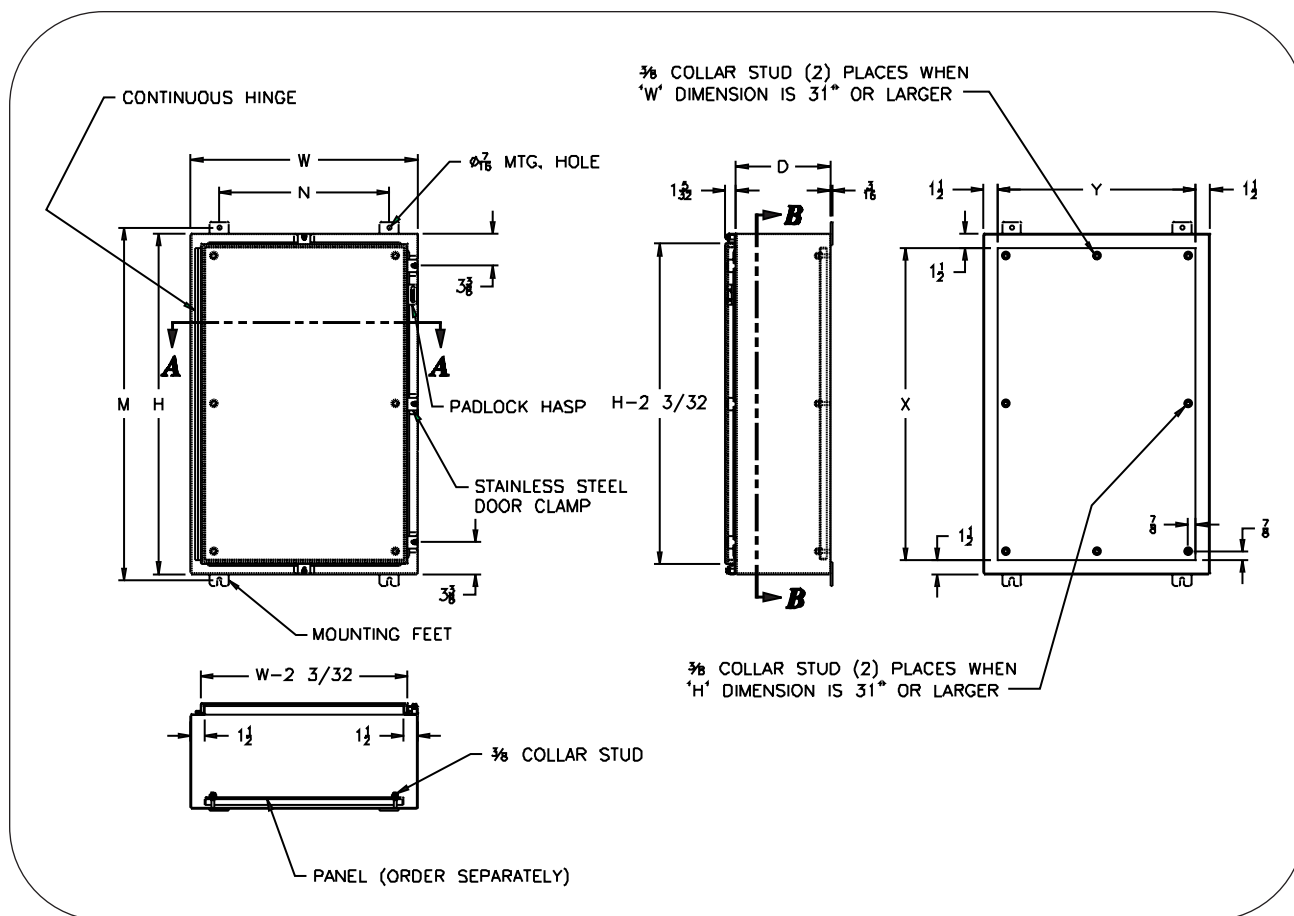
## Standards

All N4X enclosures conform to the National Electrical Manufacturers Association (NEMA) standard for Type 3 (Dusttight, Raintight and Sleet / Ice Resistant), Type 3R (Rainproof and Sleet / Ice Resistant), Type 4 (Watertight and Dusttight), Type 4X (Watertight, Dusttight and Corrosion Resistant), Type 12 (Dusttight) and Type 13 (Oiltight and Dusttight) enclosures. These enclosures conform to the Joint Industry Council (JIC) standard EGP-1-1967. They are listed by Underwriters Laboratories, Inc. (UL) for Canada and the United States.





# NEMA Type 4X Stainless Steel Single Door Enclosures



Item No.	Catalog No.	Dimensions (in) H x W x D	Material Thickness Box / Cover	Hold Downs		Mounting Dim. (in)		Weight (lbs)	Panel Catalog No.	Panel Size (in) X x Y
M10109	N4X-161206	16 x 12 x 6	16 / 14	2	1	17.25	9.50	23.3	V1612	13.00 x 9.00
M10113	N4X-201606	20 x 16 x 6	16 / 14	2	1	21.25	10.00	31.3	V2016	17.00 x 13.00
M10115	N4X-202006	20 x 20 x 6	16 / 14	2	1	21.25	14.00	36.0	V2020	17.00 x 17.00
M10119	N4X-242006	24 x 20 x 6	16 / 14	3	1	25.25	14.00	40.7	V2420	21.00 x 17.00
M10127	N4X-161208	16 x 12 x 8	16 / 14	2	1	17.25	5.50	28.2	V1612	13.00 x 9.00
M10131	N4X-201608	20 x 16 x 8	16 / 14	2	1	21.25	10.00	36.9	V2016	17.00 x 13.00
M10136	N4X-242008	24 x 20 x 8	16 / 14	3	1	25.25	14.00	46.8	V2420	21.00 x 17.00
M10137	N4X-242408	24 x 24 x 8	16 / 14	3	1	25.25	18.00	50.8	V2424	21.00 x 21.00
M10141	N4X-303008	30 x 30 x 8	14 / 14	3	2	31.25	24.00	80.3	V3030	27.00 x 27.00
M10143	N4X-302408	30 x 24 x 8	14 / 14	3	1	31.25	18.00	70.1	V3024	27.00 x 21.00
M10144	N4X-363008	36 x 30 x 8	14 / 14	3	2	37.25	24.00	94.0	V3630	33.00 x 27.00
M10161	N4X-362410	36 x 24 x 10	14 / 14	3	1	37.25	18.00	107.0	V3624	33.00 x 21.00
M10162	N4X-363010	36 x 30 x 10	14 / 14	3	2	37.25	24.00	104.0	V3630	33.00 x 27.00
M10163	N4X-423010	42 x 30 x 10	14 / 14	4	2	43.25	24.00	116.0	V4230	39.00 x 27.00
M10171	N4X-302412	30 x 24 x 12	14 / 14	3	1	31.25	18.00	91.0	V3024	27.00 x 21.00
M10174	N4X-363012	36 x 30 x 12	14 / 14	3	2	37.25	24.00	115.0	V3630	33.00 x 27.00
M10178	N4X-483612	48 x 36 x 12	14 / 14	4	2	49.25	30.00	157.0	V4836	45.00 x 33.00
M10179	N4X-603612	60 x 36 x 12	14 / 14	5	2	61.25	30.00	212.0	V6036	57.00 x 33.00

All dimensions in inches



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# NEMA Type 4X JIC Aluminum Enclosures – Continuous Hinge Cover

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*Shown with optional panel.*

**ADALET**  
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## Application

Adalet's JN4XHA aluminum wall-mounted enclosure can be used indoors or outdoors to provide protection against dust, dirt, oil and water for items such as hydraulic or pneumatic instruments, transformers, and junction wiring. These lightweight enclosures are suitable for applications in petrochemical plants, marine areas, sewage plants, areas containing solvents, and similar environments where they can be subject to frequent high pressure hosing and generally wet conditions. They are not for use in areas where severe corrosion problems exist. (Not submersible.)

## Construction

Adalet's JN4XHA enclosures are available in Type 5052-H32 aluminum with a brushed finish. The enclosure has continuously welded seams ground to a smooth finish. It also comes complete with four 10-32 standoffs (for mounting optional panels). Grounding studs are provided on the inside of the box only, and wall mounting back brackets are mechanically clinched on the top and bottom outside. The JN4XHA cover is sealed with a one-piece neoprene gasket and is secured to the enclosure with a mechanically clinched continuous aluminum piano hinge on one side and stainless steel door clamping hardware on three sides. There are no knock-outs or holes in the cover or body.

## Panels

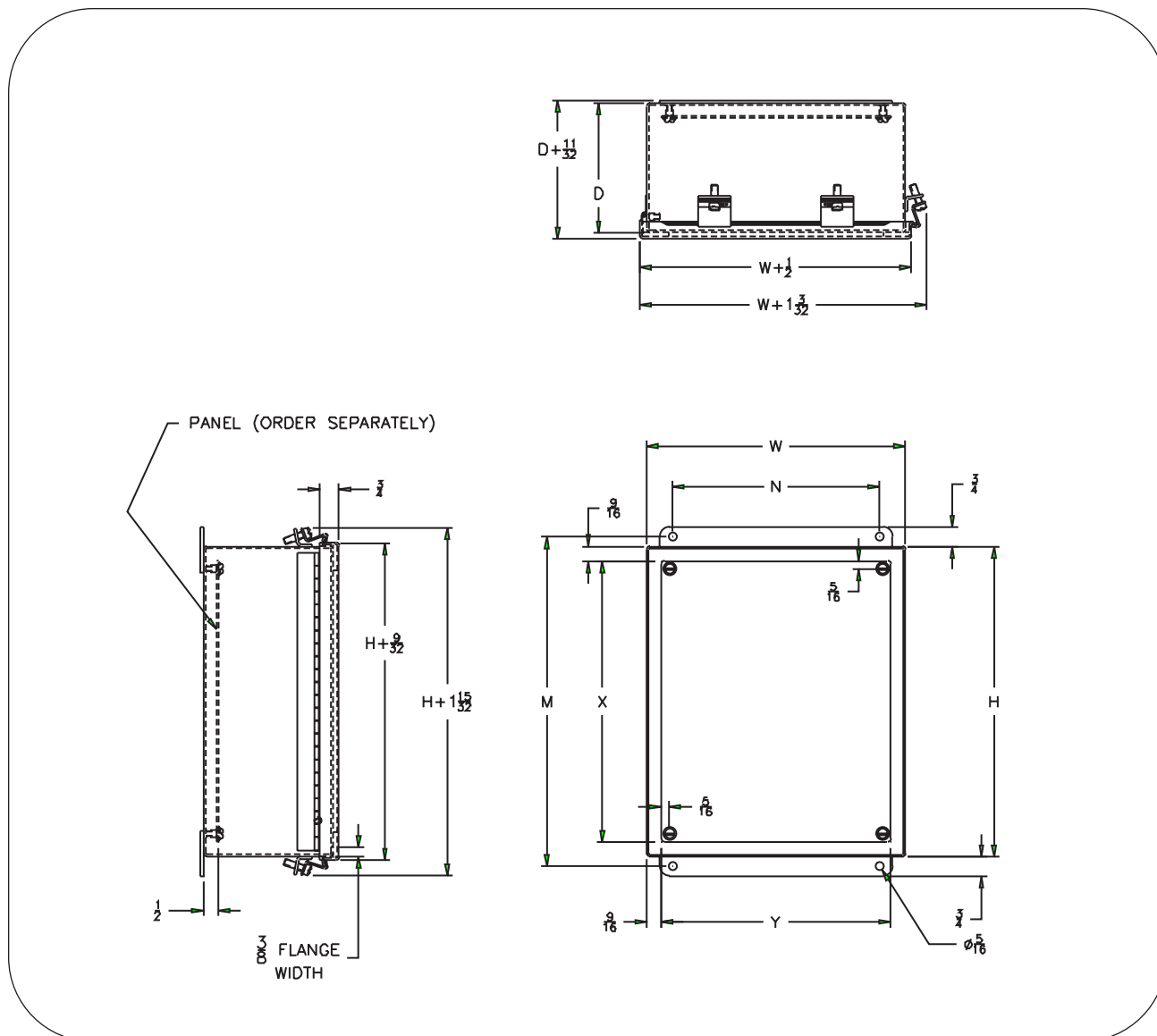
Optional panels are available. Panels are fabricated from 14 ga. cold rolled steel and are powder coated white.

## Standards

All JN4XHA enclosures conform to the National Electrical Manufacturers Association (NEMA) standard for Type 3 (Dusttight, Raintight and Sleet / Ice Resistant), Type 3R (Rainproof and Sleet / Ice Resistant), Type 4 (Watertight and Dusttight), Type 4X (Watertight, Dusttight and Corrosion Resistant), Type 12 (Dusttight) and Type 13 (Oiltight and Dusttight) enclosures. They are listed by Underwriters Laboratories, Inc. (UL) for Canada and the United States.



# NEMA Type 4X JIC Aluminum Enclosures – Continuous Hinge Cover



Item No.	Catalog No.	Dimensions (in) H x W x D	Material Thickness Box / Cover	Hold Downs H side	Hold Downs W side	Mounting Dim. (in) M N	Weight (lbs)	Panel Catalog No.	Panel Size (in) X x Y
M11301	JN4XHA-060604	6 x 6 x 4	0.08 / 0.08	1	1	6.75 4.00	2	06P06	4.88 x 4.88
M11302	JN4XHA-080604	8 x 6 x 4	0.08 / 0.08	1	1	8.75 4.00	2	08P06	6.88 x 4.88
M11303	JN4XHA-100804	10 x 8 x 4	0.08 / 0.08	2	1	10.75 6.00	3	10P08	8.88 x 6.88
M11304	JN4XHA-121005	12 x 10 x 5	0.08 / 0.08	2	2	12.75 8.00	5	12P10	10.88 x 8.88
M11305	JN4XHA-141206	14 x 12 x 6	0.08 / 0.08	2	2	14.75 10.00	7	14P12	12.88 x 10.88
M11306	JN4XHA-161406	16 x 14 x 6	0.08 / 0.08	3	2	16.75 12.00	8	16P14	14.88 x 12.88

All dimensions in inches



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# NEMA Type 4X Aluminum Single Door Enclosures

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## Application

Adalet's N4XA aluminum single door wall-mount enclosure can be used indoors or outdoors to house items such as pilot devices, electronic or electrical controls, instrumentation systems, and hydraulic, pneumatic and machine tool controls. These enclosures are designed to protect against dust, dirt, oil and water. They are suitable for applications in petrochemical plants, marine areas, sewage plants, areas containing solvents, and similar environments where they can be subject to frequent high pressure hosing and generally wet conditions. They are not for use in areas where severe corrosion problems exist. (Not submersible.)

## Construction

Adalet's N4XA enclosures are available in Type 5052-H32 aluminum with a smooth brushed finish. The enclosure has continuously welded seams ground to a smooth finish. Around the door opening it has a folded lip consisting of multiple 90 degree bends. This provides complete and maximum gasket contact, and prevents liquids from dripping into the enclosure when the door is open. Each enclosure comes complete with 3/8 collar studs (for mounting optional panels), 1/4-20 grounding studs on inside of box, padlock hasp & staple. The continuous piano hinge and mounting feet are secured to the box by mechanical clinching.

## Panels

Optional panels are available. Panels are fabricated from 12 ga. cold rolled steel and are powder coated white.

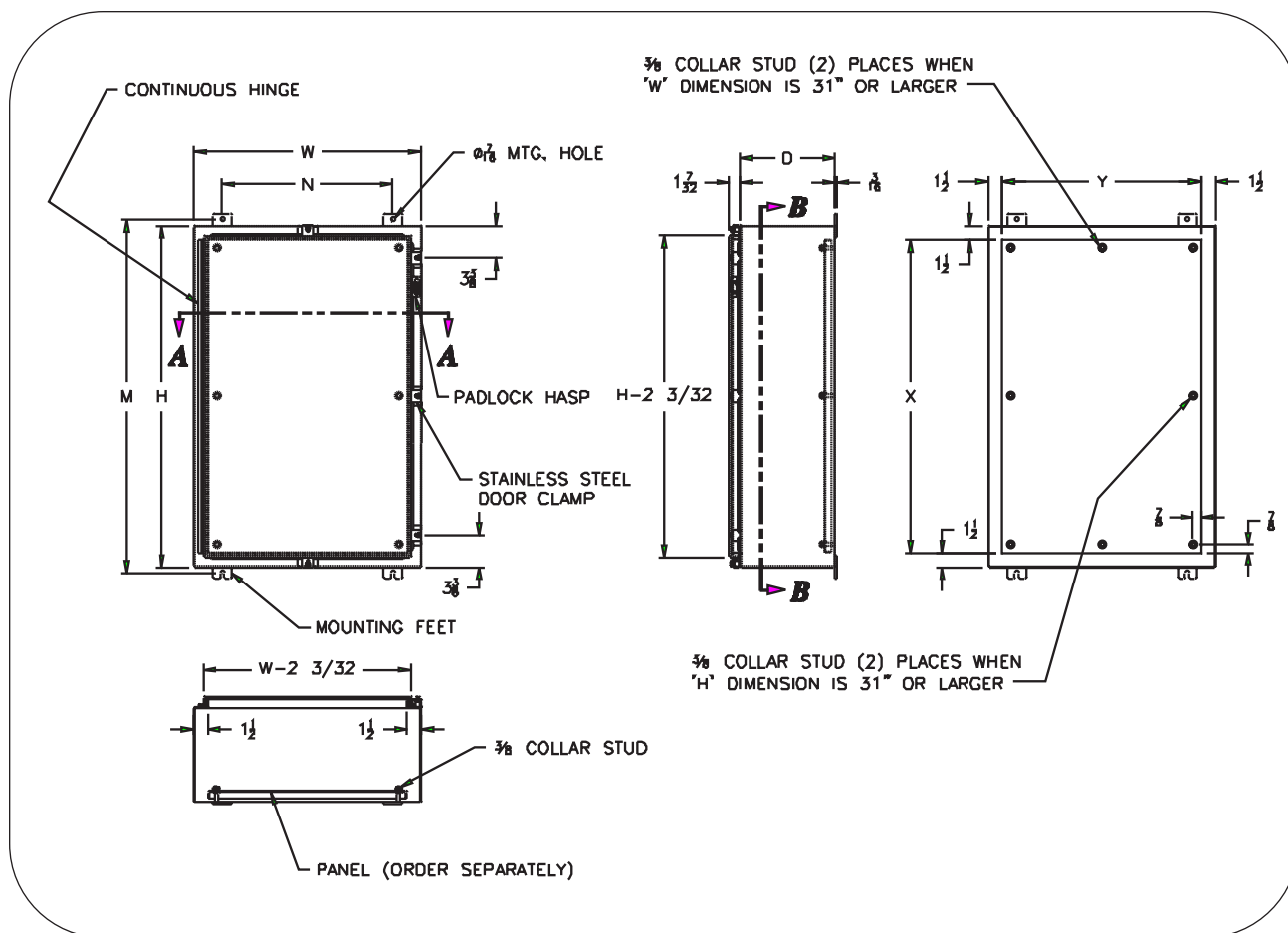
## Standards

All N4XA enclosures conform to the National Electrical Manufacturers Association (NEMA) standard for Type 3 (Dusttight, Raintight and Sleet / Ice Resistant), Type 3R (Rainproof and Sleet / Ice Resistant), Type 4 (Watertight and Dusttight), Type 4X (Watertight, Dusttight and Corrosion Resistant), Type 12 (Dusttight) and Type 13 (Oiltight and Dusttight) enclosures. They are listed by Underwriters Laboratories, Inc. (UL) for Canada and the United States.





# NEMA Type 4X Aluminum Single Door Enclosures



Item No.	Catalog No.	Dimensions (in) H x W x D	Material Thickness Box / Cover	Hold Downs		Mounting Dim. (in)		Weight (lbs)	Panel Catalog No.	Panel Size (in) X x Y
				H side	W side	M	N			
M11307	N4XA-161206	16 x 12 x 6	0.08 / 0.08	2	1	17.25	9.50	10	V1612	13.00 x 9.00
M11308	N4XA-201606	20 x 16 x 6	0.08 / 0.08	2	1	21.25	10.00	13	V2016	17.00 x 13.00
M11309	N4XA-202006	20 x 20 x 6	0.08 / 0.08	2	1	21.25	14.00	16	V2020	17.00 x 17.00
M11310	N4XA-242006	24 x 20 x 6	0.08 / 0.08	3	1	25.25	14.00	18	V2420	21.00 x 17.00
M11311	N4XA-161608	16 x 16 x 8	0.08 / 0.08	2	1	17.25	10.00	13	V1616	13.00 x 13.00
M11312	N4XA-242408	24 x 24 x 8	0.08 / 0.08	3	1	25.25	18.00	23	V2424	21.00 x 21.00
M11313	N4XA-302408	30 x 24 x 8	0.08 / 0.08	3	1	31.25	18.00	27	V3024	27.00 x 21.00
M11314	N4XA-362408	36 x 24 x 8	0.08 / 0.08	3	1	37.25	18.00	30	V3624	33.00 x 21.00
M11315	N4XA-363008	36 x 30 x 8	0.08 / 0.08	3	2	37.25	24.00	37	V3630	33.00 x 27.00
M11316	N4XA-483608	48 x 36 x 8	0.08 / 0.08	4	2	49.25	30.00	52	V4836	45.00 x 33.00
M11317	N4XA-201610	20 x 16 x 10	0.08 / 0.08	2	1	21.25	10.00	16	V2016	17.00 x 13.00
M11318	N4XA-242010	24 x 20 x 10	0.08 / 0.08	3	1	25.25	14.00	21	V2420	21.00 x 17.00
M11319	N4XA-302412	30 x 24 x 12	0.08 / 0.08	3	1	31.25	18.00	32	V3024	27.00 x 21.00
M11320	N4XA-363012	36 x 30 x 12	0.08 / 0.08	3	2	37.25	24.00	43	V3630	33.00 x 27.00

All dimensions in inches



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# NEMA Type 4X Pushbutton Fiberglass Enclosures

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## Application

The pushbutton fiberglass enclosure can be used indoors or outdoors to provide protection against dust, dirt, oil and water for items such as pushbuttons, pilot lights and switches. Designed for installation of standard 30mm operators.

## Construction

The pushbutton enclosures are constructed of compression molded, fiberglass reinforced polyester with covers flush with enclosure's sides. Cover gasket is a continuous urethane material. Cover screws are recessed and made of stainless steel. A metal grounding strap is supplied. Interior mounting wells are gasketed and sealed from the inside. There are no external mounting feet with this enclosure. Machine tool gray color.

## Panels

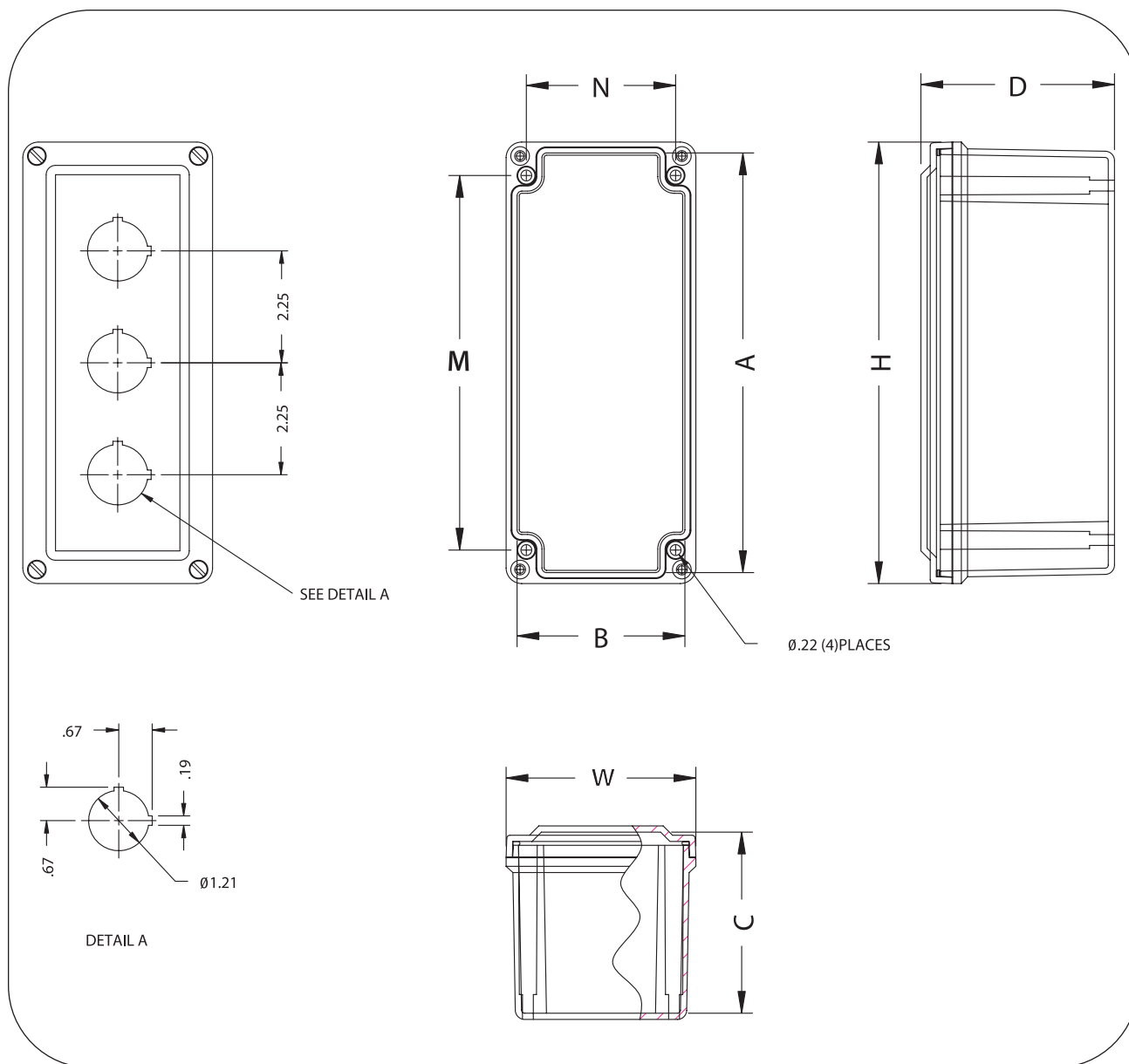
There are no panel provisions with these enclosures.

## Standards

All pushbutton fiberglass enclosures conform to the National Electrical Manufacturers Association (NEMA) standard for Type 3 (Dusttight, Raintight and Sleet / Ice Resistant), Type 4X (Watertight, Dusttight and Corrosion Resistant), and Type 12 (Dusttight). They are listed by Underwriters Laboratories, Inc. (UL) for Canada and the United States.



# NEMA Type 4X Pushbutton Fiberglass Enclosures



Item No.	Catalog No.	Overall Dimensions (in)	Inside Dim. (in)	Mounting Dim. (in)		Weight (lbs)	Panel Catalog No.	Panel Size (in)
		H x W x D	A x B x C	M	N			
28950	N4X-FG-1PB	6.63 x 3.81 x 3.89	6 x 3.19 x 3.63	4.88	2.94	2	No Panel	NA
28951	N4X-FG-2PB	6.63 x 3.81 x 3.89	6 x 3.19 x 3.63	4.88	2.94	2	No Panel	NA
28952	N4X-FG-3PB	8.88 x 3.81 x 3.89	8.26 x 3.19 x 3.63	7.13	2.94	2	No Panel	NA

All dimensions in inches



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# NEMA Type 4X Flush Cover Fiberglass Enclosures

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## TOUGH CONDITIONS?

Fiberglass enclosures are a great choice for protecting your components against the toughest elements in the harshest environments such as water treatment facilities, irrigation systems, marinas, oil refineries and chemical processing plants. If you have questions about what enclosure is right for your application, just ask us!

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## Application

The flush cover fiberglass enclosure can be used indoors or outdoors to house items such as standard size pushbuttons, pilot lights and switches. These enclosures are designed to protect against dust, dirt, oil and water.

## Construction

The flush cover enclosures are constructed of compression molded, fiberglass reinforced polyester. The covers are flush with sides of enclosure. Cover gasket is a continuous urethane material. Recessed cover screws are made of stainless steel. Interior mounting wells are gasketed and sealed from the inside. There are no external mounting feet with this enclosure. Machine tool gray color.

## Panels

There are no panel provisions with these enclosures.

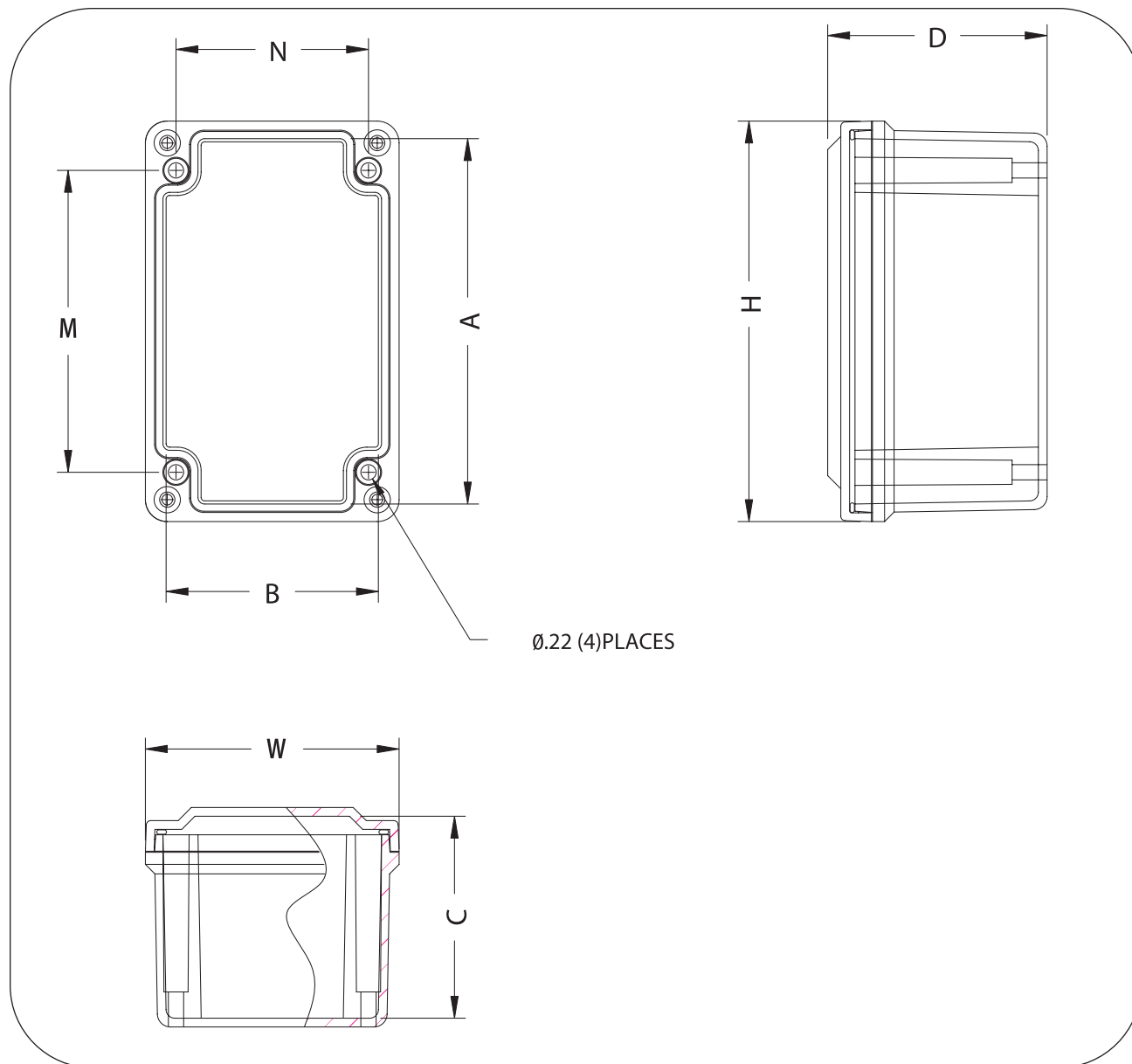
## Standards

All flush cover fiberglass enclosures conform to the National Electrical Manufacturers Association (NEMA) standard for Type 3 (Dusttight, Raintight and Sleet / Ice Resistant), Type 4X (Watertight, Dusttight and Corrosion Resistant), Type 12 (Dusttight) and Type 6P (Prolonged Submersion in Water). They are listed by Underwriters Laboratories, Inc. (UL) for Canada and the United States.





# NEMA Type 4X Flush Cover Fiberglass Enclosures



Item No.	Catalog No.	Overall Dimensions (in)	Inside Dim. (in)	Mounting Dim. (in)		Weight (lbs)	Panel Catalog No.	Panel Size (in)
		H x W x D	A x B x C	M	N			
23330	N4X-FG-030302	3.72 x 3.63 x 2.95	3.13 x 3.03 x 2.70	2.31	2.75	1	No Panel	NA
23331	N4X-FG-050302	5.97 x 3.63 x 3.14	5.38 x 3.03 x 2.87	4.56	2.75	1	No Panel	NA
23332	N4X-FG-060404	6.63 x 3.81 x 3.89	6 x 3.19 x 3.63	4.88	2.94	2	No Panel	NA
23333	N4X-FG-080404	8.88 x 3.81 x 3.89	8.26 x 3.19 x 3.63	7.13	2.94	2	No Panel	NA
23334	N4X-FG-110404	11.13 x 3.81 x 3.89	10.51 x 3.19 x 3.63	9.37	2.94	2	No Panel	NA

All dimensions in inches



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# NEMA Type 4X Small Screw Cover Fiberglass Enclosures

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## Application

The screw cover junction fiberglass enclosure can be used indoors or outdoors to house items such as standard size pushbuttons, pilot lights and switches. These enclosures are designed to protect against dust, dirt, oil and water.

## Construction

The screw cover junction enclosures are constructed of compression molded, fiberglass reinforced polyester. The covers are flush with sides of enclosure. The captive cover screws are made of stainless steel. The cover gasket is a continuous urethane material. Interior panel mounting inserts are molded to enclosure. There are no external mounting feet with this enclosure. Machine tool gray color.

## Panels

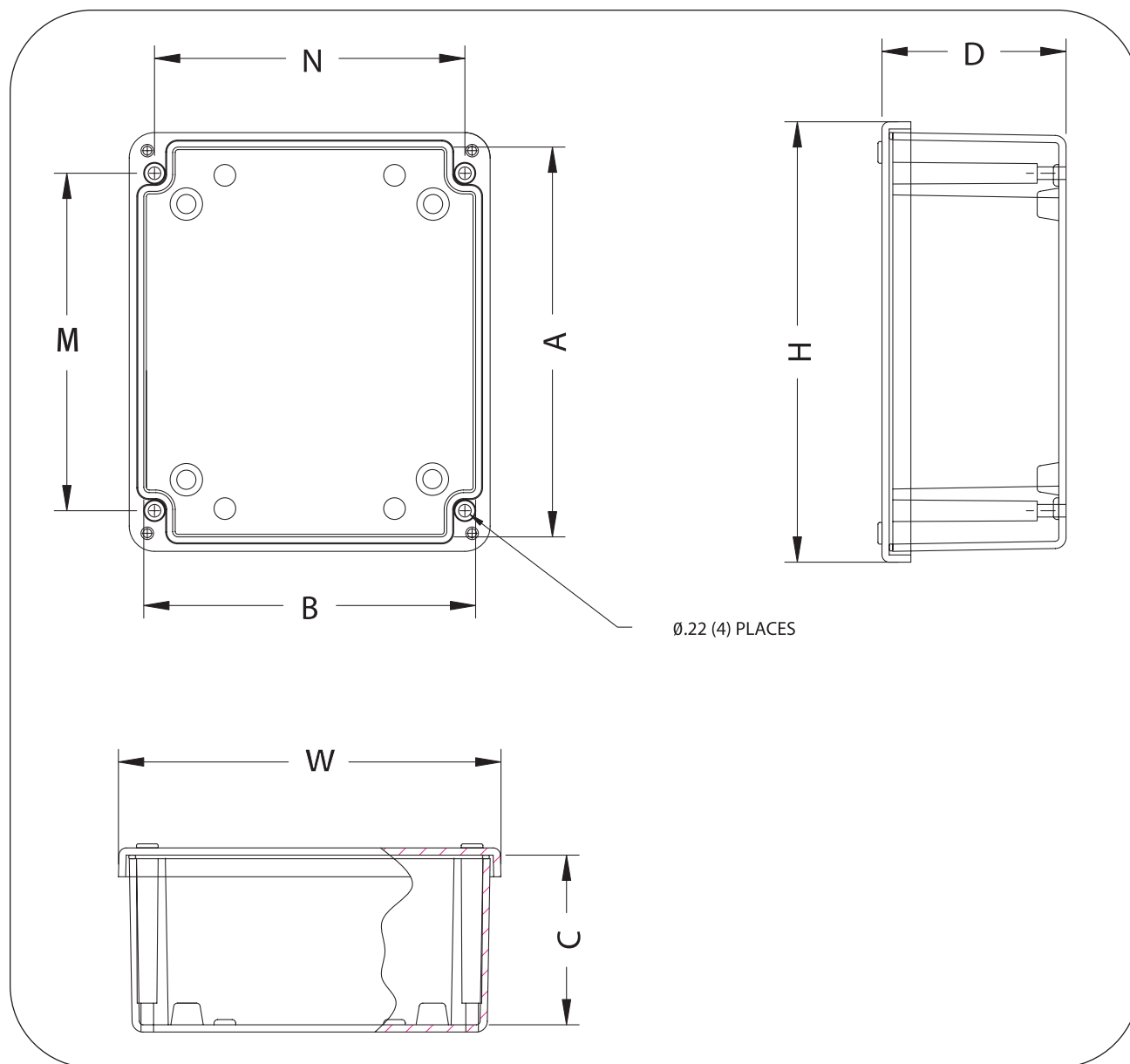
Panels are not available with these enclosures.

## Standards

All small screw cover junction fiberglass enclosures conform to the National Electrical Manufacturers Association (NEMA) standard for Type 3 (Dusttight, Raintight and Sleet / Ice Resistant), Type 4X (Watertight, Dusttight and Corrosion Resistant), Type 12 (Dusttight) and Type 6P (Prolonged Submersion in Water). They are listed by Underwriters Laboratories, Inc. (UL) for Canada and the United States.



# NEMA Type 4X Small Screw Cover Fiberglass Enclosures



Item No.	Catalog No.	Overall Dimensions (in)	Inside Dim. (in)	Mounting Dim. (in)		Weight (lbs)	Panel Catalog No.	Panel Size (in)
		H x W x D	A x B x C	M	N			
23335	N4X-FG-070603	7.63 x 6.63 x 3.19	6.90 x 5.90 x 2.88	5.37	5.63	2	No Panel	NA
23336	N4X-FG-090603	9.87 x 6.63 x 3.19	9.15 x 5.90 x 2.88	7.62	5.63	2	No Panel	NA

All dimensions in inches



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## Application

The screw cover fiberglass enclosure can be used indoors or outdoors to provide protection against dust, dirt, oil and water. It is designed for use as a terminal wiring box, instrumentation housing or electrical control enclosure.

## Construction

The screw cover enclosures are constructed of compression molded, fiberglass reinforced polyester with stainless steel captive cover screws. The cover gasket is a continuous urethane material. A stainless steel retaining chain is attached to the cover and enclosure. Panel mounting inserts are molded to interior of enclosure. External mounting feet are also molded to enclosure. Machine tool gray color.

## Panels

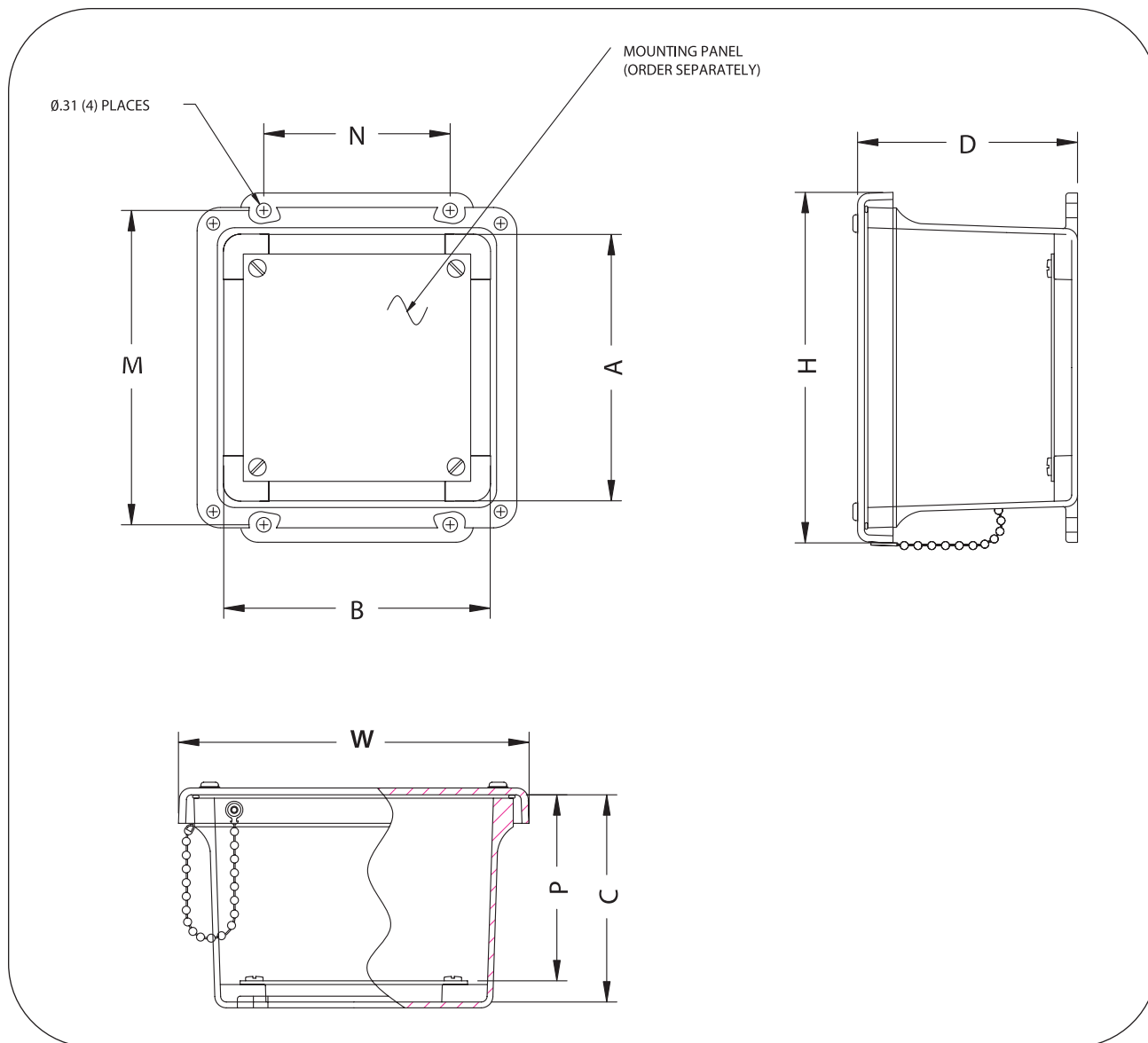
Optional panels are available. Panels fabricated of 0.080" aluminum.

## Standards

All screw cover fiberglass enclosures conform to the National Electrical Manufacturers Association (NEMA) standard for Type 3 (Dusttight, Raintight and Sleet / Ice Resistant), Type 4X (Watertight, Dusttight and Corrosion Resistant), Type 12 (Dusttight) and Type 6P (Prolonged Submersion in Water). They are listed by Underwriters Laboratories, Inc. (UL) for Canada and the United States.



# NEMA Type 4X Screw Cover Fiberglass Enclosures



Item No.	Catalog No.	Overall Dimensions (in)		Inside Dim. (in)		Mounting Dim. (in)		Weight (lbs)	Panel Catalog No.	Panel Size (in)
		H x W x D		A x B x C		M	N			
23337	N4X-FG-060604SC	7.50 x 7.50 x 4.75		5.72 x 5.72 x 4.45		6.75	4.00	3	BP66A	4.88 x 4.88
23338	N4X-FG-080604SC	9.62 x 7.50 x 4.74		7.73 x 5.74 x 4.45		8.88	4.00	4	BP86A	6.88 x 4.88
23339	N4X-FG-100804SC	11.62 x 9.41 x 4.25		9.73 x 7.73 x 3.98		10.75	6.00	5	BP108A	8.88 x 6.88
23340	N4X-FG-121005SC	13.56 x 11.43 x 5.21		11.79 x 9.80 x 4.94		12.75	8.00	7	BP1210A	10.88 x 8.88
23341	N4X-FG-141206SC	15.50 x 13.50 x 6.25		13.53 x 11.55 x 5.94		14.62	10.00	9	BP1412A	12.88 x 10.88

All dimensions in inches



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# NEMA Type 4X Hinged Screw Cover Fiberglass Enclosures

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**ADALET**  
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## Application

The hinged screw cover fiberglass enclosure can be used indoors or outdoors to provide protection against dust, dirt, oil and water. It is designed for use as a terminal wiring box, instrumentation housing or electrical control enclosure where a hinged cover is desired.

## Construction

The hinged screw cover enclosures are constructed of compression molded, fiberglass reinforced polyester. Enclosure includes a stainless steel continuous hinge with stainless steel captive cover screws. The cover gasket is a continuous urethane material. Panel mounting inserts are molded to interior of enclosure. External mounting feet are also molded to enclosure. Machine tool gray color.

## Panels

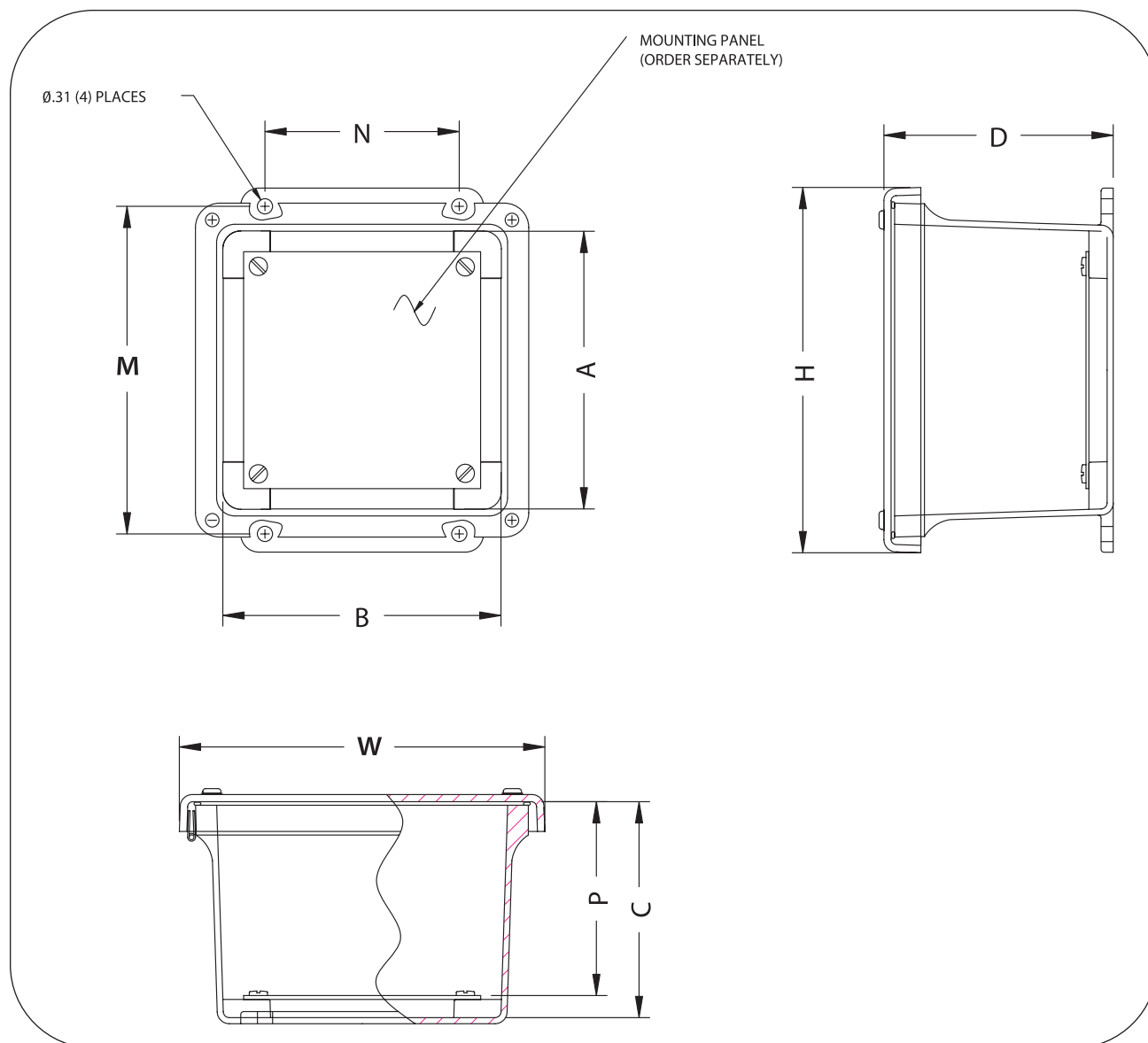
Optional panels are available. Panels fabricated of 0.080" aluminum.

## Standards

All hinged screw cover fiberglass enclosures conform to the National Electrical Manufacturers Association (NEMA) standard for Type 3 (Dusttight, Raintight and Sleet / Ice Resistant), Type 4X (Watertight, Dusttight and Corrosion Resistant), Type 12 (Dusttight) and Type 6P (Prolonged Submersion in Water). They are listed by Underwriters Laboratories, Inc. (UL) for Canada and the United States.



# NEMA Type 4X Hinged Screw Cover Fiberglass Enclosures



Item No.	Catalog No.	Overall Dimensions (in) H x W x D	Inside Dim. (in) A x B x C	Mounting Dim. (in) M N	Weight (lbs)	Panel Catalog No.	Panel Size (in)
23342	N4X-FG-060604CHSC	7.50 x 7.50 x 4.75	5.72 x 5.72 x 4.45	6.75 4	3	BP66A	4.88 x 4.88
23343	N4X-FG-080604CHSC	9.62 x 7.50 x 4.74	7.73 x 5.74 x 4.45	8.88 4	4	BP86A	6.88 x 4.88
23344	N4X-FG-100804CHSC	11.62 x 9.41 x 4.25	9.73 x 7.73 x 3.98	10.75 6	5	BP108A	8.88 x 6.88
23345	N4X-FG-121005CHSC	13.56 x 11.43 x 5.21	11.79 x 9.80 x 4.94	12.75 8	7	BP1210A	10.88 x 8.88
23346	N4X-FG-141206CHSC	15.50 x 13.50 x 6.25	13.53 x 11.55 x 5.94	14.62 10	9	BP1412A	12.88 x 10.90
23347	N4X-FG-161406CHSC	17.53 x 15.46 x 6.23	15.63 x 13.60 x 5.94	16.75 12	12	BP1614A	14.88 x 12.90
23348	N4X-FG-181608CHSC	19.62 x 17.61 x 8.82	17.96 x 15.69 x 8.45	18.88 12	19	BP1816A	16.88 x 14.90

All dimensions in inches



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# NEMA Type 4X Quick Release Latch Fiberglass Enclosures – Flat Cover

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## Application

The quick release latch fiberglass enclosure can be used indoors or outdoors to provide protection against dust, dirt, oil and water. It is designed for use as a terminal wiring box, instrumentation housing or electrical control enclosure where a hinged cover is desired.

## Construction

The quick release latch enclosures are constructed of compression molded, fiberglass reinforced polyester. Enclosure includes a stainless steel continuous hinge and stainless steel quick release latches with padlock hasps. The cover gasket is a continuous urethane material. Panel mounting inserts are molded to interior of enclosure. External mounting feet are also molded to enclosure. Machine tool gray color.

## Panels

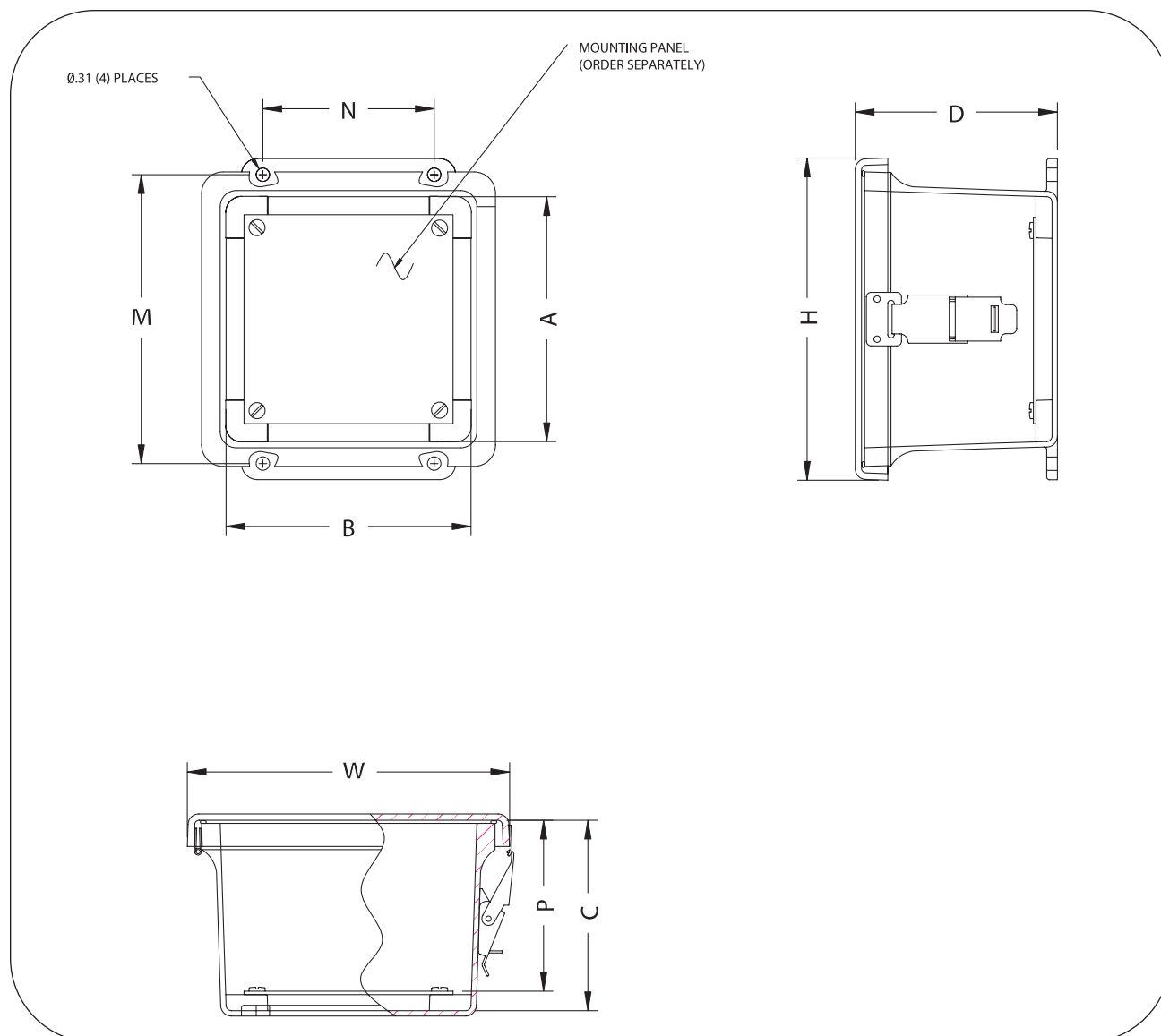
Optional panels are available. Panels fabricated of 0.080" or 0.090" aluminum.

## Standards

All flat cover quick release latch fiberglass enclosures conform to the National Electrical Manufacturers Association (NEMA) standard for Type 3 (Dusttight, Raintight and Sleet / Ice Resistant), Type 4X (Watertight, Dusttight and Corrosion Resistant), Type 12 (Dusttight) and Type 6P (Prolonged Submersion in Water). They are listed by Underwriters Laboratories, Inc. (UL) for Canada and the United States.



# NEMA Type 4X Quick Release Latch Fiberglass Enclosures – Flat Cover



Item No.	Catalog No.	Overall Dimensions (in)			Inside Dim. (in)		Mounting Dim. (in)		Weight (lbs)	Panel Catalog No.	Panel Size (in)
		H	W	D	A	B x C	M	N			
23362	N4X-FG-060604CHQR	7.50	7.50	4.75	5.72	5.72 x 4.45	6.75	4	3	BP66A	4.88 x 4.88
23363	N4X-FG-080604CHQR	9.62	7.50	4.74	7.73	5.74 x 4.45	8.88	4	4	BP86A	6.88 x 4.88
23364	N4X-FG-100804CHQR	11.62	9.41	4.25	9.73	7.73 x 3.98	10.75	6	5	BP108A	8.88 x 6.88
23365	N4X-FG-121005CHQR	13.56	11.43	5.21	11.79	9.80 x 4.94	12.75	8	7	BP1210A	10.88 x 8.88
23366	N4X-FG-141206CHQR	15.50	13.50	6.25	13.53	11.55 x 5.94	14.62	10	9	BP1412A	12.88 x 10.90
23367	N4X-FG-161406CHQR	17.53	15.46	6.23	15.63	13.60 x 5.94	16.75	12	12	BP1614A	14.88 x 12.90
23368	N4X-FG-181608CHQR	19.62	17.61	8.82	17.69	15.69 x 8.45	18.88	12	19	BP1816A	16.88 x 14.90
23369	N4X-FG-201608CHQR	21.69	17.69	8.84	19.72	15.72 x 8.45	21.25	10	21	BP2016A	17.00 x 13.00

All dimensions in inches



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# NEMA Type 4X Twist Latch Fiberglass Enclosures – Flat Cover

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## Application

The twist latch fiberglass enclosure can be used indoors or outdoors to provide protection against dust, dirt, oil and water. It is designed for use as a terminal wiring box, instrumentation housing or electrical control enclosure where a hinged cover is desired.

## Construction

The twist latch enclosures are constructed of compression molded, fiberglass reinforced polyester. Enclosure includes a stainless steel continuous hinge and stainless steel twist latches. The cover gasket is a continuous urethane material. Panel mounting inserts are molded to interior of enclosure. External mounting feet are also molded to enclosure. Machine tool gray color.

## Panels

Optional panels are available. Panels fabricated of 0.080" or 0.090" aluminum.

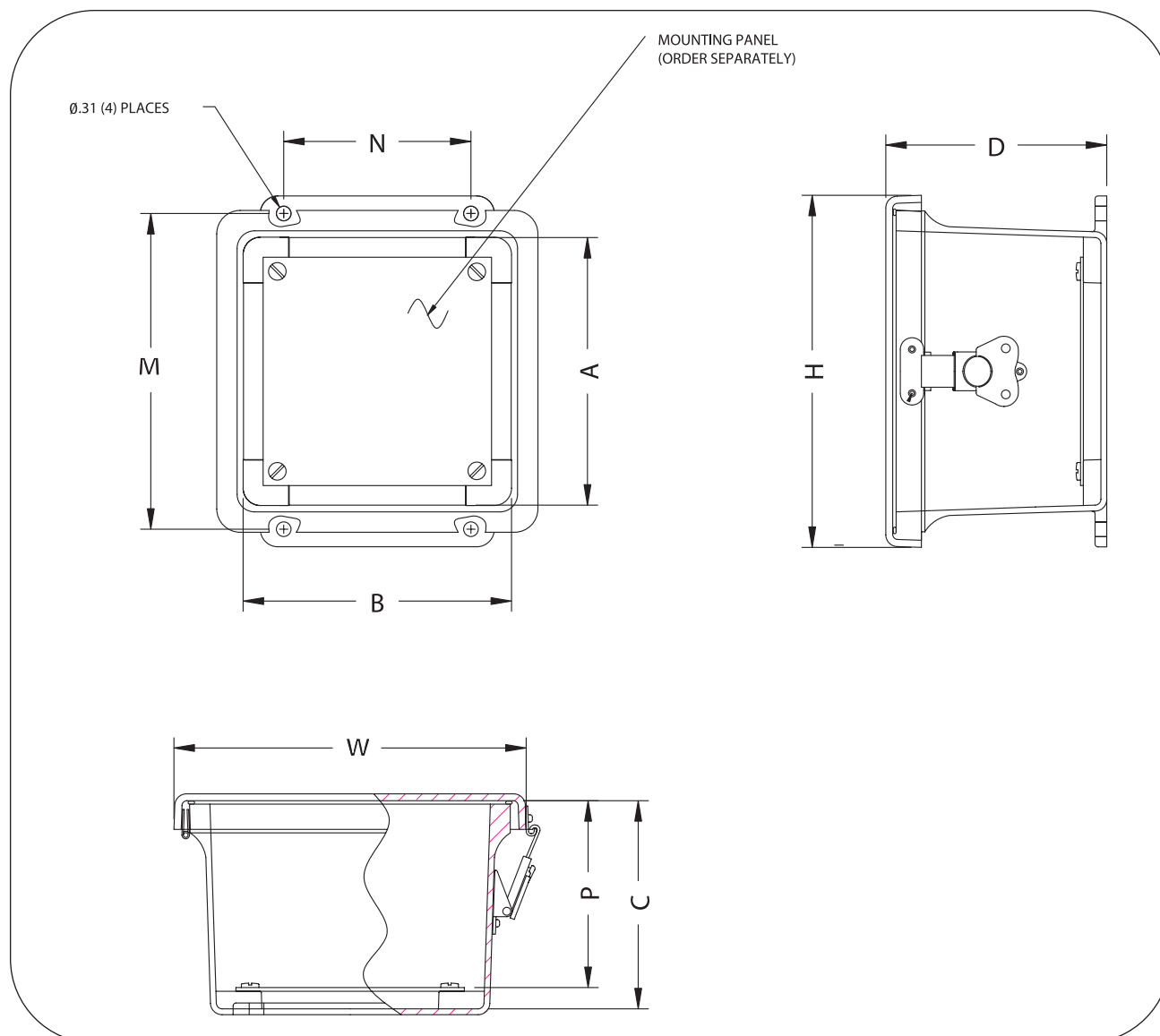
## Standards

All flat cover twist latch fiberglass enclosures conform to the National Electrical Manufacturers Association (NEMA) standard for Type 3 (Dusttight, Raintight and Sleet / Ice Resistant), Type 4X (Watertight, Dusttight and Corrosion Resistant), Type 12 (Dusttight) and Type 6P (Prolonged Submersion in Water). They are listed by Underwriters Laboratories, Inc. (UL) for Canada and the United States.





# NEMA Type 4X Twist Latch Fiberglass Enclosures – Flat Cover



Item No.	Catalog No.	Overall Dimensions (in) H x W x D	Inside Dim. (in) A x B x C	Mounting Dim. (in) M N	Weight (lbs)	Panel Catalog No.	Panel Size (in)
23349	N4X-FG-060604CHTL	7.50 x 7.50 x 4.75	5.72 x 5.72 x 4.45	6.75 4	3	BP66A	4.88 x 4.88
23350	N4X-FG-080604CHTL	9.62 x 7.50 x 4.74	7.73 x 5.74 x 4.45	8.88 4	4	BP86A	6.88 x 4.88
23351	N4X-FG-100804CHTL	11.62 x 9.41 x 4.25	9.73 x 7.73 x 3.98	10.75 6	5	BP108A	8.88 x 6.88
23352	N4X-FG-121005CHTL	13.56 x 11.43 x 5.21	11.79 x 9.80 x 4.94	12.75 8	7	BP1210A	10.88 x 8.88
23353	N4X-FG-141206CHTL	15.50 x 13.50 x 6.25	13.53 x 11.55 x 5.94	14.62 10	9	BP1412A	12.88 x 10.90
23354	N4X-FG-161406CHTL	17.53 x 15.46 x 6.23	15.63 x 13.60 x 5.94	16.75 12	12	BP1614A	14.88 x 12.90
23355	N4X-FG-181608CHTL	19.62 x 17.61 x 8.82	17.69 x 15.69 x 8.45	18.88 12	19	BP1816A	16.88 x 14.99
23356	N4X-FG-201608CHTL	21.69 x 17.69 x 8.84	19.72 x 15.72 x 8.45	21.25 10	21	BP2016A	17.00 x 13.00

All dimensions in inches



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# NEMA Type 4X Raised Cover Fiberglass Enclosures – Quick Release Latch

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## Application

The raised cover quick release latch fiberglass enclosure can be used indoors or outdoors to provide protection against dust, dirt, oil and water. It is designed for use as a terminal wiring box, instrumentation housing or electrical control enclosure where a hinged cover is desired. It is also designed for use when components require additional depth.

## Construction

The raised cover quick release latch enclosures are constructed of compression molded, fiberglass reinforced polyester. Enclosure includes a stainless steel continuous hinge and stainless steel quick release latches with padlock hasps. The cover gasket is a continuous urethane material. Panel mounting inserts are molded to interior of enclosure. External mounting feet are also molded to enclosure. Machine tool gray color.

## Panels

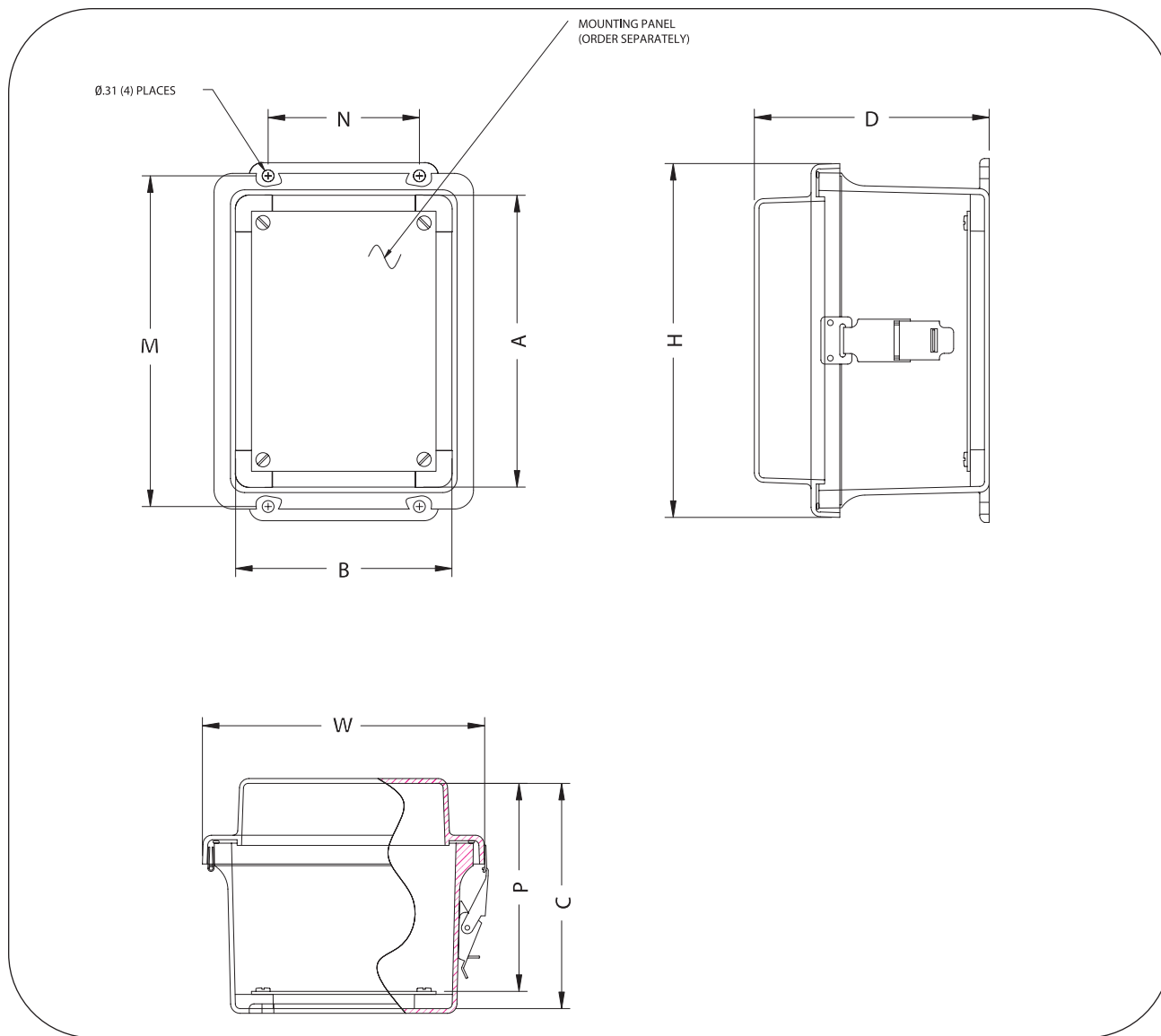
Optional panels are available. Panels fabricated of 0.080" or 0.090" aluminum.

## Standards

All raised cover quick release latch fiberglass enclosures conform to the National Electrical Manufacturers Association (NEMA) standard for Type 3 (Dusttight, Raintight and Sleet / Ice Resistant), Type 4X (Watertight, Dusttight and Corrosion Resistant), Type 12 (Dusttight) and Type 6P (Prolonged Submersion in Water). They are listed by Underwriters Laboratories, Inc. (UL) for Canada and the United States.



# NEMA Type 4X Raised Cover Fiberglass Enclosures – Quick Release Latch



Item No.	Catalog No.	Overall Dimensions (in) H x W x D	Inside Dim. (in) A x B x C	Mounting Dim. (in) M N	Weight (lbs)	Panel Catalog No.	Panel Size (in)
23370	N4X-FG-080606RCHQR	9.62 x 7.46 x 6.22	7.73 x 5.74 x 5.95	8.88 4	4	BP86A	6.88 x 4.88
23371	N4X-FG-100806RCHQR	11.62 x 9.37 x 6.61	9.73 x 7.73 x 6.36	10.75 6	5	BP108A	8.88 x 6.88
23372	N4X-FG-121006RCHQR	13.56 x 11.43 x 6.61	11.79 x 9.80 x 6.32	12.75 8	7	BP1210A	10.88 x 8.88
23373	N4X-FG-141207RCHQR	15.50 x 13.38 x 7.69	13.53 x 11.55 x 7.45	14.62 10	9	BP1412A	12.88 x 10.90
23374	N4X-FG-161407RCHQR	17.53 x 15.43 x 7.71	15.63 x 13.60 x 7.45	16.75 12	12	BP1614A	14.88 x 12.90
23375	N4X-FG-181610RCHQR	19.62 x 17.48 x 10.62	17.69 x 15.69 x 10.31	18.88 12	19	BP1816A	16.88 x 14.90
23376	N4X-FG-201610RCHQR	21.56 x 17.56 x 10.66	19.72 x 15.72 x 10.33	21.25 10	21	BP2016A	17.00 x 13.00

All dimensions in inches



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# NEMA Type 4X Raised Cover Fiberglass Enclosures – Twist Latch

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## Application

The raised cover twist latch fiberglass enclosure can be used indoors or outdoors to provide protection against dust, dirt, oil and water. It is designed for use as a terminal wiring box, instrumentation housing or electrical control enclosure where a hinged cover is desired. It is also designed for use when components require additional depth.

## Construction

The raised cover twist latch enclosures are constructed of compression molded, fiberglass reinforced polyester. Enclosure includes a stainless steel continuous hinge and stainless steel twist latches. The cover gasket is a continuous urethane material. Panel mounting inserts are molded to interior of enclosure. External mounting feet are also molded to enclosure. Machine tool gray color.

## Panels

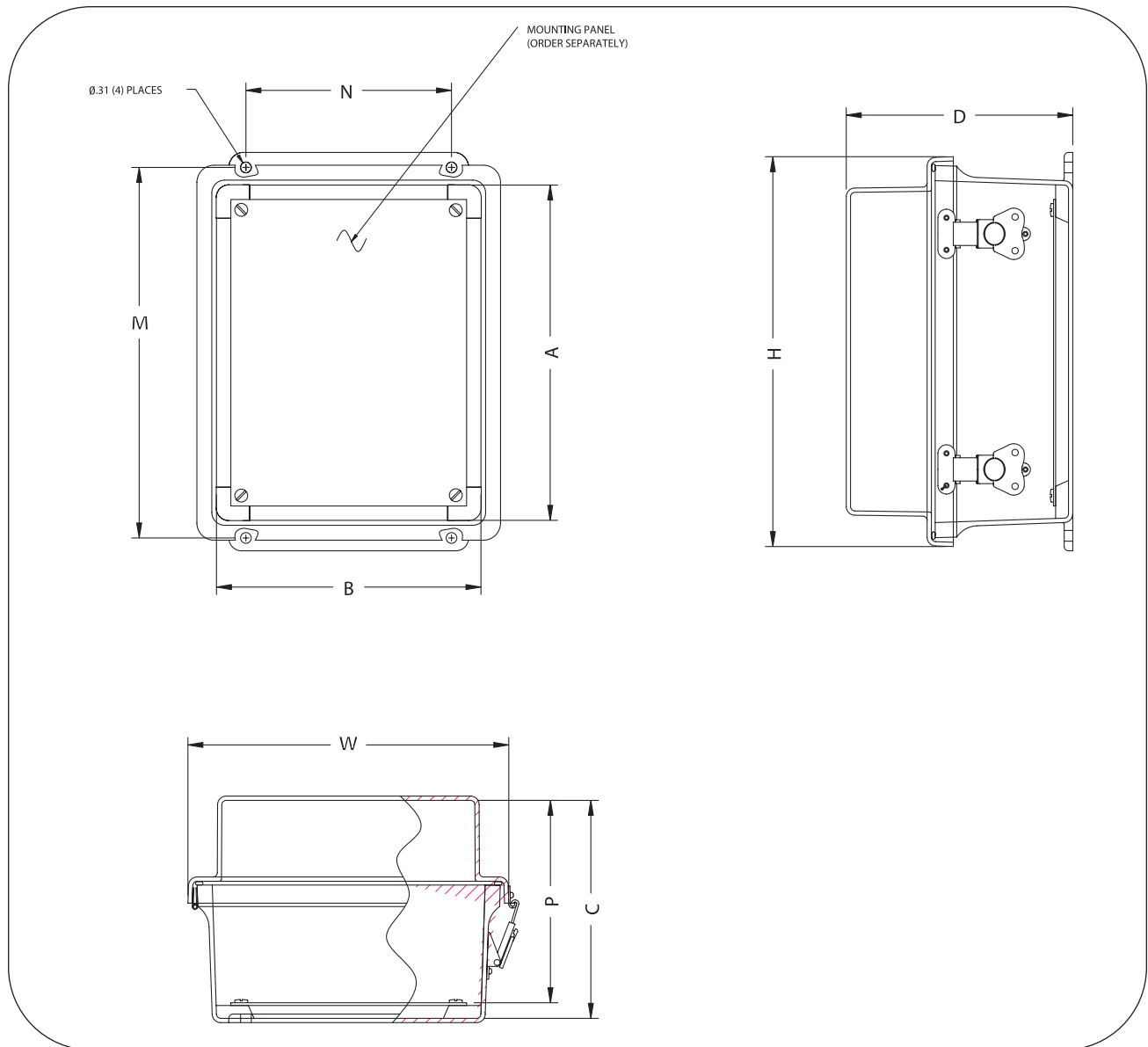
Optional panels are available. Panels fabricated of 0.080" or 0.090" aluminum.

## Standards

All raised cover twist latch fiberglass enclosures conform to the National Electrical Manufacturers Association (NEMA) standard for Type 3 (Dusttight, Raintight and Sleet / Ice Resistant), Type 4X (Watertight, Dusttight and Corrosion Resistant), Type 12 (Dusttight) and Type 6P (Prolonged Submersion in Water). They are listed by Underwriters Laboratories, Inc. (UL) for Canada and the United States.



# NEMA Type 4X Raised Cover Fiberglass Enclosures – Twist Latch



Item No.	Catalog No.	Overall Dimensions (in) H x W x D	Inside Dim. (in) A x B x C	Mounting Dim. (in)		Weight (lbs)	Panel Catalog No.	Panel Size (in)
23357	N4X-FG-100806RCHTL	11.62 x 9.37 x 6.61	9.73 x 7.73 x 6.36	10.75	6	5	BP108A	8.88 x 6.88
23358	N4X-FG-121006RCHTL	13.56 x 11.43 x 6.61	11.79 x 9.80 x 6.32	12.75	8	7	BP1210A	10.88 x 8.88
23359	N4X-FG-141207RCHTL	15.50 x 13.38 x 7.69	13.53 x 11.55 x 7.45	14.62	10	9	BP1412A	12.88 x 10.90
23360	N4X-FG-161407RCHTL	17.53 x 15.43 x 7.71	15.63 x 13.60 x 7.45	16.75	12	12	BP1614A	14.88 x 12.90
23361	N4X-FG-181610RCHTL	19.62 x 17.48 x 10.62	17.69 x 15.69 x 10.31	18.88	12	19	BP1816A	16.88 x 14.90

All dimensions in inches



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# NEMA Type 4X Large Control Fiberglass Enclosures

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## Application

The large control fiberglass enclosure can be used indoors or outdoors to provide protection against dust, dirt, oil and water. It is designed to house items such as electronic or electrical controls, instrumentation systems and mechanical controls.

## Construction

The large control enclosures are constructed of compression molded, fiberglass reinforced polyester. Enclosure includes a stainless steel continuous hinge and stainless steel twist latches. A padlock hasp is also included. The cover gasket is a continuous urethane material. Panel mounting inserts are molded to interior of enclosure. External mounting feet are also molded to enclosure. Machine tool gray color.

## Panels

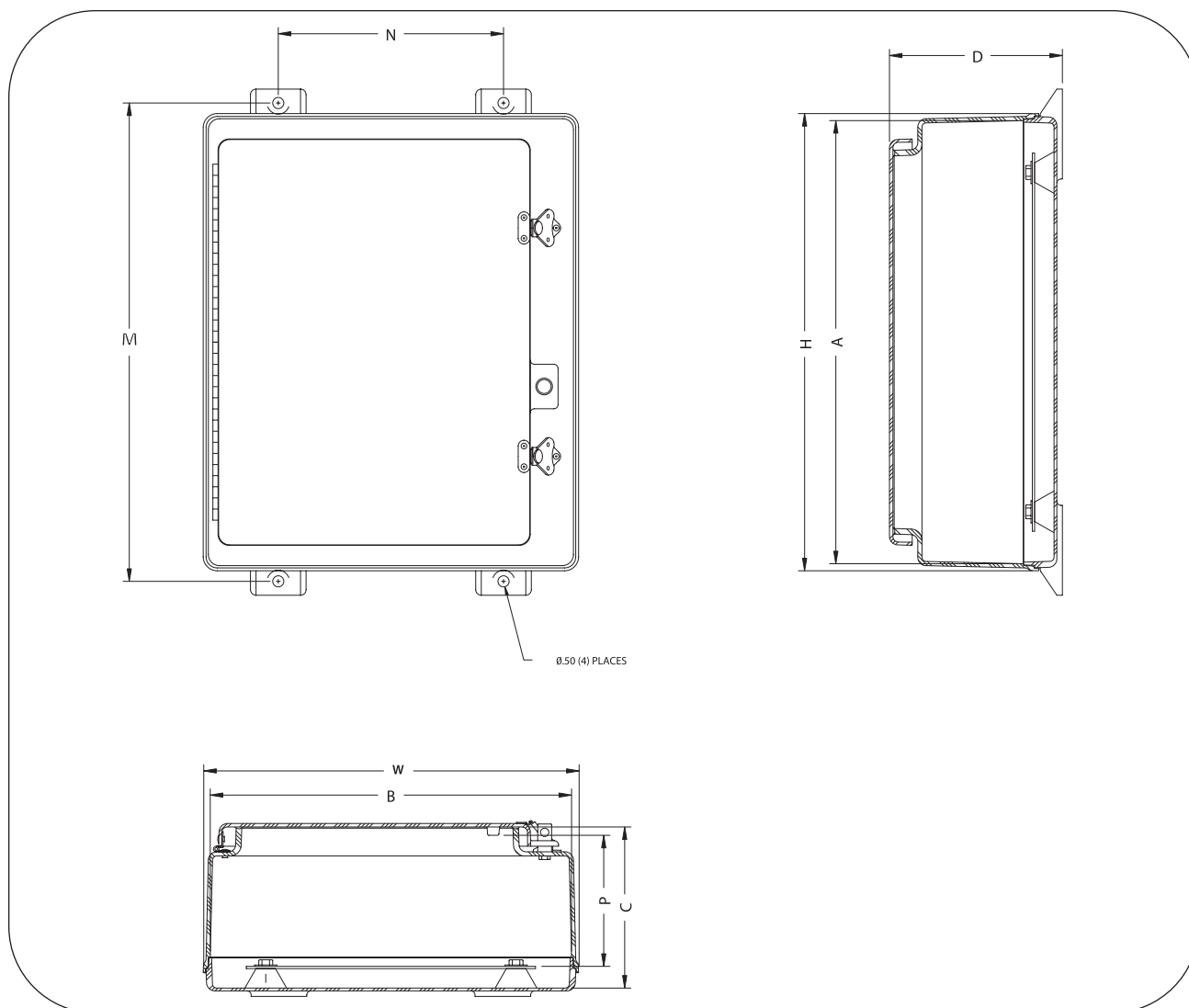
Optional panels are available. Panels fabricated of 0.090" or 0.130" aluminum.

## Standards

All large control enclosures conform to the National Electrical Manufacturers Association (NEMA) standard for Type 3 (Dusttight, Raintight and Sleet / Ice Resistant), Type 4X (Watertight, Dusttight and Corrosion Resistant), and Type 12 (Dusttight). They are listed by Underwriters Laboratories, Inc. (UL) for Canada and the United States.



# NEMA Type 4X Large Control Fiberglass Enclosures



Item No.	Catalog No.	Overall Dimensions (in)	Inside Dimensions (in)	Mounting Dim. (in)		Weight (lbs)	Panel Catalog No.	Panel Size (in)
		H x W x D	A x B x C	M	N			
23378	N4X-FG-201606CH	22.75 x 16.87 x 7.77	19.70 x 16.04 x 7.24	21.5	10.12	17	BPN2016A	17.00 x 13.00
23379	N4X-FG-201608CH	22.75 x 16.87 x 9.77	19.70 x 16.04 x 9.24	21.5	10.12	22	BPN2016A	17.00 x 13.00
23381	N4X-FG-201612CH	22.75 x 16.87 x 13.77	19.70 x 16.04 x 13.24	21.5	10.12	24	BPN2016A	17.00 x 13.00
23383	N4X-FG-242008CH	27.00 x 21.24 x 9.90	24.05 x 20.39 x 9.25	25.75	14	32	BP2420A	21.00 x 17.00
23384	N4X-FG-242410CH	27.00 x 25.24 x 11.90	24.05 x 24.39 x 11.25	25.75	17.87	42	BP2424A	21.00 x 21.00
23388	N4X-FG-302410CH	33.41 x 26.32 x 11.95	30.46 x 25.47 x 11.27	32.25	18.5	50	BP3024A	27.00 x 21.00
23389	N4X-FG-302412CH	33.41 x 26.32 x 13.79	30.46 x 25.47 x 13.10	32.25	18.5	54	BP3024A	27.00 x 21.00
23390	N4X-FG-363010CH	39.31 x 32.50 x 12.05	36.31 x 31.69 x 11.36	38.13	23.88	78	BP3630A	33.00 x 27.00
23391	N4X-FG-363012CH	39.31 x 32.50 x 14.05	36.31 x 31.69 x 13.36	38.13	23.88	81	BP3630A	33.00 x 27.00
23392	N4X-FG-483616CH	51.29 x 36.62 x 17.93	48.33 x 36.22 x 17.25	50.12	29.25	108	BP4836A	45.00 x 33.00

All dimensions in inches



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# NEMA Type 12 JIC Wall Mount Enclosures – Continuous Hinge Cover

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## Application

Ralston's IBOH series wall-mounted JIC enclosures are designed for indoor use to provide a degree of protection against dust and dirt, and spraying of water, oil or coolant. They are for use as electrical junction boxes, terminal wiring boxes, instrument housings and electrical control enclosures.

## Construction

Ralston's IBOH enclosures are made from 14 ga. cold rolled steel. All seams are continuously welded and ground to a smooth finish. Enclosures come complete with four 1/4-20 collar studs (for mounting panels). Grounding studs are provided on the inside of the box and door and wall mounting back brackets are welded on the outside top and bottom. The IBOH door is secured to the enclosure with a continuous piano hinge on one side and door clamping hardware on the opposite side. The door is sealed with a one piece oil resistant soft neoprene gasket. There are no knock-outs or holes in the cover or body.

## Panels

Panels are included and fabricated from 14 ga. cold rolled steel.

## Finish

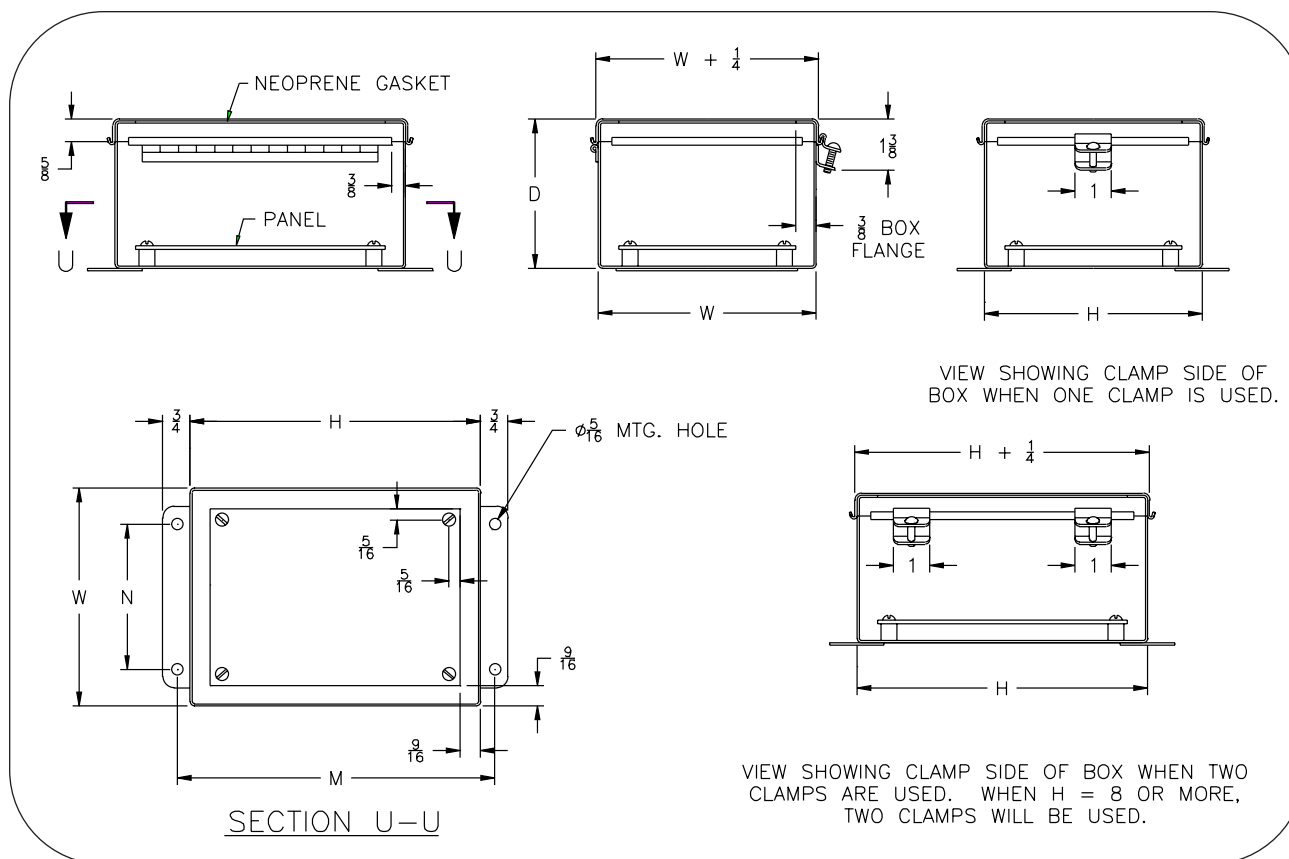
All enclosures are phosphatized and finished inside and out with ANSI/ASA 61 gray polyester powder coating. Panels are finished with a high gloss white polyester powder coating.

## Standards

All IBOH enclosures conform to the National Electrical Manufacturers Association (NEMA) standard for Type 12 (Industrial Use) and Type 13 (Oiltight and Dusttight) enclosures. These enclosures conform to Joint Industry Council (JIC) standard EGP-1-1967. They are listed by Underwriters' Laboratories, Inc. (UL) and are certified by the Canadian Standards Association (CSA).



# NEMA Type 12 JIC Wall Mount Enclosures – Continuous Hinge Cover



Item No.	Catalog No.	Dimensions (in) H x W x D	Material Thickness Box / Cover	Hold Downs H side W side	Mounting Dim. (in) M N	Weight (lbs)	Panel Catalog No.	Panel Size (in)
28290	IBOH-040403	4 x 4 x 3	14 / 14	1 0	4.75 2.00	2	No Panel	–
28291	IBOH-060403	6 x 4 x 3	14 / 14	1 0	6.75 2.00	3	06P04	4.88 x 2.88
28292	IBOH-080603	8 x 6 x 3	14 / 14	2 0	8.75 4.00	6	08P06	6.88 x 4.88
28293	IBOH-040404	4 x 4 x 4	14 / 14	1 0	4.75 2.00	3	No Panel	–
28294	IBOH-060404	6 x 4 x 4	14 / 14	1 0	6.75 2.00	4	06P04	4.88 x 2.88
28295	IBOH-060604	6 x 6 x 4	14 / 14	1 0	6.75 4.00	5	06P06	4.88 x 4.88
28296	IBOH-080804	8 x 8 x 4	14 / 14	2 0	8.75 6.00	8	08P08	6.88 x 6.88
28297	IBOH-100804	10 x 8 x 4	14 / 14	2 0	10.75 6.00	10	10P08	8.88 x 6.88
28298	IBOH-120604	12 x 6 x 4	14 / 14	2 0	12.75 4.00	13	12P06	10.88 x 4.88
28299	IBOH-121005	12 x 10 x 5	14 / 14	2 0	12.75 8.00	14	12P10	10.88 x 8.88
28300	IBOH-080606	8 x 6 x 6	14 / 14	2 0	8.75 4.00	8	08P06	6.88 x 4.88
28301	IBOH-100806	10 x 8 x 6	14 / 14	2 0	10.75 6.00	12	10P08	8.88 x 6.88
28302	IBOH-101006	10 x 10 x 6	14 / 14	2 0	10.75 8.00	13	10P10	8.88 x 8.88
28303	IBOH-121206	12 x 12 x 6	14 / 14	2 0	12.75 10.00	18	12P12	10.88 x 10.88
28304	IBOH-140806	14 x 8 x 6	14 / 14	2 0	14.75 6.00	17	14P08	12.88 x 6.88
28305	IBOH-141206	14 x 12 x 6	14 / 14	2 0	14.75 10.00	19	14P12	12.88 x 10.88
28306	IBOH-161006	16 x 10 x 6	14 / 14	2 0	16.75 8.00	20	16P10	14.88 x 8.88
28307	IBOH-161406	16 x 14 x 6	14 / 14	2 0	16.75 12.00	23	16P14	14.88 x 12.88
28308	IBOH-121008	12 x 10 x 8	14 / 14	2 0	12.75 8.00	14	12P10	10.88 x 8.88
28309	IBOH-141208	14 x 12 x 8	14 / 14	2 0	14.75 10.00	22	14P12	12.88 x 10.88
28310	IBOH-161408	16 x 14 x 8	14 / 14	2 0	16.75 12.00	26	16P14	14.88 x 12.88
28311	IBOH-161410	16 x 14 x 10	14 / 14	2 0	16.75 12.00	29	16P14	14.88 x 12.88

All dimensions in inches



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## Application

Ralston's IBWRH series wall-mounted JIC enclosures are designed to provide protection, indoors and outdoors, against dust, dirt, oil and water for items such as pneumatic or hydraulic instruments, transformers, and junction wiring. These enclosures are suitable for use in areas such as dairies, breweries, and similar environments where they are subject to frequent high pressure hosing and generally wet conditions. (Not submersible.)

## Construction

Ralston's IBWRH enclosures are made from 14 ga. cold rolled steel. All seams are continuously welded and ground to a smooth finish. Each enclosure comes complete with four 10-32 weld nuts (for mounting panels). Grounding studs are provided on the inside of the box and door, and wall mounting back brackets are welded on the outside top and bottom of the enclosure. The IBWRH door is sealed with a one-piece neoprene gasket and is secured to the enclosure with a continuous stainless steel piano hinge on one side and stainless steel door clamping hardware on three sides. There are no knock-outs or holes in the cover or body.

## Panels

Panels are included and fabricated from 14 ga. cold rolled steel.

## Finish

All enclosures are phosphatized and finished inside and out with ANSI/ASA 61 gray powder coating. Panels are finished with a high gloss white polyester powder coating.

## Standards

Ralston's IBWRH enclosures conform to the National Electrical Manufacturers Association (NEMA) standard for Type 3 (Dusttight, Raintight and Sleet/Ice Resistant), Type 3R (Rainproof and Sleet/Ice Resistant), Type 4 (Watertight and Dusttight), Type 12 (Industrial Use) and Type 13 (Oiltight and Dusttight) enclosures. These enclosures conform to Joint Industry Council (JIC) standard EGP-1-1967. They are listed by Underwriters' Laboratories, Inc. (UL) and are certified by the Canadian Standards Association (CSA).







# NEMA Type 12 Single Door Wall Mount Enclosures

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## Application

Ralston's N12 single-door wall-mounted enclosures are designed for indoor use to provide a degree of protection against dust and dirt, and spraying of water, oil or coolant. They are used to house electronic/electrical controls, instrumentation systems, and pneumatic, hydraulic, and machine tool controls.

## Construction

Ralston's N12 single-door enclosures are made from 14 ga. cold rolled steel and have continuously welded seams ground to a smooth finish. The N12 enclosure has a folded lip around the door opening to provide complete and maximum gasket contact, and to prevent liquids from dripping into the enclosure when the door is open. Enclosures come complete with 3/8 collar studs (for mounting panels) and four wall mounting back brackets.

The enclosure door is equipped with oil resistant neoprene gasket, a removable print pocket, 1/4-20 grounding stud, padlocking hasp and slotted quarter-turn latches. Ralston has designed these enclosures to use quarter-turn latches instead of hold-down clamps (which are often inadequately secured after servicing, leaving equipment vulnerable to the elements). The door is easily removed by pulling the pin on the continuous piano hinge.

Large N12 enclosures come complete with additional mounting studs and maintain a rigid construction through the use of door and body stiffeners. There are no knock-outs or holes in the body or door.

## Panels

Panels are included and fabricated from 12 ga. cold rolled steel.

## Finish

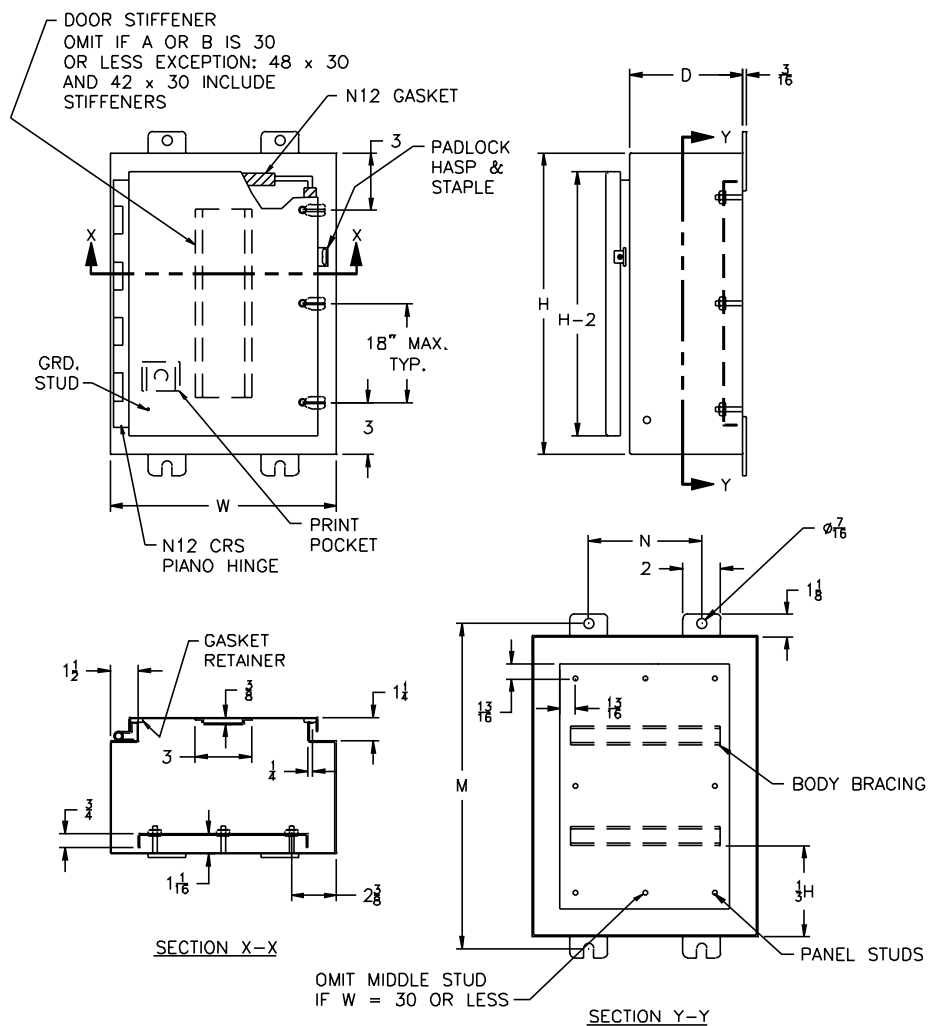
All enclosures are phosphatized and finished inside and out with ANSI/ASA 61 gray polyester powder coating. Panels are finished with a high gloss white polyester powder coating.

## Standards

All N12 single-door enclosures conform to the National Electrical Manufacturers Association (NEMA) standard for Type 12 (Industrial Use) and Type 13 (Oiltight and Dusttight) enclosures. These enclosures conform to Joint Industry Council (JIC) standard EGP-1-1967. They are listed by Underwriters' Laboratories, Inc. (UL) and are certified by the Canadian Standards Association (CSA).



## NEMA Type 12 Single Door Wall Mount Enclosures



# NEMA Type 12 Single Door Wall Mount Enclosures

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Item No.	Catalog No.	Dimensions (in) H x W x D	Material Thickness Box / Cover	Hold Downs H side W side	Mounting Dim. (in) M N	Weight (lbs)	Panel Catalog No.	Panel Size (in)
28331	N12-161206	16 x 12 x 6	14 / 14	2 0	17.25 6.00	26	V1612	13.00 x 9.00
28332	N12-161606	16 x 16 x 6	14 / 14	2 0	17.25 10.00	30	V1616	13.00 x 13.00
28333	N12-201606	20 x 16 x 6	14 / 14	2 0	21.25 10.00	36	V2016	17.00 x 13.00
28334	N12-202006	20 x 20 x 6	14 / 14	2 0	21.25 14.00	47	V2020	17.00 x 17.00
28335	N12-242006	24 x 20 x 6	14 / 14	2 0	25.25 14.00	55	V2420	21.00 x 17.00
28336	N12-242406	24 x 24 x 6	14 / 14	2 0	25.25 18.00	62	V2424	21.00 x 21.00
28337	N12-302006	30 x 20 x 6	14 / 14	2 0	31.25 14.00	65	V3020	27.00 x 17.00
28338	N12-302406	30 x 24 x 6	14 / 14	2 0	31.25 18.00	75	V3024	27.00 x 21.00
28339	N12-362406	36 x 24 x 6	14 / 14	2 0	37.25 18.00	88	V3624	33.00 x 21.00
28340	N12-161208	16 x 12 x 8	14 / 14	2 0	17.25 6.00	30	V1612	13.00 x 9.00
28341	N12-161608	16 x 16 x 8	14 / 14	2 0	17.25 10.00	37	V1616	13.00 x 13.00
28342	N12-201608	20 x 16 x 8	14 / 14	2 0	21.25 10.00	43	V2016	17.00 x 13.00
28343	N12-202008	20 x 20 x 8	14 / 14	2 0	21.25 14.00	53	V2020	17.00 x 17.00
28344	N12-241208	24 x 12 x 8	14 / 14	2 0	25.25 6.00	48	V2412	21.00 x 9.00
28345	N12-241608	24 x 16 x 8	14 / 14	2 0	25.25 10.00	50	V2416	21.00 x 13.00
28346	N12-242008	24 x 20 x 8	14 / 14	2 0	25.25 14.00	59	V2420	21.00 x 17.00
28347	N12-242408	24 x 24 x 8	14 / 14	2 0	25.25 18.00	68	V2424	21.00 x 21.00
28348	N12-243008	24 x 30 x 8	14 / 14	2 0	25.25 24.00	80	V3024	27.00 x 21.00
28349	N12-302408	30 x 24 x 8	14 / 14	2 0	31.25 18.00	80	V3024	27.00 x 21.00
28350	N12-303008	30 x 30 x 8	14 / 14	2 0	31.25 24.00	100	V3030	27.00 x 27.00
28351	N12-362408	36 x 24 x 8	14 / 14	2 0	37.25 18.00	94	V3624	33.00 x 21.00
28352	N12-363008	36 x 30 x 8	14 / 14	2 0	37.25 24.00	117	V3630	33.00 x 27.00
28353	N12-422408	42 x 24 x 8	14 / 14	2 0	43.25 18.00	110	V4224	39.00 x 21.00
28354	N12-423008	42 x 30 x 8	14 / 14	2 0	43.25 24.00	132	V4230	39.00 x 27.00
28355	N12-423608	42 x 36 x 8	14 / 14	2 0	43.25 30.00	152	V4236	39.00 x 33.00
28356	N12-482408	48 x 24 x 8	14 / 14	2 0	49.25 18.00	120	V4824	45.00 x 21.00
28357	N12-483008	48 x 30 x 8	14 / 14	2 0	49.25 24.00	148	V4830	45.00 x 27.00
28358	N12-483608	48 x 36 x 8	14 / 14	2 0	49.25 30.00	175	V4836	45.00 x 33.00
28359	N12-603608	60 x 36 x 8	14 / 14	3 0	61.25 30.00	208	V6036	57.00 x 33.00
28360	N12-202010	20 x 20 x 10	14 / 14	2 0	21.25 14.00	54	V2020	17.00 x 17.00
28361	N12-242010	24 x 20 x 10	14 / 14	2 0	25.25 14.00	63	V2420	21.00 x 17.00
28362	N12-302010	30 x 20 x 10	14 / 14	2 0	31.25 14.00	74	V3020	27.00 x 17.00

All dimensions in inches



# NEMA Type 12 Single Door Wall Mount Enclosures

Item No.	Catalog No.	Dimensions (in) H x W x D	Material Thickness Box / Cover	Hold Downs H side W side		Mounting Dim. (in) M N		Weight (lbs)	Panel Catalog No.	Panel Size (in)
28363	N12-302410	30 x 24 x 10	14 / 14	2	0	31.25	18.00	85	V3024	27.00 x 21.00
28364	N12-362410	36 x 24 x 10	14 / 14	2	0	37.25	18.00	100	V3624	33.00 x 21.00
28365	N12-363010	36 x 30 x 10	14 / 14	2	0	37.25	24.00	124	V3630	33.00 x 27.00
28366	N12-363610	36 x 36 x 10	14 / 14	2	0	37.25	30.00	149	V3636	33.00 x 33.00
28367	N12-423010	42 x 30 x 10	14 / 14	2	0	43.25	24.00	137	V4230	39.00 x 27.00
28368	N12-483010	48 x 30 x 10	14 / 14	2	0	49.25	24.00	183	V4830	45.00 x 27.00
28369	N12-483610	48 x 36 x 10	14 / 14	2	0	49.25	30.00	187	V4836	45.00 x 33.00
28370	N12-603610	60 x 36 x 10	14 / 14	3	0	61.25	30.00	216	V6036	57.00 x 33.00
28371	N12-242412	24 x 24 x 12	14 / 14	2	0	25.25	18.00	80	V2424	21.00 x 21.00
28372	N12-302412	30 x 24 x 12	14 / 14	2	0	31.25	18.00	90	V3024	27.00 x 21.00
28373	N12-303012	30 x 30 x 12	14 / 14	2	0	31.25	24.00	110	V3030	27.00 x 27.00
28374	N12-362412	36 x 24 x 12	14 / 14	2	0	37.25	18.00	109	V3624	33.00 x 21.00
28375	N12-363012	36 x 30 x 12	14 / 14	2	0	37.25	24.00	127	V3630	33.00 x 27.00
28376	N12-423012	42 x 30 x 12	14 / 14	2	0	43.25	24.00	150	V4230	39.00 x 27.00
28377	N12-423612	42 x 36 x 12	14 / 14	2	0	43.25	30.00	185	V4236	39.00 x 33.00
28378	N12-483612	48 x 36 x 12	14 / 14	2	0	49.25	30.00	185	V4836	45.00 x 33.00
28379	N12-603612	60 x 36 x 12	14 / 14	3	0	61.25	30.00	230	V6036	57.00 x 33.00
28380	N12-723012	72 x 30 x 12	14 / 14	3	0	73.25	24.00	250	V7230	69.00 x 27.00
28381	N12-242016	24 x 20 x 16	14 / 14	2	0	25.25	14.00	75	V2420	21.00 x 17.00
28382	N12-302416	30 x 24 x 16	14 / 14	2	0	31.25	18.00	100	V3024	27.00 x 21.00
28383	N12-363016	36 x 30 x 16	14 / 14	2	0	37.25	24.00	145	V3630	33.00 x 27.00
28384	N12-423616	42 x 36 x 16	14 / 14	2	0	43.25	30.00	180	V4236	39.00 x 33.00
28385	N12-483616	48 x 36 x 16	14 / 14	2	0	49.25	30.00	238	V4836	45.00 x 33.00
28386	N12-603616	60 x 36 x 16	14 / 14	3	0	61.25	30.00	237	V6036	57.00 x 33.00
28387	N12-302420	30 x 24 x 20	14 / 14	2	0	31.25	18.00	110	V3024	27.00 x 21.00
28389	N12-483620	48 x 36 x 20	14 / 14	2	0	49.25	30.00	220	V4836	45.00 x 33.00
28390	N12-603620	60 x 36 x 20	14 / 14	3	0	61.25	30.00	300	V6036	57.00 x 33.00

All dimensions in inches



Enclosures on Demand<sup>SM</sup>

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# NEMA Type 4 Single Door Wall Mount Enclosures

Introduction

Stainless Steel Boxes

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Fiberglass Boxes

Carbon Steel Boxes

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## Application

Ralston's N4 single-door wall-mounted enclosures are used indoors and outdoors to house such items as electrical/electronic controls, instrumentation systems, and pneumatic, hydraulic and machine tool controls.

These enclosures are designed to provide protection against dust, dirt, oil and water. They are suitable for use in areas such as dairies, breweries and similar environments where they are subject to frequent high pressure hosing and generally wet conditions. Although these enclosures carry an N4X rating, they are not recommended for use in areas where severe corrosion problems exist. (Not submersible.)

## Construction

Ralston's N4 single-door enclosures are made from 14 ga. cold rolled steel and have continuously welded seams ground to a smooth finish. They have a folded lip around the door opening to provide complete and maximum gasket contact, and to prevent liquids from dripping into the enclosure when the door is open. Each enclosure comes complete with 3/8 collar studs (for mounting panels), 1/4-20 grounding studs, and four wall mounting back brackets.

Each enclosure door is equipped with neoprene gasket, a removable print pocket, padlocking hasp, 1/4-20 grounding studs, and stainless steel door clamping hardware on three sides. The door is easily removed by pulling the pin on the continuous stainless steel piano hinge.

Large enclosures come complete with additional panel mounting studs and maintain a rigid construction through the use of door and body stiffeners. There are no knock-outs or holes in the door or body.

## Panels

Panels are included and fabricated from 12 ga. cold rolled steel.

## Finish

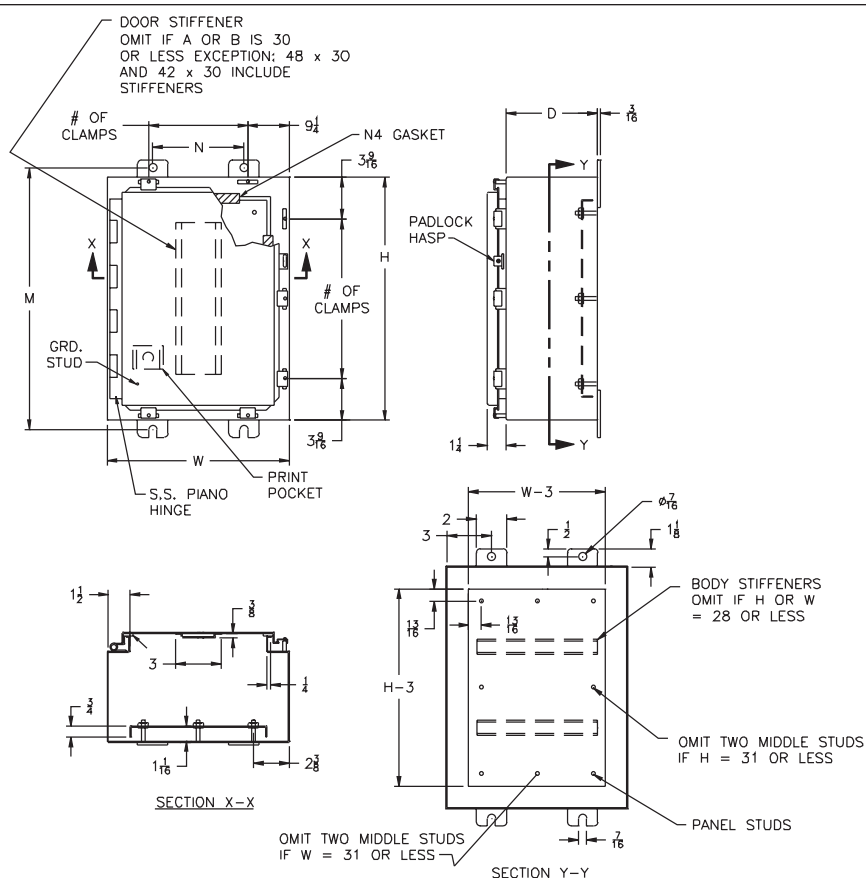
All enclosures are phosphatized and finished inside and out with ANSI/ASA 61 gray polyester powder coating. Panels are finished with a high gloss white polyester powder coating.

## Standards

Ralston's N4 single-door enclosures conform to the National Electrical Manufacturers Association (NEMA) standard for Type 3 (Dusttight, Raintight and Sleet/Ice Resistant), Type 3R (Rainproof and Sleet/Ice Resistant), Type 4 (Watertight and Dusttight), Type 4X (Watertight, Dusttight and Corrosion Resistant), Type 12 (Industrial Use) and Type 13 (Oiltight and Dusttight) enclosures. These enclosures conform to Joint Industry Council (JIC) standard EGP-1-1967. They are listed by Underwriters' Laboratories, Inc. (UL) and are certified by the Canadian Standards Association (CSA).



# NEMA Type 4 Single Door Wall Mount Enclosures



Item No.	Catalog No.	Dimensions (in) H x W x D	Material Thickness Box / Cover	Hold Downs		Mounting Dim. (in)		Weight (lbs)	Panel Catalog No.	Panel Size (in)
				H side	W side	M	N			
28070	N4X-161206	16 x 12 x 6	14 / 14	2	0	17.25	6.00	26	V1612	13.00 x 9.00
28071	N4X-161606	16 x 16 x 6	14 / 14	2	0	17.25	10.00	32	V1616	13.00 x 13.00
28072	N4X-201606	20 x 16 x 6	14 / 14	2	0	31.25	10.00	38	V2016	17.00 x 13.00
28073	N4X-202006	20 x 20 x 6	14 / 14	2	1	21.25	14.00	43	V2020	17.00 x 17.00
28074	N4X-242006	24 x 20 x 6	14 / 14	2	1	25.25	14.00	55	V2420	21.00 x 17.00
28075	N4X-242406	24 x 24 x 6	14 / 14	2	1	25.25	18.00	62	V2424	21.00 x 21.00
28076	N4X-161208	16 x 12 x 8	14 / 14	2	0	17.25	6.00	30	V1612	13.00 x 9.00
28077	N4X-201608	20 x 16 x 8	14 / 14	2	0	21.25	10.00	43	V2016	17.00 x 13.00
28078	N4X-202008	20 x 20 x 8	14 / 14	2	1	21.25	14.00	53	V2020	17.00 x 17.00
28079	N4X-242008	24 x 20 x 8	14 / 14	2	1	25.25	14.00	59	V2420	21.00 x 17.00
28080	N4X-242408	24 x 24 x 8	14 / 14	2	1	25.25	18.00	68	V2424	21.00 x 21.00
28081	N4X-302408	30 x 24 x 8	14 / 14	3	1	31.25	18.00	80	V3024	27.00 x 21.00
28082	N4X-303008	30 x 30 x 8	14 / 14	3	1	31.25	24.00	104	V3030	27.00 x 27.00
28083	N4X-362408	36 x 24 x 8	14 / 14	3	1	37.25	18.00	94	V3624	33.00 x 21.00
28084	N4X-363008	36 x 30 x 8	14 / 14	3	1	37.25	24.00	121	V3630	33.00 x 27.00
28085	N4X-423608	42 x 36 x 8	14 / 14	3	2	43.25	30.00	152	V4236	39.00 x 33.00
28086	N4X-242010	24 x 20 x 10	14 / 14	2	1	25.25	14.00	63	V2420	21.00 x 17.00
28087	N4X-302010	30 x 20 x 10	14 / 14	3	1	31.25	14.00	74	V3020	27.00 x 17.00
28088	N4X-302410	30 x 24 x 10	14 / 14	3	1	31.25	18.00	88	V3024	27.00 x 21.00
28089	N4X-362410	36 x 24 x 10	14 / 14	3	1	37.25	18.00	100	V3624	33.00 x 21.00
28090	N4X-423010	42 x 30 x 10	14 / 14	3	1	43.25	24.00	137	V4230	39.00 x 27.00
28091	N4X-302412	30 x 24 x 12	14 / 14	3	1	31.25	18.00	90	V3024	27.00 x 21.00
28092	N4X-363012	36 x 30 x 12	14 / 14	3	1	37.25	24.00	130	V3630	33.00 x 27.00
28093	N4X-423612	42 x 36 x 12	14 / 14	3	2	43.25	30.00	165	V4236	39.00 x 33.00
28094	N4X-483612	48 x 36 x 12	14 / 14	4	2	49.25	30.00	188	V4836	45.00 x 33.00
28095	N4X-603616	60 x 36 x 16	14 / 14	4	2	61.25	30.00	232	V6036	57.00 x 33.00

All dimensions in inches



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## NEMA Type 4, 12 Vision Series Wall Mount Enclosures

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### Vision Series Enclosures

Vision series enclosures feature a streamlined design with a flush door and latches that accommodate any electrical or electronic application. Ralston has designed these enclosures to use quarter-turn latches instead of hold-down clamps (which are often inadequately secured after servicing, leaving equipment vulnerable to the elements). Attractive aluminum die-cast hinges are anodized black. Vision series' interchangeable doors allow you the option to open from the right or left.

### Application

Ralston's V-GP series single door enclosures are used indoors and outdoors to house such items as electronic/electrical controls, instrumentation systems, pneumatic, hydraulic and machine tool controls.

These enclosures are designed to provide protection against dust, dirt, oil and water. They are suitable for use in dairies, breweries and similar environments subject to high pressure hosing and generally wet conditions. Although these enclosures carry an N4X rating, they are not recommended for use in areas where severe corrosion problems exist. (Not submersible.)

### Construction

Ralston's V-GP enclosures are made from 14 ga. cold rolled steel and have continuously welded seams ground to a smooth finish. They have a formed lip around the door opening to provide complete and maximum gasket contact, and to prevent liquids from dripping into the enclosure when the door is open.

Each enclosure comes complete with a 1/4-20 grounding stud, compression stops to ensure optimum gasket performance and 3/8 collar studs (for mounting optional panels).

Each enclosure door is equipped with neoprene gasket, a removable print pocket on sizes with B dimension 16" or more, 1/4-20 grounding stud and slotted quarter-turn latches to secure the door. The 180° opening door is easily removed and may be reversed.

Large enclosures come complete with additional panel mounting studs and maintain a rigid construction through the use of door and body stiffeners.

### Panels

Optional panels are available and are fabricated from 12 ga. cold rolled steel.





# NEMA Type 4, 12 Vision Series Wall Mount Enclosures

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Fiberglass Boxes

Carbon Steel Boxes

Industrial Pilot Devices

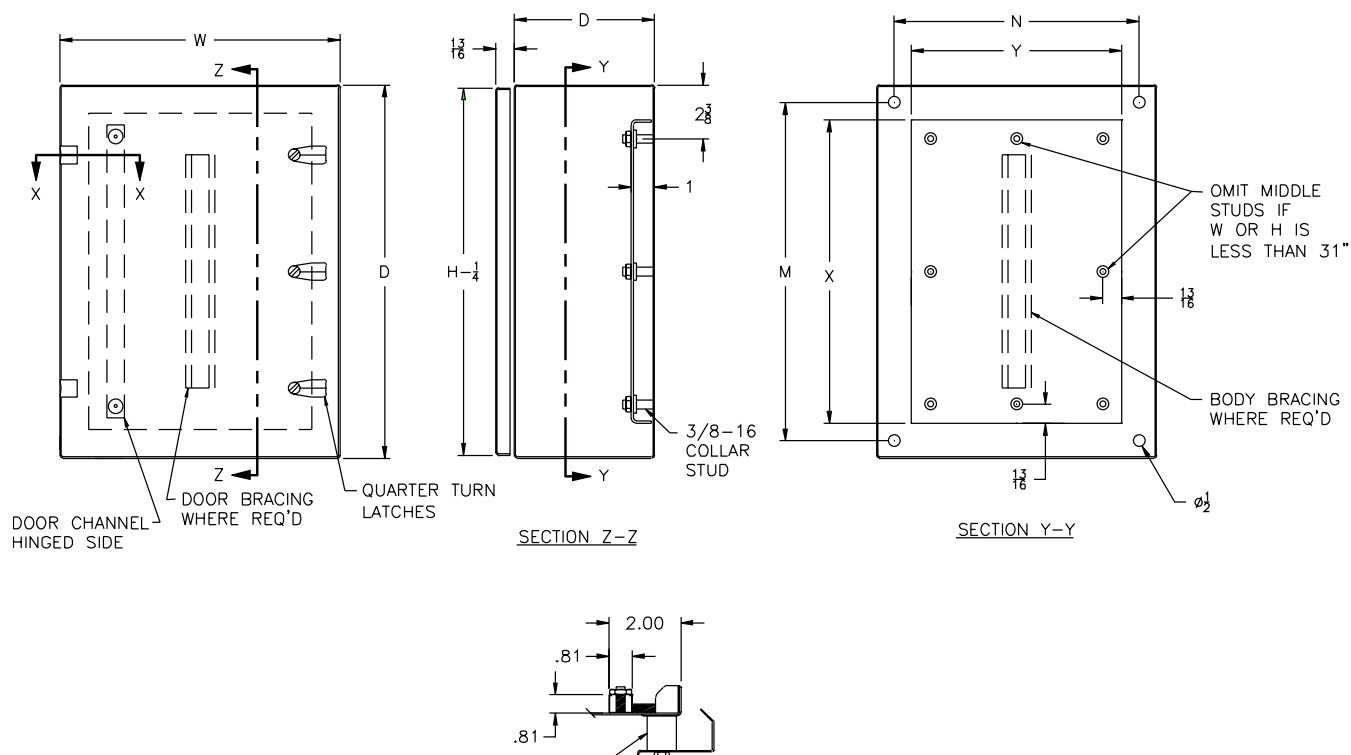
PowerSpec<sup>®</sup> Connectors

Sky-Tie<sup>™</sup> Clamps

Remke Cord Grips

Kooltronic<sup>™</sup> Cooling

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## Finish

All enclosures are phosphatized and finished inside and out with ANSI/ASA 61 gray polyester powder coating. Panels are finished with a high gloss white polyester powder coating.

## Standards

Ralston's V-GP enclosures conform to the National Electrical Manufacturers Association (NEMA) standard for Type 3 (Dusttight, Raintight and Sleet/Ice Resistant), Type 3R (Rainproof and Sleet/Ice Resistant), Type 4 (Watertight and Dusttight), Type 4X (Watertight, Dusttight and Corrosion Resistant), Type 12 (Industrial Use) and Type 13 (Oiltight and Dusttight) enclosures. These enclosures conform to Joint Industry Council (JIC) standard EGP-1-1967. They are listed by Underwriters' Laboratories, Inc. (UL) and are certified by the Canadian Standards Association (CSA).



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Item No.	Catalog No.	Dimensions (in) HxWxD	Material Thickness Box / Cover	Hold Downs H side W side	Mounting Dim. (in) M N	Weight (lbs)	Panel Catalog No.	Panel Size (in)
28166	V-GP-121206	12 x 12 x 6	14 / 14	1 0	10.50 10.50	14	V1212	9.00 x 9.00
28167	V-GP-161206	16 x 12 x 6	14 / 14	1 0	14.50 10.50	16	V1612	13.00 x 9.00
28168	V-GP-161606	16 x 16 x 6	14 / 14	1 0	14.50 14.50	20	V1616	13.00 x 13.00
28169	V-GP-201606	20 x 16 x 6	14 / 14	1 0	18.50 14.50	23	V2016	17.00 x 13.00
28170	V-GP-202006	20 x 20 x 6	14 / 14	1 0	18.50 18.50	28	V2020	17.00 x 17.00
28692	V-GP-161208	16 x 12 x 8	14 / 14	1 0	14.50 10.50	17	V1612	13.00 x 9.00
28171	V-GP-162008	16 x 20 x 8	14 / 14	1 0	14.50 18.50	26	V2016	13.00 x 17.00
28172	V-GP-201608	20 x 16 x 8	14 / 14	1 0	18.50 14.50	26	V2016	17.00 x 13.00
28173	V-GP-202008	20 x 20 x 8	14 / 14	1 0	18.50 18.50	30	V2020	17.00 x 17.00
28174	V-GP-202408	20 x 24 x 8	14 / 14	1 0	18.50 22.50	46	V2420	17.00 x 21.00
28175	V-GP-241608	24 x 16 x 8	14 / 14	1 0	22.50 14.50	30	V2416	21.00 x 13.00
28176	V-GP-242008	24 x 20 x 8	14 / 14	1 0	22.50 18.50	46	V2420	21.00 x 17.00
28177	V-GP-242408	24 x 24 x 8	14 / 14	2 0	22.50 22.50	42	V2424	21.00 x 21.00
28178	V-GP-243008	24 x 30 x 8	14 / 14	2 0	22.50 28.50	52	V3024	21.00 x 27.00
28179	V-GP-302008	30 x 20 x 8	14 / 14	2 0	28.50 18.50	46	V3020	27.00 x 17.00
28180	V-GP-302408	30 x 24 x 8	14 / 14	2 0	28.50 22.50	52	V3024	27.00 x 21.00
28181	V-GP-303008	30 x 30 x 8	14 / 14	2 0	28.50 28.50	62	V3030	27.00 x 27.00
28182	V-GP-362408	36 x 24 x 8	14 / 14	2 0	34.50 22.50	62	V3624	33.00 x 21.00
28183	V-GP-363008	36 x 30 x 8	14 / 14	2 0	34.50 28.50	72	V3630	33.00 x 27.00
28693	V-GP-242010	24 x 20 x 10	14 / 14	2 0	22.50 18.50	47	V2420	21.00 x 17.00
28694	V-GP-302010	30 x 20 x 10	14 / 14	2 0	28.50 18.50	50	V3020	27.00 x 17.00
28695	V-GP-302410	30 x 24 x 10	14 / 14	2 0	28.50 22.50	53	V3024	27.00 x 21.00
28696	V-GP-362410	36 x 24 x 10	14 / 14	2 0	34.50 22.50	63	V3624	33.00 x 21.00
28697	V-GP-423010	42 x 30 x 10	14 / 14	3 0	40.50 28.50	118	V4230	39.00 x 27.00
28184	V-GP-202012	20 x 20 x 12	14 / 14	1 0	18.50 18.50	36	V2020	17.00 x 17.00
28185	V-GP-242412	24 x 24 x 12	14 / 14	2 0	22.50 22.50	50	V2424	21.00 x 21.00
28186	V-GP-302412	30 x 24 x 12	14 / 14	2 0	28.50 22.50	62	V3024	27.00 x 21.00
28187	V-GP-363012	36 x 30 x 12	14 / 14	2 0	34.50 28.50	85	V3630	33.00 x 27.00
28188	V-GP-363612	36x36x12	14 / 14	2 0	34.50 34.50	106	V3636	33.00 x 33.00
28190	V-GP-423612	42 x 36 x 12	14 / 14	3 0	40.50 34.50	122	V4236	39.00 x 33.00
28191	V-GP-482412	48 x 24 x 12	14 / 14	3 0	46.50 22.50	98	V4824	45.00 x 21.00
28192	V-GP-483612	48 x 36 x 12	14 / 14	3 0	46.50 34.50	132	V4836	45.00 x 33.00
28193	V-GP-602412	60 x 24 x 12	14 / 14	3 0	58.50 22.50	140	V6024	57.00 x 21.00
28194	V-GP-603612	60 x 36 x 12	14 / 14	3 0	58.50 34.50	160	V6036	57.00 x 33.00
28195	V-GP-242416	24 x 24 x 16	14 / 14	2 0	22.50 22.50	59	V2424	21.00 x 21.00
28196	V-GP-363016	36 x 30 x 16	14 / 14	2 0	34.50 28.50	94	V3630	33.00 x 27.00
28197	V-GP-483616	48 x 36 x 16	14 / 14	3 0	46.50 34.50	148	V4836	45.00 x 33.00
28698	V-GP-603616	60 x 36 x 16	14 / 14	3 0	58.50 34.50	165	V6036	57.00 x 33.00

All dimensions in inches



# Features & Benefits of Polyester Powder Coatings



## Polyester Powder Coatings

### Advantages of Dry Paint

Powder materials and applications technology have added great value to the metal finishing industry. They can produce a quality finish that rivals that of liquid coatings, while offering superior surface properties.

**Polyester** - Powder Coatings are a family of rugged thermosetting enamels for a wide range of metal substrates and end uses. They have application and performance properties similar to those of Epoxy Powder Coatings. However, Polyester powders are designed to give significantly better resistance to chalking and color change for exterior exposure and better resistance to color change from aging.

**End Users** - Polyester Powder Coatings are especially suitable: (1) where multiple-coat solvent based systems may be replaced by a single powder coat; (2) as a replacement for electroplating; (3) to achieve extreme ruggedness; (4) as a replacement for porcelain enamels, or (5) where pollution regulations preclude solvent-based coatings.

**An Environmental Issue** - Powder coatings offer better process economics over wet paint. Lower energy costs and the elimination of solvent emissions make it far easier to comply with the even more

stringent environmental regulations. First, there is no need to use energy for spray booths and oven ventilation. Secondly, material utilization efficiencies are in the 95% range because overspray is captured and recycled, not like wet systems where it is wasted causing possible hazards while handling sludge or solvent material.

**Coating Performance** - On an equivalent thickness basis, Polyester Powder Coatings are comparable to solvent-based acrylics and polyesters widely used in the metalworking trade. For example, as a single-coat on light gauge, phosphatized cold rolled steel they offer:

- hardness, good chip resistance
- good resistance to chalking and color change
- good chemical and stain resistance

In addition, abrasion and chemical resistance are excellent. We believe the properties of Polyester are comparable to or better than the best acrylic powders on the market.



# NEMA Type 12 Freestanding Single Door Enclosures

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Industrial Pilot Devices

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## Application

Ralston's N12-FS freestanding single-door enclosures are designed for indoor use to provide a degree of protection against dust and dirt, and spraying of water, oil or coolant. They are used to house electronic/electrical controls, instrumentation systems, and pneumatic, hydraulic, and machine tool controls.

## Construction

Ralston's N12-FS enclosures are made from 12 ga. cold rolled steel and have continuously welded seams ground to a smooth finish.

Enclosures come complete with six unistrut channels to allow for adjustment to panels and to provide stiffness to the sides. Each enclosure is equipped with two 5/8 eye bolts, complete with solid rubber seals and reinforcing support angles welded to the top of the enclosure for easy handling. Two 1/4-20 grounding studs are installed.

The base is pre-punched to provide ease of securing the enclosure to the ground for stability. Oil tight hole plugs are provided to seal the pre-punched holes in the event that the holes are not used.

The N12-FS door is also made from 12 ga. cold rolled steel and is equipped with oil resistant gasket, 1/4-20 grounding studs, removable print pocket, keyed locking handle with roller mechanisms, and a continuous piano hinge.

## Panels

Back panels are included and are fabricated from 12 ga. cold rolled steel. The full-size back panels are designed so that they may be cut in half to make two half panels that require no extra drilling for installation.

## Finish

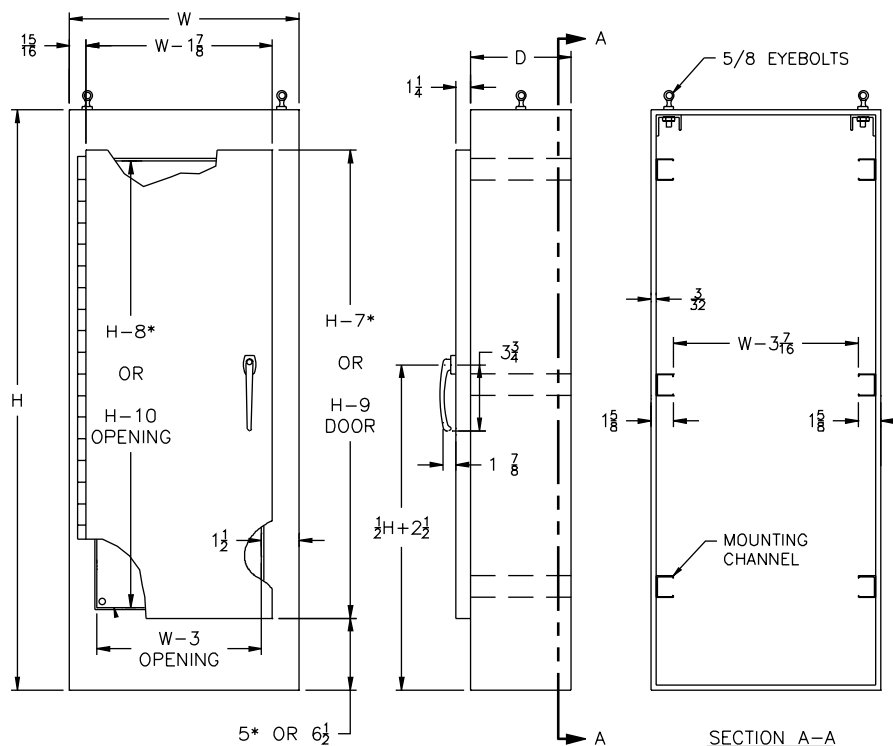
All enclosures are phosphatized and finished inside and out with ANSI/ASA 61 gray polyester powder coating. Panels are finished with a high gloss white polyester powder coating.

## Standards

All N12-FS enclosures conform to the National Electrical Manufacturers Association (NEMA) standard for Type 12 (Industrial Use) and Type 13 (Oiltight and Dusttight) enclosures. These enclosures conform to Joint Industry Council (JIC) standard EGP-1-1967. They are listed by Underwriters' Laboratories, Inc. (UL) and are certified by the Canadian Standards Association (CSA).



# NEMA Type 12 Freestanding Single Door Enclosures



\* THESE DIMENSIONS ARE FOR 60" HIGH ENCLOSURES ONLY

Item No.	Catalog No.	Dimensions (in) H x W x D	Material Thickness Box / Cover	Weight (lbs)	Panel Catalog No.	Panel Size (in)
28433	N12-FS-602418	60 x 24 x 18	12 / 12	210	FS-60P24F	20.25 x 50.00
28434	N12-FS-722418	72 x 24 x 18	12 / 12	285	FS-72P24F	20.25 x 62.00
28435	N12-FS-723018	72 x 30 x 18	12 / 12	340	FS-72P30F	26.25 x 62.00
28436	N12-FS-723618	72 x 36 x 18	12 / 12	385	FS-72P36F	32.25 x 62.00
28437	N12-FS-902420	90 x 24 x 20	12 / 12	310	FS-90P24F	20.25 x 80.00
28438	N12-FS-603624	60 x 36 x 24	12 / 12	325	FS-60P36F	32.25 x 50.00
28439	N12-FS-722424	72 x 24 x 24	12 / 12	330	FS-72P24F	20.25 x 62.00
28440	N12-FS-723024	72 x 30 x 24	12 / 12	375	FS-72P30F	26.25 x 62.00
28441	N12-FS-723624	72 x 36 x 24	12 / 12	425	FS-72P36F	32.25 x 62.00
28442	N12-FS-903624	90 x 36 x 24	12 / 12	516	FS-90P36F	32.25 x 80.00
28443	N12-FS-723630	72 x 36 x 30	12 / 12	460	FS-72P36F	32.25 x 62.00
28444	N12-FS-723636	72 x 36 x 36	12 / 12	500	FS-72P36F	32.25 x 62.00
28445	N12-FS-903636	90 x 36 x 36	12 / 12	525	FS-90P36F	32.25 x 80.00

All dimensions in inches



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# NEMA Type 12 Freestanding Single Door Enclosures

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## Application

Ralston's N12-FS-DD freestanding double-door enclosures are designed for indoor use to provide a degree of protection against dust and dirt, and spraying of water, oil and coolant. They are used to house electronic/electrical controls, instrumentation systems, and pneumatic, hydraulic, and machine tool controls.

## Construction

Ralston's N12-FS-DD enclosures are made from 12 ga. cold rolled steel and have continuously welded seams ground to a smooth finish.

Enclosures are mounted on six unistrut channels to allow for adjustments to panels and to provide stiffness to the sides. Each enclosure is equipped with two 5/8 eye bolts, complete with solid rubber seals and reinforcing support angles welded to the top of the enclosure for easy handling. Two 1/4-20 grounding studs are installed.

The base is pre-punched to provide ease of securing the enclosure to the ground for stability. Oil tight hole plugs are provided to seal the pre-punched holes in the event that the holes are not used.

The overlapping doors are also made from 12 ga. cold rolled steel and are equipped with oil resistant gasket, 1/4-20 grounding studs, removable print pocket, keyed locking handle with roller mechanisms, and a continuous piano hinge.

## Panels

Back panels are included and are fabricated from 12 ga. cold rolled steel. Full-size back panels are designed so that they may be cut in half to make two half panels that require no extra drilling for installation.

## Finish

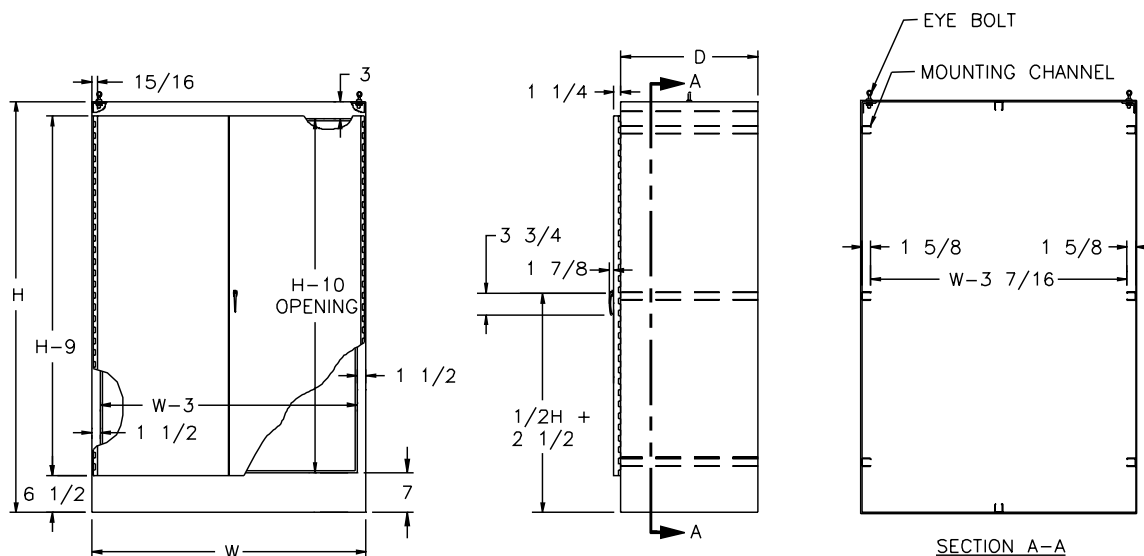
All enclosures are phosphatized and finished inside and out with ANSI/ASA 61 gray polyester powder coating. Panels are finished with a high gloss white polyester powder coating.

## Standards

All N12-FS-DD enclosures conform to the National Electrical Manufacturers Association (NEMA) standard for Type 12 (Industrial Use) and Type 13 (Oiltight and Dusttight) enclosures. These enclosures conform to Joint Industry Council (JIC) standard EGP-1-1967. They are listed by Underwriters' Laboratories, Inc. (UL) and are certified by the Canadian Standards Association (CSA).



# NEMA Type 12 Freestanding Single Door Enclosures



Item No.	Catalog No.	Dimensions (in) H x W x D	Material Thickness Box / Cover	Weight (lbs)	Panel Catalog No.	Panel Size (in)
28449	N12-FS-DD-48	72 x 48 x 24	12 / 12	520	FS-72P48F	44.25 x 60.00
28450	N12-FS-DD-60	72 x 60 x 24	12 / 12	615	FS-72P60F	56.25 x 60.00
28451	N12-FS-DD-72	72 x 72 x 24	12 / 12	700	FS-72P72F	68.25 x 60.00

All dimensions in inches



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# NEMA Type 12 Floor Mounted Double Door Enclosures

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Carbon Steel Boxes

Industrial Pilot Devices

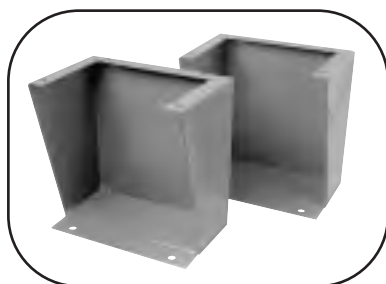
PowerSpec® Connectors

Sky-Tie™ Clamps

Remke Cord Grips

Kooltronic™ Cooling

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Two 12" mounting feet are included with each N12-DDF enclosure.



## Application

Ralston's N12-DDF floor-mounted double-door enclosures are designed for indoor use to provide a degree of protection against dust and dirt, and spraying of water, oil or coolant. They are used to house electronic/electrical controls, instrumentation systems, and pneumatic, hydraulic, and machine tool controls.

## Construction

Ralston's N12-DDF enclosures with an "A" dimension of 60" or more are made from 12 ga. cold rolled steel. N12 double-door enclosures with an "A" dimension of less than 60" are made from 14 ga. cold rolled steel. All enclosures have continuously welded seams ground to a smooth finish. Enclosures come complete with six or eight 3/8 collar studs (for mounting panels) and two support brackets are welded to the bottom of the enclosure to aid in panel installation. Each enclosure is equipped with two 12" mounting feet (supplied loose), two 5/8 eye bolts, complete with solid rubber seals, and reinforcing support angles welded to the top of the enclosure for easy handling. Two 1/4-20 grounding studs are installed as well as four or six wall mounting back brackets and body stiffeners.

The overlapping doors are also made from cold rolled steel and are equipped with oil resistant neoprene gasket, 1/4-20 grounding studs, removable print pocket, keyed locking handle with roller mechanism and continuous piano hinges.

## Panels

Panels are included and are fabricated from 10 or 12 ga. cold rolled steel.

## Finish

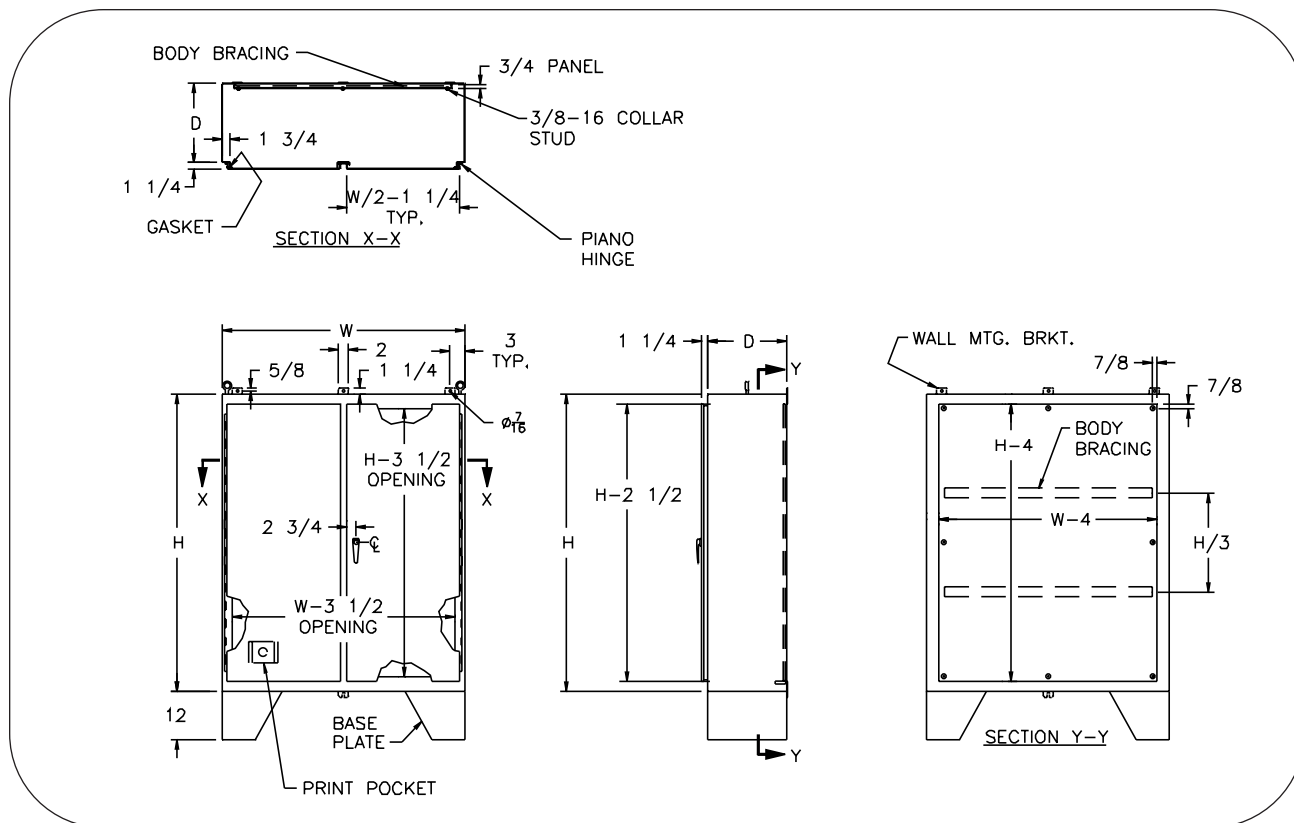
All enclosures are phosphatized and finished inside and out with ANSI/ASA 61 gray polyester powder coating. Panels are finished with a high gloss white polyester powder coating.

## Standards

All N12-DDF enclosures conform to the National Electrical Manufacturers Association (NEMA) standard for Type 12 (Industrial Use) and Type 13 (Oiltight and Dusttight) enclosures. These enclosures conform to Joint Industry Council (JIC) standard EGP-1-1967. They are listed by Underwriters' Laboratories, Inc. (UL) and are certified by the Canadian Standards Association (CSA).



# NEMA Type 12 Floor Mounted Double Door Enclosures



Item No.	Catalog No.	Dimensions (in) H x W x D	Material Thickness Box / Cover	Weight (lbs)	Panel Catalog No.	Panel Size (in)	Panel Thickness (gauge)
28412	N12-DDF-544208	54 x 42 x 8	14 / 14	255	D-54P42	50.00 x 38.00	12
28413	N12-DDF-604808	60 x 48 x 8	12 / 12	370	D-60P48	56.00 x 44.00	10
28414	N12-DDF-244210	24 x 42 x 10	14 / 14	151	D-24P42	20.00 x 38.00	12
28415	N12-DDF-304210	30 x 42 x 10	14 / 14	176	D-30P42	36.00 x 38.00	12
28416	N12-DDF-604810	60 x 48 x 10	12 / 12	386	D-60P48	56.00 x 44.00	10
28417	N12-DDF-606010	60 x 60 x 10	12 / 12	456	D-60P60	56.00 x 56.00	10
28418	N12-DDF-726010	72 x 60 x 10	12 / 12	571	D-72P60	68.00 x 56.00	10
28419	N12-DDF-727210	72 x 72 x 10	12 / 12	661	D-72P72	68.00 x 68.00	10
28420	N12-DDF-364810	36 x 48 x 10	14 / 14	248	D-36P48	32.00 x 44.00	12
28421	N12-DDF-484812	48 x 48 x 12	12 / 12	321	D-48P48	44.00 x 44.00	10
28422	N12-DDF-604812	60 x 48 x 12	12 / 12	398	D-60P48	56.00 x 44.00	10
28423	N12-DDF-606012	60 x 60 x 12	12 / 12	488	D-60P60	56.00 x 56.00	10
28424	N12-DDF-726012	72 x 60 x 12	12 / 12	578	D-72P60	68.00 x 56.00	10
28425	N12-DDF-727212	72 x 72 x 12	12 / 12	693	D-72P72	68.00 x 68.00	10
28426	N12-DDF-604816	60 x 48 x 16	12 / 12	511	D-60P48	56.00 x 44.00	10
28427	N12-DDF-606016	60 x 60 x 16	12 / 12	531	D-60P60	56.00 x 56.00	10
28428	N12-DDF-727216	72 x 72 x 16	12 / 12	826	D-72P72	68.00 x 68.00	10
28429	N12-DDF-604820	60 x 48 x 20	12 / 12	430	D-60P48	56.00 x 44.00	10
28430	N12-DDF-726020	72 x 60 x 20	12 / 12	785	D-72P60	68.00 x 56.00	10
28431	N12-DDF-727220	72 x 72 x 20	12 / 12	920	D-72P72	68.00 x 68.00	10
28432	N12-DDF-727224	72 x 72 x 24	12 / 12	990	D-72P72	68.00 x 68.00	10

All dimensions in inches



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# NEMA Type 4 Freestanding Single Door Enclosures

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## Application

Ralston's N4-FS freestanding single-door enclosures are used indoors and outdoors to house such items as electronic controls, instrumentation systems, and pneumatic, hydraulic and machine tool controls.

These enclosures are designed to provide protection against dust, dirt, oil and water. They are suitable for use in dairies, breweries and similar environments where they are subject to frequent high pressure hosing and generally wet conditions. (Not submersible.)

## Construction

Ralston's N4-FS enclosures are made from 12 ga. cold rolled steel and have continuously welded seams ground to a smooth finish. The N4-FS enclosure has a folded lip around the door opening to provide complete and maximum gasket contact and to prevent liquids from dripping into the enclosure when the door is open.

Enclosures come complete with six unistrut channels to allow for adjustments to panels and to provide stiffness to the sides. Each enclosure is equipped with 1/4-20 grounding studs, and two 5/8 eye bolts, complete with solid rubber seals and reinforcing support angles welded to the top of the enclosure for easy handling.

Each enclosure door is equipped with neoprene gasket, a removable print pocket, 1/4-20 grounding studs, stainless steel door clamping hardware on three sides and padlocking hasp. The door is easily removed by pulling the pin on the continuous stainless steel piano hinge. There are no knock-outs or holes in the door or body.

## Panels

Back panels are included and fabricated from 12 ga. cold rolled steel. The full-size back panels are designed so that they may be cut in half to make two half panels that require no extra drilling to installation.

## Finish

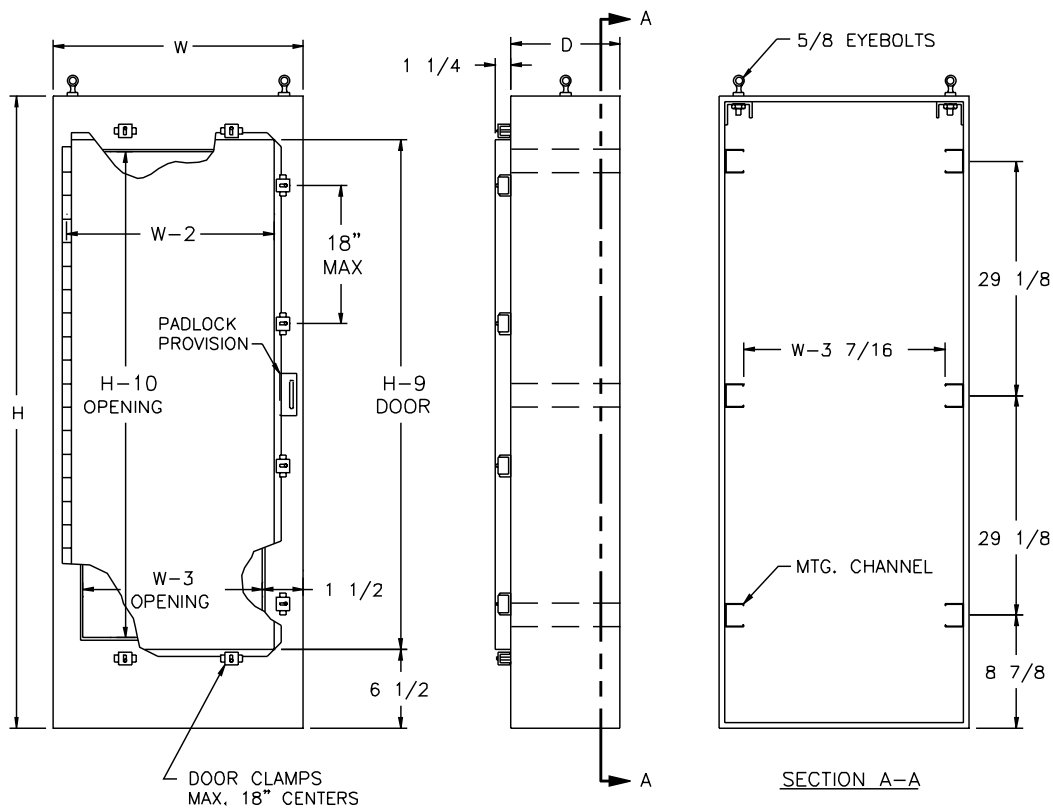
All enclosures are phosphatized and finished inside and out with ANSI/ASA 61 gray polyester powder coating. Panels are finished with a high gloss white polyester powder coating.

## Standards

Ralston's N4-FS enclosures conform to the National Electrical Manufacturers Association (NEMA) standard for Type 3 (Dusttight, Raintight, and Sleet/Ice Resistant), Type 3R (Rainproof and Sleet/Ice Resistant), Type 4 (Watertight and Dusttight), Type 12 (Industrial Use) and Type 13 (Oiltight and Dusttight) enclosures. These enclosures conform to Joint Industry Council (JIC) standard EGP-1-1967. They are listed by Underwriters' Laboratories, Inc. (UL) and are certified by the Canadian Standards Association (CSA).



## NEMA Type 4 Freestanding Single Door Enclosures



Item No.	Catalog No.	Dimensions (in) H x W x D	Material Thickness Box / Cover	Weight (lbs)	Panel Catalog No.	Panel Size (in)
28278	N4-FS-723612	72 x 36 x 12	12 / 12	360	FS-72P36F	62.00 x 32.25
28279	N4-FS-722418	72 x 24 x 18	12 / 12	285	FS-72P24F	62.00 x 20.25
28280	N4-FS-723618	72 x 36 x 18	12 / 12	385	FS-72P36F	62.00 x 32.25

All dimensions in inches



Enclosures on Demand<sup>SM</sup>

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# NEMA Type 4 Floor Mounted Double Door Enclosures

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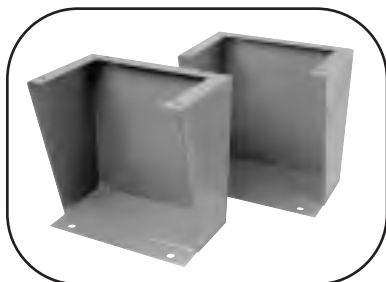
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Remke Cord Grips

Kooltronic™ Cooling

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Two 12" mounting feet are included with each N4-DDF enclosure.

## Application

Ralston's N4-DDF double-door enclosures are used indoors and outdoors to house such items as electronic controls, instrumentation systems, and pneumatic, hydraulic and machine tool controls.

These enclosures are designed to provide protection against dust, dirt, oil and water. They are suitable for areas such as dairies, breweries and similar environments where they are subject to frequent high pressure hosing and generally wet conditions. (Not submersible.)

## Construction

Ralston's N4-DDF enclosures are made from 12 ga. cold rolled steel and have continuously welded seams ground to a smooth finish. The N4-DDF enclosure has a folded lip around the door opening to provide complete and maximum gasket contact and to prevent liquids from dripping into the enclosure when the door is open.

Each enclosure is equipped with 1/4-20 grounding studs, two 5/8 eye bolts complete with solid rubber seals, and reinforcing support angles welded to the top of the enclosure for easy handling. The N4-DDF enclosure is equipped with wall mounting brackets and body stiffeners. Each enclosure comes complete with 3/8 collar studs (for mounting panels) and has two support brackets welded to the bottom of the enclosure to aid in panel installation. Each enclosure is equipped with two 12" mounting feet (supplied loose).

Each enclosure door is equipped with neoprene gasket, a removable print pocket, 1/4-20 grounding studs, stainless steel door clamping hardware on three sides and a padlocking hasp. Each door rests on a removable center mullion which also provides for easy panel installation. Doors are easily removed by pulling the pin on the continuous stainless steel piano hinge. There are no knock-outs or holes in the doors or body.

## Panels

Panels are included and are fabricated from 12 ga. cold rolled steel.

## Finish

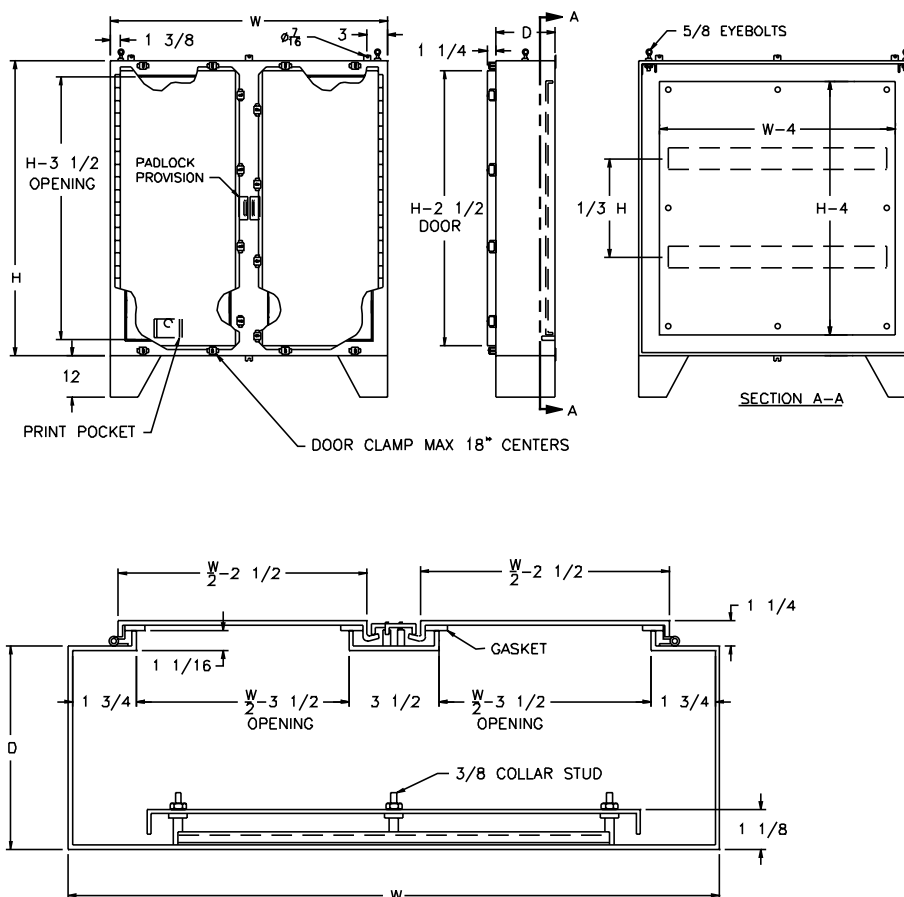
All enclosures are phosphatized and finished inside and out with ANSI/ASA 61 gray polyester powder coating. Panels are finished with a high gloss white polyester powder coating.

## Standards

Ralston's N4-DDF enclosures conform to the National Electrical Manufacturers Association (NEMA) standard for Type 3 (Dusttight, Raintight and Sleet/Ice Resistant), Type 3R (Rainproof and Sleet/Ice Resistant), Type 4 (Watertight and Dusttight), Type 12 (Industrial Use) and Type 13 (Oiltight and Dusttight) enclosures. These enclosures conform to Joint Industry Council (JIC) standard EHP-1-1967. They are listed by Underwriters' Laboratories, Inc. (UL) and are certified by the Canadian Standards Associate (CSA).



# NEMA Type 4 Floor Mounted Double Door Enclosures



Item No.	Catalog No.	Dimensions (in) H x W x D	Material Thickness Box / Cover	Weight (lbs)	Panel Catalog No.	Panel Size (in)
28851	N4-DDF-604810	60 x 48 x 10	12 / 12	386	D-60P48	56.00 x 44.00
28852	N4-DDF-606012	60 x 60 x 12	12 / 12	488	D-60P60	56.00 x 56.00
28853	N4-DDF-726012	72 x 60 x 12	12 / 12	578	D-72P60	68.00 x 56.00
28854	N4-DDF-727212	72 x 72 x 12	12 / 12	693	D-72P72	68.00 x 68.00
28855	N4-DDF-727224	72 x 72 x 24	12 / 12	805	D-72P72	68.00 x 68.00

All dimensions in inches

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# Control Concepts® — Contact Blocks

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Aluminum  
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Fiberglass  
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Industrial  
Pilot Devices

PowerSpec®  
Connectors

Sky-Tie™  
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Cord Grips

Kooltronic™  
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Contact blocks feature a convenient snap-on assembly and are stackable up to four deep for a total of eight circuits per operator.

Blocks are color-coded for ready circuit identification to minimize wiring error and speed the wiring process.

Contact blocks have a transparent plastic cover for contact inspections, stainless steel springs, fine silver contacts, self-lubricating thermoplastic stroker and steel plated terminal screws with captive pressure plates.

Item No.	Cat No.	Description	Color Code
31188	CBNO	Contact block-normally open	Green
31189	CBNC	Contact block-normally closed	Red



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# Control Concepts® — Pushbutton Operators



Flush Cap



Extended Cap



Mushroom Head Cap

The 30mm line of pushbutton operators features all polyester construction for superior corrosion resistance, #6 terminals screws have self-lifting captive wire clamps to accommodate #22 through two #12 wires per terminal.

Units mount in round 30mm or 1-13/64 holes and are directly interchangeable with competitor units. 2 position push-pull maintained operators are also available.

Color caps are interchangeable for increased flexibility. The aluminum clamp ring units available provide a shiny metal appearance.

All pushbutton operators are provided with one normally open and one normally closed contact block and are rated NEMA 4X watertight/corrosion resistant as standard which meets or exceeds NEMA 1, 2, 3, 3R, 4, 4X, 12 and 13 requirements.



Item No.	Cat No.	Description
35557	PBO-FCGN-NO/NC	Pushbutton operator, green flush cap, with polyester clamp ring
35558	PBO-FCRD-NO/NC	Pushbutton operator, red flush cap, with polyester clamp ring
35566	PBO-PPJMCRD-NO/NC	Push-pull operator with red jumbo mushroom head cap
35567	PBO-PPMCRD-NO/NC	Push-pull operator with red mushroom head cap
35568	PBO-APPMCRD-NO/NC	Push-pull operator with red mushroom head cap, aluminum clamp ring
35569	PBO-AMCRD-NO/NC	Pushbutton operator, red mushroom head cap, with aluminum clamp ring
35570	PBO-XCRD-NO/NC	Pushbutton operator, red extended head cap, with polyester clamp ring
35571	PBO-XCGN-NO/NC	Pushbutton operator, green extended head cap, with polyester clamp ring



# Control Concepts® — Illuminated Pushbuttons

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**Bulb**



**Transformer and Incandescent Resistor Type**



**Full Voltage Type**

All illuminated pushbuttons are 120V and are provided with one normally open and one normally closed contact block.

All units are provided less the bulb which is available for separate purchase in 6, 12, 24 and 120 volts. Full voltage, transformer (50/60 Hz) and incandescent resistor types are all offered.

The illuminated pushbuttons mount in round 30mm or 1-13/64 holes and feature all polyester construction, including clamp ring, for corrosion resistance.

Color caps are interchangeable. All units are rated NEMA 4X as standard.



Item No.	Cat No.	Description
31238	FVB6	6V bulb
31239	FVB12	12V bulb
31240	FVB24	24V bulb
31241	FVB120	120V bulb
35559	FVLU120NL-IPBCGN-NO/NC	120V full voltage type illuminated pushbutton, green cap, less bulb
35560	FVLU120NL-IPBCAR-NO/NC	120V full voltage type illuminated pushbutton, amber cap, less bulb
35561	FVLU120NL-IPBCRD-NO/NC	120V full voltage type illuminated pushbutton, red cap, less bulb
35572	TFLU120-IPBCRD-NO/NC	120V transformer type illuminated pushbutton, red cap, polyester clamp ring
35573	RLU120-IPBCRD-NO/NC	120V incandescent resistor type illuminated pushbutton, red cap, polyester clamp ring



## Control Concepts® — Pilot Lights



**Full Voltage Type**



**Transformer Type  
Push-To-Start**



**Transformer Type  
Push-Pull**

All pilot lights are constructed of polyester, including clamp ring, for corrosion resistance and are rated NEMA 4X as standard.

Interchangeable color caps provide flexibility. 120V full voltage and transformer (50/60 Hz) types are offered including push-to-test and 2 position push-pull maintained units. Full voltage type units are supplied less the bulb with an option to purchase in 6, 12, 24 or 120 volts while the transformer types are supplied with a 120V bulb.

Contact blocks for these units must be purchased separately except for the push-pull maintained operator which is supplied standard with one normally open and one normally closed contact block.



Item No.	Cat No.	Description
35563	FVLU120NL-PLLG	120V full voltage type pilot light, green cap, less bulb
35564	FVLU120NL-PLLAR	120V full voltage type pilot light, amber cap, less bulb
35565	FVLU120NL-PLLRD	120V full voltage type pilot light, red cap, less bulb
35574	TFPTT120-IPBCRD	120V transformer type push-to-test illuminated pilot light, red cap, polyester clamp ring
35575	TFPPM120-IMCRD-NO/NC	120V transformer type push-pull illuminated pilot light, red cap, normally closed

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# Control Concepts® — Selector Switches

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Selector Switch Operator



Key Operated Switch

All selector switch operators are of polyester construction, including clamp ring, for corrosion resistance and rated NEMA 4X as standard.

Operators mount in round 30mm or 1-13/64 holes. Standard 2 and 3 maintained position selector switch units have a white insert on handle. One selector switch cam provides every possible contact circuit sequence.

The 2 position key operated selector switch offers maintained operation with key removal in all positions. Key is made of extra heavy double-bitted brass for long life.

Contact sequences are the same as standard selector switches. All selector switch units are supplied standard with contact blocks for required number of positions.



Item No.	Cat No.	Description
35562	SS03-SHWE-NO/NO	3 position selector switch operator-maintained position
35576	SS02-SHWE-NO/NC	2 position selector switch operator-maintained position
35577	KOSS2-KA-NO/NC	2 position key operated selector switch-maintained position, key removal in all positions



## Control Concepts® — Special Operators



Potentiometer Operator

The potentiometer operator is supplied with a 2.5k pot and is constructed of polyester including clamp ring. Rated NEMA 4X as standard.

This operator accepts 2 watt pots with 3/8" bushing and either 2" or 7/8" slotted shafts. Unit mounts in round 30mm or 1-13/64 holes.



Item No.	Cat No.	Description
31390	POTO-2.5K	Potentiometer operator with 2.5K pot

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## Control Concepts® — Legend Plates

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Legend Plates



The 10 legend plates offered are a standard 2" x 2" size. Legend plates are a 2 ply laminated plastic, machine engraved for permanence and quality appearance.

For the blank legend plate offered, a maximum number of 2 lines with 16 characters per line can be engraved. No special legend plates are available other than those shown.

Item No.	Cat No.	Description
31291	LP-12	Off legend plate
31292	LP-13	On legend plate
31293	LP-22	Start legend plate
31294	LP-23	Stop legend plate
33350	LP-04	Emergency stop legend plate
33356	LP-11	Manual legend plate
33365	LP-24	Test legend plate
33574	LP-41	0-10 "Speed" legend plate
33576	LP-44	0-100 "Speed" legend plate
34334	LP-00	Blank legend plate



## Cross Reference — Allen-Bradley vs. Control Concepts

Allen-Bradley Catalog No.	CONTROL CONCEPTS Catalog No.	Description
800T-XD1	CBNO	Contact block-normally open
800T-XD2	CBNC	Contact block-normally closed
800H-AR1A	PBO-FCGN-NO/NC	Pushbutton operator, green flush cap, with polyester clamp ring
800H-AR6A	PBO-FCRD-NO/NC	Pushbutton operator, red flush cap, with polyester clamp ring
800T-D6A	PBO-AMCRD-NO/NC	Pushbutton operator, red mushroom head cap, with aluminum clamp ring
800H-BR6A	PBO-XCRD-NO/NC	Pushbutton operator, red extended head cap, with polyester clamp ring
800H-BR1A	PBO-XCGN-NO/NC	Pushbutton operator, green extended head cap, with polyester clamp ring
800T-N65	FVB6	6V bulb
800T-N141	FVB12	12V bulb
800T-N157	FVB24	24V bulb
800T-N169 (130V)	FVB120	120V bulb
800H-PRB16R	TFLU120-IPBCRD-NO/NC	120V transformer type illuminated pushbutton, red cap, polyester clamp ring
800H-QRB11R	RLU120I-IPBCRD-NO/NC	120V incandescent resistor type illuminated pushbutton, red cap, polyester clamp ring
800H-PRT16R	TFPTT120-IPBCRD	120V transformer type push-to-test illuminated pilot light, red cap, polyester clamp ring
800H-QRM10R	TFPPM120-IMCRD-NO/NC	120V transformer type push-pull illuminated pilot light, red cap, normally closed
800H-HR2A	SS02-SHWE-NO/NC	2 position selector switch operator- maintained position
800H-JR2A	SS03-SHWE-NO/NO	3 position selector switch operator-maintained position
800T-H33A	KOSS2-KA-NO/NC	2 position key operated selector switch-maintained position, key removal in all positions
800T-U55	POTO-2.5K	Potentiometer operator with 2.5K pot
800H-W100	LP-00	Blank legend plate - All Control Concepts legend plates are black with white letters. (All AB are Gray)
800H-W373	LP-04	"Emergency stop" legend plate
800H-W116	LP-12	"Off" legend plate
800H-W117	LP-13	"On" legend plate
800H-W126	LP-22	"Start" legend plate
800H-W371	LP-23	"Stop" legend plate
800H-W128	LP-24	"Test" legend plate
800H-W081	LP-41	0-10 "Speed" legend plate

Note: Catalog numbers listed are closest equivalents, not necessarily identical.



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## Assembly of PowerSpec® Cable Connectors

1. Install PowerSpec fitting assembly into the enclosure fitting entrance. If the entrance hole is unthreaded, use a lock nut and bushing (not included) on the inside of the enclosure. If the enclosure is threaded, tighten fitting into the threaded opening. Flange gasket should seat between body and enclosure wall.
2. Insert cable completely into PowerSpec fitting until armor rests against inside wall (see figure 1)
3. Tighten the gland nut with sufficient torque to compress neoprene grommet onto cable jacket (see table 1 for recommended tightening torque values).

Table 1: Recommended Tightening Torques

Catalog Number	Torque	Catalog Number	Torque
PS-065-05	300 in. lbs.	PS-138-10	700 in. lbs.
PS-075-05	300 in. lbs.	PS-150-12	1000 in. lbs.
PS-085-05	300 in. lbs.	PS-168-12	1000 in. lbs.
PS-115-07	500 in. lbs.	PS-183-15	1200 in. lbs.
PS-125-10	700 in. lbs.	PS-200-15	1200 in. lbs.

## Applicable Standard

Meets UL standard for rain tight armored cable fitting.

Where jacketed metal clad (MC) cable is installed in a non-hazardous or Division 2 area where sealing is not required. The connector is hexagonally designed for easy wrenching with a minimal overall length. The connector is UL listed according to UL 514B and does not require any disassembly to install.

## Applications

For terminating TECK and jacketed metal clad cable.

For vertical or horizontal runs.

## Features

- Fast, simple installation
- 360 degree grounding system provides superior conductivity
- Durable seal prohibits cable twisting or pull-out
- Watertight (UL-50 listed as a Type 4 cable fitting)
- Compact Design
- Lightweight and corrosion resistant

## Material Finish

Body, nut: Copper-free aluminum

Flange gasket, grommet: neoprene

Armor stop: phenolic

Spring: phosphur bronze

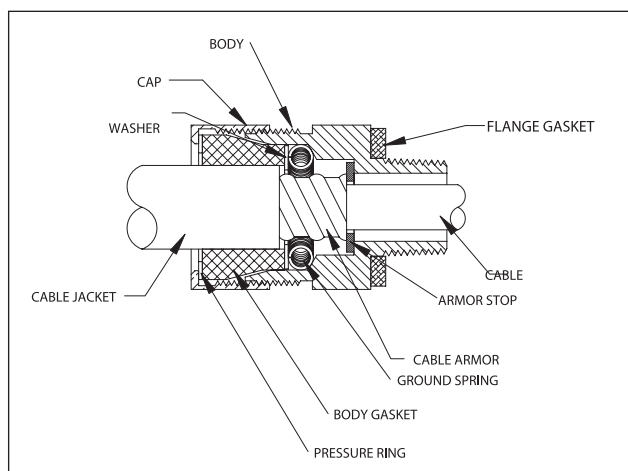
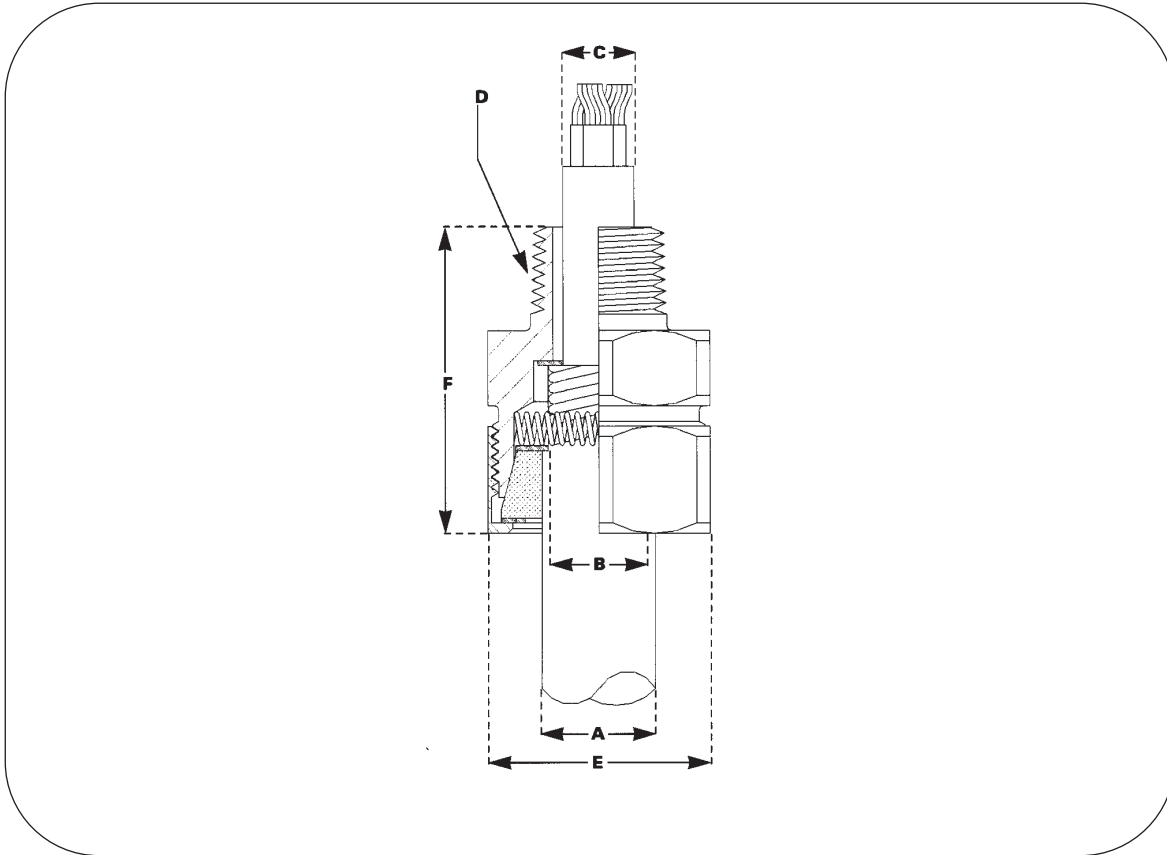


Figure 1





Item No.	Catalog Number	Std. Package Qty.	A Diameter Over Jacket		B Diameter Over Armor		C Maximum Cable Core Diameter	D Conduit Size	E Fitting O.D.	F Length Overall	Package Weight (lbs.)
63000X10	PS-065-05	10	0.55"	0.65"	0.45"	0.56"	0.56"	1/2"	1 5/8"	2 1/6"	2.5
63001X10	PS-075-05	10	0.65"	0.75"	0.55"	0.66"	0.56"	1/2"	1 5/8"	2 1/6"	2.5
63002X10	PS-085-05	10	0.75"	0.85"	0.65"	0.76"	0.56"	1/2"	1 5/8"	2 1/6"	2.5
63004X10	PS-115-07	10	1.00"	1.15"	0.87"	1.05"	0.82"	3/4"	2"	2 3/16"	3.3
63005X10	PS-125-10	10	1.13"	1.25"	1.00"	1.15"	1.00"	1"	2 3/16"	2 7/16"	5
63006X10	PS-138-10	10	1.25"	1.38"	1.12"	1.28"	1.00"	1"	2 3/16"	2 7/16"	5
63007X6	PS-150-12	6	1.33"	1.50"	1.23"	1.40"	1.33"	1 1/4"	2 7/8"	2 7/8"	4
63008X6	PS-168-12	6	1.50"	1.68"	1.40"	1.58"	1.33"	1 1/4"	2 7/8"	2 7/8"	4
63009X4	PS-183-15	4	1.68"	1.83"	1.58"	1.73"	1.61"	1 1/2"	3 1/4"	3 5/8"	4
63010X4	PS-200-15	4	1.83"	2.00"	1.73"	1.90"	1.61"	1 1/2"	3 1/4"	3 5/8"	4



# Sky-Tie® — Bus-Drop Cable Clamps

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## Supports...

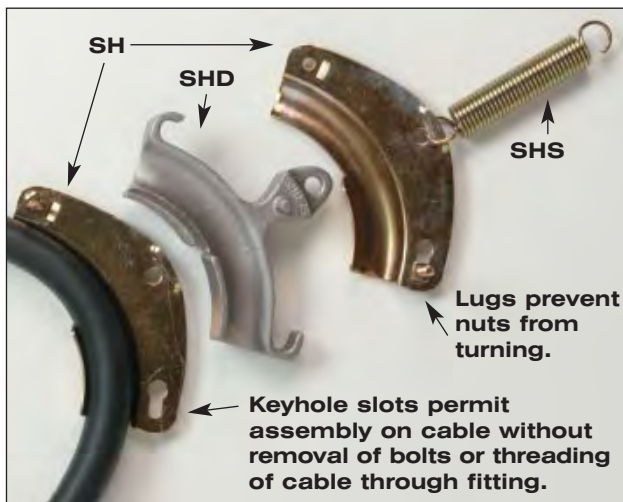
Cable up to 1-1/8" diameter. Uniform "lap" design of each clamp-half results in support along the entire quarter bend.

## Anchors...

Cable for 90° angle transitions using a simple, two-piece construction of interchangeable clamp-halves.

## Loops...

Excess cable for convenient handling and out-of-the-way storage, via the Sky-Tie™ SHD Duplex Converter. The SHD reduces the need to cut cable when machines are moved to new locations. The SHD converter simply fits between the two halves of the Sky-Tie™ SH cable clamps.



## Perfect For:

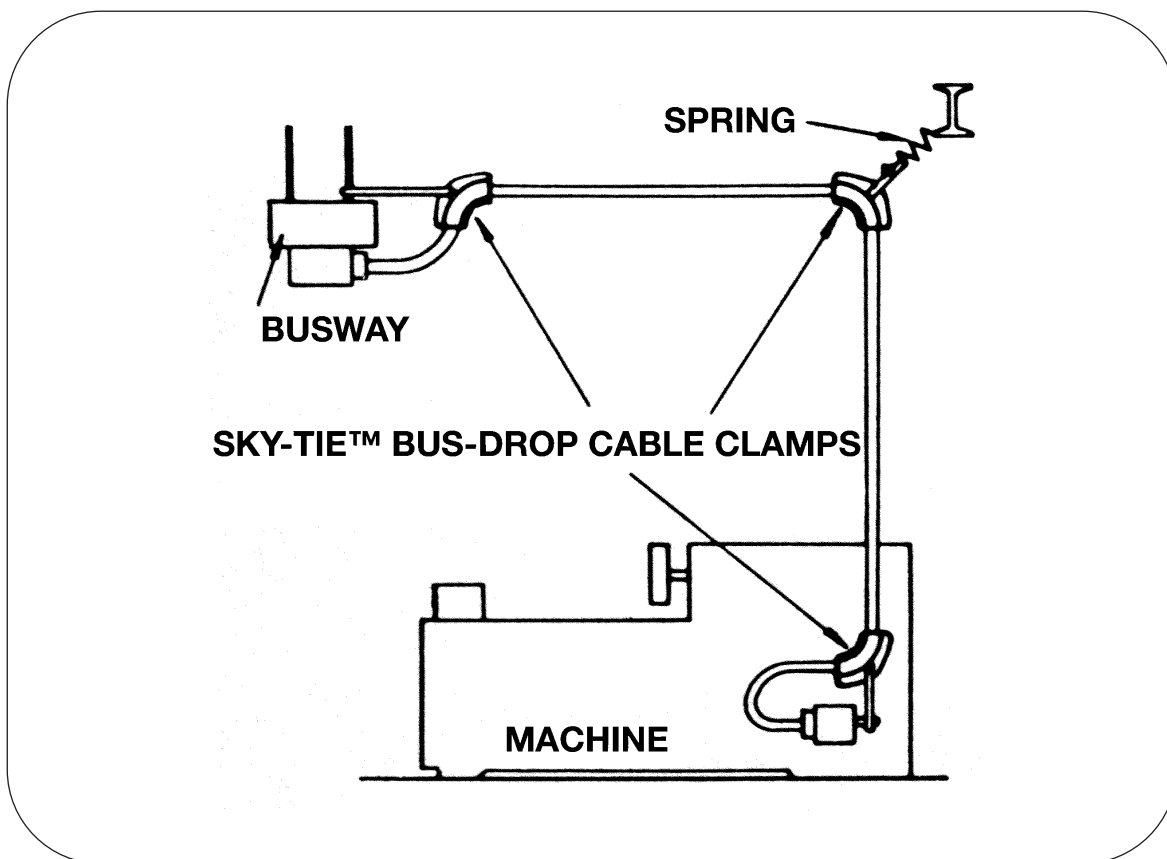
- Machine Tools
- Portable Tools
- Air Lines
- Other heavy-cable support applications.

## Sky-Tie™ Springs

Heavy-duty Sky-Tie™ Springs insure tautness of the cable, while absorbing vibrations and shocks. Each spring slips into the Sky-Tie™ clamp at its outside bend (or, if using the SHD Duplex, the converter's outside bend), and ties back to a structural member. Three spring models with maximum load capacities of 60, 70 and 160 pounds.



# Sky-Tie® — Bus-Drop Cable Clamps



## Sky-Tie™ Two-In-One Cable Clamps

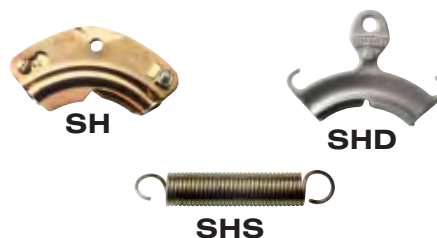
Item Number	Catalog Number	Cable OD (Inches)	Typical Multi-Conductor Cable Size	Std. Carton	
				Qty.	Approx. Wt.
13282	SH-50	1/2 to 3/4	14/4 thru 8/4	10	3.5
13285	SH-75	3/4 to 1-1/8	8/4 thru 3/4 or (1) 500 MCM	10	7
13279	SH-1125	1-1/8 to 1-11/16	Special Applications	5	10

## Sky-Tie™ "Duplex" Component

13288	SHD-50	1/2 to 3/4	14/4 thru 3/4	10	3.25
13291	SHD-75	3/4 to 1-1/8	8/4 thru 3/4 or (1) 500 MCM	10	7

## Sky-Tie™ Springs

Item Number	Catalog Number	Max. Spring Load	Std. Carton	
			Qty.	Approx. Wt.
1990	SHS-50	60 lbs.	10	2.2
1991	SHS-75	70 lbs.	10	2.7
2959	SHS-1125	160 lbs.	5	5.5



## Cord Grips — Aluminum RSR Series

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**REMKE**

### Certification & Compliances

- UL Standard: 514 File #E53599
- CSA Standard C22.2 #18 File #28985
- National Electrical Code Articles 400-10 and 400-14
- NEMA Standards FBI-1983
- Hazardous Locations: NEC Sec. 501-4(b)502-4(a)(2), and 503-3(a). For Class I, Div.2; Class II, Div. 1 and 2; and Class III, Div. 1 and 2.

### Straight Body, External Cord Thread

RSR Aluminum Series Grips are used in conduit hubs or knock-outs at the point where the electrical cable is to be terminated.

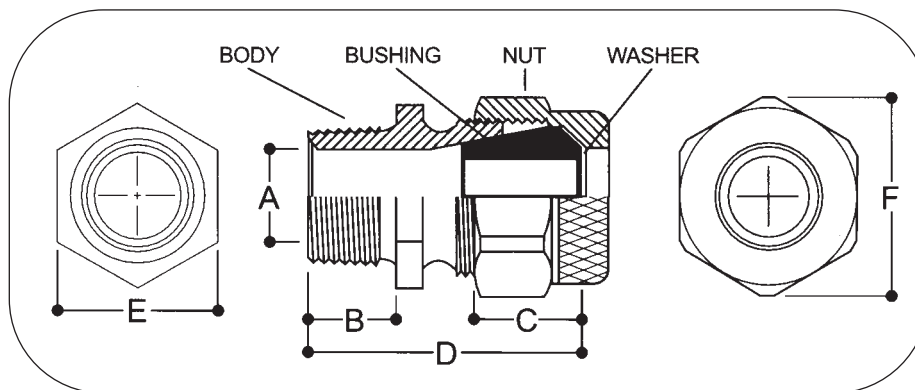
They are used in indoor as well as outdoor applications to prevent cable pullout, control cable arc of bend, and provide an environmental seal against dirt, moisture, coolants, corrosive fumes, etc.

The seal is accomplished when the tapered rubber bushing (Neoprene) is driven into a tapered seat in the grip body by tightening the nut. An anti-friction washer is supplied between the nut and bushing for ease in compression.

Remke's rugged cord grips protect cable from damage. They are offered in machined aluminum, steel, stainless steel, and nylon fittings. These fittings are also offered in a variety of configurations as well as N.P.T. and PG metric thread sizes.



# Cord Grips — Aluminum RSR Series



Item Number	Conduit Size	Cable Range	Std. Package Qty.	Std. Package Wt. (lbs.)	A Body Bore	B	C	D	E Body Hex	F Nut Dia.
RSR-103	1/2"	.125-.188	25	3	0.62	0.56	0.72	1.81	1.00	1.26
RSR-104	1/2"	.188-.250	25	3	0.62	0.56	0.72	1.81	1.00	1.26
RSR-105	1/2"	.250-.312	25	3	0.62	0.56	0.72	1.81	1.00	1.26
RSR-106	1/2"	.312-.375	25	3	0.62	0.56	0.72	1.81	1.00	1.26
RSR-107	1/2"	.375-.438	25	3	0.62	0.56	0.72	1.81	1.00	1.26
RSR-108	1/2"	.438-.500	25	3	0.62	0.56	0.72	1.81	1.00	1.26
RSR-109	1/2"	.500-.562	25	3	0.62	0.56	0.72	1.81	1.00	1.26
RSR-110	1/2"	.562-.625	25	3	0.62	0.56	0.72	1.81	1.00	1.26
RSR-2103	3/4"	.125-.188	25	3	0.62	0.56	0.72	1.81	1.12	1.26
RSR-2104	3/4"	.188-.250	25	3	0.62	0.56	0.72	1.81	1.12	1.26
RSR-2105	3/4"	.250-.312	25	3	0.62	0.56	0.72	1.81	1.12	1.26
RSR-2106	3/4"	.312-.375	25	3	0.62	0.56	0.72	1.81	1.12	1.26
RSR-2107	3/4"	.375-.438	25	3	0.62	0.56	0.72	1.81	1.12	1.26
RSR-2108	3/4"	.438-.500	25	3	0.62	0.56	0.72	1.81	1.12	1.26
RSR-2109	3/4"	.500-.562	25	3	0.62	0.56	0.72	1.81	1.12	1.26
RSR-2110	3/4"	.562-.625	25	3	0.62	0.56	0.72	1.81	1.12	1.26
RSR-208	3/4"	.438-.500	20	3	0.81	0.57	0.86	2.06	1.25	1.55
RSR-209	3/4"	.438-.562	20	3	0.81	0.57	0.86	2.06	1.25	1.55
RSR-210	3/4"	.500-.625	20	3	0.81	0.57	0.86	2.06	1.25	1.55
RSR-211	3/4"	.562-.688	20	3	0.81	0.57	0.86	2.06	1.25	1.55
RSR-212	3/4"	.625-.750	20	3	0.81	0.57	0.86	2.06	1.25	1.55
RSR-213	3/4"	.688-.812	20	3	0.81	0.57	0.86	2.06	1.25	1.55
RSR-309	1"	.438-.562	15	3	1.00	0.62	0.97	2.31	1.44	1.74
RSR-310	1"	.500-.625	15	3	1.00	0.62	0.97	2.31	1.44	1.74
RSR-311	1"	.562-.688	15	3	1.00	0.62	0.97	2.31	1.44	1.74
RSR-312	1"	.625-.750	15	3	1.00	0.62	0.97	2.31	1.44	1.74
RSR-313	1"	.688-.812	15	3	1.00	0.62	0.97	2.31	1.44	1.74
RSR-314	1"	.750-.875	15	3	1.00	0.62	0.97	2.31	1.44	1.74
RSR-315	1"	.812-.938	15	3	1.00	0.62	0.97	2.31	1.44	1.74
RSR-316	1"	.875-1.000	15	3	1.00	0.62	0.97	2.31	1.44	1.74
RSR-3516	1"	.875-1.000	20	8	1.10	0.70	1.25	2.78	2.00	2.47
RSR-3518	1"	1.000-1.125	20	8	1.10	0.70	1.25	2.78	2.00	2.47
RSR-3520	1"	1.125-1.250	20	8	1.10	0.70	1.25	2.78	2.00	2.47
RSR-3522	1"	1.250-1.375	20	8	1.10	0.70	1.25	2.78	2.00	2.47
RSR-411	1 1/4"	.562-.688	20	9	1.30	0.70	1.25	2.78	2.00	2.47
RSR-413	1 1/4"	.688-.812	20	9	1.30	0.70	1.25	2.78	2.00	2.47
RSR-414	1 1/4"	.750-.875	20	9	1.30	0.70	1.25	2.78	2.00	2.47
RSR-416	1 1/4"	.875-1.000	20	9	1.30	0.70	1.25	2.78	2.00	2.47
RSR-418	1 1/4"	1.000-1.125	20	9	1.30	0.70	1.25	2.78	2.00	2.47
RSR-420	1 1/4"	1.125-1.250	20	9	1.30	0.70	1.25	2.78	2.00	2.47
RSR-422	1 1/4"	1.250-1.375	20	9	1.30	0.70	1.25	2.78	2.00	2.47
RSR-511	1 1/2"	.562-.688	20	9	1.43	0.70	1.25	2.78	2.47	2.47
RSR-513	1 1/2"	.688-.812	20	9	1.43	0.70	1.25	2.78	2.47	2.47
RSR-514	1 1/2"	.750-.875	20	9	1.43	0.70	1.25	2.78	2.47	2.47
RSR-516	1 1/2"	.875-1.000	20	9	1.43	0.70	1.25	2.78	2.47	2.47
RSR-518	1 1/2"	1.000-1.125	20	9	1.43	0.70	1.25	2.78	2.47	2.47
RSR-520	1 1/2"	1.125-1.250	20	8	1.43	0.70	1.25	2.78	2.47	2.47
RSR-522	1 1/2"	1.250-1.375	20	8	1.43	0.70	1.25	2.78	2.47	2.47
RSR-622	2"	1.250-1.375	6	6	2.00	0.81	1.72	3.75	2.83	2.97
RSR-625	2"	1.438-1.562	6	6	2.00	0.81	1.72	3.75	2.83	2.97
RSR-627	2"	1.562-1.688	6	6	2.00	0.81	1.72	3.75	2.83	2.97
RSR-629	2"	1.688-1.812	6	5	2.00	0.81	1.72	3.75	2.83	2.97

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## Cord Grips — Aluminum RSR Series with Wire Mesh

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**REMKE**

### Certification and Compliances

- UL Standard: 514 File #E53599
- CSA Standard C22.2 #18 File #28985
- National Electrical Code Articles 400-10 and 400-14
- NEMA Standards FBI-1983
- Hazardous Locations: NEC Sec. 501-4(b) 502-4(a)(2), and 503-3(a). For Class I, Div. 2; Class II, Div. 1 and 2; and Class III, Div. 1 and 2.

### Straight Body, External Cord Thread

RSR Aluminum Series Grips are used in conduit hubs or knock-outs at the point where the electrical cable is to be terminated.

They are used in indoor as well as outdoor applications to prevent cable pullout, control cable arc of bend, and provide an environmental seal against dirt, moisture, coolants, corrosive fumes, etc.

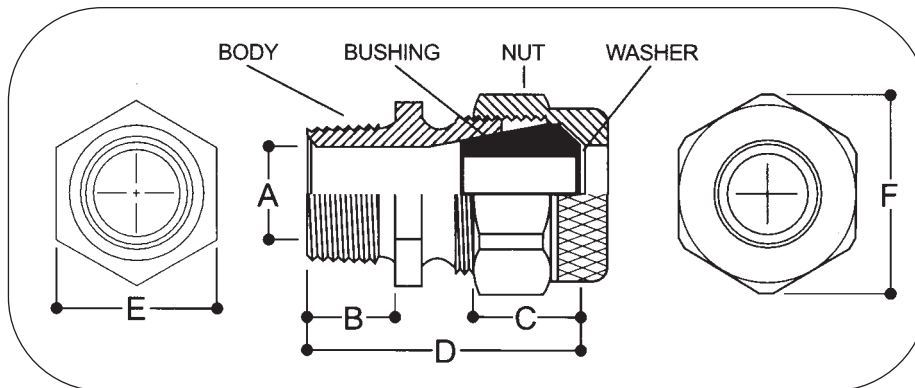
The seal is accomplished when the tapered rubber bushing (Neoprene) is driven into a tapered seat in the grip body by tightening the nut. An anti-friction washer is supplied between the nut and bushing for ease in compression.

Remke's rugged cord grips protect cable from damage. They are offered in machined aluminum, steel, stainless steel, and nylon fittings. These fittings are also offered in a variety of configurations as well as N.P.T. and PG metric thread sizes.





# Cord Grips — Aluminum RSR Series with Wire Mesh



Item Number	Conduit Size	Cable Range	Std. Package Qty.	Std. Package Wt. (lbs.)	A Body Bore	B	C	D	E Body Hex	F Nut Dia.
RSR-104-E	1/2"	.188-.250	10	2	0.62	0.56	0.72	1.81	1.00	1.26
RSR-105-E	1/2"	.250-.312	10	2	0.62	0.56	0.72	1.81	1.00	1.26
RSR-106-E	1/2"	.312-.375	10	2	0.62	0.56	0.72	1.81	1.00	1.26
RSR-107-E	1/2"	.375-.438	10	2	0.62	0.56	0.72	1.81	1.00	1.26
RSR-108-E	1/2"	.438-.500	10	2	0.62	0.56	0.72	1.81	1.00	1.26
RSR-109-E	1/2"	.500-.562	10	2	0.62	0.56	0.72	1.81	1.00	1.26
RSR-110-E	1/2"	.562-.625	10	2	0.62	0.56	0.72	1.81	1.00	1.26
RSR-2104-E	3/4"	.188-.250	10	2	0.62	0.56	0.72	1.81	1.12	1.26
RSR-2105-E	3/4"	.250-.312	10	2	0.62	0.56	0.72	1.81	1.12	1.26
RSR-2106-E	3/4"	.312-.375	10	2	0.62	0.56	0.72	1.81	1.12	1.26
RSR-2107-E	3/4"	.375-.438	10	2	0.62	0.56	0.72	1.81	1.12	1.26
RSR-2108-E	3/4"	.438-.500	10	2	0.62	0.56	0.72	1.81	1.12	1.26
RSR-2109-E	3/4"	.500-.562	10	2	0.62	0.56	0.72	1.81	1.12	1.26
RSR-2110-E	3/4"	.562-.625	10	2	0.62	0.56	0.72	1.81	1.12	1.26
RSR-208-E	3/4"	.438-.500	2	1	0.81	0.57	0.86	2.06	1.25	1.55
RSR-209-E	3/4"	.438-.562	5	1	0.81	0.57	0.86	2.06	1.25	1.55
RSR-210-E	3/4"	.500-.625	5	1	0.81	0.57	0.86	2.06	1.25	1.55
RSR-211-E	3/4"	.562-.688	5	1	0.81	0.57	0.86	2.06	1.25	1.55
RSR-212-E	3/4"	.625-.750	5	1	0.81	0.57	0.86	2.06	1.25	1.55
RSR-213-E	3/4"	.688-.812	2	1	0.81	0.57	0.86	2.06	1.25	1.55
RSR-309-E	1"	.438-.562	5	2	1.00	0.62	0.97	2.31	1.44	1.74
RSR-310-E	1"	.500-.625	5	2	1.00	0.62	0.97	2.31	1.44	1.74
RSR-311-E	1"	.562-.688	1	1	1.00	0.62	0.97	2.31	1.44	1.74
RSR-312-E	1"	.625-.750	1	1	1.00	0.62	0.97	2.31	1.44	1.74
RSR-313-E	1"	.688-.812	1	1	1.00	0.62	0.97	2.31	1.44	1.74
RSR-314-E	1"	.750-.875	1	1	1.00	0.62	0.97	2.31	1.44	1.74
RSR-315-E	1"	.812-.938	1	1	1.00	0.62	0.97	2.31	1.44	1.74
RSR-316-E	1"	.875-1.000	2	1	1.00	0.62	0.97	2.31	1.44	1.74
RSR-3516-E	1"	.875-1.000	1	1	1.10	0.70	1.25	2.78	2.00	2.47
RSR-3518-E	1"	1.000-1.125	1	1	1.10	0.70	1.25	2.78	2.00	2.47
RSR-3520-E	1"	1.125-1.250	1	2	1.10	0.70	1.25	2.78	2.00	2.47
RSR-3522-E	1"	1.250-1.375	1	2	1.10	0.70	1.25	2.78	2.00	2.47
RSR-416-E	1 1/4"	.875-1.000	1	2	1.30	0.70	1.25	2.78	2.00	2.47
RSR-418-E	1 1/4"	1.000-1.125	1	2	1.30	0.70	1.25	2.78	2.00	2.47
RSR-420-E	1 1/4"	1.125-1.250	1	2	1.30	0.70	1.25	2.78	2.00	2.47
RSR-422-E	1 1/4"	1.250-1.375	1	2	1.30	0.70	1.25	2.78	2.00	2.47
RSR-516-E	1 1/2"	.875-1.000	1	2	1.43	0.70	1.25	2.78	2.47	2.47
RSR-518-E	1 1/2"	1.000-1.125	1	2	1.43	0.70	1.25	2.78	2.47	2.47
RSR-520-E	1 1/2"	1.125-1.250	1	2	1.43	0.70	1.25	2.78	2.47	2.47
RSR-522-E	1 1/2"	1.250-1.375	1	2	1.43	0.70	1.25	2.78	2.47	2.47
RSR-5622-E	1 1/2"	1.250-1.375	2	3	1.50	1.00	1.72	3.88	2.90	2.97
RSR-5625-E	1 1/2"	1.438-1.562	2	3	1.50	1.00	1.72	3.88	2.90	2.97
RSR-5627-E	1 1/2"	1.562-1.688	2	3	1.50	1.00	1.72	3.88	2.90	2.97
RSR-5629-E	1 1/2"	1.688-1.812	2	3	1.50	1.00	1.72	3.88	2.90	2.97
RSR-622-E	2"	1.250-1.375	2	3	2.00	0.81	1.72	3.75	2.83	2.97
RSR-625-E	2"	1.438-1.562	1	2	2.00	0.81	1.72	3.75	2.83	2.97
RSR-627-E	2"	1.562-1.688	1	2	2.00	0.81	1.72	3.75	2.83	2.97
RSR-629-E	2"	1.688-1.812	1	2	2.00	0.81	1.72	3.75	2.83	2.97

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**REMKE**

### Certification and Complies

- UL Standard: 514 File #E53599
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- Hazardous Locations: NEC Sec. 501-4(b)502-4(a)(2), and 503-3(a). For Class I, Div.2; Class II, Div. 1 and 2; and Class III, Div. 1 and 2.

### 90° Body, External Cord Thread

RSR Aluminum Series Grips are used in conduit hubs or knock-outs at the point where the electrical cable is to be terminated.

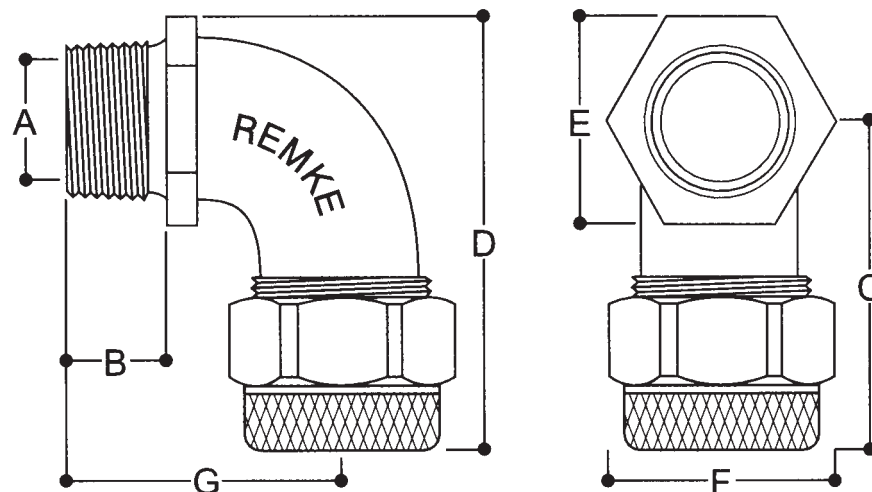
They are used in indoor as well as outdoor applications to prevent cable pullout, control cable arc of bend, and provide an environmental seal against dirt, moisture, coolants, corrosive fumes, etc.

The seal is accomplished when the tapered rubber bushing (Neoprene) is driven into a tapered seat in the grip body by tightening the nut. An anti-friction washer is supplied between the nut and bushing for ease in compression.

Remke's rugged cord grips protect cable from damage. They are offered in machined aluminum, steel, stainless steel, and nylon fittings. These fittings are also offered in a variety of configurations as well as N.P.T. and PG metric thread sizes.



## Cord Grips — Aluminum RSR Series 90° Body



Item Number	Conduit Size	Cable Range	St. Package Qty.	Std. Package Wt. (lbs.)	A Body Bore	B	C	D	E Body Hex	F Nut Dia.	G
RSR-9103	1/2"	.125-.188	15	1	0.45	0.44	1.51	2.00	0.98	0.96	1.31
RSR-9104	1/2"	.188-.250	15	1	0.45	0.44	1.51	2.00	0.98	0.96	1.31
RSR-9105	1/2"	.250-.312	15	1	0.45	0.44	1.51	2.00	0.98	0.96	1.31
RSR-9106	1/2"	.312-.375	15	1	0.45	0.44	1.51	2.00	0.98	0.96	1.31
RSR-9107	1/2"	.375-.438	15	1	0.45	0.44	1.51	2.00	0.98	0.96	1.31
RSR-9108	1/2"	.438-.500	15	1	0.45	0.44	1.51	2.00	0.98	0.96	1.31
RSR-9109	1/2"	.500-.562	15	1	0.45	0.44	1.51	2.00	0.98	0.96	1.31
RSR-9110	1/2"	.562-.625	15	1	0.45	0.44	1.51	2.00	0.98	0.96	1.31
RSR-9208	3/4"	.438-.500	2	1	0.76	0.63	2.25	2.88	1.25	1.55	1.99
RSR-9209	3/4"	.438-.562	5	2	0.76	0.63	2.25	2.88	1.25	1.55	1.99
RSR-9210	3/4"	.500-.625	5	2	0.76	0.63	2.25	2.88	1.25	1.55	1.99
RSR-9211	3/4"	.562-.688	5	2	0.76	0.63	2.25	2.88	1.25	1.55	1.99
RSR-9212	3/4"	.625-.750	5	1	0.76	0.63	2.25	2.88	1.25	1.55	1.99
RSR-9213	3/4"	.688-.812	5	1	0.76	0.63	2.25	2.88	1.25	1.55	1.99
RSR-9309	1"	.438-.562	5	2	0.99	0.63	2.41	3.13	1.44	1.74	2.00
RSR-9310	1"	.500-.625	5	2	0.99	0.63	2.41	3.13	1.44	1.74	2.00
RSR-9311	1"	.562-.688	5	2	0.99	0.63	2.41	3.13	1.44	1.74	2.00
RSR-9312	1"	.625-.750	5	2	0.99	0.63	2.41	3.13	1.44	1.74	2.00
RSR-9313	1"	.688-.812	5	2	0.99	0.63	2.41	3.13	1.44	1.74	2.00
RSR-9314	1"	.750-.875	5	2	0.99	0.63	2.41	3.13	1.44	1.74	2.00
RSR-9315	1"	.812-.938	5	2	0.99	0.63	2.41	3.13	1.44	1.74	2.00
RSR-9316	1"	.875-1.000	2	1	0.99	0.63	2.41	3.13	1.44	1.74	2.00

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**REMKE**

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### 90° Body, External Cord Thread

RSR Aluminum Series Grips are used in conduit hubs or knock-outs at the point where the electrical cable is to be terminated.

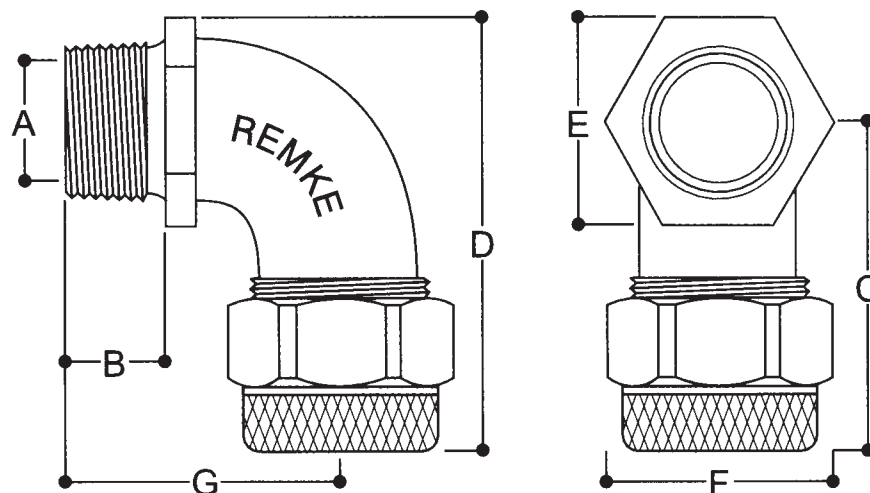
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The seal is accomplished when the tapered rubber bushing (Neoprene) is driven into a tapered seat in the grip body by tightening the nut. An anti-friction washer is supplied between the nut and bushing for ease in compression.

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## Cord Grips — Aluminum RSR Series 90° with Wire Mesh



Item Number	Conduit Size	Cable Range	Std. Package Qty.	Std. Package Wt. (lbs.)	A Body Bore	B	C	D	E Body Hex	F Nut Dia.	G
RSR-9104-E	1/2"	.188-.250	1	1	0.58	0.56	1.88	2.39	1.03	1.26	1.50
RSR-9105-E	1/2"	.250-.312	1	1	0.58	0.56	1.88	2.39	1.03	1.26	1.50
RSR-9106-E	1/2"	.312-.375	1	1	0.58	0.56	1.88	2.39	1.03	1.26	1.50
RSR-9107-E	1/2"	.375-.438	1	1	0.58	0.56	1.88	2.39	1.03	1.26	1.50
RSR-9108-E	1/2"	.438-.500	1	1	0.58	0.56	1.88	2.39	1.03	1.26	1.50
RSR-9109-E	1/2"	.500-.562	1	1	0.58	0.56	1.88	2.39	1.03	1.26	1.50
RSR-9110-E	1/2"	.562-.625	1	1	0.58	0.56	1.88	2.39	1.03	1.26	1.50
RSR-9208-E	3/4"	.438-.500	2	1	0.76	0.63	2.25	2.88	1.25	1.55	1.99
RSR-9209-E	3/4"	.438-.562	1	1	0.76	0.63	2.25	2.88	1.25	1.55	1.99
RSR-9210-E	3/4"	.500-.625	1	1	0.76	0.63	2.25	2.88	1.25	1.55	1.99
RSR-9211-E	3/4"	.562-.688	1	1	0.76	0.63	2.25	2.88	1.25	1.55	1.99
RSR-9212-E	3/4"	.625-.750	1	1	0.76	0.63	2.25	2.88	1.25	1.55	1.99
RSR-9213-E	3/4"	.688-.812	1	1	0.76	0.63	2.25	2.88	1.25	1.55	1.99
RSR-9309-E	1"	.438-.562	1	1	0.99	0.63	2.41	3.13	1.44	1.74	2.00
RSR-9310-E	1"	.500-.625	1	1	0.99	0.63	2.41	3.13	1.44	1.74	2.00
RSR-9311-E	1"	.562-.688	1	1	0.99	0.63	2.41	3.13	1.44	1.74	2.00
RSR-9312-E	1"	.625-.750	1	1	0.99	0.63	2.41	3.13	1.44	1.74	2.00
RSR-9313-E	1"	.688-.812	2	1	0.99	0.63	2.41	3.13	1.44	1.74	2.00
RSR-9314-E	1"	.750-.875	1	1	0.99	0.63	2.41	3.13	1.44	1.74	2.00
RSR-9315-E	1"	.812-.938	1	1	0.99	0.63	2.41	3.13	1.44	1.74	2.00
RSR-9316-E	1"	.875-1.000	2	1	0.99	0.63	2.41	3.13	1.44	1.74	2.00
RSR-9416-E	1 1/4"	.875-1.000	1	1	1.28	0.69	3.19	4.41	2.13	2.47	2.69
RSR-9418-E	1 1/4"	1.000-1.125	1	1	1.28	0.69	3.19	4.41	2.13	2.47	2.69
RSR-9420-E	1 1/4"	1.125-1.250	1	1	1.28	0.69	3.19	4.41	2.13	2.47	2.69
RSR-9422-E	1 1/4"	1.250-1.375	1	1	1.28	0.69	3.19	4.41	2.13	2.47	2.69

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**REMKE**

### Certification and Compliances

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- National Electrical Code Articles 400-10 and 400-14
- NEMA Standards FBI-1983
- Hazardous Locations: NEC Sec. 501-4(b)502-4(a)(2), and 503-3(a). For Class I, Div.2; Class II, Div. 1 and 2; and Class III, Div. 1 and 2.

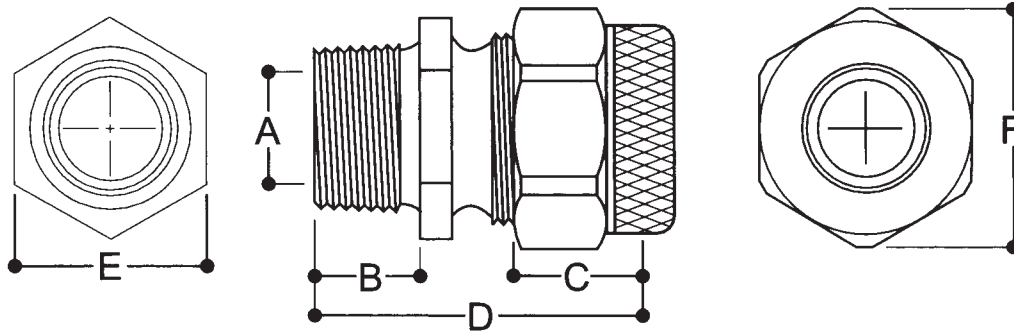
### Straight Body, External Conduit Thread

The RSSS Stainless Steel Series is similar to the RSR Aluminum Series except for the material of the body and compression nut, which is stainless steel. Also the nut is hexagonal for part of its length and round with a knurl for the remainder.

As the surfaces of the body and nut are the only exposed metal parts, by using the RSSS Series, the maximum in corrosion resistance is obtained. RSSS includes complete stainless steel design.



## Cord Grips — Stainless Steel RSSS Series



Item Number	Conduit Size	Cable Range	Std. Package Qty.	Std. Package Wt. (lbs.)	A Body Bore	B	C	D	E Body Hex	F Nut Dia.
RSSS-103	1/2"	.125-.188	25	5	0.62	0.56	0.69	1.81	1.00	1.12
RSSS-104	1/2"	.188-.250	25	5	0.62	0.56	0.69	1.81	1.00	1.12
RSSS-105	1/2"	.250-.312	25	5	0.62	0.56	0.69	1.81	1.00	1.12
RSSS-106	1/2"	.312-.375	25	5	0.62	0.56	0.69	1.81	1.00	1.12
RSSS-107	1/2"	.375-.438	25	5	0.62	0.56	0.69	1.81	1.00	1.12
RSSS-108	1/2"	.438-.500	25	5	0.62	0.56	0.69	1.81	1.00	1.12
RSSS-109	1/2"	.500-.562	25	5	0.62	0.56	0.69	1.81	1.00	1.12
RSSS-110	1/2"	.562-.625	25	5	0.62	0.56	0.69	1.81	1.00	1.12
RSSS-208	3/4"	.438-.500	20	7	0.81	0.56	0.85	2.05	1.25	1.37
RSSS-209	3/4"	.438-.562	20	7	0.81	0.56	0.85	2.05	1.25	1.37
RSSS-210	3/4"	.500-.625	20	7	0.81	0.56	0.85	2.05	1.25	1.37
RSSS-211	3/4"	.562-.688	20	7	0.81	0.56	0.85	2.05	1.25	1.37
RSSS-212	3/4"	.625-.750	20	7	0.81	0.56	0.85	2.05	1.25	1.37
RSSS-213	3/4"	.688-.812	20	7	0.81	0.56	0.85	2.05	1.25	1.37





## Cord Grips — Stainless Steel RSSS Series with Wire Mesh

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**REMKE**

### Certification and Compliances

- UL Standard: 514 File #E53599
- CSA Standard C22.2 #18 File #28985
- National Electrical Code Articles 400-10 and 400-14
- NEMA Standards FBI-1983
- Hazardous Locations: NEC Sec. 501-4(b) 502-4(a)(2), and 503-3(a). For Class I, Div. 2; Class II, Div. 1 and 2; and Class III, Div. 1 and 2.

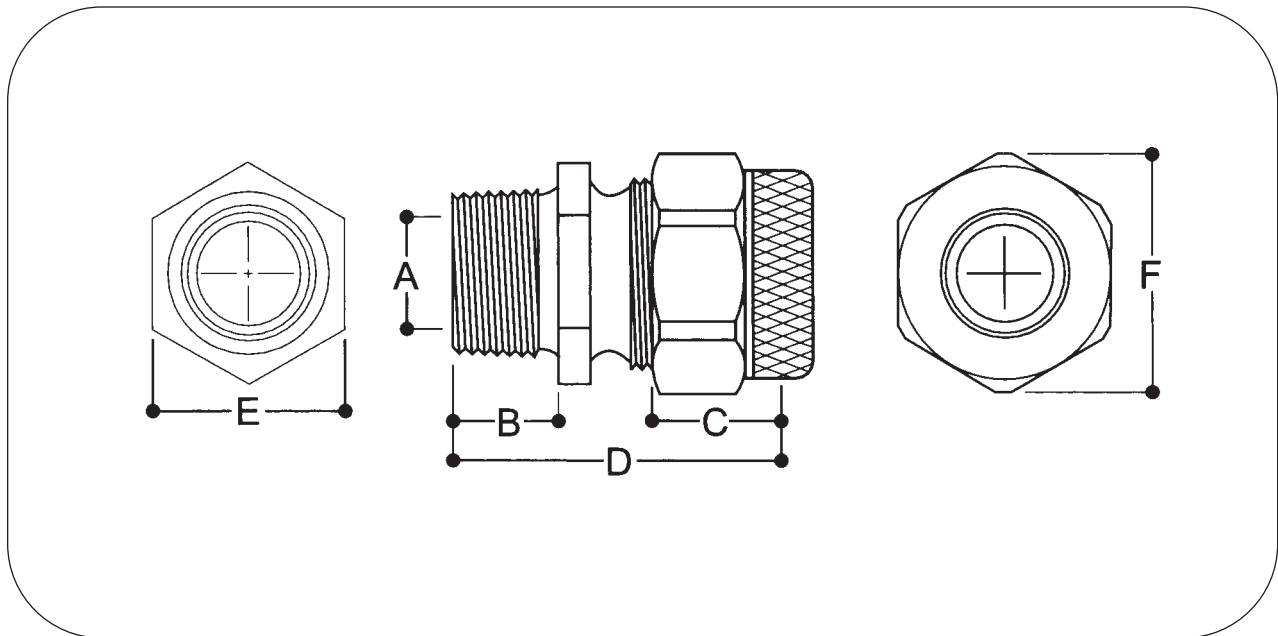
### Straight Body, External Conduit Thread

The RSSS Stainless Steel Series is similar to the RSR Aluminum Series except for the material of the body and compression nut, which is stainless steel. Also the nut is hexagonal for part of its length and round with a knurl for the remainder.

As the surfaces of the body and nut are the only exposed metal parts, by using the RSSS Series, the maximum in corrosion resistance is obtained. RSSS includes complete stainless steel design.



## Cord Grips — Stainless Steel RSSS Series with Wire Mesh



Item Number	Conduit Size	Cable Range	Std. Package Qty.	Std. Package Wt. (lbs.)	A Body Bore	B	C	D	E Body Hex	F Nut Dia.
RSSS-104-E	1/2"	.188-.250	1	1	0.62	0.56	0.69	1.81	1.00	1.12
RSSS-105-E	1/2"	.250-.312	1	1	0.62	0.56	0.69	1.81	1.00	1.12
RSSS-106-E	1/2"	.312-.375	1	1	0.62	0.56	0.69	1.81	1.00	1.12
RSSS-107-E	1/2"	.375-.438	1	1	0.62	0.56	0.69	1.81	1.00	1.12
RSSS-108-E	1/2"	.438-.500	1	1	0.62	0.56	0.69	1.81	1.00	1.12
RSSS-109-E	1/2"	.500-.562	1	1	0.62	0.56	0.69	1.81	1.00	1.12
RSSS-110-E	1/2"	.562-.625	1	1	0.62	0.56	0.69	1.81	1.00	1.12
RSSS-208-E	3/4"	.438-.500	1	1	0.81	0.56	0.85	2.05	1.25	1.37
RSSS-209-E	3/4"	.438-.562	1	1	0.81	0.56	0.85	2.05	1.25	1.37
RSSS-210-E	3/4"	.500-.625	1	1	0.81	0.56	0.85	2.05	1.25	1.37
RSSS-211-E	3/4"	.562-.688	1	1	0.81	0.56	0.85	2.05	1.25	1.37
RSSS-212-E	3/4"	.625-.750	1	1	0.81	0.56	0.85	2.05	1.25	1.37
RSSS-213-E	3/4"	.688-.812	1	1	0.81	0.56	0.85	2.05	1.25	1.37



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**REMKE**

### Certification and Compliances

- UL Standard: 514 File #E53599
- CSA Standard C22.2 #18 File #28985
- National Electrical Code Articles 400-10 and 400-14
- NEMA Standards FBI-1983
- Hazardous Locations: NEC Sec. 501-4(b) 502-4(a)(2), and 503-3(a). For Class I, Div. 2; Class II, Div. 1 and 2; and Class III, Div. 1 and 2.

### Straight Body, External Conduit Thread

RSP Series Non-Metallic Cord Grips are used in conduit hubs or knock-outs at the point where the electrical cable is to be terminated.

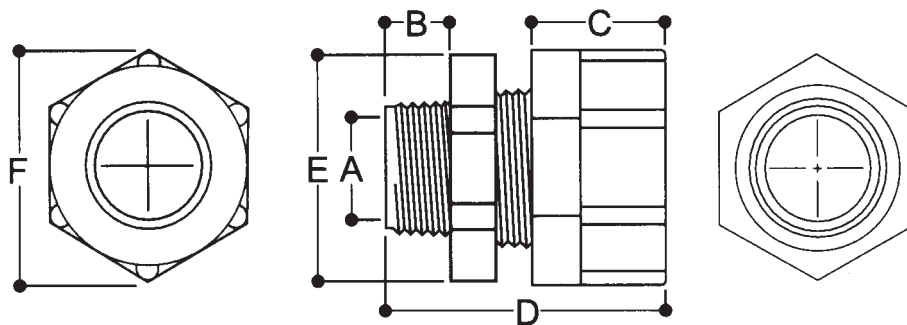
They are used in indoor as well as outdoor applications to prevent cable pullout, control arc of bend, and where cables are subjected to moisture or wash down environments.

These grips are extremely corrosion resistant, and will provide an environmental seal against dirt, moisture, coolants, fumes, etc.

The bodies and nuts on these grips are constructed of a light grey durable nylon material. The compression bushing is made of a high quality, oil resistant rubber (Neoprene), along with an anti-friction washer made of nylon.



## Cord Grips — Non-Metallic RSP Series



Item Number	Conduit Size	Cable Range	Std. Package Qty.	Std. Package Wt. (lbs.)	A Body Bore	B	C	D	E Body Hex	F Nut Dia.
RSP-103	1/2"	.125-.188	25	2	0.57	0.50	0.88	2.01	1.12	1.25
RSP-104	1/2"	.188-.250	25	2	0.57	0.50	0.88	2.01	1.12	1.25
RSP-105	1/2"	.250-.312	25	2	0.57	0.50	0.88	2.01	1.12	1.25
RSP-106	1/2"	.312-.375	25	2	0.57	0.50	0.88	2.01	1.12	1.25
RSP-107	1/2"	.375-.438	25	2	0.57	0.50	0.88	2.01	1.12	1.25
RSP-108	1/2"	.438-.500	25	2	0.57	0.50	0.88	2.01	1.12	1.25
RSP-109	1/2"	.500-.562	25	2	0.57	0.50	0.88	2.01	1.12	1.25
RSP-110	1/2"	.562-.625	25	2	0.57	0.50	0.88	2.01	1.12	1.25
RSP-208	3/4"	.438-.500	20	2	0.76	0.56	0.88	2.10	1.38	1.50
RSP-209	3/4"	.438-.562	20	2	0.76	0.56	0.88	2.10	1.38	1.50
RSP-210	3/4"	.500-.625	20	3	0.76	0.56	0.88	2.10	1.38	1.50
RSP-211	3/4"	.562-.688	20	3	0.76	0.56	0.88	2.10	1.38	1.50
RSP-212	3/4"	.625-.750	20	3	0.76	0.56	0.88	2.10	1.38	1.50
RSP-213	3/4"	.688-.812	20	3	0.76	0.56	0.88	2.10	1.38	1.50

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## Cord Grips — Non-Metallic RSP Series with Wire Mesh

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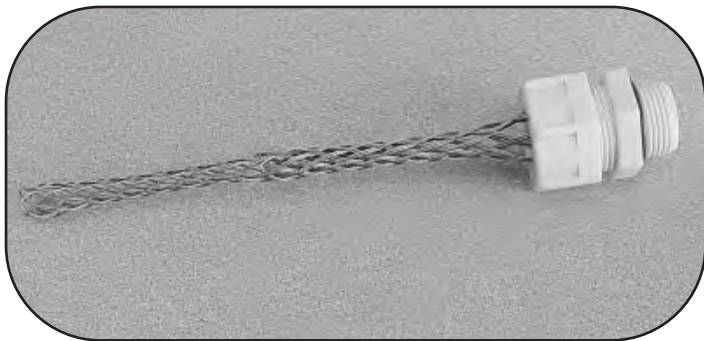
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**REMKE**

### Certification and Compliances

- UL Standard: 514 File #E53599
- CSA Standard C22.2 #18 File #28985
- National Electrical Code Articles 400-10 and 400-14
- NEMA Standards FBI-1983
- Hazardous Locations: NEC Sec. 501-4(b) 502-4(a)(2), and 503-3(a). For Class I, Div. 2; Class II, Div. 1 and 2; and Class III, Div. 1 and 2.

### Straight Body, External Conduit Thread

RSP Series Non-Metallic Cord Grips are used in conduit hubs or knock-outs at the point where the electrical cable is to be terminated.

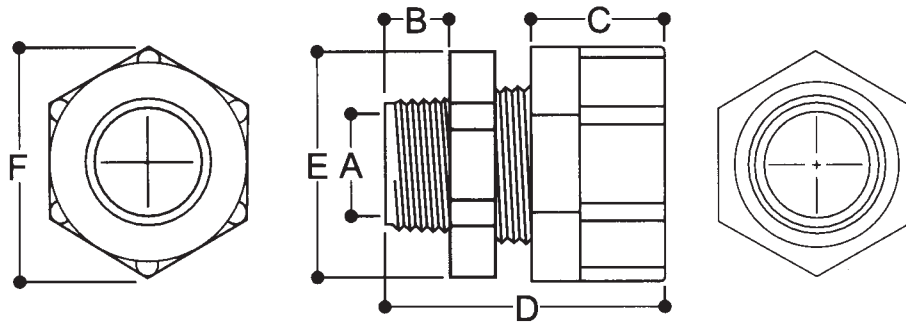
They are used in indoor as well as outdoor applications to prevent cable pullout, control arc of bend, and where cables are subjected to moisture or wash down environments.

These grips are extremely corrosion resistant, and will provide an environmental seal against dirt, moisture, coolants, fumes, etc.

The bodies and nuts on these grips are constructed of a light grey durable nylon material. The compression bushing is made of a high quality, oil resistant rubber (Neoprene), along with an anti-friction washer made of nylon.



## Cord Grips — Non-Metallic RSP Series with Wire Mesh



Item Number	Conduit Size	Cable Range	Std. Package Qty.	Std. Package Wt. (lbs.)	A Body Bore	B	C	D	E Body Hex	F Nut Dia.
RSP-103-E	1/2"	.125-.188	10	2	0.57	0.50	0.88	2.01	1.12	1.25
RSP-104-E	1/2"	.188-.250	10	2	0.57	0.50	0.88	2.01	1.12	1.25
RSP-105-E	1/2"	.250-.312	10	2	0.57	0.50	0.88	2.01	1.12	1.25
RSP-106-E	1/2"	.312-.375	10	2	0.57	0.50	0.88	2.01	1.12	1.25
RSP-107-E	1/2"	.375-.438	10	2	0.57	0.50	0.88	2.01	1.12	1.25
RSP-108-E	1/2"	.438-.500	10	2	0.57	0.50	0.88	2.01	1.12	1.25
RSP-109-E	1/2"	.500-.562	10	2	0.57	0.50	0.88	2.01	1.12	1.25
RSP-110-E	1/2"	.562-.625	10	2	0.57	0.50	0.88	2.01	1.12	1.25
RSP-208-E	3/4"	.438-.500	10	1	0.76	0.56	0.88	2.10	1.38	1.50
RSP-209-E	3/4"	.438-.562	10	1	0.76	0.56	0.88	2.10	1.38	1.50
RSP-210-E	3/4"	.500-.625	10	1	0.76	0.56	0.88	2.10	1.38	1.50
RSP-211-E	3/4"	.562-.688	10	1	0.76	0.56	0.88	2.10	1.38	1.50
RSP-212-E	3/4"	.625-.750	10	1	0.76	0.56	0.88	2.10	1.38	1.50
RSP-213-E	3/4"	.688-.812	10	1	0.76	0.56	0.88	2.10	1.38	1.50



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**REMKE**

### Certification and Compliances

- UL Standard: 514 File #E53599
- CSA Standard C22.2 #18 File #28985
- National Electrical Code Articles 400-10 and 400-14
- NEMA Standards FBI-1983
- Hazardous Locations: NEC Sec. 501-4(b) 502-4(a)(2), and 503-3(a). For Class I, Div. 2; Class II, Div. 1 and 2; and Class III, Div. 1 and 2.

### 90° Body, External Conduit Thread

RSP Series Non-Metallic Cord Grips are used in conduit hubs or knock-outs at the point where the electrical cable is to be terminated.

They are used in indoor as well as outdoor applications to prevent cable pullout, control arc of bend, and where cables are subjected to moisture or wash down environments.

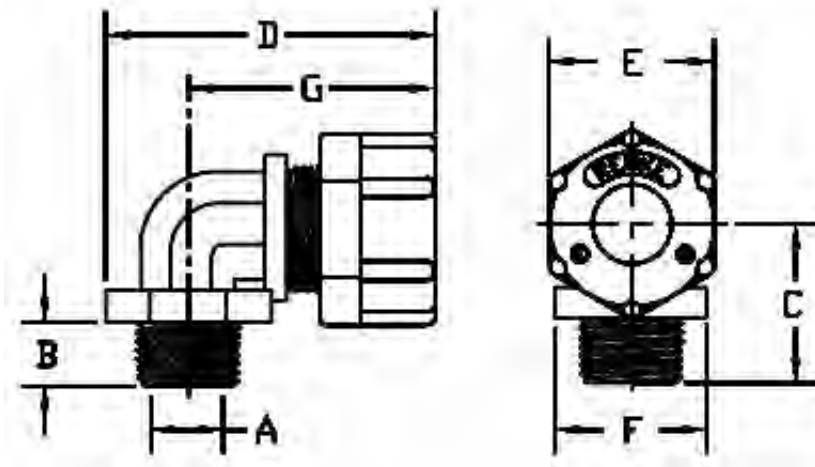
These grips are extremely corrosion resistant, and will provide an environmental seal against dirt, moisture, coolants, fumes, etc.

The bodies and nuts on these grips are constructed of a light grey durable nylon material. The compression bushing is made of a high quality, oil resistant rubber (Neoprene), along with an anti-friction washer made of nylon.





## Cord Grips — Non-Metallic RSP Series 90°



Item Number	Conduit Size	Cable Range	Std. Package Qty.	Std. Package Wt. (lbs.)	A Body Bore	B	C	D	E Body Hex	F Nut Dia.	G
RSP-9103	1/2"	.125-.188	15	2	0.57	0.50	0.88	2.01	1.12	1.25	1.98
RSP-9104	1/2"	.188-.250	15	2	0.57	0.50	0.88	2.01	1.12	1.25	1.98
RSP-9105	1/2"	.250-.312	15	2	0.57	0.50	0.88	2.01	1.12	1.25	1.98
RSP-9106	1/2"	.312-.375	15	2	0.57	0.50	0.88	2.01	1.12	1.25	1.98
RSP-9107	1/2"	.375-.438	15	2	0.57	0.50	0.88	2.01	1.12	1.25	1.98
RSP-9108	1/2"	.438-.500	15	2	0.57	0.50	0.88	2.01	1.12	1.25	1.98
RSP-9109	1/2"	.500-.562	15	2	0.57	0.50	0.88	2.01	1.12	1.25	1.98
RSP-9110	1/2"	.562-.625	15	2	0.57	0.50	0.88	2.01	1.12	1.25	1.98
RSP-9209	3/4"	.438-.562	5	1	0.76	0.56	0.88	2.10	1.38	1.50	2.21
RSP-9210	3/4"	.500-.625	5	1	0.76	0.56	0.88	2.10	1.38	1.50	2.21
RSP-9211	3/4"	.562-.688	5	1	0.76	0.56	0.88	2.10	1.38	1.50	2.21
RSP-9212	3/4"	.625-.750	5	1	0.76	0.56	0.88	2.10	1.38	1.50	2.21
RSP-9213	3/4"	.688-.812	5	1	0.76	0.56	0.88	2.10	1.38	1.50	2.21



## Cord Grips — Non-Metallic RSP Series 90° with Wire Mesh

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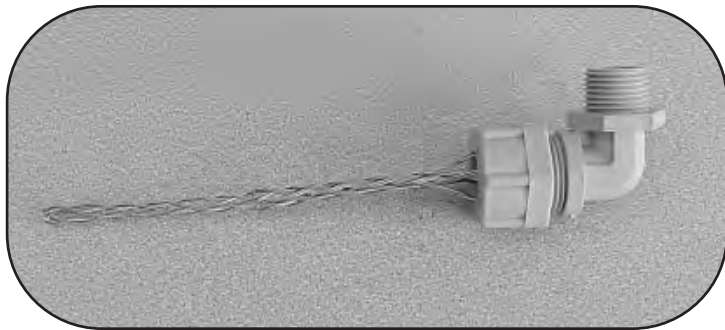
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### Certification and Compliances

- UL Standard: 514 File #E53599
- CSA Standard C22.2 #18 File #28985
- National Electrical Code Articles 400-10 and 400-14
- NEMA Standards FBI-1983
- Hazardous Locations: NEC Sec. 501-4(b)502-4(a)(2), and 503-3(a). For Class I, Div.2; Class II, Div. 1 and 2; and Class III, Div. 1 and 2.

### 90 Degree Body, External Conduit Thread

RSP Series Non-Metallic Cord Grips are used in conduit hubs or knock-outs at the point where the electrical cable is to be terminated.

They are used in indoor as well as outdoor applications to prevent cable pullout, control arc of bend, and where cables are subjected to moisture or wash down environments.

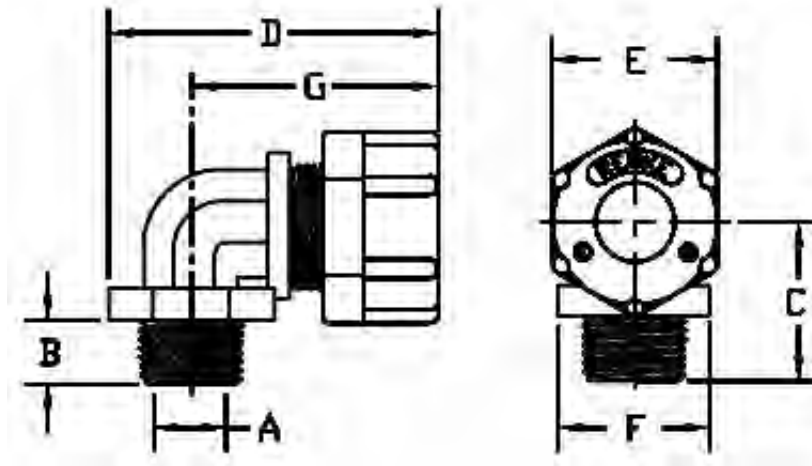
These grips are extremely corrosion resistant, and will provide an environmental seal against dirt, moisture, coolants, fumes, etc.

The bodies and nuts on these grips are constructed of a light grey durable nylon material. The compression bushing is made of a high quality, oil resistant rubber (Neoprene), along with an anti-friction washer made of nylon.

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## Cord Grips — Non-Metallic RSP Series 90° with Wire Mesh



Item Number	Conduit Size	Cable Range	Std. Package Qty.	Std. Package Wt. (lbs.)	A Body Bore	B	C	D	E Body Hex	F Nut Dia.	G
RSP-9103-E	1/2"	.125-.188	4	1	0.57	0.50	0.88	2.01	1.12	1.25	1.98
RSP-9104-E	1/2"	.188-.250	4	1	0.57	0.50	0.88	2.01	1.12	1.25	1.98
RSP-9105-E	1/2"	.250-.312	4	1	0.57	0.50	0.88	2.01	1.12	1.25	1.98
RSP-9106-E	1/2"	.312-.375	4	1	0.57	0.50	0.88	2.01	1.12	1.25	1.98
RSP-9107-E	1/2"	.375-.438	4	1	0.57	0.50	0.88	2.01	1.12	1.25	1.98
RSP-9108-E	1/2"	.438-.500	4	1	0.57	0.50	0.88	2.01	1.12	1.25	1.98
RSP-9109-E	1/2"	.500-.562	4	1	0.57	0.50	0.88	2.01	1.12	1.25	1.98
RSP-9110-E	1/2"	.562-.625	4	1	0.57	0.50	0.88	2.01	1.12	1.25	1.98
RSP-9209-E	3/4"	.438-.562	4	1	0.76	0.56	0.88	2.10	1.38	1.50	2.21
RSP-9210-E	3/4"	.500-.625	4	1	0.76	0.56	0.88	2.10	1.38	1.50	2.21
RSP-9211-E	3/4"	.562-.688	4	1	0.76	0.56	0.88	2.10	1.38	1.50	2.21
RSP-9212-E	3/4"	.625-.750	4	1	0.76	0.56	0.88	2.10	1.38	1.50	2.21
RSP-9213-E	3/4"	.688-.812	4	1	0.76	0.56	0.88	2.10	1.38	1.50	2.21



## Watertight Conduit Hubs — Zinc Die Cast WH Series

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### Certification and Compliances

Suitable for the following locations:

- Class I, Div.2 Class II, Div.1&2 Class III, Div.1&2  
Per NEC 501-4(B), 502-4(A), 503-3(A)
- UL File: E52002 (N) E157356(N)

### WH Series Watertight Conduit Hub

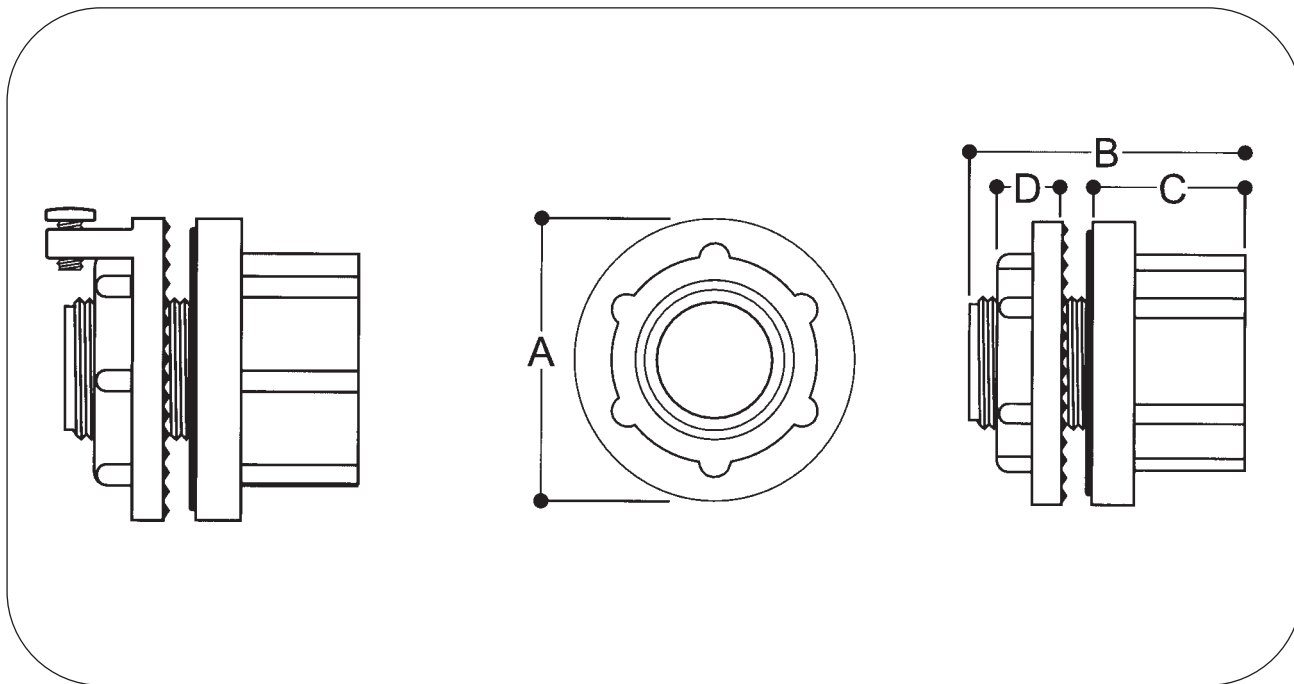
WH Series Hubs are suitable for use with rigid service entrance conduit.

Remke's unique angled serrations provide a sure watertight seal even with a rough or oversized knock-out, while providing you a larger and tighter surface contact.

Simple two-piece construction. Positive grounding and watertight sealing action. Sure seal embedded "O" Ring. Protective insulated throats included.



# Watertight Conduit Hubs — Zinc Die Cast WH Series



Item Number	Conduit Size	Std. Package Qty.	Std. Package Wt. (lbs.)	A Body Bore	B	Mfg. Hole (Minimum)
WH-1	1/2"	25	5	1.54	1.31	0.84
WH-2	3/4"	25	7	1.73	1.37	1.05
WH-3	1"	10	5	2.04	1.59	1.31
WH-4	1 1/4"	10	6	2.42	1.59	1.66
WH-5	1 1/2"	5	4	2.79	1.59	1.90
WH-6	2"	5	5	3.30	1.59	2.37
WH-7	2 1/2"	2	4	3.70	2.47	2.88
WH-8	3"	2	5	4.39	2.47	3.50
WH-9	3 1/2"	1	3	4.81	2.69	4.11
WH-10	4"	1	3	5.38	2.69	4.63

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# Watertight Conduit Hubs — Grounded WH Series

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# REMKE

## Certification and Compliances

Suitable for the following locations:

- Class I, Div.2 Class II, Div.1&2 Class III, Div.1&2  
Per NEC 501-4(B), 502-4(A), 503-3(A)
- UL File: E52002 (N) E157356(N)

## WH Series Watertight Conduit Hub

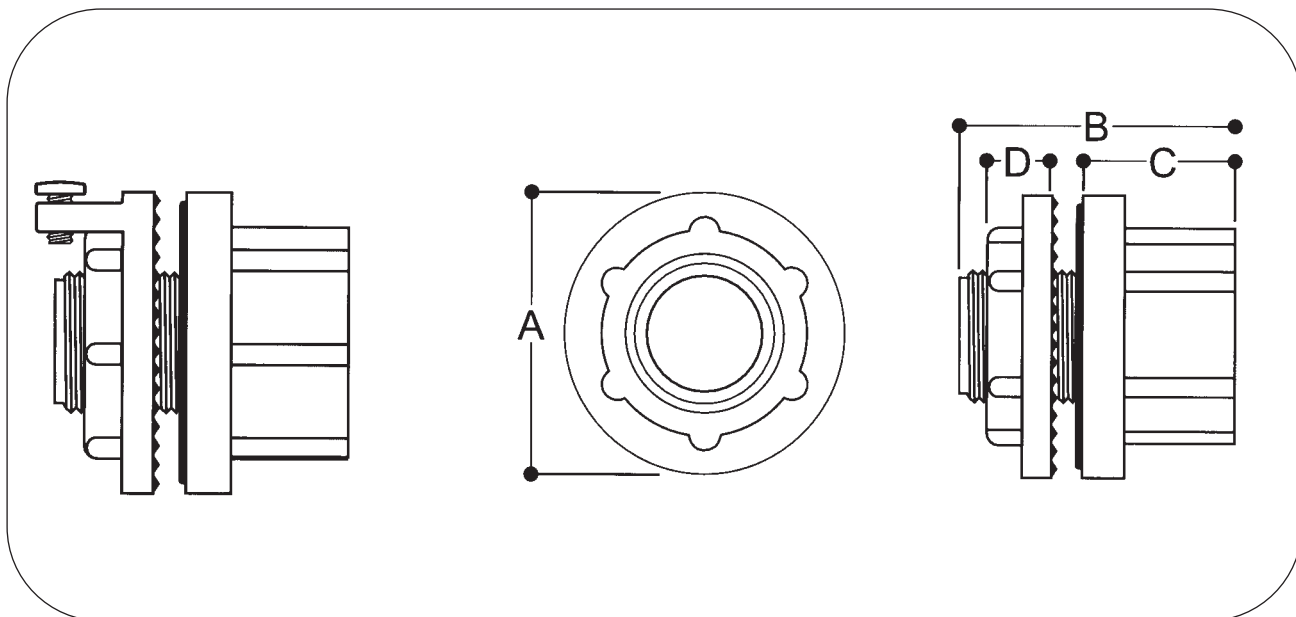
WH Series Hubs are suitable for use with rigid service entrance conduit.

Remke's unique angled serrations provide a sure watertight seal even with a rough or oversized knock-out, while providing you a larger and tighter surface contact.

Simple two-piece construction. Positive grounding and watertight sealing action. Sure seal embedded "O" Ring. Protective insulated throats included.



## Watertight Conduit Hubs — Grounded WH Series



Item Number	Conduit Size	Std. Package Qty.	Std. Package Wt. (lbs.)	A Body Bore	B	Mfg. Hole (Minimum)
WH-1-G	1/2"	25	5	1.54	1.31	0.84
WH-2-G	3/4"	25	7	1.73	1.37	1.05
WH-3-G	1"	10	5	2.04	1.59	1.31
WH-4-G	1 1/4"	10	6	2.42	1.59	1.66
WH-5-G	1 1/2"	10	7	2.79	1.59	1.90
WH-6-G	2"	10	9	3.30	1.59	2.37
WH-7-G	2 1/2"	10	17	3.70	2.47	2.88
WH-8-G	3"	8	18	4.39	2.47	3.50

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## Advantage Series — Air Cooled Panel-Mounted Air Conditioners

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### Description

The ADVANTAGE Series boasts a stylish appearance with rounded edges, no visible hardware and a textured baked powder finish to blend easily with contemporary enclosure designs. These air conditioners are designed specifically for cooling electronic enclosures and can be used for both indoor and outdoor applications. Servicing the unit has been made easier by incorporating a “knock-down” sheet metal design which provides quick access to internal components. These units are constructed of heavy duty galvanized steel with baked-on powder paint and include an environmentally friendly refrigerant. Three sizes are available with heights of 17”, 36” and 47”. Capacities range from 1,000 to 12,000 BTU/hr. Units maintain a NEMA 12 and NEMA 3R interface with the enclosure and are easily installed with the unique mounting and assembly bracket provided.

### Standard Features

**CLOSED-LOOP COOLING:** The enclosure interior airflow system is isolated from the ambient airflow system. Ambient air can not invade the cool, dehumidified sensitive component compartment.

**BALL-BEARING MOTORS:** All fan motors are UL/CSA Recognized and include automatic-reset thermal overload protection and double-sealed or double-shielded precision

ball bearings. special permanent lubricants in the tube axial fans perform over a broad temperature range: -20 °F [-28.9 °C ] to 250 °F [121.1 °C ].

**TEXTURED BAKED POWDER FINISH:** Durable, baked-on textured beige powder finish is standard.

**POWER:** Available in 115 VAC, 60 Hz

**REFRIGERANT:** CFC-free R134a Refrigerant is used in all Advantage Series air conditioners.

**DIGITAL TEMPERATURE DISPLAY**

**PERMANENT FILTERS:** Multi-layer grid of sturdy, corrugated aluminum in an aluminum frame. May be reused after washing off accumulations and spraying with A-16 recoating adhesive.

**CONDENSATE EVAPORATOR:** Built-in condensate evaporator eliminates need for draining condensate under normal operating conditions. May not be adequate in extremely high humidity with open or leaky enclosure. Overflow condensate drain fitting and hose are included.

**LOW AMBIENT KIT:** Maintains sufficient operating pressures when ambient temperatures drop below 50 °F [10 °C ]. Includes a compressor heater and pressure actuated condenser blower cycling control.

**LOW TEMPERATURE CONTROL:** Thermostatic Low Temperature Control prevents over-cooling and provides energy-efficient operation.

**EMI/RFI SUPPRESSOR:** EMI/RFI suppressor minimizes transient line spikes during on/off cycling.

**CRANKCASE COMPRESSOR HEATER:** 120V or 240V heater attached to the compressor crankcase to maintain appropriate temperatures during cold operating conditions.

**HEAD PRESSURE CONTROL SWITCH:** A control device to minimize compressor cycling and prevent evaporator coil icing.

**POWER CORD:** All models have six foot [1.8m ] SJT-type 3-wire power cords with appropriate plugs.

**INSULATION:** All cold components, lines and the evaporator compartment are insulated with high-performance insulation for maximum efficiency.

**GASKETING:** All units are fully gasketed for tight, leak proof installation. In compliance with the NEMA 3R Enclosure Rating(UL50)

**QUALITY ASSURANCE:** Refrigeration system components are kept sealed until charged with refrigerant; all brazed joints are thoroughly leak-tested; each unit is functionally tested before shipment.

**INSTALLATION:** Detailed Installation and Operator's Manual, with drawings, mounting plan and spare parts list is included with each unit.

**UL/cUL RECOGNIZED:** All Advantage models are UL/cUL recognized .



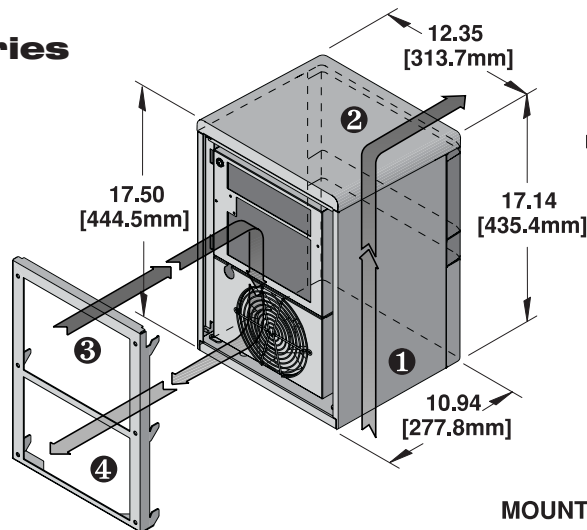
# Advantage Series — Air Cooled Panel-Mounted Air Conditioners

## Technical Data—Advantage Series

Item no.	Series	Dimensions in Inches			BTU/Hr.	Ambient Temp. Max./Min. Degrees F	Volts	Hz	Running Amps **	Shipping Weight (lbs.)
		H	W	D						
KA4C1RP17R	RP17	17 1/2	12 3/8	11	1000	125/0	115	60	7.0/7.5	83
KA4C2RP17R	RP17	17 1/2	12 3/8	11	2000	125/0	115	60	7.0/7.5	83
KA4C4RP36R	RP36	36 3/4	15 3/8	11	4000	125/0	115	60	19.5/20.0	162
KA4C6RP36R	RP36	36 3/4	15 3/8	11	6000	125/0	115	60	19.5/20.0	162
KA4C8RP47R	RP47	47 1/4	15 3/8	13 1/4	8000	125/0	115	60	12.2/12.7	195
KA4C12RP47R	RP47	47 1/4	15 3/8	13 1/4	12000	125/0	115	60	19.8/19.1	195

\*\* Rating shown is for operation at maximum ambient temperature.

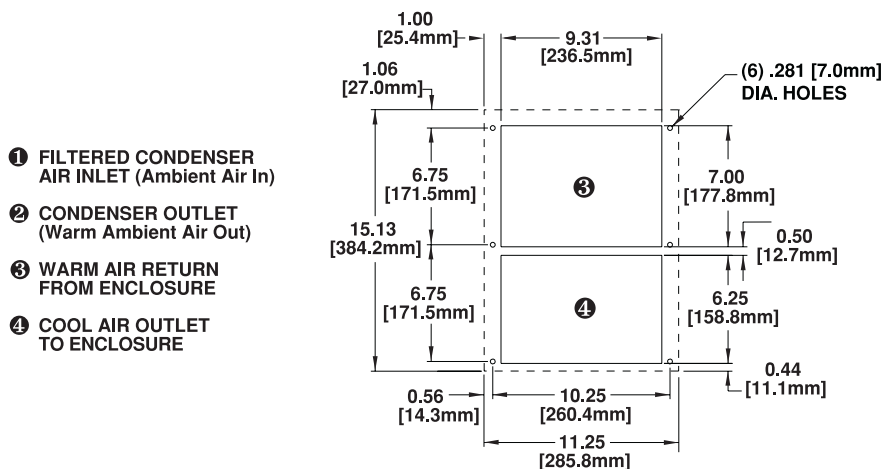
### RP17 Series



**NEMA**  
TYPE 3R  
MAINTAINED



### MOUNTING PLAN



Dimensions, inches [metric], are for reference only and are subject to change.



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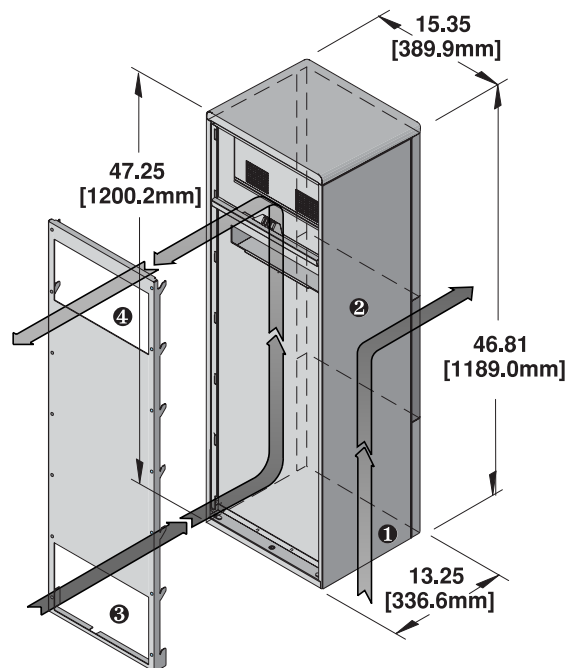
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# Advantage Series — Air Cooled Panel-Mounted Air Conditioners

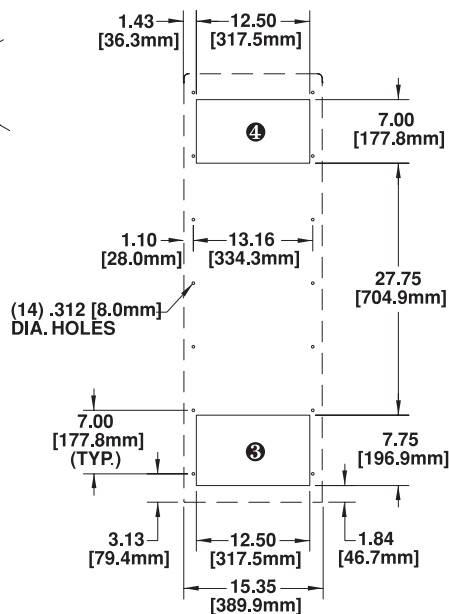
## RP47 Series



**NEMA**  
TYPE 3R  
MAINTAINED

**cUL** <sup>®</sup> **US**

### MOUNTING PLAN



- ❶ FILTERED CONDENSER AIR INLET (Ambient Air In)
- ❷ CONDENSER OUTLET (Warm Ambient Air Out)
- ❸ WARM AIR RETURN FROM ENCLOSURE
- ❹ COOL AIR OUTLET TO ENCLOSURE

Dimensions, inches [metric], are for reference only and are subject to change.

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# Integrity NEMA 4/4x — Air Cooled Panel-Mounted Air Conditioners

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Fiberglass Boxes

Industrial Pilot Devices

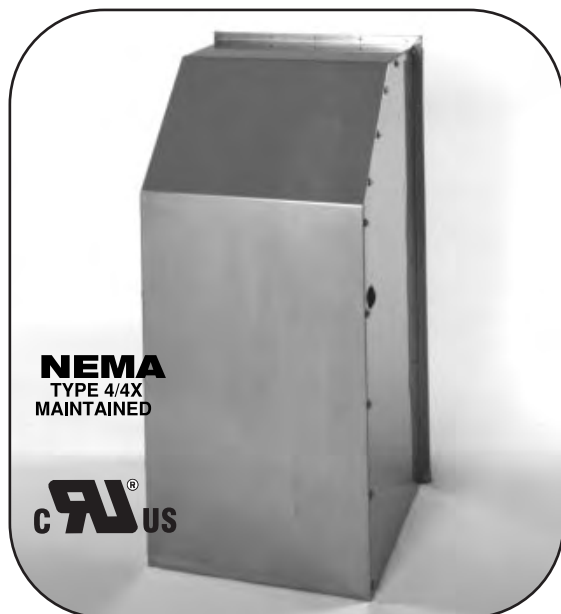
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## Description

The INTEGRITY Series is designed for NEMA 4 and 4X enclosure applications that require washdown or are subject to outdoor storm conditions. These exclusive, patented UL/cUL recognized panel-mounted units provide superior closed-loop cooling and also protect against the hazards specified for both indoor and outdoor NEMA 4 and 4X enclosures. Gasketed flanges on all four mounting edges provide a positive leak proof seal. These units are constructed of heavy duty 304-2B stainless steel and are available in 32" and 38" heights. Capacities range from 1,000 to 10,000 BTU/hr. Units maintain a NEMA 4/4X rating with the enclosure and are easily installed with the unique mounting and assembly bracket provided.

## Standard Features

**CLOSED-LOOP COOLING:** The enclosure interior airflow system is isolated from the ambient airflow system. Ambient air cannot invade the cool, dehumidified sensitive component compartment.

**BALL-BEARING MOTORS:** All blower motors are UL/CSA recognized and include automatic-reset thermal overload protection and double-sealed or double-shielded precision ball bearings. Special permanent lubricants perform over a broad temperature range: -20°F [-28.9°C] to 250°F [121.1°C].

**BLOWERS:** All centrifugal blowers are Kooltronic-designed and built to provide optimum airflow and pressure for each air conditioner design.

**POWER:** Available in 115 VAC, 60 Hz

**REFRIGERANT:** CFC-free R134a refrigerant is used on all Integrity NEMA 4/4X Series air conditioners.

**PERMANENT FILTERS:** Multi-layer grid of sturdy, corrugated aluminum in an aluminum frame. May be reused after washing off accumulations and spraying with A-16 recoating adhesive.

**CONDENSATE REMOVAL:** Condensate drain fitting and hose are included.

**LOW TEMPERATURE CONTROL:** Thermostatic Low Temperature Control prevents over-cooling and provides energy-efficient operation.

**EMI/RFI SUPPRESSOR:** EMI/RFI suppressor minimizes transient spikes during on/off cycling.

**POWER CORD:** All models have six foot [1.8m] SJT-type 3-wire power cords with appropriate plugs.

**INSULATION:** All cold components, lines and the evaporator compartment are insulated with high-performance insulation for maximum efficiency.

**GASKETING:** All units are fully gasketed for tight, leak proof installation, in compliance with the NEMA 4/4X enclosure rating (UL50).

**QUALITY ASSURANCE:** Refrigeration system components are kept sealed until charged with refrigerant; all brazed joints are thoroughly leak-tested and each unit is functionally tested before shipment.

**INSTALLATION:** Detailed Installation and Operator's Manual, with drawings, mounting plan and spare parts list is included with each unit.

**UL/cUL RECOGNIZED:** All Integrity NEMA 4/4X models are UL/cUL recognized.

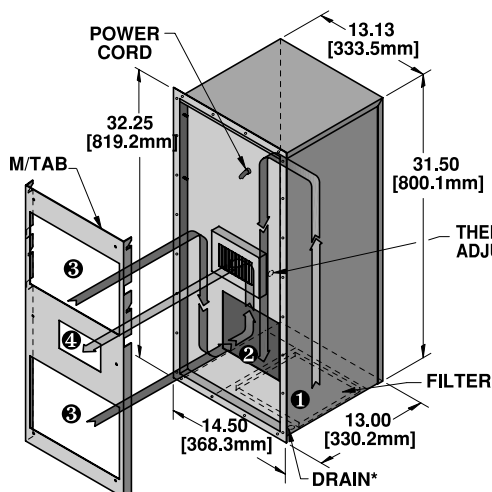


# Integrity NEMA 4/4x — Air Cooled Panel-Mounted Air Conditioners

## Integrity Series—Technical Data

Item no.	Height Series	Dimensions in Inches			Ambient Temp. Max./Min. BTU/Hr.	Degrees F	Volts	Hz	Shipping Running Amps **	Weight (lbs.)
		H	W	D						
KNA4C1P32R	32	32 1/4	13 1/8	13	1000	125/50	115	60	13.0/12.0	130
KNA4C2P32R	32	32 1/4	13 1/8	13	2000	125/50	115	60	13.0/12.0	130
KNA4C4P32R	32	32 1/4	13 1/8	13	4000	131/50	115	60	13.0/12.0	130
KNA4C6P38R	38	37 3/4	17 1/16	18	6000	131/50	115	60	20.00	210
K2NA4C8P38R	38	37 3/4	17 1/16	18	8000	131/50	230	60	10.9/12.5	210
K2NA4C10P38R	38	37 3/4	17 1/16	18	10000	131/50	230	60	10.9/12.5	210

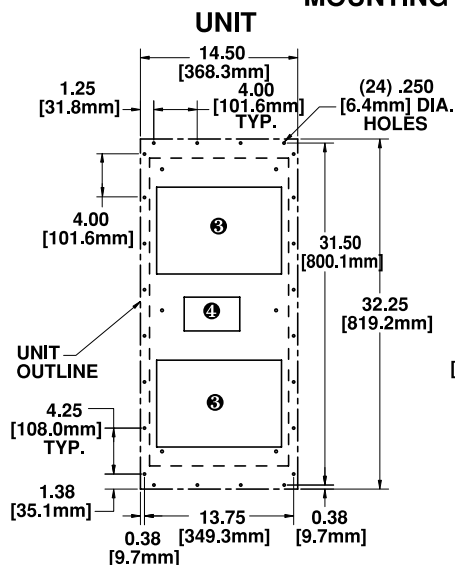
### Height Series 32



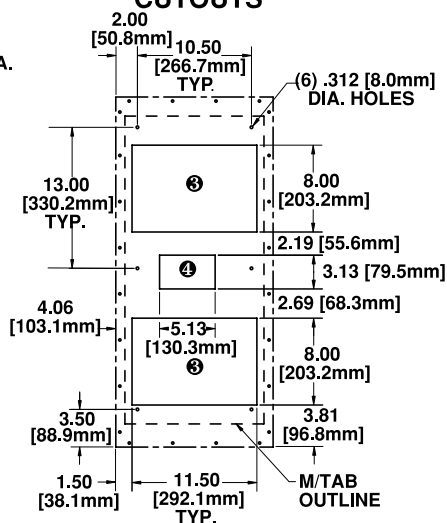
**NEMA**  
TYPE 4/4X  
MAINTAINED **CALUS**

- ① FILTERED CONDENSER AIR INLET (Ambient Air In)
- ② CONDENSER OUTLET (Warm Ambient Air Out)
- ③ WARM AIR RETURN FROM ENCLOSURE (Enclosure opening should be located as high as possible within this area, and equal or exceed size of cool air outlets.)
- ④ COOLAIR OUTLET TO ENCLOSURE

### MOUNTING PLAN



### M/TAB & CUTOUTS



UNIT MUST BE 12" [304.8mm] MINIMUM ABOVE FLOOR FOR FILTER ACCESS.

\* Other drain outlets are available - consult KOOLTRONIC.  
Dimensions, inches [metric], are for reference only and are subject to change.





# Integrity NEMA 4/4x — Air Cooled Panel-Mounted Air Conditioners

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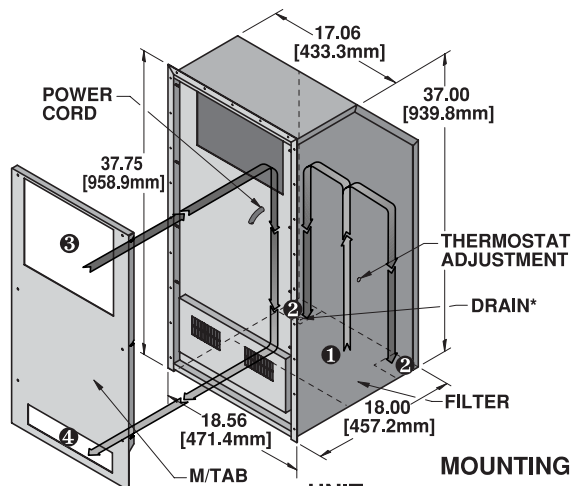
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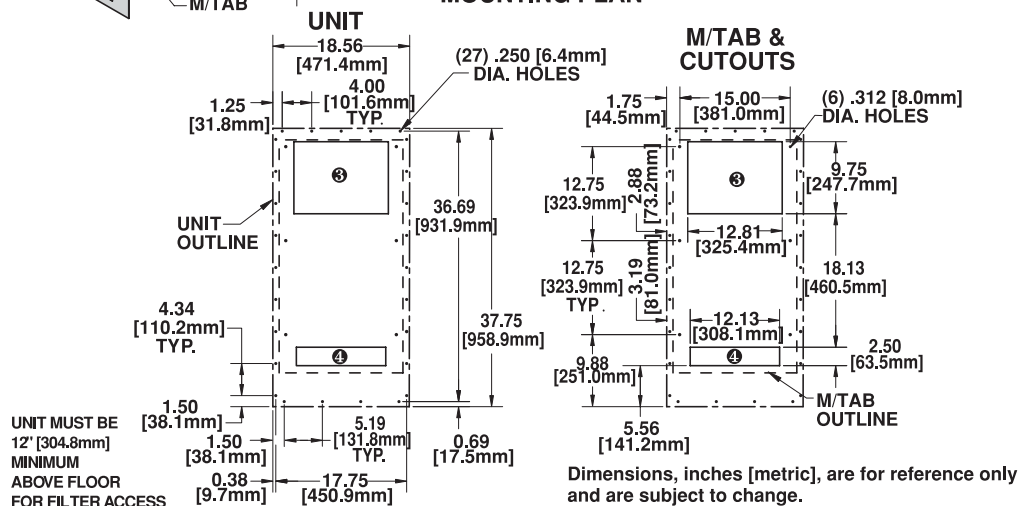


NEMA  
TYPE 4/4X  
MAINTAINED



- ① FILTERED CONDENSER AIR INLET (Ambient Air In)
- ② CONDENSER OUTLET (Warm Ambient Air Out)
- ③ WARM AIR RETURN FROM ENCLOSURE (Enclosure opening should be located as high as possible within this area, and equal or exceed size of cool air outlets.)
- ④ COOL AIR OUTLET TO ENCLOSURE

### MOUNTING PLAN



\* Other drain outlets are available - consult KOOLTRONIC.





## Packaged Fans — Filter Box Fans



### Description

With high airflow and low noise operation, these versatile packaged fans are very popular in a wide range of applications, especially with their minimal internal cabinet depth requirement.

Reversible designs allow the user to push or pull air through the enclosure. In addition, these fans can be installed internally or externally, vertically or horizontally, with or without a filter on either side. With the KOOLTRONIC special motor-mount isolation system, these fans operate virtually vibration-free. Front and rear grilles can be adjusted to accommodate or omit filter. Filters are easily removable for cleaning and replacement. Three models are available with a capacity range of 105 to 550 CFM.

### Standard Features

**RUGGED CONSTRUCTION:** Precision-engineered heavy-gauge steel construction insures fans stand up under tough applications.

**BAKED POWDER FINISH:** Durable, baked-on gray powder finish is standard.

**PRECISION BALL-BEARING MOTORS:** All motors, whether permanent split capacitor or shaded pole, are UL/CSA Recognized and include automatic-reset thermal overload protection. Designed for low temperature rise, KOOLTRONIC motors are also cooled by the fans' intake air for maximum motor life. All motors meet Federal Specification CC-M-1807A, and include double-sealed or double-shielded precision ball bearings which meet Federal Specification FF-B-171A. Special permanent lubricants perform over a broad temperature range: -20°F (-28.9°C) to 250°F (121.1°C). These motors are not designed to meet military or extreme environmental specifications.

**POWER:** 115 VAC, 50/60 Hz is standard.

**LEADS:** 12" [304.8mm] (minimum) power and ground leads.

**CAUTION:** We strongly recommend proper guarding of fans to prevent serious injury.

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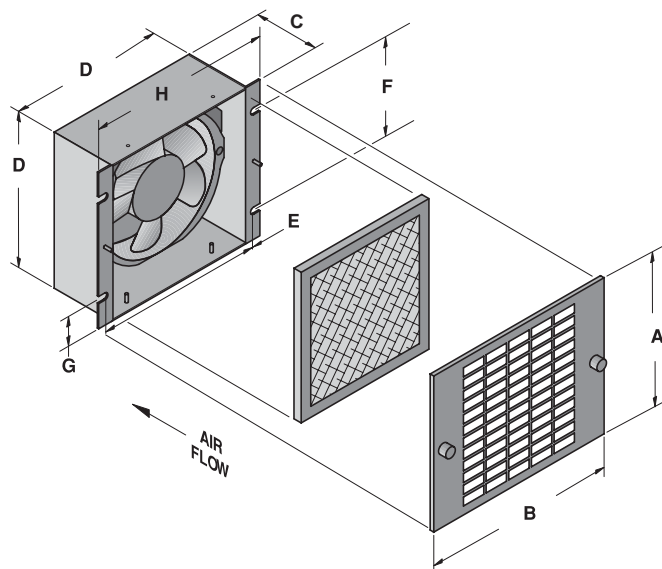
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# Packaged Fans — Filter Box Fans

## FAN ASSEMBLY



Finguard on rear of fan not shown.

## Dimensions (in inches)

Item No.	A	B	C	D	E	F	G	H
KP40	6-1/8	7-3/8	2-3/8	5-5/8	6-3/8	4-1/8	3/4	7
KP60	7-5/8	8-7/8	3	7-1/8	7-7/8	4-1/2	1-5/16	8-1/2
KP100	11-5/8	13	4-9/16	11-1/8	11-7/8	6-7/8	2-1/8	12-1/2

Dimensions (inches) are for reference only and are subject to change.

## Technical Data

Model	CFM @ 0" S.P. Fan Only	RPM Nominal	Running Amps	Watts	Shipping Weight (lbs.)	Volts	Hz
KP40	105	3000	0.18	15	5	115	50/60
KP60	220	3300	0.29	33	6	115	50/60
KP100	550	1600	0.87	60	12	115	50/60



# Packaged Fans — Filter Box Fans

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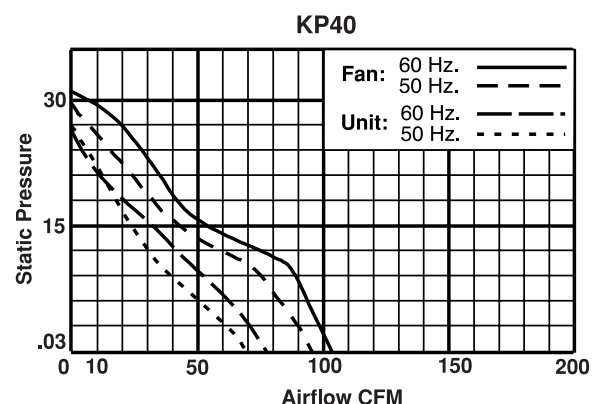
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## KP40, KP60 and KP100 Filter Box Fans Performance Charts

Airflow vs. static pressure curves are shown for 60 Hz and 50 Hz (broken line) inputs. Static pressure is in inches of water.

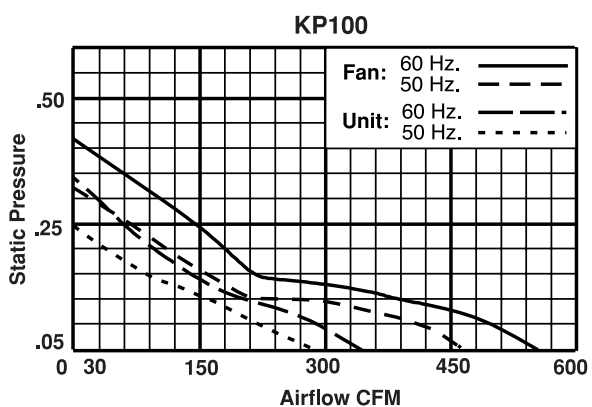
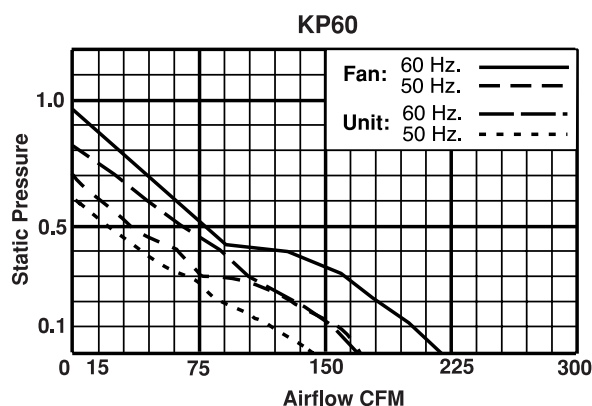
### Conversion Factors:

Multiply airflow in cubic feet per minute (CFM) by:

- 1.7 to obtain airflow in cubic meters per hour ( $\text{m}^3/\text{hr}$ )
- 0.47 to obtain airflow in liters per second (L/S)

Multiply static pressure in inches of water ( $"\text{H}_2\text{O}$ ) by:

- 25.4 to obtain static pressure in millimeters of water ( $\text{mm H}_2\text{O}$ )
- 249 to obtain static pressure in Pascals (Pa)



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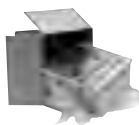
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We feature same day shipping on orders received by 12:00pm Eastern time on business days. Excludes Aluminum enclosures and Kooltronic products, call for current shipping schedules.

### Shipping Methods and Charges

AD Products Company can only ship product to addresses in the United States at this time. We offer several different shipping methods in order to meet your delivery needs including UPS, FedEx, Consolidated

Freightways, and Overnite. UPS is our preferred carrier. Our standard freight and handling charges are computed based upon total order value and are added to the invoice. Standard freight and handling charges assume ground shipment. Requests for air shipments may be made via fax or email.

### Backorders

While it is our goal to carry sufficient inventory to meet demand at all times, we may experience temporary stock-outs for certain items. Shortly after placing your order you will receive email notification of any backordered items and their anticipated ship date. Backorders may be cancelled prior to shipping by contacting customer service at [info@adproductsco.com](mailto:info@adproductsco.com).

### Returns

Returned material will not be accepted without an AD Products Company issued Material Return Authorization (MRA). Returned materials must be of current design, purchased within the last 30 days, unused, in the original carton, and in resaleable condition. All returned material must be shipped freight prepaid. Collect shipments will not be accepted. Credit on accepted returns will be issued less a 20% restocking charge.

### Warranty Returns

All AD Products Company products carry a 30 day warranty against defects in materials and workmanship. If a product fails to perform properly within 30 days from the date of purchase, we will replace it or repair it at our option. All returns must be accompanied by a Material Return Authorization (MRA). Please contact customer service via fax, email, or at (800) 325-4935 to obtain an MRA.

## PAYMENT OPTIONS

### Credit Cards

We accept VISA, MasterCard, Discover, and American Express credit cards. Orders totaling less than \$2,000 require payment by credit card. A \$50 minimum purchase is required for all orders. When ordering by credit card be sure to provide the corresponding billing address and telephone number for the credit card. Incorrect information may delay the processing of your order. Credit card transactions will be approved online by your credit card issuer, but your credit card will not be charged until your order ships.

### Purchase Orders

We accept purchase orders from customers with approved accounts. Credit accounts can be established by completing our on-line credit application. Credit card payment is required on all orders less than \$2,000. COD orders are not accepted at this time.

### Taxes

All tax exempt customers must provide a tax exempt certificate. Please fax to us at (216) 267-5392.



# Terms of Sale

**Acceptance:** The Seller's acceptance of any order is expressly subject to Buyer's assent to each and all of the terms and conditions set forth below. Any additional or different terms and conditions submitted by Buyer shall be deemed objected to by Seller and shall be of no effect nor in any circumstances binding upon Seller unless accepted by Seller in writing. If Buyer objects to any of the terms and conditions, said objections must be specifically brought to the attention of Seller by Buyer by a written instrument separate from any purchase order or other printed form of Buyer. Said objections shall be deemed proposals for different terms and conditions and may be accepted only by a writing executed by an authorized representative of Seller at its offices in Cleveland, Ohio U.S.A.

**Prices and Transportation:** Seller's published prices, terms of payment and transportation terms in effect at the time the Buyer enters an order. Prices specified are subject to change without prior notice. All pricing is in U.S. Dollars.

**Taxes:** Liability for all present or future Federal, State, Municipal or other sales, property, use or excise taxes, license fees or other fees imposed by or payable to any governmental authority, including any department, agency or subdivision thereof, upon the production, sale, shipment and/or use of the equipment, material or services covered hereby shall be assumed and paid for by Buyer and Buyer shall indemnify the Seller against any such liability.

**Delivery:** Delivery of the equipment and material shall be made F.O.B. shipping point, and title and risk of loss of the equipment and material shall pass to Buyer at F.O.B. shipping point. Unless Buyer specifies in writing the desired method of transportation (air express, motor freight, etc.), within a reasonable period of time before the date scheduled for shipment, Seller will use its judgment in selecting the carrier and route. Delivery schedules are estimated, and Seller assumes no responsibility for delays.

**Terms of Payment:** For approved credit account customers, Invoices shall be due and payable within thirty (30) days of the invoice date. Payments not made within thirty (30) days are subject to a finance charge of 1 1/2% of the outstanding balance each month or part thereof until paid.

**Financial Responsibility of Buyer:** If at any time before shipment the financial responsibility of Buyer becomes impaired, or unsatisfactory to the Seller, cash payment or satisfactory security may be required by the Seller before shipment. Buyer will cooperate with the Seller in complying with any applicable conditional sale or security law and will furnish the Seller with other assurances, including financial statements, as the Seller may reasonably request. If Buyer shall fail to make payments in accordance with the terms herein specified, Seller, in addition to its other rights and remedies, may at its option terminate shipment. In the event of bankruptcy or insolvency of Buyer, or in the event any proceeding is brought by or against Buyer under any bankruptcy or insolvency laws, the Seller may be entitled to cancel any order then outstanding and shall receive reasonable and proper cancellation charges.

**Cancellations and Returns:** Orders may not be canceled by the Buyer without the prior written consent of the Seller. Equipment and material may not be returned by the Buyer without the prior written consent of the Seller. Cancellation and restocking charges will be assessed to the Buyer where applicable.

**Warranty:** The Seller expressly warrants that equipment and material manufactured by it will be free from defects in material, workmanship and title at the date of shipment. This Warranty is exclusive and is offered in LIEU OF ALL IMPLIED OR STATUTORY WARRANTIES (INCLUDING WITHOUT LIMITATION, WARRANTIES AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM COURSE OF DEALING OR USAGE OF TRADE) or any other express or implied warranties or representations. All claims under this Warranty must be made in writing and delivered to the Seller prior to the expiration of 30 days from the date of shipment from the factory or be barred. Upon receipt of a timely claim, the Seller shall inspect the item or items claimed to be defective, and Seller shall, at its option, modify, repair or replace, free of charge, any item or items which the Seller determines to have been defective at the time of shipment from the factory, excluding normal wear and tear. Inspection may be performed at the Seller's plant, and in such event, freight for returning items to the plant for inspection shall be paid by Buyer. Seller shall have no responsibility if such item has been improperly stored, installed,

operated, maintained, modified and/or repaired by an organization other than the Seller. Adjustments for items of equipment and material not manufactured by Seller shall be made to the extent of any warranty of the manufacturer or supplier thereof. The foregoing shall be Seller's sole and exclusive liability and Buyer's sole exclusive remedy for any breach of warranty or for any other claim based on any defect in, or non-performance of, the equipment and material, whether based on breach of contract or in tort, including negligence or strict liability.

**Disclaimer of Damages:** Notwithstanding any other provision of the contract, in no event shall the Seller or its subcontractors or suppliers be liable, whether arising under contract, tort (including negligence), strict liability or otherwise, for loss of anticipated profits, claims of Buyer's customers, cost of money, loss of use of capital or revenue, cost of substitute products, or for any special, incidental or consequential loss or damage of any nature arising at any time or from any cause whatsoever.

**Assignment:** Neither Seller nor Buyer shall have the right to assign any right or interest in any contract between Seller and Buyer unless such assignment is in connection with the transfer of all or substantially all of the assignor's business, or upon written consent of the other party.

**Tender:** In the event of failure or refusal of Buyer to accept delivery, no physical tender of the equipment and material by the Seller shall be necessary, but written notice of the Seller's readiness and willingness to deliver any quantity of the equipment or material at any time specified shall be equivalent to physical tender thereof.

**Proprietary Data:** Unless otherwise specifically agreed in a writing signed by an authorized officer of the Seller, neither Buyer nor any representative of Buyer, nor any other person, shall be entitled to, or have control over, any engineering or production prints, drawings or technical data which the Seller, in its sole discretion, may consider to be, in whole or in part, proprietary. Any such prints, drawings, data and other information transmitted to Buyer in connection with any order are the property of Seller and are disclosed in confidence on the condition that they are not to be reproduced, copied or used for any purpose detrimental to the interest of Seller.

**Assistance:** Seller may, but shall have no obligation to furnish Buyer with recommendations, engineering and technical information and advice and other assistance. All such assistance is furnished without charge solely as an accommodation to Buyer and the Seller shall have no liability for inaccurate, incomplete or faulty recommendations, information, advice and assistance, whether or not negligent.

**Labor Standards:** The Seller represents and warrants that all equipment, material and services will be manufactured or furnished by the Seller in accordance with all applicable standards, provisions, and stipulations of the Fair Labor Standards Act of 1938, the Walsh-Healey Act, the Work Hours Act, and Section 202 of Executive Order No. 11246 as to non-discrimination in employment, and any amendments thereto.

**Force Majeure:** The Seller shall not be liable for any expense, loss or damage resulting from delay or prevention of performance caused by fires, floods, acts of God, strikes, labor disputes, labor shortages, lack of or reasonable inability to obtain materials, fuel, supplies or other equipment, riots, thefts, accidents, transportation delays, acts or failure to act of government or Buyer, delay in obtaining licenses or required permits, unusually severe weather, or any other cause whatsoever, whether similar or dissimilar to those enumerated above, beyond the reasonable control of the Seller. In the event of any delay arising by reason of the foregoing, the time for performance shall be extended by a period of time equal to the time lost by reason of such delay.

**Non-Waiver:** No failure of Seller to insist upon strict compliance of Buyer to any of these terms and conditions or to promptly exercise any right accruing from any default of Buyer shall impair Seller's rights in case Buyer's default continues or in case of any subsequent default of Buyer.

**Governing Law:** The rights and obligations of Seller and Buyer with respect to any contract between Seller and Buyer shall be governed by the laws of the State of Ohio.





# Order Form

Date \_\_\_\_\_ P.O.# \_\_\_\_\_

Introduction

Carbon Steel Boxes

Stainless Steel Boxes

Aluminum Boxes

Fiberglass Boxes

Industrial Pilot Devices

PowerSpec® Connectors

Sky-Tie™ Clamps

Remke Cord Grips

Kooltronic™ Cooling

Index &amp; Ordering Info

## Billing Address

Company Name.....  
Contact Name .....  
Street .....  
City .....  
State..... Zip .....  
Phone .....  
Fax .....  
Email .....

## Shipping Address (if different)

Company Name.....  
Contact Name .....  
Street .....  
City .....  
State..... Zip .....  
Phone .....  
Fax .....

## Contacting Us

Do you have questions or concerns about buying online from [adproductsco.com](http://adproductsco.com), or do you prefer to speak with a representative before completing your purchase? You may contact us by calling our offices from 8:00 am to 5:00 pm Eastern time.

AD Products Company  
A Scott Fetzer Company  
4799 West 150th Street  
Cleveland, OH 44135

Phone: 800-325-4935  
Fax: 216-267-5392

## Purchase Orders

Orders totaling less than \$2000 require payment by credit card. You must have an approved credit account established in order to purchase with a Purchase Order (PO) number. To establish an account, fax us your Credit Application. We try to evaluate Credit Applications within 2 business days. Your order will ship upon credit approval.

## Thank you!

You will be informed of any delay in completing your order.

Item	Qty.	Part No.	Description	Unit Price	Total Price
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					

## Shipping and Payment Method (required)

Shipping Method: \_\_\_\_\_

### Payment Method (check one):

☐ Purchase Order  
(orders \$2000+, with established account)

☐ MasterCard ☐ Visa  
☐ American Express ☐ Discover

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Expiration Date (required) 

--	--	--	--

--	--

  
Month Year

Signature \_\_\_\_\_  
Name on card \_\_\_\_\_

Subtotal of Items  
(min. order is \$50)Standard Freight  
and Handling\*

Subtotal

Sales Tax  
(if applicable;  
for sales tax  
exempted, include  
exemption certificate)

Total

\*Standard freight and handling charges are based upon total order value and are added to the invoice. Call to obtain shipping charges if needed. Standard freight and handling charges assume ground shipment. Requests for air shipments may be made via fax or email. UPS is our preferred carrier for standard delivery. Same day shipping occurs on orders received by 12:00 Eastern time on business days. We can only ship product to addresses in the United States at this time. For approved credit account customers, terms of payment are net 30 days, FOB shipping point.





# Credit Application

Please enter all the information below to submit a credit application.  
It can then be faxed to 216-267-5392; or you can fill out the same form online  
under the Customer Service section of [adproductsco.com](http://adproductsco.com).

Firm Name .....

Last Name .....

First Name .....

Email Address (User Name) .....

Password (Create Your Own) .....

Billing Address .....

Billing City .....

Billing State .....

Tax State .....

Exempt # (if exempt chosen) .....

Billing Zip Code .....

Billing Country .....

Ship To Address.....

Ship To City .....

Ship To State .....

Ship To Zip Code .....

Phone.....

Fax .....

President/Owner Name .....

Business Type .....

Federal ID Number .....

How Long in Business .....

Total Annual Sales .....

Est Annual Purchase of Our Products .....



Enclosures on Demand<sup>SM</sup>

**Order on-line, by phone, by fax, or by email: [www.adproductsco.com](http://www.adproductsco.com)**  
Tel: 800.325.4935 • Fax: 216.267.5392 • [info@adproductsco.com](mailto:info@adproductsco.com)



**Now Offering:  
Carbon Steel  
Stainless Steel  
Fiberglass &  
Aluminum!\***



# Enclosures On Demand!<sup>SM</sup>

**Stainless Steel, Fiberglass & Carbon Steel  
Enclosures Shipped In 24 Hours**

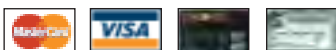
The most common NEMA Type 12, 4 and 4X enclosures, now available at the click of a mouse! Simply pick your configuration, size, optional panels, and shipping preference, and you're done!



**Free Gift for  
first-time  
buyers!**



4799 West 150th St.  
Cleveland OH 44135



\*Aluminum by special order

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