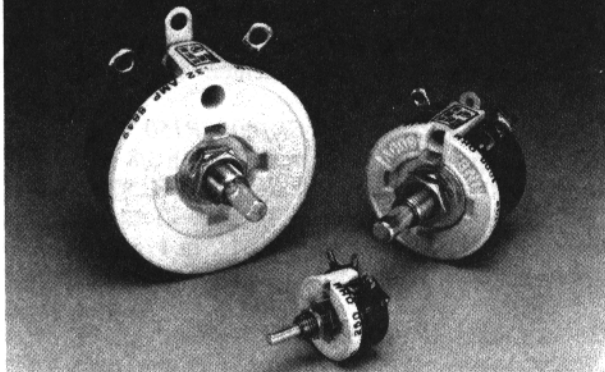


## Series CR Rheostats

12.5, 25, 50, 75, 100, 150, 225, 300,  
500, 1000 Watt



## Series CR Material Specifications

### Coating

Vitreous enamel

### Body

Ceramic

### Windings

High-grade resistance alloy

### Terminals

Welded and solder-coated

### Weight (lbs.)

|                           |                          |
|---------------------------|--------------------------|
| CR12.5...0.6 oz.          | <del>CR150.....1.1</del> |
| CR25.....0.19             | <del>CR225.....2</del>   |
| CR50.....0.32             | <del>CR300.....2.6</del> |
| <del>CR75.....0.52</del>  | <del>CR500.....4</del>   |
| <del>CR100.....0.64</del> | <del>CR1000...10</del>   |

## Series CR Electrical Specifications

### Resistance Tolerance

±10% standard

Closer tolerances available.

### Voltage

High-strength ceramic hub insulates the shaft and bushing from all line parts. 25 watt to 150 watt models have the live parts insulated to ground to meet Underwriters' Laboratories 300 volt rating. 225 watt to 1000 watt models meet U.L.'s 600 volt rating. 12.5 watt model is not U.L. approved.

### Dielectric Withstanding Voltage

25 watt to 1000 watt models, 3000 Vac test to ground.

### Resistance Range (ohms)

|                            |                             |
|----------------------------|-----------------------------|
| CR12.5...1-5000            | <del>CR150.....1-10K</del>  |
| CR25.....1-5000            | <del>CR225.....1-2500</del> |
| CR50.....1-10K             | <del>CR300.....1-2500</del> |
| <del>CR75.....1-10K</del>  | <del>CR500.....1-2500</del> |
| <del>CR100.....1-10K</del> | <del>CR1000...1-2000</del>  |

## Description

The CR series of rheostats is ideal for use over long periods of time. The CR series is made in accordance to MIL-R-22 and most of this series is UL approved.

## Features

- Vitreous enamel bonds core and base
- Windings secured to prevent shifting
- Wiper tracks are buffed to assure smooth rotation and uniform contact
- Three terminals for potentiometer applications
- Minimum backlash

## Series CR Mechanical Specifications

### Shaft Torque (lbs. inches)

|                      |                                |
|----------------------|--------------------------------|
| CR150.....0.5 to 3.0 | CR12.5...1.0 to 6.0            |
| CR225.....2.5 to 4.0 | CR25....0.25 to 0.5            |
| CR300.....2.5 to 5.0 | CR50....0.25 to 2.0            |
| CR500.....4.5 to 7.0 | <del>CR75.....0.5 to 2.0</del> |
| CR1000...3.5 to 7.0  | <del>CR100....0.5 to 2.0</del> |

### Rotation ( $\pm 5\%$ )

|                          |                           |
|--------------------------|---------------------------|
| CR12.5...300°            | <del>CR150.....300°</del> |
| CR25.....300°            | <del>CR225....310°</del>  |
| CR50.....300°            | <del>CR300....370°</del>  |
| <del>CR75.....300°</del> | CR500....325°             |
| <del>CR100....300°</del> | CR1000...335°             |

## Standard Mounting

### Series CR12.5

Mounts to panels up to 1/8 in. (3.175 mm) thick with 1/4 in. (6.35 mm) - 32 (6.35 mm) bushing and hex nut, locating pin requires 1/8 in. (3.175 mm) diameter hole, 1/4 in. (6.35 mm) below shaft center.

### Series CR25, CR50, CR75, CR100, CR150

Mounts to panels up to 1/4 in. thick with 3/8 in. (9.53 mm) - 32 bushing and hex nut, (CR150 can use 10 in. (254 mm) - 32 thread F.H. screws.) Locating pin requires .188 in. (4.78 mm) hole, 1/2 in. (12.7 mm) below center of shaft, CR150 has no locating pin.

### Series CR225, CR300, CR500, CR1000

Mounts to panels up to 1 1/4 in. (31.75 mm) thick with two 1/4 in. (6.35 mm) - 20 x 1 1/2 in. (38.1 mm) flat head screws. (included).

Figure 1

### CR 12-1/2 - 12.5 WATTS

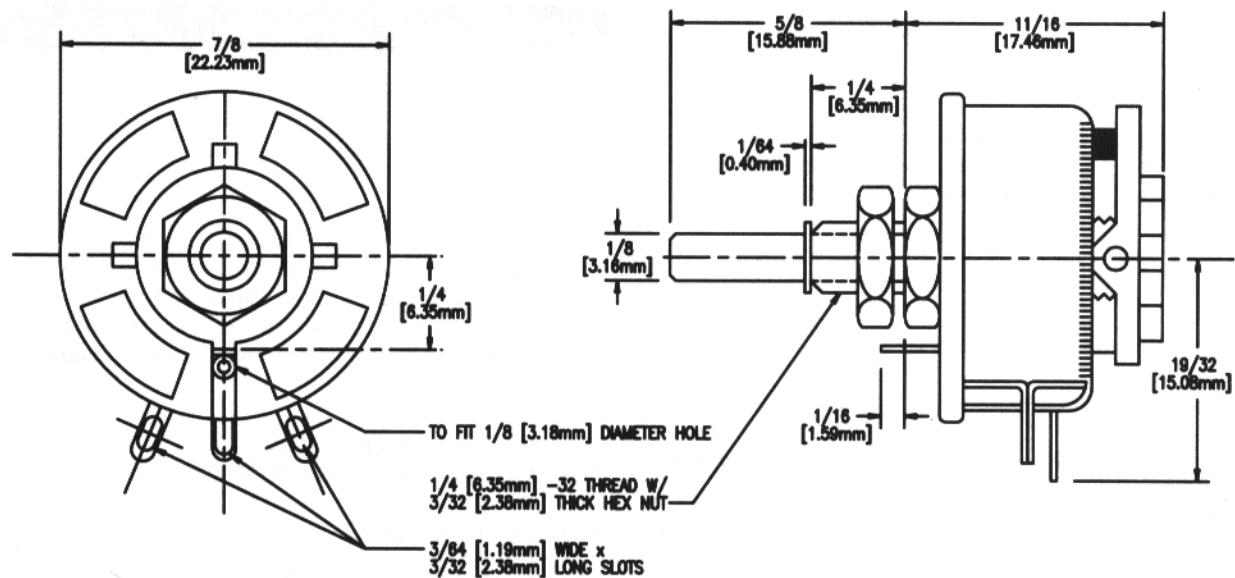
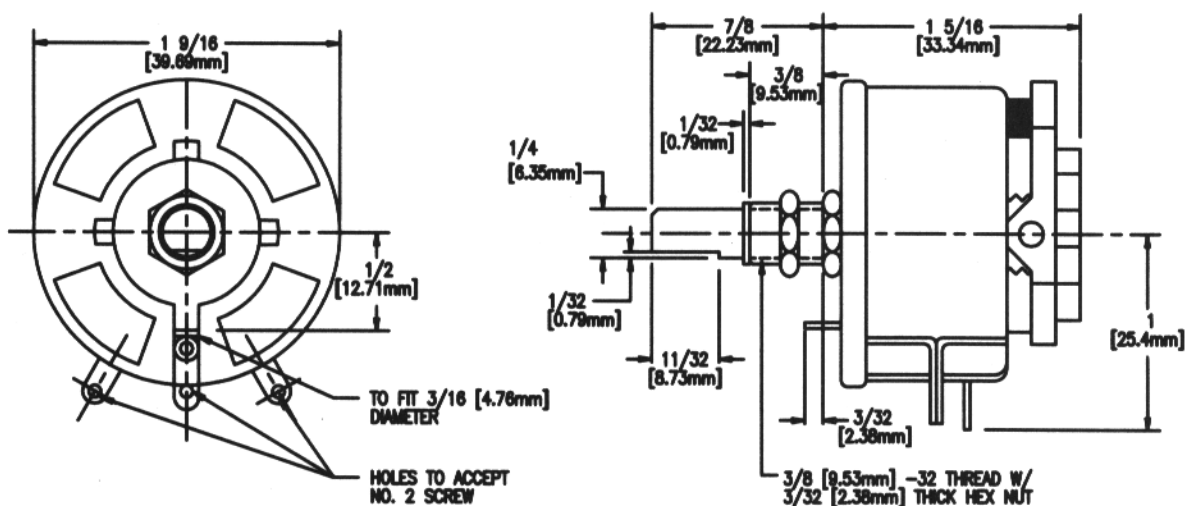


Figure 2

### CR25 - 25 WATTS

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**CR50 - 50 WATTS**

~~CR75 - 75 WATTS~~

The technical drawing illustrates the 600 Series Water Filter Housing from two perspectives: a front view on the left and a side view on the right.

**Front View Dimensions:**

- Overall diameter:  $2 \frac{3}{4}$  [69.85mm]
- Central hex nut hole diameter:  $\frac{1}{2}$  [12.7mm]

**Side View Dimensions:**

- Total height:  $1 \frac{13}{16}$  [30.69mm]
- Top flange thickness:  $\frac{7}{8}$  [22.23mm]
- Distance from top flange to mounting holes:  $1 \frac{3}{4}$  [44.45mm]
- Mounting hole diameter:  $\frac{3}{8}$  [9.53mm]
- Distance between mounting holes:  $\frac{1}{4}$  [6.35mm]
- Distance from centerline to mounting holes:  $\frac{1}{32}$  [0.79mm]
- Distance from bottom flange to mounting holes:  $\frac{11}{32}$  [8.73mm]
- Bottom flange thickness:  $\frac{3}{32}$  [2.38mm]

**Assembly Notes:**

- $\frac{3}{8}$  [9.53mm] - 32 THREAD W/  
 $\frac{3}{32}$  [2.38mm] THICK HEX NUT
- TO FIT  $\frac{3}{16}$  [4.76mm]  
DIA. HOLE
- HOLE TO CLEAR  
NO. 8 SCREW

Figure 5

**CR100 - 100 WATTS**

UL APPROVED

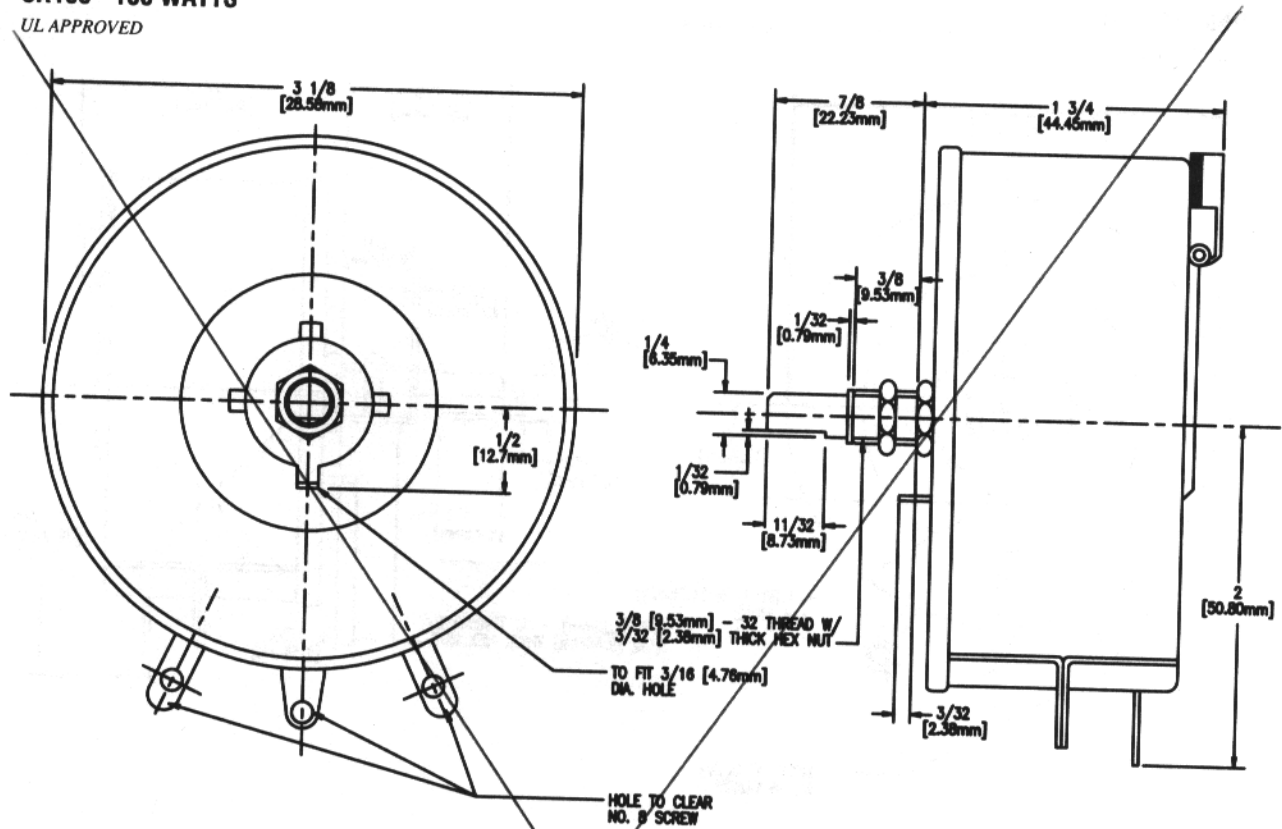


Figure 6

**CR150 - 150 WATTS**

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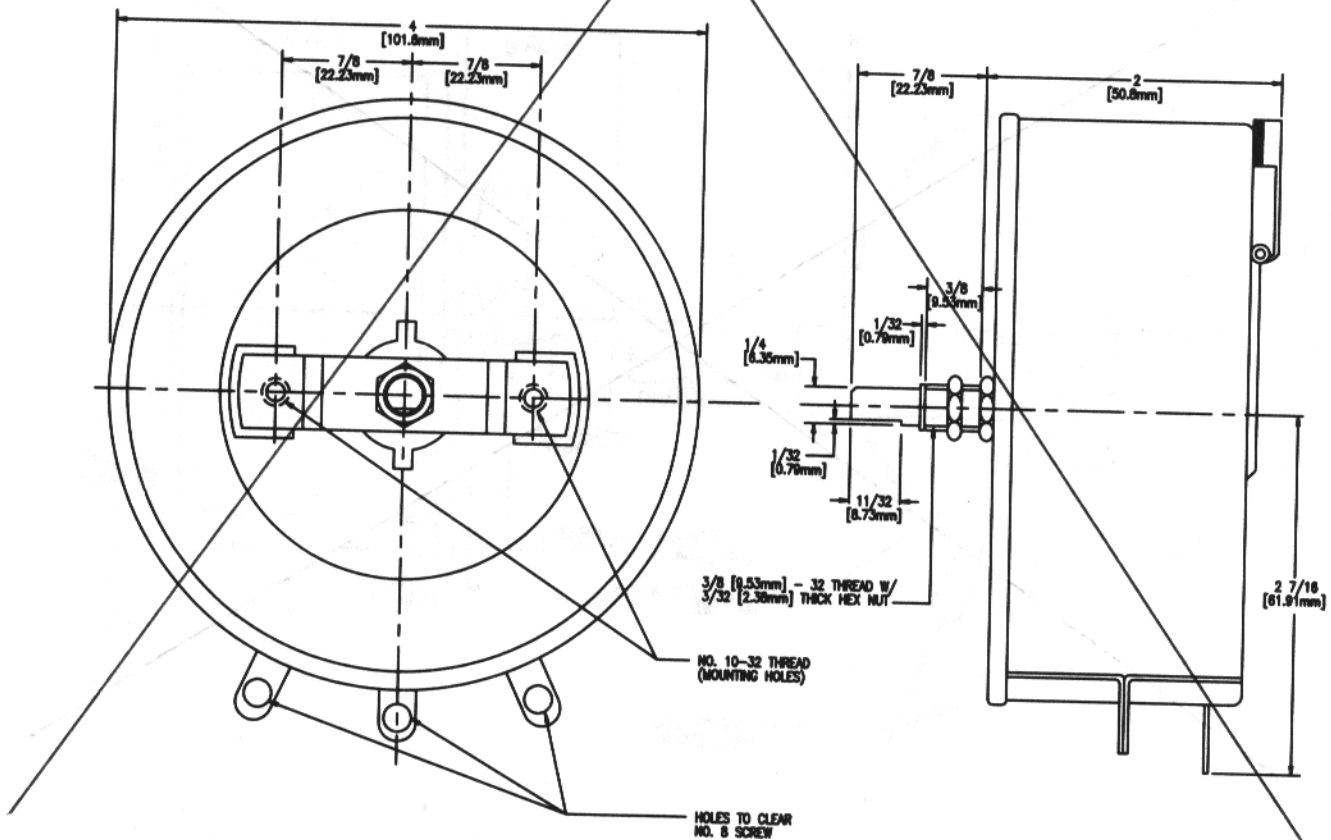


Figure 7

CR225 - 225 WATTS

UL APPROVED

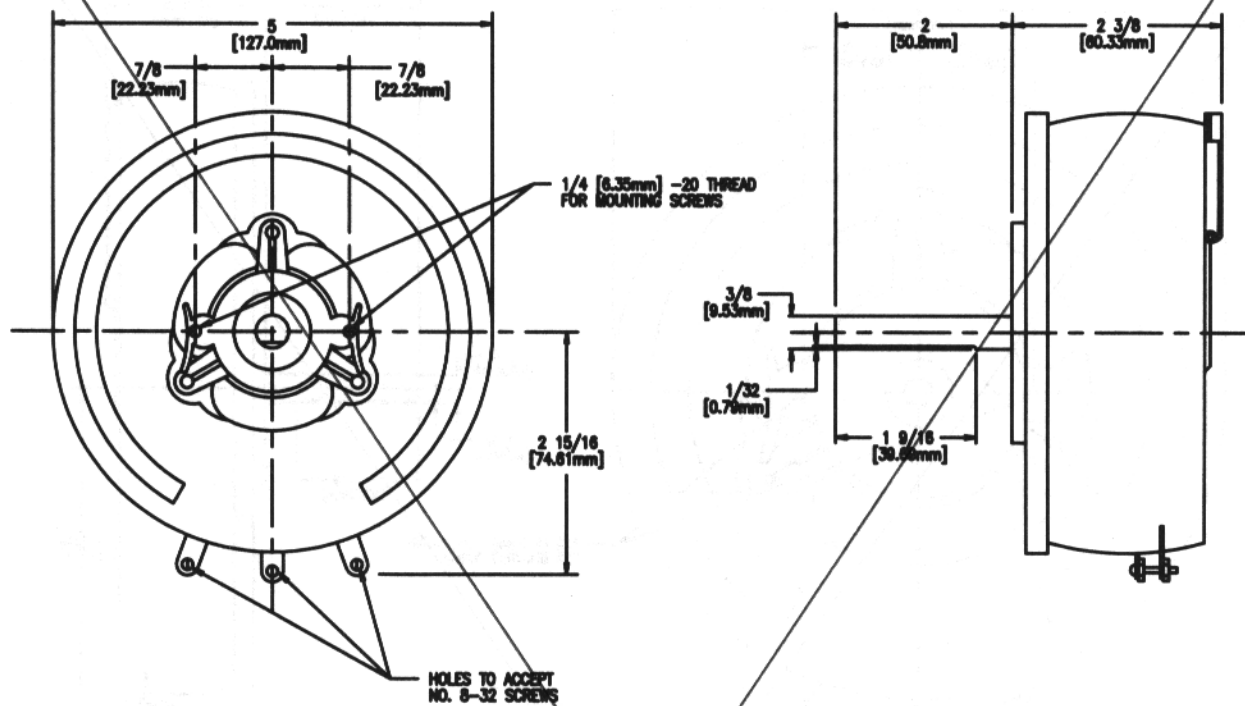


Figure 8

CR300 - 300 WATTS

UL APPROVED

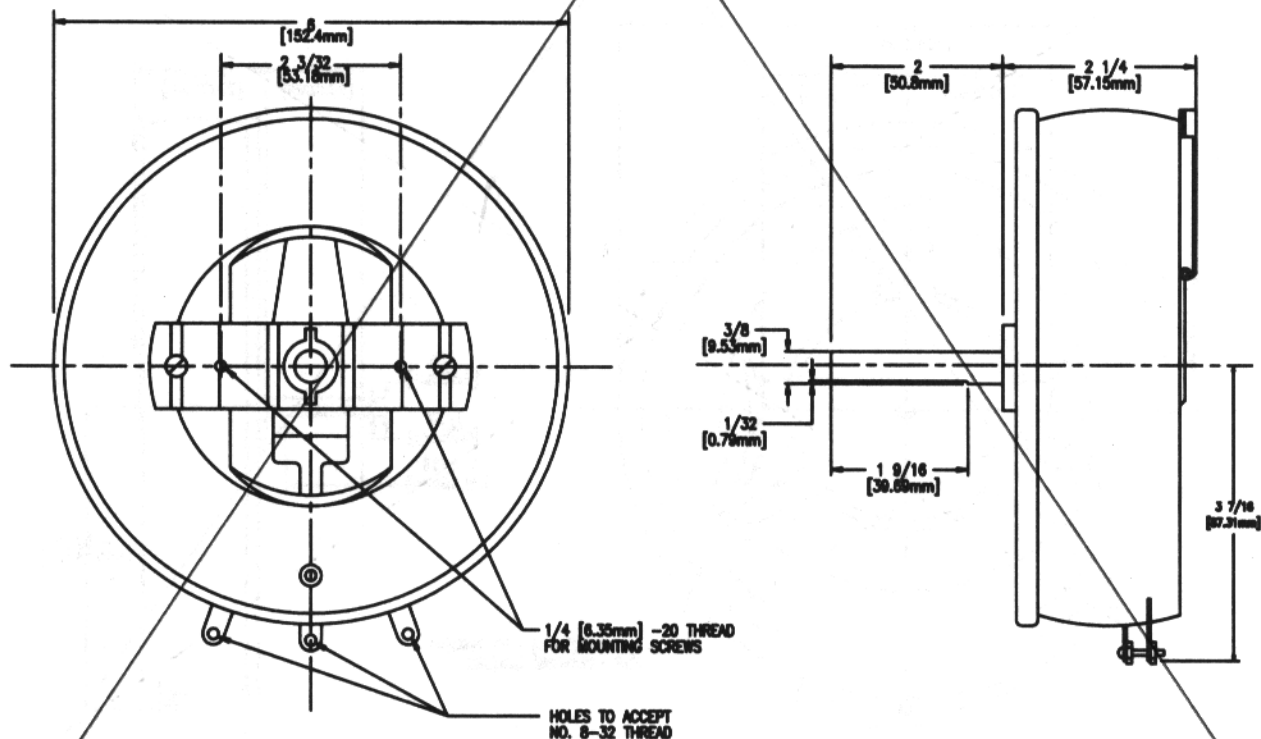


Figure 9

**CR500 - 500 WATTS**

UL APPROVED

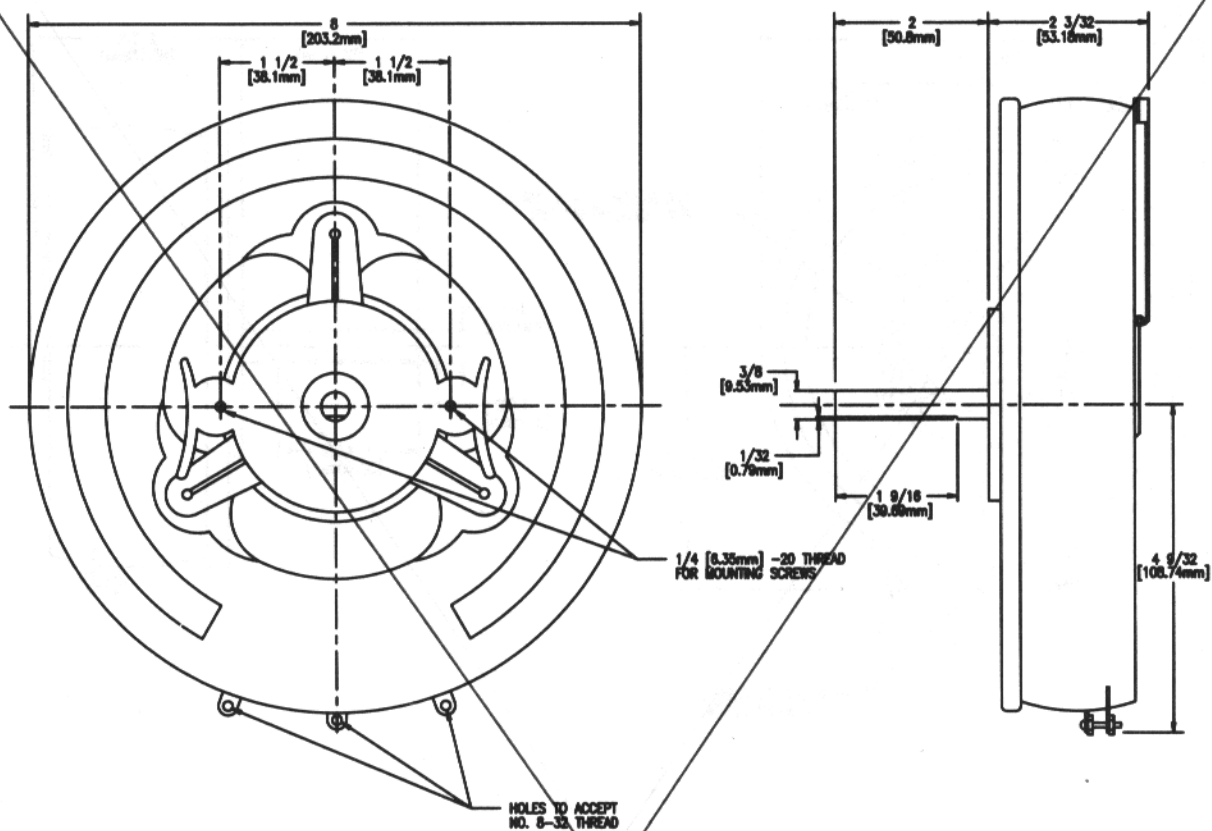
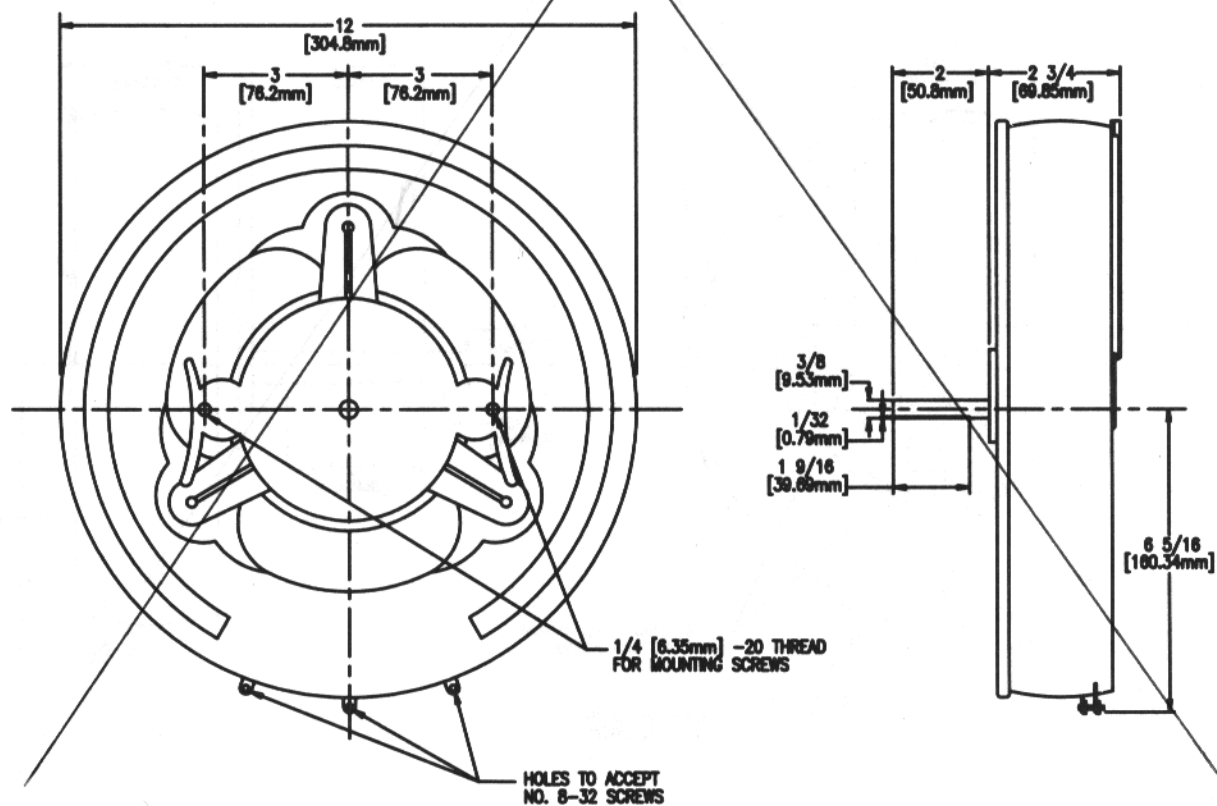


Figure 10

**CR1000 - 1000 WATTS**

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## Series CR Standard Resistance Values

### Stock Values (Ohms)

#### CR 12.5

|    |      |
|----|------|
| 15 | 100  |
| 25 | 250  |
| 50 | 1500 |
| 75 | 10K  |

#### CR25

|    |     |     |      |      |
|----|-----|-----|------|------|
| 3  | 25  | 125 | 750  | 3.5K |
| 6  | 50  | 175 | 1K   | 5K   |
| 10 | 75  | 250 | 1.5K | 10K  |
| 15 | 100 | 500 | 2.5K |      |

#### CR50

|     |     |
|-----|-----|
| 0.5 | 225 |
| 1   | 500 |
| 50  | 1K  |
| 125 | 10K |

#### Notes:

12.5, 25, and 50 watt versions are stocked.  
All others are on a made-to-order basis, please  
contact Factory for pricing and minimums.  
Lead time: 6 to 8 weeks for made-to-order items.  
Made-to-order items are non-cancellable,  
non-returnable.

## Series CR How to Order

Series/Wattage + Resistance Value = Part Number

#### Examples:

If 12.5 watts: CR12.5 + 250 Ohms = CR12.5-250

If 50 watts: CR50 + 225 Ohms = CR50-225

If 300 watts\*: CR300 + 100 Ohms = CR300-100

If 1000 watts\*: CR1000 + 750 Ohms = CR1000-750

\*made-to-order.