

# Mercmaster™ Jr. Luminaires

## High Pressure Sodium. Suitable for Use in Wet Locations

UNILETS® for Use with Threaded Metal Conduit. 120 V Integral Ballast. Medium Base Socket for Medium Base Lamps.

### NEC:

#### With Globe:

35 W, 50 W:

Class I, Division 2, Groups A, B, C, D

Class II, Division 1 and 2, Groups E ②, F, G

Class III

### NEC:

70 W: ①

Class I, Division 2, Groups A, B, C, D

Class II, Division 1 and 2, Groups E ②, F

100 W, 150 W: ①

Class I, Division 2, Groups A, B, C, D

### NEC:

#### With Refractor (NEMA V):

35 W, 50 W, 70 W, 100 W:

Class I, Division 2, Groups A, B, C, D

Class II, Division 1 and 2, Groups E ②, F, G

Class III

### NEC:

150 W: ①

Class I, Division 2, Groups A, B, C, D

## Applications

- Inexpensive HID integrally ballasted fixture for use in hazardous locations – inexpensive to buy and inexpensive to operate (uses one-fifth as much electrical energy as incandescent and three-quarters as much as fluorescent).
- Enclosed and gasketed HID lighting fixtures for use in tunnels, walkways, bridges, storage facilities, processing plants, parking lots, foundries, manufacturing plants, power plants and other locations where moisture, dirt, dust or corrosive atmospheres are encountered.

## Features

- “Wireless” design. Threading of fixture unit onto mounting hood makes electrical connection. Only wiring required is attaching two wires to connection block in mounting hood.
- Safe, easy servicing without disconnecting any wiring. “Wireless” fixture unit easily threads off mounting hood for convenient servicing.
- Quick, easy conversion from Appleton V-51® incandescent installation to Mercmaster Jr. HID. Just remove V-51® fixture unit and thread Mercmaster Jr. fixture unit onto existing V-51® mounting hood.
- Choice of mounting hoods. Standard fixtures in pendant, ceiling, outlet box, wall and stanchion mountings.
- Standard pendant mounting hood for rigid or flexible mounting. Balanced round design automatically hangs plumb when used with flexible hanger.
- Unitized construction reduces installation and maintenance costs.
- Ballast has standard non-PCB biodegradable capacitors.
- Medium base socket is furnished with 200 °C (392 °F) leads, prewired to the ballast. Porcelain socket assures trouble-free operation in high ambient installations.
- Prismatic glass globe or glass refractor is standard and threads directly into fixture housing. Eliminates glare and provides uniform light distribution.
- Fiberglass reinforced polyester reflector for exceptionally severe corrosive atmospheres. Vented for cooler, dirt-free operation, increased lumen output.

## Standard Materials

- Mounting hoods: copperfree (4/10 of 1% max.) aluminum or malleable iron
- Ballast bodies: copperfree (4/10 of 1% max.) aluminum
- Guards: copperfree (4/10 of 1% max.) aluminum or steel
- Reflectors: fiberglass reinforced polyester or porcelain
- Globe: 35 W-100 W, threaded prismatic glass and threaded polycarbonate; 150 W, threaded heat-resistant prismatic glass
- Refractor: heat-resistant prismatic glass

## Standard Finishes

- Ballast bodies, aluminum guard and VMA, VXHA-A, OBVW1-A, OBV1-A, JBW1-A, JB1-A, GSW2 and MS mounting hoods: epoxy powder coat finish, electrostatically applied for complete, uniform surface protection
- VA, VXHA, OBVW1, OBV1, GS-2, JBW1, and JB1 malleable iron mounting hoods: triple coat – (1) zinc electroplate; (2) chromate; and (3) epoxy powder coat
- Steel guard: zinc electroplate



## Illustrated Feature

Conversion from Appleton V-51 incandescent installation to HID Mercmaster Jr. is easy and fast.



### Step No. 1:

After power is shut off, remove present incandescent V-51 fixture unit from existing V-51 mounting hood.



### Step No. 2:

Thread Mercmaster Jr. HID fixture unit onto existing V-51 mounting hood – and conversion is completed.

## Options

- Fuses for fixtures, factory installed. Add suffix -F.

## NEC Certifications and Compliances

- UL Standard: UL 1598, UL 1598A, UL 844
- UL Listed: E10444

① The MJBW Wall Mount Fixture is suitable for Class I, Division 2, Groups A, B, C and D only.

② Per NEC 500.6(1), there is no such classification as Class II, Division 2, Group E.

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**NEC:**  
**With Globe:**  
 35 W, 50 W:  
 Class I, Division 2, Groups A, B, C, D  
 Class II, Division 1 and 2, Groups E ②, F, G  
 Class III

**NEC:**  
 70 W: ①  
 Class I, Division 2, Groups A, B, C, D  
 Class II, Division 1 and 2, Groups E ②, F  
 100 W, 150 W: ①  
 Class I, Division 2, Groups A, B, C, D

**NEC:**  
**With Refractor (NEMA V):**  
 35 W, 50 W, 70 W, 100 W:  
 Class I, Division 2, Groups A, B, C, D  
 Class II, Division 1 and 2, Groups E ②, F, G  
 Class III

**NEC:**  
 150 W: ①  
 Class I, Division 2, Groups A, B, C, D

### Thermal Suitability

Table at below shows maximum operating temperatures of Mercmaster Jr. fixtures for Class I, Division 2, in a 40 °C (104 °F) ambient. Per NEC 500.8(B)(4), the temperature marking on fixtures shall not exceed the ignition temperature of the specific gas or vapor to be encountered. NEC 500.8(B)(4) states that these markings (Identification Numbers) "marked on equipment nameplates shall be in accordance with Table NEC 500.8(C)." This NEC table is duplicated, as it applies to Appleton Mercmaster Jr. fixtures, in the table below.

As shown, the higher the Temperature Identification Number, the cooler the fixture operates. Keep this in mind when selecting a fixture for a specific gas or vapor.

### Example:

- Gasoline (56-60 octane)
  - Fixture with Globe and Reflector
- To determine Mercmaster Jr. thermal suitability for the above example:
- Check the Thermal Suitability on the following page for ignition temperature of gas or vapor to be encountered. It reveals that 56-60 octane gasoline has an ignition temperature of 280 °C (536 °F).
  - Look in table below for fixtures under "With Globe and Reflector" that do not exceed the 280 °C (536 °F) ignition temperature of the gasoline.
  - Select the best fixture for your purpose. The 35 W, 50 W, 70 W or 100 W fixture with globe and reflector is acceptable because none of these fixture lamp surfaces exceed the 280 °C (536 °F) ignition temperature of the gasoline.

### Temperature Identification Numbers

Lamp Watts	Class I, Division 2, Groups A, B, C and D				Class II, Division 1 and 2, Groups E, F and G		
	With Globe or with Globe and Reflector		With 8" Refractor		With Globe, with Globe and Reflector, or with 8" Refractor		
	Name-plate Marking	Temperature Range °C (°F)	Nameplate Marking	Temperature Range °C (°F)	Nameplate Marking	Temperature Range °C (°F)	Groups
35	T4	121-135 (250-275)	T4	121-135 (250-275)	T4C	101-120 (214-248)	E, F, G
50	T2D	201-215 (394-419)	T3	181-200 (358-392)	T3C	136-160 (277-320)	E, F, G
70	T2B	231-260 (448-500)	T2C	216-230 (421-446)	T3B	161-165 (322-329)	E, F, G ③
100	T2A	261-280 (502-536)	T2B	231-260 (448-500)	—	—	E, F, G ④
150	T2	281-300 (538-572)	T2A	261-280 (502-536)	—	—	—

### Ambient Suitability of Mercmaster Jr. Fixtures

All fixtures suitable for operation at -40 °C (-40 °F).

35W	50W	70W	100W	150W
40 °C (104 °F)	40 °C (104 °F)	25 °C (77 °F)	25 °C (77 °F)	25 °C (77 °F)

### Electrical Specifications (Reactor Ballasts)

Lamp Watts	Line Voltage 60 Hz	Line Current in Amperes		Input Watts
		Starting HPF	Operating HPF	
35	120	0.41	0.38	43
50	120	0.62	0.56	60
70	120	0.70	0.73	82
100	120	1.10	1.00	115
150	120	1.70	1.50	170

### Retrofits Incandescent Fixtures Easily and Quickly

- 35 W HPS Comparable to 100/150 W Incandescent Lamp
- 50 W HPS Comparable to 200 W Incandescent Lamp
- 70 W HPS Comparable to 300 W Incandescent Lamp
- 100 W HPS Comparable to 1.5 300 W Incandescent Lamp ⑤
- 150 W HPS Comparable to 2.5 300 W Incandescent Lamp ⑤

### Optional Factory-Installed Fuses – Add Suffix -F

Available as a factory installed item with Mercmaster Jr. fixtures.

① The MJBW Wall Mount Fixture is suitable for Class I, Division 2, Groups A, B, C and D only.  
 ② Per NEC 500.6(1), there is no such classification as Class II, Division 2, Group E.  
 ③ 70W suitable for Groups E and F with globe; suitable for Groups E, F, and G with refractor.  
 ④ 100W suitable for Groups E, F and G with refractor only.  
 ⑤ These are guidelines only. Light distribution and other factors must be taken into consideration.

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## 35 W, 50 W, 70 W, 100 W, 150 W HPS

Complete with Mounting Hood. Medium Base Socket. High Power Factor (Min. P.F. 90%). Integral Ballast for 120 V Line Operation.

**NEC:**

*With Globe:*

35 W, 50 W:

Class I, Division 2, Groups A, B, C, D

Class II, Division 1 and 2, Groups E ②, F, G

Class III

**NEC:**

70 W: ①

Class I, Division 2, Groups A, B, C, D

Class II, Division 1 and 2, Groups E ②, F

100 W, 150 W: ①

Class I, Division 2, Groups A, B, C, D

**NEC:**

*With Refractor (NEMA V):*

35 W, 50 W, 70 W, 100 W:

Class I, Division 2, Groups A, B, C, D











Class II, Division 1 and 2, Groups E ②, F, G

Class III

**NEC:**

150 W: ①

Class I, Division 2, Groups A, B, C, D

With Globe, Less Guard	With Refractor (NEMA V)	Lamp Watts	ANSI Lamp Type	Hub Size (Inches)	Catalog Number ⑥	
Pendant — Aluminum mounting hood and ballast body. One Hub, Rigid or Flexible Mounting					With Globe, Less Guard	With Refractor (NEMA V)
		35	S76	3/4 1	MA3575-120 MA3510-120	MA3575J-120 MA3510J-120
		50	S68	3/4 1	MA5075-120 MA5010-120	MA5075J-120 MA5010J-120
		70	S62	3/4 1	MA7075-120 MA7010-120	MA7075J-120 MA7010J-120
		100	S54	3/4 1	MA1075-120 MA1010-120	MA1075J-120 MA1010J-120
		150	S55	3/4 1	MA1575-120 MA1510-120	MA1575J-120 MA1510J-120
<b>Ceiling — Aluminum mounting hood and ballast body. Five Hubs, Four Close-Up Plugs</b>						
		35	S76	3/4 1	MC3575-120 MC3510-120	MC3575J-120 MC3510J-120
		50	S68	3/4 1	MC5075-120 MC5010-120	MC5075J-120 MC5010J-120
		70	S62	3/4 1	MC7075-120 MC7010-120	MC7075J-120 MC7010J-120
		100	S54	3/4 1	MC1075-120 MC1010-120	MC1075J-120 MC1010J-120
		150	S55	3/4 1	MC1575-120 MC1510-120	MC1575J-120 MC1510J-120
<b>Wall ⑥ — Malleable iron mounting hood and aluminum ballast body. Gasket and screws furnished with fixture. Fits GSU Cast Boxes</b>						
		35	S76	—	MGSW35-120	MGSW35J-120
		50	S68	—	MGSW50-120	MGSW50J-120
		70	S62	—	MGSW70-120	MGSW70J-120
		100	S54	—	MGSW10-120	MGSW10J-120
		150	S55	—	MGSW15-120	MGSW15J-120
<b>Wall ⑥⑥ — Class I, Division 2 only. Aluminum mounting hood and ballast body. Gasket and screws furnished with fixture. Fits JBX Cast Boxes</b>						
		35	S76	—	MJBW35-120	MJBW35J-120
		50	S68	—	MJBW50-120	MJBW50J-120
		70	S62	—	MJBW70-120	MJBW70J-120
		100	S54	—	MJBW10-120	MJBW10J-120
		150	S55	—	MJBW15-120	MJBW15J-120
<b>25° Stanchion ⑥ — Aluminum mounting hood and ballast body. One hub</b>						
		35	S76	1-1/4 1-1/2	MS35125-120 MS35150-120	MS35125J-120 MS35150J-120
		50	S68	1-1/4 1-1/2	MS50125-120 MS50150-120	MS50125J-120 MS50150J-120
		70	S62	1-1/2 1-1/2	MS70125-120 MS70150-120	MS70125J-120 MS70150J-120
		100	S54	1-1/4 1-1/2	MS10125-120 MS10150-120	MS10125J-120 MS10150J-120
		150	S55	1-1/4 1-1/2	MS15125-120 MS15150-120	MS15125J-120 MS15150J-120

① Per NEC 500.6(1), there is no such classification as Class II, Division 2, Group E.

② The MJBW Wall Mount Fixture is suitable for Class I, Division 2, Groups A, B, C and D only.

③ All fixtures on this page comply with UL Standard 844 except MJBW Wall Mount Fixture, which is not suitable for Class II, Division 1.

④ Using cast outlet box with Wall Mount Fixture provides the following clearances: for the globe – JBX box, 1-5/8" from wall; GSU box, 2" from wall; for the refractor – JBX box, 15/16" from wall; GSW box, 1-5/16" from wall. Reflectors cannot be used with the wall mount fixtures.

⑤ Stanchion Mount can be used with standard dome or 30° angle reflector.



⑥ To order fixture with guard, add -G before voltage (example: MA3575G-120).


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<p><b>NEC:</b>  <b>With Globe:</b>            35 W, 50 W:            Class I, Division 2, Groups A, B, C, D            Class II, Division 1 and 2, Groups E ②, F, G            Class III</p>	<p><b>NEC:</b>            70 W: ①            Class I, Division 2, Groups A, B, C, D            Class II, Division 1 and 2, Groups E ②, F            100 W, 150 W: ①            Class I, Division 2, Groups A, B, C, D</p>	<p><b>NEC:</b>  <b>With Refractor (NEMA V):</b>            35 W, 50 W, 70 W, 100 W:            Class I, Division 2, Groups A, B, C, D            Class II, Division 1 and 2, Groups E ②, F, G            Class III</p>	<p><b>NEC:</b>            150 W: ①            Class I, Division 2, Groups A, B, C, D</p>
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With Globe	With 8" Refractor	Description	Lamp Watts	ANSI Lamp Type	Catalog Number	
					With Globe ③	With 8" Refractor
<b>Outlet Box Fixture</b>						
		Aluminum ballast housing, complete with aluminum mounting hood. Epoxy clad.	35	S76	<b>MOB35-120</b>	<b>MOB35J-120</b>
			50	S68	<b>MOB50-120</b>	<b>MOB50J-120</b>
		Use with SEH and 3-1/4" or 4" Octagonal Outlet Box. Fixture furnished with mounting plate and gasket. Octagonal boxes not suitable for classified locations.	70	S62	<b>MOB70-120</b>	<b>MOB70J-120</b>
			100	S54	<b>MOB10-120</b>	<b>MOB10J-120</b>
			150	S55	<b>MOB15-120</b>	<b>MOB15J-120</b>

	Lamp Watts	ANSI Lamp Type	Catalog Number
<b>Fixture Units</b>			
	S76	35	<b>MUL35-120</b>
	S68	50	<b>MUL50-120</b>
	S62	70	<b>MUL70-120</b>
	S54	100	<b>MUL100-120</b>
	S55	150	<b>MUL150-120</b>

<b>Ballast Bodies</b>			
	S76	35	<b>MBL35-120</b>
	S68	50	<b>MBL50-120</b>
	S62	70	<b>MBL70-120</b>
	S54	100	<b>MBL100-120</b>
	S55	150	<b>MBL150-120</b>

① Per NEC 500.6(1), there is no such classification as Class II, Division 2, Group E.  
 ② The MJBW Wall Mount Fixture is suitable for Class I, Division 2, Groups A, B, C and D only.  
 ③ Order JBX or GSU box on following page.

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*With Globe:*

35 W, 50 W:

Class I, Division 2, Groups A, B, C, D

Class II, Division 1 and 2, Groups E ②, F, G

Class III

**NEC:**

70 W: ①

Class I, Division 2, Groups A, B, C, D

Class II, Division 1 and 2, Groups E ②, F

100 W, 150 W: ①

Class I, Division 2, Groups A, B, C, D

**NEC:**

*With Refractor (NEMA V):*

35 W, 50 W, 70 W, 100 W:

Class I, Division 2, Groups A, B, C, D

Class II, Division 1 and 2, Groups E ②, F, G














Class III

**NEC:**

150 W: ①

Class I, Division 2, Groups A, B, C, D

### Mounting Hoods

	Hub Size (Inches)	Catalog Number	
		Aluminum	Malleable Iron
<b>Pendant Mounting</b> Furnished with connection block, gasket and screws			
 VMA	1/2	—	VA50
 VA	3/4	VMA75	VA75
	1	VMA100	VA100
<b>Ceiling Mounting</b> Five Hubs. Furnished with connection block, gasket, screws and four close-up plugs			
 VXHA	1/2	VXHA50-A	VXHA50
	3/4	VXHA75-A	VXHA75
	1	VXHA100-A	VXHA100
<b>Cast/Outlet Box Mounting</b> Furnished with connection block, mounting plate and gasket. Octagonal outlet box not suitable for classified locations. Fits SEH and 3-1/4" or 4" Octagonal Box ③			
 OBVW	Wall ⑥	OBVW1-A	OBVW1
 OBV	Ceiling	OBV1-A	OBV1
<b>GS Round Base – Fits GSU Cast Boxes</b> ④ ⑤ Furnished with connection block, gasket and screws			
 GSW	Wall ⑥	—	GSW2
 GS	Ceiling	—	GS2
<b>JB Round Base – Fits JBX Cast Boxes</b> ④ ⑤ Furnished with connection block, gasket and screws			
 JBW	Wall ⑥	JBW1-A	JBW1
 JB	Ceiling	JB1-A	JB1
<b>Stanchion Mounting</b> ⑦ 25° Stanchion furnished with connection block and screws.			
 MS	1-1/4	MS-125	—
	1-1/2	MS-150	—
<b>JBX Cast Conduit Outlet Boxes</b> ④			
 JBX	Aluminum. 1-5/16" inside depth. Four tapped openings, two close-up plugs and mounting lugs. Use with JBW wall mount fixture and JB round base mounting hoods	1/2	JBX50L-A
		3/4	JBX75L-A
<b>GSU Cast Conduit Outlet Box (Form 20)</b> ⑤			
 GSU-20	Malleable iron. 1-3/4" inside depth. Four 3/4" hubs with four 3/4" to 1/2" reducers, and three 1/2" close-up plugs. Use with GSW wall mount fixture and GS round base mounting hoods	1/2 or 3/4	GSU-20
 GSU-100		1	GSU-100

① The MJBW Wall Mount Fixture is suitable for Class I, Division 2, Groups A, B, C and D only.

② Per NEC 500.6(1), there is no such classification as Class II, Division 2, Group E.

③ Order SEH box from catalog section A and octagonal box from Section OB. To order fixture with guard, add G before voltage (example: MOB35G-120).

④ Order JBX below. Using JBX Box with these fixtures and mounting hoods provides 15/16" clearance from wall with refractor and 1-5/8" clearance from wall with globe.

⑤ Order GSU below. Using GSU Box with these fixtures and mounting hoods provides 1-5/16" clearance from wall with refractor and 2" clearance from wall with globe.

⑥ Reflectors cannot be used with wall mount fixtures. See dimensions for globe or refractor clearance from wall for these fixtures.

⑦ Stanchion mounting hood can be used with standard dome or 30° angle reflector.

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	Description	Catalog Number
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### Globes – 35 W-150 W



VPGL-1HR



VPGL-2PL

Clear Heat-Resistant Prismatic Glass  
 Polycarbonate (100W lamp max.) ④

VPGL-1HR  
 VPGL-2PL

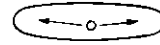
Description	Light Distribution	IES/NEMA Distribution Curves	Catalog Number
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### Refractors – 35 W-150 W



Closed Prismatic Glass 8" Refractors

NEMA Type II



LPJR-2CG

NEMA Type V



LPJR-5CG

Description	Catalog Number	
	Porcelain	Polyester

### Reflectors – 35 W-150 W ③



Standard



30° Angle

Standard (porcelain, 16" dia.; polyester, 16-1/4" dia.)  
 30° Angle (porcelain, 12" dia.; polyester, 14-3/8" dia.)

LPR-25ST  
 LPR-25AN

LPRP-25ST  
 LPRP-25AN

Description	Catalog Number
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### Guards – 35 W-150 W



VPGU-1



LPBG-8

Copperfree Aluminum Guard  
 Steel Guard for 8" Refractors

VPGU-1  
 LPBG-8

### Socket



35 W-150 W (Medium Base)

JRS-100

### Gasket



Globe Gasket, Silicone Rubber – 35W-150W

VPGL-GK

① The MJBW Wall Mount Fixture is suitable for Class I, Division 2, Groups A, B, C and D only.  
 ② Per NEC 500.6(1), there is no such classification as Class II, Division 2, Group E.  
 ③ V-51 reflectors cannot be used with Mercmaster Jr. Fixtures.  
 ④ Do not use Polycarbonate Globes in ambients exceeding +25 °C (+77 °F). These globes for burning in vertical base-up position only.

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35 W, 50 W, 70 W, 100 W, 150 W

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**NEC:**

*With Globe:*

35 W, 50 W:

Class I, Division 2, Groups A, B, C, D

Class II, Division 1 and 2, Groups E ②, F, G

Class III

**NEC:**

70 W: ①

Class I, Division 2, Groups A, B, C, D

Class II, Division 1 and 2, Groups E ②, F

100 W, 150 W: ①

Class I, Division 2, Groups A, B, C, D

**NEC:**

*With Refractor (NEMA V):*

35 W, 50 W, 70 W, 100 W:

Class I, Division 2, Groups A, B, C, D

Class II, Division 1 and 2, Groups E ②, F, G

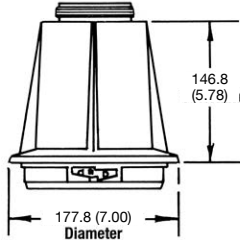
Class III

**NEC:**

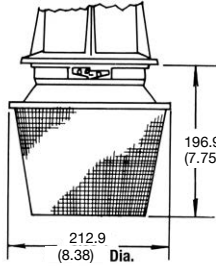
150 W: ①

Class I, Division 2, Groups A, B, C, D

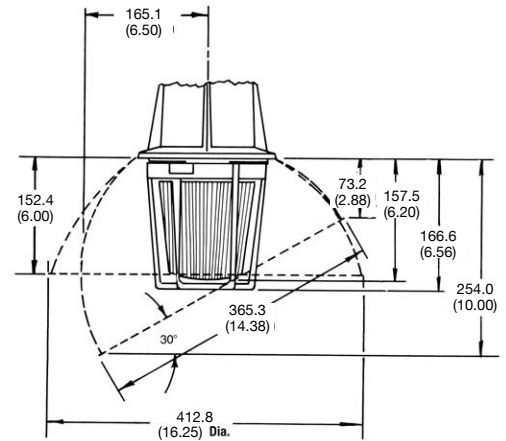
Dimensions in Millimeters (Inches)



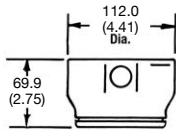
MBL Ballast Body



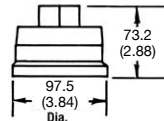
Fixture with 8" Refractor



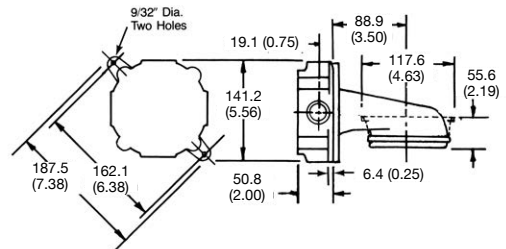
Fixture with Guard and Polyester Reflectors



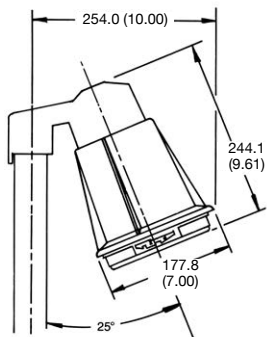
VXHA Ceiling Mount



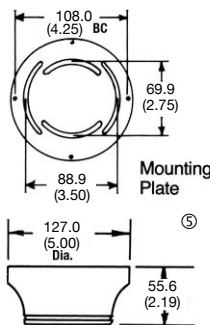
VMA Pendant Mount



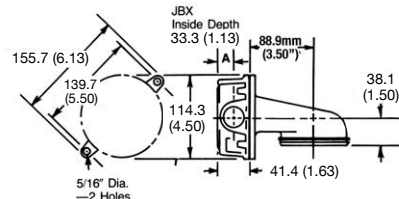
GSW Wall Mount ③ and GS Ceiling Mount with GSU Box ④



Stanchion Mount ⑥



OBV Outlet Box Mount and Mounting Plate



JBW Wall Mount ③ with JBX Box ④

① The MJBW Wall Mount Fixture is suitable for Class I, Division 2, Groups A, B, C and D only.

② Per NEC 500.6(1), there is no such classification as Class II, Division 2, Group E.

③ Mounting holes 9/32" diameter on 5-1/8" centers. Mounting plate is a separate piece furnished with outlet box mount fixture. The 2.75" dimension is for mounting on 3-1/4" octagonal boxes and the 3.50" dimension is for 4" octagonal boxes.

④ Wall mount fixtures provide the following wall clearances: with GSU box - 2" from wall with globe and 1-5/16" from wall with refractor; with JBX box - 1-5/8" from wall with globe and 15/16" from wall with refractor. Reflectors cannot be used with wall mount fixtures.

⑤ Order GSU or JBX box separately.

⑥ Standard dome or 30° angle reflectors can be used with stanchion mount.