

3L 50-175W VMV Series Champ® H.I.D. Luminaires

- Cl. I, Div 2, Groups A, B, C, D
- Restricted Breathing Cl. I, Div 2 & Zone 2 (Suffix S826)
- Certified for IEC Zone 2 (Suffix S826TB)
- Cl. II Groups E, F, G, Cl. III & Simultaneous Presence (HPS 50W, 70W)
- Marine & Wet Locations
- 3, 3R, 4, 4X; IP66

Application:

VMV series *Champ* luminaires are used:

- in manufacturing plants, refineries, chemical, petrochemical, and other industrial process facilities, waste or sewage treatment facilities, offshore, dockside, and harbor installations, and other heavy industrial applications
- in areas in which ignitable concentrations of flammable gases or vapors will be present only due to abnormal, unusual, or accidental conditions
- where combustible dusts are present
- in marine applications where water spray and corrosive atmospheres are considerations
- in elevated ambient temperatures often found in industrial applications
- in installations where moisture, dirt, dust, vibration, corrosion, and rough usage are problems
- wherever the damaging effects of water, wind, snow, sleet, hot sun, or any combination of these elements are found

Features:

- Compact, lightweight design is ideal for medium and low mounting heights
- Cast copper-free aluminum construction (less than 0.4 of 1% copper) and epoxy powder finish provide excellent resistance to corrosion
- Seven mounting arrangements to suit any lighting layout – pendant, flexible pendant, ceiling, wall bracket, angle stanchion, straight stanchion, and quad-mount
- Wide range of light sources and wattages to meet specifiers' needs: 50, 70, 100, and 150 watt high pressure sodium (HPS); 100, and 175 watt mercury vapor (MV); 70, 100, 175 watt metal halide (MH)
- Hinged ballast housing for ease of installation and maintenance
- Wide choice of photometric distributions. Glass globes, refractors and compact refractors available for all wattage luminaires; plastic refractors (for non-hazardous applications only) for 50-100 watt luminaires
- All luminaires are designed to perform in a 40°C ambient temperature. Selected luminaires are suitable for ambient temperatures up to 65°C.
- Superior gasketing seals between the mounting module, housing, and optical assembly for optimum performance in wet and corrosive environments
- Hubs with an integral conduit stop and bushing to help prevent damage to field wiring during installation
- Low ambient capability to (-40°C)
- Dome and 30° angle reflectors made of bright white *Krydon*® material provide superior reflectivity, with twist-on feature requiring no tools or additional hardware. Will not chip, peel, dent, rust, or corrode
- Grounding wire for safety
- High power factor ballasts (Min P.F. 90%) and available in a variety of voltages to meet local area requirements.
- Mogul base porcelain lamp socket



Standard Materials:

- Ballast housings and mountings – copper free aluminum (less than 0.4 of 1%)
- Exterior hardware – stainless steel
- Reflectors (dome and angle) – *Krydon* fiberglass-reinforced polyester material
- Globes – heat and impact resistant internally fluted glass
- Refractors – glass (50-175 watts); plastic (50-100 watts), for non-hazardous applications.
- Guards: globe – copper-free aluminum refractor – stainless steel

Standard Finishes:

- Copper-free aluminum – epoxy powder coat
- *Krydon* material – high reflectance white
- Stainless steel – natural

Electrical Ratings:

- 120, 208, 240, 277, 347, 480, 600, Multi-tap* (120, 208, 240 and 277)
- 50 to 150W HPS; 100 to 175W MV; 70 to 175W MH

Certifications and

Compliances:

- NEC & CEC:
 - Class I, Division 2, Groups A,B,C,D
 - HPS 50W, 70W - Class II, Class III & Simultaneous Presence (Class I, Division 2 and Class II)
 - Class I Zone 2
- IEC:
 - Zone 2 Ex nR IIC
- UL Standards:
 - 844, 2279 Hazardous (Classified) Locations
 - 1598 Luminaires
 - 1598A Marine Locations
- CSA Standards
 - C22.2 No. 137
- IEC Standards
 - 60079-15
- ◆ VMV Series now available with Champ Induction Lighting System. See Section 5L.

Options:

The following special options are available from the factory by adding suffix to luminaire Cat. No.:

- | Description | Suffix to be added to Cat. No. |
|--|--------------------------------|
| • Factory Sealed Champs | S865† |
| - Class I Division 2 & Zone 2 | |
| - Provides T3 code without conduit or cable seals | |
| Restricted breathing/Non-sparking | |
| • Restricted Breathing Construction. . . | S826† |
| - Class I Division 2 & Zone 2 Suitability | |
| - Cooler Operating Temperatures (T-Numbers) | |
| • Certified for IEC Zone 2 | S826TB |
| - Furnished with terminal block, crimp terminals and dedicated voltage ballasts (no MT, DT or TT) | |
| • Fused – to protect ballast and capacitors against abnormal line conditions | S658* |
| (Not for use in Canada) | |
| • Ballast-Gard™ starter cut-out switch – prevents starter pulsing when lamp is cycling or inoperative; prolongs ballast and ignitor life. Available for use with 50-150W LX HPS only | BG |
| • Instant restrike – enables a hot HPS lamp to immediately restrike after a momentary loss of arc due to voltage fluctuation or power outage. It has no effect on the warm-up period of cold lamps. Available for use with 50-150W LX HPS only | IR |
| • Quartz auxiliary lighting for use with R2 & R5 large glass refractors only! – comes to full brightness immediately and remains lit until the HID lamp attains 60-70% of full illumination. For <i>non-hazardous</i> locations only | QTZ |
| • Stainless steel insert - top hat with stainless steel threaded insert to attach ballast housing | S806 |
| • TEFLON coating on globe for increased shatter protection. | S808 |
| T-Numbers not affected | |
| • Factory assembled with H.I.D. lamps installed for additional labor savings. | FA |

(Note: BG and IR options cannot be used together. IR and QTZ options cannot be used together.)

Accessories:

- See pages 775 and 776 for complete listing.

TEFLON is a registered trademark of E.I. duPont Co.

* When ordering fuses for luminaires, option S658, you must specify the operating voltage. S658 cannot be ordered with /MT in the catalog number.

† For detailed information on Restricted Breathing and Non-Sparking, see page 32 of the Cooper Crouse-Hinds 2005 Code Digest.

50-150W High Pressure Sodium VMV Series

Champ® H.I.D. Luminaires


- Cl. I, Div 2, Groups A, B, C, D
- Restricted Breathing CL. I, Div 2 & Zone 2 (Suffix S826)
- Certified for IEC Zone 2 (Suffix S826TB)
- CL. II Groups E, F, G, CL. III & Simultaneous Presence (50W, 70W)
- Marine & Wet Locations
- 3, 3R, 4, 4X; IP66

3L



See Notes 1 (to specify voltage), 2 and 3. For guards and other optics see VMV Luminaires – Ordering by Components section.

BASIC CATALOG NUMBER

Mounting Style	Hub Size	Lamp Watts	With G24 Globe and P21 Guard	With G241 Type I Compact Refractor	With G245 Type V Compact Refractor	With R5 Glass Refractor	
	Pendant Mount	3/4	50	VMVS2A050GP	VMVS2A050G241	VMVS2A050G245	VMVS2A050R5
		1		VMVS3A050GP	VMVS3A050G241	VMVS3A050G245	VMVS3A050R5
	Flexible Pendant Mount	3/4	70	VMVS2A070GP ✓	VMVS2A070G241 ✓	VMVS2A070G245 ✓	VMVS2A070R5 ✓
		1		VMVS3A070GP ✓	VMVS3A070G241 ✓	VMVS3A070G245 ✓	VMVS3A070R5 ✓
		3/4	100	VMVS2A100GP ✓	VMVS2A100G241 ✓	VMVS2A100G245 ✓	VMVS2A100R5 ✓
		1		VMVS3A100GP ✓	VMVS3A100G241 ✓	VMVS3A100G245 ✓	VMVS3A100R5 ✓
Ceiling Mount Thru-Feed	3/4	150	VMVS2A150GP ✓	VMVS2A150G241 ✓	VMVS2A150G245 ✓	VMVS2A150R5 ✓	
	1		VMVS3A150GP ✓	VMVS3A150G241 ✓	VMVS3A150G245 ✓	VMVS3A150R5 ✓	
	3/4	50	VMVS2C050GP	VMVS2C050G241	VMVS2C050G245	VMVS2C050R5	
	1		VMVS3C050GP	VMVS3C050G241	VMVS3C050G245	VMVS3C050R5	
Wall Mount Thru-Feed	3/4	70	VMVS2C070GP ✓	VMVS2C070G241 ✓	VMVS2C070G245 ✓	VMVS2C070R5 ✓	
	1		VMVS3C070GP ✓	VMVS3C070G241 ✓	VMVS3C070G245 ✓	VMVS3C070R5 ✓	
	3/4	100	VMVS2C100GP ✓	VMVS2C100G241 ✓	VMVS2C100G245 ✓	VMVS2C100R5 ✓	
	1		VMVS3C100GP ✓	VMVS3C100G241 ✓	VMVS3C100G245 ✓	VMVS3C100R5 ✓	
	3/4	150	VMVS2C150GP ✓	VMVS2C150G241 ✓	VMVS2C150G245 ✓	VMVS2C150R5 ✓	
	1		VMVS3C150GP ✓	VMVS3C150G241 ✓	VMVS3C150G245 ✓	VMVS3C150R5 ✓	
Quad-Mount Pendant, Adjustable Thru-Feed, 25° Angle, 12½° Angle	3/4	50	VMVS2TW050GP	VMVS2TW050G241	VMVS2TW050G245	VMVS2TW050R5	
	1		VMVS3TW050GP	VMVS3TW050G241	VMVS3TW050G245	VMVS3TW050R5	
	3/4	70	VMVS2TW070GP ✓	VMVS2TW070G241 ✓	VMVS2TW070G245 ✓	VMVS2TW070R5 ✓	
	1		VMVS3TW070GP ✓	VMVS3TW070G241 ✓	VMVS3TW070G245 ✓	VMVS3TW070R5 ✓	
	3/4	100	VMVS2TW100GP ✓	VMVS2TW100G241 ✓	VMVS2TW100G245 ✓	VMVS2TW100R5 ✓	
	1		VMVS3TW100GP ✓	VMVS3TW100G241 ✓	VMVS3TW100G245 ✓	VMVS3TW100R5 ✓	
Stanchion Mount 25° Angle	3/4	150	VMVS2TW150GP ✓	VMVS2TW150G241 ✓	VMVS2TW150G245 ✓	VMVS2TW150R5 ✓	
	1		VMVS3TW150GP ✓	VMVS3TW150G241 ✓	VMVS3TW150G245 ✓	VMVS3TW150R5 ✓	
	1½	50	VMVSJ050GP	VMVSJ050G241	VMVSJ050G245	VMVSJ050R5	
	1½	70	VMVSJ070GP ✓	VMVSJ070G241 ✓	VMVSJ070G245 ✓	VMVSJ070R5 ✓	
Stanchion Mount Straight	1½	100	VMVSJ100GP ✓	VMVSJ100G241 ✓	VMVSJ100G245 ✓	VMVSJ100R5 ✓	
	1½	150	VMVSJ150GP ✓	VMVSJ150G241 ✓	VMVSJ150G245 ✓	VMVSJ150R5 ✓	
	1½	50	VMVSP050GP	VMVSP050G241	VMVSP050G245	VMVSP050R5	
	1½	70	VMVSP070GP ✓	VMVSP070G241 ✓	VMVSP070G245 ✓	VMVSP070R5 ✓	
Stanchion Mount Straight	1½	100	VMVSP100GP ✓	VMVSP100G241 ✓	VMVSP100G245 ✓	VMVSP100R5 ✓	
	1½	150	VMVSP150GP ✓	VMVSP150G241 ✓	VMVSP150G245 ✓	VMVSP150R5 ✓	

Standard Voltage Ballasts - 60Hz

Voltage Suffix	NEC/UL			CEC/CSA (cUL)			
	Multi Tap /MT	Dual Tap /DT	120V /120	480V /480	Tri Tap /TT	Dual Tap /DT	120V /120
1.							

(Multi Tap and Dual Tap ballasts are prewired for 277V)

Optional Voltage Ballasts - 50 or 60Hz

Voltage Suffix	CEC/CSA (cUL) - CWI Isolated Ballasts				EXPORT			
	208V CWI /208CWI	240V CWI /240CWI	480V CWI /480CWI	600V CWI /600CWI	220V 60Hz /220	220V 50Hz /220 50	230V 50Hz /230 50	240V 50Hz /240 50
2.								

2. 150W HPS Luminaires, 55V Lamps is standard; for 100V lamps - Add suffix "CE". 50W HPS Luminaire is dual tap only.

3. Options - Add the required options suffixes from page 724, in Alpha-numeric order.

✓ - available with Lightning Service™ delivery. See Section G for complete details.

3L H.I.D. Lighting

3L




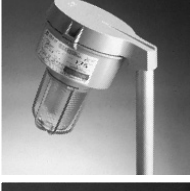

150-175W Pulse Start Metal Halide VMV Series

Champ® H.I.D. Luminaires

- Cl. I, Div 2, Groups A, B, C, D
- Restricted Breathing Cl. I, Div 2 & Zone 2 (Suffix S826)
- Certified for IEC Zone 2 (Suffix S826TB)
- Marine & Wet Locations
- 3, 3R, 4, 4X; IP66

See Note 1 (to specify voltage). For guards and other optics see VMV Luminaires – Ordering by Components section.

BASIC CATALOG NUMBER

Mounting Style	Hub Size	Lamp Watts	With G24 Globe and P21 Guard	With G245 Type V Compact Refractor	With R5 Glass Refractor	
	Pendant Mount	¾	150	VMVM2A150GP-S828	VMVM2A150G245-S828	VMVM2A150R5-S828
		1	175	VMVM3A150GP-S828	VMVM3A150G245-S828	VMVM3A150R5-S828
	Flexible Pendant Mount	¾	150	VMVM2HA150GP-S828	VMVM2HA150G245-S828	VMVM2HA150R5-S828
		¾	175	VMVM2HA175GP-S828	VMVM2HA175G245-S828	VMVM2HA175R5-S828
	Ceiling Mount Thru-Feed	¾	150	VMVM2C150GP-S828	VMVM2C150G245-S828	VMVM2C150R5-S828
		1	175	VMVM3C150GP-S828	VMVM3C150G245-S828	VMVM3C150R5-S828
	Wall Mount Thru-Feed	¾	150	VMVM2TW150GP-S828	VMVM2TW150G245-S828	VMVM2TW150R5-S828
		1	175	VMVM3TW150GP-S828	VMVM3TW150G245-S828	VMVM3TW150R5-S828
	Wall Mount Thru-Feed	¾	150	VMVM2TW150GP-S828	VMVM2TW150G245-S828	VMVM2TW150R5-S828
		1	175	VMVM3TW150GP-S828	VMVM3TW150G245-S828	VMVM3TW150R5-S828
	Quad-Mount Pendant, Adjustable Thru-Feed, 25° Angle, 12½° Angle	¾	150	VMVM25Q150GP-S828	VMVM25Q150G245-S828	VMVM25Q150R5-S828
		¾	175	VMVM25Q175GP-S828	VMVM25Q175G245-S828	VMVM25Q175R5-S828
	Stanchion Mount 25° Angle	1½	150	VMVMJ150GP-S828	VMVMJ150G245-S828	VMVMJ150R5-S828
		1½	175	VMVMJ175GP-S828	VMVMJ175G245-S828	VMVMJ175R5-S828
	Stanchion Mount Straight	1½	150	VMVMP150GP-S828	VMVMP150G245-S828	VMVMP150R5-S828
		1½	175	VMVMP175GP-S828	VMVMP175G245-S828	VMVMP175R5-S828

1.

Voltage Suffix	Standard Voltage Ballasts - 60Hz			CEC/CSA (cUL)	
	Multi Tap /MT	120V /120	480V /480	Tri Tap /TT	120V /120
	Optional Voltage Ballasts - 50 or 60Hz				
	EXPORT				
Voltage Suffix	220V 60Hz /220	220V 50Hz /220 50	230V 50Hz /230 50	240V 50Hz /240 50	

3L H.I.D. Lighting

100-175W Metal Halide VMV Series

Champ® H.I.D. Luminaires








- Cl. I, Div 2, Groups A, B, C, D
- Restricted Breathing Cl. I, Div 2 & Zone 2 (Suffix S826)
- Certified for IEC Zone 2 (Suffix S826TB)
- Marine & Wet Locations
- 3, 3R, 4, 4X; IP66

3L



See Note 1 (to specify voltage), 2 and 3. For guards and other optics see VMV Luminaires – Ordering by Components section.

BASIC CATALOG NUMBER

Mounting Style	Hub Size	Lamp Watts	With G24 Globe and P21 Guard	With G241 Type I Compact Refractor	With G245 Type V Compact Refractor	With R5 Glass Refractor
	¾	70	VMVM2A070GP	VMVM2A070G241	VMVM2A070G245	VMVM2A070R5
		1	VMVM3A070GP	VMVM3A070G241	VMVM3A070G245	VMVM3A070R5
	1	100	VMVM2A100GP ✓	VMVM2A100G241 ✓	VMVM2A100G245 ✓	VMVM2A100R5 ✓
		¾	175	VMVM3A100GP ✓	VMVM3A100G241 ✓	VMVM3A100G245 ✓
	¾	70	VMVM2A175GP ✓	VMVM2A175G241 ✓	VMVM2A175G245 ✓	VMVM2A175R5 ✓
		1	175	VMVM3A175GP ✓	VMVM3A175G241 ✓	VMVM3A175G245 ✓
	¾	70	VMVM2HA070GP	VMVM2HA070G241	VMVM2HA070G245	VMVM2HA070R5
	¾	100	VMVM2HA100GP ✓	VMVM2HA100G241 ✓	VMVM2HA100G245 ✓	VMVM2HA100R5 ✓
	¾	175	VMVM2HA175GP ✓	VMVM2HA175G241 ✓	VMVM2HA175G245 ✓	VMVM2HA175R5 ✓
	¾	70	VMVM2C070GP	VMVM2C070G241	VMVM2C070G245	VMVM2C070R5
		1	VMVM3C070GP	VMVM3C070G241	VMVM3C070G245	VMVM3C070R5
	¾	100	VMVM2C100GP ✓	VMVM2C100G241 ✓	VMVM2C100G245 ✓	VMVM2C100R5 ✓
		1	175	VMVM3C100GP ✓	VMVM3C100G241 ✓	VMVM3C100G245 ✓
	¾	70	VMVM2C175GP ✓	VMVM2C175G241 ✓	VMVM2C175G245 ✓	VMVM2C175R5 ✓
		1	175	VMVM3C175GP ✓	VMVM3C175G241 ✓	VMVM3C175G245 ✓
	¾	70	VMVM2TW070GP	VMVM2TW070G241	VMVM2TW070G245	VMVM2TW070R5
		1	VMVM3TW070GP	VMVM3TW070G241	VMVM3TW070G245	VMVM3TW070R5
	¾	100	VMVM2TW100GP ✓	VMVM2TW100G241 ✓	VMVM2TW100G245 ✓	VMVM2TW100R5 ✓
		1	175	VMVM3TW100GP ✓	VMVM3TW100G241 ✓	VMVM3TW100G245 ✓
	¾	70	VMVM2TW175GP ✓	VMVM2TW175G241 ✓	VMVM2TW175G245 ✓	VMVM2TW175R5 ✓
		1	175	VMVM3TW175GP ✓	VMVM3TW175G241 ✓	VMVM3TW175G245 ✓
	¾	70	VMVM25Q070GP	VMVM25Q070G241	VMVM25Q070G245	VMVM25Q070R5
	¾	100	VMVM25Q100GP	VMVM25Q100G241	VMVM25Q100G245	VMVM25Q100R5
	¾	175	VMVM25Q175GP	VMVM25Q175G241	VMVM25Q175G245	VMVM25Q175R5
	1½	70	VMVMJ070GP	VMVMJ070G241	VMVMJ070G245	VMVMJ070R5
	1½	100	VMVMJ100GP ✓	VMVMJ100G241 ✓	VMVMJ100G245 ✓	VMVMJ100R5 ✓
	1½	175	VMVMJ175GP ✓	VMVMJ175G241 ✓	VMVMJ175G245 ✓	VMVMJ175R5 ✓
	1½	70	VMVMP070GP	VMVMP070G241	VMVMP070G245	VMVMP070R5
	1½	100	VMVMP100GP ✓	VMVMP100G241 ✓	VMVMP100G245 ✓	VMVMP100R5 ✓
	1½	175	VMVMP175GP ✓	VMVMP175G241 ✓	VMVMP175G245 ✓	VMVMP175R5 ✓

1.

Voltage Suffix	Standard Voltage Ballasts - 60Hz				CEC/CSA (cUL)	
	Multi Tap /MT	120V /120	480V /480	Tri Tap /TT	120V /120	
	CEC/CSA (cUL) - CWI Isolated Ballasts				EXPORT	
	208V CWI /208CWI	480V CWI /240CWI	600V CWI /600CWI	220V 60Hz /220	220V 50Hz /220 50	230V 50Hz /230 50
						240V 50Hz /240 50

2. Options - Add the required options suffixes from page 718, In Alpha-numeric order.

3. 70W Ballast not available in 480V.

✓ - available with Lightning Service™ delivery. See Section G for complete details.

3L










100-175W Mercury Vapor VMV Series

Champ® H.I.D. Luminaires

- Cl. I, Div 2, Groups A, B, C, D
- Restricted Breathing Cl. I, Div 2 & Zone 2 (Suffix S826)
- Certified for IEC Zone 2 (Suffix S826TB)
- Marine & Wet Locations
- 3, 3R, 4, 4X; IP66

See Notes 1 (to specify voltage) and 2. For guards and other optics see VMV Luminaires – Ordering by Components section.

BASIC CATALOG NUMBER

Mounting Style	Hub Size	Lamp Watts	With G24 Globe and P21 Guard	With G241 Type I Compact Refractor	With G245 Type V Compact Refractor	With R5 Glass Refractor	
	Pendant Mount	3/4	100	VMVC2A100GP ✓	VMVC2A100G241 ✓	VMVC2A100G245 ✓	VMVC2A100R5 ✓
		1		VMVC3A100GP ✓	VMVC3A100G241 ✓	VMVC3A100G245 ✓	VMVC3A100R5 ✓
		3/4	175	VMVC2A175GP ✓	VMVC2A175G241 ✓	VMVC2A175G245 ✓	VMVC2A175R5 ✓
		1		VMVC3A175GP ✓	VMVC3A175G241 ✓	VMVC3A175G245 ✓	VMVC3A175R5 ✓
	Flexible Pendant Mount	3/4	100	VMVC2HA100GP ✓	VMVC2HA100G241 ✓	VMVC2HA100G245 ✓	VMVC2HA100R5 ✓
		3/4	175	VMVC2HA175GP ✓	VMVC2HA175G241 ✓	VMVC2HA175G245 ✓	VMVC2HA175R5 ✓
	Ceiling Mount Thru-Feed	3/4	100	VMVC2C100GP ✓	VMVC2C100G241 ✓	VMVC2C100G245 ✓	VMVC2C100R5 ✓
		1		VMVC3C100GP ✓	VMVC3C100G241 ✓	VMVC3C100G245 ✓	VMVC3C100R5 ✓
		3/4	175	VMVC2C175GP ✓	VMVC2C175G241 ✓	VMVC2C175G245 ✓	VMVC2C175R5 ✓
		1		VMVC3C175GP ✓	VMVC3C175G241 ✓	VMVC3C175G245 ✓	VMVC3C175R5 ✓
	Wall Mount Thru-Feed	3/4	100	VMVC2TW100GP ✓	VMVC2TW100G241 ✓	VMVC2TW100G245 ✓	VMVC2TW100R5 ✓
		1		VMVC3TW100GP ✓	VMVC3TW100G241 ✓	VMVC3TW100G245 ✓	VMVC3TW100R5 ✓
		3/4	175	VMVC2TW175GP ✓	VMVC2TW175G241 ✓	VMVC2TW175G245 ✓	VMVC2TW175R5 ✓
		1		VMVC3TW175GP ✓	VMVC3TW175G241 ✓	VMVC3TW175G245 ✓	VMVC3TW175R5 ✓
	Quad-Mount Pendant, Adjustable Thru-Feed, 25° Angle, 12 1/2° Angle	3/4	100	VMVC25Q100GP	VMVC25Q100G241	VMVC25Q100G245	VMVC25Q100R5
		3/4	175	VMVC25Q175GP	VMVC25Q175G241	VMVC25Q175G245	VMVC25Q175R5
	Stanchion Mount 25° Angle	1 1/2	100	VMVCJ100GP ✓	VMVCJ100G241 ✓	VMVCJ100G245 ✓	VMVCJ100R5 ✓
		1 1/2	175	VMVCJ175GP ✓	VMVCJ175G241 ✓	VMVCJ175G245 ✓	VMVCJ175R5 ✓
	Stanchion Mount Straight	1 1/2	100	VMVCP100GP ✓	VMVCP100G241 ✓	VMVCP100G245 ✓	VMVCP100R5 ✓
		1 1/2	175	VMVCP175GP ✓	VMVCP175G241 ✓	VMVCP175G245 ✓	VMVCP175R5 ✓

1.

Voltage Suffix	Standard Voltage Ballasts - 60Hz			CEC/CSA (cUL)	
	Multi Tap /MT	120V /120	480V /480	Tri Tap /TT	120V /120
	Optional Voltage Ballasts - 50 or 60Hz				
	EXPORT				
Voltage Suffix	220V 60Hz /220	220V 50Hz /220 50	230V 50Hz /230 50	240V 50Hz /240 50	

2. Options - Add the required options suffixes from page 724, in Alpha-numeric order.
 ✓ - available with Lightning Service™ delivery. See Section G for complete details.

3L H.I.D. Lighting

VMV luminaires are available in components.

A complete luminaire consists of:

- I. Champ Cover (Mounting Module)
- II. VMV Ballast Housing - Include voltage and required option(s)
- III. Optical & Guard components - Globe, Reflector, Refractor, Guard

I. Champ Cover (Mounting Module)

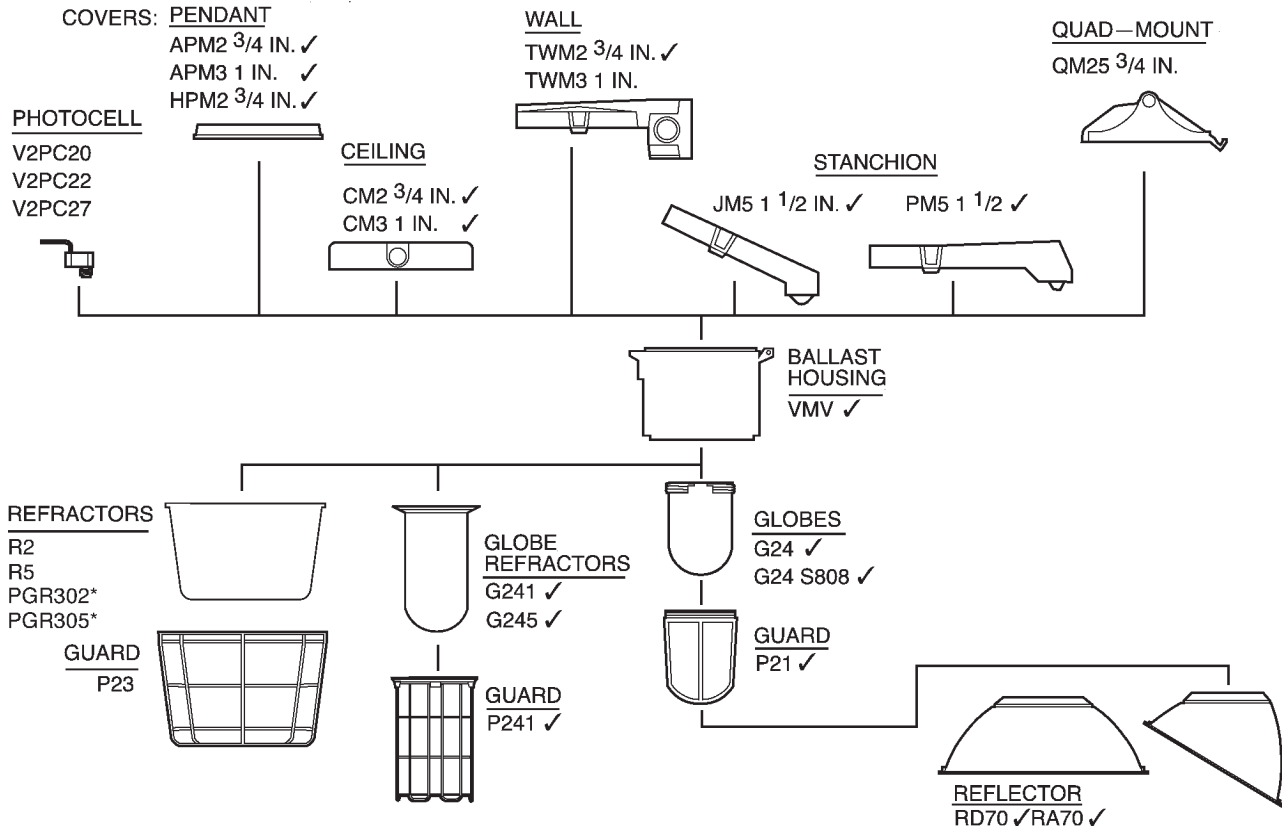
Type	Conduit	Cat. No.
Pendant	3/4	APM2
	1	APM3
Flexible Pendant	3/4	HPM2
Ceiling	3/4	CM2
	1	CM3
Wall	3/4	TWM2
	1	TWM3
Stanchion - 25 Degree Angle	1 1/2	JM5
Stanchion - Straight	1 1/2	PM5
Quad-Mount	3/4	QM25

II. Ballast Housings. Complete catalog number must have the **voltage suffix** (MT shown) and any **options suffixes**.

Lamp Type	Lamp Watts	Cat No.	
		For Globe and Compact Refractor	For Large Refractor
High Pressure Sodium	50	VMVS050/MT	VMVS050/MT-RM
	70	VMVS070/MT	VMVS070/MT-RM
	100	VMVS100/MT	VMVS100/MT-RM
	150	VMVS150/MT LX	VMVS150/MT LX-RM
Metal Halide	70	VMVM070/MT	VMVM070/MT-RM
	100	VMVM100/MT	VMVM100/MT-RM
	175	VMVM175/MT	VMVM175/MT-RM
Mercury Vapor	100	VMVC100/MT	VMVC100/MT-RM
	175	VMVC175/MT	VMVC175/MT-RM

III. Globe, Reflectors, Refractors, Guards

Type	Cat. No.
Globe	G24
Globe - Teflon Coated	G24-S808
Globe Guard	P21
Reflector - Dome	RD70
Reflector - Angle	RA70
Compact Refractor Type 1	G241
Compact Refractor Type 5	G245
Compact Refractor Guard	P241
Large Refractor Type 2	R2
Large Refractor Type 5	R5
Large Refractor Guard	P23
Large Plastic Refractor Type 2	PR2
Large Plastic Refractor Type 3	PR3
Large Plastic Refractor Type 5	PR5



✓ - available with Lightning Service™ delivery. See Section G for complete details.
 * Plastic refractors are for non-hazardous areas only (50-100W Max.)

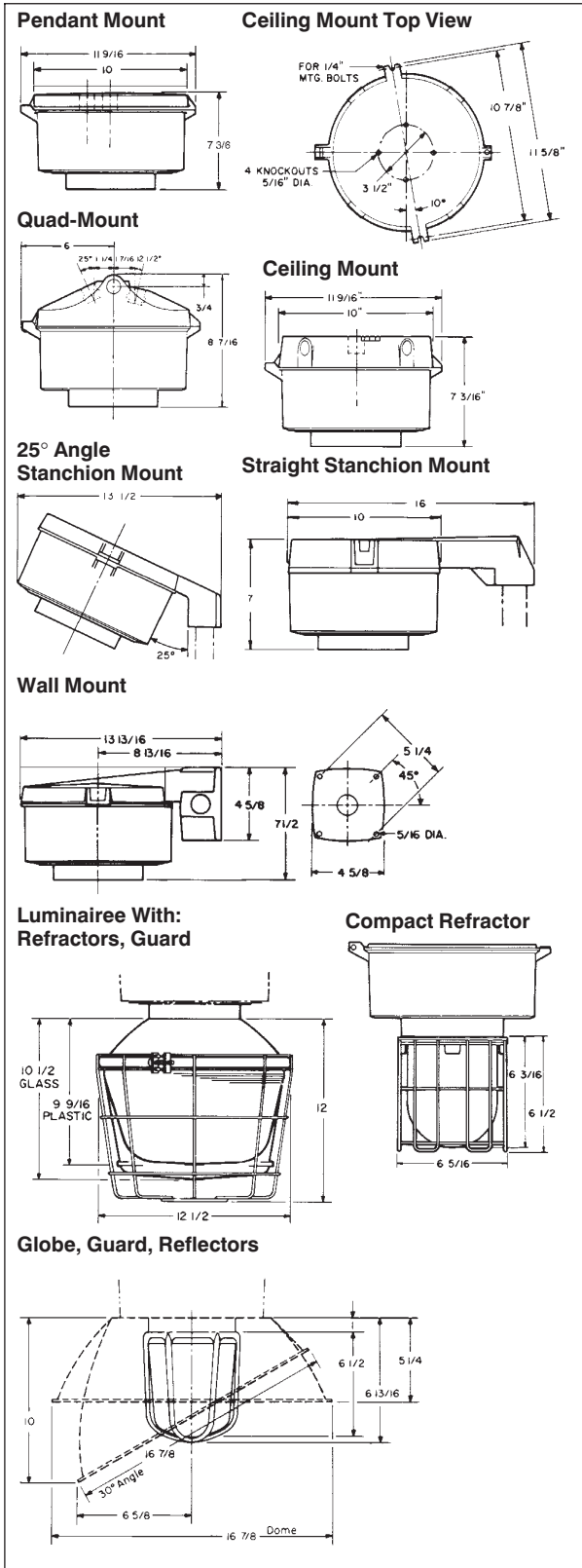
Cat. No.	LAMP		RATED AMBIENT °C	CLASS I, DIVISION 2				CLASS II, DIVISION 1	Simultaneous Presence Class I, Div. 2 Class II, Div.2	CLASS I, ZONE 2		SUPPLY WIRE SUITABLE FOR °C	
	Wattage	Type		Globe (G24) w/ Reflector (RA70 or RD70)		Reflector (G241 or G245)	Group	Globe (G24) w/ or w/o Reflector (RA70 or RD70)		Restricted Breathing Suffix S826 w/ Globe (G24)	Factory Sealed Suffix S865 AEx nA nR II	Globe (G24)	Reflector (G241 or G245)
				Globe (G24)	Reflector (RA70 or RD70)								
VMVC100-S712	100	MV	40	T2B	T2B	—				T4	T3	75	—
VMVC100	100	MV	40	—	—	—				T4	T3	75	75
VMVC175	175	MV	40	T2	T2	T2B				T3	T3	90	85
VMVM70	70	MH	40	T3A	T3A	T3A				T5	T3	90	90
VMVM70	70	MH	55	T3	T3	T3				T4	T3	90	90
VMVM70	70	MH	65	T3	T3	T3				T4	T3	90	90
VMVM100	100	MH	40	T2D	T2D	T2D				T4	T3	90	90
VMVM100-S849	100	MH	40	T2	T2	T2				T4	T3	75	75
VMVM100	100	MH	55	T2D	T2D	T2D				T4	T3	90	90
VMVM150	150	MH	40	T2A	T2A	T2B				T3	T3	90	90
VMVM175	175	MH	40	T2A	T2A	T2B				T3	T3	90	90
VMVS50	50	HPS	40	T3A	T3A	T3B	EFG	T4A	T3A	T5	T3	75	65
VMVS50	50	HPS	55	T3A	T3A	T3A	EFG	T4	T3	T5	T3	75	75
VMVS50	50	HPS	65	T3	T3	T3	EFG	T4	T2D	T5	T3	75	75
VMVS70	70	HPS	40	T3	T3	T3B	EFG	T3C	T2C	T4	T3	75	65
VMVS70	70	HPS	55	T3	T3	T3	EFG	T3C	T2B	T4	T3	90	90
VMVS100	100	HPS	40	T2C	T2C	T2D	EFG	T3A	T2A	T4	T3	90	75
VMVS100	100	HPS	55	T2B	T2B	T2C	EFG			T3	T3	105	90
VMVS150	150	HPS	40	T2A	T2A	T2B				T3	T3	90	85
VMVS150	150	HPS	55	T2	T2	T2A				T3	T3	105	105
VMVIG055	55	Induction	40	T2C	T2C	—				T6	—	65	—
VMVIG055	55	Induction	55	T2C	T2C	—				T5	—	65	—

The Class I, Division 2 T-codes apply to luminaires without the restricted breathing (S826) or factory sealed (S865) options. These luminaires are listed to UL 844. UL 844 specifies how the temperatures are measured.

The Class I, Zone 2 T-codes are for luminaires that are additionally listed to UL 60079-15 that specify a different method for measuring temperatures. Since NEC® 501.1 states that equipment "...for use in Class I, Zone 0, 1 or 2 locations shall be permitted in Class I, Division 2 locations..." then these luminaires are suitable for Class I, Division 2 but with lower temperature ratings. They also have the advantage of meeting the more rigorous mechanical tests of UL 844.

3L 50-175W VMV Series Champ® H.I.D. Luminaires

Dimensions and Weights



Net Luminaire Weights (lbs.):

Luminaire Series	Lamp Watts				
	50	70	100	150	175

Luminaire with Globe, Guards (lbs):

VMVS	13 1/2	14 1/2	14 1/2	14 1/2	
VMVC			13 3/4		15 1/2
VMVM		13	13 3/4		15 1/2

Luminaire with Glass Refractor (lbs):

VMVS	21 3/4	22 3/4	22 3/4	22 3/4	
VMVC			21 1/2		23 3/4
VMVM		21	21 1/2		23 3/4

Add for mounting modules (lbs):

Pendant	1 1/4		Quad-Mount	3 1/2
Flexible Pendant	1 1/2		Angle Stanchion	3 1/2
Ceiling	2 3/4		Straight Stanchion	4 1/2
Wall	4 1/2			

Add for reflectors (lbs):

Dome	1 1/2		30° Angle	1 1/2
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Deduct: 1/2 lb. for fixture without P21 Guard