

V-51™ Incandescent Luminaires

Enclosed and Gasketed. UNILETS® for use with threaded metal conduit.
Hazardous Location. Suitable for use in wet locations. ①

NEC: Class I, Division 2, Groups A, B, C, D
CEC: Class I, Division 2, Groups A, B, C, D | Class II, Divisions 1 and 2, Groups E, F, G ② | Class III | Enclosure 3R

Applications

- Enclosed and gasketed lighting fixtures for use in storage areas, tunnels, subways, chemical plants and other areas where moisture, dirt or corrosive atmospheres are a problem.
- Suitable for use in wet locations.
- Standard fixtures designed for 60 to 300 W medium base incandescent lamps.
- Available in pendant, 45° stanchion, and a variety of ceiling and wall mountings.

Features

- Furnished with connection block for easy wiring.
- Unitized construction reduces installation and maintenance costs.
- Shock-absorbing porcelain socket for longer lamp life.
- Neoprene rubber ring in neck of reflector snaps into groove of mounting hood – protects against vibration and chipping.
- Guard snaps into two recesses of adapter – no clamps or setscrews.

Standard Materials

- Mounting hoods: malleable iron
- Globe adapters: malleable iron
- Socket: porcelain with brass screw shell
- Globes: glass. Optional globes in polycarbonate plastic 100 W Max
- Guards: steel

Standard Finishes

- Malleable iron mounting hood and globe adapter: triple coat – (1) zinc electroplate, (2) chromate, and (3) epoxy powder coat
- Steel guard: zinc electroplate
- Socket and globes: natural finish

Options

- To order fixture with other than standard clear glass globe, add suffix letters to catalog number as indicated in table, and adjust difference in price.

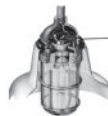
Color	Glass Globe	Plastic Globe
Amber	-AM	-PAM
Blue	-BL	—
Green	-GR	-PGR
Red	-RE	-PRE
Clear Heat-Resistant	-HR	—

NEC/CEC Certifications and Compliances

- UL Standard: UL 1598, UL 844
- UL Listed: E10444
- CSA Standard: C22.2 No. 250, C22.2 No. 137
- CSA Certified: 025428



Illustrated Features



Cut-Away View

Connection block is easily removed (loosen two screws) to permit quick wiring.



Mounting Hood

Available in pendant (shown), ceiling, wall and 45° stanchion. Pendant has setscrew to prevent fixture from turning on stem.

Neoprene Ring

Neoprene attachment ring secures reflector to mounting hood – no tools needed.

Globe Adapter

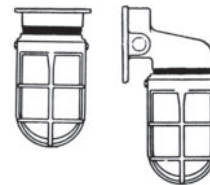
When adapter is threaded onto mounting hood, the socket makes electrical contact with connection block in mounting hood. Available in malleable iron (VAD-1M and VAD-2M)



Guard

Two sealed ball plunger units snap quickly, easily and securely into cavities of globe adapter. Guard can be used with or without a reflector.

Guard



① With heat-resistant glass globes or plastic globes.

② 300 WPS-25 NOT approved for Class II, Division 1 and 2, Group G; Class III.

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

Fixture is suitable for Class I, Division 2 where the fixture operating temperature does not exceed the ignition temperature of the atmosphere in which fixture is installed.

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

Reflector	60-150 W	PS-25 150 W	200-300 W	PS-30 300 W
	A-21 100 W		PS-30 200 W	
None	T3	T2D	T2C	325

Ambient Temperature

°C	°F
40	104

“T” Numbers Represent the Maximum Lamp Temperature for Class I, Division 2 Locations

Supply Wire: 125 °C (257 °F)

“T” Number	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temperature Range (°C)	351-450	326-350	301-325	281-300	261-280	231-260	216-230	201-215	181-200	166-180	161-165	136-160	121-135	101-120	86-100	85
Temperature Range (°F)	664-842	619-662	574-617	538-572	502-536	448-500	421-446	394-419	358-392	331-356	322-329	277-320	250-275	214-248	187-212	185





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Malleable Mounting Hood, Adapter and Guard	Type	Lamp Watts	Size (Inches)	All Malleable with Guard ③
Pendant				
	A-21	60-150	1/2	VA1050G-M
			3/4	VA1075G-M
			1	VA1100G-M
			1-1/4	VA1125G-M
	PS-30	150-300	1/2	VA2050G-M
			3/4	VA2075G-M
			1	VA2100G-M
			1-1/4	VA2125G-M
Ceiling — Five Tapped Openings — Four close-up plugs				
	A-21	60-150	1/2	VXHA1050G-M
			3/4	VXHA1075G-M
			1	VXHA1100G-M
			1/2	VXHA2050G-M
	PS-30	150-300	3/4	VXHA2075G-M
			1	VXHA2100G-M
Wall — JB Box Mounting ④ — Fits JB cast outlet box ⑤ — Screws and gasket furnished with fixture				
	A-21	60-150		JBW10G-M
	PS-30	150-300		JBW20G-M
Ceiling — JB Box Mounting ④ — Fits JB cast outlet box ⑤ — Screws and gasket furnished with fixture				
	A-21	60-150		JB10G-M
	PS-30	150-300		JB20G-M

① With heat-resistant glass globes or plastic globes.
② 300 W PS-25 not approved for Class II, Division 1 and 2, Group G; Class III.
③ To order fixtures without guards, omit -G suffix from catalog number. Order reflectors and accessories separately.
④ 30° angle reflector adaptable for 100 W fixture only, when mounted at least 114.3 mm (4.5") from wall.
⑤ JB cast outlet box is available in the Fitting Section.

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Description	Hub Size (Inches)	Catalog Numbers — Malleable Iron
Pendant and Ceiling Mounting Hoods — Furnished with connection block, gasket and screws		
Pendant Mounting		
	1/2	VA50
	3/4	VA75
	1	VA100
	1-1/4	VA125
Dead-End — Ceiling Mounting		
	1/2	V50
	3/4	V75
Feed-Thru — Ceiling Mounting		
	1/2	VC50
	3/4	VC75
Three Hubs — Ceiling Mounting		
	1/2	VT50
	3/4	VT75
Four Hubs — Ceiling Mounting		
	1/2	VX50
	3/4	VX75
Five Hubs — Ceiling Mounting ③		
	1/2	VXHA50
	3/4	VXHA75
	1	VXHA100
Wall and Stanchion Mounting Hoods — Furnished with connection block, gasket and screws		
One Opening — Wall Mounting ④ — 1 tapped hole in center of flange		
	1/2	VGA50
	3/4	VGA75
Feed-Thru — Wall Mounting ④ — 2 tapped vertical feed-thru hubs		
	1/2	VD50
	3/4	VD75
Three Hubs and One Opening — Wall Mounting ④ — 3 hubs plus 1 tapped opening in center of flange		
	1/2	VGAT50
	3/4	VGAT75

① With heat-resistant glass globes or plastic globes.
② 300 W PS-25 not approved for Class II, Division 1 and 2, Group G; Class III.
③ Four close-up plugs furnished.
④ Mounting hoods for wall installations can only be used with 30° angle reflectors.

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Wall	Ceiling	Type	Catalog Numbers — Malleable Iron	
Wall and Ceiling Outlet Box Mounting Hoods				
SEH ③ and 3-1/4" or 4" Octagonal Outlet Box Mounting ④ for Non-Classified Areas Only				
		Wall ⑤		0BVW1
		Ceiling		0BV1
GS Round Base Outlet Box Mounting – Form 20 ③				
		Wall ⑤		GSW2
		Ceiling		GS2
JB Round Base Outlet Box Mounting ③				
		Wall ⑤		JBW1
		Ceiling		JB1
A21	PS30	Type	Lamp Watts	Catalog Numbers — Malleable Iron
Fixture Units				
Adapter/Socket, Globe and Guard				
		A21	60-150	VU100M
		PS30	150-300	VU200M
Adapter/Socket and Globe				
		A21	60-150	VU100MLG
		PS30	150-300	VU200MLG
Adapter/Socket				
		A21	60-150	VAD-1M ⑥
		PS30	150-300	VAD-2M ⑥

① With heat-resistant glass globes or plastic globes.

② 300 W PS-25 not approved for Class II, Division 1 and 2, Group G; Class III.

③ Cast outlet boxes and gaskets are available in the Fitting Section. Screws, gasket and adapter plate furnished with fixture mounting hood.

④ Octagonal outlet boxes are available in the Commercial Fitting Section. Screws, gasket and adapter plate furnished with fixture mounting hood.




⑤ Mounting hoods for wall installations can only be used with 30° angle reflectors.

⑥ Accepts steel wire guard only.

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	Type	Lamp Watts	Catalog Numbers
Glass Globes			
	Clear	60-150	VGL-1CL
	Amber	60-150	VGL-1AM
	Blue	60-150	VGL-1BL
	Green	60-150	VGL-1GR
	Opal	60-150	VGL-1OP
	Red	60-150	VGL-1RE
	Clear Heat-Resistant	60-150	VGL-1HR
	Clear	150-300	VGL-2CL
	Amber	150-300	VGL-2AM
	Blue	150-300	VGL-2BL
	Green	150-300	VGL-2GR
	Opal	150-300	VGL-2OP
	Red	150-300	VGL-2RE
	Clear Heat-Resistant	150-300	VGL-2HR
Polycarbonate Globes ③ ⑦			
	Clear	150 Max.	VPG-1CL
	Amber	150 Max.	VPG-1AM
	Green	150 Max.	VPG-1GR
	Red	150 Max.	VPG-1RE
Steel Wire Guards ④			
 VWG-1	A21 ⑤	60-150	VWG-1
	PS30 ⑥	150-300	VWG-2


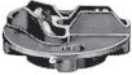




① With heat-resistant glass globes or plastic globes.
 ② 300 WPS-25 not approved for Class II, Division 1 and 2, Group G; Class III.
 ③ Do not use in ambients exceeding +25° C (+77 °F). For burning in base-up position only.
 ④ Cannot be used with polycarbonate globes.
 ⑤ Fits VAD-1M Adapter
 ⑥ Fits VAD-2M Adapter
 ⑦ The V-51 series is not UL certified for use with polycarbonate globes.

Incandescent Luminaires | Area / Task | Hazardous Location | NEC/CEC

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Description	Type	Catalog Number
Replacement Reflector Attaching Ring — Neoprene		
		VPT-8
Connection Block		
		VPT-7
Lamp Socket — Medium Base		
		VPT-1AV
Gasket for Lamp Socket and 60-150 W Globe		
		VPT-2
Gasket for 150-300 W Globe		
		VPT-3
Gasket for Mounting Hood		
		VPT-4

① With heat-resistant glass globes or plastic globes.

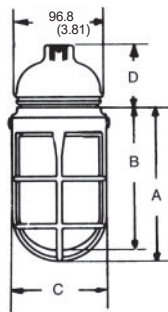
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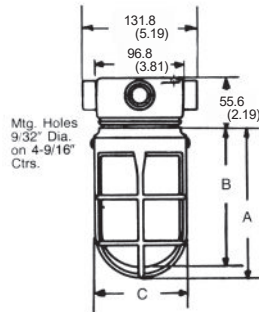
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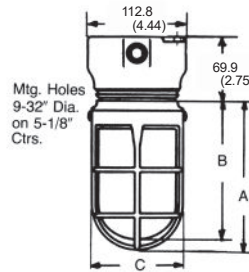
Dimensions in Millimeters (Inches)



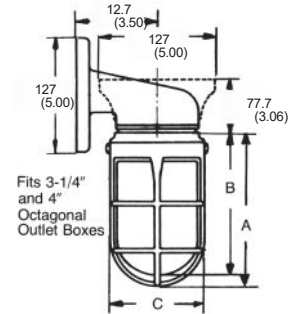
Type VA



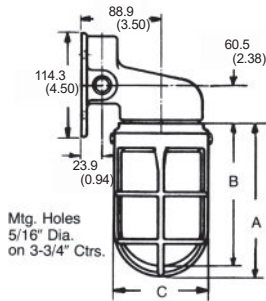
Types V, VC, VT and VX



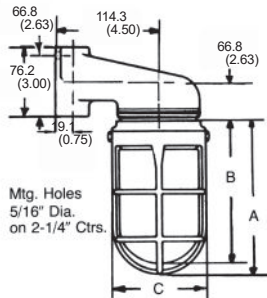
Type VXHA



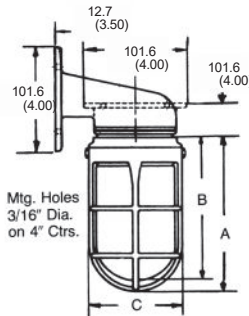
Types OBV and OBWV



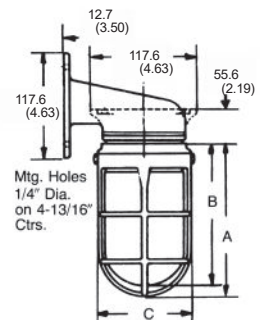
Types VGA and VGAT



Type VD



Types JB and JBW



Types GS and GSW

Size	A	B	C	1/2 and 3/4 D	1 and 1-1/4 D
60-150 W	162.1 (6.38)	146.1 (5.75)	106.4 (4.19)	66.8 (2.63)	73.4 (2.89)
150-300 W	241.3 (9.50)	219.2 (8.63)	144.5 (5.69)	66.8 (2.63)	73.4 (2.89)

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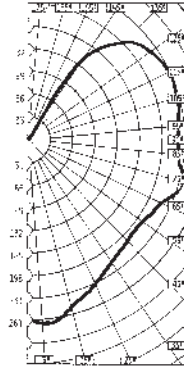
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Photometric Data

WITHOUT REFLECTOR



EFFECTIVE FLOOR CAVITY REFLECTANCE (RFC) IS 20%

	% Ceiling Rcc	80			70			50			30			10			0
		Rw	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
ROOM CAVITY RATIOS	1	.815	.765	.721	.755	.711	.668	.642	.608	.577	.539	.513	.489	.444	.424	.406	.360
	2	.690	.619	.558	.639	.575	.521	.542	.492	.449	.452	.414	.380	.370	.341	.315	.273
	3	.595	.515	.450	.551	.478	.421	.467	.410	.362	.388	.344	.307	.316	.282	.252	.215
	4	.523	.439	.374	.485	.409	.350	.411	.351	.303	.343	.296	.257	.279	.242	.212	.178
	5	.457	.376	.313	.426	.350	.292	.362	.300	.254	.302	.253	.215	.246	.208	.177	.147
	6	.409	.326	.266	.378	.303	.248	.322	.261	.215	.269	.220	.183	.220	.180	.150	.123
	7	.364	.283	.229	.338	.264	.213	.288	.226	.184	.240	.192	.155	.198	.158	.128	.104
	8	.329	.251	.197	.305	.234	.185	.260	.202	.160	.220	.171	.136	.179	.141	.112	.090
	9	.298	.223	.171	.277	.208	.161	.237	.180	.140	.199	.152	.119	.164	.126	.098	.078
	10	.271	.198	.152	.251	.187	.142	.216	.161	.123	.182	.137	.104	.151	.113	.086	.068

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